OVERSIZE PAGES

LOCATED AT

END OF

DOCUMENT

EG&G MOUND-25-02-10-02--9602280069

Environmental Restoration Program

OPERABLE UNIT 5
OPERATIONAL AREA PHASE I INVESTIGATION
AREA 7 FIELD REPORT

MOUND PLANT
MIAMISBURG, OHIO

VOLUME II - APPENDICES A-G

June 1995

Final (Revision 0)

U.S. Department of Energy
Ohio Field Office

EG&G Mound Applied Technologies

APPENDIX A
FIELD LOGBOOKS

A.1 FIDLER LOGBOOK
A.2 SITE MANAGER LOGBOOK
A.3 SOIL GAS LOGBOOK
A.4 SOIL BORING LOGBOOKS
A.5 SAMPLE MANAGER LOGBOOK

PLATE 1: Mound Plant OU5 Phase 1 RI/FS Operational Area, Locations of Areas of Concern

A.1 FIDLER LOGBOOK

E696 MOUND

OUS OPS AREA

PHASE I

FIDLER

LOGBOOK

AOC 7

AOC 13

BLDG 61

AOC FIDLER SURVEY LOG BOOK

PROJECT TITLE: EG&G MOUND OU5 OPERATIONAL AREA PHASE 1 RI/FS FIELD INVESTIGATIONS

WORK SITE: *MOUND PLANT*
Miamisburg, Ohio
OU5 Operational Area

ACTIVITY: *Mound OU5 Operational Area Phase 1 RI/FS Field Investigations*

CONTRACT #: *BOA 52264*
TASK ORDER: *34896*

PROJECT MANAGER: *Thomas Tank*
COMPANY NAME / ADDRESS: *Science Applications International Corporation*
4031 Colonel Glenn Hwy ,Dayton, Ohio 45431
TELEPHONE NUMBERS: *(513) 429-2699*

SUPERVISORS: *OU5 Manager: Alan Spesard (513)865-3859*
SAIC Proj. Manager: Thomas Tank (513)429-2699

EMERGENCY RESPONCE: *Police / Ambulance / Fire 911 or 865-4040*

PROCEDURES: *SOP 1.1, SOP 6.7*

START DATE: 7-5-1994
END DATE: 7-26-1994

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Pg I

FIDLER

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1

PROJECT NO: 34896

PAGE	FIELD LOG	PAGE	FIELD LOG
1	AOC7 Activity Log Sheet - 7-14-94	31	No Entry
2	AOC7 " " " - 7-19-94	32	
3	AOC7 " " " - 7-20-94	33	
4	AOC7 " " " - 7-21-94	34	
5	AOC7 " " " 7-25-94	35	
6	AOC7 " " " 7-26-94	36	
7	No Entry	37	
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9		39	
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11		41	
12		42	
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14		44	
15		45	
16		46	
17		47	AOC7 Fidler Measurement Data - 7-14-94 7-19-94
18		48	AOC7 " " " 7-20-94 - 7-21-94
19		49	AOC7 " " " 7-25-94 7-26-94
20		50	No Entry
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Pg II

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 PROJECT NO: 34896

PAGE	FIELD LOG	PAGE	FIELD LOG
61	No Entry	91	AOC 7 FIDLER READINGS
62		92	
63		93	
64		94	
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77	AOC 7 Fidler Readings -	107	
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PS III

FIDLER

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1

PROJECT NO: 34896

PAGE	FIELD LOG	PAGE	FIELD LOG
121	AOC7 FIDLER READINGS	151	AOC7 FIDLER READINGS
122		152	
123		153	
124		154	
125		155	
126		156	
127		157	
128		158	
129		159	
130		160	
131		161	Blank Page
132		162	AOC ACTIVITY LOG SHEET 13 - 7-21-94
133		163	AOC 13 " " " - 7-25-94
134		164	No Entry
135		165	
136		166	
137		167	
138		168	
139		169	
140 ~~140a~~		170	
141		171	
142		172	~~AOC 13 Measurement Data~~ 7/26 SB - ~~7-21-94~~ No Entry DCK 7-26 ~~7/25 SB~~
143		173	No Entry
144		174	AOC 13 Measurement Data - 7-21-94 7-25-94
145		175	No Entry
146		176	
147		177	
148		178	
149		179	
150		180	

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PS IV

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 PROJECT NO: 34896

PAGE	FIELD LOG	PAGE	FIELD LOG
181	No Entry	211	No Entry
182	AOC 13 ~~+~~ Fidler Readings DCIC 1/17/94	212	
183	AOC 13 Fidler Readings - "	213	
184		214	
185		215	
186		216	FIDLER READINGS Building 61 7-5-94
187		217	" " " "
188		218	" " " "
189		219	" " " "
190		220	" " " "
191		221	" " " "
192		222	" " " "
193		223	" " " "
194		224	" " " "
195		225	" " " "
196		226	" " " "
197		227	" " " "
198		228	" " " "
199		229	No Entry
200		230	No Pages
201		231	
202	BUILDING 61 ACTIVITY LOG SHEET 7-5-94	232	
203	No Entry	233	
204		234	
205		235	
206		236	
207		237	
208		238	
209		239	
210	Building 61 Measurement Data 7-5-91	240	

TABLE OF CONTENTS FIDLER

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 PROJECT NO: 34896

PAGE	FIELD LOG	PAGE	FIELD LOG
241	No Pages	271	No Pages
242		272	
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270		300	

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PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 PROJECT NO: 34896

PAGE	FIELD LOG	PAGE	FIELD LOG
301	No Pages	331	No Pages
302		332	
303		333	
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310		340	
311		341	
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PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 PROJECT NO: 34896

PAGE	FIELD LOG	PAGE	FIELD LOG
361	No Pages	391	No Pages
362		392	
363		393	
364		394	
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369		399	
370		400	
371		401	
372		402	
373		403	
374		404	
375		405	
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377		407	
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379		409	
380		410	
381		411	
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387		417	
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390		420	

TABLE OF CONTENTS FIDLER

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 PROJECT NO: 34896

PAGE	FIELD LOG	PAGE	FIELD LOG
421	No Pages	451	No Pages
422		452	
423		453	
424		454	
425		455	
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427		457	
428		458	
429		459	
430		460	
431		461	
432		462	
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450		480	

TASK TEAM ACTIVITY LOG SHEET PG 1 FIDLER: ADC 7

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 TASK NO.: 34896

Date (mm/dd/yy): 7-14-94 TIME: 8 : 20 PAGE 1 OF 1

Task Team Members:

SALLY BROWN
CRAIG PATTERSON
Chris Haley

Narrative (include time and location):

STD BKGD CHK - NEAR N17 BATT - 92% HV - 1.22

CH1 - ~~[illegible]~~, 150, 145, 135, 135, 120 - 185 ×5 - 137 ×3 = ~~411 + 137 = 781~~ 137 + 35.11 = 172.1 gH 9/15/95 3 s.d = 35.11

Pu^{238} - 14000 Th - 1650

CH2 - 9.0, 9.0, 9.0, 9.0, 9.0 - $\bar{x}$ = 9.0 ×3 ~~270 + 9.0 = 11.70~~ gH 9/21/95 3 x s.d = 9 gH 9/21/95 9 + 9 = 18

Pu^{238} - 7.5 Th - 24.0 $\bar{x}$ = 9000 sd = 94.8 x 3 = 284 + 9000 = 9284 ≈ 9.3

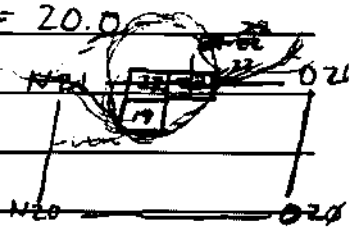
Out - 10.0, 10.0, 10.0, 10.0, 10.0 - $\bar{x}$ = 10.0 ×3 sd. = 3.16 ~~3.0 + 10.0 = 13.0~~ gH 9/21/95 3 x s.d = 9.48 10 + 9.48 = 19.48 gH 9/21/95

$\bar{x}$ = 10,000 sd = 100 x 3 = 300 + 10000 = 10300 ≈ 10.3 kcpm

SB 7-14-94 N20-23 - 9:35 - Spot is highest in the center of this block,

SB 7-14-94, block 23 - out = 22, Ch1 = 250, Ch2 = 20.0

25 ft diameter



Found epicenter outside of Area 7 highest reading - out = 35.0
Ch1 = 375
Ch2 = 37.0

Spot radiates out to the southeast of beyond AOC 7.
most of the spot is outside of the AOC.

90 ft east 10ft ~~South~~ SB 7-14-94 West 25ft North

SBB 8-15-94 10:30 - Chris Haley TAKES OVER FOR SALLY, ~~THE~~ SHE 8/15/94 GOES TO THE OFFICE 25ft South

14:30 7Q20-16 OUT - 16.0 CH1 - 130 CH2 - 14.5 3 NE

AT BOTOM OF DITCH NW QUADRANT

1700 - GO IN TO TRAILER

Daily Weather Conditions: A.M. Cool, Cloudy, Wet grass

P.M. Cloudy, 85°F, Humid.

Recorded By Sally Brown Craig Patterson QA Checked By [illegible]

2

TASK TEAM ACTIVITY LOG SHEET — FIDLER

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 — PG 2 — AOC 7 — TASK NO.: 34896

Date (mm/dd/yy): 7-19-94 TIME: 8 : 05 PAGE 1 OF 1

Task Team Members:

Sally Brown
Craig Patterson

Narrative (include time and location):

STD BKGD CHK -8:05 NEAR D-3 BATT - ~~82%~~ 86% SB 7-19-94 HV - 1.21

CH1 - 130, 140, 130, 160, 140 - 700 ÷5 = 140 ×3 = ~~420 + 140 = 182.0~~ GH 6/27/95 sd = 11.8 3×sd = 35.4 x̄ = 175.4 JB

Th - 1400 Pu 238 - 1400

CH2 - 8.0, 8.5, 8.0, 8.5, 8.0 - 41 ÷5 = 8.2 ×3 = ~~24.6 + 8.2 = 10.66~~ GH 4/27/95 sd = 2.86 GH 3×sd = 8.5 8.2 + 8.5 = 16.78 GH 6/1/95

Th - 24.0 Pu 238 - 7.0 x̄ = 8200 sd = 90.5 × 3 = 271.5 + 8200 = 8471 ≈ 8.5 Kcpm

Out - 9.0, 9.0, 9.0, 9.0, 9.0 - 45.0 ÷5 = 9.0 ×3 = ~~27.0 + 9.0 = 11.7~~ GH 4/27/95 3×sd = 14.4 9 + 14.4 = 18 GH

x̄ = 9000 sd = 94.8 × 3 = 284.4 + 9000 = 9284.4 ≈ 9.3 Kcpm

7:50 - trailer - given permission by Keith MacMahan to go ahead and use FIDLER #2, even though it is past the next calibration date of 7-18-94. Keith is looking for a different FIDLER to use.

1240 - F8 - find high levels in the serpentine CH1 - 340

epicenter is in SW corner of box 2 — SB 7-19-94 NW SW corner of 2 CH2 - ~~6.8~~ 6.0 SB 7-19

(from epicenter 5ft North, ~~1ft~~ 2ft East SB 7-19-94, ~~2ft~~ 10ft West SB 7-19-94, 5ft South) OUT - 65

- possibility of radiation from boring being ~~dug~~ drilled SB 7-19-94 that we are next to, except the level readings go down as you move toward the fenced in drilling area

8:30 - START TAKING READINGS EASY TO SERPENTINE

11:30 - LUNCH 12:10 - BACK TO SITE START READINGS.

17:00 - GO IN TO TRAILER FOR THE DAY

Daily Weather Conditions: A.M. Sunny, wet grass, hot

P.M. Hot, humid, sunny

Recorded By Sally A Brown QA Checked By [signature]

3

TASK TEAM ACTIVITY LOG SHEET PG 3 FIDLER ADC 7

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 TASK NO.: 34896

Date (mm/dd/yy): 7-20-94 TIME: 7 : 00 PAGE 1 OF 1

Task Team Members:

Sally Brown
Craig Patterson

Narrative (include time and location):

7:00 - get new FIDLER from Keith MacMahan. (FIDLER #1)
NaI PROBE # 3713 RATEMETER/SCALER # 3712.
FIDLER #2 has been taken to get calibrated.

STD BKGD CHK - NEAR I 12 - 7:53

CH 1 - 140, 140, 110, 130, 120 - 640 ÷5 = 128 ×3 ~~384 + 128 = 1606.4~~ JH 4/27/95 sd = 11.3 3xsd = 33.9 161.9

Pu^{238} 14,500 Th - 950

CH2 - 7.0, 7.0, 7.5, 7.0, 8.0 - 36.5 ÷5 = 7.3 ×3 ~~2.19 + 7.3 = 9.49~~ JH 4/27/95 ~~x̄ = 7300 sd = 85.4 x 3 = 256 + 7300 = 7556~~ 7.5 kcpm JH

Pu^{238} - 5.5 Th - 13.5 ~~x̄ = 7.3 sd = 2.9 3xsd = 8.1 7.3 + 8.1 = 15.4~~ JH 4/27/95

Out - 8.5, 8.5, 8.5, 8.5, 8.5 - 8.5 ×3 ~~= 25.5 ÷ 3 = 8.5~~ JH 4/27/95 11.05 ~~sd = 2.91 3xsd = 8.74 8.5 + 8.74 = 17.24~~ JH 4/27/95

x̄ = 8500 sd = 92 x 3 = 276 + 8500 = 8776 ≈ 8.8 kcpm

8:30 - START TAKING READINGS. SERPENTINING IS EASY. SOME IN THE ROAD.

12:00 - GO IN ~~FOR~~ TO TRAILER, FOR LUNCH SB 8-6-94

12:50 - DECIDE IT IS TOO HOT & HUMID TO BE IN THE SUN ON THE ASPHALT SO WE GO TO AREA 3 (WOODED, SHADED SECTION)

Daily Weather Conditions: A.M. humid, hot, sunny

P.M.

Recorded By Sally Brown QA Checked By Paul Rynski

4

TASK TEAM ACTIVITY LOG SHEET PG4 **FIDLER**

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 AOC 7 **TASK NO.: 34896**

Date (mm/dd/yy): 7-21-94 TIME: 7 : 12 PAGE 1 OF 1

Task Team Members:

Sally Brown
Craig Patterson

Narrative (include time and location):

7:12 STD BKGD CHK - BATT - 94% HV - 1.21 - NEAR M8

CH1 - 75, 110, 90, 110, 90 - 475 ÷5 = 95 ×3 = 255 + 95.0 = 120.5

Pu238 - 8500 Th - 1250

CH2 - 5.0, 4.5, 4.5, 4.0, 4.5 = 4.5 ×3 = 1.35 + 4.5 = 5.85

Pu238 - ~~15.5~~ SB 7-21-94 5.0 Th - 15.5

Out - 5.5, 5.5, 4.5, 5.0, 5.0 - 25.5 ÷5 = 5.1 ×3 = 1.53 + 5.1 = 6.63

NOT USED SB 7/21/94

7:30 - 8:15 - downtime - waiting for security guard

8:20 NEW BKGD CHK - IN GRASS - 1st one too low

CH1 - 140, 145, 130, 135, 120 = 670 ÷5 SB 7-21-94 = ~~134~~ = ~~134~~ ×3 = ~~402~~ GH 4/25/95 = 124 = 172.2 8 = 134 sd = 11.57 3xsd = 34.7 168.72

CH2 - 7.5, 8.0, 10.0, 8.0, 7.5 - 41.0 ÷5 = ~~8.2~~ ×3 = GH 4/27/95 ~~24.6~~ + 8.2 = 10.09 8 = 8.2 3xsd = 8.59 sd = 2.86 8.59 + 8.2 = 16.7

OUT - 8.5, 8.5, 8.0, 8.0, 8.5 - 41.5 ÷5 = 8.3 ×3 = GH 4/27/95 24.9 + 8.3 = 10.79 sd = 2.88 3xsd = 8.64 8.3 + 8.64 = 16.94 GH 6/1/95

9:50 - Start taking readings. many plots are split by a wall. GET READINGS ON BOTH SIDES OF THE WALL.

10:25 - finish work in the area. Go to AOC 13, but will get a missed Non AOC reading first.

CH2 CC: $\bar{x}$ = 8200
sd = 90.5
sd x 3 = 271.5 + 8200
= 8471 cpm ≈ 8.5 kcpm GH 6/1/95

Out CC: $\bar{x}$ = 8300
sd = 91 x 3 = 273
273 + 8300 = 8573 cpm
≈ 8.6 kcpm

Daily Weather Conditions: A.M. cool; wet grass
P.M. warm, humid, sunny

Recorded By Sally A Brown QA Checked By [illegible]

5

TASK TEAM ACTIVITY LOG SHEET PG5 **FIDLER** ADC 7

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 **TASK NO.: 34896**

Date (mm/dd/yy): 7/25/94 TIME: 9 : 40 PAGE 1 OF 1

Task Team Members:

Sally Brown

Craig Patterson

Narrative (include time and location): NEAR K10

CH1 - 150, 170, 165, 160, 130 775 ÷5 = 155 ×3 = 465 ~~155~~ = ~~201.5~~ $\bar{x}$ = 155, sd = 12.44, 3xsd = 37.34, 155 + 37.44 = 192.34

CH2 - 9.5, 9.5, 9.0, 9.5, 9.5 = 47 ÷5 = 9.4 ×3 = ~~28.2~~ ~~9.4~~ = ~~12.22~~ sd = 3.06, 3xsd = 9.18, 18.58

CH out - 10.0, 10.5, 10.0, 9.5, 10.0, - 10.0 ×3 = ~~30~~ = ~~10.0~~ = ~~13.0~~ sd = 3.16, 3xsd = 9.48, 19.48

CH1 - Pu^{238} - 25,000 Th - 4,500 CH2CC: $\bar{x}$ = 9400 sd = 969 9.7 Kcpm

CH2 - Pu^{238} - ~~39~~ 6.0 Th - 39.0 CH1CC: $\bar{x}$ = 10,000 10.3 Kcpm

9:35 - ARRIVE IN ADC 7. IN ROAD. WEAR ORANGE VESTS & USE CONES @ US.

9:40 - TAKE STD BKGD CHK.

10:15 - START TAKING READINGS. ALL BLOCKS ARE SERPENTINABLE

11:55 - GO TO TRAILER FOR LUNCH

12:30 - GO TO AREA 13 After lunch.

Daily Weather Conditions: A.M. cool, sunny

P.M.

Recorded By Sally Brown QA Checked By

6

TASK TEAM ACTIVITY LOG SHEET Pg 6 **FIDLER** ADC 7

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 **TASK NO.: 34896**

Date (mm/dd/yy): 7/26/94 TIME: 7 : 45 PAGE 1 OF 1

Task Team Members:

Sally Brown

Craig Patterson

Narrative (include time and location):

CH1 - 170, 160, 180, 135, 135 - 780 ÷5 : 156 ×2 : ~~168 + 156~~ = 202.8 SH 4/27/95

$\bar{x}$ = 156 sd = 12.48 3xsd = 37.46 + 156 = 193.46

Pu^{238} - 225 Th - 2500

CH2 - 9.5, 9.5, 9.5, 9.0, 9.5 = 47 ÷5 : 9.4 ×2 : ~~2.82 + 9.4~~ = 12.22 SH 4/27/95

~~$\bar{x}$ = 9.4 sd = 3.06 3xsd = 9.18 + 9.4 = 18.58~~ SH 6/1/95

Pu^{238} - 6.0 Th - 27.0 $\bar{x}$ = 9400 sd = 97 x3 = 291 + 9400 = 9691 ≈ 9.7 Kcpm

Out - 9.5, 10.0, 10.0, 10.0, 10.5 - 10.0 = 5.00 + 10.0 = 13.0 SH 4/27/95

~~$\bar{x}$ = 10 sd = 3.16 3xsd = 9.48 + 10 = 19.48~~ SH 6/1/95

Batt - 96% HV - 1.21 $\bar{x}$ = 10,000 sd = 100 x 3 = 300 + 10,000 = 10,300 cpm

≈ 10.3 Kcpm

7:45 - START TAKING BLOOD CHK. NEAR J-5

8:15 - START SERPENTINING AREA IS either in road or on hill. EASILY SERPENTINIABLE. ON GRID WAS LOCATED IN CONSTRUCTION AREA. TOO MUCH EQUIPMENT TO SERPENTINE.

10:10 - FINISH AREA 7. NOT ABLE TO GET ANY READINGS FOR B-2 DUE TO A DUMP TRUCK PARKED COMPLETELY COVERING THE GRID. CHECKED CONTINUOUSLY TO SEE IF MOVED, BUT NEVER WAS.

Daily Weather Conditions: A.M. Sunny, wet grass, cool

P.M.

Recorded By Sally Brown QA Checked By [illegible]

FIDLER MEASUREMENT DATA Pg 47 FIDLER ADC 7

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 PROJECT NO: 34896

FACILITY CODE: MND 21 LOGGER CODE: SAIC
LOG DATE: 7-14-94 FIELD REP: Sally Brown
ACCEPTANCE CODE: A FIDLER NO.: 2
RATEMETER/SCALER:
MODEL NO.: 3400 SERIAL NO.: A806N CALIBRATION DATE: 4/18/94
WINDOW: Out THRESHOLD: NA VOLTAGE: 1.22 BATTERY: 92%
NaI PROBE:
MODEL NO.: 3611 SERIAL NO.: A900T CALIBRATION DATE: 4/18/94
CHECK SOURCE:
ISOTOPE: Pu-238 ACTIVITY: 0.5 μCurie ~~DPM~~ DPH 9/8/94 SERIAL NO.: 31
SOURCE CHECK:
METER READING: 18,600 COUNTS/ 1 MIN = 18,600 CPM
(WITHIN ± 3 STANDARD DEVIATIONS? (Y/N) Y)
CONTAMINATION CRITERIA: OUT 10.3 ~~73.0 14.48~~ 4/27/95 CH1 172.1 ~~178.1~~ 4/27/95 CH2 9.3 ~~11.7 18.0~~ 4/27/95
COMMENTS: STD BKGD DATA ON Pg 1

FACILITY CODE: MND 21 LOGGER CODE: SAIC
LOG DATE: 7-19-94 FIELD REP: Sally Brown
ACCEPTANCE CODE: A FIDLER NO.: 2
RATEMETER/SCALER:
MODEL NO.: 3400 SERIAL NO.: A806N CALIBRATION DATE: 4/18/94
WINDOW: out THRESHOLD: NA VOLTAGE: 1.21 BATTERY: 86%
NaI PROBE:
MODEL NO.: 3611 SERIAL NO.: A900T CALIBRATION DATE: 4/18/94
CHECK SOURCE:
ISOTOPE: Pu-238 ACTIVITY: 0.5 μCuries ~~DPM~~ DPH 9/8/94 SERIAL NO.: 31
SOURCE CHECK:
METER READING: 18600 COUNTS/ 1 MIN = 18600 CPM
(WITHIN ± 3 STANDARD DEVIATIONS? (Y/N) Y)
CONTAMINATION CRITERIA: 9.3 OUT ~~18.0 11.7~~ 4/27/95 CH1 175.4 ~~182.0~~ 4/27/95 CH2 8.5 ~~16.78 10.66~~ 4/27/95
COMMENTS: STD BKGD DATA ON Pg 2

ACCEPTANCE CODES: A - ACCEPTABLE, R - RECONNAISSANCE, U - UNACCEPTABLE, N - NOT DETERMINED

COMPLETE BOLDED DATA FOR ENTRY INTO TIMS

Sally Brown 7/14/94 7/19/94 Paul Ingrassia
FORM COMPLETED BY / DATE TECHNICAL REVIEWER / DATE

48

FIDLER MEASUREMENT DATA PG 48 **FIDLER** ADC 7

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 **PROJECT NO: 34896**

FACILITY CODE: MND 21 **LOGGER CODE:** SAIC

LOG DATE: 7-20-94 FIELD REP: Sally Brown

ACCEPTANCE CODE: A FIDLER NO.: 2 SB 7-20-94

RATEMETER/SCALER:

MODEL NO.: 3712 SERIAL NO.: B891G CALIBRATION DATE: 6/15/94

WINDOW: out THRESHOLD: Ø VOLTAGE: 1.22 BATTERY: 95%

NaI PROBE:

MODEL NO.: 3713 SERIAL NO.: B586N CALIBRATION DATE: 6/15/94

CHECK SOURCE: Pu-238 Calibrated using FIDLER #2

ISOTOPE: SB 7-19-94 ~~Pu-237~~ ACTIVITY: 0.5 μcuries ~~DPM~~ DPM 11/15/94 SERIAL NO.: 31

SOURCE CHECK:

METER READING: 18,600 COUNTS/ 1 MIN = 18600 CPM

(WITHIN ± 3 STANDARD DEVIATIONS? (Y/N) Y)

CONTAMINATION CRITERIA: ~~11.05~~ 8.8 OUT ~~9.49~~ 4/4/95 ~~166.4~~ CH1 161.9 ~~9.49~~ 7.5 CH2 ~~15.49~~ 4/4/95 ~~9.49~~ JH 4/27/95

COMMENTS: STD BKGD DATA ON PG 3

FACILITY CODE: MND 21 **LOGGER CODE:** SAIC

LOG DATE: 7-21-94 FIELD REP: Sally Brown

ACCEPTANCE CODE: A FIDLER NO.: 1

RATEMETER/SCALER:

MODEL NO.: 3712 SERIAL NO.: B891G1 CALIBRATION DATE: 6/15/94

WINDOW: out THRESHOLD: Ø VOLTAGE: 1.21 BATTERY: 94%

NaI PROBE:

MODEL NO.: 3713 SERIAL NO.: B586N CALIBRATION DATE: 6/15/94

CHECK SOURCE: Calibrated using FIDLER #2

ISOTOPE: Pu-238 ACTIVITY: 0.5 μcuries ~~DPM~~ DPM 11/15/94 SERIAL NO.: 31

SOURCE CHECK:

METER READING: 18,600 COUNTS/ 1 MIN = 18600 CPM

(WITHIN ± 3 STANDARD DEVIATIONS? (Y/N) Y)

CONTAMINATION CRITERIA: ~~9.69~~ SB 7-21-94 OUT 10.79 ~~120.3~~ SB 7-21-94 CH1 141.25 ~~5.85~~ SB 7-21-94 CH2 10.67 JH 4/27/95

COMMENTS: STD BKGD DATA ON PG 4

CC: OUT = ~~16.94~~ 8.6 JH 4/4/95 CH1 = 168.72 CH2 = ~~16.79~~ 8.5 JH 4/4/95 JH

ACCEPTANCE CODES: A - ACCEPTABLE, R - RECONNAISSANCE, U - UNACCEPTABLE, N - NOT DETERMINED

COMPLETE BOLDED DATA FOR ENTRY INTO TIMS

FORM COMPLETED BY / DATE 7/20/94 7/21/94 TECHNICAL REVIEWER / DATE

FIDLER MEASUREMENT DATA PG 49 FIDLER

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 AOC 7 PROJECT NO: 34896

FACILITY CODE: MND 21 LOGGER CODE: SAIC
LOG DATE: 7/25/94 FIELD REP: Sally Brown
ACCEPTANCE CODE: A FIDLER NO.: 1
RATEMETER/SCALER:
MODEL NO.: 3712 SERIAL NO.: B891G CALIBRATION DATE: 6/15/94
WINDOW: Out THRESHOLD: Ø VOLTAGE: 1.21 BATTERY: 100%
NaI PROBE:
MODEL NO.: 3713 SERIAL NO.: B586N CALIBRATION DATE: 6/15/94
CHECK SOURCE: Calibrated using FIDLER #2
ISOTOPE: Pu-238 ACTIVITY: 0.5 μcuries ~~DPM~~ gpm 11/15/94 SERIAL NO.: 31
SOURCE CHECK:
METER READING: 18,600 COUNTS/ 1 MIN = 18,600 CPM
(WITHIN ± 3 STANDARD DEVIATIONS? (Y/N) Y)
CONTAMINATION CRITERIA: ~~13.0~~ 10.3 OUT 9.48 gH 6/2/95 CH1 ~~201.5~~ 192.34 ~~12.22~~ 9.7 CH2 ~~48.58~~ gH 6/2/95 gH 6/27/95
COMMENTS: STD BKGD DATA - pg 5

FACILITY CODE: MND 21 LOGGER CODE: SAIC
LOG DATE: 7/26/94 FIELD REP: Sally Brown
ACCEPTANCE CODE: A FIDLER NO.: 1
RATEMETER/SCALER:
MODEL NO.: 3712 SERIAL NO.: B891G CALIBRATION DATE: 6/15/94
WINDOW: Out THRESHOLD: Ø VOLTAGE: 1.21 BATTERY: 96%
NaI PROBE:
MODEL NO.: 3713 SERIAL NO.: B586N CALIBRATION DATE: 6/15/94
CHECK SOURCE: Calibrated using FIDLER
ISOTOPE: Pu-238 ACTIVITY: 0.5 μcuries ~~DPM~~ gpm 11/15/94 SERIAL NO.: 31
SOURCE CHECK:
METER READING: 18,600 COUNTS/ 1 MIN = 18,600 CPM
(WITHIN ± 3 STANDARD DEVIATIONS? (Y/N) Y)
CONTAMINATION CRITERIA: ~~13.0~~ 10.3 OUT 9.48 gH 6/2/95 CH1 ~~202.8~~ 193.46 ~~12.22~~ 9.7 CH2 ~~48.59~~ gH 6/2/95 gH 6/27/95
COMMENTS: STD BKGD DATA - pg 6

ACCEPTANCE CODES: A - ACCEPTABLE, R - RECONNAISSANCE, U - UNACCEPTABLE, N - NOT DETERMINED

COMPLETE BOLDED DATA FOR ENTRY INTO TIMS

FORM COMPLETED BY / DATE: 7/25/94 7/26/94 TECHNICAL REVIEWER / DATE

FIDLER SURVEY

PG 77

AOC 7

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1

PROJECT NO.: 34896

LOCATION GRID ID	DATE OF SURVEY	FIDLER No.	OUTCHANNEL READING (X1000)	AUDIBLE (Y/N)	CONTAMINATED? Y/N	CONTAMINATED? SECTOR	REF	COMMENTS
7A01								
7A01-01	7/14/94	2	4.0	N	N	NA	NA	
7A01-02			3.5					
7A01-03			4.0					
7A01-04			4.0					
7A01-05			3.5					
7A01-06			4.0					
7A01-07			4.0					
7A01-08			4.0					
7A01-09			3.5					
7A01-10			4.0					
7A01-11			4.0					
7A01-12			4.0					
7A01-13			4.0					
7A01-14			4.0					
7A01-15			4.0					
7A01-16			4.0					
7A01-17			3.5					
7A01-18			4.0					
7A01-19			4.0					
7A01-20			4.0					
7A01-21			4.5					
7A01-22			4.0					
7A01-23			4.0					
7A01-24			4.0					
7A01-25			3.5					
7B01								
7B01-01	7-19-94	2	5.0	N	N	NA	NA	
7B01-02			5.0					
7B01-03			5.0					
7B01-04			4.5					
7B01-05			4.5					
7B01-06			4.5					
7B01-07			5.0					

FIDLER SURVEY

PG 78 AOC 7

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 PROJECT NO.: 34896

LOCATION GRID ID	DATE OF SURVEY	FIDLER No.	OUTCHANNEL READING (X1000)	AUDIBLE (Y/N)	CONTAMINATED? Y/N	CONTAMINATED? SECTOR	REF	COMMENTS
7B01-08	7-19-94	2	5.0	N	N	NA	NA	
7B01-09			5.0					
7B01-10			5.0					
7B01-11			5.0					
7B01-12			4.5					
7B01-13			5.0					
7B01-14			5.0					
7B01-15			4.5					
7B01-16			4.0					
7B01-17			4.0					
7B01-18			4.5					
7B01-19			5.0					
7B01-20			5.0					
7B01-21			4.5					
7B01-22			4.5					
7B01-23			4.0					
7B01-24			4.0					
7B01-25			4.5					
7C01								
7C01-01	7-14-94	2	4.0	N	N	NA	NA	
7C01-02			4.0					
7C01-03			4.0					
7C01-04			4.0					
7C01-05			5.0					
7C01-06			5.5					
7C01-07			4.5					
7C01-08			4.5					
7C01-09			4.0					
7C01-10			4.0					
7C01-11			3.5					
7C01-12			3.5					
7C01-13			4.0					
7C01-14			4.5					
7C01-15			6.0					

FIDLER SURVEY

PG 79

AOC 7

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1

PROJECT NO.: 34896

LOCATION GRID ID	DATE OF SURVEY	FIDLER No.	OUTCHANNEL READING (X1000)	AUDIBLE (Y/N)	CONTAMINATED? Y/N	CONTAMINATED? SECTOR	REF	COMMENTS
7C01-16	7-14-94	Z	8.0	N	N	NA	NA	
7C01-17			6.0					
7C01-18			4.0					
7C01-19			3.5					
7C01-20			3.5					
7C01-21			3.5					
7C01-22			3.5					
7C01-23			4.0					
7C01-24			5.0					
7C01-25			8.0					
7D01								
7D01-01	7/14/94	Z	5.5	N	N	NA	NA	
7D01-02			6.0					
7D01-03			6.5					
7D01-04			5.5					
7D01-05			5.0					
7D01-06			6.5					
7D01-07			6.0					
7D01-08			5.5					
7D01-09			5.5					
7D01-10			7.0					
7D01-11			7.0					
7D01-12			8.0					
7D01-13			6.5					
7D01-14			6.5					
7D01-15			7.0					
7D01-16			8.5					
7D01-17			8.5					
7D01-18			9.0					
7D01-19			9.0					
7D01-20			9.0					
7D01-21			9.5					
7D01-22			9.0					
7D01-23			9.0					

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FIDLER SURVEY

PG 80

AOC 7

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1

PROJECT NO.: 34896

LOCATION GRID ID	DATE OF SURVEY	FIDLER No.	OUTCHANNEL READING (X1000)	AUDIBLE (Y/N)	CONTAMINATED? Y/N	CONTAMINATED? SECTOR	REF	COMMENTS
7D01-24	7/19/94	2	8.5	N	N	NA	NA	
7D01-25	↓	↓	8.5	↓	↓	↓	↓	
7E01								
7A02								
7A02-01	7/14/94	2	4.5	N	N	NA	NA	
7A02-02			5.0					
7A02-03			4.0					
7A02-04			4.0					
7A02-05			4.0					
7A02-06			4.0					
7A02-07			4.0					
7A02-08			4.5					
7A02-09			4.0					
7A02-10	↓	↓	4.5	↓	↓	↓	↓	
7A02-11								equipment in way
7A02-12								
7A02-13								
7A02-14								
7A02-15								
7A02-16								
7A02-17								
7A02-18			8/26/94					
7A02-19								
7A02-20								
7A02-21								
7A02-22								
7A02-23								
7A02-24								
7A02-25								
7B02								under garbage truck
7B02-01								
7B02-02								

FIDLER SURVEY

PG 81

ADC 7

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1

PROJECT NO.: 34896

LOCATION GRID ID	DATE OF SURVEY	FIDLER No.	OUTCHANNEL READING (X1000)	AUDIBLE (Y/N)	CONTAMINATED? Y/N	CONTAMINATED? SECTOR	REF	COMMENTS
7B02-03								
7B02-04								
7B02-05								
7B02-06								
7B02-07								
7B02-08								
7B02-09								
7B02-10								
7B02-11								
7B02-12								
7B02-13			8/26/94					
7B02-14								
7B02-15								
7B02-16								
7B02-17								
7B02-18								
7B02-19								
7B02-20								
7B02-21								
7B02-22								
7B02-23								
7B02-24								
7B02-25								
7C02								
7C02-01	7-14-94	2	3.5	N	N	NA	NA	
7C02-02			3.5					
7C02-03			4.0					
7C02-04			4.5					
7C02-05			7.5					
7C02-06			8.0					
7C02-07			5.0					
7C02-08			4.0					
7C02-09			3.5					
7C02-10			3.5					

FIDLER SURVEY

PG 82

ADC 7

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1

PROJECT NO.: 34896

LOCATION GRID ID	DATE OF SURVEY	FIDLER No.	OUTCHANNEL READING (X1000)	AUDIBLE (Y/N)	CONTAMINATED? Y/N	CONTAMINATED? SECTOR	REF	COMMENTS
7C02-11	7-14-94	2	4.0	N	N	NA	NA	
7C02-12			4.5					
7C02-13			4.5					
7C02-14			5.5					
7C02-15			7.5					
7C02-16			8.5					
7C02-17			5.5					
7C02-18			5.0					
7C02-19			4.0					
7C02-20			3.5					
7C02-21			3.5					
7C02-22			4.0					
7C02-23			4.5					
7C02-24			6.5					
7C02-25			7.5					
7D02								
7D02-01	7-19-94	2	9.0	N	N	NA	NA	
7D02-02			9.0					
7D02-03			9.0					
7D02-04			8.5					
7D02-05			8.5					
7D02-06			8.5					
7D02-07			9.5					
7D02-08			9.5					
7D02-09			9.0		N			
7D02-10			8.5					
7D02-11			8.5					
7D02-12			9.0					
7D02-13			9.5					
7D02-14			9.5					
7D02-15			8.0		N			
7D02-16			9.0					
7D02-17			9.0					
7D02-18			9.0					

FIDLER SURVEY

PG 83

AOC 7

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1

PROJECT NO.: 34896

LOCATION GRID ID	DATE OF SURVEY	FIDLER No.	OUTCHANNEL READING (X1000)	AUDIBLE (Y/N)	CONTAMINATED? Y/N	CONTAMINATED? SECTOR	REF	COMMENTS
7D02-19	7-19-94	2	8.0	N	N	NA	NA	
7D02-20			8.0					
7D02-21			8.5					
7D02-22			7.5					
7D02-23			8.5					
7D02-24			8.5					
7D02-25			9.0					
7E02								
7A03								
7A03-01	7-19-94	2	4.0	N	N	NA	NA	
7A03-02			4.5	N				~~under equipment~~ SB
7A03-03			NA	NA				under equipment
7A03-04			4.5	N				
7A03-05			4.0					
7A03-06			6.0					
7A03-07			8.0					
7A03-08			6.5					
7A03-09			6.5					
7A03-10			7.0					
7A03-11			6.5					
7A03-12			6.5					
7A03-13			6.5					
7A03-14			6.5					
7A03-15			6.5					
7A03-16			5.0		N			
7A03-17			5.0					
7A03-18			4.5					
7A03-19			4.5					
7A03-20			4.0					
7A03-21			4.0					
7A03-22			4.0					
7A03-23			4.5					
7A03-24			4.5					

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FIDLER SURVEY

PG 84 AOC 7

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 PROJECT NO.: 34896

LOCATION GRID ID	DATE OF SURVEY	FIDLER No.	OUTCHANNEL READING (X1000)	AUDIBLE (Y/N)	CONTAMINATED? Y/N	CONTAMINATED? SECTOR	REF	COMMENTS
7A03-25	7-19-94	2	4.5	N	N	NA	NA	
7B03	7/19/94	2	3.5	N	N	NA	NA	
7B03-01			3.5					
7B03-02			3.0					
7B03-03			3.5					
7B03-04			~~SP 7/19/94~~ NA					UNDER WASTE TRUCK
7B03-05			4.0					
7B03-06			5.0					
7B03-07			5.5					
7B03-08			5.5					
7B03-09			5.0					
7B03-10			5.0					
7B03-11			6.0					
7B03-12			6.5					
7B03-13			7.0					
7B03-14			7.0					
7B03-15			7.5					
7B03-16			6.0					
7B03-17			5.5					
7B03-18			5.5					
7B03-19			6.0					
7B03-20			5.0					
7B03-21			4.0					
7B03-22			4.5					
7B03-23			4.5					
7B03-24			4.5					
7B03-25			4.5					
7C03								
7C03-01	7-19-94	2	4.5	N	N	NA	NA	
7C03-02			5.0					
7C03-03			6.0					
7C03-04			6.5					
7C03-05			9.0					

FIDLER SURVEY

DG 85 ADC 7

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 PROJECT NO.: 34896

LOCATION GRID ID	DATE OF SURVEY	FIDLER No.	OUTCHANNEL READING (X1000)	AUDIBLE (Y/N)	CONTAMINATED? Y/N	CONTAMINATED? SECTOR	REF	COMMENTS
7C03-06	7-19-94	2	8.5	N	N	N.A	NA	
7C03-07			9.0					
7C03-08			7.5					
7C03-09			7.5					
7C03-10			5.5					
7C03-11			5.0					
7C03-12			7.5					
7C03-13			7.0					
7C03-14			8.0					
7C03-15			9.0					
7C03-16			8.0					
7C03-17			9.0					
7C03-18			7.5					
7C03-19			8.0					
7C03-20			7.5					
7C03-21			5.5					
7C03-22			6.0					
7C03-23			6.5					
7C03-24			5.5					
7C03-25			5.5					
7D03								
7D03-01	7/19/94	2	9.5	N	~~N~~ Y 9/11/95	NA	NA	
7D03-02			9.0		N			
7D03-03			9.5		Y 9/11/95			
7D03-04			8.5		N			
7D03-05			8.5					
7D03-06			9.0					
7D03-07			9.0					
7D03-08			9.0					
7D03-09			8.5					
7D03-10			9.0					
7D03-11			9.5		~~Y~~ 9/11/95			
7D03-12			9.5					
7D03-13			9.5					

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FIDLER SURVEY

PG 86 AOC 7

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 PROJECT NO.: 34896

LOCATION GRID ID	DATE OF SURVEY	FIDLER No.	OUTCHANNEL READING (X1000)	AUDIBLE (Y/N)	CONTAMINATED? Y/N	CONTAMINATED? SECTOR	REF	COMMENTS
7D03-14	7/19/94	2	9.5	N	~~N~~ Y	NA	NA	
7D03-15			9.0		N			
7D03-16			8.5					
7D03-17			8.5					
7D03-18			8.5					
7D03-19			8.0					
7D03-20			7.0					
7D03-21			6.0					
7D03-22			6.0					
7D03-23			6.0					
7D03-24			6.5					
7D03-25			6.5					
7E03								
7A04								
7B04								
7C04								
7D04								
			PM					
7E04			8/26/94					
7F05								IN BLD. 98
7F05-01								
7F05-02								
7F05-03								
7F05-04								
7F05-05								
7F05-06								
7F05-07								
7F05-08								
7F05-09								

FIDLER SURVEY

PG 87

ADC 7

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1

PROJECT NO.: 34896

LOCATION GRID ID	DATE OF SURVEY	FIDLER No.	OUTCHANNEL READING (X1000)	AUDIBLE (Y/N)	CONTAMINATED? Y/N	CONTAMINATED? SECTOR	REF	COMMENTS
7F05-10								
7F05-11								
7F05-12								
7F05-13								
7F05-14								
7F05-15								
7F05-16								
7F05-17								
7F05-18								
7F05-19								
7F05-20								
7F05-21								
7F05-22								
7F05-23								
7F05-24			8/26/94					
7F05-25								
7G05								IN BUILD. 98
7G05-01								
7G05-02								
7G05-03								
7G05-04								
7G05-05								
7G05-06								
7G05-07								
7G05-08								
7G05-09								
7G05-10								
7G05-11								
7G05-12								
7G05-13								
7G05-14								
7G05-15								
7G05-16								
7G05-17								

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FIDLER SURVEY

PG88

ABC 7

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 PROJECT NO.: 34896

LOCATION GRID ID	DATE OF SURVEY	FIDLER No.	OUTCHANNEL READING (X1000)	AUDIBLE (Y/N)	CONTAMINATED? Y/N	CONTAMINATED? SECTOR	REF	COMMENTS
7G05-18								
7G05-19								
7G05-20								
7G05-21			DMJ					
7G05-22			8/26/94					
7G05-23								
7G05-24								
7G05-25								
7H05								
7H05-01	7/20/94	1	6.0 ~~CP 7/20/94~~	N	N	NA	NA	
7H05-02			5.5					
7H05-03			5.0					
7H05-04			5.5					
7H05-05			5.5					
7H05-06			5.5					
7H05-07			5.5					
7H05-08			5.5					
7H05-09			5.5					
7H05-10			5.0					
7H05-11			5.5					
7H05-12			CP 7/20/94 ~~5.0~~ 5.5					
7H05-13			CP 7/20/94 ~~5.5~~ 5.0					
7H05-14			6.0					
7H05-15			5.5					
7H05-16			5.5					
7H05-17			5.0					
7H05-18			5.5					
7H05-19			5.5					
7H05-20			5.0					
7H05-21			5.5					
7H05-22			5.0					
7H05-23			5.5					
7H05-24			5.5					
7H05-25			5.0					

FIDLER SURVEY

PG 89 AOC 7

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 PROJECT NO.: 34896

LOCATION GRID ID	DATE OF SURVEY	FIDLER No.	OUTCHANNEL READING (X1000)	AUDIBLE (Y/N)	CONTAMINATED? Y/N	CONTAMINATED? SECTOR	REF	COMMENTS
7I05								
7I05-01	7/20/94	1	5.5	N	N	NA	NA	
7I05-02			5.5					
7I05-03			5.5					
7I05-04			5.5					
7I05-05			6.0					
7I05-06			6.0					
7I05-07			6.0					
7I05-08			6.0					
7I05-09			5.5					
7I05-10			5.0					
7I05-11			5.5					
7I05-12			5.5					
7I05-13			5.5					
7I05-14			6.0					
7I05-15			6.0					
7I05-16			6.0					
7I05-17			cp 7/20/94 ~~6.0~~ 5.5					
7I05-18			5.5					
7I05-19			5.5					
7I05-20			5.5					
7I05-21			5.0					
7I05-22			5.5					
7I05-23			6.0					
7I05-24			5.5					
7I05-25			6.0					
7J05								
7J05-01	7/26/94	1	7.5	N	N	NA	NA	
7J05-02			8.0					
7J05-03			7.5					
7J05-04			7.5					
7J05-05			7.5					
7J05-06			7.5					

90

FIDLER SURVEY

PG 90

AOC 7

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1

PROJECT NO.: 34896

LOCATION GRID ID	DATE OF SURVEY	FIDLER No.	OUTCHANNEL READING (X1000)	AUDIBLE (Y/N)	CONTAMINATED? Y/N	CONTAMINATED? SECTOR	REF	COMMENTS
7J05-07	7/25/94	1	7.0	N	N	NA	NA	
7J05-08			7.0					
7J05-09			7.5					
7J05-10			7.0					
7J05-11			8.5					
7J05-12			8.0					
7J05-13			7.5					
7J05-14			7.5					
7J05-15			8.0					
7J05-16			8.0					
7J05-17			7.5					
7J05-18			7.5					
7J05-19			8.0					
7J05-20			6.5					
7J05-21			7.0					
7J05-22			8.5					
7J05-23			7.5					
7J05-24			7.0					
7J05-25			7.5					
7K05								
7K05-01	7/26/94	1	7.5	N	N	NA	NA	Construction area
7K05-02								
7K05-03								
7K05-04								
7K05-05								
7K05-06								
7K05-07								
7K05-08								
7K05-09								
7K05-10								
7K05-11								
7K05-12								
7K05-13								
7K05-14								

HM
8/26/94

FIDLER SURVEY

PG 91 AOC 7

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 PROJECT NO.: 34896

LOCATION GRID ID	DATE OF SURVEY	FIDLER No.	OUTCHANNEL READING (X1000)	AUDIBLE (Y/N)	CONTAMINATED? Y/N	CONTAMINATED? SECTOR	REF	COMMENTS
7K05-15								
7K05-16								
7K05-17								
7K05-18								
7K05-19			DMP					
7K05-20			8/26/94					
7K05-21								
7K05-22								
7K05-23								
7K05-24								
7K05-25								
7L05	7/21/94	1	5.0	N	N	N/A	N/A	
7L05-01								
7L05-02								
7L05-03								
7L05-04								
7L05-05								
7L05-06								
7L05-07								
7L05-08								
7L05-09			DMP					
7L05-10			8/26/94					
7L05-11								
7L05-12								
7L05-13								
7L05-14								
7L05-15								
7L05-16								
7L05-17								
7L05-18								
7L05-19								
7L05-20								
7L05-21								
7L05-22								

92

FIDLER SURVEY

PG 92

AOC 7

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1

PROJECT NO.: 34896

LOCATION GRID ID	DATE OF SURVEY	FIDLER No.	OUTCHANNEL READING (X1000)	AUDIBLE (Y/N)	CONTAMINATED? Y/N	CONTAMINATED? SECTOR	REF	COMMENTS
7L05-23								
7L05-24								
7L05-25								
7M05	7/21/94	1	9.5	N	~~N~~ Y	NA	NA	
7F06								IN BUILD 98
7F06-01								
7F06-02								
7F06-03								
7F06-04								
7F06-05								
7F06-06								
7F06-07								
7F06-08								
7F06-09								
7F06-10			PMD					
7F06-11			8/26/94					
7F06-12								
7F06-13								
7F06-14								
7F06-15								
7F06-16								
7F06-17								
7F06-18								
7F06-19								
7F06-20								
7F06-21								
7F06-22								
7F06-23								
7F06-24								
7F06-25								
7G06								IN BUILD. 98
7G06-01								

FIDLER SURVEY PG 93 ADC 7

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 PROJECT NO.: 34896

LOCATION GRID ID	DATE OF SURVEY	FIDLER No.	OUTCHANNEL READING (X1000)	AUDIBLE (Y/N)	CONTAMINATED? Y/N	CONTAMINATED? SECTOR	REF	COMMENTS
7G06-02								
7G06-03								
7G06-04								
7G06-05								
7G06-06								
7G06-07								
7G06-08								
7G06-09								
7G06-10								
7G06-11								
7G06-12								
7G06-13			PMP					
7G06-14			8/26/94					
7G06-15								
7G06-16								
7G06-17								
7G06-18								
7G06-19								
7G06-20								
7G06-21								
7G06-22								
7G06-23								
7G06-24								
7G06-25								
7H06								
7H06-01	7-20-94	1	6.0	N	N	NA	NA	
7H06-02			6.0					
7H06-03			5.5					
7H06-04			9.0					
7H06-05			5.0					
7H06-06			5.0					
7H06-07			6.0					
7H06-08			5.5					
7H06-09			5.5					

94

FIDLER SURVEY

PG 9A

ADC 7

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1

PROJECT NO.: 34896

LOCATION GRID ID	DATE OF SURVEY	FIDLER No.	OUTCHANNEL READING (X1000)	AUDIBLE (Y/N)	CONTAMINATED? Y/N	CONTAMINATED? SECTOR	REF	COMMENTS
7H06-10	7-20-94	1	5.5	N	N	NA	NA	
7H06-11			6.0					
7H06-12			5.5					
7H06-13			6.0					
7H06-14			5.0					
7H06-15			5.5					
7H06-16			6.0					
7H06-17			5.5					
7H06-18			5.5					
7H06-19			5.0					
7H06-20			6.5					
7H06-21			6.0					
7H06-22			6.0					
7H06-23			5.5					
7H06-24			6.0					
7H06-25			5.5					
7I06								
7I06-01	7-20-94	1	6.0	N	N	NA	NA	
7I06-02			6.0					
7I06-03			6.0					
7I06-04			6.0					
7I06-05			6.0					
7I06-06			6.5					
7I06-07			6.0					
7I06-08			5.5					
7I06-09			5.5					
7I06-10			6.0					
7I06-11			6.0					
7I06-12			6.0					
7I06-13			5.5					
7I06-14			6.0					
7I06-15			6.0					
7I06-16			6.0					
7I06-17			5.5					

FIDLER SURVEY

Pg 95 AOC 7

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 PROJECT NO.: 34[illegible]

LOCATION GRID ID	DATE OF SURVEY	FIDLER No.	OUTCHANNEL READING (X1000)	AUDIBLE (Y/N)	CONTAMINATED? Y/N	CONTAMINATED? SECTOR	REF	COMMENTS
7I06-18	7-20-94	1	5.5	N	N	NA	NA	
7I06-19			5.5					
7I06-20			5.5					
7I06-21			5.5					
7I06-22			5.5					
7I06-23			6.0					
7I06-24			6.0					
7I06-25			5.5					
7J06								
7J06-01	7/26/94	1	6.5	N	N	NA	NA	
7J06-02			7.5					
7J06-03			7.5					
7J06-04			7.5					
7J06-05			7.5					
7J06-06			7.5					
7J06-07			8.0					
7J06-08			10.0					
7J06-09			8.0					
7J06-10			6.0					
7J06-11			6.0					
7J06-12			8.0					
7J06-13			8.0					
7J06-14			7.0					
7J06-15			7.0					
7J06-16			7.0					
7J06-17			8.0					
7J06-18			8.5					
7J06-19			6.5					
7J06-20			6.0					
7J06-21			6.5					
7J06-22			7.0					
7J06-23			8.0					
7J06-24			7.5					
7J06-25			7.5					

96

FIDLER SURVEY

PG 96

ADC 7

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1

PROJECT NO.: 34896

LOCATION GRID ID	DATE OF SURVEY	FIDLER No.	OUTCHANNEL READING (X1000)	AUDIBLE (Y/N)	CONTAMINATED? Y/N	CONTAMINATED? SECTOR	REF	COMMENTS
7K06	7/26/94	1	7.0	N	N	NA	NA	
7K06-01	7/26/94	1	8.0	N	N	NA	NA	
7K06-02	7/21/94	1	5.5	N	N	NA	NA	
7K06-03			6.0					
7K06-04			5.5					
7K06-05			6.0					
7K06-06			5.5					
7K06-07			6.0					
7K06-08			6.5					
7K06-09			6.5					
7K06-10	7/26/94	1	7.5	N	N	NA	NA	
7K06-11	7/26/94	1	7.0	N	N	NA	NA	
7K06-12	7/21/94	1	6.5	N	N	NA	NA	
7K06-13			6.5					
7K06-14			5.5					
7K06-15			6.0					
7K06-16			5.0					
7K06-17			6.0					
7K06-18			6.5					
7K06-19			5.5					
7K06-20	7/26/94	1	6.5	N	N	NA	NA	
7K06-21	7/26/94	1	7.0	N	N	NA	NA	
7K06-22	7/21/94	1	6.5	N	N	NA	NA	
7K06-23			6.5					
7K06-24			6.0					
7K06-25			6.0					
7L06	7/21/94	1	5.0	N	N	NA	NA	
7L06-01	7-21-94	1	5.5	N	N	NA	NA	
7L06-02			5.5					
7L06-03			6.0					
7L06-04			8.5					
7L06-05			7.0					
7L06-06			7.0					

FIDLER SURVEY

PG 97

AOC 7

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1

PROJECT NO.: 34896

LOCATION GRID ID	DATE OF SURVEY	FIDLER No.	OUTCHANNEL READING (X1000)	AUDIBLE (Y/N)	CONTAMINATED? Y/N	CONTAMINATED? SECTOR	REF	COMMENTS
7L06-07	7-21-94	1	7.0	N	N	NA	NA	
7L06-08			6.0					
7L06-09			5.5					
7L06-10			5.5					
7L06-11			5.5					
7L06-12			6.0					
7L06-13			6.0					
7L06-14			7.0					
7L06-15			7.5					
7L06-16			7.0					
7L06-17			6.5					
7L06-18			6.0					
7L06-19			6.0					
7L06-20			6.0					
7L06-21			6.0					
7L06-22			7.5					
7L06-23			6.5					
7L06-24			6.5					
7L06-25			7.5					
7M06	7/21/94	1	8.5	N	N	NA	NA	
7F07								
7F07-01	7/19/94	2	5.5	N	N	NA	NA	
7F07-02			5.5					
7F07-03			5.5					
7F07-04			6.0					
7F07-05			6.0					
7F07-06			5.5					
7F07-07			5.0					
7F07-08			5.0					
7F07-09			5.5					
7F07-10			6.0					
7F07-11			5.5					
7F07-12			5.5					

98

FIDLER SURVEY

PG 98

AOC 7

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1

PROJECT NO.: 34896

LOCATION GRID ID	DATE OF SURVEY	FIDLER No.	OUTCHANNEL READING (X1000)	AUDIBLE (Y/N)	CONTAMINATED? Y/N	CONTAMINATED? SECTOR	REF	COMMENTS
7F07-13	7/19/94	2	5.5	N	N	NA	NA	
7F07-14			5.5					
7F07-15			5.5					
7F07-16			6.0					
7F07-17			6.0					
7F07-18			6.0					
7F07-19			5.5					
7F07-20			5.5					
7F07-21			6.5					
7F07-22			6.5					
7F07-23			6.0					
7F07-24			6.0					
7F07-25			6.0					
7G07								
7G07-01	7-19-94	2	6.0	N	N	NA	NA	
7G07-02			6.0					
7G07-03			6.0					
7G07-04			6.5					
7G07-05			5.5					
7G07-06			5.0					
7G07-07			5.5					
7G07-08			5.0					
7G07-09			5.5					
7G07-10			5.5					
7G07-11			6.0					
7G07-12			5.5					
7G07-13			5.0					
7G07-14			5.5					
7G07-15			5.0					
7G07-16			5.0					
7G07-17			5.0					
7G07-18			5.0					
7G07-19			5.5					
7G07-20			5.5					

FIDLER SURVEY

PG 99

ADC 7

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1

PROJECT NO.: 34896

LOCATION GRID ID	DATE OF SURVEY	FIDLER No.	OUTCHANNEL READING (X1000)	AUDIBLE (Y/N)	CONTAMINATED? Y/N	CONTAMINATED? SECTOR	REF	COMMENTS
7G07-21	7-19-94	2	6.5	N	N	NA	NA	
7G07-22			7.0					
7G07-23			5.5					
7G07-24			5.5					
7G07-25			6.0					
7H07								
7H07-01	7/20/94	1	5.5	N	N	NA	NA	
7H07-02			6.0					
7H07-03			5.5					
7H07-04			5.5					
7H07-05			5.5					
7H07-06			5.5					
7H07-07			5.5					
7H07-08			5.5					
7H07-09			5.0					
7H07-10			5.5					
7H07-11			5.5					
7H07-12			5.5					
7H07-13			5.5					
7H07-14			5.5					
7H07-15			5.5					
7H07-16			5.5					
7H07-17			5.5					
7H07-18			6.0					
7H07-19			6.0					
7H07-20			5.5					
7H07-21			6.0					
7H07-22			5.5					
7H07-23			5.5					
7H07-24			5.5					
7H07-25			6.0					
7I07								
7I07-01	7/20/94	1	5.5	N	N	NA	NA	

100

100 FIDLER SURVEY PG 100 AOC 7

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 PROJECT NO.: 34896

LOCATION GRID ID	DATE OF SURVEY	FIDLER No.	OUTCHANNEL READING (X1000)	AUDIBLE (Y/N)	CONTAMINATED? Y/N	CONTAMINATED? SECTOR	REF	COMMENTS
7I07-02	7/20/94	1	5.5	N	N	NA	NA	
7I07-03			5.0					
7I07-04			5.5					
7I07-05			6.0					
7I07-06			5.5					
7I07-07			5.5					
7I07-08			5.5					
7I07-09			5.5					
7I07-10			5.0					
7I07-11			5.5					
7I07-12			5.5					
7I07-13			5.5					
7I07-14			6.0					
7I07-15			6.0					
7I07-16			5.5					
7I07-17			5.5					
7I07-18			5.5					
7I07-19			5.0					
7I07-20			5.5					
7I07-21			5.5					
7I07-22			5.5					
7I07-23			5.5					
7I07-24			5.5					
7I07-25			6.0					
7J07								
7J07-01	7/20/94	1	6.5	N	N	NA	NA	
7J07-02	7/20/94		6.5					
7J07-03			7.0					
7J07-04			8.0					
7J07-05			8.0					
7J07-06			8.5					
7J07-07			8.0					
7J07-08			9.5					
7J07-09			7.5					

FIDLER SURVEY

PG 101 AOC 7

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 PROJECT NO.: 34896

LOCATION GRID ID	DATE OF SURVEY	FIDLER No.	OUTCHANNEL READING (X1000)	AUDIBLE (Y/N)	CONTAMINATED? Y/N	CONTAMINATED? SECTOR	REF	COMMENTS
7J07-10	7/26/94	1	6.0	N	N	NA	NA	
7J07-11			5.5					
7J07-12			6.0					
7J07-13			7.0					
7J07-14			8.5					
7J07-15			7.5					
7J07-16			6.5					
7J07-17			6.5					
7J07-18			6.0					
7J07-19			6.5					
7J07-20			6.0					
7J07-21			6.5					
7J07-22			6.0					
7J07-23			6.0					
7J07-24			7.0					
7J07-25			6.5					
7K07								
7K07-01	7/26/94	1	7.0	N	N	NA	NA	
7K07-02	~~7/20/94~~ 7/21/94	1	6.5	N	N	NA	NA	
7K07-03	7/21/94	1	6.5	N	N	NA	NA	
7K07-04	7/21/94	1	6.0	N	N	NA	NA	
7K07-05			5.5					
7K07-06			5.5					
7K07-07			5.5					
7K07-08			5.5					
7K07-09	7-21-94	1	6.5	N	N	NA	NA	
7K07-10			6.0					
7K07-11			6.5					
7K07-12			6.5					
7K07-13			6.5					
7K07-14	7/21/94	1	6.0	N	N	NA	NA	
7K07-15			6.0					
7K07-16			6.0					
7K07-17			5.5					

102

FIDLER SURVEY

PG 102 ADL 7

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 PROJECT NO.: 34896

LOCATION GRID ID	DATE OF SURVEY	FIDLER No.	OUTCHANNEL READING (X1000)	AUDIBLE (Y/N)	CONTAMINATED? Y/N	CONTAMINATED? SECTOR	REF	COMMENTS
7K07-18	7/21/94	1	6.5	N	N	NA	NA	
7K07-19			6.5					
7K07-20			6.0					
7K07-21			6.0					
7K07-22			6.0					
7K07-23			6.5					
7K07-24	7/21/94	1	5.5	N	N	NA	NA	
7K07-25			6.0					
7L07								
7L07-01	7/21/94	1	6.0	N	N	NA	NA	
7L07-02			5.5					
7L07-03			6.0					
7L07-04			8.5	N	N	NA	NA	
7L07-05			5.5	N	N	NA	NA	
7L07-06			6.0					
7L07-07			6.0					
7L07-08			5.5					
7L07-09			5.5					
7L07-10			5.5					
7L07-11			5.5					
7L07-12			5.5					
7L07-13			5.5					
7L07-14			5.5					
7L07-15			5.5					
7L07-16			5.0					
7L07-17			5.0					
7L07-18			5.5					
7L07-19			6.0					
7L07-20			5.5					
7L07-21			5.0					
7L07-22			5.0					
7L07-23			5.5					
7L07-24			5.5					
7L07-25			5.5					

FIDLER SURVEY

PG 103

AOC 7

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1

PROJECT NO.: 34896

LOCATION GRID ID	DATE OF SURVEY	FIDLER No.	OUTCHANNEL READING (X1000)	AUDIBLE (Y/N)	CONTAMINATED? Y/N	CONTAMINATED? SECTOR	REF	COMMENTS
7M07								
7F08								
7F08-01	7-19-94	2	8.0	N	N	NA	NA	
7F08-02			34.0		Y	SW	pg 2	
7F08-03			23.0		Y	whole	pg 2	
7F08-04			17.0		Y	whole	pg 2	
7F08-05			11.0		Y	NA	NA	
7F08-06			6.5		N	NA	NA	
7F08-07			11.0		Y	NA	NA	
7F08-08			15.0		N	whole	pg 2	
7F08-09			23.0		Y	whole	pg 2	
7F08-10			8.0		N	NA	NA	
7F08-11			SB 7-19 ~~6.0~~ 5.5					
7F08-12			6.0					
7F08-13			6.5					
7F08-14			5.5					
7F08-15			SB 7-19 ~~5.5~~ 5.5					
7F08-16			6.0					
7F08-17			5.5					
7F08-18			5.5					
7F08-19			5.5					
7F08-20			5.5					
7F08-21			5.5					
7F08-22			5.5					
7F08-23			5.5					
7F08-24			5.5					
7F08-25			5.5					
7G08								
7G08-01	7/20/94		8.5	N	N	NA	NA	
7G08-02			6.5					
7G08-03			6.5					
7G08-04			6.0					

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FIDLER SURVEY

PG 104 ADC 7

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 PROJECT NO.: 34896

LOCATION GRID ID	DATE OF SURVEY	FIDLER No.	OUTCHANNEL READING (X1000)	AUDIBLE (Y/N)	CONTAMINATED? Y/N	CONTAMINATED? SECTOR	REF	COMMENTS
7G08-05	7/20/94	1	5.5	N	N	NA	NA	
7G08-06			5.5					
7G08-07			6.0					
7G08-08			6.0					
7G08-09			6.5					
7G08-10			7.0					
7G08-11			6.5					
7G08-12			6.5					
7G08-13			6.5					
7G08-14			6.0					
7G08-15			5.5					
7G08-16			6.0					
7G08-17			6.5					
7G08-18			6.0					
7G08-19			6.5					
7G08-20			6.5					
7G08-21			6.5					
7G08-22			6.5					
7G08-23			6.0					
7G08-24			6.0					
7G08-25			5.5					
7H08								
7H08-01	7-20-94	1	6.0	N	N	NA	NA	
7H08-02			10.0					
7H08-03			6.0					
7H08-04			5.5					
7H08-05			6.0					
7H08-06			5.5					
7H08-07			6.0					
7H08-08			5.5					
7H08-09			5.5					
7H08-10			6.5					
7H08-11			6.5					
7H08-12			6.5					

FIDLER SURVEY

Pg 105 AOC 7

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 PROJECT NO.: 34896

LOCATION GRID ID	DATE OF SURVEY	FIDLER No.	OUTCHANNEL READING (X1000)	AUDIBLE (Y/N)	CONTAMINATED? Y/N	CONTAMINATED? SECTOR	REF	COMMENTS
7H08-13	7-20-94	1	6.5	N	N	NA	NA	
7H08-14			6.0					
7H08-15			6.0					
7H08-16			6.0					
7H08-17			6.0					
7H08-18			6.0					
7H08-19			5.5					
7H08-20			5.5					
7H08-21			6.0					
7H08-22			6.0					
7H08-23			5.5					
7H08-24			6.0					
7H08-25			5.5					
7I08								
7I08-01	7-20-94	1	6.0	N	N	NA	NA	
7I08-02			6.0					
7I08-03			6.0					
7I08-04			6.0					
7I08-05			6.0					
7I08-06			5.5					
7I08-07			5.5					
7I08-08			6.0					
7I08-09			6.0					
7I08-10			6.0					
7I08-11			6.0					
7I08-12			5.5					
7I08-13			5.5					
7I08-14			6.0					
7I08-15			5.5					
7I08-16			5.5					
7I08-17			6.0					
7I08-18			6.0					
7I08-19			6.0					
7I08-20			5.5					

FIDLER SURVEY

PG 106 ADC 7

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 PROJECT NO.: 34896

LOCATION GRID ID	DATE OF SURVEY	FIDLER No.	OUTCHANNEL READING (X1000)	AUDIBLE (Y/N)	CONTAMINATED? Y/N	CONTAMINATED? SECTOR	REF	COMMENTS
7I08-21	7-20-94	1	6.0	N	N	NA	NA	
7I08-22			6.0					
7I08-23			6.0					
7I08-24			5.5					
7I08-25			5.5					
7J08								
7J08-01	7/26/94	1	5.5	N	N	NA	NA	
7J08-02			6.0					
7J08-03			6.0					
7J08-04			6.5					
7J08-05			6.0					
7J08-06			6.5					
7J08-07			6.5					
7J08-08			6.0					
7J08-09			5.5					
7J08-10			5.5					
7J08-11			6.0					
7J08-12			6.0					
7J08-13			6.0					
7J08-14			6.5					
7J08-15			6.0					
7J08-16			5.5 ~~6.0~~ typical					
7J08-17			5.5					
7J08-18			6.0					
7J08-19			6.0					
7J08-20			6.0					
7J08-21			5.5					
7J08-22			5.5					
7J08-23			6.0					
7J08-24			5.5					
7J08-25			5.5					
7K08								
7K08-01	7-21-94	1	6.5	N	N	NA	NA	

FIDLER SURVEY

PG 107 AOC 7

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 PROJECT NO.: 34896

LOCATION GRID ID	DATE OF SURVEY	FIDLER No.	OUTCHANNEL READING (X1000)	AUDIBLE (Y/N)	CONTAMINATED? Y/N	CONTAMINATED? SECTOR	REF	COMMENTS
7K08-02	7-21-94	1	6.5	N	N	NA	NA	
7K08-03			6.5					
7K08-04			6.0					
7K08-05			6.0					
7K08-06			6.0					
7K08-07			6.5					
7K08-08			6.5					
7K08-09			6.5					
7K08-10	7/21/94	1	5.5	N	N	NA	NA	
7K08-11			6.0					
7K08-12			6.5					
7K08-13	7/21/94	1	6.5	N	N	NA	NA	
7K08-14			6.0					
7K08-15			5.5					
7K08-16			6.0					
7K08-17			6.0					
7K08-18			6.5					
7K08-19	7/21/94	1	6.0	N	N	NA	NA	
7K08-20			5.5					
7K08-21			6.0					
7K08-22			5.0					
7K08-23	7/21/94	1	6.5	N	N	NA	NA	
7K08-24			6.5					
7K08-25			6.0					
7L08								
7L08-01	7-21-94	1	6.0	N	N	NA	NA	
7L08-02			SB 7-21-94 ~~5.0~~ 6.0					
7L08-03			5.0					
7L08-04			5.0					
7L08-05			5.0					
7L08-06			5.0					
7L08-07			5.5					
7L08-08			6.0					
7L08-09			5.5					

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FIDLER SURVEY

Pg 108 ADC 7

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 PROJECT NO.: 34896

LOCATION GRID ID	DATE OF SURVEY	FIDLER No.	OUTCHANNEL READING (X1000)	AUDIBLE (Y/N)	CONTAMINATED? Y/N	CONTAMINATED? SECTOR	REF	COMMENTS
7L08-10	7-21-94	1	5.5	N	N	NA	NA	
7L08-11	↓	↓	5.5	↓	↓	↓	↓	
7L08-12	↓	↓	6.0	↓	↓	↓	↓	
7L08-13	↓	↓	6.0	↓	↓	↓	↓	
7L08-14	↓	↓	5.5	↓	↓	↓	↓	
7L08-15	↓	↓	5.5	↓	↓	↓	↓	
7L08-16	↓	↓	5.5	↓	↓	↓	↓	
7L08-17	↓	↓	6.0	↓	↓	↓	↓	
7L08-18	↓	↓	5.5	↓	↓	↓	↓	
7L08-19	↓	↓	6.0	↓	↓	↓	↓	
7L08-20	↓	↓	5.5	↓	↓	↓	↓	
7L08-21	↓	↓	6.0	↓	↓	↓	↓	
7L08-22	↓	↓	5.5	↓	↓	↓	↓	
7L08-23	↓	↓	6.0	↓	↓	↓	↓	
7L08-24	↓	↓	6.0	↓	↓	↓	↓	
7L08-25	↓	↓	6.0	↓	↓	↓	↓	
7M08								
7F09								NO POINT
7F09-01								
7F09-02								
7F09-03								
7F09-04			PMP					
7F09-05			8/26/94					
7F09-06								
7F09-07								
7F09-08								
7F09-09								
7F09-10								
7F09-11								
7F09-12								
7F09-13								
7F09-14								
7F09-15								

FIDLER SURVEY

PG 109 AOC 7

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 PROJECT NO.: 34896

LOCATION GRID ID	DATE OF SURVEY	FIDLER No.	OUTCHANNEL READING (X1000)	AUDIBLE (Y/N)	CONTAMINATED? Y/N	CONTAMINATED? SECTOR	REF	COMMENTS
7F09-16								
7F09-17								
7F09-18								
7F09-19								
7F09-20								
7F09-21			8/26/94					
7F09-22								
7F09-23								
7F09-24								
7F09-25								
7G09								
7G09-01	7-20-94	1	6.5	N	N	NA	NA	
7G09-02			6.5					
7G09-03			6.0					
7G09-04			6.0					
7G09-05			6.0					
7G09-06			6.0					
7G09-07			6.0					
7G09-08			6.0					
7G09-09			6.0					
7G09-10			5.5					
7G09-11			5.5					
7G09-12			5.5					
7G09-13			5.5					
7G09-14			6.0					
7G09-15			6.0					
7G09-16			6.0					
7G09-17			5.5					
7G09-18			5.5					
7G09-19			5.5					
7G09-20			4.5					
7G09-21			5.5					
7G09-22			5.5					
7G09-23			6.0					

110

FIDLER SURVEY

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 PG 110 AOC 7 PROJECT NO.: 34896

LOCATION GRID ID	DATE OF SURVEY	FIDLER No.	OUTCHANNEL READING (X1000)	AUDIBLE (Y/N)	CONTAMINATED? Y/N	CONTAMINATED? SECTOR	REF	COMMENTS
7G09-24	7-20-94	1	6.0	N	N	NA	NA	
7G09-25	7-20-94	1	6.0	N	N	NA	NA	
7H09								
7H09-01	7/20/94	1	6.0	N	N	NA	NA	
7H09-02			5.5					
7H09-03			5.5					
7H09-04			5.5					
7H09-05			5.5					
7H09-06			5.5					
7H09-07			5.5					
7H09-08			6.0					
7H09-09			6.0					
7H09-10			5.5					
7H09-11			5.5					
7H09-12			5.5					
7H09-13			5.5					
7H09-14			6.0					
7H09-15			5.5					
7H09-16			5.5					
7H09-17			5.5					
7H09-18			5.5					
7H09-19			5.5					
7H09-20			6.0					
7H09-21			5.5					
7H09-22			5.5					
7H09-23			5.5					
7H09-24			5.5					
7H09-25			6.0					
7I09								
7I09-01	7-20-94	1	5.0	N	N	NA	NA	
7I09-02			5.5					
7I09-03			5.5					
7I09-04			5.0					

FIDLER SURVEY

PG 112 AOC 7

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 PROJECT NO.: 34896

LOCATION GRID ID	DATE OF SURVEY	FIDLER No.	OUTCHANNEL READING (X1000)	AUDIBLE (Y/N)	CONTAMINATED? Y/N	CONTAMINATED? SECTOR	REF	COMMENTS
7I09-05	7-20-94	1	6.0	N	N	NA	NA	
7I09-06			6.0					
7I09-07			5.5					
7I09-08			6.0					
7I09-09			5.5					
7I09-10			5.5					
7I09-11			5.0					
7I09-12			5.0					
7I09-13			5.0					
7I09-14			5.5					
7I09-15			5.5					
7I09-16			5.0					
7I09-17			5.0					
7I09-18			5.0					
7I09-19			5.0					
7I09-20			5.0					
7I09-21			5.0					
7I09-22			5.0					
7I09-23			6.0					
7I09-24			6.0					
7I09-25			7.0					
7J09								
7J09-01	7/26/94	1	6.0	N	N	NA	NA	
7J09-02			6.0					
7J09-03			6.5					
7J09-04			5.5					
7J09-05			6.0					
7J09-06			6.5					
7J09-07			5.5					
7J09-08			5.5					
7J09-09			6.0					
7J09-10			5.5					
7J09-11			6.0					
7J09-12			6.5					

112

FIDLER SURVEY

PG 112 Apc 7

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 PROJECT NO.: 34896

LOCATION GRID ID	DATE OF SURVEY	FIDLER No.	OUTCHANNEL READING (X1000)	AUDIBLE (Y/N)	CONTAMINATED? Y/N	CONTAMINATED? SECTOR	REF	COMMENTS
7J09-13	7/26/94	1	6.0	N	N	NA	NA	
7J09-14			5.5					
7J09-15			6.0					
7J09-16			6.0					
7J09-17			6.0					
7J09-18			6.0					
7J09-19			5.5					
7J09-20			5.5					
7J09-21			6.0					
7J09-22			5.5					
7J09-23			6.0					
7J09-24			6.0					
7J09-25			6.0					
7K09								
7K09-01	7/21/94	1	5.5	N	N	NA	NA	
7K09-02			7.5					
7K09-03			7.5					
7K09-04	7/21/94	1	6.0	N	N	NA	NA	
7K09-05			6.5					
7K09-06			6.5					
7K09-07			6.5					
7K09-08	7/21/94	1	8.5	N	N	NA	NA	
7K09-09			6.0					
7K09-10			5.5					
7K09-11			6.5					
7K09-12			6.0					
7K09-13			8.5					
7K09-14			7.0					
7K09-15	~~7/26/94~~ 7/21/94	1	6.5	N	N	NA	NA	
7K09-16	7/21/94	1	8.0	N				
7K09-17			7.5					
7K09-18			6.0					
7K09-19			5.5					
7K09-20			5.0					

FIDLER SURVEY

PG 113 AOC 7

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 PROJECT NO.: 34896

LOCATION GRID ID	DATE OF SURVEY	FIDLER No.	OUTCHANNEL READING (X1000)	AUDIBLE (Y/N)	CONTAMINATED? Y/N	CONTAMINATED? SECTOR	REF	COMMENTS
7K09-21	7/21/94	1	5.0	N	N	NA	NA	
7K09-22	↓	↓	6.0	↓	↓	↓	↓	
7K09-23	↓	↓	6.5	↓	↓	↓	↓	
7K09-24	↓	↓	8.0	↓	↓	↓	↓	
7K09-25	↓	↓	6.5	↓	↓	↓	↓	
7L09								
7L09-01	7-21-94	1	6.0	N	N	NA	NA	
7L09-02	↓	↓	6.5	↓	↓	↓	↓	
7L09-03	↓	↓	5.5	↓	↓	↓	↓	
7L09-04	↓	↓	6.0	↓	↓	↓	↓	
7L09-05	↓	↓	6.0	↓	↓	↓	↓	
7L09-06	↓	↓	6.0	↓	↓	↓	↓	
7L09-07	↓	↓	6.0	↓	↓	↓	↓	
7L09-08	↓	↓	6.0	↓	↓	↓	↓	
7L09-09	↓	↓	6.0	↓	↓	↓	↓	
7L09-10	↓	↓	6.5	↓	↓	↓	↓	
7L09-11	↓	↓	6.5	↓	↓	↓	↓	
7L09-12	↓	↓	6.5	↓	↓	↓	↓	
7L09-13	↓	↓	6.0	↓	↓	↓	↓	
7L09-14	↓	↓	6.0	↓	↓	↓	↓	
7L09-15	↓	↓	6.0	↓	↓	↓	↓	
7L09-16	↓	↓	6.0	↓	↓	↓	↓	
7L09-17	↓	↓	6.0	↓	↓	↓	↓	
7L09-18	↓	↓	7.5	↓	↓	↓	↓	
7L09-19	↓	↓	7.0	↓	↓	↓	↓	
7L09-20	↓	↓	6.5	↓	↓	↓	↓	
7L09-21	↓	↓	7.0	↓	↓	↓	↓	
7L09-22	↓	↓	7.0	↓	↓	↓	↓	
7L09-23	↓	↓	7.0	↓	↓	↓	↓	
7L09-24	↓	↓	7.0	↓	↓	↓	↓	
7L09-25	↓	↓	6.0	↓	↓	↓	↓	
7M09								

114

FIDLER SURVEY

PG 114 ADC 7

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 PROJECT NO.: 34896

LOCATION GRID ID	DATE OF SURVEY	FIDLER No.	OUTCHANNEL READING (X1000)	AUDIBLE (Y/N)	CONTAMINATED? Y/N	CONTAMINATED? SECTOR	REF	COMMENTS
7F10								No Point
7F10-01								
7F10-02								
7F10-03								
7F10-04								
7F10-05								
7F10-06								
7F10-07								
7F10-08								
7F10-09								
7F10-10								
7F10-11								
7F10-12			8/26/94					
7F10-13								
7F10-14								
7F10-15								
7F10-16								
7F10-17								
7F10-18								
7F10-19								
7F10-20								
7F10-21								
7F10-22								
7F10-23								
7F10-24								
7F10-25								
7G10								
7G10-01	7/19/94	2	4.0	N	N	NA	NA	
7G10-02			4.5					
7G10-03			4.5					
7G10-04			5.0					
7G10-05			4.5					
7G10-06			4.5					
7G10-07			4.5					

FIDLER SURVEY

PG 115

ADC 7

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1

PROJECT NO.: 34896

LOCATION GRID ID	DATE OF SURVEY	FIDLER No.	OUTCHANNEL READING (X1000)	AUDIBLE (Y/N)	CONTAMINATED? Y/N	CONTAMINATED? SECTOR	REF	COMMENTS
7G10-08	7/19/94	2	4.0	N	N	NA	NA	
7G10-09			NA	NA	NA	NA	NA	BLDG 66
7G10-10								
7G10-11								
7G10-12								
7G10-13	7/19/94	2	4.0	N	N	NA	NA	
7G10-14			4.0					
7G10-15			5.0					
7G10-16			4.5					
7G10-17			4.0					
7G10-18			4.0					
7G10-19	7/19/94	2	NA	NA	NA	NA	NA	BLDG 66
7G10-20								
7G10-21								
7G10-22								
7G10-23	7/19/94	2	4.0	N	N	NA	NA	
7G10-24			4.0					
7G10-25			5.0					
7H10								
7H10-01	7-20-94	1	6.0	N	N	NA	NA	
7H10-02			6.0					
7H10-03			6.0					
7H10-04			5.5					
7H10-05			5.5					
7H10-06			5.5					
7H10-07			6.0					
7H10-08			6.0					
7H10-09			5.5					
7H10-10			5.5					
7H10-11			5.5					
7H10-12			~~5.5~~ 6.0					
7H10-13			6.0					
7H10-14			5.5					
7H10-15			6.0					

116

FIDLER SURVEY

PG 116 AOC 7

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 PROJECT NO.: 34896

LOCATION GRID ID	DATE OF SURVEY	FIDLER No.	OUTCHANNEL READING (X1000)	AUDIBLE (Y/N)	CONTAMINATED? Y/N	CONTAMINATED? SECTOR	REF	COMMENTS
7H10-16	7-20-94	1	6.0	N	N	NA	NA	
7H10-17			5.5					
7H10-18			6.0					
7H10-19			6.0					
7H10-20			6.0					
7H10-21			6.0					
7H10-22			6.0					
7H10-23			6.0					
7H10-24			6.5					
7H10-25			6.5					
7I10								
7I10-01	7/19/94	2	4.5	N	N	NA	NA	
7I10-02			5.5					
7I10-03			5.5					
7I10-04			5.5					
7I10-05			6.0					
7I10-06			7.5					
7I10-07			7.5					
7I10-08			6.0					
7I10-09			5.0					
7I10-10			4.0					
7I10-11			6.0					
7I10-12			6.0					
7I10-13			6.0					
7I10-14			7.0					
7I10-15			7.5					
7I10-16			8.0					
7I10-17			7.5					
7I10-18			6.5					
7I10-19			6.5					
7I10-20			6.5					
7I10-21			6.5					
7I10-22			7.5					
7I10-23			7.5					

FIDLER SURVEY

PG 117

AOC 7

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1

PROJECT NO.: 34896

LOCATION GRID ID	DATE OF SURVEY	FIDLER No.	OUTCHANNEL READING (X1000)	AUDIBLE (Y/N)	CONTAMINATED? Y/N	CONTAMINATED? SECTOR	REF	COMMENTS
7I10-24	7/19/94	2	6.5	N	N	NA	NA	
7I10-25	↓	↓	6.5	↓	↓	↓	↓	
7J10								
7J10-01	7/25/94	1	6.5	N	N	NA	NA	
7J10-02	↓	↓	6.0	↓	↓	↓	↓	
7J10-03			6.0					
7J10-04			5.5					
7J10-05			6.0					
7J10-06			6.0					
7J10-07			6.0					
7J10-08	↓	↓	5.5	↓	↓	↓	↓	
7J10-09	7/25/94	1	5.5	N	N	NA	NA	
7J10-10	↓	↓	8.0	↓	↓	↓	↓	
7J10-11			9.0					
7J10-12	↓	↓	8.5	↓	↓	↓	↓	
7J10-13	7/25/94	1	6.0	N	N	NA	NA	
7J10-14	↓	↓	5.5	↓	↓	↓	↓	
7J10-15			5.5					
7J10-16			6.0					
7J10-17			6.0					
7J10-18	↓	↓	6.0	↓	↓	↓	↓	
7J10-19	7/25/94	1	8.5	N	N	NA	NA	
7J10-20	↓	↓	8.5	↓	↓	↓	↓	
7J10-21			8.5					
7J10-22			8.0					
7J10-23			5.5					
7J10-24			6.0					
7J10-25	↓	↓	6.0	↓	↓	↓	↓	
7K10								
7K10-01	7/25/94	1	5.5	N	N	NA	NA	
7K10-02	↓	↓	5.5	↓	↓	↓	↓	
7K10-03			5.5					
7K10-04	↓	↓	7.0	↓	↓	↓	↓	

FIDLER SURVEY

PG 118 ADL 7

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 PROJECT NO.: 34896

LOCATION GRID ID	DATE OF SURVEY	FIDLER No.	OUTCHANNEL READING (X1000)	AUDIBLE (Y/N)	CONTAMINATED? Y/N	CONTAMINATED? SECTOR	REF	COMMENTS
7K10-05	7/25/94	1	7.5	N	N	NA	NA	
7K10-06			7.5					
7K10-07			8.0					
7K10-08			6.5					
7K10-09			5.5					
7K10-10			5.0					
7K10-11			5.5					
7K10-12			5.5					
7K10-13			6.0					
7K10-14			7.5					
7K10-15			8.5					
7K10-16			7.0					
7K10-17			5.0					
7K10-18			5.0					
7K10-19			5.0					
7K10-20			5.0					
7K10-21			5.0					
7K10-22			5.5					
7K10-23			5.0					
7K10-24			5.5					
7K10-25			6.0					
7L10								
7L10-01	7/21/94	1	6.5	N	N	NA	NA	
7L10-02			7.0					
7L10-03			7.5					
7L10-04			7.0					
7L10-05	7/21/94	1	5.0	N	N	NA	NA	
7L10-06			5.5					
7L10-07	7/21/94	1	7.0	N	N	NA	NA	
7L10-08			7.0					
7L10-09			7.0					
7L10-10			7.0					
7L10-11	7/25/94	1	8.0	N	N	NA	NA	
7L10-12			7.0					

FIDLER SURVEY

PG 119

AOC 7

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1

PROJECT NO.: 34896

LOCATION GRID ID	DATE OF SURVEY	FIDLER No.	OUTCHANNEL READING (X1000)	AUDIBLE (Y/N)	CONTAMINATED? Y/N	CONTAMINATED? SECTOR	REF	COMMENTS
7L10-13	7/21/94	1	6.5	N	N	NA	NA	
7L10-14	↓	↓	6.5	↓	↓	↓	↓	
7L10-15	↓	↓	7.0	↓	↓	↓	↓	
7L10-16	↓	↓	7.5	↓	↓	↓	↓	
7L10-17	↓	↓	7.0	↓	↓	↓	↓	
7L10-18	↓	↓	6.5	↓	↓	↓	↓	
7L10-19	7/21/94	1	7.0	N	N	NA	NA	
7L10-20	↓	↓	7.5	↓	↓	↓	↓	
7L10-21	↓	↓	7.0	↓	↓	↓	↓	
7L10-22	↓	↓	7.5	↓	↓	↓	↓	
7L10-23	↓	↓	8.0	↓	↓	↓	↓	
7L10-24	7/21/94	1	6.5	N	N	NA	NA	
7L10-25	7/21/94	1	6.5	N	N	NA	NA	
7M10								
7F11								NO POINT
7F11-01								
7F11-02								
7F11-03								
7F11-04								
7F11-05								
7F11-06			8/26/94					
7F11-07								
7F11-08								
7F11-09								
7F11-10								
7F11-11								
7F11-12								
7F11-13								
7F11-14								
7F11-15								
7F11-16								
7F11-17								
7F11-18								

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FIDLER SURVEY

PG 120

ADC 7

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1

PROJECT NO.: 34896

LOCATION GRID ID	DATE OF SURVEY	FIDLER No.	OUTCHANNEL READING (X1000)	AUDIBLE (Y/N)	CONTAMINATED? Y/N	CONTAMINATED? SECTOR	REF	COMMENTS
7F11-19								
7F11-20								
7F11-21								
7F11-22			PMP					
7F11-23			8/26/94					
7F11-24								
7F11-25								
7G11								
7G11-01	7-19-94	2	NA	NA	NA	NA	NA	Building 60
7G11-02								
7G11-03								
7G11-04			4.5	N	N			
7G11-05			5.5					
7G11-06			5.0					
7G11-07			4.5					
7G11-08			4.5					
7G11-09			4.0					
7G11-10			4.0					
7G11-11			4.0					
7G11-12			4.5					
7G11-13			4.0					
7G11-14			5.0					
7G11-15			5.0					
7G11-16			4.5					
7G11-17			4.5					
7G11-18			4.5					
7G11-19			4.0					
7G11-20			4.0					
7G11-21			4.0					
7G11-22			4.5					
7G11-23			4.5					
7G11-24			5.0					
7G11-25			5.5					

FIDLER SURVEY

PG 121

AOC 7

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1

PROJECT NO.: 34896

LOCATION GRID ID	DATE OF SURVEY	FIDLER No.	OUTCHANNEL READING (X1000)	AUDIBLE (Y/N)	CONTAMINATED? Y/N	CONTAMINATED? SECTOR	REF	COMMENTS
7H11								
7H11-01	7/19/94	2	5.0	N	N	NA	NA	
7H11-02			5.5					
7H11-03			5.5					
7H11-04			5.5					
7H11-05			5.5					
7H11-06			5.0					
7H11-07			5.5					
7H11-08			5.5					
7H11-09			5.5					
7H11-10			5.5					
7H11-11			5.0					
7H11-12			5.5					
7H11-13			5.5					
7H11-14			5.5					
7H11-15			5.5					
7H11-16			5.5					
7H11-17			5.5					
7H11-18			5.5					
7H11-19			5.5					
7H11-20			5.5					
7H11-21			5.5					
7H11-22			5.5					
7H11-23			5.0					
7H11-24			6.0					
7H11-25			6.0					
7I11								
7I11-01	7-19-94	2	6.0	N	N	NA	NA	
7I11-02			6.5					
7I11-03			7.0					
7I11-04			8.0					
7I11-05			7.5					
7I11-06			7.0					
7I11-07			8.5					

FIDLER SURVEY

PG 122 AOC 7

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 PROJECT NO.: 34896

LOCATION GRID ID	DATE OF SURVEY	FIDLER No.	OUTCHANNEL READING (X1000)	AUDIBLE (Y/N)	CONTAMINATED? Y/N	CONTAMINATED? SECTOR	REF	COMMENTS
7I11-08	7-19-94	2	8.5	N	N	NA	NA	
7I11-09			6.5					
7I11-10			6.0					
7I11-11			6.0					
7I11-12			6.5					
7I11-13			7.5					
7I11-14			8.0					
7I11-15			7.5					
7I11-16			6.0					
7I11-17			6.0					
7I11-18			6.0					
7I11-19			6.0					
7I11-20			5.5					
7I11-21			6.0					
7I11-22			5.5					
7I11-23			5.5					
7I11-24			5.5					
7I11-25			6.0					
7J11								
7J11-01	7/25/94	1	8.0	N	N	NA	NA	
7J11-02			8.5					
7J11-03			7.5					
7J11-04			7/25 ~~8.0~~ 5.0					
7J11-05	7/25/94	1	5.5	N	NO	NA	NA	
7J11-06	7/25/94	1	5.5	N	N	NA	NA	
7J11-07			5.0					
7J11-08			8.0					
7J11-09			8.5					
7J11-10			8.0					
7J11-11			8.5					
7J11-12			8.0					
7J11-13			7.5					
7J11-14			7.5					
7J11-15			5.0					

FIDLER SURVEY

PG 123

AOC 7

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1

PROJECT NO.: 34896

LOCATION GRID ID	DATE OF SURVEY	FIDLER No.	OUTCHANNEL READING (X1000)	AUDIBLE (Y/N)	CONTAMINATED? Y/N	CONTAMINATED? SECTOR	REF	COMMENTS
7J11-16	7/25/94	1	5.0	N	N	NA	NA	
7J11-17			6.5					
7J11-18			7.0					
7J11-19			7.0					
7J11-20			7.0					
7J11-21			5.5					
7J11-22			5.5					
7J11-23			5.5					
7J11-24			5.5					
7J11-25			SB 7-25 ~~5.6~~ 6.0					
7K11								
7K11-01	7/25/94	1	5.5	N	N	NA	NA	
7K11-02			6.0					
7K11-03			5.5					
7K11-04			5.0					
7K11-05			5.5					
7K11-06			6.0					
7K11-07			5.5					
7K11-08			5.5					
7K11-09			5.5					
7K11-10			5.5					
7K11-11			5.0					
7K11-12			6.0					
7K11-13			6.0					
7K11-14			5.0					
7K11-15			5.5					
7K11-16			5.5					
7K11-17			6.0					
7K11-18			6.0					
7K11-19			5.5					
7K11-20			5.0					
7K11-21			5.0					
7K11-22			5.5					
7K11-23			6.0					

FIDLER SURVEY

PG 124

AOC 7

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1

PROJECT NO.: 34896

LOCATION GRID ID	DATE OF SURVEY	FIDLER No.	OUTCHANNEL READING (X1000)	AUDIBLE (Y/N)	CONTAMINATED? Y/N	CONTAMINATED? SECTOR	REF	COMMENTS
7K11-24	7/25/94	1	5.5	N	N	NA	NA	
7K11-25	7/25/94	1	6.0	N	N	NA	NA	
7L11								
7L11-01	7/21/94	1	6.5	N	N	NA	NA	
7L11-02			6.5					
7L11-03			6.5					
7L11-04	7/21/94	1	6.5	N	N	NA	NA	
7L11-05	7-21-94		6.5					
7L11-06			6.0					
7L11-07			6.0					
7L11-08	7/21/94	1	6.5	N	N	NA	NA	
7L11-09			6.5					
7L11-10			6.5					
7L11-11			6.5					
7L11-12			6.5					
7L11-13			7.5					
7L11-14			6.5					
7L11-15	7/21/94	1	5.5	N	N	NA	NA	
7L11-16	7/21/94	1	7.5	N	N	NA	NA	
7L11-17			7.0					
7L11-18			6.5					
7L11-19			6.5					
7L11-20			6.0					
7L11-21			6.0					
7L11-22			6.0					
7L11-23			6.5					
7L11-24			6.5					
7L11-25			7.0					
7M11								
7F12								NO POINT
7F12-01								
7F12-02								

FIDLER SURVEY

PG 125 — ADC 7

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1

PROJECT NO.: 34896

LOCATION GRID ID	DATE OF SURVEY	FIDLER No.	OUTCHANNEL READING (X1000)	AUDIBLE (Y/N)	CONTAMINATED?- Y/N	SECTOR	REF	COMMENTS
7F12-03								
7F12-04								
7F12-05								
7F12-06								
7F12-07								
7F12-08								
7F12-09								
7F12-10								
7F12-11								
7F12-12								
7F12-13			PM					
7F12-14			8/26/94					
7F12-15								
7F12-16								
7F12-17								
7F12-18								
7F12-19								
7F12-20								
7F12-21								
7F12-22								
7F12-23								
7F12-24								
7F12-25								
7G12								
7G12-01	7/19/94	Z	4.0	N	N	NA	NA	
7G12-02			4.5					
7G12-03			4.5					
7G12-04			4.5					
7G12-05			5.5					
7G12-06			5.0					
7G12-07			4.5					
7G12-08			4.0					
7G12-09			4.0					
7G12-10			4.0					

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FIDLER SURVEY

PG 126 AOC 7

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 PROJECT NO.: 34896

LOCATION GRID ID	DATE OF SURVEY	FIDLER No.	OUTCHANNEL READING (X1000)	AUDIBLE (Y/N)	CONTAMINATED? Y/N	CONTAMINATED? SECTOR	REF	COMMENTS
7G12-11	7/19/94	2	4.0	N	N	NA	NA	
7G12-12			5.0					
7G12-13			4.0					
7G12-14			5.0					
7G12-15			5.5					
7G12-16			5.0					
7G12-17			4.0					
7G12-18			4.5					
7G12-19			4.0					
7G12-20			4.0					
7G12-21			4.5					
7G12-22			5.0					
7G12-23			4.5					
7G12-24			4.0					
7G12-25			4.5					
7H12								
7H12-01	7-19-94	2	5.5	N	N	NA	NA	
7H12-02			5.5					
7H12-03			JB 7-19-94 ~~5.5~~ 5.5					
7H12-04			5.5					
7H12-05			6.5					
7H12-06			8.0					
7H12-07			6.5					
7H12-08			5.5					
7H12-09			5.5					
7H12-10			5.5					
7H12-11			5.5					
7H12-12			5.5					
7H12-13			5.5					
7H12-14			10.5					
7H12-15			8.5					
7H12-16			7.5					
7H12-17			6.5					
7H12-18			5.5					

FIDLER SURVEY

PG 127

AOC 7

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1

PROJECT NO.: 34896

LOCATION GRID ID	DATE OF SURVEY	FIDLER No.	OUTCHANNEL READING (X1000)	AUDIBLE (Y/N)	CONTAMINATED? Y/N	CONTAMINATED? SECTOR	REF	COMMENTS
7H12-19	7-19-94	2	5.5	N	N	NA	NA	
7H12-20			5.0					
7H12-21			5.0					
7H12-22			5.0					
7H12-23			5.5					
7H12-24			6.5					
7H12-25			8.5					
7I12								
7I12-01	7-19-94	2	8.0	N	N	NA	NA	
7I12-02			7.0					
7I12-03			6.5					
7I12-04			6.5					
7I12-05			6.0					
7I12-06			6.5					
7I12-07			6.5					
7I12-08			7.0					
7I12-09			7.5					
7I12-10			8.0					
7I12-11			8.0					
7I12-12			8.0					
7I12-13			7.0					
7I12-14			6.5					
7I12-15			6.5					
7I12-16			7.5					
7I12-17			7.0					
7I12-18			8.0					
7I12-19			7.5					
7I12-20			7.5					
7I12-21			8.0					
7I12-22			8.5					
7I12-23			8.0					
7I12-24			7.0					
7I12-25			7.0					

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FIDLER SURVEY

PG 128 ADC 7

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 PROJECT NO.: 34896

LOCATION GRID ID	DATE OF SURVEY	FIDLER No.	OUTCHANNEL READING (X1000)	AUDIBLE (Y/N)	CONTAMINATED? Y/N	CONTAMINATED? SECTOR	REF	COMMENTS
7J12								
7J12-01	7/19/94	2	5.5	N	N	NA	NA	
7J12-02			6.0					
7J12-03			6.5					
7J12-04			6.5					
7J12-05			6.5					
7J12-06			6.5					
7J12-07			7.5					
7J12-08			7.5					
7J12-09			7.0					
7J12-10			6.5					
7J12-11			7.0					
7J12-12			6.5					
7J12-13			6.5					
7J12-14			7.5					
7J12-15			6.5					
7J12-16			7.0					
7J12-17			7.5					
7J12-18			7.0					
7J12-19			6.5					
7J12-20			6.5					
7J12-21			7.0					
7J12-22			6.5					
7J12-23			6.5					
7J12-24			6.5					
7J12-25			6.5					
7K12								
7K12-01	7/25/94	1	5.0	N	N	NA	NA	
7K12-02	7/25/94	1	5.5	N	N	NA	NA	
7K12-03			6.0					
7K12-04			6.0					
7K12-05			6.0					
7K12-06			6.0					
7K12-07			6.0					

FIDLER SURVEY

PG 129

AOC 7

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1

PROJECT NO.: 34896

LOCATION GRID ID	DATE OF SURVEY	FIDLER No.	OUTCHANNEL READING (X1000)	AUDIBLE (Y/N)	CONTAMINATED? Y/N	CONTAMINATED? SECTOR	REF	COMMENTS
7K12-08	7/25/94	1	6.0	N	N	NA	NA	
7K12-09			6.0					
7K12-10			5.0					
7K12-11			5.0					
7K12-12	7/25/94	1	5.5	N	N	NA	NA	
7K12-13			5.5					
7K12-14			5.5					
7K12-15			6.0					
7K12-16			5.0					
7K12-17			5.5					
7K12-18			5.5					
7K12-19			5.5					
7K12-20	7/25/94	1	SB 7-25 ~~5.5~~ 5.0	N	N	NA	NA	
7K12-21	7/25/94	1	SB 7-25 ~~5.5~~ 5.5	N	N	NA	NA	
7K12-22	7/25/94	1	5.5	N	N	NA	NA	
7K12-23			5.5					
7K12-24			6.0					
7K12-25			6.0					
7L12								
7L12-01	7/25/94	1	6.0	N	N	NA	NA	
7L12-02			6.0					
7L12-03			6.0					
7L12-04			6.5					
7L12-05			7.0					
7L12-06			6.0					
7L12-07			6.5					
7L12-08			5.5					
7L12-09			5.5					
7L12-10			5.0					
7L12-11			5.0					
7L12-12			5.0					
7L12-13			6.0					
7L12-14			7.0					
7L12-15			7.0					

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FIDLER SURVEY

PG 130 ADC 7

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 PROJECT NO.: 34896

LOCATION GRID ID	DATE OF SURVEY	FIDLER No.	OUTCHANNEL READING (X1000)	AUDIBLE (Y/N)	CONTAMINATED? Y/N	CONTAMINATED? SECTOR	REF	COMMENTS
7L12-16	7/25/94	1	7.0	N	N	NA	NA	
7L12-17			7.0					
7L12-18			7.0					
7L12-19			6.0					
7L12-20			5.0					
7L12-21			5.0					
7L12-22			6.0					
7L12-23			6.5					
7L12-24			7.5					
7L12-25			8.0					
7M12								
7F13								NO POINT
7F13-01								
7F13-02								
7F13-03								
7F13-04								
7F13-05								
7F13-06								
7F13-07								
7F13-08								
7F13-09			8/26/94					
7F13-10								
7F13-11								
7F13-12								
7F13-13								
7F13-14								
7F13-15								
7F13-16								
7F13-17								
7F13-18								
7F13-19								
7F13-20								
7F13-21								

FIDLER SURVEY

PG 131

AOC 7

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1

PROJECT NO.: 34896

LOCATION GRID ID	DATE OF SURVEY	FIDLER No.	OUTCHANNEL READING (X1000)	AUDIBLE (Y/N)	CONTAMINATED? Y/N	CONTAMINATED? SECTOR	REF	COMMENTS
7F13-22								
7F13-23								
7F13-24			PIP					
7F13-25			8/26/94					
7G13								
7G13-01	7-19-94	2	5.0	N	N	NA	NA	
7G13-02			4.5					
7G13-03			5.0					
7G13-04			5.0					
7G13-05			5.5					
7G13-06			5.0					
7G13-07			4.5					
7G13-08			5.0					
7G13-09			5.0					
7G13-10			4.5					
7G13-11			5.0					
7G13-12			5.0					
7G13-13			5.0					
7G13-14			5.5					
7G13-15			5.0					
7G13-16			5.5					
7G13-17			4.5					
7G13-18			4.5					
7G13-19			5.0					
7G13-20			4.5					
7G13-21			5.0					
7G13-22			5.0					
7G13-23			5.0					
7G13-24			5.0					
7G13-25			5.0					
7H13								
7H13-01	7/19/94	2	5.5	N	N	NA	NA	
7H13-02			5.5					

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FIDLER SURVEY

PG 132 ADC 7

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 PROJECT NO.: 34896

LOCATION GRID ID	DATE OF SURVEY	FIDLER No.	OUTCHANNEL READING (X1000)	AUDIBLE (Y/N)	CONTAMINATED? Y/N	CONTAMINATED? SECTOR	REF	COMMENTS
7H13-03	7/19/94	2	5.5	N	N	NA	NA	
7H13-04			6.5					
7H13-05			8.0					
7H13-06			7.5					
7H13-07			6.0					
7H13-08			5.5					
7H13-09			5.5					
7H13-10			5.5					
7H13-11			5.5					
7H13-12			5.5					
7H13-13			5.5 ~~8.0~~ CP 7/19/94					
7H13-14			5.5					
7H13-15			8.0 ~~5.5~~ CP 7/19/94					
7H13-16			7.0 ~~8.0~~ CP 7/19/94					
7H13-17			5.5					
7H13-18			5.5					
7H13-19			5.5					
7H13-20			5.5					
7H13-21			5.5					
7H13-22			5.5					
7H13-23			5.5					
7H13-24			5.5					
7H13-25			6.0					
7I13								
7I13-01	7/19/94	2	8.5	N	N	NA	NA	
7I13-02			8.5					
7I13-03			8.5					
7I13-04			7.5					
7I13-05			7.0					
7I13-06			8.5					
7I13-07			8.0					
7I13-08			9.0					
7I13-09			8.5					
7I13-10			8.5					

FIDLER SURVEY PG 133 ADC 7

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 PROJECT NO.: 34896

LOCATION GRID ID	DATE OF SURVEY	FIDLER No.	OUTCHANNEL READING (X1000)	AUDIBLE (Y/N)	CONTAMINATED? Y/N	CONTAMINATED? SECTOR	REF	COMMENTS
7I13-11	7/19/94	2	8.0	N	N	NA	NA	
7I13-12			8.5					
7I13-13			8.5					
7I13-14			8.5					
7I13-15			8.0					
7I13-16			8.5					
7I13-17			8.5					
7I13-18			9.5					
7I13-19			8.5					
7I13-20			8.0					
7I13-21			8.5					
7I13-22			8.5					
7I13-23			8.5					
7I13-24			8.5					
7I13-25			8.0					
7J13								
7J13-01	7-19-94	2	7.0	N	N	NA	NA	
7J13-02			7.0					
7J13-03			7.0					
7J13-04			7.5					
7J13-05			7.0					
7J13-06			7.0					
7J13-07			7.0					
7J13-08			7.0					
7J13-09			7.5					
7J13-10			7.5					
7J13-11			7.0					
7J13-12			7.5					
7J13-13			7.5					
7J13-14			6.5					
7J13-15			7.0					
7J13-16			7.5					
7J13-17			7.0					
7J13-18			6.5					

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FIDLER SURVEY

PG 13A ADC 7

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 PROJECT NO.: 34896

LOCATION GRID ID	DATE OF SURVEY	FIDLER No.	OUTCHANNEL READING (X1000)	AUDIBLE (Y/N)	CONTAMINATED? Y/N	CONTAMINATED? SECTOR	REF	COMMENTS
7J13-19	7-19-94	2	6.5	N	N	NA	NA	
7J13-20			7.5					
7J13-21			7.5					
7J13-22			6.5					
7J13-23			7.5					
7J13-24			7.0					
7J13-25			6.5					
7K13								
7K13-01	7/25/94	1	6.0	N	N	NA	NA	
7K13-02	7/25/94	1	5.0	N	N	NA	NA	
7K13-03			5.5					
7K13-04			5.5					
7K13-05			6.0					
7K13-06			5.0					
7K13-07			5.5					
7K13-08			5.5					
7K13-09	7/25/94	1	CP 7/25/94 6.5	N	N	NA	NA	
7K13-10			7.0					
7K13-11			7.0					
7K13-12			6.0					
7K13-13			5.0					
7K13-14	7/25/94	1	5.5	N	N	NA	NA	
7K13-15			5.5					
7K13-16			5.5					
7K13-17			5.5					
7K13-18	9/25/94	1	5.0	N	N	NA	NA	
7K13-19			6.0					
7K13-20			7.0					
7K13-21			7.0					
7K13-22			6.0					
7K13-23			5.0					
7K13-24	7/25/94	1	5.5	N	N	NA	NA	
7K13-25			5.5					

FIDLER SURVEY

PG 135

AOC 7

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1

PROJECT NO.: 34896

LOCATION GRID ID	DATE OF SURVEY	FIDLER No.	OUTCHANNEL READING (X1000)	AUDIBLE (Y/N)	CONTAMINATED? Y/N	CONTAMINATED? SECTOR	REF	COMMENTS
7L13								
7L13-01	7/25/94	1	6.0	N	N	NA	NA	
7L13-02			6.5					
7L13-03			5.5					
7L13-04	7/25/94	1	SB 7-25 ~~6.5~~ 5.0	N	N	NA	NA	
7L13-05			SB 7-25 ~~5.5~~ 5.0					
7L13-06			SB 7-25 ~~5.5~~ 6.0					
7L13-07			5.5					
7L13-08			6.5					
7L13-09	7/25/94	1	5.5	N	N	NA	NA	
7L13-10			5.5					
7L13-11			SB 7-25 ~~6.0~~ 5.5					
7L13-12			SB 7-25 ~~6.5~~ 5.0					
7L13-13	7/25/94	1	6.5	N	N	NA	NA	
7L13-14			5.5					
7L13-15			8.0					
7L13-16			5.5					
7L13-17			5.5					
7L13-18			5.5					
7L13-19			5.5					
7L13-20			6.0					
7L13-21			6.0					
7L13-22			6.0					
7L13-23			5.5					
7L13-24			6.0					
7L13-25			6.0					
7M13								
7F14			PM					NO POINT
7F14-01			8/26/94					
7F14-02								
7F14-03								
7F14-04								
7F14-05								

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FIDLER SURVEY

PG 136 AOC 7

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 PROJECT NO.: 34896

LOCATION GRID ID	DATE OF SURVEY	FIDLER No.	OUTCHANNEL READING (X1000)	AUDIBLE (Y/N)	CONTAMINATED? Y/N	CONTAMINATED? SECTOR	REF	COMMENTS
7F14-06								
7F14-07								
7F14-08								
7F14-09								
7F14-10								
7F14-11								
7F14-12								
7F14-13								
7F14-14			PM					
7F14-15			8/26/94					
7F14-16								
7F14-17								
7F14-18								
7F14-19								
7F14-20								
7F14-21								
7F14-22								
7F14-23								
7F14-24								
7F14-25								
7G14								
7G14-01	7-19-94	2	5.0	N	N	NA	NA	
7G14-02			5.0					
7G14-03			5.0					
7G14-04			5.5					
7G14-05			5.5					
7G14-06			6.0					
7G14-07			5.0					
7G14-08			5.0					
7G14-09			5.0					
7G14-10			5.5					
7G14-11			6.0					
7G14-12			5.5					
7G14-13			5.5					

FIDLER SURVEY

PG 137 AOC 7

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 PROJECT NO.: 34896

LOCATION GRID ID	DATE OF SURVEY	FIDLER No.	OUTCHANNEL READING (X1000)	AUDIBLE (Y/N)	CONTAMINATED? Y/N	CONTAMINATED? SECTOR	REF	COMMENTS
7G14-14	7-19-94	2	5.0	N	N	NA	NA	
7G14-15			5.5					
7G14-16			5.0					
7G14-17			5.0					
7G14-18			5.0					
7G14-19			5.0					
7G14-20			5.0					
7G14-21			5.0					
7G14-22			4.5					
7G14-23			4.5					
7G14-24			4.5					
7G14-25			5.5					
7H14								
7H14-01	7-19-94	2	5.5	N	N	NA	NA	
7H14-02			5.5					
7H14-03			5.5					
7H14-04			5.5					
7H14-05			7.0					
7H14-06			7.0					
7H14-07			5.5					
7H14-08			5.5					
7H14-09			5.5					
7H14-10			5.5					
7H14-11			5.5					
7H14-12			5.5					
7H14-13			5.5					
7H14-14			5.5					
7H14-15			7.5					
7H14-16			6.5					
7H14-17			6.0					
7H14-18			5.5					
7H14-19			5.5					
7H14-20			5.5					
7H14-21			6.0					

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FIDLER SURVEY

PG 138 AOC 7

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 PROJECT NO.: 34896

LOCATION GRID ID	DATE OF SURVEY	FIDLER No.	OUTCHANNEL READING (X1000)	AUDIBLE (Y/N)	CONTAMINATED? Y/N	CONTAMINATED? SECTOR	REF	COMMENTS
7H14-22	7-19-94	2	5.5	N	N	NA	NA	
7H14-23			5.5					
7H14-24			5.5					
7H14-25			8.0					
7I14								
7I14-01	7/19/94	2	7.5	N	N	NA	NA	
7I14-02			8.5					
7I14-03			5.5					
7I14-04			5.5					
7I14-05			8.5					
7I14-06			8.5					
7I14-07			4.5					
7I14-08			5.5					
7I14-09			8.5					
7I14-10			6.5					
7I14-11			8.0					
7I14-12			8.5					
7I14-13			8.5					
7I14-14			8.5					
7I14-15			8.5					
7I14-16			8.0					
7I14-17			7.5					
7I14-18			8.5					
7I14-19			8.5					
7I14-20			8.0					
7I14-21			8.0					
7I14-22			8.0					
7I14-23			8.5					
7I14-24			7.0					
7I14-25			7.5					
7J14								
7J14-01	7-19-94	2	7.5	N	N	NA	NA	
7J14-02	7-19-94	2	7.5	N	N	NA	NA	

FIDLER SURVEY

PG 139 AOC 7

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 PROJECT NO.: 34896

LOCATION GRID ID	DATE OF SURVEY	FIDLER No.	OUTCHANNEL READING (X1000)	AUDIBLE (Y/N)	CONTAMINATED? Y/N	CONTAMINATED? SECTOR	REF	COMMENTS
7J14-03	7-19-94	2	7.5	N	N	NA	NA	
7J14-04			7.5					
7J14-05			7.5					
7J14-06			7.0					
7J14-07			7.5					
7J14-08			7.5					
7J14-09			7.5					
7J14-10			8.0					
7J14-11			7.0					
7J14-12			7.5					
7J14-13			7.0					
7J14-14			6.5					
7J14-15			7.5					
7J14-16			7.5					
7J14-17			7.5					
7J14-18			8.0					
7J14-19			7.5					
7J14-20			SB 8.0					
7J14-21			7.5					
7J14-22			7.5					
7J14-23			7.5					
7J14-24			8.0					
7J14-25			8.5					
7K14								
7K14-01	7/25/94	1	7.5	N	N	NA	NA	
7K14-02			8.0					
7K14-03			7.0					
7K14-04	7/25/94	1	5.5	N	N	NA	NA	
7K14-05			6.0					
7K14-06			5.5					
7K14-07			5.5					
7K14-08	7/25/94	1	6.5	N	N	NA	NA	
7K14-09			6.0					
7K14-10			7.5					

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FIDLER SURVEY

PG 140 AOC 7

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 PROJECT NO.: 34896

LOCATION GRID ID	DATE OF SURVEY	FIDLER No.	OUTCHANNEL READING (X1000)	AUDIBLE (Y/N)	CONTAMINATED? Y/N	CONTAMINATED? SECTOR	REF	COMMENTS
7K14-11	7/25/94	1	8.0	N	N	NA	NA	
7K14-12			8.5					
7K14-13			8.0					
7K14-14			5.0	N	N	NA	NA	
7K14-15	7/25/94	1	6.0	N	N	NA	NA	
7K14-16	7/25/94	1	5.5	N	N	NA	NA	
7K14-17			7/25/94 5.0	N	N	NA	NA	
7K14-18			9.0					
7K14-19			9.0					
7K14-20			8.5					
7K14-21			9.0					
7K14-22			10.0					
7K14-23			9.0					
7K14-24			10.5					
7K14-25	7/25/94	1	6.0	N	N	NA	NA	
7L14								
7L14-01	7/25/94	1	6.5	N	N	NA	NA	
7L14-02			6.0					
7L14-03			6.5					
7L14-04			7.0					
7L14-05			6.5					
7L14-06			7.0					
7L14-07			6.0					
7L14-08			5.5					
7L14-09			6.5					
7L14-10			6.0					
7L14-11			6.0					
7L14-12			6.5					
7L14-13			6.0					
7L14-14			6.0					
7L14-15			6.5					
7L14-16			5.5					
7L14-17			5.5					
7L14-18			6.0					

FIDLER SURVEY

PG 140a AOC 7

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 PROJECT NO.: 34896

LOCATION GRID ID	DATE OF SURVEY	FIDLER No.	OUTCHANNEL READING (X1000)	AUDIBLE (Y/N)	CONTAMINATED? Y/N	CONTAMINATED? SECTOR	REF	COMMENTS
7L14-19	7/25/94	1	6.0	N	N	NA	NA	
7L14-20			6.0					
7L14-21			6.5					
7L14-22			6.5					
7L14-23			5.5					
7L14-24			6.5					
7L14-25			5.5					
7M14								
7F15								
7G15								
7H15								
7I15			8/26/94					
7J15								
7K15								
7L15								
7M15								
7N16								
7N16-01	7-14-94	2	6.0	N	N	NA	NA	
7N16-02			6.5					
7N16-03			5.5					
7N16-04			6.0					
7N16-05			9.0					
7N16-06			9.5					
7N16-07			8.5					
7N16-08	7-14-94	2	6.0	N	N	NA	NA	

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FIDLER SURVEY

PG 141 ADC 7

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 PROJECT NO.: 34896

LOCATION GRID ID	DATE OF SURVEY	FIDLER No.	OUTCHANNEL READING (X1000)	AUDIBLE (Y/N)	CONTAMINATED? Y/N	CONTAMINATED? SECTOR	REF	COMMENTS
7N16-09	7-14-94	2	6.5	N	N	NA	NA	
7N16-10			5.5					
7N16-11			6.0					
7N16-12			6.5					
7N16-13			7.0					
7N16-14			7.0					
7N16-15			10.0					
7N16-16			9.0					
7N16-17			10.0					
7N16-18			10.0					
7N16-19			7.0					
7N16-20			7.0					
7N16-21			10.5		Y			
7N16-22			10.5					
7N16-23			10.5					
7N16-24			9.5		N			
7N16-25	7-14-94	2	10.0	N	N	NA	NA	
7O16								
7O16-01	7-14-94	2	9.5	N	N	NA	NA	
7O16-02			9.5					
7O16-03			9.5					
7O16-04			10.5		Y			
7O16-05			10.5					
7O16-06			10.5					
7O16-07			10.5					
7O16-08			10.0		N			
7O16-09			10.0					
7O16-10			10.0					
7O16-11			10.0					
7O16-12			10.0					
7O16-13			10.0					
7O16-14			10.0					
7O16-15			10.0					
7O16-16	7-14-94	2	10.0	N	N	NA	NA	

FIDLER SURVEY

PG 142 AOC 7

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 PROJECT NO.: 34896

LOCATION GRID ID	DATE OF SURVEY	FIDLER No.	OUTCHANNEL READING (X1000)	AUDIBLE (Y/N)	CONTAMINATED? Y/N	CONTAMINATED? SECTOR	REF	COMMENTS
7016-17	7-14-94	2	10.0	N	N	NA	NA	
7016-18			10.0					
7016-19			10.0					
7016-20			10.0					
7016-21			10.0					
7016-22			10.0					
7016-23			9.5					
7016-24			10.0					
7016-25	7-14-94	2	9.5	N	N	NA	NA	
7P16								
7P16-01	7-14-94	2	10.0	N	N	NA	NA	
7P16-02			10.5		Y			
7P16-03			10.0		N			
7P16-04			10.0					
7P16-05			11.5		Y			
7P16-06			11.0					
7P16-07			10.0		N			
7P16-08			10.0					
7P16-09			10.0					
7P16-10			9.5					
7P16-11			9.5					
7P16-12			10.5		Y			
7P16-13			9.5		N			
7P16-14			10.5		Y			
7P16-15			10.0		N			
7P16-16			10.0					
7P16-17			10.0					
7P16-18			10.5		Y			
7P16-19			10.5					
7P16-20			10.0		N			
7P16-21			10.5		Y			
7P16-22			10.0		N			
7P16-23			9.5					
7P16-24			9.5					

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FIDLER SURVEY

PG 143 ADC 7

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 PROJECT NO.: 34896

LOCATION GRID ID	DATE OF SURVEY	FIDLER No.	OUTCHANNEL READING (X1000)	AUDIBLE (Y/N)	CONTAMINATED? Y/N	CONTAMINATED? SECTOR	REF	COMMENTS
7P16-25	7/14/94	2	9.5	N	N	NA	NA	
7Q16								
7Q16-01	7/14/94	2	10.0	N	N	NA	NA	
7Q16-02			9.5					
7Q16-03			10.0					
7Q16-04			10.0					
7Q16-05			9.5					
7Q16-06			10.0					
7Q16-07			10.5		Y			
7Q16-08			10.5					
7Q16-09			10.0		N			
7Q16-10			10.0					
7Q16-11			10.5		Y			
7Q16-12			11.0					
7Q16-13			9.5		N			
7Q16-14			9.5					
7Q16-15			10.5		Y			
7Q16-16			10.0		X N			
7Q16-17			10.0					
7Q16-18			10.0					
7Q16-19			9.5					
7Q16-20			9.5					
7Q16-21			9.5					
7Q16-22			10.0					
7Q16-23			10.0					
7Q16-24			11.0		Y			
7Q16-25			11.0					
7R16								
7R16-01								UNDER CAP
7R16-02								
7R16-03								
7R16-04	7/14/94	2	5.0	N	N	NA	NA	
7R16-05			5.0					

FIDLER SURVEY

PG 144 AOC 7

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 PROJECT NO.: 34896

LOCATION GRID ID	DATE OF SURVEY	FIDLER No.	OUTCHANNEL READING (X1000)	AUDIBLE (Y/N)	CONTAMINATED? Y/N	CONTAMINATED? SECTOR	REF	COMMENTS
7R16-06	7/14/94	2	5.0	N	N	NA	NA	
7R16-07								UNDER CAR
7R16-08								↓
7R16-09								
7R16-10								
7R16-11	7/14/94	2	10.5	N	~~N~~ Y 9/14/95	NA	NA	
7R16-12								Under car
7R16-13								↓
7R16-14								
7R16-15								
7R16-16								
7R16-17								
7R16-18								↓
7R16-19	7/14/94	2	10.0 ~~+2.0~~ LO 7/14/94	N	N	NA	NA	
7R16-20			10.5		N			
7R16-21			12.0		Y			
7R16-22			10.5		Y			
7R16-23	↓	↓	10.0	↓	N	↓	↓	
7R16-24								Under car
7R16-25								↓
7S16								
7N17								
7N17-01	7-14-94	2	11.0	N	Y ~~N~~	NA	NA	
7N17-02			11.0					
7N17-03			9.5		N			
7N17-04			9.5					
7N17-05			10.0		Y			
7N17-06			10.5		Y			
7N17-07			10.0		N			
7N17-08			10.5					
7N17-09			11.5					
7N17-10	↓	↓	12.0	↓	↓	↓	↓	
7N17-11	7-14-94	2	13.0	N	~~N~~ Y 9/14/95	NA	NA	

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FIDLER SURVEY

PG 145 AOC 7

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 PROJECT NO.: 34896

LOCATION GRID ID	DATE OF SURVEY	FIDLER No.	OUTCHANNEL READING (X1000)	AUDIBLE (Y/N)	CONTAMINATED? Y/N	CONTAMINATED? SECTOR	REF	COMMENTS
7N17-12	7-14-94	2	13.0	N	Y N	NA	NA	
7N17-13			10.0		N			
7N17-14			10.0					
7N17-15			10.5		Y			
7N17-16			10.5					
7N17-17			10.0		N			
7N17-18			10.5		Y			
7N17-19			12.0					
7N17-20			SB 7-14 ~~94~~ 12.5					
7N17-21			13.0					
7N17-22			12.5					
7N17-23			10.0		N			
7N17-24			9.5					
7N17-25	7-14-94	2	SB 7-14-94 ~~12.0~~ 10.5	N	~~N~~ Y	NA	NA	
7O17								
7O17-01	7-14-94	2	10.0	N	N	NA	NA	
7O17-02			10.0					
7O17-03			10.0					
7O17-04			10.5		Y			
7O17-05			10.0		N			
7O17-06			10.0					
7O17-07			10.0					
7O17-08			10.0					
7O17-09			10.0					
7O17-10			10.0					
7O17-11			9.5					
7O17-12			11.0					
7O17-13			11.0		Y			
7O17-14			10.5					
7O17-15			10.5					
7O17-16			10.0		N			
7O17-17			10.0					
7O17-18			10.0					
7O17-19	7-14-94	2	9.5	N	N	NA	NA	

FIDLER SURVEY

Pg 146 AOC 7

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 — PROJECT NO.: 34896

LOCATION GRID ID	DATE OF SURVEY	FIDLER No.	OUTCHANNEL READING (X1000)	AUDIBLE (Y/N)	CONTAMINATED? Y/N	CONTAMINATED? SECTOR	REF	COMMENTS
7O17-20	7-14-94	2	10.0	N	N	NA	NA	
7O17-21			10.0					
7O17-22			11.0		Y			
7O17-23			11.0					
7O17-24			11.0					
7O17-25	7-14-94	2	10.5	N	Y	NA	NA	
7P17								
7P17-01	7/14/94	2	10.5	N	Y	NA	NA	
7P17-02			10.5					
7P17-03			10.0		N			
7P17-04			10.5		Y			
7P17-05			10.0		N			
7P17-06			9.5					
7P17-07			10.5		Y			
7P17-08			10.0		N			
7P17-09			10.0					
7P17-10			10.0					
7P17-11			10.0					
7P17-12			10.0					
7P17-13			10.5		Y			
7P17-14			10.0		N			
7P17-15			10.0					
7P17-16			10.5		Y			
7P17-17			10.0		N			
7P17-18			11.0					
7P17-19			10.0		N			
7P17-20			10.0					
7P17-21			9.5					
7P17-22			10.0					
7P17-23			10.5		Y			
7P17-24			10.0		N			
7P17-25			10.0					
7Q17								

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FIDLER SURVEY

PG 147 ADC 7

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 PROJECT NO.: 34896

LOCATION GRID ID	DATE OF SURVEY	FIDLER No.	OUTCHANNEL READING (X1000)	AUDIBLE (Y/N)	CONTAMINATED? Y/N	CONTAMINATED? SECTOR	REF	COMMENTS
7Q17-01	7-14-94	2	9.5	N	N	NA	NA	
7Q17-02			10.0					
7Q17-03			10.0					
7Q17-04			10.0					
7Q17-05			11.0					
7Q17-06			11.0					
7Q17-07			11.5					
7Q17-08			11.0					
7Q17-09			9.5		N			
7Q17-10			9.0					
7Q17-11			8.5					
7Q17-12			9.0					
7Q17-13			9.5					
7Q17-14			10.0					
7Q17-15			11.0					
7Q17-16			10.5					
7Q17-17			10.0		N			
7Q17-18			9.5					
7Q17-19			9.5					
7Q17-20			10.0					
7Q17-21			9.5					
7Q17-22			10.0					
7Q17-23			10.0					
7Q17-24			10.0					
7Q17-25			10.0					
7R17								
7R17-01	7/14/94	2	12.0	N	~~N~~ Y	NA	NA	
7R17-02			11.5					
7R17-03			10.0		N			
7R17-04			9.0					
7R17-05								CAR
7R17-06								CAR
7R17-07	7/14/94	2	9.5	N	N	NA	NA	
7R17-08			11.0		~~N~~ Y			

FIDLER SURVEY

PG 148 AOC 7

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 PROJECT NO.: 34896

LOCATION GRID ID	DATE OF SURVEY	FIDLER No.	OUTCHANNEL READING (X1000)	AUDIBLE (Y/N)	CONTAMINATED? Y/N	CONTAMINATED? SECTOR	REF	COMMENTS
7R17-09	7/14/94	2	10.5	N	~~Y~~ N	NA	NA	
7R17-10			12.0					
7R17-11			11.5					
7R17-12			11.0					
7R17-13			10.0		N			
7R17-14			10.0					
7R17-15			7.0					
7R17-16			10.0					
7R17-17			10.0					
7R17-18			10.5					
7R17-19			10.5					
7R17-20			10.5					
7R17-21			11.0					
7R17-22			10.5					
7R17-23			10.0		N			
7R17-24			10.5					
7R17-25			10.5					
7S17								
7N18								
7N18-01	7-14-94	2	13.0	N	~~N~~ Y	NA	NA	
7N18-02			11.5					
7N18-03			10.0		N			
7N18-04			10.0					
7N18-05			11.0					
7N18-06			11.0					
7N18-07			10.0		N			
7N18-08			11.5					
7N18-09			12.0					
7N18-10			13.0					
7N18-11			30 7-14-~~13.5~~ 13.5					
7N18-12			12.5					
7N18-13			12.0					
7N18-14	7-14-94	2	11.5	N	~~N~~ Y	NA	NA	

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FIDLER SURVEY

PG 149 ADC 7

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 PROJECT NO.: 34896

LOCATION GRID ID	DATE OF SURVEY	FIDLER No.	OUTCHANNEL READING (X1000)	AUDIBLE (Y/N)	CONTAMINATED? Y/N	CONTAMINATED? SECTOR	REF	COMMENTS
7N18-15	7-14-94	2	11.0	N	Y ~~N~~ 9/14/95	NA	NA	
7N18-16			11.5					
7N18-17			11.0					
7N18-18			12.0					
7N18-19			12.0					
7N18-20			13.0					
7N18-21			13.0					
7N18-22			11.5					
7N18-23			11.0					
7N18-24			11.0		Y ~~N~~ 9/14/95			
7N18-25	7-14-94	2	11.5	N	~~N~~ Y 9/14/95	NA	NA	
7O18								
7O18-01	7-14-94	2	11.0	N	~~N~~ Y 9/14/95	NA	NA	
7O18-02			10.0		N			
7O18-03			10.5		Y			
7O18-04			10.5		Y			
7O18-05			9.5		N			
7O18-06			10.5		Y			
7O18-07			11.0					
7O18-08			11.0					
7O18-09			11.0					
7O18-10			11.0					
7O18-11			11.0					
7O18-12			11.0					
7O18-13			11.0					
7O18-14			10.5		Y			
7O18-15			10.0		N			
7O18-16			10.5		Y			
7O18-17			10.5					
7O18-18			11.0					
7O18-19			11.5					
7O18-20			10.5					
7O18-21			11.0		Y		Y	
7O18-22	7-14-94	2	[illegible]	N	~~N~~ Y 9/14/95	NA	NA	

FIDLER SURVEY

PG 150 AOC 7

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 PROJECT NO.: 34896

LOCATION GRID ID	DATE OF SURVEY	FIDLER No.	OUTCHANNEL READING (X1000)	AUDIBLE (Y/N)	CONTAMINATED? Y/N	SECTOR	REF	COMMENTS
7O18-23	7-14-94	2	10.5	N	~~N~~ 6/1/95 Y	NA	NA	
7O18-24	↓	↓	11.0	↓	↓	↓	↓	
7O18-25	↓	↓	10.5	↓	↓	↓	↓	
7P18								
7P18-01	7-14-94	2	8.5	N	N	NA	NA	
7P18-02	↓	↓	10.0	↓	↓	↓	↓	
7P18-03			10.0		6/1/95 ↓			
7P18-04			10.5		↓			
7P18-05			10.0		6/1/95 N			
7P18-06			10.0					
7P18-07			9.0					
7P18-08			10.0					
7P18-09			10.0					
7P18-10			10.0		6/1/95 ↓			
7P18-11			10.5		↓			
7P18-12			10.0		6/1/95 N			
7P18-13			10.0					
7P18-14			10.0					
7P18-15			10.0		↓			
7P18-16			10.5		6/1/95 ↓			
7P18-17			9.5		6/1/95 N			
7P18-18			10.5		6/1/95 ↓			
7P18-19			11.0					
7P18-20			11.0					
7P18-21			11.0					
7P18-22			10.5		↓			
7P18-23			10.0		6/1/95 N			
7P18-24			9.5		6/1/95 ↓			
7P18-25	↓	↓	10.5	↓	6/1/95 Y	↓	↓	
7Q18								
7Q18-01	7-14-94	2	9.5	N	N	NA	NA	
7Q18-02	↓	↓	9.5	↓	↓	↓	↓	
7Q18-03	↓	↓	10.0	↓	↓	↓	↓	

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FIDLER SURVEY

PG 151 ADC 7

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 PROJECT NO.: 34896

LOCATION GRID ID	DATE OF SURVEY	FIDLER No.	OUTCHANNEL READING (X1000)	AUDIBLE (Y/N)	CONTAMINATED? Y/N	CONTAMINATED? SECTOR	REF	COMMENTS
7Q18-04	7-14-94	2	10.5	N	~~N~~ Y	NA	NA	
7Q18-05			10.0		N			
7Q18-06			10.0					
7Q18-07			10.0					
7Q18-08			10.0					
7Q18-09			9.5					
7Q18-10			9.5					
7Q18-11			9.5					
7Q18-12			9.0					
7Q18-13			10.0					
7Q18-14			11.0					
7Q18-15			9.5		N			
7Q18-16			9.5					
7Q18-17			10.0					
7Q18-18			10.0					
7Q18-19			10.0					
7Q18-20			10.0					
7Q18-21			10.0					
7Q18-22			10.5					
7Q18-23			9.5		N			
7Q18-24			10.0					
7Q18-25			10.0					
7R18								
7R18-01	7/14/94	2	10.0	N	N	NA	NA	
7R18-02			12.0					
7R18-03			10.5					
7R18-04			11.5					
7R18-05			12.0					
7R18-06			10.5					
7R18-07			11.0					
7R18-08			11.5					
7R18-09			11.5					
7R18-10			10.0		N			
7R18-11			0.5		~~N~~ Y			

FIDLER SURVEY

PG 152 ADC 7

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 PROJECT NO.: 34896

LOCATION GRID ID	DATE OF SURVEY	FIDLER No.	OUTCHANNEL READING (X1000)	AUDIBLE (Y/N)	CONTAMINATED? Y/N	CONTAMINATED? SECTOR	REF	COMMENTS
7R18-12	7/14/94	2	11.5	N	~~N~~ Y	NA	NA	
7R18-13			11.5					
7R18-14			10.5					
7R18-15			10.5					
7R18-16			11.0					
7R18-17			11.5					
7R18-18			11.5					
7R18-19			11.5					
7R18-20			11.0					
7R18-21			11.0					
7R18-22			12.0					
7R18-23			11.5					
7R18-24			10.5					
7R18-25			10.5					
7S18								
7N19								
7N19-01	7-14-94	2	13.0	N	~~N~~ Y	NA	NA	
7N19-02			13.0					
7N19-03			12.5					
7N19-04			11.5					
7N19-05			11.0					
7N19-06			11.5					
7N19-07			11.0					
7N19-08			12.5					
7N19-09			12.5					
7N19-10			13.5					
7N19-11			12.5					
7N19-12			13.0					
7N19-13			12.5					
7N19-14			11.5					
7N19-15			11.5					
7N19-16			11.5					
7N19-17	7-14-94	2	12.0	N	~~N~~ Y	NA	NA	

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FIDLER SURVEY

Pg 153 AOC 7

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 PROJECT NO.: 34896

LOCATION GRID ID	DATE OF SURVEY	FIDLER No.	OUTCHANNEL READING (X1000)	AUDIBLE (Y/N)	CONTAMINATED? Y/N	SECTOR	REF	COMMENTS
7N19-18	7-14-94	2	13.5	N	~~Y~~	NA	NA	
7N19-19			13.5					
7N19-20			13.5					
7N19-21			13.5					
7N19-22			12.5					
7N19-23			11.5					
7N19-24			12.0					
7N19-25	7-14-94	2	12.5	N	~~Y~~	NA	NA	
7O19								
7O19-01	7-14-94	2	11.0	N	~~Y~~	NA	NA	
7O19-02			11.0					
7O19-03			11.0					
7O19-04			11.0					
7O19-05			11.0					
7O19-06			10.5					
7O19-07			11.0					
7O19-08			10.5					
7O19-09			11.0					
7O19-10			11.5					
7O19-11			11.0					
7O19-12			11.0					
7O19-13			11.0					
7O19-14			11.0					
7O19-15			11.0					
7O19-16			11.0					
7O19-17			10.5					
7O19-18			11.0					
7O19-19			11.0					
7O19-20			11.5					
7O19-21			11.0					
7O19-22			11.5					
7O19-23			11.5					
7O19-24			11.0					
7O19-25			11.5					

FIDLER SURVEY

PG 154

AOC 7

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1

PROJECT NO.: 34896

LOCATION GRID ID	DATE OF SURVEY	FIDLER No.	OUTCHANNEL READING (X1000)	AUDIBLE (Y/N)	CONTAMINATED? Y/N	CONTAMINATED? SECTOR	REF	COMMENTS
7P19								
7P19-01	7-14-94	2	10.5	N	Y	NA	NA	
7P19-02			10.0		N			
7P19-03			11.0					
7P19-04			9.5		N			
7P19-05			10.0					
7P19-06			10.0					
7P19-07			10.5					
7P19-08			10.5					
7P19-09			10.5					
7P19-10			10.5					
7P19-11			10.5					
7P19-12			10.5					
7P19-13			10.5					
7P19-14			10.5					
7P19-15			10.0		N			
7P19-16			10.0					
7P19-17			10.0					
7P19-18			11.0		Y			
7P19-19			10.5					
7P19-20			11.0					
7P19-21			10.5					
7P19-22			11.0					
7P19-23			10.5					
7P19-24			9.5		N			
7P19-25			10.0					
7Q19								
7Q19-01	7/14/94	2	9.5	N	N	NA	NA	
7Q19-02			9.5					
7Q19-03			10.0					
7Q19-04			9.0					
7Q19-05			10.5					
7Q19-06			10.5					

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FIDLER SURVEY

PG 155 ADC 7

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 PROJECT NO.: 34896

LOCATION GRID ID	DATE OF SURVEY	FIDLER No.	OUTCHANNEL READING (X1000)	AUDIBLE (Y/N)	CONTAMINATED? Y/N	CONTAMINATED? SECTOR	REF	COMMENTS
7Q19-07	7/14/94	2	9.5	N	N	NA	NA	
7Q19-08			9.5					
7Q19-09			10.0					
7Q19-10			10.0					
7Q19-11			10.0					
7Q19-12			10.0					
7Q19-13			10.0					
7Q19-14			10.5					
7Q19-15			10.0					
7Q19-16			10.0					
7Q19-17			10.0					
7Q19-18			10.0					
7Q19-19			10.0					
7Q19-20			10.0					
7Q19-21			10.0					
7Q19-22			10.0					
7Q19-23			9.5					
7Q19-24			10.0					
7Q19-25			10.5		Y			
7R19								
7R19-01	7-14-94	2	10.0	N	N	NA	NA	
7R19-02	7/14/94	2	10.0	N	N	NA	NA	
7R19-03	7/14/94	2	10.0	N	N	NA	NA	
7R19-04			10.0					
7R19-05			10.0					
7R19-06			10.0					
7R19-07			10.0					
7R19-08			10.0					
7R19-09			9.5					
7R19-10			10.0					
7R19-11			10.0					
7R19-12			10.0					
7R19-13			10.5		Y			
7R19-14			10.0		N			

FIDLER SURVEY

PG 156 ADC 7

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 PROJECT NO.: 34896

LOCATION GRID ID	DATE OF SURVEY	FIDLER No.	OUTCHANNEL READING (X1000)	AUDIBLE (Y/N)	CONTAMINATED? Y/N	CONTAMINATED? SECTOR	REF	COMMENTS
7R19-15	7-14-94	2	10.5	N	~~Y~~ N	NA	NA	
7R19-16			8.5		N			
7R19-17			10.0					
7R19-18			10.0					
7R19-19			9.5					
7R19-20			10.0					
7R19-21			10.0					
7R19-22			9.5					
7R19-23			9.5					
7R19-24			9.0					
7R19-25			7.5					
7S19								
7N20								
7N20-01	7-14-94	2	~~14.0~~ 13.0	N	~~Y~~ N	NA	NA	
7N20-02			13.5					
7N20-03			13.0					
7N20-04			12.0					
7N20-05			11.0					
7N20-06			12.0					
7N20-07			12.0					
7N20-08			13.0					
7N20-09			14.0					
7N20-10			13.5					
7N20-11			13.5					
7N20-12			13.5					
7N20-13			13.5					
7N20-14			12.5					
7N20-15			11.5					
7N20-16			11.0					
7N20-17			~~14.0~~ 11.0					
7N20-18			14.0		~~Y~~ N	NA	NA	
7N20-19			~~15~~ 16.0		~~Y~~ N	center	pg1	
7N20-20	7-14-94	2	13.5	N	~~Y~~ N	NA	NA	

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FIDLER SURVEY

PG 157 ADC 7

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 PROJECT NO.: 34896

LOCATION GRID ID	DATE OF SURVEY	FIDLER No.	OUTCHANNEL READING (X1000)	AUDIBLE (Y/N)	CONTAMINATED? Y/N	CONTAMINATED? SECTOR	REF	COMMENTS
7N20-21	7-14-94	2	13.5	N	~~N~~ Y	NA	NA	
7N20-22	↓	↓	16.0	↓	4/25/95 ~~Y~~ N	N 1/2	pg1	
7N20-23	↓	↓	18.0	↓	4/25/95 ~~Y~~ N	Center	pg1	
7N20-24	↓	↓	12.5	↓	~~Y~~ N	NA	NA	
7N20-25	↓	↓	12.0	↓	~~Y~~ N	NA	NA	
7O20								
7O20-01	7/14/94	2	11.0	N	~~N~~ Y 4/25/95	NA	NA	
7O20-02	↓	↓	11.5	↓	↓	↓	↓	
7O20-03	↓	↓	11.0	↓	↓	↓	↓	
7O20-04	↓	↓	11.0	↓	↓	↓	↓	
7O20-05	↓	↓	11.5	↓	↓	↓	↓	
7O20-06	↓	↓	11.0	↓	↓	↓	↓	
7O20-07	↓	↓	10.5	↓	↓	↓	↓	
7O20-08	↓	↓	11.5	↓	↓	↓	↓	
7O20-09	↓	↓	11.0	↓	↓	↓	↓	
7O20-10	↓	↓	11.5	↓	↓	↓	↓	
7O20-11	↓	↓	11.0	↓	↓	↓	↓	
7O20-12	↓	↓	10.5	↓	↓	↓	↓	
7O20-13	↓	↓	11.0	↓	↓	↓	↓	
7O20-14	↓	↓	11.0	↓	↓	↓	↓	
7O20-15	↓	↓	11.0	↓	↓	↓	↓	
7O20-16	↓	↓	11.0	↓	↓	↓	↓	
7O20-17	↓	↓	10.5	↓	↓	↓	↓	
7O20-18	↓	↓	11.5	↓	↓	↓	↓	
7O20-19	↓	↓	11.0	↓	↓	↓	↓	
7O20-20	↓	↓	11.5	↓	↓	↓	↓	
7O20-21	↓	↓	11.5	↓	↓	↓	↓	
7O20-22	↓	↓	11.5	↓	↓	↓	↓	
7O20-23	↓	↓	11.0	↓	↓	↓	↓	
7O20-24	↓	↓	10.5	↓	↓	↓	↓	
7O20-25	↓	↓	10.5	↓	↓	↓	↓	
	CP — 7/14/94							
7P20	CP — 7/14/94							
7P20-01	7/14/94	2	11.0	N	~~N~~ Y 4/25/95	NA	NA	

FIDLER SURVEY

PG 158 ADC 7

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 PROJECT NO.: 34896

LOCATION GRID ID	DATE OF SURVEY	FIDLER No.	OUTCHANNEL READING (X1000)	AUDIBLE (Y/N)	CONTAMINATED? Y/N	SECTOR	REF	COMMENTS
7P20-02	7/14/94	2	10.5	N	Y	NA	NA	
7P20-03			11.0		Y			
7P20-04			10.0		N			
7P20-05			9.5					
7P20-06			10.0		Y			
7P20-07			10.5		Y			
7P20-08			11.5					
7P20-09			11.5					
7P20-10			11.0					
7P20-11			11.5					
7P20-12			10.5		Y			
7P20-13			10.0		N			
7P20-14			10.5		Y			
7P20-15			10.0		N			
7P20-16			10.0					
7P20-17			10.0					
7P20-18			10.5		Y			
7P20-19			11.0					
7P20-20			11.5					
7P20-21			10.5					
7P20-22			10.5		Y			
7P20-23			10.0		N			
7P20-24			10.5		Y			
7P20-25			10.5					
7Q20								
7Q20-01	7/14/94	2	10.0	N	N	NA	NA	
7Q20-02			9.5		N			
7Q20-03			10.5		Y			
7Q20-04			10.0		N			
7Q20-05			10.0		Y			
7Q20-06			10.5		Y			
7Q20-07			10.0		N			
7Q20-08			9.5					
7Q20-09			10.0					

159

FIDLER SURVEY

PG 159 ADC 7

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 PROJECT NO.: 34896

LOCATION GRID ID	DATE OF SURVEY	FIDLER No.	OUTCHANNEL READING (X1000)	AUDIBLE (Y/N)	CONTAMINATED? Y/N	CONTAMINATED? SECTOR	REF	COMMENTS
7Q20-10	7/14/94	2	10.0	N	N	NA	NA	
7Q20-11			9.5					
7Q20-12			9.5					
7Q20-13			9.5					
7Q20-14			10.0					
7Q20-15			11.0		Y			
7Q20-16			14.0	N	~~Y/N~~	NW	Pg	SEEP?
7Q20-17			11.0	N		NA	NA	
7Q20-18			10.0		N			
7Q20-19			10.5		Y			
7Q20-20			10.0		N			
7Q20-21			10.0					
7Q20-22			11.0					
7Q20-23			13.0					
7Q20-24			12.5					
7Q20-25			12.5					
7R20								
7R20-01	7-14-94	2	10.0	N	N	NA	NA	
7R20-02			10.0					
7R20-03			9.5					
7R20-04			7.0					
7R20-05			7.5					
7R20-06			10.0					
7R20-07			3.0					
7R20-08			10.0					
7R20-09			9.5					
7R20-10			10.0					
7R20-11			10.5					
7R20-12			11.5					
7R20-13			11.5					
7R20-14			11.0					
7R20-15			11.0					
7R20-16			11.5					
7R20-17			11.0					

FIDLER SURVEY

PG 160 AOC 7

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 PROJECT NO.: 34896

LOCATION GRID ID	DATE OF SURVEY	FIDLER No.	OUTCHANNEL READING (X1000)	AUDIBLE (Y/N)	CONTAMINATED? Y/N	SECTOR	REF	COMMENTS
7R20-18	7.14.94	2	11.5	N	~~Y~~ N	NA	NA	
7R20-19			12.0					
7R20-20			13.0					
7R20-21			11.5					
7R20-22			11.5					
7R20-23			12.0					
7R20-24			11.0					
7R20-25			11.0					
			CP 7/14/94					
7S20								
7N21								
7O21								
7P21								
7Q21								
7R21								
			8/26/94					
7S21								

A.2 SITE MANAGER LOGBOOK

EG & G MOUND

OUS

SITE MANAGER LOGBOOK

OPS AREA PHASE I

NEW PROP EXTND PHASE

Russ Tussings 4800 3400

SITE MANAGER LOG BOOK

PROJECT TITLE: **EG&G MOUND OU5 OPERATIONAL AREA PHASE I RI/FS FIELD INVESTIGATIONS**

WORK SITE: *MOUND PLANT*
Miamisburg, Ohio
OU5 New Property

ACTIVITY: *Mound OU5 OPERATIONAL AREA Phase 1 RI/FS Field Investigations*

CONTRACT #: *BOA 52264*
TASK ORDER: *34896*

PROJECT MANAGER: *Thomas Tank*
COMPANY NAME / ADDRESS: *Science Applications International Corporation*
4031 Colonel Glenn Hwy ,Dayton, Ohio 45431
TELEPHONE NUMBERS: *(513) 429-2699*

SUPERVISORS: *OU5 Manager: Alan Spesard (513)865-3859*
SAIC Proj. Manager: Thomas Tank (513)429-2699

EMERGENCY RESPONCE: *Police / Ambulance / Fire 911 or 865-4040*

PROCEDURES: *SOP 1.1*

START DATE: 5/11/94
END DATE: 9/14/94

TABLE OF CONTENTS — SITE MANAGER LOGBOOK

PI

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA PHASE 1 — PROJECT NO: 34896

PAGE	FIELD LOG		PAGE	FIELD LOG	
1	TASK TEAM ACTIV. SHEET	5/11/94	31	TASK TEAM ACTIV. SHEET	6/16/94
2	"	5/12/94	32	"	"
3	"	5/16/94	33	"	6/20/94
4	"	5/17/94	34	"	6/21/94
5	"	5/18/94	35	"	"
6	"	5/19/94	36	"	6/22/94
7	"	5/23/94	37	"	"
8	"	5/23/94	38	"	"
9	"	5/24/94	39	"	6/23/94
10	"	5/24/94	40	"	"
11	"	5/25/94	41	"	"
12	"	5/26/94	42	"	6/27/94
13	"	5/26/94	43	"	"
14	"	5/31/94	44	"	"
15	"	6/1/94	45	"	6/28/94
16	"	6/1/94	46	"	"
17	"	6/2/94	47	"	"
18	"	6/2/94	48	"	6/29/94
19	"	6/6/94	49	"	"
20	"	6/7/94	50	"	"
21	"	6/8/94	51	"	6/30/94
22	"	6/9/94	52	"	"
23	"	6/13/94	53	"	"
24	"	"	54	"	7/5/94
25	"	6/14/94	55	"	"
26	"	"	56	"	7/6/94
27	"	"	57	"	"
28	"	6/15/94	58	"	7/7/94
29	"	"	59	"	"
30	"	"	60	"	"

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SITE MANAGER LOGBOOK

PII

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA PHASE 1

PROJECT NO: 34896

PAGE	FIELD LOG		PAGE	FIELD LOG	
61	TASK TEAM ACTIV. SHEET;	7/8/94	91	TASK TEAM ACTIVITY SHEET;	8/2/94
62	" ;	7/11/94	92	" ;	8/3/94
63	" ;	"	93	" ;	8/4/94
64	" ;	7/12/94	94	" ;	8/8/94
65	" ;	7/13/94	95	" ;	8/9/94
66	" ;	"	96	" ;	8/10/94
67	" ;	7/14/94	97	" ;	8/11/94
68	" ;	"	98	Task Team Activity Sheet;	8/15/94
69	" ;	"	99	" ;	8/16/94
70	" ;	7/15/94	100	" ;	8/17/94
71	" ;	7/18/94	101	" ;	8/18/94
72	" ;	"	102	" ;	8/22/94
73	" ;	7/19/94	103	" ;	8/23/94
74	" ;	"	104	" ;	8/24/94
75	" ;	7/20/94	105	" ;	8/25/94
76	" ;	"	106	Task Team Activity Sheet;	8/29/94
77	NEW PROP. GEOTECH. SAMPLE SUMMARY		107	" ;	8/30/94
78	"		108	" ;	8/31/94
79	"		109	" ;	9/1/94
80	NEW PROP DRILLING - MULTIPLE HOLE SUMMARY		110	" ;	9/6/94
81	Task Team Activity Sheet;	7/21/94	111	" ;	9/7/94
82	" ;	7/22/94	112	" ;	9/8/94
83	" ;	7/25/94	113	" ;	9/12/94
84	" ;	"	114	" ;	9/13/94
85	" ;	"	115	Task Team Activity Sheet	9/14/94
86	" ;	7/26/94	116		
87	" ;	"	117		
88	" ;	7/27/94	118	NO ENTRY	
89	" ;	7/28/94	119		
90	" ;	8/1/94	120		

TABLE OF CONTENTS: SITE MANAGER LOGBOOK

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA PHASE 1 P III PROJECT NO: 34896

PAGE	FIELD LOG	PAGE	FIELD LOG
121	NO ENTRY	151	NO ENTRY
122		152	
123		153	
124		154	
125		155	
126		156	
127		157	
128		158	
129		159	
130		160	
131		161	
132		162	
133		163	
134		164	
135		165	
136		166	
137		167	
138		168	
139		169	
140		170	
141		171	
142		172	
143		173	
144		174	
145		175	
146		176	
147		177	
148		178	
149		179	
150		180	

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SITE MANAGER LOGBOOK

PGI

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA PHASE 1

PROJECT NO: 34896

PAGE	FIELD LOG	PAGE	FIELD LOG
181	NO ENTRY	211	NO ENTRY
182		212	
183		213	
184		214	
185		215	
186		216	
187		217	
188		218	
189		219	
190		220	
191		221	
192		222	
193		223	
194		224	
195		225	
196		226	
197		227	
198		228	
199		229	
200		230	
201		231	
202		232	
203		233	
204		234	
205		235	
206		236	
207		237	
208		238	
209		239	
210		240	

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PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA PHASE 1 — PROJECT NO: 34896

PAGE	FIELD LOG	PAGE	FIELD LOG
241	TAILGATE SAFETY FORM; 5/11/94	271	TAILGATE SAFETY FORM; 7/6/94
242	" ; 5/12/94	272	" ; 7/12/94
243	" ; 5/16/94	273	" ; 7/13/94
244	" ; 5/17/94	274	" ; 7/14/94
245	" ; 5/18/94	275	" ; 7/18/94
246	" ; 5/19/94	276	" ; 7/21/94
247	" ; 5/23/94	277	" ; 7/27/94
248	" ; 5/24/94	278	" ; 8/22/94
249	" ; 5/25/94	279	" ; 8/23/94
250	" ; 5/26/94	280	" ; 8/25/94
251	" ; 5/31/94	281	" ; 8/29/94
252	" ; 6/1/94	282	" ; 9/1/94
253	" ; 6/2/94	283	NO ENTRY
254	" ; 6/6/94	284	
255	" ; 6/7/94	285	
256	" ; 6/8/94	286	
257	" ; 6/9/94	287	
258	" ; 6/13/94	288	
259	" ; 6/14/94	289	
260	" ; 6/15/94	290	
261	" ; 6/16/94	291	
262	" ; 6/20/94	292	
263	" ; 6/21/94	293	
264	" ; 6/22/94	294	
265	" ; 6/23/94	295	
266	" ; 6/27/94	296	
267	" ; 6/28/94	297	
268	" ; 6/29/94	298	TAILGATE SAFETY FORM; 9/6/94
269	" ; 6/30/94	299	" ; 9/7/94
270	" ; 7/5/94	300	" ; 9/8/94

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PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA PHASE 1 — PROJECT NO: 34896

PAGE	FIELD LOG	PAGE	FIELD LOG
301	TAILGATE SAFETY FORM; 9/12/94	331	NA
302	" ; 9/13/94	332	
303	" ; 9/14/94	333	
304	END OF ACTIVITIES - NO MORE	334	
305	ENTRIES IN THIS BOOK	335	
306	NA	336	
307		337	
308		338	
309		339	
310		340	
311		341	
312		342	
313		343	
314		344	
315		345	
316		346	
317		347	
318		348	
319		349	
320		350	
321		351	
322		352	
323		353	
324		354	
325		355	
326		356	
327		357	
328		358	
329		359	
330		360	

TASK TEAM ACTIVITY LOG SHEET

SITE MANAGER LOGBOOK P33

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA PHASE 1 TASK NO: 34896

Date (mm/dd/yy): 6/20/94 TIME: 0700 PAGE 1 OF 1

Task Team Members:

JOHN DAVIS JOLETTA MINARD ERIC SAYLOR MIKE KUDZETC EVELYN MEACHER (NP HSA)
GREG LODER JEFF DEVAUGN (A7 HSA) SALLY BROWN CRAIG PATTERSON (FIDLER)
SUSAN ABSTON MARTHA CRAMER (CABLE TOOL) MIKE MONROE MARK HOWARD (SOIL GAS)

Narrative (include time and location):

0730 all personnel @ HR. Conduct H&S Briefing. Conduct site orientation and assign training to SB, CP.
A7 HSA set up on B1.
FIDLER crew begins equip. & site familiarization.
HAZCO delivers new OVA - old one was leaking H_2
Broadway barricade delivers flashing hiway barrels for A7.
0945 to Bldg 91 pick up 3 open top IDM drums & deliver to Cable tool. Support truck is stuck. Crew collecting soil sample.
J. Minard collects ambient. Waiting to see if hole makes water.
0930 @ A7 HSA. Set up on B1. Waiting on drill permit for J. Geisler and shelby tubes for drillers.
NOTE: Village Rental delivers drill for soil gas crew.
NOTE: per Mike Donahue, may have trouble supporting all drills - HP coverage.
Davis off site @ 1030
FOD SUMMARY:
A7 HSA: @ 32' B1. No water or bedrock
NP HSA: Moved to B407
CABLE TOOL: Water @ W397. Setting well

Daily Weather Conditions: A.M. hot humid hazy 90°F
P.M. RAIN

Recorded By [signature] QA Checked By Laura M. Morrison 8/15/94

TASK TEAM ACTIVITY LOG SHEET

SITE MANAGER LOGBOOK P.34

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA PHASE 1 TASK NO: 34896

Date (mm/dd/yy): 6/21/94 TIME: 0700: PAGE 1 OF 2

Task Team Members:

JOHN DAVIS JOLETTA MUMPERT ERIC SAYLOR GREG LODER JEFF DEVALCEN (A7 HSA)
MARK MONROE, MIKE HOWARD (SG) MIKE HOWARD (SG) 6/21/94 SUSAN ABSTON MARTHA CRAMER (CABLE TOOL)
MIKE KLIDJECZ EVELYN MEACHER (NP HSA) SALLY BROWN CRAIG PATTERSON (FIDLER)

Narrative (include time and location):

0730 all personnel on site. Conduct HAS Briefing. Crews prep for days activities.
- Discuss need for vehicles & another site w/ T. Tank. Site to be set up in Contract. Parking lot for storage & decon. No electricity.
0830 Call for A7 HSA. No HP on site.
Per T. Tank; only 1/2 bucket required for all geotech samples.
0915 Cable tool support vehicle stuck on W397 - ATV HSA comes up to unstick it.
0930 A7 HSA has high OVM readings. Run draeger tubes; neg. on benzene, vinyl chloride. Resume drilling.
1430 on A7B2, driller noticed vent for Asbestos Abatement in Bldg 29. Driller wants personal air monitor. J. Geisler contacted Indust. Hygiene - 3 filters in place but driller not comfortable. J. Geisler working w/ I.H. to see if they can supply monitoring.
~1400 JD on Bldg 91 to pick up IDW barrels but none available.
1545 Call to Sandy Geibel - I. Hygiene:
- wants opinion on Level D clothing. "Street" clothes OK but shouldnt leave site. Coveralls required? If so, amendment to HSP.

Daily Weather Conditions: A.M. hot, hazy, humid 95°F

P.M. SAME

Recorded By [signature] QA Checked By Laura M. Morrison 8/15/94

TASK TEAM ACTIVITY LOG SHEET — SITE MANAGER LOGBOOK 835

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA PHASE 1 — TASK NO: 34896

Date (mm/dd/yy): 6/21/94 TIME: NA PAGE 2 OF 2

Task Team Members:

NA

Narrative (include time and location):

- should exclusion zones be posted? Signs saying Do Not Enter
  40 HR TRNG REQUIRED
- re Asbestos. She will set up an area monitor by vent and will get results by Thurs. Samples analyzed inside building are below background. Activities inside bldg include wall & floor washing not asbestos removal per se.

EOD SUMMARY

CABLE TOOL: Set up on W398. Drilled to 23'. Dry

NP HSA: Completed B407 to TD 13.5 Dry. Deconned.

OA HSA: Completed B2. TD @ ≐ 7' Hole grouted

FIDLER: 1 FIDLER down; otherwise good progress

JMD 6/21/94 ~~SOIL GAS~~: 1N, 2N lines completed. Portions of 3N, 4N completed

SOIL GAS: Good progress

(MT Entry

Daily Weather Conditions: A.M. NA

P.M. NA

Recorded By [signature] QA Checked By Laura M. Morrison 8/15/94

TASK TEAM ACTIVITY LOG SHEET — SITE MANAGER LOGBOOK P.36

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA PHASE 1 — TASK NO: 34896

Date (mm/dd/yy): 6/22/94 TIME: 0715 PAGE 1 OF 2

Task Team Members:

John Davis Joletta Humpert Eric Taylor Greg Lodin Jeff Devanshin (OAHSA) Susan Alston Martha Carmen (Cable tool) Mark Howard Mike Monroe (SL) Mike Klidzejs Evelyn Mulcher (NPHSA) Craig Patterson Sally Brown (FIDLER)

Narrative (include time and location):

0715 All personnel on site. Low on OVA - pump switch broken on one - JD took it to Hazco last nite & they wouldn't fix it w/o a PO #. This morn, another OVA wouldn't calibrate w/ methane.
- Crews prepping for activities.

0800-0900 JD checking around IDW drums. Find K. McMahan. Load up 8 used (empty) Weston barrels in Bldg 91. Deliver to Rigs.

Cable tool continues drilling on W398. NPHSA set up on B40. OAHSA set up on B4.

Disc. w/ T. Trask. Mound wants 4 add'l borings around Bldg 24 for full rad/chem suite, 5' samples, hand augered. K. McMahan knows locations.

Disc. w/ T. Trask; for B16 (A7), only rad spls need to be collected. Wants a Soil Screening Facility spl ÷ 2'.
- Drill rig crew notices that B16 is located is under power lines. Try to find Bob Stanley or A. Spessard to relocate but unavailable so rig goes to B5.

Daily Weather Conditions: A.M. hot hazy humid 90°F

P.M. same, some clouds

Recorded By [signature] QA Checked By Laura M. Morrison 8/15/94

TASK TEAM ACTIVITY LOG SHEET — SITE MANAGER LOGBOOK P.37

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA PHASE 1 — TASK NO: 34896

Date (mm/dd/yy): 6/22/94 TIME: NA : ____ PAGE 2 OF 3

Task Team Members:

NA

Narrative (include time and location):

J. Geisler shows spot for trailer - by stop sign. No tiedowns required if its only a storage trailer. J. Geisler has no problem w/ outside decon.

J Geisler & JDavis relocate A7B9 - About 15'N of orig location per J. Geisler; holes 3, 7, 8, 6 are cleared. A7HSA will barricade off B3 and B7 for tomorrows drilling.

per T. Tank: ok to move A7B9 to north 15' to clear line.

@ 1530 A7B5 had to move rig approx 3' to finish collecting sample. JD contacted J. Geisler about the move. No utility lines encountered.

- CALL for Dan Garrison Mound Safety. JD asked to make postings for exclusion zone. DG says coveralls (airborne control) required = Level D. DG is checking on if Mound will supply coveralls. JD will check to see if SAIC will supply coveralls.

- call for K. McMahon. A7B16 on hold. Re broken Fidger - suggested switching cables. Also said high heat can affect readings.
- G. Loden reports that A7B7 will need to be moved to clear.

Daily Weather Conditions: A.M. NA

P.M. NA

Recorded By [signature] QA Checked By Laura M. Mohnkern 8/15/94

TASK TEAM ACTIVITY LOG SHEET

SITE MANAGER LOGBOOK P.38

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA PHASE 1 TASK NO: 34896

Date (mm/dd/yy): 6/22/94 TIME: NA : PAGE 3 OF 3

Task Team Members:

NA

Narrative (include time and location):

steam lines.

EOD SUMMARY:

A7 HSA: B5 completed. TD approx 7'. Hole grouted.

NP HSA: B405 completed and grouted. TD ≐ 14'. No water encountered. Set up on B406. Collected surf. sample.

NP Cable tool: W398 drilled to about 39' No water. Will let sit overnite.

SOIL GAS: AOC 22: 2 timers installed, 34 tubes on perimeter. Need urinalysis to get inside A22. Good productive day.

FIDLER: good progress. 1 FIDLER still down but not really affecting production

LAST ENTRY

Daily Weather Conditions: A.M. NA

P.M. NA

Recorded By [signature] QA Checked By Laura M. Morrison 8/15/94

TASK TEAM ACTIVITY LOG SHEET — SITE MANAGER LOGBOOK 839

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA PHASE 1 — TASK NO: 34896

Date (mm/dd/yy): 6/23/94 TIME: 0700 PAGE 1 OF 3

Task Team Members:

John Davis, Joletta Humpert, Evelyn Meagher, Greg Loder, Jeff DeUnden (OAHSA)
Mike Klidzejs, Eric Saylor (NPHSA), Mark Howard, Mike Monroe (SG)
Susan Abston, Martha Cramer (cable tool), Sally Brown, Craig Patterson (FIDER)

Narrative (include time and location):

0730 All personnel on site. Conduct H&S Briefing.
J. Geisler and [redacted] (4768) @ HR. BS will be JG replacement next week. Discuss misc. items. Agree to drill A7B8, A7B9 on Mon.

- Call to Gene Wolfe Bowen-Morrow. GW agrees to drill W400 w/ cable tool @ nuclear prices. Set up B-M man (Jim) for drum staging today - will meet Denny Gault @ 0900 @ Guard Post 2. Re pump for well develop. - B-M will supply pump and generator @ no cost but will charge for manpower. B-M will try to supply enough tubing to dedicate to each well. B-M coveralls and work uniforms are rentals and are laundered commercially.

Note: per K. McMahan, bumper guards on wells not necessary - none in high traffic areas.

1300. Only one OVA operational. Hazco delivers one and takes back 2 bad ones.
G. Loder repeat poss. high OVA on A7B3 @ 17.5'. Also wet

Daily Weather Conditions: A.M. hazy, overcast, humid. 80°F
P.M. Rain and lightning

Recorded By [signature] QA Checked By Tanya M. Morrison 8/15/94

TASK TEAM ACTIVITY LOG SHEET

SITE MANAGER LOGBOOK P.40

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA PHASE 1 TASK NO.: 34896

Date (mm/dd/yy): 6/23/94 TIME: NA PAGE 2 OF

Task Team Members:

NA

Narrative (include time and location):

NCRs to write up:
- 6" hole on W399
- No 2nd alk. run on B401 water sample
- No continuous coring on B1, B2
- delay in waxing geotech shelby tubes

sample there. Concern about cross-contamination. Discuss w/ T. Tank. Discuss w/ Alec Berry. He says to make sure its not just a nuisance hit.

1300 lightning alert. All crews @ t/r. Release drillers.
Note: cable tool moved to W400

1500 Alec Berry & Alan Spessard @ t/r. Their decision re A3 soil borings: drill all borings to bedrock. Collect RAD/chem spls to 30' @ 5' intvls. Collect geotech spls to TD @ discrete lithologic horizons. They would like to be contacted when a boring gets to around 40' w/ no bedrock.

Note: crews report that Mound HP has requested all sampling

Daily Weather Conditions: A.M. NA

P.M. NA

Recorded By [signature] QA Checked By Laura M. Morrison 8/15/94

TASK TEAM ACTIVITY LOG SHEET

SITE MANAGER LOGBOOK

P41

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA PHASE 1

TASK NO: 34896

Date (mm/dd/yy): 6/23/94 TIME: NA : _____ PAGE 3 OF 3

Task Team Members:

NA

Narrative (include time and location):

completed @ 330p (it was 345 before)

Per T. Tank; B402 to be converted to a well. No replacement for W398

LAST ENTRY

Daily Weather Conditions: A.M. NA

P.M. N/A

Recorded By [signature] QA Checked By Laura M. Morrison 8/15/94

TASK TEAM ACTIVITY LOG SHEET — SITE MANAGER LOGBOOK P-42

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA PHASE 1 — TASK NO.: 34896

Date (mm/dd/yy): 6/27/94 TIME: 07 30 PAGE 1 OF 3

Task Team Members:

JOHN DAVIS, JOLETTA HUMPERT, GEORGE WAHL, GREG LODER, JEFF DEVAUGHN (ATHSA), MIKE KLIDZEJS, ERIC SAYLOR (NPHSA), MARK HOWARD, MIKE MONROE (SC), SUSAN ABSTON, MARTHA CROMER (CABLE TOOL), SALLY BROWN, GREG PATTERSON (FINDER), PAUL PARRISH, DAVE CUMMINGS (GEOP)

Narrative (include time and location):

0730. Start @ HR. Conduct H&S Briefing.

Per K. McMahan - drums next week? B-M will have to supply until then.

Per T. Tank, A. Berry: on B3 (A7) drill only enough to collect 1st soil sample and water sample. If hole is showing true OVA hits (not methane) grout and abandon. If hole is clean, continue drilling to bedrock.

- Call R. Tusing to set up FINDER security escort for tomorrow 730-430. Meet @ Post 2. 6/27
- Call for DAVE Keeter. Surveillance sched. for ~~tues~~ Thurs. Needs copy of OU5 SAP. Call Will Kegley 615-481-8738

1000 @ cable tool Rig. Rig cant get to map location - B400. Call T. Tank - OK to drill 130' W. Change order has been done for this. No radio communic. - approx 1 hr downtime waiting for necessary communications.

1015 @ NPHSA. No water yet @ ≐45. Drillers have augers to 55'.

1030 @ ATHSA B3. Pursing wire to collect grab sample. Thin floater on top of water indicated

Daily Weather Conditions: A.M. overcast, cool, humid

P.M. same, pleasant

Recorded By [signature] QA Checked By Laura M. Marrison 8/15/94

TASK TEAM ACTIVITY LOG SHEET — SITE MANAGER LOGBOOK P43

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA PHASE 1 — TASK NO: 34896

Date (mm/dd/yy): 6/27/94 TIME: NA PAGE 2 OF 3

Task Team Members:

NA

Narrative (include time and location):

by interface probe

1330 @ NP HSA B406. Current depth is 60'. No water encountered. Poss bedrock. Refusal @ 60' - withand shale? Trying to auger through it. Can't spl collected @ 45'. Question is what is total depth in this situation? Auger refusal @ 63'. Decide this is bedrock. Can't soil sample @ 45' which is 20' above bedrock. This spl collected based on damp core but hole didnt make water.

@ 1330 A7 HSA B3, collected grab water sample. No VOC hits. Continue drilling.

1430 Call fm B3 HSA: current depth @ 30.0, No bedrock. JD calls A. Bray. A Bray says to go to 45 and call again.

1400 M. Cremer onsite. Deliver lock to cable tool.

1600. Call fm A7B3: to date.

17-24 w. sorted gravel, water @ 17

24-33 brn cly moist @ top then drying

33-36 TDTD gry cly, dry. VOC hit @ 34-36 10ppm neg meth, v. chloride, benzene.

Daily Weather Conditions: A.M. NA

P.M. NA

Recorded By [signature] QA Checked By Laura M. Morrison 8/15/94

TASK TEAM ACTIVITY LOG SHEET — SITE MANAGER LOGBOOK P 44

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA PHASE 1 — TASK NO: 34896

Date (mm/dd/yy): 6/27/94 TIME: NA : _____ PAGE 3 OF 3

Task Team Members:

NA

Narrative (include time and location):

NO spl collected @ 20' - CRSE GRAVEL, NO FINES.

1600 per Bill Stott; per Kathy Kaylor, OK to deliver the onsite. JD Mech truckdriver, positions trailer @ stopsign south of Bldg 105 as directed by B. Stott.

1700 Call A. Berry inform him of B3 situation

EOD SUMMARY: B3: drilled to 36' (SEE PG 44)

B406: drilled to 63' auger refusal No water Grouted and abandoned

B400 drilled to 24' No wtr. Poss ovA hit.

FIDLER: 45 points in NONADC 213 to date

SOIL GM: good progress

GEOPHYSC: CONTINUE EM31

LMT ENTRY

Daily Weather Conditions: A.M. NA

P.M. NA

Recorded By [signature] QA Checked By Laura M. Morrison 8/15/94

TASK TEAM ACTIVITY LOG SHEET — SITE MANAGER LOGBOOK P.45

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA PHASE 1 — TASK NO: 34896

Date (mm/dd/yy): 6/28/94 TIME: 0730 PAGE 1 OF 3

Task Team Members:

JOHN DAVIS JOLETTA HUMPERT GEORGE WAHL GREG LODER JEFF DEVAUGHN (ATHSA)
MIKE KLIDZETS ERIC SAYLOR (NDHSA) MARK HOWARD MIKE MONROE (SG)
SUSAN ABSTON MARTHA CRAMER (CARLE) SALLY BROWN CRAIG PATTERSON (FIDLER)
PAUL PARRISH DAVE CUMMINGS (GEOPHYS)

Narrative (include time and location):

0730 all personnel onsite. Conduct HYS Briefing. Crews prepping for activities.

Per T. Tank. "Delete" Field Change OS-NP-009 re location of B409. Wants B409 drilled as located on map. Will need another FC to put it back to orig. location.

NCR items: no spl @ 20' intvl in B3. Coarse gravels, fines washed out.

- well loc placement in W399, W397.
- geotech spls unwaxed.

0830 disc w/ Bill Stott: reemphasize safety glasses. Wants sign on HR (semi) w/ ph. numbers. Make sure exclusion zones are posted.

0830 Call fm A. Berry: B3 - keep drilling. BVA not a concern. Call him @ 45'. B400 - anticip. 5' above water table. If hit is methane, keep going. Otherwise, notify.

Per A. Berry: move B402 60' N toward fence. Confirm w/ A. Spessard.

0930 @ ATB3 w/ K. McNaghan & A. Berry. Depth @ 40' gives 10% LEL

Daily Weather Conditions: A.M. humid and warm

P.M. same

Recorded By [signature] QA Checked By Laura M. Morrison 8/15/94

TASK TEAM ACTIVITY LOG SHEET

SITE MANAGER LOGBOOK P-46

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA PHASE 1

TASK NO.: 34896

Date (mm/dd/yy): 6/28/94 TIME: NA PAGE 2 OF 3

Task Team Members:

NA

Narrative (include time and location):

per K. McMahon, A. Beary, & T. Tank, Abandon & grout.

- Then to B409. Moving back to ORIS. location. Ran to B400. Anticipated Bedrock @ 2-5' Water @ approx 25'. Per A. Beary, set the top of the well @ water level to avoid a dry hole during groundwater fluctuation. With A. Beary, pick a new location for well @ B402. (SEE pg 45)

- Call to Hazco: the OVA methane probe lets methane through; i.e. blocks volatiles other than methane.

1100 @ B409 Bedrock @ 14'. Missed subsurf. spl so will skid RIS and drill to get sample.

1130 Davis offsite. Back to Dayton office for misc. Project paperwork.

- New Prop drilling on schedule if all drilling and pad construct. completed by 6/30

- Call from A. Beary. He's found a spot for the Soils Disp. Well. Also wants to move B402 in Soils Disp. Zone.

Daily Weather Conditions: A.M. NA

P.M. NA

Recorded By [signature] QA Checked By Laura M. Morrison 8/15/94

TASK TEAM ACTIVITY LOG SHEET

SITE MANAGER LOGBOOK P.47

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA PHASE 1 TASK NO: 34896

Date (mm/dd/yy): 6/28/94 TIME: NA PAGE 3 OF 3

Task Team Members:

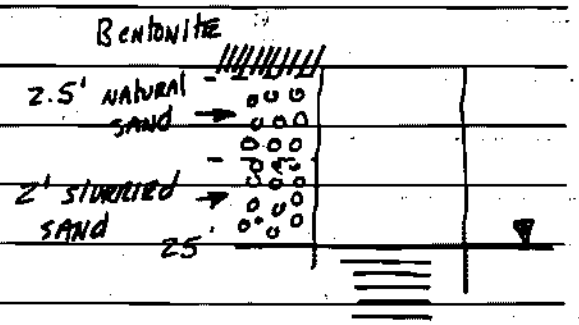
NA

Narrative (include time and location):

Drill new well in SDZ first - midafternoon tomorrow.

1630 Call fm S. Abston. While setting the well @ B400, about 2 1/2 ft of natural inplace sand fell in on the 2' of sand filter, essentially giving about 4' of sand pack. Discussed situation w/ SAIC hydrologists - decide integrity and structure of well not compromised. Told her to set bentonite.

NCR ITEM: EXCESSIVE SAND



NOTE: per P. Parrish, Geophy. crew completed EM-31 survey today.

Last Entry

Daily Weather Conditions: A.M. NA

P.M. NA

Recorded By [signature] QA Checked By Laura M. Morrison 8/15/94

TASK TEAM ACTIVITY LOG SHEET

SITE MANAGER LOGBOOK P. 48

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA PHASE 1 TASK NO: 34896

Date (mm/dd/yy): 6/29/94 TIME: 0730 PAGE 1 OF 2

Task Team Members:

John Davis, Joletta Humpert, George Wehl, Gary Loder, Jeff DeVaughn (A7HSA), Susan Ashton, Martha Cramer (CABLE), Mike Klidzejz, Eric Saylor (NPIRA), Sally Brown, Craig Parkinson (ADEQ), Mark Howard, Mike Monroe (SG), Paul Parrish, Dave Cummings (GEOP)

Narrative (include time and location):

0715 All personnel on site. Conduct H&S Briefing. Give Site Orientation Briefing to P. Parrish, D. Cummings, G. Wehl. Call for Bill Stott. 12 locks required for B16 lockout. [redacted] (3323) is head electrician. Mast must be down and street lites unlocked by 430. Need security escort for service of the substations.

0900 @ A7B7. G. Loder reports OVA hit of 60 ppm downhole. Call to Steve Davis Div H&S - SAIC. He said Action levels are set to breathing zone. Downhole hits of 60 ppm are "no big deal". G. Loder documents <1 ppm in breath zone. Breezy today also. Drillers shouldn't keep heads around top of auger flights. Accordi to S. Davis, ok to drill. Still must observe Action Levels in BZ

STEVE DAVIS 615 481-4755

1000 G. Loder reports 15% LEL @ B7. A. Berry on site. Decide to grout and abandon due to exceeding LEL Action Levels.

Kip Weaver (Mound Drawings) planning a trench work @ B16. Proposal a new location for B16 based on different idea of

Daily Weather Conditions: A.M. Warm & clear 75°F

P.M. Same w/ some rain

Recorded By [signature] QA Checked By Laura M. Morrison 8/15/94

TASK TEAM ACTIVITY LOG SHEET

SITE MANAGER LOGBOOK P.49

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA PHASE 1 TASK NO: 34896

Date (mm/dd/yy): 6/29/94 TIME: NA PAGE 2 OF 3

Task Team Members:

NA

Narrative (include time and location):

where septic tank is.

1100. Cable tool off of B400 and being decomm'd. Go w/ A. Berry & stake relocation of B402 = approx 110' N of orig. location; in SDZ.

- Told A. Berry about small "cave-in" @ B400. He was alright with it.

1200 Call for T. Tank. Informed me that we shouldn't have put in soil gas sampling in A21 per Change Order

1230 @ B16 for meeting to determine proper location [redacted] (3885). Relocate B16 approx 15' S. of orig. location. This loc. believed to be middle of tank. Tank believed to be @ ≐ 20', sitting on bedrock. Spls scheme is RAD spls only @ 5' intvls w/ VOA spls @ OVA hits. Want to penetrate tank. Bill staff checking to see if lockout is necessary - loc approx 15' for overhead lines. Activities is in tank. B. Staff says loc is ok no overheads. He'll work to clearance permit

Daily Weather Conditions: A.M. NA

P.M. NA

Recorded By: [signature] QA Checked By: Laura M. Morrison 8/15/94

TASK TEAM ACTIVITY LOG SHEET

SITE MANAGER LOGBOOK P. 50

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA PHASE 1

TASK NO: 34896

Date (mm/dd/yy): 6/29/94 TIME: NA PAGE 3 OF 3

Task Team Members:

NA

Narrative (include time and location):

1430 @ B16, K. McMahan says rig will shut down if any elevated FIDLER readings are recorded. A spl will be analyzed @ SSF to determine further action.

per B. Stott; clearance permits done for B6, B13, B14, B10, B11, B12 B16. B10 will require a street light lockout.

B12 relocated approx 12' SW per K. McMahan to avoid overheads

- All A7 boring cleared except B15.

EOD Summary

A7 B16: TDTD = 12' K. McMahan shut rig down @ 1600 due to high RADS - will analyze @ SSF

NP HSA: completed 403, 404. HSA done

NP Cable: TDTD = 20.0 Dry.

Last Entry

Daily Weather Conditions: A.M. NA

P.M. NA

Recorded By [signature] QA Checked By Laura M Morrison 8/15/94

TASK TEAM ACTIVITY LOG SHEET — SITE MANAGER LOGBOOK

PSI

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA PHASE 1 — TASK NO: 34896

Date (mm/dd/yy): 6/30/94 TIME: 0730 PAGE 1 OF 3

Task Team Members:

John Davis Joletta Hampton George Wahl Greg Lodge Jeff DeVaugh (A7HSA)
Mike Klidzeja Eric Saylor (NPHSA) Sally Brown Craig Patterson (FIDLER)
Susan Abston Marlon Cranck (NPCABLE) Mark Howard Mike Monroe (SG)
Paul Parrish ~~Dave Cummings~~ (GEOPH)
TTD 6/30/94 George Wahl

Narrative (include time and location):

0730 all personnel onsite. Call Roy Mowen to arrange wipes to release NP ATV HSA rig. TTD 6/30/94
- T. Tank arranges for A7HSA thru ~~Eff~~ 7/12. Will also add cable tool in A7.

Per K. McMahan: SSF results for last B16 spl = 16.9 pc thorium-232. Limit is 25 pc.

0930 Call for A7B16. Hit water @ 16.7' Cuttings for 14-16 quite hot. No one working in SSF due to Retirement Party. Rad water sample only? Water sample at all? Field parameters if rad only?

~~th 232~~

Call for K. McMahan who's @ SSF. Spl for 16-18 avg. 25 pc. Mound HP allows work to 25 pc w/ coveralls. For 25-50, th232 add Tyvex or blue smocks. Need Rad Work Permit. Ok to drill next 2 ft

- Call T. Tank. He confirms collect. of water sample - Rad only. Also do SOP 2.2 parameters.

1100 Collecting water spl. Per R. Mowen, action levels determined by actinium levels, not thorium. Actinium test may take sev. days.

NOTE: Sally Brown offsite @ ≐ 1000 (bad back). Eric Saylor fills in

Daily Weather Conditions: A.M. cool clear 70° pleasant

P.M. SAME

Recorded By [signature] QA Checked By Laura M. Morrison 8/15/94

TASK TEAM ACTIVITY LOG SHEET

SITE MANAGER LOGBOOK P.52

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA PHASE 1 TASK NO: 34896

Date (mm/dd/yy): 6/30/94 TIME: NA : PAGE 2 OF 3

Task Team Members:

NA

Narrative (include time and location):

Note: per K. McMahon, work shut down on B16, at least for today. Respirator fits may be required.
Rig and barricade must be offsite by EOD w/ augers in hole.
IDMs must be marked radioactive. IDMs must be moved.

1440 Mtg w/ A. Bray, A. Spreitzer, T. Tank @ OSE Bldg.

- July 20 issue NPPI FR
- Poss. necessity of areas.
- Add ≐ 4 soil gas around fuel tanks - A. Bray/Spreitzer will locate
- wants bedrock on all A7 boreholes - need to circumvent LEL. Need SSF samples at all intvls. Need to research how to lower LEL.

Paul Parrish reports mag/grad completed. To date EM31 and mag/grad on completed. May not be necessary for EM34

Daily Weather Conditions: A.M. NA

P.M. NA

Recorded By [signature] QA Checked By Laura M. Morrison 8/15/94

TASK TEAM ACTIVITY LOG SHEET — SITE MANAGER LOGBOOK P.53

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA PHASE 1 — TASK NO: 34896

Date (mm/dd/yy): 6/30/94 TIME: NA PAGE 3 OF 3

Task Team Members:

NA

Narrative (include time and location):

EOD Summary

NPHSA: Finished last HSA boring B404 (yesterday). M. Klidzeja working on logbooks today.

A7HSA: Shut down by Mound HP @ 1100 due to high rad hits.
TDTD = 18' Water spld @ ≐16'

NPCable Tool: Well set and bentonite seal. on B402. TD = 33.'
Screen @ ≐ 21-31' wtr @ 22.09
LAST ENTRY

Daily Weather Conditions: A.M. NA

P.M. NA

Recorded By [signature] QA Checked By Laura M. Morrison 8/15/94

TASK TEAM ACTIVITY LOG SHEET

SITE MANAGER LOGBOOK P. 54

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA PHASE 1 TASK NO.: 34896

Date (mm/dd/yy): 7/5/94 TIME: 0715 PAGE 1 OF 2

Task Team Members:

John Davis, Joletta Minard, Craig Patterson, Sally Brown (FIDLER), Greg Loder, Jeff DeVaugn (AZHISA), Chris Halley, Eric Snyder, George (WAHI), Susan Abston, Martha Cramer (Cable) (sed splg)

Narrative (include time and location):

0715 all personnel onsite. Conduct H&S Briefing.
J. Geisler onsite. Review last weeks activities w/her.
Alert her that B410 will require a LOTO.
- Get sediment sampling crew going. They go to office for logbook.
- Greg Schank onsite for SAIC QA surveillance.
  - M&TE QAAP 12.1 - Not necessary. QAAPs are guidelines. QAPjP takes precedence. Get rid of M&TE usage log - no entries.
  - Not recording lot numbers of calib. gases on M&TE log.
  - All pages numbered in logbooks. Cont Entry. Blank pages crossed out & dated

- Note: Drillers helpers for Cable tool sick today. Decide to start well development.

1000 to A7 B13 w/ G. Schank to observe operations.
1030 to Bldg 61 w/ G. Schank to observe FIDLER
1130 to NON-AOC w/ G. Schank to observe soil gas retrieval.

Daily Weather Conditions: A.M. humid, clear, 80°F

P.M. NR

Recorded By [signature] QA Checked By Laura M. Morrison 8/15/94

TASK TEAM ACTIVITY LOG SHEET — SITE MANAGER LOGBOOK P.55

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA PHASE 1 — TASK NO.: 34896

Date (mm/dd/yy): 7/5/94 TIME: NA PAGE 2 OF 2

Task Team Members:

NA

Narrative (include time and location):

Note: per M. Cannon; she heard from A. Meyer that Compuchem is getting chloroform hits (20ppb) from ambients.

1400 w/ G. Schank to sediment sample site SD014. He suggests we write on FC to initiate COC on spl tlr w/ Spl Mgr, i.e. life of sample begins w/ Spl Mgr. This requires that Sample Log Sheets be completed in field and transition is documented in Activ. Log.

- G. Schank notes that sample bottles are not labelled. "Not good enough" that bags are labelled.

JMP 7-5-94

1430

1630 w/ G. Schank to W399 to observe well pursing.

1515 Call from G. Loder on WS JMP 7/5/94 B13. Water in hole @ 31.3 TDTD = 34. 0-28 = cly 28-30 = sand, 30-34 = cly and a little gravel in spoon below 34. Instruct G. Loder to pump for grab water sampling.

LAST ENTRY

Daily Weather Conditions: A.M. NA

P.M. v. humid and hot 90°F

Recorded By [signature] QA Checked By Laura M. Morrison 8/15/94

TASK TEAM ACTIVITY LOG SHEET

SITE MANAGER LOGBOOK P. 56

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA PHASE 1 TASK NO: 34896

Date (mm/dd/yy): 7/6/94 TIME: 0730: PAGE 1 OF 2

Task Team Members:

John Davis, Joletta Humpert, Tanya Pfaff, Ron Smith, Juan Alvarez (SEED), Greg Loder, Jeff DeVausen (AZHSA), Chris Halley, Eric Taylor (SED), Susan Abston, Martha Cramer (CABLE), Mike Monroe, George Wahl (SG), Sally Brown, Craig Patterson (FIDLER)

Narrative (include time and location):

0730 All personnel onsite. Conduct H&S briefing.

G. Loder reports that water in B13 up to ≈ 15 BLS. Purging w/ bailer.

- Cable tool crew back.

Give Site Overview briefing to Chris Halley, Ron Smith, Tanya Pfaff

0900 @ HSA A7. Collecting water sample

0930 @ Cable tool. Grouting B402 & pulling casing.

M. Cramer wants to establish work/rest cycles today due to heat.

Debrief w/ G. Schank. Will leave Procedure checklists

- FC for Compuchem boxes. JH doing it.
- FC to eliminate methanol wipe on bottles
- FC to cover label w/ clear tape.
- FC to use teflon instead of parafilm
- FC to check VOAs for and cyanide for Chlorine & sulfides.
- FC for temp blanks in lab coolers. Use temp strips instead
- Confirm that split spoons are checked w/ OVA.

Daily Weather Conditions: A.M. hot 90°F humid sl. overcast

P.M. SAME

Recorded By [signature] QA Checked By Laura M. Morrison 8/15/94

TASK TEAM ACTIVITY LOG SHEET

SITE MANAGER LOGBOOK P.57

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA PHASE 1 TASK NO: 34896

Date (mm/dd/yy): 7/6/94 TIME: NA PAGE 2 OF 2

Task Team Members:

NA

Narrative (include time and location):

- No personnel decon- Take 5 gal of water. BMP
- Use stickies on sample bottles w/ IDs.
- JD will lineout & initial end of page. in logbooks.
- Lack of training for drillers. Use Attendance Record.

1500 call fm J. Geisler. RWP required to enter bldg for LOTO. for B410. IN Penthouse. Bring 6 locks. Bowser driller needs to attend LOTO. Need 4 locks each. Set up for 700a tomorrow = security escort.

1700 @ B13. G. Loder reports TDID = 62. Water encountered @ 59. Per A. Berry, do not collect a water spl @ this interval due to comingling of water; this intvl and intvl @ 31'.

LAST ENTRY

Daily Weather Conditions: A.M. NA

P.M. NA

Recorded By [signature] QA Checked By Laura M. Morrison 8/15/94

TASK TEAM ACTIVITY LOG SHEET

SITE MANAGER LOGBOOK P. 58

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA PHASE 1 TASK NO: 34896

Date (mm/dd/yy): 7/7/94 TIME: 0700 PAGE 1 OF 3

Task Team Members:

John Davis, Joletta Hompert, Tanya Pfaff, Juan Alvarado (SEEP), Susan Alston, Martha Cromer (CABLE), Greg Locker, Jeff DeVinsen (HSA), Sally Brown, Craig Patterson (FIDLER), Mike Monroe, George Wahl (SG), Chris Halley, Eric Saylor (SED.

Narrative (include time and location):

0700 all personnel onsite.

0700 Meet S.C. Patterson, J. Geisler @ Bldg 102 for Security escort to Bldg 50 for LOTO.

0800 Security arrives

0830 Complete LOTO @ Bldg 50 - street lites. Then to substation near B10 for LOTO of more street lites.

0900 Complete LOTO. Cable tool steels on B410

0945 G. Locker reports that B13 is completed. TD @ 70' @ bedrock

0900 T. Trask on site. Discuss schedule.

1100 Call T. Pedro leave msg. for FRI access

D. Sink, D. Work, J. Hager : B-M

G. Locker, J. DeVinsen, J. Davis, J. Minard, J. Alvarez : SAIC

1030 G. Locker reports B13 completed @ 70.0 bedrock

1430 @ OSE Bldg for mtg w/ T. Trask, A. Spisiak, A. Barry, K. McMahon

- B-M off site by COB 7/15 if they can't finish. & if Burlington can come on.
- B16 Actinium @ 20 pc/g.
- Will need Rad Worker II Tech (1-day) w/ respirator fit.
- We have SSF coverage tomorrow until 330. Cont spl to SSF by 300 for B14.

Daily Weather Conditions: A.M. hot, humid, 92°F

P.M. SAME

Recorded By [signature] QA Checked By Laura M. Morrison 8/15/94

TASK TEAM ACTIVITY LOG SHEET

SITE MANAGER LOGBOOK P.59

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA PHASE 1 TASK NO: 34896

Date (mm/dd/yy): 7/7/94 TIME: NA : PAGE 2 OF 3

Task Team Members:

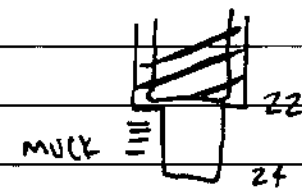
NA

Narrative (include time and location):

- re LEL; Adding water is first choice to reduce LEL.
- B16 water will go back in hole.

1400 @ cable tool. @ 17', clean rounded gravels, no water.
1415 @ HSA B14. Start drilling.

1545 After Mtg., back to BA10. Skelter lowers mast then accompanies me to Bldg 50 for removal of LOTO.
1600 @ Bldg 50 for LOTO.
1615 to substation. Complete removal of LOTO.
1630 G. Coder reports @ B14 @ 22-24' drill into a black muck, damp, OVA = >1000ppm DH, <1 ppm BZ (breezy) and LEL = 85% O_2 = 16%. Shut down Rig.
Also poor recovery. No spl @ 5', 10', spld 12-18
Auger @ 22'



Daily Weather Conditions: A.M. NA

P.M. NA

Recorded By [signature] QA Checked By Laura M. Morrison 8/15/94

TASK TEAM ACTIVITY LOG SHEET

SITE MANAGER LOGBOOK P.60

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA PHASE 1

TASK NO. 34896

Date (mm/dd/yy): 7/7/94 TIME: NA PAGE 3 OF 3

Task Team Members:

NA

Narrative (include time and location):

EOD summary: Cable tool (B410) @ 26'. Dry.

HSA: @ 24' High LEL

SEEP: sampled 1 SEEP, S01001; spl, dupe, MS/MSD

SEDS: Good progress. Approx 20 sed spls collected to date. No surface water encountered.

1930 All personnel off site.

Last entry

Daily Weather Conditions: A.M. NA

P.M. NA

Recorded By [signature]

QA Checked By Laura M. Marden 8/15/94

TASK TEAM ACTIVITY LOG SHEET — SITE MANAGER LOGBOOK P.61

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA PHASE 1 — TASK NO: 34896

Date (mm/dd/yy): 7/8/94 FRI TIME: 0700 PAGE 1 OF 1

Task Team Members:

JOHN DAVIS JOLETTA HUMPERT

CHRIS LODGE JEFF DEVAUGN (HSA A7)

JUAN ALVARADO

Narrative (include time and location):

0700 ONSITE. HSA CREW @ B14. LEL FROM yesterday (round OVA) has dissipated. Continue drilling.

0815 @ HSA B14. MINOR LEL hits around 8%. Prepping to collect grab water sample. Wtr in augers @ ≐ 21.7. @ 28-30', OVA @ >1000 ppm DH, LEL = 24%.

Spend rest of day purging well & collecting water spl. No pump available.

- Stake several more sed spls points in Ops Area
- Complete the inventory
- QA logbooks.

1530 TD offsite

LAST ENTRY

Daily Weather Conditions: A.M. OVERCAST, COOL, V. SL. DRIZZLE INTERMITTENT, 75°F

P.M. CLEARING AND WARM

Recorded By [signature] QA Checked By Laura M Morrison 8/15/94

TASK TEAM ACTIVITY LOG SHEET

SITE MANAGER LOGBOOK P. 62

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA PHASE 1 TASK NO: 34896

Date (mm/dd/yy): 7/11/94 MON TIME: 0700 PAGE 1 OF 2

Task Team Members:

John Davis Joletta Humphrey Mike Monroe George Wahl (SC)
Greg Loder Jeff DeVaughn (AFHSA) Juan Alvarado Tonya Pfahl (SEED)
Susan Abston Martha Cramer (CABLE) Craig Patterson Sally Brown (FIDUCIA)

Narrative (include time and location):

0700 all personnel on site
0730 Meet J. Weisler & S.C. Patterson for LOTO. Go to Bldg 50, then deep wells
0800 LOTO completed. To B14. LEL has dissipated over weekend. Continue dlrg.
- FINISH staking sed spls locs.
1000 @ B410 w/ A. Berry. Water tentatively tagged @ ≐ 31'. per A. Berry; set screen 2' above wtr but drill to bedrock. If necessary, grout w/ bentonite in sump to set well.
41 STHD 7-11-94
1530 @ B410. Wtr @ 30.95'. TDTD = 39.' Will set screen 29-39 tomorrow. Lowering mast for LOTO.
1535 @ B14. TDTD = 74.4ft. No bedrock. In clean w-sorted River gravel.
1615 @ Bldg 102 for LOTO. Guard there @ 1645. To Bldg 50 and deep wells
1700 LOTO completed.

Daily Weather Conditions: A.M. cool, clear, balmy, 75°F
P.M. warming to 85°F

Recorded By [signature] QA Checked By Laura M. Morton 8/15/94

TASK TEAM ACTIVITY LOG SHEET — SITE MANAGER LOGBOOK P.63

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA PHASE 1 — TASK NO: 34896

Date (mm/dd/yy): 7/11/94 TIME: NA PAGE 2 OF 2

Task Team Members:

NA

Narrative (include time and location):

EOD SUMMARY:

CABLE TOOL: TD = 41.2' WTR @ 30.95. CASING IN hole

A7 HSA: still on B14. TDTD = 76.0

SEEPS: Spld remaining flowing seep. Total of 2 seeps sampled. 3 more potentials but <11 dry.

SEDS: Good progress. Will complete tomorrow.

SG: IN SDB.

FIDLER: starting A22

LAST ENTRY

Daily Weather Conditions: A.M. NA

P.M. NA

Recorded By [signature] QA Checked By Laura M. Morrison 8/15/94

TASK TEAM ACTIVITY LOG SHEET — SITE MANAGER LOGBOOK P. 64

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA PHASE 1 — TASK NO: 34896

Date (mm/dd/yy): 7/12/94 TUES TIME: 0715 PAGE 1 OF 1

Task Team Members:

JOHN DAVIS, JOLETTA HUMPERT, MIKE MONROE, GEORGE WEHL (SG), GARY LODER, ERIC SMYLOR (AT HSA), SALLY BROWN, CRAIG PATTERSON (FIDLER), SUSAN ABSTON, MARTHA CRAMER (CABLE), CHRIS HALLEY (SED)

Narrative (include time and location):

0715 All personnel on site. Conduct H&S briefing.
0715 @ bldg 102 for LOTO w/ S.C. Patterson
0815 Guard shows up. To bldg 50
0830 R. Konig (electrician) shows up. Do bldg 50 LOTO
0845 @ pumphouse. Complete LOTO.

0845 Sed sptg completed. 27 sed locs. No flowing water.
JD to office for misc. paperwork

1600 Call fm G. Loder. @ B14, heaving sands @ 108. Difficulty keeping sand out of augers - no pilot bit in augers.
GL calls A. Beaty who says its ok just to auger to bedrock - no split-spoon sampling required.
Last Entry

Daily Weather Conditions: A.M. warm, humid, clear, 85°F
P.M. Same

Recorded By [signature] QA Checked By Laura M. Monroe 8/15/94

TASK TEAM ACTIVITY LOG SHEET — SITE MANAGER LOGBOOK P.65

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA PHASE 1 — TASK NO.: 34896

Date (mm/dd/yy): 7/13/94 Wed TIME: 07 : 00 PAGE 1 OF 2

Task Team Members:

John Davis, Joletta Humpert, Sally Brown, Craig Patterson (FIDLER), Greg Loder, Eric Saylor (A7 HSA), Mike Monroe, George Wahl (SL), Susan Abston, Martha Cramer (CAPLE), Juan Alvarado

Narrative (include time and location):

0700 all personnel on site.

0830 Complete B14, TD @ 114.0 hyper refusal. @ bedrock.
Setting up on B8.
- S. Abston, M. Cramer developing, purging, and sampling W397.
- Note: J. Humpert, Juan Alvarado pulling soil gas tubes in A22.

0900 Call T. Pedro. Put D. Sink, D. Work, J. Hagee, S. Abston, M. Cramer, J. Davis on access list for Fri 7/15
Also call M. O'Donahue. He will arrange HP coverage (Henry Robinson) and SSF support for 7/15, A7 drilling.

0915 Chris Holley onsite to replace Sally Brown on FIDLER

1000 Stake bldg PH holes w/ K. McMechan. PH1, PH2 in front, PH3, PH4 in back. Locs can be moved as necessary for utilities clearance.
- KM also wants to schedule Rad II training on Fri 7/15 or Fri 7/22

1100 Call for K. McMechan. Per OU5 Mgrs, its OK to dump New Prop cuttings @ site if there is no OVA hits.

1500 Lightning Alert per Henry Robinson

1530 Cable tool support truck gets stuck on perimeter road in New Prop.

Daily Weather Conditions: A.M. warm humid clear 85°F
P.M. heavy rains in PM.

Recorded By [signature] QA Checked By Laura M. Monroe 8/15/94

TASK TEAM ACTIVITY LOG SHEET

SITE MANAGER LOGBOOK P. 66

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA PHASE 1 TASK NO: 34896

Date (mm/dd/yy): 7-13-94 TIME: NA: PAGE 2 OF 2

Task Team Members:

NA

Narrative (include time and location):

EOD SUMMARY:

Grouted B410

Cable tool: continue developing 39'. Slow recharge.

HSA: complete B14 @ 114'. ~~Move to~~ 310 7/13/94.

Difficulty grouting - holes run out of grout due to washouts from heaving sands. Move to B8

Soil GAS: installing in AREA 3

FIDLER: working in A7

Last Entry

Daily Weather Conditions: A.M. NA

P.M. NA

Recorded By [signature] QA Checked By Laura M. Morrison 8/15/94

TASK TEAM ACTIVITY LOG SHEET

SITE MANAGER LOGBOOK P.67

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA PHASE 1 TASK NO: 34896

Date (mm/dd/yy): 7-14-94 THURS TIME: 07:00 PAGE 1 OF 3

Task Team Members:

JOHN DAVIS JOLETTA HUMPERT GREG LODER ERIC SAYLOR (HSA)
MIKE MONROE GEORGE WAHL (SG) SUSAN ABSTON MARTHA CRAMER (CABLE)
SALLY BROWN CRAIG PATTERSON (FIDLER)

Narrative (include time and location):

0700 All personnel on site. Conduct H&S Briefing.
Scan trash bags from drill rigs w/ FIDLER and OVA.
No detects on either so throw in dumpster.

0830 @ HSA @ A7, B8. Drilling nicely but poor recovery; in clay; @ about 8'.
- Then to Bldg 19 and pick up 6 poly 10M water drums for well develop.

0900 call for K. McMahon. Rad 1 training set for tomorrow

0930 call K. McMahon. Give him names for training: Also S. Willis for ACCESS:
J. DAVIS, S. Abston, M. Cramer (SAIC)
DENNIS SINK D. WORK (B-M)

depth @ 12'. high OVA (pegged) downhole. 35ppm 1 foot above casing. 0ppm in BZ. Neg. on dräeger tubes.
- D. Sink wants to send rig to yard on Fri to fix leaking hydraulic line.

NOTE: due to muddy conditions (inaccessible) to W397, Martha and Susan are developing B400.

Daily Weather Conditions: A.M. overcast, sl. drizzle, humid, 80°F
P.M. clearing some and warmer.

Recorded By [signature] QA Checked By Laura M Morrison 8/15/94

TASK TEAM ACTIVITY LOG SHEET

SITE MANAGER LOGBOOK P. 68

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA PHASE 1 TASK NO: 34896

Date (mm/dd/yy): 7/14/94 TIME: NA : _____ PAGE 2 OF 3

Task Team Members:

NA

Narrative (include time and location):

0945: Call from A. Meyer. Requirement for soil pH is analysis w/i 48 hrs but Singleton didn't do it because pH wasn't in their SOW. Amy wanted to know if we could recollect. I said NO because samples came from depth and holes are grouted.

1030 Call fm. G. Coder; @ B8, @ 14 ft, OVA and LEL pegged. Decide to let hole sit over lunch to dissipate.

1230 @ B8. G. Coder reports that after lunch, LEL was still high so added water to augers; to groundsurface (approx 10 gal), drove a spoon, and LEL dropped below action level.

Note: re OVA hit @ 16': 120ppm w/o methane probe, 85ppm w/ probe = 35ppm non-methane volatiles. Neg. benzene & vinyl chloride on dräger tubes.

1330 Spoon refusal @ 26' on B8. Will move to B9 next

Daily Weather Conditions: A.M. NA

P.M. NA

Recorded By [signature] QA Checked By Laura M. Morrison 8/15/94

TASK TEAM ACTIVITY LOG SHEET — SITE MANAGER LOGBOOK P.69

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA PHASE 1 — TASK NO: 34896

Date (mm/dd/yy): 7/14/94 TIME: N/A PAGE 3 OF 3

Task Team Members:

N/A

Narrative (include time and location):

1430 @ OSE for mtg w/ A. Spesard, T. Tank, K. McMahon, A. Berry.

- Discussion of Level D. What should we be wearing? Need to call SAIC Corporate. A. Spesard says disregard D. Garrison and S. Wibel. SMC can wear coveralls if we want but not that Mound is forcing us to wear them. Disregard above paragraph. Continue wearing coveralls in A7 per A. Spesard. Get copies of 3-dy supervised hrs for field staff.
- NPPI FR due 7/27. Get a copy.
- If we drill a boring 30-40' below water table, grab a water sample. 100 ml.

S. Alston & M. Creamer develop, purge & sample B400.

Last Entry

Daily Weather Conditions: A.M. NA

P.M. NA

Recorded By [signature] QA Checked By Laura M. Morrison 8/15/94

TASK TEAM ACTIVITY LOG SHEET

SITE MANAGER LOGBOOK P.70

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA PHASE 1 TASK NO: 34896

Date (mm/dd/yy): 7/15/94 FRI TIME: 0900 PAGE 1 OF 1

Task Team Members:

JOHN DAVIS	SAIC	DENNIS SINK	BOWER MORRIS
SUSAN ABSTON	↓	DWIGHT WORK	↓
MARTHA CRAMER	↓		

Narrative (include time and location):

@ OSE bldg @ 0900; J. DAVIS, S. ABSTON, M. CRAMER, D. WORK, D. SINK for Rad Worker II TRAINING.

LAST ENTRY

Daily Weather Conditions: A.M. NA

P.M. NA

Recorded By [signature] QA Checked By Laura M. Morrison 8/15/94

TASK TEAM ACTIVITY LOG SHEET — SITE MANAGER LOGBOOK P.71

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA PHASE 1 — TASK NO: 34896

Date (mm/dd/yy): 7/18/94 MON TIME: 07 00 PAGE 1 OF 2

Task Team Members:

G. Loder, G. Wahl (AZHSA) — C. Patterson (FIDELE)
S. Abston, M. Cramer (CAME) — J. Davis, J. Humpert
J. Alvarado, C. Holley (SG)

Narrative (include time and location):

0700 all personnel onsite. Call from K. McMahan - he says that if we have respirator fit-cards, may not need Mound fit testing.

G. Loder late, so release B-M crew to drill geotechnical holes on Main Hill - D. Sink estimates 3-4 hrs for completion.

Note: T. Tank pulled Sally Brown into office - no support for Cerezy P.

- S. Abston & M. Cramer purging and sampling W397 today.
- Note: Suggestions to speed up A7 drilling:
  - for shallow holes, no rig decon between holes.
  - for deep holes, discontinue spooning at some depth and rush to bedrock
  - if we get LEL hit, flood hole immediately.

1315 K. MacMahan called - HEPA ~~cartridge~~ SPA 7/18/94 cartridge good - we can have OV cartridges onhand if we want but is not necessary. Not required to have Mound fit-testing —

Daily Weather Conditions: A.M. warm & humid

P.M. same

Recorded By [signature] QA Checked By [signature] 8/15/94

TASK TEAM ACTIVITY LOG SHEET

SITE MANAGER LOGBOOK P. 72

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA PHASE 1 TASK NO: 34896

Date (mm/dd/yy): 7/18/94 TIME: NA PAGE 2 OF 2

Task Team Members:

J.H.

Narrative (include time and location):

as long as everyone is fittested by company and can provide cards.

LAST ENTRY

Daily Weather Conditions: A.M. NA

P.M. NA

Recorded By J. Humpert QA Checked By Laura M. Marian 8/15/94

TASK TEAM ACTIVITY LOG SHEET — SITE MANAGER LOGBOOK P.73

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA PHASE 1 — TASK NO: 34896

Date (mm/dd/yy): 7-19-94 TIME: NA PAGE 1 OF 2

Task Team Members:

Craig Patterson - Sally Brown (ADESE) Martha Cramer - Susan Abston (NP) Juan Alvarado - Chris Halley (Soil gas) Joe Schultheis, Elisa Jackson, Greg Loder - George Wahl (Area 7) Dave Cummings (Geophysical)

Narrative (include time and location):

0715 Onsite. All personnel present. K. MacMahan at trailer asking for copy of respirator fit cards for SAIC. Also inquiring about whether we ship soil screening results. He's worried that that may potentially be a conflict of interest because the lab may be able to falsify a result within 20%. I said we sometimes sent a copy of results or had a verbal that everything was OK to ship. He asked for a complete copy of results to date. I don't have a complete set because sometimes HP only gives one copy and I have to ship it. I explained to K.M. that it would be hard for the lab to use soil screening since those results are only for Th-232 and Pu-238. I told K.M. that we could stop sending the results if he wanted - he said he'd get back to us on it. Also took respirator cards and papers to copy.

0800 Ran ambient blank to G. Loder at B09. S. Abston and M. Cramer collecting W39701 at B397 w bailer.

Daily Weather Conditions: A.M. Sunny, 70°F

P.M. NA

Recorded By J. Humpert QA Checked By [signature] 7/21/94

TASK TEAM ACTIVITY LOG SHEET

SITE MANAGER LOGBOOK P.74

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA PHASE 1 TASK NO: 34896

Date (mm/dd/yy): ~~7-18-94~~ 7-19-94 JHD 7-20-94 TIME: NA PAGE 2 OF 2

Task Team Members:

J. Humpert et al.

Narrative (include time and location):

0930 MCramer and S. Alston not able to sample due to high levels of silt. Bailed well dry and still high level of silts. Called T. Tank for guidance.

1200 G Loder to trailer - at point of collecting last sample (B09005). Will finish hole after lunch.

1300 S. Alston and M. Cramer getting stable readings at B397 - will sample well.

1405 G. Loder finishes B09. Moving to B12 and is skipping decon of rig with approval from T. Tank.

1430 K. MacMahan called. EG&G fidler guy out today - only one that has key for room where FIDLERS are kept. He will get us a new calibrated FIDLER on Wed. morning. Also said we should stop sending soil screening results to lab as directed by EG&G. Just give labs verbal everything OK.

LAST ENTRY

Daily Weather Conditions: A.M. NA

P.M. Sunny 88°F

Recorded By Juletta Humpert QA Checked By [illegible] 7/21/94

TASK TEAM ACTIVITY LOG SHEET

SITE MANAGER LOGBOOK P.75

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA PHASE 1 TASK NO: 34896

Date (mm/dd/yy): 7/20/94 TIME: 0700 PAGE 1 OF 2

Task Team Members:

John Davis, Joletta Humphrey, Greg Loder, George Wahl (ATKA), Juan Alvarado, Chris Halley (SG), Martha Cramer, Susan Abston (QW Spls), Sally Brown, Craig Patterson (FIDLER)

Narrative (include time and location):

0700 all personnel on site
- J. Alvarado reports that 3 points in SDB exceeded FIDLER background, scanned for soil gas implacement. Did not drill there. He's checking w/ HP to determine background. OU5 HP says Action level is 3x background.
- G. Loder drilling B12
- S. Abston, M. Cramer sampling B402.
- K. McMahon onsite. Decide to finish B16 on Mon 7/25

0830 call fm K. McMahon. Approval fm A. Spessard, A. Berry - No need to decon back of rig between shallow holes. Need to use clean cutters.
- also ok to just ream below 30' unless lithology changes.

1000 @ B402. Spls crew finishing sampling there.
1015 @ B12. Just completed. TD = 22' Moving to B10
1030 @ B10 w/ J. Geiska. Move hole approx 10' S. to avoid a LOD. Scanned ok.

Daily Weather Conditions: A.M. hot and humid 90°F

P.M. same

Recorded By [signature] QA Checked By Laura M. Morrison 8/15/94

TASK TEAM ACTIVITY LOG SHEET

SITE MANAGER LOGBOOK
P 76

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA PHASE 1

TASK NO: 34896

Date (mm/dd/yy): 7/20/94 TIME: NA PAGE 2 OF 2

Task Team Members:

NA

Narrative (include time and location):

1300 @ B10. Just getting started.

1330 Call S. Willis for FRI access.

J. Davis, J. Minard, L. Coder, G. Wehl (SOTC)

D. Sink Dwork (B-M)

1400 Call from K. McMahan. He wants to stage all IDM drums in A7.

1500 G. Coder completes B10 @ 13.5'.

NOTE: FIDLER crew reports that field tests and disc. w/ Roy Mowen indicate that sweeping w/ OUT channel does not detect plutonium i.e. that its possible to get a hit on CH1 w/o a corresponding hit on OUT channel. Also found that to get a hit on CH1, FIDLER must be stationary and on the ground to a max. 2" above ground - not conducive to field screening.

Last Entry

Daily Weather Conditions: A.M. NA

P.M. NA

Recorded By [signature] QA Checked By Laura M. Morrison 8/15/94

TASK TEAM ACTIVITY LOG SHEET

SITE MANAGER LOGBOOK 0.77

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA PHASE 1 TASK NO: 34896

Date (mm/dd/yy): NA TIME: NA PAGE 1 OF 4

Task Team Members:

NA

Narrative (include time and location):

NOTE: The following is a summary of geotechnical sampling performed in the New Property, extended Phase. All samples were collected w/ the HSA auger

Lithologic Zones:

ZONE 1: surface mostly silty clays; clayey silty soil

ZONE 2: subsurface silty clays, commonly w/ fairly abundant limestone fragments; may be weathered bedrock in places

ZONE 3: BVA? sand, gravel, well graded, possible BVA material

NOTE: ZONE 2 consists of silty clays. In areas of higher elevations, clay grades downward to weathered bedrock (either shale or fossiliferous limestone)

Samples Collected

ZONE 1: B40521 B40721 B40821

ZONE 2: B40421 B40621 B40723

ZONE 3: B40622 B40822

Daily Weather Conditions: A.M. NA

P.M. NA

Recorded By [signature] QA Checked By Laura M. Morrison 8/15/94

TASK TEAM ACTIVITY LOG SHEET

SITE MANAGER LOGBOOK P 78

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA PHASE 1 TASK NO: 34896

Date (mm/dd/yy): NA TIME: NA PAGE 2 OF 4

Task Team Members:

NA

Narrative (include time and location):

GEOTECHNICAL SAMPLING (CONT.)

HOLE	SPL COLLECTED			
B401	NONE			
B403	NONE			
B404	B40421	BUCKET	2-8'	silty clay (ZONE 2)
B405	B40521	bucket	0.0-1.3	silty clay (ZONE 1)
		Shelby	0.0-1.5	
B406	B40621	bucket	6.0-24.0	clay (ZONE 2)
		Shelby	10.0-12.0	
	B40622	bucket	30.0-38.0	BVA (ZONE 3)
B407	B40723	bucket	6.0-10.0	silty clay (ZONE 2)
			3.0-11.0 (FM B405)	
	B40721	bucket	0.0-0.5	clayey to silty soil (ZONE 1)
		Shelby	0.0-2.0	
B408	B40821	bucket	0.0-0.5	silty soil (ZONE 1)
		Shelby	0.0-2.0	
	B40822	bucket	17.0-34.0	BVA (ZONE 3)
		Shelby	16.0-18.0	

Daily Weather Conditions: A.M. NA

P.M. NA

Recorded By [signature] QA Checked By Laura M. Morillo 8/15/94

TASK TEAM ACTIVITY LOG SHEET

SITE MANAGER LOGBOOK 0.79

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA PHASE 1 TASK NO: 34896

Date (mm/dd/yy): NA TIME: NA PAGE 3 OF 4

Task Team Members:

NA

Narrative (include time and location):

B409 NONE.

SAMPLE SUMMARY

ZONE 1	3 buckets	3 Shelbys
ZONE 2	3 buckets	1 Shelby
ZONE 3	2 buckets	1 Shelby

SOIL - silty clays
clayey silts (ZONE 1)

GRADES FIRM CLAYS (ZONE 2)

weathered shale or limestone
(PARTS of ZONE 2)

BVA
ZONE 3

Daily Weather Conditions: A.M. NA

P.M. NA

Recorded By [signature] QA Checked By Laura M. Morrison 8/15/94

TASK TEAM ACTIVITY LOG SHEET

SITE MANAGER LOGBOOK P. 80

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA PHASE 1

TASK NO: 34896

Date (mm/dd/yy): NA TIME: NA PAGE 4 OF 4

Task Team Members:

NA

Narrative (include time and location):

SUMMARY OF NEW PROPERTY EXTENDED PHASE DRILLING - MULTIPLE HOLES

B407 2 HOLES; 2ND to COLLECT SUBSURFACE SAMPLE
B409 2 HOLES; 2ND to COLLECT SUBSURFACE SAMPLE
B408 1 HOLE
B404 3 HOLES; 2ND to COLLECT SUBSURFACE SAMPLE
3RD to COLLECT SUBSURFACE DUPLICATE
B405 2 HOLES; 2ND to COLLECT SUBSURFACE SAMPLE
B406 1 HOLE
B403 3 HOLES;

B402 1 HOLE
B401 1 HOLE

LAST ENTRY

Daily Weather Conditions: A.M. NA
P.M. NA

Recorded By [signature] QA Checked By Laura M. Morrison 8/15/94

TASK TEAM ACTIVITY LOG SHEET — SITE MANAGER LOGBOOK P. 81

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA PHASE 1 — TASK NO: 34896

Date (mm/dd/yy): 7/21/94 THUR) TIME: 0700 PAGE 1 OF 1

Task Team Members:

John Davis, Joletta Humphrey, Gail Locke, George Wahl (A7HSA)
Juan Alumando, Chad Halley (SG), Susan Alston, Martha Cramer (GW Spl)
Sally Brown, Curtis Patterson (FIDLER)

Narrative (include time and location):

0700 all personnel on site. Conduct HAS briefing.
A7HSA set up on B11
K. McMahon and J. Geiska on site. Discuss concrete specs for well pads:
- 3000 psi
- max 2 hr to pour (from start of mix in yard to pour)
- need to keep concrete wet for several days.

Discuss w/ Skeeter Patterson. He wants to pour next Mon.
- Evaluate B-M invoice for A7HSA thru 6/30; their invoice agrees with our logbooks.

- A7HSA completes B11; TD @ 20.5 (bdek); water sampled @ 12.5
- S. Alston collects wtr spl @ B410. Then to W399 – difficulty pumping - v. slow recharge

Last Entry

Daily Weather Conditions: A.M. humid overcast 80°F
P.M. Sun warming to 90°F

Recorded By [signature] QA Checked By Laura M. Morrison 8/15/94

TASK TEAM ACTIVITY LOG SHEET

SITE MANAGER LOGBOOK P. 82

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA PHASE 1 TASK NO: 34896

Date (mm/dd/yy): 7/22/94 TIME: 07 00 PAGE 1 OF 1

Task Team Members:

Greg Loder George Wahl

Joletta Minend John Dmus

Narrative (include time and location):

0700 - G. Loder, G. Wahl on site.

Drill B6; TD @ 16' No water encountered.

JD on site @ 1030 after resp. fit test in Dayton.

1300 Drillers back from lunch. Send them to 17 to stage 10M drums

Last Entry

Daily Weather Conditions: A.M. overcast, sl. humid 80°F

P.M. Clearing some

Recorded By [signature] QA Checked By Laura M. Morrison 8/15/94

TASK TEAM ACTIVITY LOG SHEET — SITE MANAGER LOGBOOK D-83

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA PHASE 1 — TASK NO: 34896

Date (mm/dd/yy): 7-25-94 TIME: NA PAGE 1 OF 3

Task Team Members:

Joletta Humpert, Sally Brown, Craig Patterson (FIDLER)
Susan Abston, Martha Cramer (B16)
Juan Alvarado, Chris Halley (Soil Gas)

Narrative (include time and location):

0715 All personnel onsite at sample trailer.
Getting S. Abston and M. Cramer ready for B16.
S. Abston reviewing logbook from previous drilling.

0800 K. MacMahan stopped by - EG&G is now saying we can't use our own respirator fits. Also mentioned Allen Spesard was going to stop by to talk to crew.

0810 Called A. Spesard. - he doesn't need to speak to crew. Said we start without respirators but Henry Robinson and Keith MacMahan will be monitoring (w/ Fidler) to ensure we don't exceed the Actinium Action level of 60 pCi/g. If we exceed the action level, EG&G will not accept our respirator fit tests and we'll probably have to get fit test by Mound. (Keith's beeper #: ~~8-267-1170~~ 8-214 7/25/94)

0830 K. MacMahan called - informed him they were starting B16. He's heading down right now.
Call B. Gault - leave message to call about what needs to be done with drums outside Bldg 19.

Daily Weather Conditions: A.M. Sunny, 70°F
P.M. NA

Recorded By J. Humpert QA Checked By Laura M. Morrison 8/15/94

TASK TEAM ACTIVITY LOG SHEET

SITE MANAGER LOGBOOK P.84

PROJECT NAME: EG&G MOUND OUS OPERATIONAL AREA PHASE 1 TASK NO: 34896

Date (mm/dd/yy): 7-25-94 TIME: NA PAGE 2 OF 3

Task Team Members:

J. Humpert

Narrative (include time and location):

Talked to drillers - they're trying to line up concrete truck to come in tomorrow (Tues.) at 9:00am and 1:00 pm. Rod Long said they will need to get a pour card from Joyce tomorrow morning.

Skeeter and Steve will decon rig and equipment and get with me to line up HP to come and take wipes so they can get equipment back to yard. Also informed them concerning drums - waiting for call from D. Gault.

0840 D. Gault returned call - drums can be placed on pallets and set inside loading dock at Bldg 19. Bldg 19 is open and the pallets are inside. Empty barrels need to be cleaned out (deconned) and can also be placed inside loading dock.

1300 Martha reported they're done collecting samples at B16 - will continue doing lithologic descriptions until hitting sand layer and then will auger to bedrock (instructions per K. McMahan).

Skeeter & Steve working on blass pipe and deconning (cleaning) and moving barrels. Still very little

Daily Weather Conditions: A.M. NA

P.M. Sunny, humid, 85°F

Recorded By J. Humpert QA Checked By Laura M. Morrison 8/15/94

TASK TEAM ACTIVITY LOG SHEET — SITE MANAGER LOGBOOK P.85

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA PHASE 1 — TASK NO: 34896

Date (mm/dd/yy): 7-25-94 TIME: NA PAGE 3 OF 3

Task Team Members:

J.H

Narrative (include time and location):

water coming out of B399 per Skeeter & Steve. Concrete truck will be here tomorrow morning at 8:30am and 1:00 pm. Will need to get pour card from Joyce Geisler - left message on her voice mail

Juan A. informed me that Chris H. will be out with Kuscher (surveying) for OU9 tomorrow @ 10:30 am. Either myself or possibly Laura M. will fill in.

1400 G. Loder called - will come down tomorrow to fill in for C. Halley on soil gas crew. Asking if we had developed a second team yet. Will probably need Loder on Wed. to pull Area 21 with me.

1600 B16 complete - tagged bedrock at 48'. No rad hits during drilling. No water below 18'. Will pull & wipe augers Tues.
Offsite to deliver to fedex.
East Entry

Daily Weather Conditions: A.M. NA

P.M. NA

Recorded By J. Humpert QA Checked By Laura M. Morular 8/15/94

TASK TEAM ACTIVITY LOG SHEET

SITE MANAGER LOGBOOK 1.86

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA PHASE 1 TASK NO: 34896

Date (mm/dd/yy): 7/26/94 TUES TIME: 0700 PAGE 1 OF 2

Task Team Members:

Joletta Hompert John Davis Sally Brown Craig Patterson (FDH)
Greg Loder Juan Alvarado (SG)
Susan Abston Martha Cremer (AT HSA)

Narrative (include time and location):

0700 all personnel on site.
- HSA auger team grouts B16. V. slow recharge on W399 - unable to sample.

1015 @ B16. Crew waiting on Health Physics for results of dirty wipes on augers. Must wait for results before decontaminating equipment

Note: S.C. Patterson and S. Belt pouring well pads today. J. Geisler drops off permits for concrete - one for morning pour and one for afternoon pour.

- 1500 All pads are poured. Patterson and Belt putting Broom finishes on pads. Will be completed today

Note: unable to set up on B15 today. Waiting on wipes, then drillers decon all equip. (no 2nd wipe required).
No HP coverage past 1500 (H. Robinson in training)

Note: discussion w/ K. McMahan re FIDLER detection of plutonium; out channel does pick up plutonium than not as well as CH. 1. But to do it effectively in either channel, FIDLER must be stationary or moved v. slowly and must be 1-2" max

Daily Weather Conditions: A.M. overcast, cool, 70°F
P.M. warming to 85°F

Recorded By [signature] QA Checked By Laura M. Morrison 8/15/94

TASK TEAM ACTIVITY LOG SHEET

SITE MANAGER LOGBOOK P 87

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA PHASE 1 TASK NO: 34896

Date (mm/dd/yy): 7/26/94 TIME: NA PAGE 2 OF 2

Task Team Members:

NA

Narrative (include time and location):

Above ground. KM opinion that FIDLER isn't a good instrument used in a sweep for plutonium detection.

LAST ENTRY

Daily Weather Conditions: A.M. NA

P.M. NA

Recorded By [signature] QA Checked By Laura M. Morrison 8/15/94

TASK TEAM ACTIVITY LOG SHEET

SITE MANAGER LOGBOOK P. 88

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA PHASE 1 TASK NO: 34896

Date (mm/dd/yy): 7/27/94 WED TIME: 0700 PAGE 1 OF 1

Task Team Members:

John Davis, Joletta Humpert, Susan Alston, Martha Crawler (A7 HSA)
Chris Halley, Juan Alvarado (SG)
Sally Brown, Craig Patterson (FIDLER)

Narrative (include time and location):

0700 ~~All site on personnel~~ AMD 7/27/94 All personnel on site. Conduct HYS Briefing.

- HSA crew set up on B15. Good progress.
- JD + JH to New Property to pick up drums.
- Call T. Tank and give weekly update.
- Call for A. Brady. Discuss lack of water @ W399. He suggests we do more surging, with a surge block. Also said we shouldn't dump groundwater from IDW to ground.

1400 Complete B15 @ 19' No water. Drillers then deconning rig and washing barrels out. DRILLING COMPLETE!

LAST ENTRY

Daily Weather Conditions: A.M. Cool, overcast, quite pleasant

P.M. Same w/ some clearing

Recorded By [signature] 7/27/94 QA Checked By Laura M. Morrum 8/15/94

TASK TEAM ACTIVITY LOG SHEET — SITE MANAGER LOGBOOK p. 89

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA PHASE 1 — TASK NO: 34896

Date (mm/dd/yy): 7/28/94 Thurs TIME: 0700 PAGE 1 OF 1

Task Team Members:

John Davis, Joletta Humpert, Susan Abston
Chris Halley, Juan Alvarado (SC), Greg Coder
Craig Patterson, Sally Brown (FIDLER), Martin Cramer

Narrative (include time and location):

0700 all personnel on site.
G. Coder, S. Abston work on completing logbooks.
M. Cramer calibrates TLC meter.
J. Minger, G. Coder pulling soil gas samplers.
J. Davis QAs logbooks.

1400 Joe Schultheis on site to look @ AOC J geophysical grid.

1430 @ OSE Bldg for mtg w/ K. McMahan, A. Spessard, T. Tank, Jim Zahora

- small sg grid around A7 gas tanks. Research w/ Petrex
- PH holes scheduled for Tues, Wed next week
- A21; not sure what contaminant is there. Will run FIDLER. per A. Spessard.
- FIDLER methodology to remain the same.

Last entry

Daily Weather Conditions: A.M. Calm, clear, nice, 80°F
P.M. SAME

Recorded By [signature] QA Checked By Laura M. Marsden 8/15/94

TASK TEAM ACTIVITY LOG SHEET

SITE MANAGER LOGBOOK P.90

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA PHASE 1 TASK NO: 34896

Date (mm/dd/yy): 8/1/94 MON TIME: 0730: PAGE 1 OF 1

Task Team Members:

John Davis Joletta Humphrey Sally Brown Craig Patterson (FIDLER)
Juan Alvarado Chris Halley (SC)
Martha Cecula (SC)

Narrative (include time and location):

0730 all personnel on site.
FIDLER working in 3/SDB. Soil gas in A7.
1200 JD to office to discuss misc project details w/ T. Tank
Last Entry

Daily Weather Conditions: A.M. humid overcast 80°F
P.M. same

Recorded By [signature] QA Checked By Laura M. Morrison 8/15/94

TASK TEAM ACTIVITY LOG SHEET — SITE MANAGER LOGBOOK P.91

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA PHASE 1 — TASK NO: 34896

Date (mm/dd/yy): 8/2/94 TUES TIME: 0730 PAGE 1 OF 1

Task Team Members:

JOHN DAVIS Jolette Humpert — Martha Cromer

Juan Alvarado Chris Helley (SG)

Sally Brown Craig Patterson (FIDLER)

Narrative (include time and location):

0730 all personnel on site. FIDLER crew to 3/SDB, soil gas to A7. Yesterday, Jolette & Martha staked new prop. holes for As-builts Surveyors. Also put locks on wells & removed plastic. Checked for trash and IDM - one soil IDM left @ B409.

0900 To H_2O IDM staging area to cover drums. Then check scanned locations & PH holes; #1 & #2 moved N to edge of road approx 12' from edge of PH Bldg.

1200 JD to office. Evaluate Bowen-Morrow invoices. Look @ ODCs.

1700 Word from trailer - FIDLER survey completed!

Last Entry

Daily Weather Conditions: A.M. overcast, humid, 85°F, sl. breeze.

P.M. same.

Recorded By [signature] QA Checked By Laura M. Morrison 8/15/94

TASK TEAM ACTIVITY LOG SHEET

SITE MANAGER LOGBOOK P.92

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA PHASE 1 TASK NO: 34896

Date (mm/dd/yy): 8/3/94 Wed TIME: 0700: PAGE 1 OF 1

Task Team Members:

JUAN ALVARADO Chris Halley (soil gas)

JOHN DAVIS

Narrative (include time and location):

0700 Soil gas crew onsite. Working in A7

1900 JD onsite to check Access for Add'l Sampling Program.

Late Entry

Daily Weather Conditions: A.M. cool, overcast 75° F

P.M. warmer 85°F

Recorded By [signature] QA Checked By Laura M. Morrison 8/15/94

TASK TEAM ACTIVITY LOG SHEET

SITE MANAGER LOGBOOK 193

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA PHASE 1 TASK NO: 34896

Date (mm/dd/yy): 8/4/94 Thurs TIME: 0700 PAGE 1 OF 2

Task Team Members:

Juan Alvarado Chris Halley

Narrative (include time and location):

0700 Soil gas crew onsite. Working in A7.

0930 A. Berry calls J. Davis w/ Beaverdam office.
AB wants W399 surged to try to improve flow to collect groundwater sample.

1000 JDavis faxes July Accident Report to J. Geisler

1430 w/ OSE Bldg for mtg w/ A. Sperstad, A. Berry, K. McMahan, T. Tank
- Discuss issuance of New Prop. Phase 1 Field Report
- Discuss Add'l Sampling Plan
- Discuss 50/10 Validation. Will treat Ops Area and New Prop as a "single batch."
- A. Berry wants to surge W399.
- Some RAD Worker II slots; 730A 8/10 w/ 91B; Keith needs to know first thing Mon.

NOTE: Soil gas completes Area 7 today.
Last Entry

Daily Weather Conditions: A.M. cool overcast 80°F

P.M. warm to 85°F

Recorded By [signature] QA Checked By Laura M. Monson 8/15/94

TASK TEAM ACTIVITY LOG SHEET

SITE MANAGER LOGBOOK p.94

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA PHASE 1 TASK NO: 34896

Date (mm/dd/yy): 8/8/94 MON TIME: 0700 PAGE 1 OF 1

Task Team Members:

Joletta Humpert

Gary Lodin John Davis (PH BLDG BORINGS)

Martha Cramer Chris Halley (SOIL GAS)

Narrative (include time and location):

0700 Soil gas crew on site. Work in AJ all day.

0800 G. Lodin onsite w/ equip. from Village Rental.

0830 J. Davis onsite.

- To Bldg 24 to drill B17, B18, B19, B20; 0-5' each; with hand augering equipment.

1130 v. difficult drilling. Complete B17.

1530 continued diff. drilling. Complete B18.

Last Entry

Daily Weather Conditions: A.M. warm 85°F clear

P.M. sunny, sl. more humid

Recorded By [signature] QA Checked By Laura M. Morrison 8/15/94

TASK TEAM ACTIVITY LOG SHEET — SITE MANAGER LOGBOOK p.95

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA PHASE 1 — TASK NO: 34896

Date (mm/dd/yy): 8/9/94 TIME: 0730 PAGE 1 OF 1

Task Team Members:

Joletta Humpert

Martha Cramer Chris Halley (SL)

Greg Loder Juan Alvarado (PH BLDG BORINGS)

Narrative (include time and location):

SOIL GAS CREW WORKING IN AREA J. V. difficult drilling down steep hillside.

GL & JA continue w/ PH bldg. Complete B20? @ 3'. B19? Auger refusal @ 2'. Attempted to contact Mound personnel for direction.

Last Entry

Daily Weather Conditions: A.M. SEE INDIV. LOGBOOKS

P.M. "

Recorded By [signature] QA Checked By Laura M. Morrison 8/15/94

TASK TEAM ACTIVITY LOG SHEET

SITE MANAGER LOGBOOK P.96

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA PHASE 1 TASK NO.: 34896

Date (mm/dd/yy): 8/10/94 TIME: 0730 PAGE 1 OF 1

Task Team Members:

Joletta Humpert Greg Loder (SG multiple)
Chris Halley Marlin Cracraft (SG plate)
Joe Schultheis (W399)

Narrative (include time and location):

All personnel on site by 0730

1130 Call fm. Joe Schultheis. He checked water level in W399; water @ 26.29' from top of casing. Well depth @ 35.11 TOC. Screen @ 23-33 which means there's about 7' of water in screen which is a sufficient amount to surge.

1200 Call to Joletta. JH & GL pulling soil gas tubes in A3. CH & MC installing SG tubes in Area J.

Note: Yesterday GL completed drilling and sampling PH holes; all to 3'. Also grouted holes.

Call to Jim?; Bowser-Morner. Ted Keen set up to surge and pump W399 tomorrow; w/ G. Loder.

Last Entry

Daily Weather Conditions: A.M. NA

P.M. NA

Recorded By [signature] QA Checked By Laura M. Morrison 8/15/94

TASK TEAM ACTIVITY LOG SHEET — SITE MANAGER LOGBOOK

P.97

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA PHASE 1 — TASK NO: 34896

Date (mm/dd/yy): 8/11/94 TIME: NA PAGE 1 OF 1

Task Team Members:

Joletta Humpert, Paul Parrish (SG Altaifuf)

Chris Helley Juan Alvarado (SG Place)

Greg Loder (W399)

Narrative (include time and location):

GL supervises Bowler Morner to ~~pu~~ ONDF/IC/SY SURGE and pump W399

@ start, WL @ 24.1' well depth = 33.0

SURGE for 1 hour, check turbidity SURGE ASMN.

Then ~~point~~ TIM 8/12/94 bail well dry, 4.5 gal removed.

SEE W399 logbook for details

CMT Entry

Daily Weather Conditions: A.M. NA

P.M. NA

Recorded By [signature] QA Checked By [signature] 8/15/94

TASK TEAM ACTIVITY LOG SHEET

SITE MANAGER LOGBOOK P.98

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA PHASE 1 TASK NO: 34896

Date (mm/dd/yy): 8/15/94 MON TIME: 0715 PAGE 1 OF 1

Task Team Members:

Joletta Humpert (SG Retrieve) (Soil G Place) Chris Halley
Paul Parrish (SG Retrieve)
Martha Cramer (SG Place

Narrative (include time and location):

All ~~personell~~ JH 8/15/94 personnel onsite by 0730

Placement Crew working in Area 61 and Area J.

Retrieval crew in Area 7.

Last Entry

Daily Weather Conditions: A.M. NA

P.M. NA

Recorded By Joletta Humpert QA Checked By Laura M. Marusa 9-27-94

TAILGATE SAFETY MEETING LOG FORM SITE MANAGER LOGBOOK: 9.262

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA PHASE 1 TASK NO: 34896

DATE: 6-20-94 Su (M) Tu W Th F Sa TIME: 0730

WEATHER: humid, hazy, warm

WORKING CONDITIONS: good

REQUIRED PPE: boots & glasses, add hardhat in construction zones & exclusion zones.

NOTES: Discussed

- speed limit of 15 mph
- must wear seat belt
- No parking or storage w/i 8' of security fence
- Mound PPE; glasses & boots.

LAST ENTRY

The following individuals attended the daily "tailgate" safety meeting: (Signatures)

[illegible]	Susan Elliston	[illegible]
[illegible]	Joletta Jumpert	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	

SITE HEALTH & SAFETY OFFICER

TAILGATE SAFETY MEETING LOG FORM — SITE MANAGER LOGBOOK P-263

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA PHASE 1 — TASK NO: 34896

DATE: 6-21-94 Su M (Tu) W Th F Sa TIME: 0730

WEATHER: hazy, overcast humid 75°F

WORKING CONDITIONS: good but wet

REQUIRED PPE: glasses, boots, hardhat in exclusion zones, construction zones

NOTES:

Discussed

- lightening alerts. Mound HP passes to word.
- tick precautions and what to do if find an imbedded tick
- Drilling in A7: radiological concerns. Stay upwind of dust. No eating, drinking, chewing in exclusion zone. Inhalation, ingestion are primary exposure routes.
- If hits are recorded on monitoring equip (OVA, O2/LEL) mound will supply work coveralls and will launder.
- Slippery driving conditions in new property
- Heat stress

Last entry

The following individuals attended the daily "tailgate" safety meeting: (Signatures)

[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	

SITE HEALTH & SAFETY OFFICER

TAILGATE SAFETY MEETING LOG FORM SITE MANAGER LOGBOOK P.264

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA PHASE 1 TASK NO: 34896

DATE: 6/22/94 Su M Tu (W) Th F Sa TIME: 0730

WEATHER: warm, humid, 90°F, clear

WORKING CONDITIONS: good

REQUIRED PPE: glasses, boots, handwear as required.

NOTES: Discussed

- training forms
- Don't let drillers start rig, put up mast, etc until exclusion zone is established
- Get urine samples turned in
- Chiggers are bothersome. Need more insect spray
- Heat stress – drink water and safety breaks.

Last Entry

The following individuals attended the daily "tailgate" safety meeting: (Signatures)

[illegible]	[illegible]	
[illegible]	[illegible]	
[illegible] Humpert	[illegible]	
Yaunta Cramer	[illegible]	
Gary Patterson	Sally Brown	
Eric Taylor	[illegible]	

[illegible]

SITE HEALTH & SAFETY OFFICER

TAILGATE SAFETY MEETING LOG FORM — SITE MANAGER LOGBOOK P. 265

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA PHASE 1 — TASK NO: 34896

DATE: 6/23/94 Su M Tu W (Th) F Sa TIME: 0730

WEATHER: hazy & overcast, lightning alert in aft.

WORKING CONDITIONS: good

REQUIRED PPE: glasses, boots, handwate as required

NOTES: Discussed

- earplugs, sign on exclusion zone, coveralls, training records to be turned in, urine samples, teflon tape on soil samples plastic under rig and drums

Last Entry

The following individuals attended the daily "tailgate" safety meeting: (Signatures)

Eric Saylor	Martha L. Cramer	S.C. Pottinger
Susan J. Gilston	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	Joletta Humphrey	
[illegible]	Steve [illegible]	

SITE HEALTH & SAFETY OFFICER

TAILGATE SAFETY MEETING LOG FORM SITE MANAGER LOGBOOK P. 266

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA PHASE 1 TASK NO: 34896

DATE: 6/27/94 Su (M) Tu W Th F Sa TIME: 0730

WEATHER: overcast, sl. drizzle 65°F

WORKING CONDITIONS: wet, slippery.

REQUIRED PPE: glasses, boots. Add hardhats in exclusion zones and construction zones

NOTES: Discussed:

- drill crews to wear coveralls
- wet driving conditions

Last Entry

The following individuals attended the daily "tailgate" safety meeting: (Signatures)

[illegible]	[illegible]	
Eric Taylor	[illegible]	
[illegible]	George Wahl	
Susan J. Olston	[illegible]	
[illegible]	[illegible]	
[illegible]		

SITE HEALTH & SAFETY OFFICER

TAILGATE SAFETY MEETING LOG FORM — SITE MANAGER LOGBOOK P-247

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA PHASE 1 — TASK NO: 34896

DATE: 6/28/94 Su M (Tu) W Th F Sa TIME: 0730

WEATHER: hazy, overcast, cool

WORKING CONDITIONS: good

REQUIRED PPE: glasses and boots; add hardhats in exclusion zones and construction sites

NOTES: Discussed:

- Logbook protocol: line outs, signatures, blank spaces, Abandonment Log
- Audit on Thursday - Audit protocol, housekeeping
- decon station - flammables in cabinet @ EOD
- tape (teflon) soil jars @ Rig.
- Wear earplugs @ Rig
- Action levels > 1 ppm on OVA
- Glove changes
- Joletta Humpert in charge when JDavis not here.

Last Entry

The following individuals attended the daily "tailgate" safety meeting: (Signatures)

Sally A Brown	Eric Saylor	
[illegible]	Joletta Humpert	
Guy Pettus		
Marbo L Cross		
Susan L Alder		
[illegible]		

SITE HEALTH & SAFETY OFFICER

TAILGATE SAFETY MEETING LOG FORM

SITE MANAGER LOGBOOK P. 268

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA PHASE 1

TASK NO: 3489

DATE: 6/29/94 Su M Tu (W) Th F Sa TIME: 0730

WEATHER: clear, sl. humid 80°F

WORKING CONDITIONS: GOOD

REQUIRED PPE: glasses and hard hats are required.

NOTES:

Discussed:

Action levels. Level D is <1 ppm OVA. Level C is 1-5 ppm w/o benzene or vinyl chloride. Level B is >5 ppm or >1 ppm w/ benzene or vinyl chloride.

10% LEL: >10% LEL must be intrinsically safe environment which drilling is not.

Safety glasses: Always wear them!

Last Entry

The following individuals attended the daily "tailgate" safety meeting: (Signatures)

Sally Brown	Jeff DeLaney	
	George Wade	
Susan T Alston		
Mantraz Cramer		Joletta Humphrey
	S C Patterson	
Eric Taylor		

SITE HEALTH & SAFETY OFFICER

TAILGATE SAFETY MEETING LOG FORM — SITE MANAGER LOGBOOK P 269

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA PHASE 1 — TASK NO: 134896

DATE: 6/30/94 Su M Tu W (Th) F Sa TIME: 1200

WEATHER: clear cool humid 70°F

WORKING CONDITIONS: good

REQUIRED PPE: glasses and boots, hardhats as required

NOTES: Discussed:

- chigger protection
- Action levels w/ Big. Mound HP will determine working levels and will issue stopwork as necessary

LAST Entry

The following individuals attended the daily "tailgate" safety meeting: (Signatures)

[illegible]		
[illegible]		
[illegible]		
[illegible]		
Juletta Humpert		

SITE HEALTH & SAFETY OFFICER

TAILGATE SAFETY MEETING LOG FORM

SITE MANAGER LOGBOOK: P. 270

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA PHASE 1

TASK NO: 34898

DATE: 7/5/94 Su M (Tu) W Th F Sa TIME: 0730

WEATHER: clear, humid, 80°F

WORKING CONDITIONS: good

REQUIRED PPE: glasses, boots, hardhats as required

NOTES:

Discussed

- drilling schedule to finish by 7/12
- Road protection: ingestion, inhalation. No eating, drinking, smoking in exclusion zone. Stay upwind of borehole. If dusty conditions occur, water the hole
- New Property sediment sampling: ticks & poison ivy

Last Entry

The following individuals attended the daily "tailgate" safety meeting: (Signatures)

Susan L. Alston	Chris D. Hall	
George Wahl	Martha L. Barnes	
[illegible]	Juletta Thompson	
[illegible]	[illegible]	
[illegible]		
Sally S. Brown		

[illegible]

SITE HEALTH & SAFETY OFFICER

TAILGATE SAFETY MEETING LOG FORM

SITE MANAGER LOGBOOK P 271

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA PHASE 1

TASK NO: 34896

DATE: 7/6/94 Su M Tu (W) Th F Sa TIME: 0730

WEATHER: sl. overcast, humid, warm

WORKING CONDITIONS: good

REQUIRED PPE: glasses & boots, handwarts as required.

NOTES: Discussed

- weather conditions

Lost Entry

The following individuals attended the daily "tailgate" safety meeting: (Signatures)

Greg Patterson	Juletta Huppert	
Susan L Alston	George Wahl	
Martin Cramer	Steve C. Bell	
Sally A Brown Jr	Skeeter Patterson	
Jeff Dougherty	[illegible]	
[illegible]		

SITE HEALTH & SAFETY OFFICER

TAILGATE SAFETY MEETING LOG FORM SITE MANAGER LOGBOOK P. 272

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA PHASE 1 TASK NO: 34896

DATE: 7-12-94 Su M (Tu) W Th F Sa TIME: 0800

WEATHER: warm clear humid 80°F

WORKING CONDITIONS: good

REQUIRED PPE: hardhats as required, glasses and boots

NOTES:

Discussed:
scheduling
heat stress
chiggers
Last entry

The following individuals attended the daily "tailgate" safety meeting: (Signatures)

[illegible]	Eric Taylor	
Sally Brown	Juletta Humpert	
George Wahl		
[illegible]		
Susan L. Alston		
[illegible]		

SITE HEALTH & SAFETY OFFICER

TAILGATE SAFETY MEETING LOG FORM — SITE MANAGER LOGBOOK P-213

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA PHASE 1 — TASK NO: 34896

DATE: 7/13/94 Su M Tu (W) Th F Sa TIME: 0730

WEATHER: warm clear humid 85°F

WORKING CONDITIONS: good

REQUIRED PPE: glasses, boots, handhats as required

~~Discussed~~ JHD 7/13/94

NOTES:

Discussed:

chigger protection

tick protection

OSHA medical surveillance - required for all intrusive activities

Last Entry

The following individuals attended the daily "tailgate" safety meeting: (Signatures)

[illegible]	[illegible]	
Eric Taylor	Juliette Humpert	
George Wall		
[illegible]		
Guy Patton		
Susan J Alston		

[illegible]

SITE HEALTH & SAFETY OFFICER

TAILGATE SAFETY MEETING LOG FORM

SITE MANAGER LOGBOOK P. 274

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA PHASE 1

TASK NO: 34

DATE: 7/14/94 Su M Tu W (Th) F Sa TIME: 0750

WEATHER: overcast sl drizzle humid 75°F

WORKING CONDITIONS: slippery

REQUIRED PPE: glasses & boots; headlamp as required

NOTES: Discussed

- poison ivy. Clean w/ Clorox.
- OSHA medical required
- slippery driving conditions

Last Entry

The following individuals attended the daily "tailgate" safety meeting: (Signatures)

[illegible]	Juliette Humpert	
George Wahl	George Wahl	
[illegible]		
Sally Brown		
Gerard L Alden		
Maurice L Cramer		

SITE HEALTH & SAFETY OFFICER

TAILGATE SAFETY MEETING LOG FORM — SITE MANAGER LOGBOOK

P. 275

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA PHASE 1 — TASK NO: 34896

DATE: 7/18/94 — Su (M) Tu W Th F Sa — TIME: 0730

WEATHER: WARM, 80°F, CLEAR

WORKING CONDITIONS: good

REQUIRED PPE: glasses and boots, hardhats as required

NOTES:

Discussed:

- keep vehicles gassed up
- watch for POISON IVY.

Last Entry

The following individuals attended the daily "tailgate" safety meeting: (Signatures)

J. Humpert		
[illegible]		
[illegible]		
[illegible]		

SITE HEALTH & SAFETY OFFICER

TAILGATE SAFETY MEETING LOG FORM — SITE MANAGER LOGBOOK P.276

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA PHASE 1 — TASK NO: 34896

DATE: 7/21/94 Su M Tu W (Th) F Sa TIME: 0700

WEATHER: overcast, humid

WORKING CONDITIONS: good

REQUIRED PPE: glasses and boots; add handhat as required.

NOTES:

Discussed

- all intrusive personnel must submit a pre-work urine sample.
- humid conditions and possible lightning alert

LAST ENTRY

The following individuals attended the daily "tailgate" safety meeting: (Signatures)

[illegible]		
Juletta Humpert		
[illegible] Hale		
[illegible]		
[illegible]		
[illegible]		

SITE HEALTH & SAFETY OFFICER

TAILGATE SAFETY MEETING LOG FORM — SITE MANAGER LOGBOOK P-27

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA PHASE 1 — TASK NO: 34896

DATE: 7/27/94 Su M Tu (W) Th F Sa TIME: 0715

WEATHER: overcast, cool

WORKING CONDITIONS: good

REQUIRED PPE: glasses, boots; hardhat as required

NOTES:

Discussed:

- all personnel must read the HAS Site Specific Checklist before going into an area. (AOC)

The following individuals attended the daily "tailgate" safety meeting: (Signatures)

[illegible]		
Guy Potter		
[illegible]		
[illegible]		
[illegible]		
J Humphrey		

7/27/94

SITE HEALTH & SAFETY OFFICER

A.3 SOIL GAS LOGBOOK

Soil Gas Logbook

AOCs: AREA 22
AREA 21
AREA 3
AREA 7
AREA J
AREA SDB
AREA 61
AREA 13

SOIL GAS
LOG BOOK

AOCs

PROJECT TITLE: **EG&G MOUND OU5 OPERATIONAL AREA PHASE 1 RI/FS FIELD INVESTIGATIONS**

WORK SITE: *MOUND PLANT*
Miamisburg, Ohio
OU5 New Property

ACTIVITY: *Mound OU5 Operational Area Phase 1 RI/FS Field Investigations*

CONTRACT #: *BOA 52264*
TASK ORDER: *34896*

PROJECT MANAGER: *Thomas Tank*
COMPANY NAME / ADDRESS: *Science Applications International Corporation*
4031 Colonel Glenn Hwy ,Dayton, Ohio 45431
TELEPHONE NUMBERS: *(513) 429-2699*

SUPERVISORS: *OU5 Manager: Alan Spesard (513)865-3859*
SAIC Proj. Manager: Thomas Tank (513)429-2699

EMERGENCY RESPONCE: *Police / Ambulance / Fire 911 or 865-4040*

PROCEDURES: *SOP 1.1, SOP 2.2, SOP 3.1, SOP 5.1, SOP 6.1, SOP 6.3*

START DATE: 06/22/94
END DATE: 09/07/94

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SOIL GAS
P.II

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1
PROJECT NO.: 34896

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SOIL GAS
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PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1
PROJECT NO: 34896

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124	Task Team Activity 8/10/94	154	Task Team Activity 8/23/94
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138	~~Task Team Activity~~ SDH 8/18/94 Blank Page	168	Task Team Activity 9/7/94
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SOIL GAS
P IV

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1
PROJECT NO: 34896

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AOCs

SOIL GAS

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PROJECT NO. 34896

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TASK TEAM ACTIVITY LOG SHEET — SOILGAS

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 — TASK NO.: 34896

Date (mm/dd/yy): 7/26/94 TIME: NA PAGE 1 OF 4

Task Team Members:

J. Alvarado pg. 72

G. Lodes

Narrative (include time and location):

0710 Arrive

0715 Determine what needs to be done (pulled or inserted)

~~0720 Picked up~~ pu 7-28-94

0720 Load up truck get burn permit signed

0815 Picked up HP

0830 At area 3

0845 set up Area 3 G 15 under asphalt

0855 Install Area 3 G 15; 12"; bag 9; #469

0900 Construction problem had ~~to~~ to move

showed I Giesler points not permitted in Area 3

points - along L and M lines

9:15 move generator

0923 set up I-13 Area 3

0930 Install Area 3 I-13; Bag 19; 10"; #470

0935 INSTALL AREA 3 J-13; BAG 19; ~~20"~~ 16" GC rejected; #471

0940 Setup Area 3 K-13; BAG 19; 18"; #472 PAINT FUMES

FROM NEARBY ARE DETECTABLE

0947 Set up Area 3 K-14

0951 Install Area 3 K-14; Bag 19; #473; 14"

0952 Set up Area 3 L-14

Daily Weather Conditions: A.M. 68°F

P.M. NA

Recorded By [signature] QA Checked By [signature]

TASK TEAM ACTIVITY LOG SHEET — SOIL GAS

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 — TASK NO.: 34896

Date (mm/dd/yy): 7/26/94 TIME: NA PAGE 2 OF 4

Task Team Members:

J. Alvarado

G. Lodes

pg. 73

8/22/94

Narrative (include time and location):

0950 Install Area 3 L-14; Bag 9; 10"; # 474

1000 Set up Area 3 M-14 moved 3' closer to L-14 (road)

1005 Install Area 3 M-14; Bag 9; Full; # ~~474~~ 475 JA 7-28-94

1007 Setup Area 3 N-13

1014 Install Area 3 N-13; Bag 9; 14"; # ~~475~~ 476 JA 7-28-94

1015 Setup Area 3 M-13;

1019 Install Area 3 M-13; Bag 9; 10"; # ~~476~~ 477 JA 7-28-94

1025 Set up Area 3 L-13 Back in road

1037 Install Area 3 L-13; Bag 9; ~~10~~ 8"; # ~~477~~ 478 JA 7-28-94

1045 moved to area 7

1100 Determined what to be done.

1110 All had to go and get permits

1120 Lunch

1200 Set up sample plan from available permits.

1230 make tubes and back work

1328 Setup Area 7 D2 (Timer set)

1336 Install Area 7 D2; full; Bag 9; 479 closest to stake

1341 Install Timer #1 2114E Time test full (North west sample)

1345 Install Timer #2 2114E Time test full (North East sample)

1347 move ~~truck~~ truck next Area 7 JA 7-28-94

Daily Weather Conditions: A.M. NA

P.M. 78°F, 49% humidity

Recorded By James J. Ahmad QA Checked By Juletta Humpert

TASK TEAM ACTIVITY LOG SHEET — SOILGAS

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 — TASK NO.: 34896

Date (mm/dd/yy): 7/26/94 TIME: NA PAGE 3 OF 4

Task Team Members:

J. Alvarado

G. Loder

Pg. 74

JPH 8/22/94

Narrative (include time and location):

1351 Set up Area 7 G10 Timers

1357 Install Area 7 G10 14"; Bag 9; 480 closest to state

1404 Install Area 7 G10 Timer #1 2114E 14" (Northeast) of sump

1408 Install Area 7 G10 Timer #2 2114 14" (Northwest) of sump

1410 move to other part of Area 7

1422 Set up Area 7 Q16 Timers

1425 Install Area 7 Q16 closest to state 481 Full

1431 Install Area 7 Q16 Timer #1 2114 North west Full

1440 Install Area 7 Q16 Timer #2 2114 South west Full.

1442 move to SDB area

1455 Arrive set up SDB I 10 60 channel 1 2,000 out

I 9 600 channel 1 3,000 out

I 8 700 channel 1 2000 out

HP gave this → in dpm disintegrations

per 7-28-94 ~~14~~ 1500 should be in cpm???

1507 Install SDB I 8 Full; Bag 9; 482

1510 Set up SDB I 9 per 7-28-94

1516 Install SDB I ~~10~~ 9 14"; Bag 9; 483

1519 Set up SDB I 10

1525 Install SDB I 10; 10"; Bag; 480

Daily Weather Conditions: A.M. NA

P.M. NA

Recorded By [signature] QA Checked By [signature]

TASK TEAM ACTIVITY LOG SHEET — SOIL GAS

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 — TASK NO.: 34896

Date (mm/dd/yy): 7/26/94 TIME: NA PAGE 4 OF 4

Task Team Members:

J. Alvarado

G. Loder

Pg. 75

JPH 8/22/94

Narrative (include time and location):

1526 clean up

1530 Head to go re-mark Area 7 A-E/1-4

JPH 7/26/94

7/27/94 Page 1 of 1 SDB Area.

1409-1421 Accidentally pulled ~~timers~~ JPH 7/27/94 samplers from Area 3 - thought we were in SDB (#371-377).

1446 Moved to SDB. Pulled I12/378 at 1446; pulled J11/379 at 1444, Pulled J1/380 at 1440; Pulled G13/271 at 1423; Pulled H13/377 at 1448; Pulled E13/376 at 1451; Pulled F13/375 at 1452; Pulled G14/374 at 1454; Pulled F14/373 at 1456; Pulled E14/372 at 1458; and pulled D14/371 at 1459. Tubes scanned OK. Return to trailer

Data Entry. Joletta Humpert 7/27/94

Daily Weather Conditions: A.M. NA

P.M. 78°F 49% Humidity

Recorded By [signature] QA Checked By Joletta Humpert

TASK TEAM ACTIVITY LOG SHEET — SOILGAS

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 — TASK NO.: 34896

Date (mm/dd/yy): 7/27/94 TIME: NA PAGE 1 OF 4

Task Team Members:

J. Alvarado pg. 76

C. Hallex

JPH 8/22/94

Narrative (include time and location):

0700 Arrive load truck
0720 Get HP
0730 Sign burn pit
0735 wait @ Gate 5
0755 Set up Area 7 M-5 (move 5' north)
0800 Install Area 7 M-5; Bag 9; Full; # 485
0800 set up Area 7 M-6 (move 5' north)
~~0800~~ 0805 Install Area 7 M-6; Bag 9; Full; # 486
0806 Set up Area 7 M-7 (move 5' north)
0810 Install Area 7 M-7; Bag 9; Full; # 487
0811 Set up Area 7 M-8
0816 Install Area 7 M-8; Bag 9; Full; # 488
0817 Set up Area 7 M-9
0822 Install Area 7 M-9; Bag 9; Full; # 489
0824 Setup Area 7 L-5 (ROCK HARD) under asphalt
0830 Install Area 7 L-5; Bag 9; 15"; # 490
0831 Setup Area 7 L-6 (ROCK HARD) under asphalt
0836 Install Area 7 L-6; Bag 9; Full; # 491
0837 Set up Area 7 L-7 under asphalt (HARD)
0845 Install Area 7 L-7; Bag 9; 15"; ~~# 450~~ 492
7-28-94

Daily Weather Conditions: A.M. 62°F 90% Humidity Cloudy

P.M. NA

Recorded By [signature] QA Checked By Juletta Humpert

TASK TEAM ACTIVITY LOG SHEET — SOIL GAS

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 — **TASK NO.: 34896**

Date (mm/dd/yy): 7/27/94 TIME: NA PAGE 2 OF 4

Task Team Members:

J. Alvarado

C. Halley

Pg. 77

JPH 8/22/94

Narrative (include time and location):

0846 Set up Area 7 L-8; Bag 9; under asphalt (HARD)

0855 Install Area 7 L-8; Bag 9; 16"; # ~~450 451 492~~ 493 JA 7-28-94

0856 wait for construction traffic

0901 Set up Area 7 L-9 under asphalt

0906 Install Area 7 L-9; Bag 9; Full; # ~~451 452 493~~ 494 JA 7-28-94

0908 Set up Area 7 M-10 under asphalt (HARD)

0916 Install Area 7 M-10; Bag 9; 15"; # ~~452 453 494~~ 495 JA 7-28-94

0917 Set up Area 7 M-11 under concrete HARD!!! (broke through concrete)

0919 Installed Area 7 M-11; Bag 9; Full; # ~~453 454 495~~ 496 JA 7-28-94

@ M-11 ← concrete ← void unknown size ← clay

0921 clean up move out of secure area spilled water (decon water) went to fire house to get more water.

0945 set up Area 7 F-7 JPH 8/7/94 under asphalt High traffic

0952 Installed Area 7 F-7 JPH 8/7/94 Bag 9; Full; # ~~453 455 496~~ 497 JA 7-28-94

0954 Set up Area 7 G-7 under asphalt

1003 Installed Area 7 G-7 Full; Bag 21; # ~~454 456 497~~ 498 JA 7-28-94

0959 Setup Area 7 H-7

1005 Install Area 7 H-7 12"; Bag 21; # ~~455 457 498~~ 499 JA 7-28-94

1006 Setup Area 7 F-8 under asphalt

Daily Weather Conditions: A.M. NA

P.M. NA

Recorded By [signature] QA Checked By Joletta Humphrey

TASK TEAM ACTIVITY LOG SHEET — SOILGAS

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 — TASK NO.: 34896

Date (mm/dd/yy): 7/27/94 TIME: NA PAGE 3 OF 4

Task Team Members:

J. Alvarado

C. Hurley

pg. 78

JPH 8/22/94

Narrative (include time and location):

High traffic

1012 Install Area 7 F-8; Bag 21; Full; ~~456~~ ~~458~~ ~~499~~ 500 JA 7-28-94

1013 Test Setup Area 7 G-8 under asphalt

1016 Install Area 7 G-8; Bag 21; Full; # ~~458~~ ~~459~~ ~~500~~ 501 JA 7-28-94

1018 Set up Area 7 H-8 under asphalt HARD!!! Rock

1031 Install Area 7 H-8 12"; Bag 21; # ~~458~~ ~~460~~ ~~501~~ 502 JA 7-28-94

1032 out of ~~p~~ tubes load up make HP till afternoon

1045 Lay back entries, make tubes

1315 Arrive Area 7

1334 Set up Area 7 G 9 under asphalt (HARD)

1343 Install Area 7 G 9 Bag 21; 15"; # ~~461~~ ~~502~~ 503 JA 7-28-94

1344 Setup Area 7 H 10

Near electric can't move mass collapse, due to recent construction set in new asphalt alternative.

1348 Set up Area 7 H 9 under asphalt JA 7-28-94

1402 Install Area 7 H 9; 14"; ~~#462~~ JA 7-28-94; Bag 21; # ~~503~~ 504

1405 Set up Area 7 H 11 under Asphalt and Sidewalk

1412 Install Area 7 H 11; Full; Bag 21; ~~# 463~~ ~~504~~ 505 JA 7-28-94

1413 Setup Area 7 H 12 under asphalt

1419 Install ~~Set up~~ Area 7 H 12; Full; Bag 21; ~~# 464~~ ~~505~~ 506 JA 7-28-94

Daily Weather Conditions: A.M. NA

P.M. 79° F 62% Humidity

Recorded By [signature] QA Checked By Juletta Humpert

TASK TEAM ACTIVITY LOG SHEET — SOILGAS

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 — TASK NO.: 34896

Date (mm/dd/yy): 7/22/94 TIME: NA PAGE 4 OF 4

Task Team Members:

J. Alvarado

C. Hulley

Pg. 79

JPH 6/22/94

Narrative (include time and location):

1420 Set up Area 7 H 13 under asphalt High traffic cleared permit next to fire hydrant

1429 Install Area 7 H13 Full; Bag 21; ~~#465 506~~ 507 JA 7-28-94

1430 move truck

1435 Set up Area 7 H 14 under asphalt High traffic HARD

1447 Install Area 7 H 14 too hard 8"; Bag 21; ~~#467 507~~ 508 JA 7-28-94

1450 Set up Area 7 H 15 HARD, High traffic; under asphalt

1501 Install Area 7 H 15 Full; Bag 21; ~~#468 508~~ 509 JA 7-28-94

1505 Set up Area 7 G 15 traffic near by

1513 Install Area 7 G 15 Full; Bag 21; ~~#469 509~~ 510 JA 7-28-94

1516 Set up Area 7 G 14 near traffic

1518 Installed Area 7 G 14 Full; Bag 21; ~~#470 510~~ 511 JA 7-28-94

1519 Set up Area 7 G 12 near traffic

1523 Install Area 7 G 13 Full; Bag 21; ~~#471 511~~ 512 JA 7-28-94

1524 Set up Area 7 G 12 near traffic

1527 Install Area 7 G 12 collapsing; 7"; Bag 21; ~~#472 512~~ 513 JA 7-28-94

1531 Set up Area 7 ~~G~~ I 13 High traffic JA 7-28-94

1534 Install Area 7 ~~G~~ I 13 Full; Bag 21; ~~#473 513~~ 514 JA 7-28-94

1535 Set up Area 7 I 14 High traffic

1539 Install Area 7 I 14 Bag 21; ~~#474 14"~~ 14" ~~514~~ 515 JA 7-28-94

1540 clean up items for trailer water tokes

Daily Weather Conditions: A.M. NA

P.M. NA

Recorded By [signature] QA Checked By [signature]

TASK TEAM ACTIVITY LOG SHEET — SOILGAS

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 — TASK NO.: 34896

Date (mm/dd/yy): 7/28/94 TIME: NA PAGE 1 OF 2

Task Team Members:

J. Alvarado — Pg. 80

C. Hulley — QPH 8/22/94

Narrative (include time and location):

Arrive 0700 set up for day

0730 HP will not be available ~~for~~ until 0800

Make P Tubes; update log book

0740 Sign burn permit, check other permits

0800 Call to set up HP

0820 left to get HP

0845 Arrive Area 7

1002 Set up Area 7 M-12 Traffic near

1008 Install Area 7 M-12 Full; Bag 21; 516

1010 Set up Area 7 M-13 High ~~traf~~ traffic

1015 Install Area 7 M-13 Bag 21; # 517; Full

1020 ~~10 20~~ Set up Area 7 M-14 High traffic

1026 ~~Set up~~ Install Area 7 Full; Bag 21; # 518 M-14

1026 Set up Area 7 L-12 High traffic

1032 Install Area 7 L-12 Full; bag 21; # 519

1031 Set up Area 7 L-13 under asphalt High traffic

HAND ROCK !!!

1045 Install Area 7 L-13 10"; Bag 21; 520

1047 Set up Area 7 L-11 High traffic

1051 Install Area 7 L-11 Full; Bag 21; # 521

1052 HP lead to leave clean up leave for trailers

Daily Weather Conditions: A.M. NA

P.M. NA

Recorded By [signature] QA Checked By Juletta Humpert

TASK TEAM ACTIVITY LOG SHEET — **SOILGAS**

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 — **TASK NO.: 34896**

Date (mm/dd/yy): 7/28/94 TIME: NA PAGE 2 OF 3

Task Team Members:

pg. 81

J. Alvarado

C Halley

JPH 8/22/94

Narrative (include time and location):

1349 Area 7 put in concrete mix on installed road & Tubes.
1400 Area 3 put in concrete mix
1430 Area 3 staging
1446 Set up Area 7 K 15
1451 Install Area 7 K 15 Bag 21; # 522; Full
1451 Set up Area 7 J 15
1459 Install Area 7 J15 Full; Bag 21; # 523
1459 Set up Area 7 I 15 near traffic
1502 Install Area 7 I 15 Full; Bag 21; # 524
1506 Set up Area 7 K 14
1509 Install Area 7 K 14 Full; Bag 21; # 525
1511 Set up Area 7 J 14
1516 Install Area 7 J 14 12"; Bag 21; # 526
1518 Set up Area 7 K 13
1522 Install Area 7 K 13 full; Bag 21; # 527
1523 Set up Area 7 ~~K 13~~ J 13
1529 Install Area 7 J 13 full; Bag 21; # 528
1530 Set up Area 7 K 12 near traffic
1537 Install Area 7 K 12 Full; Bag 21; # 529
1537 Set up Area 7 J 12

Daily Weather Conditions: A.M. NA

P.M. NA

Recorded By [signature] QA Checked By Joletta Humpert

TASK TEAM ACTIVITY LOG SHEET — SOIL GAS

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE I — TASK NO.: 34896

Date (mm/dd/yy): 7/28/94 TIME: NA PAGE 3 OF 3

Task Team Members:

J. Alvarado Pg. 82

C. Hulley

JPH 8/22/94

Narrative (include time and location):

1541 Install Area 7 S 12; Bag 21; Full 530

1541 Set up Area 7 I 12

1543 Install Area 7 I 12; Bag 21; Full 531

1545 Clean up back to trailer

JPH 7/28/94

Daily Weather Conditions: A.M. NA

P.M. NA

Recorded By: [signature] QA Checked By: Joletta Humpert

TASK TEAM ACTIVITY LOG SHEET — SOILGAS

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 — TASK NO.: 34896

Date (mm/dd/yy): 8-1-94 TIME: NA PAGE 1 OF 4

Task Team Members:

Juan Alvarado pg. 88

Chris Hulley

~~JPH 8/22/94~~

Narrative (include time and location):

0932 Set up Area 3 G-9 in gravel parking lot (gravel)

0936 Ins full Area 3 G-9 Bag 21; Full; P # 532

0937 move to Area 3 C-14, 15

0944 Set up Area 3 C-14 near traffic under gravel next to parking lot (sand)

0947 Install Area 3 C-14 Bag 22; 10"; # 533

0948 Set up Area 3 C-15 near traffic under gravel next to parking lot (gravel & rock)

1052 Install Area 3 C-15 Bag 22; Full; # 534

1000 Installed Area 3 D14; full; bag #19; #460

1008 Installed Area 3 E14; #461

1010 Installed Area 3 F14; #462

1012 Installed Area 3 G14; #463

1013 Installed Area 3 H13; #454

1015 Installed Area 3 I12; # ~~443~~ 8/1/94 #447

1018 Installed Area 3 E13; # 457

1043 Installed Area 3 F13; # 456

1045 moved to area 7 west

1054 Set up Area 7 J 10 High traffic in loose gravel wet clay 8-1-94

1058 Install Area 7 J 10 Full; Bag 22; # 535

Daily Weather Conditions: A.M. NA

P.M. NA

Recorded By Juan J. Alvarado QA Checked By Jeletta Humpert

TASK TEAM ACTIVITY LOG SHEET — SOILGAS

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 — TASK NO.: 34896

Date (mm/dd/yy): 8-1-94 TIME: NA PAGE 2 OF 4

Task Team Members:

J.A. Pg. 89

C.H.

JPH 8/22/94

Narrative (include time and location):

1100 Setup Area 7 J 11 near traffic grassy area silt
1104 Install Area 7 J 11 Full; Bag 22; # 536
1104 Set up Area 7 I 11 High traffic loose gravel next to road
1107 Install Area 7 I 11 Full; Bag 22; # 537
1108 Set up Area 7 I 10 High traffic (Hard rock)
1115 Install Area 7 I 10 Bag 22; 12"; # 538
1120 clean up lunch
1245 Set up Area 7 L-14 under asphalt High traffic HARD!!!!
6" of asphalt
1305 Install Area 7 L-14 Bag 22; 14"; # 539
1310 Set up Area 7 L-15 under asphalt High traffic Hard
1317 Install Area 7 L-15 Bag 22; Full; # 540
1320 Set up M15 under concrete High traffic
1329 Install Area 7 ~~to~~ M 15 for 8-1-94 Bag 22; Full; # 541 11" concrete
1" of sand @ bottom
1330 began to quit crete L-14, L-15, M-15
1340 moved truck
1342 Set up Area 7 K-7 near traffic gravel weak
1346 Set up Area 7 K-6 near traffic gravel weak
1347 Install Area 7 K-7 Bag 22; Full; # 542

Daily Weather Conditions: A.M. NA

P.M. NA

Recorded By [signature] QA Checked By Joletta Humphrey

TASK TEAM ACTIVITY LOG SHEET — SOILGAS

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 — TASK NO.: 34896

Date (mm/dd/yy): 8-1-94 TIME: NA PAGE 3 OF 4

Task Team Members:

JH

CH

pg. 90

8/8/94

Narrative (include time and location):

1350 ~~Set up~~ Install Area 7 K-6 Bag 22; Full; # 543 JH 8-1-94

1351 Set up Area 7 K-5 gravel near traffic collapse

1354 Install Area 7 K-5 Bag 27; 12"; # 544

1356 Set up Area 7 J-5 High traffic muddy near drainage culvert

1400 Install Area 7 J-5 Bag 27; Full; # 545

1402 Set up Area 7 J-6 High traffic under asphalt hard to move to road; side has concrete finish does not allow debris out collapse.

1412 Install Area 7 J6 14"; Bag 27; # 546

1414 Set up Area 7 J7 under asphalt High traffic HARD

1425 Install Area 7 ~~J7~~ JH 8-1-94 J 7 Bag 27; # 547; 14"

1435 Set up Area 7 J8 under asphalt High traffic HARD!!!

~~Install Area 7 J8 Bag 27; # 548~~ JH 8-1-94

1448 Install Area 7 J8 Bag 27; # 548; 16"

1456 Set up Area 7 K9 High traffic Gravel

1502 Install Area 7 K9 Bag 27; # 549; 14"

1503 Set up Area 7 K 10 under asphalt High traffic Hard!!!

1525 Install Area 7 K 10 Bag 27; # 550; 14"

1528 Set up Area 7 K 11 under asphalt High traffic Hard!!!

1542 Install Area 7 K 11 Bag 27; # 551; Full

Daily Weather Conditions: A.M. NA

P.M. NA

Recorded By [signature] QA Checked By Joletta Humpert

TASK TEAM ACTIVITY LOG SHEET — SOILGAS

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA: PHASE 1 — TASK NO.: 34896

Date (mm/dd/yy): 8-1-94 TIME: NA PAGE 4 OF 4

Task Team Members:

JA

CH

pg. 91

JPH 8/22/94

Narrative (include time and location):

1545 set up Area 7 J9 underpavement high traffic area(!!)
1603 Install Area 7 J9 Bag 27; #552; 14"
1605 cement cap J-6; J-7; J-8; K-10; K-11; J-9
1610 clean back to trailer

Just Entry JPH 8/1/94

8/1/94
1048 Pulled F11 in SDB Area / #336
1050 Pulled I8/482 in SDB
1054 Pulled I10/484 in SDB
1105 Pulled K10/321 in SDB
1120 Pulled I9/483 in SDB.

JPH 8/1/94

Daily Weather Conditions: A.M. mostly sunny 82°F humid

P.M. mostly cloudy 89°F

Recorded By [signature] QA Checked By Joletta Humpert

TASK TEAM ACTIVITY LOG SHEET — SOILGAS

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 — TASK NO.: 34896

Date (mm/dd/yy): 8-2-94 TIME: NA PAGE 1 OF 4

Task Team Members:

Juan Alvarado — Pg. 92 — M. Cramer

Chris Hulley — J. Humpert

Narrative (include time and location):

0700 Load truck

0710 Sign burn permit

0720 Get HP

0730 wait for security guard @ post 5

0745 fill (cap) sample points Area 7 M-10, M-11, L-9

L-8, L-7, L-6, L-5

0804 Set up Area 7 L-10 avoid traffic under concrete

0810 Install Area 7 L-10 Full; Bag 22; # 553 (Bore spill between concrete and earth)

0811 Set up Area 7 K-8 avoid traffic under concrete

0815 Install Area 7 K-8 bore space between concrete on earth; Full; Bag 22; #554

0820 cement sample points (cap) L-10 and K-8

0830 move to other Area 7

0855 Set up and begin drilling A7 P16

0900 Install Area 7 P-16; Full; Bag #25; #555

0910 Install Area 7 P-17; Full; Bag #25; #556

0916 Install Area 7 P-18; Full; Bag #25; #557

0924 Install Area 7 P19, Full, Bag #25, #558

0928 Install Area 7 P20, Full, Bag #25, #559

Looks like we're drilling through concrete - white/grey powder.

Daily Weather Conditions: A.M. Overcast, 78°F, Slight breeze from NW

P.M. NA

Recorded By J Humpert QA Checked By Laura M. Morrison

TASK TEAM ACTIVITY LOG SHEET — SOIL GAS

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 — TASK NO.: 34896

Date (mm/dd/yy): 8/2/94 TIME: NA PAGE 2 OF 4

Task Team Members:

JA — Pg. 93 — M.C.

C.H. — J.H.

Narrative (include time and location):

0935 Install Area 7 P21, Full, Bag #25, #560 under grassy area

0940 Install Area 7 Q21, ~~Full~~ 14" gm 8/2/94, Bag #25, #561

0946 Install Area 7 Q20, Full, Bag #25, #562

0952 Install Area 7 Q19, Full, Bag #25, #563

0958 Install Area 7 Q18, Full, Bag #25, #564

1004 Install Area 7 Q17, Full, Bag #25, #565

1008 Install Area 7 R17, Full, Bag #~~26~~ 27, #566 gm 8/2/94

1016 Install Area 7 R16, Full, Bag #27, #567

1020 Install Area 7 R18, Full, Bag #27, #568

1026 Install Area 7 R19, Full, Bag #27, #569

White, gray powder appearing in cuttings.

1031 Install Area 7 R20, Full, Bag #27, #570

1040 Install Area 7 R21, Full, Bag #27, #571. White powder again in hole.

1045 Scanned out by HP. Loading equipment

1055 Pulled Q16 liner #1. Off to trailer

1315 Arrive Area 7

1326 set up Area 7 H-6 High traffic next to road Gravel & rock

1331 Install Area 7 H-6 Bag 27; #572; Full

1331 set up Area 7 H-5 High traffic next to road rock Hard!!!

1343 Install Area 7 H-5 Bag 27; 573; rock; Full

Daily Weather Conditions: A.M. NA

P.M. NA

Recorded By [signature] QA Checked By [signature]

TASK TEAM ACTIVITY LOG SHEET — SOILGAS

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 — TASK NO.: 34896

Date (mm/dd/yy): 8-2-94 TIME: NA PAGE 3 OF 4

Task Team Members:

JA pg. 94

CH

JPH 8/22/94

Narrative (include time and location):

1345 Set up Area 7 I-5 High traffic under asphalt HARD!

1357 Install Area 7 I-5 Bag 27; #574; 13"

1400 Set up Area 7 I-6 High traffic under asphalt HARD!!!

1414 ~~1414~~ Install Area 7 I-6 Bag 27; #575; 13"

1417 Set up Area 7 I-7 High traffic; under asphalt HARD!!!

1432 Install Area 7 I-7 Bag 27; #576; 14"

1433 Set up Area 7 I-8 High traffic; under asphalt; Hard!!!

1445 Install Area 7 I-8 Bag 27; #577; 14"

1454 Set up Area 7 I-9 High traffic; Under asphalt; Hard!!!

1515 Install Area 7 I-9 Bag 27; #578; 14"

1516 move to East Area 7

1531 Set up Area 7 N-17 under grass dirt / gravel Rock bottom

1536 Install Area 7 N-17 Bag 11; #579; Full

1537 Set up Area 7 N-18 under grass Rock bottom

1540 Install Area 7 N-18 Bag 11; #580; Full

1540 Set up Area 7 N-19 under grass Rock bottom

1544 Install Area 7 N-19 Bag 22; #581; Full

1545 Set up Area 7 N-20 under grass Rock bottom

1550 Install Area 7 N-20 Bag 27; Full; #582

1550 Set up Area 7 N-21 under grass Rock bottom

Daily Weather Conditions: A.M. NA

P.M. NA

Recorded By [signature] QA Checked By [signature]

TASK TEAM ACTIVITY LOG SHEET — SOIL GAS

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA PHASE 1 — TASK NO.: 34896

Date (mm/dd/yy): 8-2-94 TIME: NA PAGE 4 OF 4

Task Team Members:

Pg. 95

JA

CH

JPH 8/22/94

Narrative (include time and location):

1554 Install Area 7 N-21 Bay 11; Full # 583

1555 clean up back to trailer scan out

JPH 8/2/94 At 1105 Pulled Area 7 timer #1 Q16; at 1110 pulled Area 7 timer #1 D2; at 1115 pulled timer #1 G10 (Area 7).

JPH 8/2/94

Daily Weather Conditions: A.M. NA

P.M. NA

Recorded By [signature] QA Checked By Joletta Hampat

TASK TEAM ACTIVITY LOG SHEET — SOILGAS

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 — TASK NO.: 34896

Date (mm/dd/yy): 8-3-94 TIME: NA PAGE 1 OF 5

Task Team Members:

Juan Alvarado pg. 96

Chris Hulley

JPH 8/22/94

Narrative (include time and location):

0700 Arrive plant long line @ security

0741 Sign work permit - load truck - get MP

0834 Set up Area 7 O-16 undergrass just below storm water run off drain point was permitted but had to be remeasured stake gone Hard rock @ bottom

0840 Install Area 7 O-16 Full; Bag 22; P# 584

0840 Set up Area 7 N-16 under concrete

0847 Install Area 7 N-16 Full; Bag 11; #585

0847 Set up Area 7 O-17 in grass area Hard clay (on line)

0851 Install Area 7 O-17 Full; Bag 11; #586

0851 Set up Area 7 O-18 in grass area Hard rock; 6" down is a ~~hard~~ hard layer of rock about 3" thick (limestone?)

0900 Install Area 7 O-18 Full; Bag 11; #587

0901 Set up Area 7 O-19 undergrass area rock bottom

0907 Install Area 7 O-19 Full; Bag 11; #588

0907 Set up Area 7 O-20 undergrass rock @ bottom

0912 Install Area 7 O-20 Full; Bag 11; #589

Daily Weather Conditions: A.M. 70's High Humidity clear skies slight breeze

P.M. NA

Recorded By [signature] QA Checked By [signature]

TASK TEAM ACTIVITY LOG SHEET — SOILGAS

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA PHASE 1 — TASK NO. 34896

Date (mm/dd/yy): 8-3-94 TIME: NA PAGE 2 OF 5

Task Team Members:

JA

CH

Pg. 97

JPA 8/22/94

Narrative (include time and location):

0912 Set up Area 7 O-21 grassy area

0917 Install Area 7 O-21 Full; Bag 11; # 590

0918 move generator

0923 Setup Area 7 S-21 grassy area; rock bottom

0928 Install Area 7 S-21 Full; Bag 11; # 591

0929 Set up Area 7 S-20 Grass + rock area in hill side storm water drainage way (rock is riy rap)

0935 Install Area 7 S-20 Bag 11; # 592; Full

0936 Setup Area 7 S-19 grass area rock 3" down

0943 Install Area 7 S-19 Full; Bag 11; # 593

0944 Set up Area 7 S-18 near traffic in drainage ditch next to parking lot under grass clay no rock

0953 Install Area 7 S-18 Full; Bag 11; # 594

0952 Set up Area 7 S-17 under asphalt in parking lot traffic point set off 3" due to car parked over it HARD !!!

1000 Install Area 7 S-17 Bag 11; # 595; Full

1002 Set up Area 7 S-16 under asphalt high traffic HARD

Daily Weather Conditions: A.M. NA

P.M. NA

Recorded By [signature] QA Checked By [signature]

TASK TEAM ACTIVITY LOG SHEET — SOILGAS

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 — TASK NO.: 34896

Date (mm/dd/yy): 8-3-94 TIME: NA PAGE 3 OF 5

Task Team Members:

JA
CH

Pg. 98

JPH 8/22/94

Narrative (include time and location):

1013 Install Area 7 S-16 Bag 11; #596
1014 began to quit create cup S-16, S-17 and N-16
1025 move to North area 7
1034 setup Area 7 E1 High traffic gravel side ~~road~~ road JA 8-3-94
hard rock very difficult Hard rock
and collapsing
1054 Install Area 7 E-1 14"; Bag 11; #597
1055 set up Area 7 E-2 sticky clay hard rock
1101 Install Area 7 E-2 Full; Bag 11; #598
1102 clean back to trailer scan out
made totes
1350 Set up Area 7 E-3 soft rock under grass near traffic
near trash truck (solid waste)
~~1358 Install Area 7~~ JW 8-3-94 storage area
1358 Install Area 7 E-3 Full; Bag 11; #599
Setup Area 7 E-4 near wastewater pond near traffic
under grass had to move generator
1407 Install Area 7 E-4 Bag 11; #600; Full
1408 Set up Area 7 D-4 berm at wastewater pond
under asphalt

Daily Weather Conditions: A.M. NA
P.M. NA

Recorded By James A. Ulmer QA Checked By Juletta Humpert

TASK TEAM ACTIVITY LOG SHEET — SOIL GAS

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA PHASE 1 — TASK NO.: 34896

Date (mm/dd/yy): 8-3-94 TIME: NA PAGE 4 OF 5

Task Team Members:

JA Pg. 99

CH JPH 8/22/94

Narrative (include time and location):

1414 Install Area 7 D-4 Bag 11; # 601; Full

#14 Set up Area 7 D-3 in grassy area next to trash trucks

1418 Install Area 7 D-3 Bag 11; # 602; Full

1418 Setup Area 7 D-1 High traffic gravel/rock near trash trucks HARD ROCK

1428 Install Area 7 D-1 Bag 11; # ~~602~~ 603 per 8-3-94; 12"

1429 Set up Area 7 C-1 High traffic; Near trash truck Hard Rock

1438 Install Area 7 C-1 Bag 11; # ~~603~~ 604 per 8-3-94; 8"

1440 Set up Area 7-C2 between trash trucks; Gravel + Rock; near traffic

1503 Install Area 7-C2 Bag 11; # ~~604~~ 605 per 8-3-94; 8"

1505 Set up Area 7 C-3 between trash truck near traffic gravel and hard rock

1507 ~~1505~~ Install Area 7 ~~C-4~~ per 8-3-94 C-3 Full; # ~~605~~ 606 per 8-3-94; Bag 11

1508 Set up Area 7 C-4 under asphalt berm of pond sand and clay

1517 ~~1516~~ Install Area 7 C-4 Full; # ~~606~~ 607 per 8-3-94; Bag 25

1516 Set up Area 7 B-4 under asphalt berm of pond sand + clay

1524 Install Area 7 B-4 under asphalt Full; # ~~607~~ 608 per 8-3-94; Bag 25

Daily Weather Conditions: ~~A.M.~~ per 8-3-94 80'ish cloudy high Humidity (P.M.)

~~P.M.~~ per 8-3-94 5 mph breeze

Recorded By [signature] QA Checked By Joletta Humpert

TASK TEAM ACTIVITY LOG SHEET — SOILGAS

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 — TASK NO.: 34896

Date (mm/dd/yy): 8-3-94 TIME: NA PAGE 5 OF 5

Task Team Members:

JA

CH

pg. 100

JPH 8/22/94

Narrative (include time and location):

1519 set up Area 7 B-3 next to trash trucks gravel

1526 Install Area 7 B-3 12"; # ~~608~~ 609 8-3-94; Bag 25

1526 Set up Area 7 B-2 near traffic Hard Rock

1531 Install Area 7 B-2 # ~~609~~ 610 8-3-94; 8"; Bag 25

1533 set up Area 7 B-1 High traff Hard Rock

1542 Install Area 7 B-1 # ~~610~~ 611 8-3-94; 12"; Bag 25

1550 clean up scan back to trailer

JPH 8/3/94

Daily Weather Conditions: A.M. NA

P.M. NA

Recorded By [signature] QA Checked By [signature]

TASK TEAM ACTIVITY LOG SHEET — SOILGAS

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 — TASK NO.: 34896

Date (mm/dd/yy): 08/04/94 TIME: 0700 : _____ PAGE 1 OF 6

Task Team Members:

M. Cramer — Pg. 101 — H. Robinson (Mound HP)

J. Alvarado

C. Halley

Narrative (include time and location):

0700 Arrived at trailers to load equipment & plan attack of the day.

0735 J. GEISLER ARRIVED AT SAIC trailer to sign burn permit.

0800 LEFT TRAILER TO GET HP - H. ROBINSON and go to Area 7.

0807 Arrive at Area 7. SETTING UP.

0810 VERY, VERY HARD ROCK. SETTIN UP ON A7 A-1 NEXT TO LAIDLAW TRASH TRUCKS. HIGH TRAFFIC AREA.

0825 INSTALLED A7 A-1; Full; Bag #23; #612

0826 SET UP Area 7 A-2, Hard Rock, High Traffic, Also Next to LAIDLAW TRASH TRUCKS.

0834 Install Area 7 A-2; Full; BAG #23; #613

0835 SET UP AREA 7 A-3; NEXT TO TRASH TRUCKS

0838 INSTALL A-7 A-3; FULL; BAG #23; #614

0840 SET-UP Area 7 A-4 on Asphalt and underneath Hard rock just two inches (moved 3' off mark)

0846 Install Area 7 A-4; Full; Bag #23; #615

0850 WENT TO Trailers TO PICK UP QUICK-CRETE

Daily Weather Conditions: A.M. Clear, Sunny ~80° HUMID

P.M. NA

Recorded By Marsha L Cramer QA Checked By Joletta Humpert

TASK TEAM ACTIVITY LOG SHEET — **SOILGAS**

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 — **TASK NO.: 34896**

Date (mm/dd/yy): 6/4/94 TIME: NA PAGE 2 OF 6

Task Team Members:

see page 1 of 6 Pg. 102

GPH 8/22/94

Narrative (include time and location):

0905 SET UP ON Area 7 - H-10, on side of road, high traffic
0911 Install Area 7 H-10; Full; Bag#23; #616
0915 RETURNED TO A-7 A-4 to plug hole.
0930 Arrived at Area J. SET UP ON G13
After 5 inches of earth - hit limestone
0946 Install Area J G-13; Full; BAG#23; #617
0950 Timers Installed. ~~to~~ MLC 8/4/94 Sample closest to stake; Timers North of sample and North East of Sample

stake G-13, #617 • Timer#1

• Timer#2

0958 SET UP ON AREA J G-12
1003 Install Area J G-12; Full; BAG#23 #618
1003 SET UP Area J G-11
1007 Install Area J G-11; Full; BAG#23 #619
1007 SET UP AREA J G-10
1015 Install Area J G-10 ~~Full~~ MLC 8/4/94; BAG#23 #620
1015 SET UP AREA J G-9
1020 Install AJ G-9; Full; BAG#23 #621

Daily Weather Conditions: A.M. see page 1 of 6

P.M. NA

Recorded By Mark Z. Crane QA Checked By Juliette Humpert

TASK TEAM ACTIVITY LOG SHEET — **SOILGAS**

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 — **TASK NO.: 34896**

Date (mm/dd/yy): 8/4/94 TIME: NA PAGE 3 OF 6

Task Team Members:

See page 1 of 6 Pg. 103

8/22/94

Narrative (include time and location):

1021 ~~Ste~~ Set up on Area J G-8; Drilling through an ant hill; ants attacking drill bit. Moving hole over.

1030 Install A-J G-8; 7 inches, Bag #23; # ~~621~~ 622

1031 SET UP ON Area J F-7. Grassy area; Hit rock

1044 Install Area J ~~F-6~~ F-7 Bag 23; P# 623; Full

Set up

1045 SET UP ON Area J F-8 All hard clay

1051 Install Area J F-8; Bag 23; P# 624; Full

1052 SET UP ON Area J F-9, Hit Rock

1055 Install Area J F-9; Full; Bag #23; # 625

1057 SET UP ON Area J F-10; In Rock

1104 Install Area J F-10; Full; BAG # 23; # 626

1105 SET UP on Area J F-11

1111 Install Area J F11; Full; BAG # 23; # 627

1112 SET UP ON Area J F-12, Rock on top then into Gravel

1116 Install Area J F-12; Full; BAG # 23; # 628

1117 Setup on Area J F-13;

1129 Install Area J F-13; Full; BAG # 23; # 629

Daily Weather Conditions: A.M. See page 1 of 6

P.M. NA

Recorded By [signature] QA Checked By [signature]

TASK TEAM ACTIVITY LOG SHEET — SOIL GAS

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 — TASK NO.: 34896

Date (mm/dd/yy): 8/4/94 TIME: NA PAGE 4 OF 6

Task Team Members:

See page 1 of 4 pg. 104

Narrative (include time and location):

1130 FEET & HANDS SCANNED

1135 RETURNING TO SAIC TRAILER FOR LUNCH

1235 PACKING UP EQUIPMENT TO RETURN TO THE TASK.

1240 AT HP BUILDING TO GET H. ROBINSON FOR HP SUPPORT

1249 ARRIVED AT AREA J TO SCOPE OUT GOOD PLACE TO INSTALL TIMERS.

1300 ~~1200~~ H. ROBINSON ON SITE

1305 AT AREA J K4 SETTING UP TO HAND AUGER SAMPLE AND TWO TIMERS.

1314 INSTALL AREA J K-4; FULL; BAG #23; #630

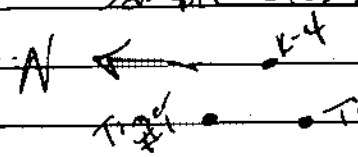
1321 INSTALL AREA J K-4 TIMER #1; 15"; JOB #21M Time Test

1330 Install Area J K-4 Timer #2; 15"; JOB #21M Time Test

Timers Installed:

Sample Closest to Stake Timer #1 is NW

Timer #2 is SW



move generator back to top of hill

1405 Set up Area J E-13 silty clay

1410 Install E-13 Area J Bag 23; Full; #631

Daily Weather Conditions: A.M. see p. 1 of 6

P.M. P. Cloudy ~80°F

Recorded By Marc Z. Cr[illegible] QA Checked By Juletta Humpert

TASK TEAM ACTIVITY LOG SHEET — SOILGAS

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 — TASK NO.: 34896

Date (mm/dd/yy): 8/4/94 TIME: NA PAGE 5 OF 6

Task Team Members:

see page 1 of 6 pg. 105

Narrative (include time and location):

1408 Set up Area J E-13 grassy area clay
1413 Set up Area J E-11 " " " and rock
1414 Install Area J E-12 Full; Bag 23; #632
1418 Install Area J E-11 ~~Bag 23~~ Bag 23; #633;
1419 Set up Area J E-10 grassy area
1425 Install Area J E-10 12"; Bag 23; #634
1426 Set up Area J E-9 gravel collapse problem
1435 Install Area J E-9 8"; Bag 25; #635
1438 Set up Area J E-8 grassy area gravel & rock
1445 Install Area J E-8 10"; Bag 23; #636
1446 Set up Area J E-7
1456 Install Area J E-7 Full; Bag #~~23~~ 25 #637
1457 Set up Area J E-6; Asphalt ~~stroking out~~ mic 8/4/94 coming out of earth near sample point
1506 Install Area J E-6; Full; BAG #25; #638
1507 Set up Area J D-6 gravel area, limestone about 10" down
1516 Install Area J D-6; Full; Bag #25; #639
1517 Set up Area J D-7 in rocky, gravel area
1525 Install Area J D-7; 10"; Bag #25; #640

Daily Weather Conditions: A.M. NA

P.M. see page 4

Recorded By [signature] QA Checked By [signature]

TASK TEAM ACTIVITY LOG SHEET — SOILGAS

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 — TASK NO.: 34896

Date (mm/dd/yy): 8/4/94 TIME: NA PAGE 6 OF 6

Task Team Members:

See page 1 of 6 Pg. 1006

JPH 8/22/94

Narrative (include time and location):

1526 Set up to Install Timers at D-7
1535 It is Raining - Install Timer #1; 8 inches
1540 Install Timer #2; full
DUE TO RAIN, WE were not able to write
Timer #1 or Timer #2; To designate:
Sample has orange flagging -
Timer #1 has blue flagging
Timer #3 has both orange & blue
D7 • Timer #2
• Timer #1
1542 RAIN HAS STOPPED SO WE DECIDE TO
CONTINUE INSTALLATION
1544 Install Area J D-8; Full; Bag #25; #641
LIGHTNING!!
PACK UP EVERYTHING AS FAST AS WE CAN
AND LEAVE SITE
1550 At HP Building to scan hands and feet.
We are informed of lightning alert.
1555 BACK AT SAIC trailers to secure for weekend.
Last Entry

Daily Weather Conditions: -A.M. NA

P.M. Raining, ~76°F; Lightning

Recorded By Marsha I Cross QA Checked By Jolletta Humpert

TASK TEAM ACTIVITY LOG SHEET — SOILGAS

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 — TASK NO.: 34896

Date (mm/dd/yy): 8/10/94 TIME: NA PAGE 4 OF 6

Task Team Members:

see page 1 of 6

pg. 121

JPH 8/22/94

Narrative (include time and location):

1132 Set up Area J H7; in grass/weeds; rocky soil
1137 Install AJ H7; Full; bag 28; # 729
1145 Scanned hands & feet; returning to trailer

* Received call on 8/9/94 from P. Bedard of NERI with results of timers #1 from Area 7. For timers #479, 480, and 481, lightweight hydrocarbons including BTEX in the moderate range were showing. Exposure time was determined to be @ 14 days.

1300 Leaving trailers for Bldg. 30
1315 At top of hill Area J to continue.
1325 Set up Area J I-7; somewhat rocky soil; in weeds
1335 Install AJ I-7; Full; bag 28; # 730
1336 Set up Area J J-7; in grass/weeds; in firm soil
1341 Install AJ J-7; Full; bag 28; # 731
~~Set up Area J G6; very steep, loose rocks; in rocky soil~~ mc 8/12/94
1348 Set up Area J J6; in rocky soil

Daily Weather Conditions: A.M. See page 6 of 6
P.M. Cloudy ~ 78°

Recorded By Mark Z Cro QA Checked By Joletta Humpert

TASK TEAM ACTIVITY LOG SHEET — SOILGAS

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 — TASK NO.: 34896

Date (mm/dd/yy): ~~8-10-94~~ 8-11-94 JPH 8/15/94 TIME: NA PAGE 1 OF 2

Task Team Members: Pg. 139

J. Humpert

G. Loder

Narrative (include time and location):

~~Ø815 Pulling in Area 3. JPH 8/15/94~~

~~Ø833 JPH 8/15/94~~

Pulling tubes in Area 7.

D2/479 timer 2 pulled at Ø9Ø8.

Ø91Ø Pulling D2/479

Ø915 Pulling Q16/481 timer 2.

Ø916 Pulling Q16/481

Ø93Ø Pulling G1Ø/48Ø timer 2

Ø932 Pulling G1Ø/48Ø

Ø952 Pulling H11/5Ø5

Ø95Ø Pulling G9/5Ø3

1ØØØ Pulling G8/5Ø1

1ØØ5 Pulling F8/5ØØ

1Ø1Ø Pulling F7/497

1Ø17 Pulling G7/498

1Ø2Ø Pulling H7/499

1Ø28 Pulling H8/502

1Ø3Ø Pulling H9/504

1Ø37 Pulling H12/506

1Ø4Ø Pulling H13/507

Daily Weather Conditions: A.M. NA

P.M. NA

Recorded By Joletta Humpert QA Checked By Laura M. Marilla 8/23/94

TASK TEAM ACTIVITY LOG SHEET — SOILGAS

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 — TASK NO.: 34896

Date (mm/dd/yy): 8-11-94 TIME: NA PAGE 2 OF 2

Task Team Members:

J.H. pg. 140

G.L.

Narrative (include time and location):

1043 Pulling H14/508
1050 Pulling H15/509
1054 Pulling G15/510
1055 Pulling G14/511
1055 Pulling G12/513
1105 Pulling G13/512
1108 Pulling I12/531
1109 Pulling I13/514
1113 Pulling I14/515
1115 Pulling I15/524
1117 Pulling J15/523
1118 Pulling K15/522
1120 Pulling J14/526
1121 Pulling J13/528
1123 Pulling K14/525
1125 Pulling K13/527
1127 Pulling K12/529
1129 Pulling J12/530
1134 Pulling L13/520
1139 Pulling M12/516
1143 Pulling M13/517
1145 Pulling M14/518
1149 Pulling L11/521
1150 Pulling L12/519

Pulling Area J timers

1336 Pulling G13/617
1338 Pulling D7/640
1348 Pulling K4/630

Last Entry

Daily Weather Conditions: A.M. P. Sunny, 75°F

P.M. P. Sunny, 78°F

Recorded By: Juliette Humpert QA Checked By: Laura M. Marila 8/23/94

TASK TEAM ACTIVITY LOG SHEET — SOILGAS

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 — TASK NO.: 34896

Date (mm/dd/yy): 8-15-94 TIME: NA PAGE 1 OF 4

Task Team Members:

J. Humpert Pg. 141

P. Parrish

Narrative (include time and location):

Call from P. Bedard. Area J timer #1 exposure results.

617 - moderate levels of toluene + other BTEX

630 - little or no results

640 - low levels of BTEX

Recommended pulling timers #2 on 12 or 13 days of exposure and sending for analysis.

Ø8ØØ Off to Area 7 to pull samplers. Met Security at gate.

Ø8Ø9	Pulling M9/489	Ø9ØØ	Pulling M8/488
Ø812	Pulling M1Ø/495	Ø913	Pulling K7/542
Ø817	Pulling M11/496	Ø914	Pulling K6/543
Ø825	Pulling L1Ø/553	Ø915	Pulling K5/544
Ø827	Pulling K8/554	Ø917	Pulling J5/545
Ø833	Pulling L5/490	Ø923	Pulling J6/546
Ø833	Pulling M6/486	Ø926	Pulling K9/549
Ø837	Pulling M7/487	Ø929	Pulling J1Ø/535
Ø839	Pulling M5/485	Ø932	Pulling J11/536
Ø847	Pulling L9/494	Ø946	Attempted to pull J10/538 - tube broke - wires unable to be retrieved.
Ø845	Pulling L8/493		

L7 and L6 unable to be retrieved.

Daily Weather Conditions: A.M. Partly Cloudy 75°F

P.M. Partly Sunny 80°F

Recorded By Joletta Humpert QA Checked By Laura M. Mosilan 8/23/94

TASK TEAM ACTIVITY LOG SHEET — SOILGAS

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 — TASK NO.: 34896

Date (mm/dd/yy): 8/15/94 TIME: NA PAGE 2 OF 4

Task Team Members:

J. Humpert pg. 142

P. Parrish

Narrative (include time and location):

0950 Pulling I11/537 0955 Pulling H10/616

1003 Pulling P16/555 and N17/579

1004 Pulling N18/580

1005 Pulling P17/556 and N19/581

1006 Pulling N20/582 and P18/557

1007 Pulling N21/583 1008 Pulling P19/558

1010 Pulling P20/559 and Q21/561

1012 Pulling P21/560 and Q20/562

1014 Pulling Q19/563 1015 Pulling R21/571

1016 Pulling Q18/564 1017 Pulling R20/570 + Q17/565

1018 Pulling R19/569 and R17/566

1021 Pulling R18/568

1023 Pulling R16/567

Move to Area 3 to pull.

1047 Pulling A3 C12/441 1045 Pulling E12/443

1048 Pulling F12/444 1051 Pulling G12/445

1052 Pulling H12/446 1054 Pulling I12/447

1056 Pulling J12/448 1058 Pulling D12/1058

1100 Pulling K12/449

1115 Break for lunch - head to trailers

Daily Weather Conditions: A.M. NA

P.M. NA

Recorded By Joletta Humpert QA Checked By Laura M. Morrison 8/23/94

TASK TEAM ACTIVITY LOG SHEET — SOILGAS

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 — TASK NO.: 34896

Date (mm/dd/yy): 8-15-94 TIME: NA PAGE 3 OF 4

Task Team Members:

J.H. pg. 143

P.P.

Narrative (include time and location):

1300 Return from lunch - log pulls into logbook. Try to contact security.

1320 Go to area 7 to continue pulling tubes.

1335 Pulling I5/574

1338 Pulling I6/575 1340 Pulling H6/572

1343 Pulling H5/573 1347 Pulling I7/576

1354 Pulling I8/577 1357 Pulling I9/578

1400 Pulling J9/552 1402 Pulling J8/548

1406 Pulling J7/547 1408 Pulling K10/550

1412 Pulling K11/551 1415 Pulling L14/539

1419 Pulling L15/540 1422 Pulling M15/541

1430 Went to security to Gate 33 to stake points in Area 3 O13-15, N14-N15, and M15. Contacted J. Geisler that these were staked - will verify locations tomorrow. Waiting for security to let P.P. back inside the gate.

1500 Begin pulling again in Area 3.

1505 Pulling M14/475 1508 Pulling N13/476

1510 Pulling M13/477 1514 Pulling L14/474

1520 Pulling K13/472 1524 Pulling J13/471

Daily Weather Conditions: A.M. NA

P.M. NA

Recorded By Joletta Humpert QA Checked By Laura M. Morrison 8/23/94

TASK TEAM ACTIVITY LOG SHEET — SOILGAS

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 — TASK NO.: 34896

Date (mm/dd/yy): 8-15-94 TIME: NA PAGE 4 OF 4

Task Team Members:

J.H. Pg. 144

P.P.

Narrative (include time and location):

1526 - Pulling I13/470 and L13/478

1532 Pulling K14/473 1543 Pulling I14/465

1535 Pulling H14/464 1544 Pulling F14/462

1547 Pulling E14/461 1549 Pulling D14/460

1600 Pulling E13/457 1601 Pulling F13/456 + D13/458

1603 Pulling H13/454 1610 Pulling G13/455.

Return to trailer. Will get tubes for area scanned all at once prior to shipping.

1645-~~1590~~ 8/15/94 - 1730 Updating logbook.

Last Entry

Daily Weather Conditions: A.M. NA

P.M. NA

Recorded By J. Humpert QA Checked By Laura M. Morrison 8/23/94

TASK TEAM ACTIVITY LOG SHEET — SOILGAS

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 — TASK NO.: 34896

Date (mm/dd/yy): 8/17/94 TIME: NA PAGE 1 OF 3

Task Team Members:

Paul Parrish
Joletta Humpert

Pg. 151

8/22/94

Narrative (include time and location):

0800 Onsite at sample trailer. Gathering equipment.
0820 Drop tubes at HP to be scanned.
0840 Gather equipment from team 1.
0843 Onsite at Area 7. Pulling remainder of tubes.
0844 Pull A2/613 0848 Pull A1/612
0852 Pull A3/614 ; Pull A4/615
0854 Pull B2/610
0856 Pull B1/611 0859 Pull B3/609 + B4/608
0902 Pull C4/607 0903 Pull C1/604
0906 Pull C3/606 0908 Pull C2/605
0910 Pull D4/601 and D3/602
0912 Pull E3/599 0916 Pull E2/598
0925 Pull D1/603 - stuck in gravel - broke tube on retrieval - wires transferred to clean tube
0939 Pull E1/597 - stuck - broke tube on retrieval - wires transferred to clean tube.
0955 Attempting to pull E4/600. Stuck under two large rocks and loose dirt. Unable to pull - "guy" wire broke when attempting retrieval. Tube left in ground - lost to rocks.

Daily Weather Conditions: A.M. Sunny 75F

P.M.

Recorded By Joletta Humpert QA Checked By Laura M. Morillon 8/23/94

TASK TEAM ACTIVITY LOG SHEET — SOILGAS

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 — TASK NO.: 34896

Date (mm/dd/yy): 8/17/94 TIME: NA PAGE 2 OF 3

Task Team Members:

J.H. pg. 152

P.P.

Narrative (include time and location):

0955 P.P. Patching soil gas holes at A4, B4, C4, D4 in Area 7

1000 JH moves to Area 7 0 lines to pull.

1007 Pull O16/584

1012 Pull O17/586 — 1014 Pull O18/587

1016 Pull O19/588 — 1018 Pull 020/589

1019 Pull O21/590 — 1021 Pull S21/591

1023 Pull ~~S20~~ S20/592 — 1025 Pull S19/593

1027 Pull S18/594 — 1032 Pull S16/596 (water in hole in parking lot).

1036 Pull S17/595 (in parking lot - water 1/4 way up in hole.

1041 Pull N16/485

Back to HP to drop off Area 7 tubes. Pick up others.

1112 Pull A15/436 in Area 3

1114 Pull A16/437 (Area 3)

1115 Pull A17/438 (Area 3)

1118 Pull A18/439 (Area 3)

1120 Pull B18/440 (Area 3)

JH 8/17/94 1126 Pull C14/533 and C15/534 (Area 3)

1129 Pull G9/532 (Area 3)

1134 Pull I9/452 (Area 3)

1142 Pull K11/450 (Area 3)

Daily Weather Conditions: A.M. NA

P.M. NA

Recorded By Joletta Humpert QA Checked By Laura M. Morillas 8/23/94

TASK TEAM ACTIVITY LOG SHEET — SOILGAS

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 — TASK NO.: 34896

Date (mm/dd/yy): 8/17/94 TIME: NA PAGE 3 OF 3

Task Team Members:

J.H pg. 153

P.P

Narrative (include time and location):

1140 Attempted to pull I11/451 - gravel road - "guy" wire broke when trying to retrieve; tube not visible. After digging, not able to find tube.

1145 Pull H9/453 - hole had collapsed but was able to retrieve wires from broken tube. Wires a little mangled but placed in clean test tube.

Drive to lower part of Area J - car almost stuck - walk to the top.

1155 Pull Area J timer 2 #630/K4. Drive around to top area.

1200 Pull Area J timer 2 D7/640

1205 Pull Area J timer 2 G13/617

Will fedex these to NERI tonight.

1210 Break for lunch. Organizing Area 7 tubes.

1230-1330 Sorting Area 7 tubes for shipment

1340 Off to pull Area 61 timer A3

1345 Patching soil gas locations in Area 7; G8 and all others in roadway.

1430 Completed patching. Go to Area 61 to pull timer #1. Pull A3/765. Return to trailer after picking up tubes from HP.

1500 Package Area 7 tubes and Area J #2 timers and Area 61 timer. Fedex to NERI. Airbill # 2169356372. Last Entry.

Daily Weather Conditions: A.M. NA

P.M. Warmer @ 85°F, Partly Sunny

Recorded By Joletta Humpert QA Checked By Laura M. Morales 8/23/94

SOIL GAS SURVEY (PETREX)

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 Pg. 241 PROJECT NO.: 34896

LOCATION GRID ID	MOUND SAMPLE NUMBER	PETREX NUMBER	DATE / TIME PLACE	DATE / TIME RETRIEVE	FIDLER READING (CPM) CH1	FIDLER READING (CPM) CH2 x (1000)	COC NUMBER	COMMENTS
SDBKØ2		267	7/11/94 14:35	7/21/94 0908	ND	ND		Full bag#13
SDBKØ3		268	7/11/94 ~~15:00~~ 14:50	7/4/94 0911				10 inches bag#12
SDBKØ4		269	7/11/94 14:57	7/21/94 0926				Full bag#13
SDBKØ5		~~270~~ 273	7/12/94 ~~15:27~~ Ø825	7/21/94 0931				12 inches bag#13
SDBKØ6		274	7/12/94 Ø848	7/21/94 0934				10 inches bag#13
SDBKØ7		275	7/12/94 Ø854	7/21/94 0936				10" Bag # 13
SDBKØ8		276	7/12/94 Ø9ØØ	7/21/94 0939				14" Bag # 13
SDBKØ9		324	7/13/94 141Ø	7/21/94 0946				Bag#20, Full
SDBK1Ø		321	7/13/94 1417	8/1/94 11Ø5				underwater.
SDBK11		325	7/13/94 1419	7/21/94 0949				18", bag#20
SDBK12		326	7/13/94 1424	7/21/94 0951				10", bag#20
SDBK13		327	7/13/94 1441	7/21/94 0954				Full, bag#20
SDBK14		33Ø	7/13/94 15Ø1	7/21/94 0957				Bag#20, 15"
SDBK4		269	7/11/94 15ØØ	7/18/94 1259				Timer #1
SDBK4		269	7/11/94 15Ø2	7/21/94 Ø928				Timer #2
			JPH 8/22/94					
7AØ1		612	8/4/94 Ø825	8/17/94 Ø848	ND	ND		Full; Bag#23
7AØ2		613	8/4/94 Ø834	8/17/94 Ø844	ND	ND		Full; Bag#23
7AØ3		614	8/4/94 Ø838	8/17/94 Ø852	ND	ND		Full; Bag#23
7AØ4		615	8/4/94 Ø846	8/17/94 Ø852	ND	ND		Full; Bag#23

SOIL GAS SURVEY (PETREX)

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 PG. 242 PROJECT NO.: 34896

LOCATION GRID ID	MOUND SAMPLE NUMBER	PETREX NUMBER	DATE / TIME		FIDLER READING (CPM)		COC NUMBER	COMMENTS
			PLACE	RETRIEVE	CH1	CH2 x (1000)		
7AØ5								
7AØ6								
7AØ7								
7AØ8								
7AØ9								
7A1Ø								
7A11								
7A12								
7A13								
7A14								
7A15								
7A16								
7A17								
7A18								
7A19								
7A2Ø								
7A21								

JPH 8/8/94

JPH 8/22/94

SOIL GAS SURVEY (PETREX)

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 PG. 243 PROJECT NO.: 34896

LOCATION GRID ID	MOUND SAMPLE NUMBER	PETREX NUMBER	DATE / TIME		FIDLER READING (CPM)		COC NUMBER	COMMENTS
			PLACE	RETRIEVE	CH1	CH2 x (1000)		
7BØ1		611	8/3/94 1547	8/17/94 Ø856	ND	ND		Bag 25 ; 12"
7BØ2		610	8/3/94 1531	8/17/94 Ø854	ND	ND		Bag 25 ; 8"
7BØ3		609	8/3/94 1526	8/17/94 Ø859	ND	ND		Bag 25 ; 12"
7BØ4		608	8/3/94 1524	8/17/94 Ø859	ND	ND		Bag 25 ; Full
7BØ5								
7BØ6								
7BØ7								
7BØ8								
7BØ9								
7B1Ø								
7B11								
7B12								
7B13								
7B14								
7B15				JPH 8/7/94				
7B16								
7B17								
7B18								
7B19								
7B2Ø								
7B21								

SOIL GAS SURVEY (PETREX)

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 PG. 244 PROJECT NO.: 34896

LOCATION GRID ID	MOUND SAMPLE NUMBER	PETREX NUMBER	DATE / TIME PLACE	DATE / TIME RETRIEVE	FIDLER READING (CPM) CH1	FIDLER READING (CPM) CH2 x (1000)	COC NUMBER	COMMENTS
			JPH 8/22/94					
7CØ1		604	8/3/94 1438	8/17/94 Ø9Ø3	ND	ND		Bag 11 ; 8"
7CØ2		605	8/3/94 1503	8/17/94 Ø9Ø8	ND	ND		Bag 11 ; 8"
7CØ3		606	8/3/94 1507	8/17/94 Ø9Ø6	ND	ND		Bag 11 ; Full
7CØ4		607	8/3/94 1517	8/17/94 Ø9Ø2	ND	ND		Bag 25 ; Full
7CØ5								
7CØ6								
7CØ7								
7CØ8								
7CØ9								
7C1Ø								
7C11				JPH 8/7/94				
7C12								
7C13								
7C14								
7C15								
7C16								
7C17								

SOIL GAS SURVEY (PETREX)

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 PG. 245 PROJECT NO.: 34896

LOCATION GRID ID	MOUND SAMPLE NUMBER	PETREX NUMBER	DATE / TIME PLACE	DATE / TIME RETRIEVE	FIDLER READING (CPM) CH1	FIDLER READING (CPM) CH2 x (1000)	COC NUMBER	COMMENTS
7C18								
7C19				JPH 8/7/94				
7C2Ø								
7C21								
				JPH 8/22/94				
7DØ1		603	8/3/94 1428	8/17/94 Ø925	ND	ND		Bag 11 ; 12"
7DØ2		479	7/26/94 1336	8/11/94 ~~ØØ68~~ Ø916 JPH 8/15/94	ND	ND		Bag 8 ; Full
7DØ3		602	8/3/94 1418	8/17/94 Ø91Ø	ND	ND		Bag 11 ; Full
7DØ4		601	8/3/94 1414	8/17/94 Ø91Ø	ND	ND		Bag 11 ; Full
7DØ5								
7DØ6								
7DØ7								
7DØ8				JPH				
7DØ9								
7D1Ø				8/7/94				
7D11								
7D12								
7D13								

SOIL GAS SURVEY (PETREX)

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 PG. 246 PROJECT NO.: 34896

LOCATION GRID ID	MOUND SAMPLE NUMBER	PETREX NUMBER	DATE / TIME PLACE	DATE / TIME RETRIEVE	FIDLER READING (CPM) CH1	FIDLER READING (CPM) CH2 x (1000)	COC NUMBER	COMMENTS
7D14								
7D15								
7D16								
7D17								
7D18				JPH 8/7/94				
7D19								
7D2Ø								
7D21								
7D02		479/Timer	7/26/94 1341	8/2/94 11ØØ	NA	NA		Bag 2114E ; Full
7D02		479/Timer	7/26/94 1345	8/11/94 Ø9Ø8	NA	NA		Bag 2114E ; Full
			JPH 8/22/94					
7EØ1		597	8/3/94 1054	8/17/94 0939	ND	ND		Bag 11 ; 14"
7EØ2		598	8/3/94 1101	8/17/94 Ø916	ND	ND		Bag 11 ; Full
7EØ3		599	8/3/94 1358	8/17/94 Ø912	ND	ND		Bag 11 ; Full
7EØ4		600	8/3/94 1407	Not able to retrieve - lost in rock 8/17/94	ND	ND		Bag 11 ; Full
7EØ5								
7EØ6				JPH 8/7/94				
7EØ7								
7EØ8								
7EØ9								

SOIL GAS SURVEY (PETREX)

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 PG- 247 PROJECT NO.: 34896

LOCATION GRID ID	MOUND SAMPLE NUMBER	PETREX NUMBER	DATE / TIME		FIDLER READING (CPM)		COC NUMBER	COMMENTS
			PLACE	RETRIEVE	CH1	CH2 x (1000)		
7E1Ø								
7E11								
7E12								
7E13								
7E14								
7E15				JPH 8/7/94				
7E16								
7E17								
7E18								
7E19								
7E2Ø								
7E21								
7FØ1								
7FØ2				JPH 8/7/94				
7FØ3								
7FØ4								
7FØ5								

SOIL GAS SURVEY (PETREX)

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 PG. 248 PROJECT NO.: 34896

LOCATION GRID ID	MOUND SAMPLE NUMBER	PETREX NUMBER	DATE / TIME PLACE	DATE / TIME RETRIEVE	FIDLER READING (CPM) CH1	FIDLER READING (CPM) CH2 x (1000)	COC NUMBER	COMMENTS
7FØ6								Building here
7FØ7		497	7/27/94 Ø952	8/11/94 1ØIØ	ND	ND		Bag 9; Full
7FØ8		500	7/27/94 1012	8/11/94 ~~50~~ 1ØØ5	ND	ND		Bag 21; Full
7FØ9				8/15/94				
7F1Ø								
7F11								
7F12								
7F13								
7F14								
7F15								
7F16								
7F17								
7F18				JPH 8/22/94				
7F19								
7F2Ø								
7F21								
7GØ1								

SOIL GAS SURVEY (PETREX)

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 PG. 249 PROJECT NO.: 34896

LOCATION GRID ID	MOUND SAMPLE NUMBER	PETREX NUMBER	DATE / TIME PLACE	DATE / TIME RETRIEVE	FIDLER READING (CPM) CH1	FIDLER READING (CPM) CH2 x (1000)	COC NUMBER	COMMENTS
7GØ2								
7GØ3				JPH 8/22/94				
7GØ4								
7GØ5								Building located
7GØ6								here
7GØ7		498	7/27/94 1003	8/11/94 1Ø17	ND	ND		Bag 21; Full
7GØ8		501	7/27/94 1016	8/11/94 1ØØØ	ND	ND		Bag 21; Full
7GØ9		503	7/27/94 1343	8/11/94 Ø95Ø	ND	ND		Bag 21; 15"
7G1Ø		480	7/26/94 1357	8/11/94 Ø932	ND	ND		Bag 8; 14"
7G11					ND	ND		Bldg here
7G12		513	7/27/94 1529	8/11/94 1Ø55	ND	ND		Bag 21; 7"
7G13		512	7/27/94 1523	8/11/94 11Ø5	ND	ND		Bag 21; Full
7G14		511	7/27/94 1518	8/11/94 1Ø55	ND	ND		Bag 21; Full
7G15		510	7/27/94 1513	8/11/94 1Ø54	ND	ND		Bag 21; Full
7G16								
7G17								
7G18			JPH 8/22/94					
7G19								
7G2Ø								
7G21								
7G1Ø		480	7/26/94 1404	8/2/94 11Ø5	ND	ND		Bag 21 Timer!; 14"

SOIL GAS SURVEY (PETREX)

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 PG. 25Ø PROJECT NO.: 34896

LOCATION GRID ID	MOUND SAMPLE NUMBER	PETREX NUMBER	DATE / TIME PLACE	DATE / TIME RETRIEVE	FIDLER READING (CPM) CH1	FIDLER READING (CPM) CH2 x (1000)	COC NUMBER	COMMENTS
7G10		480	7/26/94 1408	8/11/94 Ø93Ø	NA	NA		timer 2 Bag 21 14"
7HØ1								
7HØ2				ØH 8/22/94				
7HØ3								
7HØ4								
7HØ5		573	8/2/94 1331	8/15/94 1343	ND	ND		Bag 27 Full
7HØ6		572	8/2/94 1343	8/15/94 134Ø	ND	ND		Bag 27 Full
7HØ7		499	7/27/94 1005	8/11/94 1Ø2Ø	ND	ND		Bag 21; 12"
7HØ8		502	7/27/94 1031	8/11/94 1Ø28	ND	ND		Bag 21; 12"
7HØ9		504	7/27/94 1402	8/11/94 1Ø3Ø	ND	ND		Bag 21; Full
7H1Ø		616	8/4/94 Ø911	8/15/94 Ø955	ND	ND		Bag#23; Full
7H11		505	7/27/94 1412	8/11/94 Ø952	ND	ND		Bag 21; Full
7H12		506	7/27/94 1419	8/11/94 1Ø37	ND	ND		Bag 21; Full
7H13		507	7/27/94 1429	8/11/94 1Ø4Ø	ND	ND		Bag 21; Full
7H14		508	7/27/94 1447	8/11/94 1Ø43	ND	ND		Bag 21; 8"
7H15		509	7/27/94 1501	8/11/94 1Ø5Ø	ND	ND		Bag 21; Full
7H16								
7H17				ØH 8/22/94				
7H18								

SOIL GAS SURVEY (PETREX)

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 PG. 251 PROJECT NO.: 34896

LOCATION GRID ID	MOUND SAMPLE NUMBER	PETREX NUMBER	DATE / TIME		FIDLER READING (CPM)		COC NUMBER	COMMENTS
			PLACE	RETRIEVE	CH1	CH2 x (1000)		
7H19								
7H2Ø								
7H21								
				JPH 8/22/94				
7IØ1								
7IØ2								
7IØ3								
7IØ4								
7IØ5		524	8/2/94 ~~1345~~ 1357	8/15/94 ~~1305~~ 1335	ND	ND		Bag 23 ; 13"
7IØ6		525	8/2/94 1414	8/15/94 ~~1328~~ 1330	ND	ND		Bag 23 ; 13"
7IØ7		526	8/2/94 1432	8/15/94 1347	ND	ND		Bag 23 ; 14"
7IØ8		527	8/2/94 1445	8/15/94 1354	ND	ND		Bag 23 ; 14"
7IØ9		528	8/2/94 1515	8/15/94 1357	ND	ND		Bag 23 ; 14"
7I1Ø		538	8/1/94 1115	8/15/94 ~~0944~~	ND	ND		Wires lost in Mud. Bag 22, Full
7I11		537	8/1/94 1107	8/15/94 0950	ND	ND		Bag 22 ; Full
7I12		531	7/28/94 1543	8/11/94 1108	ND	ND		Bag 21 ; Full
7I13		514	7/27/94 1534	8/11/94 1109	ND	ND		Bag 21 ; Full
7I14		515	7/27/94 1539	8/11/94 1113	ND	ND		Bag 21 ; 14"

SOIL GAS SURVEY (PETREX)

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 PG. 252 PROJECT NO.: 34896

LOCATION GRID ID	MOUND SAMPLE NUMBER	PETREX NUMBER	DATE / TIME PLACE	DATE / TIME RETRIEVE	FIDLER READING (CPM) CH1	FIDLER READING (CPM) CH2 x (1000)	COC NUMBER	COMMENTS
7I15		524	7/28/94 1502	8/11/94 1115	ND	ND		Bag 21; Full
7I16								
7I17								
7I18								
7I19								
7I2Ø								
7I21								
7JØ1								
7JØ2								
7JØ3								
7JØ4								
7JØ5		545	8/1/94 1400	8/15/94 Ø917	ND	ND		Bag 27; Full
7JØ6		546	8/1/94 1412	8/15/94 Ø923	ND	ND		Bag 27; 14"
7JØ7		547	8/1/94 1425	8/15/94 14Ø6	ND	ND		Bag 27; 14"
7JØ8		548	8/1/94 1448	8/15/94 14Ø2	ND	ND		Bag 27; 16"
7JØ9	552	~~549~~	~~8/1/94 1502~~ 8/1/94 1203	8/15/94 14ØØ fr 8/1/94	~~ND~~ ND	~~ND~~ ND fr	8/1/94	Bag 27; 14" ~~Bag 27; 14"~~ fr 8/1/94
7J1Ø		535 ~~536~~	~~8/1/94 1058~~ 8/1/94	8/15/94 Ø929 fr 8/1/94	ND ~~ND~~	ND ~~ND~~ fr	8/1/94	Bag 22; Full ~~Bag 22; Full~~ fr 8/1/94

GPH 8/22/94

SOIL GAS SURVEY (PETREX)

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 Pg. 253 PROJECT NO.: 34896

LOCATION GRID ID	MOUND SAMPLE NUMBER	PETREX NUMBER	DATE / TIME		FIDLER READING (CPM)		COC NUMBER	COMMENTS
			PLACE	RETRIEVE	CH1	CH2 x (1000)		
7J11		536	8/1/94 1104	8/15/94 Ø932	ND	ND		Bag 22; Full
7J12		530	7/28/94 1541	8/11/94 1129	ND	ND		Bag 21; Full
7J13		528	7/28/94 1529	8/11/94 1121	ND	ND		Bag 21; Full
7J14		526	7/28/94 1516	8/11/94 1120	ND	ND		Bag 21; 12"
7J15		523	7/28/94 1459	8/11/94 1117	ND	ND		Bag 21; Full
7J16								
7J17								
7J18								
7J19								
7J2Ø								
7J21								
				PH 8/22/94				
7KØ1								
7KØ2								
7KØ3								
7KØ4								
7KØ5		544	8/1/94 1354	8/15/94 Ø915	ND	ND		Bag ~~22~~ 21; 12"
7KØ6		543	8/1/94 1350	8/15/94 Ø914	ND	ND		Bag 22; Full

SOIL GAS SURVEY (PETREX)

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 PG. 254 PROJECT NO.: 34896

LOCATION GRID ID	MOUND SAMPLE NUMBER	PETREX NUMBER	DATE / TIME PLACE	DATE / TIME RETRIEVE	FIDLER READING (CPM) CH1	FIDLER READING (CPM) CH2 x (1000)	COC NUMBER	COMMENTS
7KØ7		542	8/1/94 1347	8/15/94 Ø913	ND	ND		Bag 22; Full
7KØ8		554	8/2/94 0815	8/15/94 Ø827	ND	ND		Bag 22; Full
7KØ9		549	8/1/94 1502	8/15/94 Ø926	ND	ND		Bag 22; 14"
7K1Ø		550	8/1/94 1525	8/15/94 14Ø8	ND	ND		Bag 22; 14"
7K11		551	8/1/94 1542	8/15/94 1412	ND	ND		Bag 22; Full
7K12		529	7/28/94 1537	8/11/94 1127	ND	ND		Bag 21; Full
7K13		527	7/28/94 1522	8/11/94 1125	ND	ND		Bag 21; Full
7K14		525	7/28/94 1509	8/11/94 1123	ND	ND		Bag 21; Full
7K15		522	7/28/94 ~~1509~~ 1457	8/11/94 1118 A-7-28-94	ND	ND		Bag 4; Full
7K16								
7K17								
7K18								
7K19								
7K2Ø								
7K21								
7LØ1								
7LØ2								

GPK 8/22/94

SOIL GAS SURVEY (PETREX)

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 PG. 255 PROJECT NO.: 34896

LOCATION GRID ID	MOUND SAMPLE NUMBER	PETREX NUMBER	DATE / TIME PLACE	DATE / TIME RETRIEVE	FIDLER READING (CPM) CH1	FIDLER READING (CPM) CH2 x (1000)	COC NUMBER	COMMENTS
7LØ3			JPH 8/22/94					
7LØ4								
7LØ5		490	7/27/94 0830	8/15/94 Ø833	ND	ND		Bag 9 ; 15"
7LØ6		491	7/27/94 0835	Not able to retrieve 8/15/94	ND	ND		Bag 9 ; Full } unable to place there
7LØ7		492	7/27/94 0845	Not able to retrieve 8/15/94	ND	ND		Bag 9 ; 15" } unable to place there
7LØ8		493	7/27/94 0855	8/15/94 Ø845	ND	ND		Bag 9 ; 16"
7LØ9		494	7/27/94 0906	8/15/94 Ø847	ND	ND		Bag 9 ; Full
7L1Ø		553	8/2/94 0810	8/15/94 Ø825	ND	ND		Bag 22 ; Full
7L11		521	7/28/94 1051	8/11/94 1149	ND	ND		Bag 21 ; Full
7L12		519	7/28/94 1032	8/11/94 115Ø	ND	ND		Bag 21 ; Full
7L13		520	7/28/94 1045	8/11/94 1134	ND	ND		Bag 21 ; 10"
7L14		539	8/1/94 1305	8/15/94 1415	ND	ND		Bag 22 ; 14"
7L15		540	8/1/94 1317	8/15/94 1419	ND	ND		Bag 22 ; Full
7L16								
7L17								
7L18								
7L19								
7L2Ø			JPH 8/22/94					
7L21								

SOIL GAS SURVEY (PETREX)

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 Pg. 256 PROJECT NO.: 34896

LOCATION GRID ID	MOUND SAMPLE NUMBER	PETREX NUMBER	DATE / TIME PLACE	DATE / TIME RETRIEVE	FIDLER READING (CPM) CH1	FIDLER READING (CPM) CH2 x (1000)	COC NUMBER	COMMENTS
7MØ1								
7MØ2								
7MØ3				OPH 8/22/94				
7MØ4								
7MØ5		485	7/27/94 0800	8/15/94 Ø839	ND	ND		Bag 9 ; Full
7MØ6		486	7/27/94 0805	8/15/94 Ø833	ND	ND		Bag 9 ; Full
7MØ7		487	7/27/94 0810	8/15/94 Ø837	ND	ND		Bag 9 ; Full
7MØ8		488	7/27/94 0816	8/15/94 Ø9ØØ	ND	ND		Bag 9 ; Full
7MØ9		489	7/27/94 0822	8/15/94 Ø8Ø9	ND	ND		Bag 9 ; Full
7M1Ø		495	7/27/94 0916	8/15/94 Ø812	ND	ND		Bag 9 ; Full 15"
7M11		496	7/27/94 0919	8/15/94 Ø817	ND	ND		Bag 9 ; Full
7M12		516	7/28/94 1008	8/11/94 1139	ND	ND		Bag 21 ; Full
7M13		517	7/28/94 1015	8/11/94 1143	ND	ND		Bag 21 ; Full
7M14		518	7/28/94 1026	8/11/94 1145	ND	ND		Bag 21 ; Full
7M15		541	8/1/94 1329	8/15/94 1422	ND	ND		Bag 22 ; Full
7M16								
7M17								
7M18				OPH 8/22/94				
7M19								

SOIL GAS SURVEY (PETREX)

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 PG. 257 PROJECT NO.: 34896

LOCATION GRID ID	MOUND SAMPLE NUMBER	PETREX NUMBER	DATE / TIME		FIDLER READING (CPM)		COC NUMBER	COMMENTS
			PLACE	RETRIEVE	CH1	CH2 x (1000)		
7M2Ø								
7M21								
7NØ1								
7NØ2								
7NØ3								
7NØ4								
7NØ5			JPH	8/22/94				
7NØ6								
7NØ7								
7NØ8								
7NØ9								
7N1Ø								
7N11								
7N12								
7N13								
7N14								
7N15								

SOIL GAS SURVEY (PETREX)

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 pg 258 PROJECT NO.: 34896

LOCATION GRID ID	MOUND SAMPLE NUMBER	PETREX NUMBER	DATE / TIME PLACE	DATE / TIME RETRIEVE	FIDLER READING (CPM) CH1	FIDLER READING (CPM) CH2 x (1000)	COC NUMBER	COMMENTS
7N16		585	8/2/94 0847	8/17/94 1041	ND	ND		Bag 11; 586
7N17		579	8/2/94 1536	8/15/94 1003	ND	ND		Bag 11; Full
7N18		580	8/2/94 1540	8/15/94 1004	ND	ND		Bag 11; Full
7N19		581	8/2/94 1544	8/15/94 1005	ND	ND		Bag 22; Full
7N20		582	8/2/94 1550	8/15/94 1006	ND	ND		Bag 22; Full
7N21		583	8/2/94 1554	8/15/94 1007	ND	ND		Bag 11; Full
				QPH 8/22/94				
61A01		767	8/11/94 1448	9/1/94 0946	ND	ND		full; bag 29
61A02		766	8/11/94 1443	9/1/94 0944	ND	ND		full; bag 29
61A03		765	8/11/94 1436	9/1/94 0943	ND	ND		full; bag 29
61A04		764	8/11/94 1430	9/1/94 0940	ND	ND		full; bag 29
61A05		763	8/11/94 1424	9/1/94 0937	ND	ND		full; bag 29
61A03		765	8/4/94 1508		ND	ND		full; time #1
61A03		765	8/4/94 1513	8/24/94 1050	ND	ND		full; time #2
				QPH 8/22/94				
61B01		768	8/11/94 1519	9/1/94 0948	ND	ND		full; bag 29
61B02		769	8/11/94 1525	9/1/94 0950	ND	ND		full; bag 29

SOIL GAS SURVEY (PETREX)

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 pg. 260 PROJECT NO.: 34896

LOCATION GRID ID	MOUND SAMPLE NUMBER	PETREX NUMBER	DATE / TIME PLACE	DATE / TIME RETRIEVE	FIDLER READING (CPM) CH1	FIDLER READING (CPM) CH2 x (1000)	COC NUMBER	COMMENTS
				JPH 8/22/94				
61EØ1		774	8/15/94 0900	9/6/94 1044	ND	ND		bag 31' full
61EØ2		773	8/15/94 0853	9/6/94 1042	ND	ND		bag 31' full
61EØ3		772	8/15/94 0843	9/6/94 1037	ND	ND		bag 31' full
61EØ4		771	8/15/94 0823	9/6/94 ~~1037~~ 1035 JPH 9/6/94	ND	ND		bag 31' full
61EØ5		770	8/15/94 0834	9/6/94 1034	ND	ND		bag 31' full
				JPH 8/22/94				
7Q16		481	7/26/94 1425	8/11/94 0916	ND	ND		Bag #9, Full

SOIL GAS SURVEY (PETREX)

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 Pg 261 PROJECT NO.: 34896

LOCATION GRID ID	MOUND SAMPLE NUMBER	PETREX NUMBER	DATE / TIME PLACE	DATE / TIME RETRIEVE	FIDLER READING (CPM) CH1	FIDLER READING (CPM) CH2 x (1000)	COC NUMBER	COMMENTS
7Q16		481	7/26/94 1431	8/2/94 1055	ND	ND		Bag 2414; Full Timer #1
7Q16		481	7/26/94 1430	8/11/94 0915	ND	ND		Bag 2414; Full Timer #2
7P16		555	8/2/94 0900	8/15/94 1003	ND	ND		Bag #25; Full
7P17		556	8/2/94 0910	8/15/94 1005	ND	ND		Bag #25; Full
7P18		557	8/2/94 0916	8/15/94 1006	ND	ND		Bag #25; Full
7P19		558	8/2/94 0924	8/15/94 1008	ND	ND		Bag #25, Full
7P20		559	8/2/94 0928	8/15/94 1010	ND	ND		Bag #25, Full
7P21		560	8/2/94 0935	8/15/94 1012	ND	ND		Bag #25, Full
7Q21		561	8/2/94 0940	8/15/94 1010	ND	ND		Bag #25, Full 14"
7Q20		562	8/2/94 0946	8/15/94 1012	ND	ND		Bag #25, Full
7Q19		563	8/2/94 0952	8/15/94 1014	ND	ND		Bag #25, Full
7Q18		564	8/2/94 0958	8/15/94 1016	ND	ND		Bag #25, Full
7Q17		565	8/2/94 1004	8/15/94 1017	ND	ND		Bag #25, Full
7R17		566	8/2/94 1008	8/15/94 1020	ND	ND		Bag #26, Full
7R16		567	8/2/94 1016	8/15/94 1023	ND	ND		Bag #27, Full
7R18		568	8/2/94 1020	8/15/94 1021	ND	ND		Bag #27, Full
7R19		569	8/2/94 1026	8/15/94 1020	ND	ND		Bag #27, Full
7R20		570	8/2/94 1031	8/15/94 1017	ND	ND		Bag #27, Full
7R21		571	8/2/94 1040	8/15/94 1015	ND	ND		Bag #27, Full
7O16		584	8/3/94 0870	8/17/94 1007	ND	ND		Bag #22; Full
7O17		586	8/3/94 0857	8/17/94 1012	ND	ND		Bag #11; Full

SOIL GAS SURVEY (PETREX)

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 pg 262 PROJECT NO.: 34896

LOCATION GRID ID	MOUND SAMPLE NUMBER	PETREX NUMBER	DATE / TIME PLACE	DATE / TIME RETRIEVE	FIDLER READING (CPM) CH1	FIDLER READING (CPM) CH2 x (1000)	COC NUMBER	COMMENTS
7018		587	8/3/94 0900	8/17/94 1014	ND	ND		Bag 11 ; Full
7019		588	8/3/94 0907	8/17/94 1016	ND	ND		Bag 11 ; Full
7020		589	8/3/94 0912	8/17/94 1018	ND	ND		Bag 11 ; Full
7021		590	8/3/94 0917	8/17/94 1019	ND	ND		Bag 11 ; Full
7516		596	8/3/94 1014	8/17/94 1032	ND	ND		Bag 11 , Full
7517		595	8/3/94 1000	8/17/94 1036	ND	ND		Bag 11 , Full
7518		594	8/3/94 0953	8/17/94 1027	ND	ND		Bag 11 , Full
7519		593	8/3/94 0943	8/17/94 1025	ND	ND		Bag 11 , Full
7520		592	8/3/94 0935	8/17/94 1023	ND	ND		Bag 11 , Full
7521		591	8/3/94 0928	8/17/94 1021	ND	ND		Bag 11 , Full

JPH 8/22/94

A.4 SOIL BORING LOGBOOKS
(SOIL BORINGS B01-B16)

EG & G MOUND
OUS OPS AREA
PHASE I

A7 SOIL BORING
LOGBOOK

B1 - B3

SOIL BORING LOG BOOK

BØ1 BØ2 BØ3

PROJECT TITLE: EG&G MOUND OU5 OPERATIONAL AREA
PHASE 1 RI/FS FIELD INVESTIGATIONS

WORK SITE: *MOUND PLANT*
Miamisburg, Ohio
OU5 Operational Area

ACTIVITY: *Mound OU5 Operational Area Phase 1 RI/FS*
Field Investigations

CONTRACT #: *BOA 52264*
TASK ORDER: *34896*

PROJECT MANAGER: *Thomas Tank*
COMPANY NAME / ADDRESS: *Science Applications International Corporation*
4031 Colonel Glenn Hwy ,Dayton, Ohio 45431
TELEPHONE NUMBERS: *(513) 429-2699*

SUPERVISORS: *OU5 Manager: Alan Spesard (513)865-3859*
SAIC Proj. Manager: Thomas Tank (513)429-2699

EMERGENCY RESPONCE: *Police / Ambulance / Fire 911 or 865-4040*

PROCEDURES: *SOP 1.1, SOP 2.2, SOP 3.1, SOP 5.1, SOP 6.1, SOP 6.3*

START DATE: 6/20/94
END DATE: 6/28/94

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B01 B02 B03

SOIL BORING I

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1

PROJECT NO: 34896

PAGE	FIELD LOG	PAGE	FIELD LOG
1	TASK TEAM ACTIV SHEET, B01, 6/20/94	31	BOREHOLE ABANDONMENT B01
2	" ; " ; "	32	BLANK PAGE
3	" ; " ; 6/21/94	33	KEY SHEET
4	NO ENTRY	34	BLANK PAGE
5		35	"
6		36	SAMPLE LOG SHEET B01001
7		37	" "
8		38	" ; B01002
9		39	" ; "
10		40	" ; B01003
11	BOREHOLE LOG B01	41	" ; "
12		42	" ; B01004
13		43	" ; "
14	NO ENTRY	44	" ; B01005
15		45	" ; "
16		46	" ; B01006
17		47	" ; "
18		48	" ; B01007
19		49	" ; "
20		50	NO ENTRY
21		51	
22		52	
23		53	
24		54	
25		55	
26		56	
27	CGI MONITOR DATA B01	57	
28	NO ENTRY	58	
29	FID FIELD DATA B01	59	
30	NO ENTRY	60	

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B01 B02 B03 II
PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 PROJECT NO: 34

PAGE	FIELD LOG	PAGE	FIELD LOG
61	NO ENTRY	91	NO ENTRY
62		92	
63		93	
64		94	
65		95	
66	SAMPLE LOG SHEET B01021	96	
67	" ; "	97	
68	" ; B01022	98	
69	" ; "	99	
70	" ; B01023	100	
71	" ; "	101	
72	NO ENTRY	102	
73		103	
74		104	
75		105	
76		106	
77		107	
78		108	
79		109	TASK TEAM ACTIV. LOG; B02; 6/21/94
80		110	" " "
81		111	NO ENTRY
82		112	
83		113	
84		114	
85		115	
86		116	
87		117	
88		118	
89		119	BOREHOLE LOG; B02
90		120	NO ENTRY

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B01 B02 B03

SOIL BORING III

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1

PROJECT NO: 34896

PAGE	FIELD LOG	PAGE	FIELD LOG
121	NO ENTRY	151	NO ENTRY
122		152	
123		153	
124		154	
125		155	
126		156	
127		157	
128		158	
129		159	
130		160	
131		161	
132		162	
133		163	
134		164	
135	CGI MONITOR DATA; B02	165	
136	NO ENTRY	166	
137	FID FIELD DATA; B02	167	
138	NO ENTRY	168	
139	BOREHOLE ABANDONMENT; B02	169	
140	NO ENTRY	170	
141	KEY SHEET	171	
142	NO ENTRY	172	
143	NO ENTRY	173	
144	SAMPLE LOG SHEET; B02 001	174	
145	" ; "	175	
146	" ; B02002	176	
147	" ; "	177	
148	NO ENTRY	178	
149		179	
150		180	

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B01 B02 B03

SOIL BORIN
IV.

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1

PROJECT N[illegible]48

PAGE	FIELD LOG	PAGE	FIELD LOG
181	NO ENTRY	211	NO ENTRY
182		212	
183		213	
184		214	
185		215	TASK TEAM ACTIV. SHEET; B03; 6-23-94
186		216	" ; " ; "
187		217	" ; " ; 6-27-9[illegible]
188		218	NO ENTRY ~~"~~ ; ~~"~~ ; ~~JMD~~ 7-11-[illegible]
189		219	NO ENTRY ~~"~~ ; ~~"~~ ; ~~"~~ ~~JMD~~ 7-[illegible]
190		220	TASK TEAM ACTIV. SHEET; B03; 6-27-94
191		221	" ; " ; "
192		222	" ; " ; 6-28-94
193		223	NO ENTRY
194		224	
195		225	BOREHOLE LOG; B03
196		226	
197		227	
198		228	
199		229	NO ENTRY
200		230	
201		231	
202		232	
203		233	
204		234	
205		235	
206		236	
207		237	
208		238	
209		239	
210		240	

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B01 B02 B03

SOIL BORING

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1

PROJECT NO: 34896

PAGE	FIELD LOG	PAGE	FIELD LOG
241	CGI MONITOR DATA; B03	271	NO ENTRY
242	"	272	
243	FID FIELD DATA; B03	273	
244	"	274	
245	BOREHOLE ABANDON; B03	275	
246	NO ENTRY	276	
247	KEY SHEET	277	
248	NO ENTRY	278	
249	"	279	
250	SAMPLE LOG SHEET; B03001	280	
251	" ; "	281	
252	" ; B03002	282	
253	" ; "	283	
254	" ; B03003	284	
255	" ; "	285	
256	" ; B03004	286	
257	" ; "	287	
258	" ; B03005	288	
259	" ; "	289	
260	" ; B03006	290	SAMPLE LOG SHEET; W03001
261	" ; "	291	" ; "
262	" ; B03007	292	NO ENTRY
263	" ; "	293	
264	NO ENTRY	294	
265		295	
266		296	
267		297	
268		298	
269		299	
270		300	

TABLE OF CONTENTS B01 B02 B03 SOIL BORING VI

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 PROJECT NO [redacted]89

PAGE	FIELD LOG	PAGE	FIELD LOG
301	NO ENTRY	331	
302		332	
303		333	
304		334	
305		335	
306		336	
307		337	
308		338	
309		339	
310		340	
311		341	
312		342	
313	GROUNDWATER QUAL. SPLG. RECORD; B03	343	
314	NO ENTRY	344	
315	GROUNDWATER QUAL. SPLG. RECORD; B03	345	
316	NO ENTRY	346	
317	ALKALINITY RECORD; W03001	347	
318	NO ENTRY	348	
319	STANDARD ELECT. CONDUCT. DATA	349	NA
320	NO ENTRY	350	
321		351	
322		352	
323		353	
324		354	
325	LAST PAGE IN BOOK	355	
326		356	
327		357	
328	NA	358	
329		359	
330		360	

B01
SOIL BORING
P.1

TASK TEAM ACTIVITY LOG SHEET

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 — TASK NO.: 34896

Date (mm/dd/yy): 6/20/94 TIME: 0830 PAGE 1 OF 2

Task Team Members:

GREG LODER (SAIC) — DENNIS (BM)
JEFF DEVAUGHN (SAIC) — DWIGHT (BM)

Narrative (include time and location):

0830 BEGIN SETTING UP ON B01 KEITH, HENRY ON-SITE
0930 JOYCE ARRIVES WITH DIGGING PERMIT
0940 CINDY (MOUND H&S) ON SITE REQUESTING COPY OF OUR H&S PLAN, SENT HER TO TRAILER TO MEET JOHN TO REVIEW PLAN
0945 BEGIN DRILLING HENRY GETS HIS SURFACE SAMPLES
0950 TAKE SAMPLE B01001 USING SPOON AND BOWL SCRAPPING STRAIGHT FROM HOLE. OVA=0 PPM, LEL=0
1003 KEITH RETURNS WITH PHOTOGRAPHER AND TAKES PICTURES
1012 TAKE B01002 OVA = 0 PPM, LEL = 0
1018 SECOND SPOON ON B01002 REVEALS HORIZON CHANGE
1028 PUSH SHELBY TUBE
1055 RECOVERED 8" IN TUBE SHOVELED SOME CUTTINGS INTO BUCKET FROM DESIRED DEPTH 7-9'.
1045 TAKE B01003 OVA=0 PPM, LEL=0
1050 TAKE SECOND SPOON FOR B01003
1052 JOLETTA PICKS UP B01001 AND B01002
1109 TAKE B01004 OVA = 0 PPM LEL=0
1122 SECOND SPOON FOR B01004

Daily Weather Conditions: A.M. SUNNY HOT 85°F HIGH HUMIDITY
P.M. NA

Recorded By [signature] QA Checked By [signature] 7/1/94

B01

TASK TEAM ACTIVITY LOG SHEET — SOIL BORING: P2

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA - PHASE 1 — TASK NO.: 34896

Date (mm/dd/yy): 6/20/94 TIME: NA PAGE 2 OF 2

Task Team Members:

GREG LODER (SAIC) — DENNIS (BM)

JEFF DEVAUGHN (SAIC) — DWIGHT (BM)

Narrative (include time and location):

1130 BREAK FOR LUNCH

1230 BACK FROM LUNCH KEITH & HENRY ON SITE

1245 DRIVE SHELBY TUBE 17-19'

1259 TUBE RECOVERY 0.6', SHOVELED CUTTINGS INTO BUCKET

1325 TAKE B01005 OVA = 0.8 PPM, LEL = 0

1330 DRIVE SHELBY TUBE 22-24

1343 TUBE RECOVERY 1.0'

1425 TAKE B01006 OVA = 0 PPM, LEL = 0

1436 TAKE 5 MINUTE SAFETY BREAK

1448 SECOND SPOON FOR B01006 IS EMPTY

1508 THIRD SPOON FOR B01006

1514 TAKE B01007 OVA = 0 PPM, LEL = 0

1515 MOUND LIGHTNING ALERT GIVEN. TOLD DRILLERS TO PUT MAST DOWN AND SHUT IT DOWN FOR THE DAY

1530 ONLY PARTIAL SAMPLED FOR B01007, WE WILL HOLD JARS IN REFRIGERATION AND COMPLETE THE SAMPLE TOMORROW

1536 ALL PERSONNEL LEAVE SITE, SECURE AREA

Daily Weather Conditions: A.M. NA

P.M. 95°F VERY, HUMID, SUNNY

Recorded By [signature] QA Checked By [signature] 7/6/94

B01
TASK TEAM ACTIVITY LOG SHEET — SOIL BORING
P.3
PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 — TASK NO.: 34896

Date (mm/dd/yy): 6/21/94 TIME: 08:00 PAGE 1 OF 1

Task Team Members:

GREG LODER (SAIC) — DWIGHT (BM)
JEFF DEVAUGHN (SAIC) — DENNIS (BM)

Narrative (include time and location):

0800 SAFETY BRIEFING FOR ALL PERSONNEL AT TRAILER
0830 ARRIVE ON SITE. HENRY ON SITE
0835 TAKE SECOND SPOON FOR B01007. WE HAD TO STOP BEFORE COMPLETION OF SAMPLE ON 6/20/94 DUE TO LIGHTNING ALERT.
0840 OVA READS 18 PPM DOWN HOLE, 0 PPM BREATHING ZONE (BZ) LEL=0
0845 OVA READS 8 PPM " " " " " , LEL = 0, O_2 = 21%. JOHN IS BRINGING DOWN DRAEGER TUBES
0910 OVA = 5 PPM DOWN HOLE, 0 PPM BZ.
0930 DRAEGER TUBES FOR VINYL CHLORIDE AND BENZENE SHOW NO REACTION. OVA NOW DOWN TO 0.8 PPM. ~~RESTART~~ @ 9:45/94
0945 DRILLING RESUMED
1005 PULL SPOON FOR NEXT SAMPLE BUT WE HIT BEDROCK AT 35.5'. OVA = 0 PPM, LEL = 0
1019 BEGIN GROUTING BOREHOLE. AIR MONITOR READINGS: TWA = 1.38, SA = NR
1030 LEAVE SITE DRILLERS STILL GROUTING

LAST ENTRY ——

Daily Weather Conditions: A.M. 80°F HUMID SUNNY
P.M. NA

Recorded By [signature] QA Checked By [signature] 7/6/94

BOREHOLE LOG (SOIL) — SOIL BORING P11

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 — PROJECT NO: 34896

FACILITY CODE: MND21
LOCATION ID: B01
COORDINATES (FT):
NORTH NA EAST NA
GROUND ELEVATION (FT MSL) NA
LOCATION TYPE: BH
COMMENTS: NONE

DRILLER CODE: BOWS
COMPLETION DATE 6/21/1994
DIAMETER (IN): 8"
DEPTH (FTFD): 35.5
CONSTRUCTION METHOD: B
ACCEPTANCE CODE: A

GROUNDWATER LEVELS

DATE	TIME	DEPTH (FT)
NONE ENCOUNTERED		

LOCATION DESCRIPTION

MIDWAY BETWEEN STORMWATER POND AND PERIMETER ROAD ON NORTH SIDE IN AREA 7

LITHOLOGIC LOG

LOGGER CODE: SAIC

DEPTH (FT)	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE RETAINED	SAMPLE METHOD	SAMPLE ID	BLOW COUNT (PER 6 IN)	N VALUE	USCS	VISUAL DESCRIPTIONS
0	0-2	NA	NA	O	B01001	NA	NA	GM	SILT AND COBBLES TRACE MEDIUM SAND, DRY, FRIABLE 10YR 3/1 VERY DARK GREY TAKEN W/ SPOON & BOWL
5	5-7	0.8	0.8	U	B01002	36/17/22/32	54	GM	SILT AND GRAVEL TRACE MEDIUM SAND, DRY, FRIABLE 10YR 3/1
	SECOND SPOON	0.9	0.9	U	NA	NR	NA	CH	SILT, SOME CLAY, SOME GRAVEL, FIRM, MOIST 5Y 4/1 DARK GREY
7	7-9	0.5	0.5	T	~~B01021~~ B01021		NR	NA	

GD 6/20/94

ACCEPTANCE CODES: A - ACCEPTABLE, R - RECONNAISSANCE, U - UNACCEPTABLE, N - NOT DETERMINED

CONSTRUCTION METHODS:
A - AIR ROTARY
B - BORED OR AUGERED
C - CABLE - TOOL
D - DUG
H - HYDRAULIC - ROTORY
J - JETTED
P - AIR - PERCUSSION
R - REVERSE ROTERY
T - TRENCHING
V - DRIVEN
W - DRIVE AND WASH
Z - OTHER (SPECIFY)

SAMPLE METHODS:
A - AUGER CUTTINGS
S - 2" O.D. 1.38" I.D. DRIVE SAMPLES
U - 3" O.D. 2.42" I.D. TUBE SAMPLES
T - 3" O.D. THIN-WALLED SHELBY TUBE
O - OTHER (SPECIFY)

COMPLETE BOLDED DATA FOR ENTRY INTO TIMS

6/20/94 — FORM COMPLETED BY / DATE

7/6/94 — TECHNICAL REVIEWER / DATE

Q 1.62

BOREHOLE LOG (SOIL) SOIL BO

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 P12 PROJECT NO: 3

FACILITY CODE: MND21 DRILLER CODE: BOWS

LOCATION ID: B01 COMPLETION DATE 6 /21 /1994

LITHOLOGIC LOG

DEPTH (FT)	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE RETAINED	SAMPLE METHOD	SAMPLE ID	BLOW COUNT (PER 6 IN)	N VALUE	USCS	VISUAL DESCRIPTIONS
10	10-12	1.3	1.2	U	B01083	10/14/15/15	30	CH	CLAY, TRACE GRAVEL TRACE
									COBBLES FIRM MOIST PLASTIC
									10 YR 3/3 DARK BROWN
	SECOND SPOON	1.0	1.0	U	NA	NA	NA	CL	CLAY AND SAND TRACE
									GRAVEL MOIST PLASTIC FIRM
									10 YR 3/3
15	15-17	1.0	1.0	U	B01084	7/14/15/19	34	CL	CLAY, TRACE FINE SAND,
	SECOND SPOON	0.8	0.8						MOIST SOFT PLASTIC
									10 YR 4/1 DARK GREY
17	17-19	0.5	0.5	T	~~B01085~~ 93 6/24/94	B01022			
20	20-22	1.2	1.2	U	B01085	40/66/40/31	71	CH	CLAY TRACE COARSE SAND
	SECOND SPOON	1.5	1.5	U					DAMP SOFT PLASTIC
									10 YR 4/1
									SOME LEFTOVER SOIL ADDED TO
									GEOPHYSICAL SAMPLE BUCKET
22	22-24	1.0	1.0	T	~~B01087~~ 80 6/24/94	B01023			
25	25-27	2.0	2.0	U	B01086	15/38/100/5	138	CH	CLAY TRACE COARSE SAND
	SECOND SPOON	1.3	1.3	U					TRACE GRAVEL DAMP FIRM
									PLASTIC 10 YR 4/1
									LEFTOVER SAMPLE ADDED TO
									GEOPHYSICAL SAMPLE BUCKET

COMPLETE BOLDED DATA FOR ENTRY INTO TIMS

6/20/94 FORM COMPLETED BY / DATE

3/6/94 TECHNICAL REVIEWER / DATE

BOREHOLE LOG (SOIL)

SOIL BORING P13

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 PROJECT NO: 34896

FACILITY CODE: MND21 DRILLER CODE: BOWS

LOCATION ID: B01 COMPLETION DATE 6/21/1994

LITHOLOGIC LOG

DEPTH (FT)	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE RETAINED	SAMPLE METHOD	SAMPLE ID	BLOW COUNT (PER 6 IN)	N VALUE	USCS	VISUAL DESCRIPTIONS
30	30-32	1.0	1.0	U	B01 0037	22/30/45/44	89	CH	CLAY TRACE COARSE SAND
	SECOND SPOON	0.5	0.5	U					TRACE GRAVEL DAMP FIRM
	THIRD SPOON	0.5	0.5	U					PLASTIC 10YR 4/1
35	35-37	0	0	U	NA	35/100/2	135	NA	NA
									LIMESTONE FRAGMENTS
35.5									BEDROCK - WEATHERED SHALE
									NO GROUNDWATER ENCOUNTERED
					LAST ENTRY				

COMPLETE BOLDED DATA FOR ENTRY INTO TIMS

6/21/94 FORM COMPLETED BY / DATE

7/6/94 TECHNICAL REVIEWER /

COMBUSTIBLE GAS INDICATOR (CGI) MONITORING DATA — SOIL BORING P27

PROJECT NAME: EG&G MOUND OU5, OPERATIONAL AREA, PHASE 1 — PROJECT NO: 34896

FACILITY CODE: MND21 — LOG DATE: 6/20/94, 6/21/94

LOGGER CODE: SAIC — FIELD REP: G. LODER

CGI MANUFACTURER: INDUSTRIAL SCIENTIFIC — CGI MODEL NO.: MX251

SERIAL NO.: 7470 — CALIBRATION DATE/TIME: 6/20/94 & 6/21/94

ACCEPTANCE CODE: A — BATTERY CONDITION: GOOD

CALIBRATION GAS (%LEL) TYPE: 50% PENTANE CONCENTRATION: 50 % LEL CYLINDER SERIAL NO: 39731

CALIBRATION GAS (PPM) TYPE: NA CONCENTRATION: NA PPM CYLINDER SERIAL NO: NA

COMMENTS: NONE

LOCATION ID OR DESCRIPTION	COORDINATES FT NORTH	COORDINATES FT EAST	MONITORING TIME (HH:MM)	LOCATION TYPE	% LOWER EXPLOSIVE LIMIT	PPM	% OXYGEN
B01 6/20/94	NA	NA	0950	BH	Ø		21
B01 "			1012	BH	Ø		21
B01 "			1045	BH	Ø		21
B01 "			1109	BH	Ø		21
B01 "			1325	BH	Ø		21
B01 "			1425	BH	Ø		21
B01 "			1514	BH	Ø		21
B01 6/21/94			0840	BH	Ø		21
B01 "			0845	BH	Ø		21
B01 "			1005	BH	Ø		21
			LAST ENTRY				

ACCEPTANCE CODES: A - ACCEPTABLE, R - RECONNAISSANCE, U - UNACCEPTABLE, N - NOT DETERMINED

LOCATION TYPES: BH - BOREHOLE SL - SURFACE LOCATION TP - TEST PIT WL - WELL

COMPLETE BOLDED DATA FOR ENTRY INTO TIMS

FORM COMPLETED BY / DATE: 6/21/94

TECHNICAL REVIEWER / DATE: 7/6/94

FLAME IONIZATION DETECTOR FIELD DATA — SOIL BORING P29

PROJECT NAME: EG&G MOUND OU5 OPERAIONAL AREA, PHASE 1 — PROJECT NO: 34896

FACILITY CODE: MND21 — LOG DATE: 6/20/94, 6/21/94

LOCATION ID: B01 — LOCATION TYPE: BH

LOGGER CODE: SAIC — FIELD REP: G. LODER

FLAME IONIZATION DETECTOR INSTRUMENT:

MANUFACTURER: FOXBORO — MODEL NO.: OVA 128

SERIAL NO.: 3154

DATE/TIME CALIBRATION 6/20/94, 6/21/94 — ACCEPTANCE CODE: A

CALIBRATION GASES			
	TYPE/CYLINDER ID NO.		CONCENTRATION (PPM)
1	LOT 39562	1	100
2	NA	2	NA

COMMENTS: NONE

TIME (HH:MM)	SAMPLE ID	OBSERVED READING (ppm) DH	HS	BZ	D	OT	DRILLING DEPTH (ft)	COMMENTS
6/20/94 0950	B01001	0	NA	NR	NR	NA	2	NONE
" 1012	B01002	0					5	
" 1045	B01003	0					10	
" 1109	B01004	0					15	
" 1325	B01005	0.8					20	
" 1425	B01006	0					25	
" 1514	B01007	0					30	
6/21/94 0840	B01007	18.0		0			30	POSSIBLY DUE TO RAIN EVENT
" 0845		8.0		0				NONE
" 0910		5.0		0				
" 0930		0.8		0				
" 1005	NA	0		NR	NR	NR	35	

ACCEPTANCE CODES: A - ACCEPTABLE, R - RECONNAISSANCE, U - UNACCEPTABLE, N - NOT DETERMINED

LOCATION TYPES:
BH - BOREHOLES
TP - TEST PIT
SS - SOIL SAMPLE
SB - SAMPLE BOTTLE
L - SURFACE LOCATION
WL - WELL
OT - OTHER (EXPLAIN)

OBSERVED READING:
DH - DOWNHOLE
HS - HEADSPACE
BZ - BREATHING ZONE
D - DURING DRILLING (BZ)
OT - OTHER

COMPLETE BOLDED DATA FOR ENTRY INTO TIMS

6/21/94 — FORM COMPLETED BY / DATE

7/6/94 — TECHNICAL REVIEWER / DATE

BOREHOLE OR WELL PLUGGING/ABANDONMENT — SOIL BORING B31

PROJECT: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 — PROJECT NO.: 34896

SITE ID NUMBER: BØ1 DATE PLUGGED 6 / 21 / 94

SITE COORDINATES: N: NA E: NA DEPTH BLS (ft) 35.5

TYPE OF CASING: NA

CASING DIAMETER (ID) (in.) NA GROUND ELEVATION (ft msl) NA

SCREENED ELEVATION (ft msl) NA

GEOLOGIC MATERIAL AT SCREEN NA

AMOUNT OF CASING REMOVED (ft) NA

PLUGGING MATERIAL NEAT GROUT

APPROX. VOLUME OF PLUGGING MATERIAL (cu ft.) ~~149~~ GL 6/21/94 12.4

PLUGGING METHOD TREMIED THROUGH AUGERS

REMARKS NONE

RECORDED BY: [signature] (Signature) QA CHECKED BY: [signature] 7/6/94 (Signature)

SOLID MATRICES

SOIL
- [01] Surface (0-6 inches)
- [02] Subsurface (>6 inches)
- [09] Other

SEDIMENT / SLUDGES
- [11] Lake/Pond
- [12] River/Stream
- [13] Impoundment/Pond
- [14] Drum/Tank
- [19] Other

AIR SAMPLE
- [21] Filter
- [22] Sorbent
- [23] Sweepings/Fugitive Dust
- [24] Gases
- [29] Other

BIOLOGICAL/TERRESTRIAL
- [31] Biota
- [39] Other

GEO-TECHNICAL
- [41] Retained on #40
- [42] Retained on #200
- [43] Passed through #200
- [49] Other

LIQUID MATRICES

SURFACE WATER
- [51] Lake/Pond
- [52] River/Stream
- [53] Impoundment/Pond
- [54] Discharge
- [55] Spring/Seep
- [59] Other

GROUND WATER
- [61] Abandoned Well
- [62] Extraction Well
- [63] Injection Well
- [64] Irrigation Well
- [65] Lysimeter
- [66] Monitoring Well
- [67] Observation Well
- [68] Piezometer
- [69] Other
- [6A] Public Water Supply
- [6B] Purge Well
- [6C] Test Well
- [6D] Vapor Well
- [6E] Leachate Well

CONTAINERIZED

SEALED	UNSEALED
[71] Drum/Tank	[81] Drum/Tank
[79] Other	[89] Other

SAMPLE LOG SHEET

P36

PROJECT NAME: Mound Operational Area **PROJECT NO:** 2680

SAMPLE ID NUMBER: B01001 DATE COLLECTED (MM/DD/YY): 6/20/94 TIME (HH:MM): 0950

SAMPLING -

LOCATION CODE: MNDOA

DESCRIPTION: MOUND OPERATIONAL AREA

POINT CODE: B01

DESCRIPTION: OPERAIONAL AREA BORING #1

SAMPLE -

MEDIA CODE: 01

DESCRIPTION: Soil Surface (0 - 6 Inches)

DEPTH 0.00 TO ~~5.00~~ 2.0 FT JTD 7/6/94

SAMPLE TYPE:

- [X] GRAB
- [ ] SPATIAL COMPOSITE
- [ ] TIME COMPOSITE
- [ ] QC TRIP BLANK
- [ ] QC RINSATE
- [ ] QC FIELD BLANK
- [ ] OTHER (SPECIFY) _____

FIELD OBSERVATIONS: SAMPLE COLLECTED BY SCRAPING SOIL DIRECTLY FROM HOLE WITH A SPOON INTO A BOWL

SAMPLE COLLECTED: [X] YES [ ] NO

SAP SAMPLING PROCEDURE WAS FOLLOWED: [X] YES [ ] NO FIELD CHANGE ORDER REFERENCE NO: NA

IF SAP WAS NOT FOLLOWED, SPECIFY WHAT DEVIATIONS WERE NECESSARY AND WHY (INCLUDE FIELD CHANGE ORDER REFERENCE NO.):

NA

RECORDED BY: [signature] (SIGNATURE) QA CHECKED BY: [signature] 7/6/94

SAMPLE LOG SHEET

SAMPLING NUMBER: 80100

P 37

CONTAINER VOLUME (ml)	CONTAINER TYPE	METHOD NAME AND NUMBER ANALYSIS	PRESERVATIVES (TYPE/VOL)	C-O-C #	AIR BILL #	CONTAINER LOT #	LABORATORY
1-120	WM Glass	CLPVOA	Cool,4C	OAC001	9289476350	SEE CONTAINER LOT # LOG	COMPUC
1-250	AmbGlass	SVOC,PEST/PCB	Cool,4C				COMPUC
1-250	AmbGlass	EXPLOSIVES	Cool,4C				COMPUC
JPH 2/4/94 2-250	WM Glass	ANIONS Fl,SO4,Cl,N02/N03	Cool,4C				COMPUC
1-250	WM Glass	METALS,Cyanide	Cool,4C				COMPUC
1-120	Poly	LANTHANIDES	Cool,4C				COMPUC
1-120	AmbGlass	TOTAL ORGANIC CARBON	Cool,4C				COMPUC
2-250	WM GLASS	RADS Ac,Sr,H3,GAMMA	NONE				COMPUC
2-250	WM GLASS	RADS Pu,Th,U	NONE				COMPUC
		Last entry					

SAMPLE ID'S RINSATE: ER0001 TRIP BLANK: TBA001 FIELD BLANK: AB0001 FIELD DUPLICATE: NA

RECORDED BY: [signature] (SIGNATURE) QA CHECKED BY: [signature] 7/6/94 (SIGNATURE)

SAMPLE LOG SHEET

PROJECT NAME: Mound Operational Area PROJECT NO: 2680 P38

SAMPLE ID NUMBER: B01002 DATE COLLECTED (MM/DD/YY): 6/20/94 TIME (HH:MM): 1012

SAMPLING -

LOCATION CODE: MNDOA

DESCRIPTION: MOUND OPERATIONAL AREA

POINT CODE: B01

DESCRIPTION: OPERAIONAL AREA BORING #1

SAMPLE -

MEDIA CODE: 02

DESCRIPTION: Soil Subsurface (>6 Inches)

DEPTH 5.00 TO 7.00 FT

SAMPLE TYPE:

- [X] GRAB
- [ ] TIME COMPOSITE
- [ ] QC RINSATE
- [ ] OTHER (SPECIFY)
- [ ] SPATIAL COMPOSITE
- [ ] QC TRIP BLANK
- [ ] QC FIELD BLANK

FIELD OBSERVATIONS: NONE

SAMPLE COLLECTED: [X] YES [ ] NO

SAP SAMPLING PROCEDURE WAS FOLLOWED: [X] YES [ ] NO FIELD CHANGE ORDER REFERENCE NO: NA

IF SAP WAS NOT FOLLOWED, SPECIFY WHAT DEVIATIONS WERE NECESSARY AND WHY (INCLUDE FIELD CHANGE ORDER REFERENCE NO.):

NA

RECORDED BY: (SIGNATURE) QA CHECKED BY: (SIGNATURE) 7/6/94

RECORDED BY: [signature] (SIGNATURE) QA CHECKED BY: [signature] 7/6/94

SAMPLE ID NUMBER: B01002 P39

CONTAINER VOLUME (ml)	CONTAINER TYPE	METHOD NAME AND NUMBER ANALYSIS	PRESERVATIVES (TYPE/VOL)	C-O-C #	AIR BILL #	CONTAINER LOT #	LABORATORY
1-120	WM Glass	CLPVOA	Cool,4C	OAC001	9259476350	SEE CONTAINER LOT # LOG	COMPUC
1-250	AmbGlass	SVOC,PEST/PCB	Cool,4C				COMPUC
1-250	AmbGlass	EXPLOSIVES	Cool,4C				COMPUC
2 ~~1~~-250	WM Glass	ANIONS Fl,SO4,Cl,N02/N03	Cool,4C				COMPUC
1-250	WM Glass	METALS,Cyanide	Cool,4C				COMPUC
1-120	Poly	LANTHANIDES	Cool,4C				COMPUC
1-120	AmbGlass	TOTAL ORGANIC CARBON	Cool,4C				COMPUC
2-250	WM GLASS	RADS Ac,Sr,H3,GAMMA	NONE				COMPUC
2-250	WM GLASS	RADS Pu,Th,U	NONE				COMPUC
		Last Entry					

GA 6/20/94

SAMPLE ID'S RINSATE: ER0002 TRIP BLANK: TB0001 FIELD BLANK: FB0001 FIELD DUPLICATE: NA

RECORDED BY: [signature] (SIGNATURE) QA CHECKED BY: [signature] 7/6/94 (SIGNATURE)

SAMPLE LOG SHEET

PROJECT NAME: Mound Operational Area **PROJECT NO:** 2680 P40

SAMPLE ID NUMBER: B01003 DATE COLLECTED (MM/DD/YY): 6/20/94 TIME (HH:MM): 1045

SAMPLING -

LOCATION CODE: MNDOA

DESCRIPTION: MOUND OPERATIONAL AREA

POINT CODE: B01

DESCRIPTION: OPERAIONAL AREA BORING #1

SAMPLE -

MEDIA CODE: 02

DESCRIPTION: Soil Subsurface (>6 Inches)

DEPTH 10.00 TO 12.00 FT

SAMPLE TYPE:

- [x] GRAB
- [ ] TIME COMPOSITE
- [ ] QC RINSATE
- [ ] OTHER (SPECIFY) _____
- [ ] SPATIAL COMPOSITE
- [ ] QC TRIP BLANK
- [ ] QC FIELD BLANK

FIELD OBSERVATIONS: NONE

SAMPLE COLLECTED: [x] YES [ ] NO

SAP SAMPLING PROCEDURE WAS FOLLOWED: [x] YES [ ] NO FIELD CHANGE ORDER REFERENCE NO: NA

IF SAP WAS NOT FOLLOWED, SPECIFY WHAT DEVIATIONS WERE NECESSARY AND WHY (INCLUDE FIELD CHANGE ORDER REFERENCE NO.):

NA

RECORDED BY: [signature] (SIGNATURE) QA CHECKED BY: [signature] 7/6/94 (SIGNATURE)

RECORDED BY: [illegible] (SIGNATURE) QA CHECKED BY: [illegible] 7/6/94

SAMPLE ID NUMBER: BØ1ØØ3

CONTAINER VOLUME (ml)	CONTAINER TYPE	METHOD NAME AND NUMBER ANALYSIS	PRESERVATIVES (TYPE/VOL)	C-O-C #	AIR BILL #	CONTAINER LOT #	LABORATORY
1-12Ø	WM Glass	CLPVOA	Cool,4C	OACØØ1	9281476356Ø	SEE CONTAINER LOT # LOG	COMPUC
1-25Ø	AmbGlass	SVOC,PEST/PCB	Cool,4C				COMPUC
1-25Ø	AmbGlass	EXPLOSIVES	Cool,4C				COMPUC
1-25Ø	WM Glass	ANIONS Fl,SO4,Cl,NØ2/NØ3	Cool,4C				COMPUC
1-25Ø	WM Glass	METALS,Cyanide	Cool,4C				COMPUC
1-12Ø	Poly	LANTHANIDES	Cool,4C				COMPUC
1-12Ø	AmbGlass	TOTAL ORGANIC CARBON	Cool,4C				COMPUC
2-25Ø	WM GLASS	RADS Ac,Sr,H3,GAMMA	NONE				COMPUC
2-25Ø	WM GLASS	RADS Pu,Th,U	NONE				COMPUC
		LAST ENTRY					

CA 6/20/94

SAMPLE ID'S RINSATE: ERØØØ2 TRIP BLANK: TBAØØ1 FIELD BLANK: ABØBØ1 FIELD DUPLICATE: NA

RECORDED BY: [illegible] (SIGNATURE) QA CHECKED BY: [illegible] 7/6/94 (SIGNATURE)

SAMPLE LOG SHEET

PROJECT NAME: Mound Operational Area PROJECT NO: 2680 P42

SAMPLE ID NUMBER: B01004 DATE COLLECTED (MM/DD/YY): 6/20/94 TIME (HH:MM): 1109

SAMPLING -

LOCATION CODE: MNDOA

DESCRIPTION: MOUND OPERATIONAL AREA

POINT CODE: B01

DESCRIPTION: OPERAIONAL AREA BORING #1

SAMPLE -

MEDIA CODE: 02

DESCRIPTION: Soil Subsurface (> 6 Inches)

DEPTH 15.00 TO 17.00 FT

SAMPLE TYPE:

- [x] GRAB
- [ ] SPATIAL COMPOSITE
- [ ] TIME COMPOSITE
- [ ] QC TRIP BLANK
- [ ] QC RINSATE
- [ ] QC FIELD BLANK
- [ ] OTHER (SPECIFY)

FIELD OBSERVATIONS: NONE

SAMPLE COLLECTED: [x] YES [ ] NO

SAP SAMPLING PROCEDURE WAS FOLLOWED: [x] YES [ ] NO FIELD CHANGE ORDER REFERENCE NO: NA

IF SAP WAS NOT FOLLOWED, SPECIFY WHAT DEVIATIONS WERE NECESSARY AND WHY (INCLUDE FIELD CHANGE ORDER REFERENCE NO.):

NONE

RECORDED BY: [signature] (SIGNATURE) QA CHECKED BY: [signature] 7/6/94 (SIGNATURE)

SAMPLE LOG SHEET

SAMPLE ID NUMBER: B01004

CONTAINER VOLUME (ml)	CONTAINER TYPE	METHOD NAME AND NUMBER ANALYSIS	PRESERVATIVES (TYPE/VOL)	C-O-C #	AIR BILL #	CONTAINER LOT #	LABORATORY
1-120	WM Glass	CLPVOA	Cool,4C	OAC001	9289476350		COMPUC
1-250	AmbGlass	SVOC,PEST/PCB	Cool,4C			SEE CONTAINER LOT # LOG	COMPUC
1-250	AmbGlass	EXPLOSIVES	Cool,4C				COMPUC
2-250	WM Glass	ANIONS Fl,SO4,Cl,NO2/NO3	Cool,4C				COMPUC
1-250	WM Glass	METALS,Cyanide	Cool,4C				COMPUC
1-120	Poly	LANTHANIDES	Cool,4C				COMPUC
1-120	AmbGlass	TOTAL ORGANIC CARBON	Cool,4C				COMPUC
2-250	WM GLASS	RADS Ac,Sr,H3,GAMMA	NONE				COMPUC
2-250	WM GLASS	RADS Pu,Th,U	NONE				COMPUC
		Last Entry					

SAMPLE ID'S RINSATE: ER0002 TRIP BLANK: TBA001 FIELD BLANK: AB0001 FIELD DUPLICATE: NA

RECORDED BY: [signature] (SIGNATURE) QA CHECKED BY: [signature] 7/6/94 (SIGNATURE)

B02

SAMPLE LOG SHEET

PROJECT NAME: Mound Operational Area PROJECT NO: 2680 P44

SAMPLE ID NUMBER: B01005 DATE COLLECTED (MM/DD/YY): 6/20/94 TIME (HH:MM): 1325

SAMPLING -

LOCATION CODE: MNDOA

DESCRIPTION: MOUND OPERATIONAL AREA

POINT CODE: B01

DESCRIPTION: OPERAIONAL AREA BORING #1

SAMPLE -

MEDIA CODE: 02

DESCRIPTION: Soil Subsurface (>6 Inches)

DEPTH 20.00 TO 22.00 FT

SAMPLE TYPE:

- [X] GRAB
- [ ] TIME COMPOSITE
- [ ] QC RINSATE
- [ ] OTHER (SPECIFY) _____
- [ ] SPATIAL COMPOSITE
- [ ] QC TRIP BLANK
- [ ] QC FIELD BLANK

FIELD OBSERVATIONS:

SAMPLE COLLECTED: [X] YES [ ] NO

SAP SAMPLING PROCEDURE WAS FOLLOWED: [X] YES [ ] NO FIELD CHANGE ORDER REFERENCE NO: NA

IF SAP WAS NOT FOLLOWED, SPECIFY WHAT DEVIATIONS WERE NECESSARY AND WHY (INCLUDE FIELD CHANGE ORDER REFERENCE NO.):

NONE

RECORDED BY: [signature] (SIGNATURE) QA CHECKED BY: [signature] TMD 7/6/94 7/6/94 (SIGNATURE)

(SIGNATURE)

(SIGNATURE)

SAMPLE LOG SHEET

SAMPLE ID NUMBER: B01005

P45

CONTAINER VOLUME (ml)	CONTAINER TYPE	METHOD NAME AND NUMBER ANALYSIS	PRESERVATIVES (TYPE/VOL)	C-O-C #	AIR BILL #	CONTAINER LOT #	LABORATORY
1-120	WM Glass	CLPVOA	Cool,4C	OAC001	9289476350	SEE CONTAINER LOT # LOG	COMPUC
1-250	AmbGlass	SVOC,PEST/PCB	Cool,4C				COMPUC
1-250	AmbGlass	EXPLOSIVES	Cool,4C				COMPUC
2/~~1~~-250	WM Glass	ANIONS Fl,SO4,Cl,N02/N03	Cool,4C				COMPUC
1-250	WM Glass	METALS,Cyanide	Cool,4C				COMPUC
1-120	Poly	LANTHANIDES	Cool,4C				COMPUC
1-120	AmbGlass	TOTAL ORGANIC CARBON	Cool,4C				COMPUC
2-250	WM GLASS	RADS Ac,Sr,H3,GAMMA	NONE				COMPUC
2-250	WM GLASS	RADS Pu,Th,U	NONE				COMPUC
		Last Entry					

SAMPLE ID'S RINSATE: ER0001 TRIP BLANK: TB0001 FIELD BLANK: NB0001 FIELD DUPLICATE: NA

RECORDED BY: [signature] (SIGNATURE) QA CHECKED BY: [signature] 7/6/94 (SIGNATURE)

SAMPLE LOG SHEET

PROJECT NAME: Mound Operational Area **PROJECT NO:** 2680 P46

SAMPLE ID NUMBER: BØ1ØØ6 DATE COLLECTED (MM/DD/YY): 6/20/94 TIME (HH:MM): 1425

SAMPLING -

LOCATION CODE: MNDOA

DESCRIPTION: MOUND OPERATIONAL AREA

POINT CODE: BØ1

DESCRIPTION: OPERAIONAL AREA BORING #1

SAMPLE -

MEDIA CODE: Ø2

DESCRIPTION: Soil Subsurface (>6 Inches)

DEPTH 25.ØØ TO 27.ØØ FT

SAMPLE TYPE:

- [X] GRAB
- [ ] TIME COMPOSITE
- [ ] QC RINSATE
- [ ] OTHER (SPECIFY)
- [ ] SPATIAL COMPOSITE
- [ ] QC TRIP BLANK
- [ ] QC FIELD BLANK

FIELD OBSERVATIONS: NONE

SAMPLE COLLECTED: [X] YES [ ] NO

SAP SAMPLING PROCEDURE WAS FOLLOWED: [X] YES [ ] NO FIELD CHANGE ORDER REFERENCE NO: NA

IF SAP WAS NOT FOLLOWED, SPECIFY WHAT DEVIATIONS WERE NECESSARY AND WHY (INCLUDE FIELD CHANGE ORDER REFERENCE NO.):

NA

RECORDED BY: (SIGNATURE) QA CHECKED BY: 7/6/94 (SIGNATURE)

P47

SAMPLE LOG SHEET

SAMPLE NUMBER	PRESERVATIVES	C-O-C #	AIR BILL #	CONTAINER LOT #	LABORATORY
BØ1ØØ6					

(SIGNATURE)

SAMPLE LOG SHEET

SAMPLE ID NUMBER: B01006

P47

CONTAINER VOLUME (ml)	CONTAINER TYPE	METHOD NAME AND NUMBER ANALYSIS	PRESERVATIVES (TYPE/VOL)	C-O-C #	AIR BILL #	CONTAINER LOT #	LABORATORY
1-120	WM Glass	CLPVOA	Cool,4C	OAC001	9289476350	SEE CONTAINER LOT # LOG	COMPUC
1-250	AmbGlass	SVOC,PEST/PCB	Cool,4C				COMPUC
1-250	AmbGlass	EXPLOSIVES	Cool,4C				COMPUC
1-250	WM Glass	ANIONS Fl,SO4,Cl,N02/N03	Cool,4C				COMPUC
1-250	WM Glass	METALS,Cyanide	Cool,4C				COMPUC
1-120	Poly	LANTHANIDES	Cool,4C				COMPUC
1-120	AmbGlass	TOTAL ORGANIC CARBON	Cool,4C				COMPUC
2-250	WM GLASS	RADS Ac,Sr,H3,GAMMA	NONE				COMPUC
2-250	WM GLASS	RADS Pu,Th,U	NONE				COMPUC
		LAST ENTRY					

SAMPLE ID'S RINSATE: ~~ER001~~ SB8-8 ER0002 TRIP BLANK: TBA001 FIELD BLANK: AB0001 FIELD DUPLICATE: NA

RECORDED BY: [signature] (SIGNATURE) QA CHECKED BY: [signature] 7/6/94 (SIGNATURE)

CVD 7051

SAMPLE LOG SHEET

PROJECT NAME: Mound Operational Area PROJECT NO: 2680 P48

SAMPLE ID NUMBER: B01007 DATE COLLECTED (MM/DD/YY): 6/20/94 TIME (HH:MM): 1514 & 0835

SAMPLING -

LOCATION CODE: MNDOA

DESCRIPTION: MOUND OPERATIONAL AREA

POINT CODE: B01

DESCRIPTION: OPERAIONAL AREA BORING #1

SAMPLE -

MEDIA CODE: 02

DESCRIPTION: Soil Subsurface (> 6 Inches)

DEPTH 30.00 TO 32.00 FT

SAMPLE TYPE:

- [X] GRAB
- [ ] TIME COMPOSITE
- [ ] QC RINSATE
- [ ] OTHER (SPECIFY)
- [ ] SPATIAL COMPOSITE
- [ ] QC TRIP BLANK
- [ ] QC FIELD BLANK

FIELD OBSERVATIONS: TOOK SAMPLE DURING RAIN EVENT

DID NOT COMPLETE SAMPLE UNTIL 6/21/94 @ 0835 DUE TO LIGHTNING ALERT, GAMMA SPEC JARS AND ISO PLUTONIUM JAR COLLECTED THEN. OVA READINGS PEAKED TO 18 PPM DOWN HOLE AFTER PULLING SPOON

SAMPLE COLLECTED: [X] YES [ ] NO

SAP SAMPLING PROCEDURE WAS FOLLOWED: [X] YES [ ] NO FIELD CHANGE ORDER REFERENCE NO: NA

IF SAP WAS NOT FOLLOWED, SPECIFY WHAT DEVIATIONS WERE NECESSARY AND WHY (INCLUDE FIELD CHANGE ORDER REFERENCE NO.):

NONE

RECORDED BY: [signature] (SIGNATURE) QA CHECKED BY: [signature] 7/6/94 (INITIALS/DATE)

CHECKED BY: _____ 1/01/1
(SIGNATURE)

SAMPLE LOG SHEET

SAMPLE ID NUMBER: B01007

P45

CONTAINER VOLUME (ml)	CONTAINER TYPE	METHOD NAME AND NUMBER ANALYSIS	PRESERVATIVES (TYPE/VOL)	C-O-C #	AIR BILL #	CONTAINER LOT #	LABORATORY
1-120	WM Glass	CLPVOA	Cool,4C	CAC002	8219959451	SEE CONTAINER LOT # LOG	COMPUC
1-250	AmbGlass	SVOC,PEST/PCB	Cool,4C				COMPUC
1-250	AmbGlass	EXPLOSIVES	Cool,4C				COMPUC
2-250	WM Glass	ANIONS Fl,SO4,Cl,NO2/NO3	Cool,4C				COMPUC
1-250	WM Glass	METALS,Cyanide	Cool,4C				COMPUC
1-120	Poly	LANTHANIDES	Cool,4C				COMPUC
1-120	AmbGlass	TOTAL ORGANIC CARBON	Cool,4C				COMPUC
2-250	WM GLASS	RADS Ac,Sr,H3,GAMMA	NONE				COMPUC
2-250	WM GLASS	RADS Pu,Th,U	NONE				COMPUC
		LAST ENTRY					

JDK 6/20/94

SAMPLE ID'S RINSATE: ER0001 TRIP BLANK: TBA002 FIELD BLANK: AB0001 FIELD DUPLICATE: NA

RECORDED BY: _____ (SIGNATURE) QA CHECKED BY: _____ 7/6/94 (SIGNATURE)

SAMPLE LOG SHEET

PROJECT NAME: Mound Operational Area **PROJECT NO:** 2680 P66

SAMPLE ID NUMBER: B01021 DATE COLLECTED (MM/DD/YY): 6/20/94 TIME (HH:MM): 1035

SAMPLING -

LOCATION CODE: MNDOA

DESCRIPTION: MOUND OPERATIONAL AREA

POINT CODE: B01

DESCRIPTION: OPERAIONAL AREA BORING #1

SAMPLE -

MEDIA CODE: 02

DESCRIPTION: Soil Subsurface (>6 Inches)

DEPTH 7.00 TO 9.00 Ft

FIELD OBSERVATIONS: 0.5' RECOVERED SHELBY TUBE SAMPLE

SAMPLE TYPE:

- [x] GRAB
- [ ] TIME COMPOSITE
- [ ] QC RINSATE
- [ ] OTHER (SPECIFY)
- [ ] SPATIAL COMPOSITE
- [ ] QC TRIP BLANK
- [ ] QC FIELD BLANK

SAMPLE COLLECTED: [x] YES [ ] NO

SAP SAMPLING PROCEDURE WAS FOLLOWED: [x] YES [ ] NO FIELD CHANGE ORDER REFERENCE NO: NA

IF SAP WAS NOT FOLLOWED, SPECIFY WHAT DEVIATIONS WERE NECESSARY AND WHY (INCLUDE FIELD CHANGE ORDER REFERENCE NO.):

NA

RECORDED BY: [illegible] QA CHECKED BY: [illegible] 7/6/94

(SIGNATURE)

QA CHECKED BY: 7/6/94
(SIGNATURE)

SAMPLE LOG SHEET

SAMPLE ID NUMBER: B01021

P67

CONTAINER VOLUME (ml)	CONTAINER TYPE	METHOD NAME AND NUMBER ANALYSIS	PRESERVATIVES (TYPE/VOL)	C-O-C # gPH 7/7/94	AIR BILL #	CONTAINER LOT #	LABORATORY
1-0	SHELBY	GEOTECHNICAL	Cool,4C	~~OAS001~~ NPS008	2169350702	NA	SINGLE
1-19	BUCKET	GEOTECHNICAL	Cool,4C			NA	SINGLE
		LAST ENTRY					

SAMPLE ID'S RINSATE: NA TRIP BLANK: NA FIELD BLANK: NA FIELD DUPLICATE: NA

RECORDED BY: (SIGNATURE)

QA CHECKED BY: 7/6/94
(SIGNATURE)

SAMPLE LOG SHEET

PROJECT NAME: Mound Operational Area PROJECT NO: 2680 P68

SAMPLE ID NUMBER: B01022 DATE COLLECTED (MM/DD/YY): 6/20/94 TIME (HH:MM): 1259

SAMPLING -

LOCATION CODE: MNDOA

DESCRIPTION: MOUND OPERATIONAL AREA

POINT CODE: B01

DESCRIPTION: OPERAIONAL AREA BORING #1

SAMPLE -

MEDIA CODE: 02

DESCRIPTION: Soil Subsurface (>6 Inches)

DEPTH 17.00 TO 19.00 FT

FIELD OBSERVATIONS: RECOVERED 0.6'

SAMPLE TYPE:

- [X] GRAB
- [ ] TIME COMPOSITE
- [ ] QC RINSATE
- [ ] OTHER (SPECIFY)
- [ ] SPATIAL COMPOSITE
- [ ] QC TRIP BLANK
- [ ] QC FIELD BLANK

SAMPLE COLLECTED: [X] YES [ ] NO

SAP SAMPLING PROCEDURE WAS FOLLOWED: [X] YES [ ] NO FIELD CHANGE ORDER REFERENCE NO: NA

IF SAP WAS NOT FOLLOWED, SPECIFY WHAT DEVIATIONS WERE NECESSARY AND WHY (INCLUDE FIELD CHANGE ORDER REFERENCE NO.):

NA

RECORDED BY: [signature] (SIGNATURE) QA CHECKED BY: [signature] 7/6/94

SAMPLE ID NUMBER: B01022

T67

CONTAINER VOLUME (ml)	CONTAINER TYPE	METHOD NAME AND NUMBER ANALYSIS	PRESERVATIVES (TYPE/VOL)	C-O-C #	AIR BILL #	CONTAINER LOT #	LABORATORY
				gpH 7/7/94			
1-0	SHELBY	GEOTECHNICAL	Cool,4C	NPS008 ~~OAS001~~	2169350702	NA	SINGLE
1-19	BUCKET	GEOTECHNICAL	Cool,4C	*		NA	SINGLE
		Unit Entry					

SAMPLE ID'S RINSATE: NA TRIP BLANK: NA FIELD BLANK: NA FIELD DUPLICATE: NA

RECORDED BY: [signature] (SIGNATURE) QA CHECKED BY: [signature] 7/6/94 (SIGNATURE)

7-05

SAMPLE LOG SHEET

PROJECT NAME: Mound Operational Area PROJECT NO: 2680 P70

SAMPLE ID NUMBER: B01023 DATE COLLECTED (MM/DD/YY): 6/20/94 TIME (HH:MM): 1343

SAMPLING -

LOCATION CODE: MNDOA

DESCRIPTION: MOUND OPERATIONAL AREA

POINT CODE: B01

DESCRIPTION: OPERAIONAL AREA BORING #1

SAMPLE -

MEDIA CODE: 02

DESCRIPTION: Soil Subsurface (>6 Inches)

DEPTH 22.00 TO 24.00 FT

SAMPLE TYPE:

- [X] GRAB
- [ ] TIME COMPOSITE
- [ ] QC RINSATE
- [ ] OTHER (SPECIFY)
- [ ] SPATIAL COMPOSITE
- [ ] QC TRIP BLANK
- [ ] QC FIELD BLANK

FIELD OBSERVATIONS: RECOVERED 1.0' SAME HORIZON AS B01022

SAMPLE COLLECTED: [X] YES [ ] NO

SAP SAMPLING PROCEDURE WAS FOLLOWED: [X] YES [ ] NO FIELD CHANGE ORDER REFERENCE NO: NA

IF SAP WAS NOT FOLLOWED, SPECIFY WHAT DEVIATIONS WERE NECESSARY AND WHY (INCLUDE FIELD CHANGE ORDER REFERENCE NO.):

NONE

RECORDED BY: (SIGNATURE) QA CHECKED BY: 7/6/94

RECORDED BY: 1/6/17
(SIGNATURE)

SAMPLE LOG SHEET

SAMPLE ID NUMBER: BØ1Ø23

P71

CONTAINER VOLUME (ml)	CONTAINER TYPE	METHOD NAME AND NUMBER ANALYSIS	PRESERVATIVES (TYPE/VOL)	C-O-C #	AIR BILL #	CONTAINER LOT #	LABORATORY
				JPH 7/7/94			
1-Ø	SHELBY	GEOTECHNICAL	Cool,4C	~~NPS0068~~ ~~GA5084~~	2169350702	NA	SINGLE
1-19	BUCKET	GEOTECHNICAL	Cool,4C	*		NA	SINGLE
		Last Entry					

SAMPLE ID'S RINSATE: NA TRIP BLANK: NA FIELD BLANK: NA FIELD DUPLICATE: NA

RECORDED BY: (SIGNATURE) QA CHECKED BY: 7/6/94 (SIGNATURE)

TASK TEAM ACTIVITY LOG SHEET

SOIL BORING B02 P109

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1

TASK NO.: 34896

Date (mm/dd/yy): 6/21/94 TIME: 1320 PAGE 1 OF 2

Task Team Members:

GREG LODER (SAIC) DENNIS SINK (BM)

JEFF DEVAUGHN (SAIC) DWIGHT WERK (BM)

Narrative (include time and location):

1320 ARRIVE ON SITE TO SET UP EXCLUSION ZONE. BOREHOLE LOCATED 30' NORTH OF BUILDING 29.

1330 JOYCE ON SITE SUPPLIES DIGGING PERMIT, HENRY ON SITE

1340 TAKE B02Z001 SURFACE SAMPLE WITH SPOON AND BOWL OVA = Ø PPM, LEL = Ø

1352 NOTICED THAT BUILDING 29 IS AN ASBESTOS AREA AND THAT THERE IS AN AIR EXHAUST BLOWING IN DIRECTION OF BOREHOLE. HENRY RECOMMENDS THAT DRILLERS ARE IN RISK AND THAT WE SHOULD ALL LEAVE EXCLUSION AREA, CALL JOYCE IN TO EVALUATE.

1359 JOYCE ON SITE

1410 JOYCE RECOMMENDS THAT WE CALL IN INDUSTRIAL HYGIENE TO SET UP AIR MONITORS, AND THAT WE COULD WAIT IN BUILDING 61 UNTIL THAT IS SET UP.

1435 SANDY GEIBEL FROM I.H. EXPLAINED FILTERING AND MONITORING SETUP IN BLDG 29. INTERNAL AIR MONITORING RESULTS ARE AVAILABLE AND WERE REQUESTED. DENNIS REQUESTED

Daily Weather Conditions: A.M. NA

P.M. 95°F SUNNY HUMID

Recorded By [signature] QA Checked By [signature] 7/7/94

TASK TEAM ACTIVITY LOG SHEET

SOIL BORING B02 110

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 TASK NO: 34896

Date (mm/dd/yy): 6/21/94 TIME: NA PAGE 2 OF 2

Task Team Members:

SEE PAGE 109

Narrative (include time and location):

TO BE SUPPLIED A PERSONAL AIR MONITOR BUT WOULD WORK THE REST OF TODAY WITHOUT IT (APPROX 1 HOUR)

1450 TAKE B02002 OVA=0 PPM LEL=0

1500 SECOND SPOON FOR B02002 LOOKS LIKE WEATHERED SHALE AND LIMESTONE FRAGMENTS. NEED THIRD SPOON TO COMPLETE SAMPLE

1511 THIRD SPOON TO COMPLETE B02002

1525 FILLED HOLE WITH GROUT, WE WILL USE ASPHALT PATCH TO FINISH IT OFF TOMORROW

1535 LEAVE SITE. TWA= 0.14 FROM DUST MONITORING

LAST ENTRY

Daily Weather Conditions: A.M. NA

P.M. 95° F SUNNY HUMID

Recorded By [signature] QA Checked By [signature] 7/7/94

BOREHOLE LOG (SOIL)

SOIL BORING: B02 P119

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1

PROJECT NO: 34896

FACILITY CODE: MND21

LOCATION ID: B02

COORDINATES (FT):

NORTH NA EAST NA

GROUND ELEVATION (FT MSL) NA

LOCATION TYPE: BH

COMMENTS: NONE

DRILLER CODE: BOWS

COMPLETION DATE 6/21/1994

DIAMETER (IN): 8"

DEPTH (FTFD): 7.5

CONSTRUCTION METHOD: B

ACCEPTANCE CODE: A

GROUNDWATER LEVELS

DATE	TIME	DEPTH (FT)
NONE ENCOUNTERED		

LOCATION DESCRIPTION

30' NORTH OF BUILDING 29

LITHOLOGIC LOG

LOGGER CODE: SAIC

(FT)	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE RETAINED	SAMPLE METHOD	SAMPLE ID	BLOW COUNT (PER 6 IN)	N VALUE	USCS	VISUAL DESCRIPTIONS
2	0-2	FULL	FULL	O	B02~~0001~~	NA	NA	GM	SAND AND GRAVEL TRACE SILT
									DRY, LOOSE 10YR 5/3 BROWN
									LOOKS LIKE ROADWAY FILL
									TAKEN WITH SPOON AND BOWL
5	5-7	1.1	1.1	U	B02~~002~~	16/19/32/38	70	ML	CLAY TRACE, COARSE SAND,
	SECOND SPOON	0.4	0.4	U	"	29/26/34/49	83	"	VERY FIRM DRY FRACTURED
									BEDDED 5Y 5/2 OLIVE
									GRAY WITH LIMESTONE
7.5	NA	NA	NA	NA	NA	NA	NA	NA	BEDROCK @ 7.5'
				LAST	ENTRY	—			

ACCEPTANCE CODES: A - ACCEPTABLE, R - RECONNAISSANCE, U - UNACCEPTABLE, N - NOT DETERMINED

CONSTRUCTION METHODS:

A - AIR ROTARY
B - BORED OR AUGERED
C - CABLE - TOOL
D - DUG
H - HYDRAULIC - ROTORY
J - JETTED
P - AIR - PERCUSSION
R - REVERSE ROTERY
T - TRENCHING
V - DRIVEN
W - DRIVE AND WASH
Z - OTHER (SPECIFY)

SAMPLE METHODS:

A - AUGER CUTTINGS
S - 2" O.D. 1.38" I.D. DRIVE SAMPLES
U - 3" O.D. 2.42" I.D. TUBE SAMPLES
T - 3" O.D. THIN-WALLED SHELBY TUBE
O - OTHER (SPECIFY)

COMPLETE BOLDED DATA FOR ENTRY INTO TIMS

FORM COMPLETED BY / DATE 6/21/94

TECHNICAL REVIEWER / DATE 7/7/94

COMBUSTIBLE GAS INDICATOR (CGI) MONITORING DATA — SOIL BORING

B02 P135

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 — PROJECT NO: 34896

FACILITY CODE: MND21 — LOG DATE: 6/21/94

LOGGER CODE: SAIC — FIELD REP: G. LODER

CGI MANUFACTURER: INDUSTRIAL SCIENTIFIC — CGI MODEL NO.: MX 251

SERIAL NO.: 7470 — CALIBRATION DATE/TIME: 6/21/94, 0740

ACCEPTANCE CODE: A — BATTERY CONDITION GOOD

CALIBRATION GAS (%LEL) TYPE PENTANE CONCENTRATION 50 % LEL CYLINDER SERIAL NO 39731

CALIBRATION GAS (PPM) TYPE NA CONCENTRATION NA PPM CYLINDER SERIAL NO NA

COMMENTS: NONE

LOCATION ID OR DESCRIPTION	COORDINATES FT NORTH	COORDINATES FT EAST	MONITORING TIME (HH:MM)	LOCATION TYPE	% LOWER EXPLOSIVE LIMIT	PPM	% OXYGEN
B02	NA	NA	1340	BH	0	NA	21
"	NA	NA	1450	BH	0	NA	21
			Last Entry				

ACCEPTANCE CODES: A - ACCEPTABLE, R - RECONNAISSANCE, U - UNACCEPTABLE, N - NOT DETERMINED

LOCATION TYPES: BH - BOREHOLE SL - SURFACE LOCATION TP - TEST PIT WL - WELL

COMPLETE BOLDED DATA FOR ENTRY INTO TIMS

6/21/94 — FORM COMPLETED BY / DATE

7/7/94 — TECHNICAL REVIEWER / DATE

FLAME IONIZATION DETECTOR FIELD DATA — SOIL BORING B02 P137

PROJECT NAME: EG&G MOUND OU5 OPERAIONAL AREA, PHASE 1 — PROJECT NO.: 34896

FACILITY CODE: MND21 — LOG DATE: 6/21/94

LOCATION ID: B02 — LOCATION TYPE: BH

LOGGER CODE: SAIC — FIELD REP: G. LODER

FLAME IONIZATION DETECTOR INSTRUMENT:

MANUFACTURER: FOXBORO — MODEL NO.: 128

SERIAL NO.: 3154

DATE/TIME CALIBRATION 6/21/94 0740 — ACCEPTANCE CODE: A

CALIBRATION GASES			
TYPE/CYLINDER ID NO.		CONCENTRATION (PPM)	
1	LOT 39562	1	NA
2	NA	2	NA

COMMENTS:

TIME (HH:MM)	SAMPLE ID	OBSERVED READING (ppm)					DRILLING DEPTH (ft)	COMMENTS
		DH	HS	BZ	D	OT		
1340	B02001	0	NA	0	NA	NA	0-2'	NONE
1450	B02002	0	NA	0	NA	NA	5-7'	NONE
				LAST	ENTRY			

ACCEPTANCE CODES: A - ACCEPTABLE, R - RECONNAISSANCE, U - UNACCEPTABLE, N - NOT DETERMINED

LOCATION TYPES:		OBSERVED READING:	
BH - BOREHOLES	SB - SAMPLE BOTTLE	DH - DOWNHOLE	BZ - BREATHING ZONE
TP - TEST PIT	L - SURFACE LOCATION	HS - HEADSPACE	D - DURING DRILLING (BZ)
SS - SOIL SAMPLE	WL - WELL		OT - OTHER
	OT - OTHER (EXPLAIN)		

COMPLETE BOLDED DATA FOR ENTRY INTO TIMS

FORM COMPLETED BY / DATE: 6/21/94

TECHNICAL REVIEWER / DATE: 7/7/94

BOREHOLE OR WELL PLUGGING / ABANDONMENT — SOIL BORING

BØ2 P139

PROJECT: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 — PROJECT NO: 34896

SITE ID NUMBER: BØ2 DATE PLUGGED 6 / 21 / 94

SITE COORDINATES: N: NA E: NA DEPTH BLS (ft) 7.5

TYPE OF CASING: NA

CASING DIAMETER (ID) (in.) NA GROUND ELEVATION (ft msl) NA

SCREENED ELEVATION (ft msl) NA

GEOLOGIC MATERIAL AT SCREEN NA

AMOUNT OF CASING REMOVED (ft) NA

PLUGGING MATERIAL BENTONITE GROUT

APPROX. VOLUME OF PLUGGING MATERIAL (cu ft.) 6/21/94 ~~32~~ 2.6

PLUGGING METHOD TREMIED THROUGH AUGERS

REMARKS NONE

RECORDED BY: [signature] (Signature) QA CHECKED BY: [signature] 7/7/94 (Signature)

B02
P141

SOLID MATRICES

SOIL
- [01] Surface (0-6 inches)
- [02] Subsurface (>6 inches)
- [09] Other

SEDIMENT / SLUDGES
- [11] Lake/Pond
- [12] River/Stream
- [13] Impoundment/Pond
- [14] Drum/Tank
- [19] Other

AIR SAMPLE
- [21] Filter
- [22] Sorbent
- [23] Sweepings/Fugitive Dust
- [24] Gases
- [29] Other

BIOLOGICAL/TERRESTRIAL
- [31] Biota
- [39] Other

GEO-TECHNICAL
- [41] Retained on #40
- [42] Retained on #200
- [43] Passed through #200
- [49] Other

LIQUID MATRICES

SURFACE WATER
- [51] Lake/Pond
- [52] River/Stream
- [53] Impoundment/Pond
- [54] Discharge
- [55] Spring/Seep
- [59] Other

GROUND WATER
- [61] Abandoned Well
- [62] Extraction Well
- [63] Injection Well
- [64] Irrigation Well
- [65] Lysimeter
- [66] Monitoring Well
- [67] Observation Well
- [68] Piezometer
- [69] Other
- [6A] Public Water Supply
- [6B] Purge Well
- [6C] Test Well
- [6D] Vapor Well
- [6E] Leachate Well

CONTAINERIZED

SEALED	UNSEALED
[71] Drum/Tank	[81] Drum/Tank
[79] Other	[89] Other

SAMPLE LOG SHEET

B02
P144

PROJECT NAME: Mound Operational Area **PROJECT NO:** 2680

SAMPLE ID NUMBER: B02001 DATE COLLECTED (MM/DD/YY): 6/21/94 TIME (HH:MM): 1340

SAMPLING -

LOCATION CODE: MNDOA

DESCRIPTION: MOUND OPERATIONAL AREA

POINT CODE: B02

DESCRIPTION: OPERAIONAL AREA BORING #2

SAMPLE -

MEDIA CODE: 01

DESCRIPTION: Soil Surface (0 - 6 Inches)

DEPTH 0.00 TO ~~5.00~~ 2.00 FT

gd 6/21/94

SAMPLE TYPE:

- [x] GRAB
- [ ] TIME COMPOSITE
- [ ] QC RINSATE
- [ ] OTHER (SPECIFY)
- [ ] SPATIAL COMPOSITE
- [ ] QC TRIP BLANK
- [ ] QC FIELD BLANK

FIELD OBSERVATIONS: NONE

SAMPLE COLLECTED: [x] YES [ ] NO

SAP SAMPLING PROCEDURE WAS FOLLOWED: [x] YES [ ] NO FIELD CHANGE ORDER REFERENCE NO: N/A

IF SAP WAS NOT FOLLOWED, SPECIFY WHAT DEVIATIONS WERE NECESSARY AND WHY (INCLUDE FIELD CHANGE ORDER REFERENCE NO.):

N/A

RECORDED BY: (SIGNATURE) QC CHECKED BY: 7/7/94

(SIGNATURE)

SAMPLE ID NUMBER: BØ2ØØ1 B02 P145

CONTAINER VOLUME (ml)	CONTAINER TYPE	METHOD NAME AND NUMBER ANALYSIS	PRESERVATIVES (TYPE/VOL)	C-O-C #	AIR BILL #	CONTAINER LOT #	LABORATORY
1-12Ø	WM Glass	CLPVOA	Cool,4C	OACØØ2	8219959451	SEE CONTAINER LOT # LOG	COMPUC
1-25Ø	AmbGlass	SVOC,PEST/PCB	Cool,4C				COMPUC
1-25Ø	AmbGlass	EXPLOSIVES	Cool,4C				COMPUC
3-25Ø	WM Glass	ANIONS Fl,SO4,Cl,NØ2/NØ3	Cool,4C				COMPUC
1-25Ø	WM Glass	METALS,Cyanide	Cool,4C				COMPUC
1-12Ø	Poly	LANTHANIDES	Cool,4C				COMPUC
1-12Ø	AmbGlass	TOTAL ORGANIC CARBON	Cool,4C				COMPUC
2-25Ø	WM GLASS	RADS Ac,Sr,H3,GAMMA	NONE				COMPUC
2-25Ø	WM GLASS	RADS Pu,Th,U	NONE				COMPUC
		LAST ENTRY					

GA 6/21/94

SAMPLE ID'S RINSATE: ERØØØ1 TRIP BLANK: TBAØØ2 FIELD BLANK: ABØØØ1 FIELD DUPLICATE: NØ

RECORDED BY: (SIGNATURE) QA CHECKED BY: 7/7/94 (SIGNATURE)

SAMPLE LOG SHEET

PROJECT NAME: Mound Operational Area **PROJECT NO:** 2680 B02 P146

SAMPLE ID NUMBER: B02002 DATE COLLECTED (MM/DD/YY): 6/21/94 TIME (HH:MM): 1450

SAMPLING -

LOCATION CODE: MNDOA

DESCRIPTION: MOUND OPERATIONAL AREA

POINT CODE: B02

DESCRIPTION: OPERAIONAL AREA BORING #2

SAMPLE -

MEDIA CODE: 02

DESCRIPTION: Soil Subsurface (>6 Inches)

DEPTH 5.00 TO 7.00 FT

SAMPLE TYPE:

- [X] GRAB
- [ ] TIME COMPOSITE
- [ ] QC RINSATE
- [ ] OTHER (SPECIFY)
- [ ] SPATIAL COMPOSITE
- [ ] QC TRIP BLANK
- [ ] QC FIELD BLANK

FIELD OBSERVATIONS: NONE

SAMPLE COLLECTED: [X] YES [ ] NO

SAP SAMPLING PROCEDURE WAS FOLLOWED: [X] YES [ ] NO FIELD CHANGE ORDER REFERENCE NO: NA

IF SAP WAS NOT FOLLOWED, SPECIFY WHAT DEVIATIONS WERE NECESSARY AND WHY (INCLUDE FIELD CHANGE ORDER REFERENCE NO.):

NA

RECORDED BY: [illegible] (SIGNATURE) [illegible] TO [illegible] CKED BY [illegible]

CHECKED BY: [signature] 7/7/94 (SIGNATURE)

SAMPLE LOG SHEET

SAMPLE ID NUMBER: B02002

B02 P47

CONTAINER VOLUME (ml)	CONTAINER TYPE	METHOD NAME AND NUMBER ANALYSIS	PRESERVATIVES (TYPE/VOL)	C-O-C #	AIR BILL #	CONTAINER LOT #	LABORATORY
1-120	WM Glass	CLPVOA	Cool,4C	OACØØ2	821995945 1	SEE CONTAINER LOT # LOG	COMPUC
1-250	AmbGlass	SVOC,PEST/PCB	Cool,4C				COMPUC
1-250	AmbGlass	EXPLOSIVES	Cool,4C				COMPUC
3-250	WM Glass	ANIONS Fl,SO4,Cl,NØ2/NØ3	Cool,4C				COMPUC
1-250	WM Glass	METALS,Cyanide	Cool,4C				COMPUC
1-120	Poly	LANTHANIDES	Cool,4C				COMPUC
1-120	AmbGlass	TOTAL ORGANIC CARBON	Cool,4C				COMPUC
2-250	WM GLASS	RADS Ac,Sr,H3,GAMMA	NONE				COMPUC
2-250	WM GLASS	RADS Pu,Th,U	NONE				COMPUC
		LAST ENTRY					

QC 6/21/94

SAMPLE ID'S RINSATE: ER0002 TRIP BLANK: TB0002 FIELD BLANK: AB0001 FIELD DUPLICATE: NA

RECORDED BY: [signature] (SIGNATURE) QA CHECKED BY: [signature] 7/7/94 (SIGNATURE)

TASK TEAM ACTIVITY LOG SHEET

SOIL BORING B03 P215

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1

TASK NO.: 34896

Date (mm/dd/yy): 6/23/94 TIME: 0810 PAGE 1 OF 2

Task Team Members:

GREG LODER (SAIC)
JEFF DEVAUGHN (SAIC)
DENNIS SINK (BM)
DWIGHT WORK (BM)
JEFF TACKETT (MOUND HP)

Narrative (include time and location):

0810 ARRIVE ON SITE BEGIN SETTING UP
0825 JOYCE ARRIVES WITH PERMIT
0830 NEW HP ARRIVES JEFF TACKETT
0845 BEGIN DRILLING AUGER DOWN 2' AND COLLECT SOIL INTO BOWL BOREHOLE LOCATED IN PARKING LOT 50' EAST OF BLDG 29
0855 TAKE B03001 WITH SPOON AND BOWL OVA=0PPM LEL=0
0903 PULL SPOON FROM 2'-4' OVA=0 PPM LEL=0
0908 TAKE B03002. OVA=0 PPM LEL=0
0925 PULL SECOND SPOON FOR B03002
0930 DRILL DOWN TO 6'
0937 PULL SPOON FROM 6-8 6-7' INTERVAL USED FOR B03002 OVA=0 PPM LEL=0
0946 DRILL TO 8'
0956 PULL SPOON FROM 8-10' LOOKS LIKE WE HAVE PLUG MATERIAL WE WILL TRY ANOTHER SPLIT SPOON OVA=0 PPM LEL=0
1000 ~~1008~~ SECOND SPOON PULL FOR 8-10
GG 6/23/94

Daily Weather Conditions: A.M. 75°F HUMID OVERCAST

P.M. NA

Recorded By [signature] QA Checked By [signature] 7-9/94

TASK TEAM ACTIVITY LOG SHEET

SOIL BORING B03 PZ16

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1

TASK NO.: 34896

Date (mm/dd/yy): 6/23/94 TIME: AM PAGE 2 OF 2

Task Team Members:

SEE PAGE 215

Narrative (include time and location):

1005 TAKE B03003 OVA = 0 PPM LEL = 0
1019 SECOND SPOON FOR B03003
1023 POOR RECOVERY IN SECOND SPOON WE WILL AUGER DOWN ONE FOOT EXTENDING SAMPLE INTERVAL TO 10-13'.
1035 PULL THIRD SPOON FOR B03003
1041 DRILL DOWN TO 13' FOR 13'-15' INTERVAL. WE WILL NEED TO RETAIN SOME OF THIS TO COMPLETE B03003 PULL SPOON FROM 13-15'. OVA = 0 PPM LEL = 0
1054 DRILL TO 15'
1100 TAKE B03004 OVA = 0 PPM, LEL = 0
1110 SECOND SPOON FOR B03004, EMPTY
1117 DRILLED TO 17' PULLED SPOON FOR 17'-19' TO BE USED IN B03004. ENCOUNTERED WATER @ 17.5' OVA GOT A RESPONSE BUT MAY NOT BE OPERATING PROPERLY, LEL = 0
1130 DECIDE TO TAKE LUNCH LET WATER EQUILIBRATE
1245 LIGHTNING ALERT ISSUED BY MOUND

LAST ENTRY

Daily Weather Conditions: A.M. 88°F HUMID OVERCAST

P.M. NA

Recorded By [signature] QA Checked By [signature] 7-9-94

TASK TEAM ACTIVITY LOG SHEET

SOIL BORING B03 P 217

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1

TASK NO.: 34896

Date (mm/dd/yy): 6/27/94 TIME: 0820 PAGE 1 OF 3

Task Team Members:

GREG LOVER SAIC — DENNIS SINK BM

JEFF DEVAUGHN SAIC — DWIGHT WORK BM

Narrative (include time and location):

0820 ARRIVE ON-SITE @ B03 TO COMPLETE BOREHOLE

0850 INTERFACE PROBE GAVE CONSTANT ALARM FIRST TIME DOWN HOLE INDICATING FLOATING HYDROCARBON HOWEVER SUBSEQUENT ATTEMPTS ARE NEGATIVE WATER @ 17.0' T.D. ALSO 17.0' INDICATING THAT WE HAVE CAVE-IN OVA = Ø PPM LEL = Ø

0925 PULL SPOON FROM 18'-20' OVA = Ø PPM LEL = Ø INTERFACE PROBE AGAIN INDICATES PRESENCE OF A FLOATING HYDROCARBON THIS COMPLETES B03ØØ4

0940 TD = 20.4' WATER @ 17.3'

1010 BEGIN PURGING WITH DISPOSABLE BAILER

PURGE VOLUME = $\pi \frac{d^2}{4} \times h \times 7.48$

d = 2" = .167'

$= \pi \frac{(0.167)^2}{4} \times (20.4 - 17.3) \times 7.48$

3.1

[NOTE: DAILY LOG CONT'D P 220]

8/2/94

= ~~8.2~~ GALLONS .51 GAL

1019 pH = 6.91 D.O. = 1.62 mg/l TEMP = 14.1 °C COND = 186 @ 3 GALLONS

Daily Weather Conditions: A.M. 70°F OVERCAST

P.M. NA

Recorded By [signature] QA Checked By [signature] 7-9-94

TASK TEAM ACTIVITY LOG SHEET

SOIL BORING B03P220

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1

TASK NO.: 34896

Date (mm/dd/yy): 6/27/94 TIME: NA PAGE 2 OF 3

Task Team Members:

SEE PAGE 217

Narrative (include time and location):

1029 pH = 7.27 TEMP = 13.9 °c COND = 198
DO = 2.36 mg/l @ 7 GALLONS
1043 pH = 7.44 TEMP = 13.8 °c COND = 208
DO = 1.89 mg/l @ 8 GALLONS
1055 pH = 7.49 TEMP = 13.8 °c COND = 207
DO = 1.96 mg/l @ 9 GALLONS
1108 pH = 7.53 TEMP = 13.8 °c COND = 202
DO = 2.31 mg/l @ 10 GAL.
1115 BEGIN TAKING W03001
1159 pH = 7.94 TEMP = 13.9 °c COND = 268
DO = 2.82 mg/l POST SAMPLING PARAMETERS.
SAMPLE RETAINED FOR ALKALINITY. WATER @ 17.4'
1210 BREAK FOR LUNCH
1330 BACK FROM LUNCH POUND SPOON FOR 20'-22'
INTERVAL
1333 TAKE B03005 OVA = 0 PPM LEL = 0
1342 DRILL TO 22'
1350 PULL SPOON FROM 22-24, CLEAN GRAVEL LOOKS

Daily Weather Conditions: A.M. NA

P.M. OVERCAST 85°F

Recorded By [signature] QA Checked By [signature] 7-8-94

TASK TEAM ACTIVITY LOG SHEET

SOIL BORING B03 PZ21

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1

TASK NO. 34896

Date (mm/dd/yy): 6/27/94 TIME: N/A PAGE 3 OF 3

Task Team Members:

SEE PAGE 217

Narrative (include time and location):

LIKE WE ARE GOING TO HAVE TO SKIP SAMPLE FROM THIS INTERVAL (20'-25') DUE TO LACK OF FINES

1402 PULL SPOON FROM 24-26 FOR B03005 OVA=0PPM LEL=0

1415 PULL SPOON FROM 26-28 FOR B03005 OVA=0 PPM LEL=0

1420 TALKED TO JOHN DAVIS HE INDICATED THAT WE SHOULD CONTINUE TO 45' FOR GEOLOGIC DESCRIPTION

1530 AFTER PULLING SPOON FROM 34-36' OVA = 8 PPM LEL=0 PUT METHANE TIP ON OVA BUT STILL GOT 8 PPM

1548 BENZENE AND VINYL CHLORIDE DRAEGER TUBES, NEGATIVE. TOOK VOA SAMPLE IN 125 ml JAR

1400 SECURE RIG AND EXCLUSION ZONE AND LEAVE SITE

TNA FOR AIR MONITOR = 1.54

LAST ENTRY

Daily Weather Conditions: A.M. N/A

P.M. SUNNY 90°F

Recorded By [signature] QA Checked By [signature] 7/9/94

TASK TEAM ACTIVITY LOG SHEET

SOIL BORING B03 P222

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1

TASK NO.: 34896

Date (mm/dd/yy): 6/28/94 TIME: 0730 PAGE 1 OF 1

Task Team Members:

GREG LODER	SAIC	DENNIS SUNK	BM
JEFF DEVAUGHN	SAIC	DWIGHT WORK	BM

Narrative (include time and location):

0730 BACK ON SITE. GARY (HP) ON SITE

0745 DRILLERS ARRIVE

0750 REMOVE SPINDLE FROM STRING AND GET INSTRUMENT READINGS OVA = Ø PPM LEL = Ø. CONTINUE GEOLOGIC CORING

0800 PULL SPOON FROM 36'-38' OVA = Ø PPM LEL = Ø

0817 PULL SPOON FROM 38'-40' OVA = 8-10 PPM LEL = 10% LEL AT OSHA ACTION LEVEL. GOT JOHN AND KEITH MACNAMARA ON SITE TO DISCUSS COURSE OF ACTION. TOOK VOA SAMPLE B03ØØ7

0858 ALEX BRAY ON-SITE. DECISION IS TO STOP BORING AND GROUT THE HOLE

LAST ENTRY

Daily Weather Conditions: A.M. 70°F SCATTERED SHOWERS

P.M. NA

Recorded By [signature] QA Checked By [signature] 7-9-94

BOREHOLE LOG (SOIL)

SOIL BORING B03 P225

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1

PROJECT NO: 34896

FACILITY CODE: MND21

LOCATION ID: B03

COORDINATES (FT):

NORTH NA EAST NA

GROUND ELEVATION (FT MSL) NA

LOCATION TYPE: BH

COMMENTS: NONE

DRILLER CODE: BOWS

COMPLETION DATE 6/28/1994

DIAMETER (IN): 8"

DEPTH (FTFD): 40'

CONSTRUCTION METHOD: B

ACCEPTANCE CODE: A

GROUNDWATER LEVELS

DATE	TIME	DEPTH (FT)
6/23/94	1117	17.5
6/27/94	0830	17.0
6/27/94	0940	17.3
6/27/94	1159	17.4

LOCATION DESCRIPTION

IN PARKING LOT 50' EAST OF BLDG 29

LITHOLOGIC LOG

LOGGER CODE: SAIC

DEPTH (FT)	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE RETAINED	SAMPLE METHOD	SAMPLE ID	BLOW COUNT (PER 6 IN)	N VALUE	USCS 7/11/94	VISUAL DESCRIPTIONS
0	0-2	BOWL	FULL	O	B03A01	NA	NA	GE	SILT, COASE SAND, AND GRAVEL
								GM	DRY, LOOSE
									10YR 3/2 VERY DARK GREYISH BROWN
									COLLECTED IN BOWL
2.5	2-4	1.3	0	U	NA	12/13/16/11	27	GM	2-2.5 SILT, COASE, SAND, GRAVEL
4 6/28/94								ML	2.5-4 SILT AND CLAY, SOME
									COASE SAND, TRACE GRAVEL
									MOIST SOFT PLASTIC
									10YR 4/3 BROWN

ACCEPTANCE CODES: A - ACCEPTABLE, R - RECONNAISSANCE, U - UNACCEPTABLE, N - NOT DETERMINED

CONSTRUCTION METHODS:

A - AIR ROTARY
B - BORED OR AUGERED
C - CABLE - TOOL
D - DUG
H - HYDRAULIC - ROTORY
J - JETTED
P - AIR - PERCUSSION
R - REVERSE ROTERY
T - TRENCHING
V - DRIVEN
W - DRIVE AND WASH
Z - OTHER (SPECIFY)

SAMPLE METHODS:

A - AUGER CUTTINGS
S - 2" O.D. 1.38" I.D. DRIVE SAMPLES
U - 3" O.D. 2.42" I.D. TUBE SAMPLES
T - 3" O.D. THIN-WALLED SHELBY TUBE
O - OTHER (SPECIFY)

COMPLETE BOLDED DATA FOR ENTRY INTO TIMS

6/23/94 FORM COMPLETED BY / DATE

7/9/94 TECHNICAL REVIEWER / DATE

BOREHOLE LOG (SOIL)

SOIL

B03 PZ26

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1

PROJECT NO.

FACILITY CODE: MND21

LOCATION ID: B03

DRILLER CODE: BOWS

COMPLETION DATE 6/28/1994

LITHOLOGIC LOG

DEPTH (FT)	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE RETAINED	SAMPLE METHOD	SAMPLE ID	BLOW COUNT (PER 6 IN)	N VALUE	USCS	VISUAL DESCRIPTIONS
5	4-6	2.0	1.9	U	B03002	18/16/10/11	21	CL	4-5 SILT AND CLAY SOME
	SECOND SPOON	0.6	0.3	U	"	NA	NA		COARSE SAND TRACE GRAVEL
									10YR 4/3 BROWN NOT SAMPLED
								CL	5-6 CLAY TRACE FINE SAND
									FIRM, MOTTLED, MOIST
									SLIGHTLY PLASTIC
									10YR 5/3 BROWN
									USED FOR SAMPLE
8	6-7	0.7	0.5	U	B03002	14/16/14/26	40	CL	CLAY, DRY FIRM NONPLASTIC
	~~SECOND SPOON~~								BEGINNINGS OF LAMINATION
	AL 6/23/94								5GY 6/1 GREENISH GREY
10	8-10	0.5	0	U	ND	27/54/27/39	66	GC	CLAY LIMESTONE COBBLE
									DRY FIRM LAMINATED
									5GY 6/1 GREENISH GREY
13	13 AL 6/24/94 10-12	1.0	1.0	U	B03003	27/12/12/12	24	GC	CLAY LIMESTONE GRAVEL
AL 6/24/94	SECOND SPOON	0.3	0.3	U	"	NA	NA		MOIST SOFT PLASTIC
	THIRD SPOON	0.6	0.6	U	"	NA	NA		5GY 6/1 GREENISH GREY
15	13-15	0.8	0	U	NA	13/11/10/15	25	GC	CLAY LIMESTONE GRAVEL
									DRY SLIGHTLY PLASTIC FIRM
									5GY 6/1 GREENISH GREY

COMPLETE BOLDED DATA FOR ENTRY INTO TIMS

6/25/94

FORM COMPLETED BY / DATE

7/9/94

TECHNICAL REVIEWER

BOREHOLE LOG (SOIL)

SOIL BORING B03 PZ27

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1

PROJECT NO: 34896

FACILITY CODE: MND21

DRILLER CODE: BOWS

LOCATION ID: B03

COMPLETION DATE 6/28/1994

LITHOLOGIC LOG

DEPTH (FT)	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE RETAINED	SAMPLE METHOD	SAMPLE ID	BLOW COUNT (PER 6 IN)	N VALUE	USCS	VISUAL DESCRIPTIONS
17	15-17	0.6	0.6	U	B03A064	24/15/14/12	26	GC	CLAY AND LIMESTONE
6/27/94	SCRAP SPOON	0	0	U	"				FRAGMENTS MOIST SOFT
									PLASTIC 5 GY 6/1 GREENISH
									GREY
19	17-19	0.3	0.3	U	B03A064	11/21/13/22	35	GC	GRAVEL WITH CLAY FINES
									SATURATED
									WATER @ 17.5'
	20-22	0.4	0.4	U	B03A065	10/25/11/12	23	GC	GRAVEL, COARSE SAND AND
									CLAY. SATURATED
	22-24	0.3	0	U	—	10/14/25/35	60	GW	GRAVEL NO FINES UP
									TO 40 MM LIMESTONE
24	24-26	1.8	1.8	U	B03A065	12/10/17/14	31	CL	CLAY, SOME COARSE SAND
									TRACE GRAVEL. FIRM
									PLASTIC 6/5/3/94 DAMP
									10/4R 4/6 DARK YELLOWISH BROWN
	26-28	0.6	0	U	—	16/21/20/19	49	CL	CLAY SOME COARSE SAND
									TRACE GRAVEL FIRM DAMP
									PLASTIC 10/4R/4/6 DARK
									YELLOWISH BROWN
	28-30	1.4	0	U	—	21/17/26/25	51	CL	SAME AS ABOVE

MPLETE BOLDED DATA FOR ENTRY INTO TIMS

6/23/94 — FORM COMPLETED BY / DATE

7/11/94 — TECHNICAL REVIEWER /

BOREHOLE LOG (SOIL)

SOIL BORI...

B03 p 228

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1

PROJECT NO: 34...

FACILITY CODE: MND21

DRILLER CODE: BOWS

LOCATION ID: B03

COMPLETION DATE 6/28/1994

LITHOLOGIC LOG

DEPTH (FT)	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE RETAINED	SAMPLE METHOD	SAMPLE ID	BLOW COUNT (PER 6 IN)	N VALUE	USCS	VISUAL DESCRIPTIONS
	30-32	1.1	Ø	U	—	20/16/39/38	77	CL	CLAY SOME COARSE SAND
									TRACE GRAVEL VERY FIRM
									MOIST PLASTIC 10 YR 4/6
									DARK YELLOWISH BROWN
33	32-34	1.9	Ø	U	—	29/28/31/30	61	CL	32'-33' SAME AS ABOVE
								CL	33'-34' CLAY TRACE COARSE
									SAND TRACE GRAVEL VERY
									FIRM - MOIST PLASTIC
									N/4 DARK GREY
	34-36	1.9	0.1	U	B03086	17/31/42/44	86	CL	SAME AS ABOVE OVA = 8 PPM
									TOOK VOA SAMPLE
	36-38	2.0	Ø	U	—	31/36/41/49	90	CL	SAME AS ABOVE
	38-40	0.8	Ø	U	B03087	37/41/30/41	71	CL	SAME AS ABOVE. MORE
									FIRM OVA = 8-10 PPM
									LEL = 10% TOOK VOA SAMPLE
					LAST ENTRY				

COMPLETE BOLDED DATA FOR ENTRY INTO TIMS

6/29/94 — FORM COMPLETED BY / DATE

7/11/94 — TECHNICAL REVIEWER / DATE

COMBUSTIBLE GAS INDICATOR (CGI) MONITORING DATA — SOIL BORING B03 P241

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 — PROJECT NO: 34896

FACILITY CODE: MND21 — LOG DATE: 6/23/94 6/27/94, 6/28/94

LOGGER CODE: SAIC — FIELD REP: G. CODER

CGI MANUFACTURER: INDUSTRIAL SCIENTIFIC — CGI MODEL NO.: MX251

SERIAL NO.: 7484 — CALIBRATION DATE/TIME: 6/23/94 0730

ACCEPTANCE CODE: A — BATTERY CONDITION GOOD

CALIBRATION GAS (%LEL) TYPE PENTANE CONCENTRATION 50 % LEL CYLINDER SERIAL NO 39525

CALIBRATION GAS (PPM) TYPE NA CONCENTRATION NA PPM CYLINDER SERIAL NO NA

COMMENTS: NONE

LOCATION ID OR DESCRIPTION	COORDINATES FT NORTH	COORDINATES FT EAST	MONITORING TIME (HH:MM)	LOCATION TYPE	% LOWER EXPLOSIVE LIMIT	PPM	% OXYGEN
B03 6/23/94	NA	NA	~~0850~~ 0855	BH	0	NA	21
			0903	BH	0		21
			0908	BH	0		21
			0937	BH	0		21
			0950	BH	0		21
			1005	BH	0		21
			1041	BH	0		21
			1103	BH	0		21
			1117	BH	0		21
6/27 ~~6/28~~			0830	BH	0	NA	21
			0925	BH	0		21
			1333	BH	0		21
			1402	BH	0		21
			1415	BH	0		21
			1530	BH	0		21

ACCEPTANCE CODES: A - ACCEPTABLE, R - RECONNAISSANCE, U - UNACCEPTABLE, N - NOT DETERMINED

LOCATION TYPES: BH - BOREHOLE SL - SURFACE LOCATION TP - TEST PIT WL - WELL

COMPLETE BOLDED DATA FOR ENTRY INTO TIMS

6/23/94 FORM COMPLETED BY / DATE

7/11/94 TECHNICAL REVIEWER / DATE

COMBUSTIBLE GAS INDICATOR (CGI) MONITORING DATA

SOIL BORING: B03 P242

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1

PROJECT NO: 3048

FACILITY CODE: MND21

LOG DATE: 6/28/94

LOGGER CODE: SAIC

FIELD REP: GL G. LOPER

CGI MANUFACTURER: INDUSTRIAL SCIENTIFIC

CGI MODEL NO.: MX251

SERIAL NO.: 7484

CALIBRATION DATE/TIME: 6/28/94 0700

ACCEPTANCE CODE: A

BATTERY CONDITION GOOD

CALIBRATION GAS (%LEL)

TYPE PENTANE CONCENTRATION 50 % LEL CYLINDER SERIAL NO 39525

CALIBRATION GAS (PPM)

TYPE NA CONCENTRATION NA PPM CYLINDER SERIAL NO NA

COMMENTS: NONE

LOCATION ID OR DESCRIPTION	COORDINATES FT NORTH	COORDINATES FT EAST	MONITORING TIME (HH:MM)	LOCATION TYPE	% LOWER EXPLOSIVE LIMIT	PPM	% OXYGEN
B03	NA	NA	0750	BH	Ø	NA	21
↓	↓	↓	0800	↓	Ø	↓	21
↓	↓	↓	0817	↓	Ø	↓	20
			Last Entry				

ACCEPTANCE CODES: A - ACCEPTABLE, R - RECONNAISSANCE, U - UNACCEPTABLE, N - NOT DETERMINED

LOCATION TYPES: BH - BOREHOLE SL - SURFACE LOCATION TP - TEST PIT WL - WELL

COMPLETE BOLDED DATA FOR ENTRY INTO TIMS

6/28/94 FORM COMPLETED BY / DATE

7/11/94 TECHNICAL REVIEWER / DATE

FLAME IONIZATION DETECTOR FIELD DATA

SOIL BORING: B03 P243

ROJECT NAME: EG&G MOUND OU5 OPERAIONAL AREA, PHASE 1 PROJECT NO: 34896

ACILITY CODE: MND21 LOG DATE: 6/23/94, 6/27, ~~6/28~~ GL

OCATION ID B03 LOCATION TYPE: BH

OGGER CODE: SAIC FIELD REP: GL G. LODER

AME IONIZATION DETECTOR INSTRUMENT:

MANUFACTURER: FOXBORO MODEL NO.: 128 GC

SERIAL NO.: 50289

DATE/TIME CALIBRATION 6/23/94 0830 ACCEPTANCE CODE: A

CALIBRATION GASES			
TYPE/CYLINDER ID NO.		CONCENTRATION (PPM)	
1	39562	1	100
2	NA	2	NA

OMMENTS

TIME (HH:MM)	SAMPLE ID	OBSERVED READING (ppm) DH	HS	BZ	D	OT	DRILLING DEPTH (ft)	COMMENTS
0855	B03001	0	NR	NR	NR	NA	2	NONE
0903	NA	0					4	
0908	B03002	0					6	
0937	B03002	0					8	
0950	NA	0					10	
1005	B03003	0					12	
1041	B03003	0					13	
1103	B03004	0					GL 4/23/94 ~~18~~ 17	
1117	B03004	NR					19	MAY NOT BE OPERATING CORRECTLY
0830		0					GL 6/27/94 ~~22~~ 17	NONE
0925		0					GL 6/27/94 ~~24~~ 20	
1333	B03005	0					22	
1402		0					26	
1415		0					28	
1530	NA	8					36	

ACCEPTANCE CODES: A - ACCEPTABLE, R - RECONNAISSANCE, U - UNACCEPTABLE, N - NOT DETERMINED

LOCATION TYPES:
BH - BOREHOLES
TP - TEST PIT
SS - SOIL SAMPLE
SB - SAMPLE BOTTLE
L - SURFACE LOCATION
WL - WELL
OT - OTHER (EXPLAIN)

OBSERVED READING:
DH - DOWNHOLE
HS - HEADSPACE
BZ - BREATHING ZONE
D - DURING DRILLING (BZ)
OT - OTHER

COMPLETE BOLDED DATA FOR ENTRY INTO TIMS

6/23/94
FORM COMPLETED BY / DATE

7/11/94
TECHNICAL REVIEWER / DATE

FLAME IONIZATION DETECTOR FIELD DATA

SOIL BOR

B03 P294

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1

PROJECT NO: 34

FACILITY CODE: MND21

LOG DATE: 6/28/94

LOCATION ID B03

LOCATION TYPE BH

LOGGER CODE: SAIC

FIELD REP: GL G. LODER

FLAME IONIZATION DETECTOR INSTRUMENT:

MANUFACTURER: FOXBORO

MODEL NO.: 128

SERIAL NO.: 50289

DATE/TIME CALIBRATION 6/28/94, 900

ACCEPTANCE CODE: A

CALIBRATION GASES			
TYPE/CYLINDER ID NO.		CONCENTRATION (PPM)	
1	39562	1	100
2	NA	2	NA

COMMENTS

TIME (HH:MM)	SAMPLE ID	OBSERVED READING (ppm)					DRILLING DEPTH (ft)	COMMENTS
		DH	HS	BZ	D	OT		
0750	NA	Ø	NR	NR	NR	NR	36	NONE
0800	NA	Ø					38	
0817	B03B07	8-10					40	
				LAST ENTRY				

ACCEPTANCE CODES: A - ACCEPTABLE, R - RECONNAISSANCE, U - UNACCEPTABLE, N - NOT DETERMINED

LOCATION TYPES:	SB - SAMPLE BOTTLE	OBSERVED READING:	
BH - BOREHOLES	L - SURFACE LOCATION	DH - DOWNHOLE	BZ - BREATHING ZONE
TP - TEST PIT	WL - WELL	HS - HEADSPACE	D - DURING DRILLING (BZ)
SS - SOIL SAMPLE	OT - OTHER (EXPLAIN)		OT - OTHER

COMPLETE BOLDED DATA FOR ENTRY INTO TIMS

6/28/94

FORM COMPLETED BY / DATE

7/11/94

TECHNICAL REVIEWER

BOREHOLE OR WELL PLUGGING / ABANDONMENT — SOIL BORING

B03 P245

PROJECT: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 — PROJECT NO.: 34896

SITE ID NUMBER: B03 DATE PLUGGED 6 / 28 / 94

SITE COORDINATES: N: NA E: NA DEPTH BLS (ft) 40.0'

TYPE OF CASING: NA

CASING DIAMETER (ID) (in.) NA GROUND ELEVATION (ft msl) NA

SCREENED ELEVATION (ft msl) NA

GEOLOGIC MATERIAL AT SCREEN NA

AMOUNT OF CASING REMOVED (ft) NA

PLUGGING MATERIAL BENTONITE GROUT

APPROX. VOLUME OF PLUGGING MATERIAL (cu ft.) 14.0

PLUGGING METHOD TREMIED THROUGH AUGERS

REMARKS NONE

LAST ENTRY

RECORDED BY: [signature] (Signature) QA CHECKED BY: [signature] 7/11/94 (Signature)

B03
P 247

SOLID MATRICES

SOIL
- [01] Surface (0-6 inches)
- [02] Subsurface (>6 inches)
- [09] Other

SEDIMENT / SLUDGES
- [11] Lake/Pond
- [12] River/Stream
- [13] Impoundment/Pond
- [14] Drum/Tank
- [19] Other

AIR SAMPLE
- [21] Filter
- [22] Sorbent
- [23] Sweepings/Fugitive Dust
- [24] Gases
- [29] Other

BIOLOGICAL/TERRESTRIAL
- [31] Biota
- [39] Other

GEO-TECHNICAL
- [41] Retained on #40
- [42] Retained on #200
- [43] Passed through #200
- [49] Other

LIQUID MATRICES

SURFACE WATER
- [51] Lake/Pond
- [52] River/Stream
- [53] Impoundment/Pond
- [54] Discharge
- [55] Spring/Seep
- [59] Other

GROUND WATER
- [61] Abandoned Well
- [62] Extraction Well
- [63] Injection Well
- [64] Irrigation Well
- [65] Lysimeter
- [66] Monitoring Well
- [67] Observation Well
- [68] Piezometer
- [69] Other
- [6A] Public Water Supply
- [6B] Purge Well
- [6C] Test Well
- [6D] Vapor Well
- [6E] Leachate Well

CONTAINERIZED

SEALED	UNSEALED
[71] Drum/Tank	[81] Drum/Tank
[79] Other	[89] Other

SAMPLE LOG SHEET

PROJECT NAME: Mound Operational Area **PROJECT NO:** 2680 B03 p250

SAMPLE ID NUMBER: B03001 DATE COLLECTED (MM/DD/YY): 6/23/94 TIME (HH:MM): 0855

SAMPLING -

LOCATION CODE: MNDOA

DESCRIPTION: MOUND OPERATIONAL AREA

POINT CODE: B03

DESCRIPTION: OPERAIONAL AREA BORING #3

FIELD OBSERVATIONS: TAKEN WITH SPOON AND BOWL

SAMPLE -

MEDIA CODE: 01

DESCRIPTION: Soil Surface (0 - 6 Inches)

DEPTH 0.00 TO ~~6.00~~ 2.00 FT

JA 6/23/94

SAMPLE TYPE:

- [X] GRAB
- [ ] TIME COMPOSITE
- [ ] QC RINSATE
- [ ] OTHER (SPECIFY)
- [ ] SPATIAL COMPOSITE
- [ ] QC TRIP BLANK
- [ ] QC FIELD BLANK

SAMPLE COLLECTED: [X] YES [ ] NO

SAP SAMPLING PROCEDURE WAS FOLLOWED: [X] YES [ ] NO FIELD CHANGE ORDER REFERENCE NO: NA

IF SAP WAS NOT FOLLOWED, SPECIFY WHAT DEVIATIONS WERE NECESSARY AND WHY (INCLUDE FIELD CHANGE ORDER REFERENCE NO.):

NONE

RECORDED BY: [illegible] (SIGNATURE) QA CHECKED BY: [illegible] 7/11/94 (SIGNATURE)

(SIGNATURE)

SAMPLE LOG SHEET

SAMPLE ID NUMBER: BØ3ØØ1

B03 p 251

CONTAINER VOLUME (ml)	CONTAINER TYPE	METHOD NAME AND NUMBER ANALYSIS	PRESERVATIVES (TYPE/VOL)	C-O-C #	AIR BILL #	CONTAINER LOT #	LABORATORY
1-12Ø	WM Glass	CLPVOA	Cool,4C	OAC004	8219968405	SEE CONTAINER LOT # LOG	COMPUC
1-25Ø	AmbGlass	SVOC,PEST/PCB	Cool,4C				COMPUC
1-25Ø	AmbGlass	EXPLOSIVES	Cool,4C				COMPUC
2 ~~1~~-25Ø	WM Glass	ANIONS Fl,SO4,Cl,NØ2/NØ3	Cool,4C				COMPUC
1-25Ø	WM Glass	METALS,Cyanide	Cool,4C				COMPUC
1-12Ø	Poly	LANTHANIDES	Cool,4C				COMPUC
1-12Ø	AmbGlass	TOTAL ORGANIC CARBON	Cool,4C				COMPUC
2-25Ø	WM GLASS	RADS Ac,Sr,H3,GAMMA	NONE				COMPUC
2-25Ø	WM GLASS	RADS Pu,Th,U	NONE				COMPUC
			LAST ENTRY				

SAMPLE ID'S RINSATE: ER0001 TRIP BLANK: TBA004 FIELD BLANK: AB0001 FIELD DUPLICATE: NA

RECORDED BY: (SIGNATURE) QA CHECKED BY: (SIGNATURE) 7/11/94

SAMPLE LOG SHEET

PROJECT NAME: Mound Operational Area

PROJECT NO: 2680 B03 P252

SAMPLE ID NUMBER: B03002

DATE COLLECTED (MM/DD/YY): 6/23/94

TIME (HH:MM): 0908

SAMPLING -

LOCATION CODE: MNDOA

DESCRIPTION: MOUND OPERATIONAL AREA

POINT CODE: B03

DESCRIPTION: OPERAIONAL AREA BORING #3

SAMPLE -

MEDIA CODE: 02

DESCRIPTION: Soil Subsurface (>6 Inches)

DEPTH 5.00 TO 7.00 FT

SAMPLE TYPE:

- [X] GRAB
- [ ] TIME COMPOSITE
- [ ] QC RINSATE
- [ ] OTHER (SPECIFY)
- [ ] SPATIAL COMPOSITE
- [ ] QC TRIP BLANK
- [ ] QC FIELD BLANK

FIELD OBSERVATIONS: NONE

SAMPLE COLLECTED: [X] YES [ ] NO

SAP SAMPLING PROCEDURE WAS FOLLOWED: [X] YES [ ] NO

FIELD CHANGE ORDER REFERENCE NO: NA

IF SAP WAS NOT FOLLOWED, SPECIFY WHAT DEVIATIONS WERE NECESSARY AND WHY (INCLUDE FIELD CHANGE ORDER REFERENCE NO.):

NA

CHECKED BY: [signature] 7-11-94

(SIGNATURE)

SAMPLE ID NUMBER: B03002

B03 P 253

CONTAINER VOLUME (ml)	CONTAINER TYPE	METHOD NAME AND NUMBER ANALYSIS	PRESERVATIVES (TYPE/VOL)	C-O-C #	AIR BILL #	CONTAINER LOT #	LABORATORY
1-120	WM Glass	CLPVOA	Cool,4C	OAC004	8219960405	SEE CONTAINER LOT # LOG	COMPUC
1-250	AmbGlass	SVOC,PEST/PCB	Cool,4C				COMPUC
1-250	AmbGlass	EXPLOSIVES	Cool,4C				COMPUC
2-250	WM Glass	ANIONS Fl,SO4,Cl,N02/N03	Cool,4C				COMPUC
1-250	WM Glass	METALS,Cyanide	Cool,4C				COMPUC
1-120	Poly	LANTHANIDES	Cool,4C				COMPUC
1-120	AmbGlass	TOTAL ORGANIC CARBON	Cool,4C				COMPUC
2-250	WM GLASS	RADS Ac,Sr,H3,GAMMA	NONE				COMPUC
2-250	WM GLASS	RADS Pu,Th,U	NONE				COMPUC
			LAST ENTRY				

SAMPLE ID'S RINSATE: ER002 TRIP BLANK: TBA004 FIELD BLANK: AB0001 FIELD DUPLICATE: NA

RECORDED BY: _____ (SIGNATURE) QA CHECKED BY: _____ 7/11/94 (SIGNATURE)

SAMPLE LOG SHEET

PROJECT NAME: Mound Operational Area

PROJECT NO: 2680 B03 p 254

SAMPLE ID NUMBER: B03003

DATE COLLECTED (MM/DD/YY): 6/23/94

TIME (HH:MM): 1005

SAMPLING -

LOCATION CODE: MNDOA

DESCRIPTION: MOUND OPERATIONAL AREA

POINT CODE: B03

DESCRIPTION: OPERAIONAL AREA BORING #3

SAMPLE -

MEDIA CODE: 02

DESCRIPTION: Soil Subsurface (>6 Inches)

DEPTH 10.00 TO 13.00 FT

FIELD OBSERVATIONS: GL 6/23/94 ~~HAD TO~~ WIDENED SAMPLE INTERVAL

SAMPLE TYPE:

- [X] GRAB
- [ ] TIME COMPOSITE
- [ ] QC RINSATE
- [ ] OTHER (SPECIFY)
- [ ] SPATIAL COMPOSITE
- [ ] QC TRIP BLANK
- [ ] QC FIELD BLANK

AMPLE COLLECTED: [X] YES [ ] NO

AP SAMPLING PROCEDURE WAS FOLLOWED: [X] YES [ ] NO

FIELD CHANGE ORDER REFERENCE NO: NA

IF SAP WAS NOT FOLLOWED, SPECIFY WHAT DEVIATIONS WERE NECESSARY AND WHY (INCLUDE FIELD CHANGE ORDER REFERENCE NO.):

NA

RECORDED BY: [signature] SIGNATURE

QA CHECKED BY: [signature] SIGNATURE DATE 7-11-94

SAMPLE/LOT NUMBER: B03003

B03 p 255

CONTAINER VOLUME (ml)	CONTAINER TYPE	METHOD NAME AND NUMBER ANALYSIS	PRESERVATIVES (TYPE/VOL)	C-O-C #	AIR BILL #	CONTAINER LOT #	LABORATORY
1-120	WM Glass	CLPVOA	Cool,4C	OAC004	8219960405	JE CONTAINER LOT # LOG	COMPUC
1-250	AmbGlass	SVOC,PEST/PCB	Cool,4C				COMPUC
1-250	AmbGlass	EXPLOSIVES	Cool,4C				COMPUC
2/1-250	WM Glass	ANIONS Fl,SO4,Cl,N02/N03	Cool,4C				COMPUC
1-250	WM Glass	METALS,Cyanide	Cool,4C				COMPUC
1-120	Poly	LANTHANIDES	Cool,4C				COMPUC
1-120	AmbGlass	TOTAL ORGANIC CARBON	Cool,4C				COMPUC
2-250	WM GLASS	RADS Ac,Sr,H3,GAMMA	NONE				COMPUC
2-250	WM GLASS	RADS Pu,Th,U	NONE				COMPUC
			LAST ENTRY				

SAMPLE ID'S RINSATE: ~~ER0002~~ ER0003 W 4/27/94 TRIP BLANK: TB004 FIELD BLANK: AB0001 FIELD DUPLICATE: NA

RECORDED BY: _____ (SIGNATURE) QA CHECKED BY: _____ 7/11/94 (SIGNATURE)

SAMPLE LOG SHEET

PROJECT NAME: Mound Operational Area

PROJECT NO: 2680 B03 P256

SAMPLE ID NUMBER: BØ3ØØ4

DATE COLLECTED (MM/DD/YY): 6/23/94

TIME (HH:MM): 11ØØ

SAMPLING -

LOCATION CODE: MNDOA

DESCRIPTION: MOUND OPERATIONAL AREA

POINT CODE: BØ3

DESCRIPTION: OPERAIONAL AREA BORING #3

SAMPLE -

MEDIA CODE: Ø2

DESCRIPTION: Soil Subsurface (> 6 Inches)

DEPTH 15.ØØ TO 19.ØØ FT

FIELD OBSERVATIONS: NONE

SAMPLE TYPE:

- [X] GRAB
- [ ] TIME COMPOSITE
- [ ] QC RINSATE
- [ ] OTHER (SPECIFY)
- [ ] SPATIAL COMPOSITE
- [ ] QC TRIP BLANK
- [ ] QC FIELD BLANK

SAMPLE COLLECTED: [X] YES [ ] NO

SAP SAMPLING PROCEDURE WAS FOLLOWED: [X] YES [ ] NO

FIELD CHANGE ORDER REFERENCE NO: NA

IF SAP WAS NOT FOLLOWED, SPECIFY WHAT DEVIATIONS WERE NECESSARY AND WHY (INCLUDE FIELD CHANGE ORDER REFERENCE NO.):

NA

RECORDED BY: [illegible] QA CHECKED BY: [illegible] 7-11-94

RECORDED BY: [signature] (SIGNATURE) QA CHECKED BY: [signature] 7/28/94 (SIGNATURE)

SAMPLE ID NUMBER: B06001 p. 253

CONTAINER VOLUME (ml)	CONTAINER TYPE	METHOD NAME AND NUMBER ANALYSIS	PRESERVATIVES (TYPE/VOL)	C-O-C #	AIR BILL #	CONTAINER LOT #	LABORATORY
1-120	WM Glass	CLPVOA	Cool,4C	0DC018	8219959742	SEE CONTAINER LOT # LOG	COMPUC
1-250	AmbGlass	SVOC,PEST/PCB	Cool,4C				COMPUC
1-250	AmbGlass	EXPLOSIVES	Cool,4C				COMPUC
1-250	WM Glass	ANIONS Fl,SO4,Cl,NO2/NO3	Cool,4C				COMPUC
1-250	WM Glass	METALS,Cyanide	Cool,4C				COMPUC
1-120	Poly	LANTHANIDES	Cool,4C				COMPUC
1-120	AmbGlass	TOTAL ORGANIC CARBON	Cool,4C				COMPUC
2-250	WM GLASS	RADS Ac,Sr,H3,GAMMA	NONE				COMPUC
2-250	WM GLASS	RADS Pu,Th,U	NONE				COMPUC
			LAST ENTRY				

QA 7/28/94

253

SAMPLE ID'S RINSATE: ER00009 TRIP BLANK: TB0018 FIELD BLANK: AB00005 FIELD DUPLICATE: NA

RECORDED BY: [signature] (SIGNATURE) QA CHECKED BY: [signature] 7/28/94 (SIGNATURE)

SAMPLE LOG SHEET

PROJECT NAME: Mound Operational Area **PROJECT NO:** 2680 P.252

SAMPLE ID NUMBER: B06001 DATE COLLECTED (MM/DD/YY): 7/22/94 TIME (HH:MM): 0828

SAMPLING -

LOCATION CODE: MNDOA

DESCRIPTION: MOUND OPERATIONAL AREA

POINT CODE: B06

DESCRIPTION: OPERAIONAL AREA BORING #6

SAMPLE -

MEDIA CODE: 01

DESCRIPTION: Soil Surface (0 - 6 Inches)

DEPTH 0.00 TO ~~-5.00~~ 2.00 FT

AL 7/22/94

252

SAMPLE TYPE:

- [X] GRAB
- [ ] SPATIAL COMPOSITE
- [ ] TIME COMPOSITE
- [ ] QC TRIP BLANK
- [ ] QC RINSATE
- [ ] QC FIELD BLANK
- [ ] OTHER (SPECIFY)

FIELD OBSERVATIONS:

SAMPLE COLLECTED: [X] YES [ ] NO

SAP SAMPLING PROCEDURE WAS FOLLOWED: [X] YES [ ] NO FIELD CHANGE ORDER REFERENCE NO: 05-OP-001

IF SAP WAS NOT FOLLOWED, SPECIFY WHAT DEVIATIONS WERE NECESSARY AND WHY (INCLUDE FIELD CHANGE ORDER REFERENCE NO.):

BOREHOLE LOCATION MOVED. THIS TRPC APPLIES to ALL SAMPLES COLLECTED FROM B06

RECORDED BY: (SIGNATURE) QA CHECKED BY: (SIGNATURE) 7/28/94

SAMPLER NUMBER: B03004 B03 p 257

CONTAINER VOLUME (ml)	CONTAINER TYPE	METHOD NAME AND NUMBER ANALYSIS	PRESERVATIVES (TYPE/VOL)	C-O-C #	AIR BILL #	CONTAINER LOT #	LABORATORY
1-120	WM Glass	CLPVOA	Cool,4C	OAC 004 OAC 005	8219960372	SEE CONTAINER LOT # LOG	COMPUC
1-250	AmbGlass	SVOC,PEST/PCB	Cool,4C				COMPUC
1-250	AmbGlass	EXPLOSIVES	Cool,4C				COMPUC
2 ~~1~~-250	WM Glass	ANIONS Fl,SO4,Cl,N02/N03	Cool,4C				COMPUC
1-250	WM Glass	METALS,Cyanide	Cool,4C				COMPUC
1-120	Poly	LANTHANIDES	Cool,4C				COMPUC
1-120	AmbGlass	TOTAL ORGANIC CARBON	Cool,4C				COMPUC
2-250	WM GLASS	RADS Ac,Sr,H3,GAMMA	NONE				COMPUC
2-250	WM GLASS	RADS Pu,Th,U	NONE				COMPUC
			LAST ENTRY				

SAMPLE ID'S RINSATE: ER0003 TRIP BLANK: TBA004 FIELD BLANK: AB0001 FIELD DUPLICATE: NA

~~TBA0~~ CL 6/27/94

RECORDED BY: (SIGNATURE) QA CHECKED BY: (SIGNATURE) 7-11-94

SAMPLE LOG SHEET

PROJECT NAME: Mound Operational Area

PROJECT NO: 2680 B03 p258

SAMPLE ID NUMBER: B03005

DATE COLLECTED (MM/DD/YY): ~~1402~~ 6/27/94 1402

TIME (HH:MM): 1402

SAMPLING -

LOCATION CODE: MNDOA

DESCRIPTION: MOUND OPERATIONAL AREA

POINT CODE: B03

DESCRIPTION: OPERAIONAL AREA BORING #3

FIELD OBSERVATIONS: HAD TO SKIP INTERVAL 20'-25' DUE TO GRAVEL WITH INSUFFICIENT FINES

SAMPLE -

MEDIA CODE: 02

DESCRIPTION: Soil Subsurface (>6 Inches)

DEPTH 25.00 TO 28.00 FT

SAMPLE TYPE:

- [X] GRAB
- [ ] TIME COMPOSITE
- [ ] QC RINSATE
- [ ] OTHER (SPECIFY)
- [ ] SPATIAL COMPOSITE
- [ ] QC TRIP BLANK
- [ ] QC FIELD BLANK

SAMPLE COLLECTED: [X] YES [ ] NO

SAP SAMPLING PROCEDURE WAS FOLLOWED: [X] YES [ ] NO

FIELD CHANGE ORDER REFERENCE NO: NA

IF SAP WAS NOT FOLLOWED, SPECIFY WHAT DEVIATIONS WERE NECESSARY AND WHY (INCLUDE FIELD CHANGE ORDER REFERENCE NO.):

NA

RECORDED BY: (SIGNATURE)

CHECKED BY: (SIGNATURE) 7-11-94

SAMPLE NUMBER: B03005 B03 p 25

CONTAINER VOLUME (ml)	CONTAINER TYPE	METHOD NAME AND NUMBER ANALYSIS	PRESERVATIVES (TYPE/VOL)	C-O-C #	AIR BILL #	CONTAINER LOT #	LABORATORY
1-120	WM Glass	CLPVOA	Cool,4C	OAC005	8219960372		COMPUC
1-250	AmbGlass	SVOC,PEST/PCB	Cool,4C				COMPUC
1-250	AmbGlass	EXPLOSIVES	Cool,4C				COMPUC
CL 6/27/94 2 ~~1~~-250	WM Glass	ANIONS Fl,SO4,Cl,N02/N03	Cool,4C			SEE CONTAINER LOT # LOC	COMPUC
1-250	WM Glass	METALS,Cyanide	Cool,4C				COMPUC
1-120	Poly	LANTHANIDES	Cool,4C				COMPUC
1-120	AmbGlass	TOTAL ORGANIC CARBON	Cool,4C				COMPUC
2-250	WM GLASS	RADS Ac,Sr,H3,GAMMA	NONE				COMPUC
2-250	WM GLASS	RADS Pu,Th,U	NONE				COMPUC
			LAST ENTRY				

SAMPLE ID'S RINSATE: EC0003 TRIP BLANK: ~~TBA004~~ TBA005 CL 6/27/94 FIELD BLANK: AB0001 FIELD DUPLICATE: NA

RECORDED BY: (SIGNATURE) QA CHECKED BY: 7-11-94 (SIGNATURE)

SAMPLE LOG SHEET

PROJECT NAME: Mound Operational Area **PROJECT NO.** 2680 B03 P260

SAMPLE ID NUMBER: B03006 DATE COLLECTED (MM/DD/YY): 6/27/94 TIME (HH:MM): 1548

SAMPLING -

LOCATION CODE: MNDOA

DESCRIPTION: MOUND OPERATIONAL AREA

POINT CODE: B03

DESCRIPTION: OPERAIONAL AREA BORING #3

SAMPLE -

MEDIA CODE: 02

DESCRIPTION: Soil Subsurface (>6 Inches)

DEPTH 34.00 TO 36.00 FT

SAMPLE TYPE:

- [X] GRAB
- [ ] TIME COMPOSITE
- [ ] QC RINSATE
- [ ] OTHER (SPECIFY)
- [ ] SPATIAL COMPOSITE
- [ ] QC TRIP BLANK
- [ ] QC FIELD BLANK

FIELD OBSERVATIONS: VOA SAMPLE ONLY DUE TO OVA = 8 PPM BELOW 30'

SAMPLE COLLECTED: [X] YES [ ] NO

SAP SAMPLING PROCEDURE WAS FOLLOWED: [X] YES [ ] NO FIELD CHANGE ORDER REFERENCE NO: NA

IF SAP WAS NOT FOLLOWED, SPECIFY WHAT DEVIATIONS WERE NECESSARY AND WHY (INCLUDE FIELD CHANGE ORDER REFERENCE NO.):

NA

QA CHECKED BY: 7-11-94

(SIGNATURE)

SAMPLE LOG SHEET

SAMPLE ID NUMBER: BØ3ØØ6 B03 p 261

CONTAINER VOLUME (ml)	CONTAINER TYPE	METHOD NAME AND NUMBER ANALYSIS	PRESERVATIVES (TYPE/VOL)	C-O-C #	AIR BILL #	CONTAINER LOT #	LABORATORY
1-12Ø	WM Glass	CLPVOA	Cool,4C	OAC005	8219960372	SEE CONTAINER LOT # LOG	COMPUC
~~1-25Ø~~	~~AmbGlass~~	~~SVOC,PEST/PCB~~	~~Cool,4C~~				~~COMPUC~~
~~1-25Ø~~	~~AmbGlass~~	~~EXPLOSIVES~~	~~Cool,4C~~				~~COMPUC~~
~~1-25Ø~~	~~WM Glass~~	~~ANIONS-Fl,SO4,Cl,NØ2/NØ3~~	~~Cool,4C~~				~~COMPUC~~
~~1-25Ø~~	~~WM Glass~~	~~METALS,Cyanide~~	~~Cool,4C~~				~~COMPUC~~
~~1-12Ø~~	~~Poly~~	~~LANTHANIDES~~	~~Cool,4C~~				~~COMPUC~~
~~1-12Ø~~	~~AmbGlass~~	~~TOTAL ORGANIC CARBON~~	~~Cool,4C~~				~~COMPUC~~
~~2-25Ø~~	~~WM GLASS~~	~~RADS Ac,Sr,H3,GAMMA~~	~~NONE~~				~~COMPUC~~
~~2-25Ø~~	~~WM GLASS~~	~~RADS Pu,Th,U~~	~~NONE~~				~~COMPUC~~
			LAST ENTRY				

SAMPLE ID'S RINSATE: ~~ER0003~~ ER0005 SB 8-18 TRIP BLANK: TBA005 FIELD BLANK: AB0001 FIELD DUPLICATE: NA

RECORDED BY: (SIGNATURE) QA CHECKED BY: (SIGNATURE) 7-11-94

SAMPLE LOG SHEET

PROJECT NAME: Mound Operational Area **PROJECT NO:** 2680 B03 262

SAMPLE ID NUMBER: B03007 DATE COLLECTED (MM/DD/YY): 6/28/94 TIME (HH:MM): 0817

SAMPLING -

LOCATION CODE: MNDOA

DESCRIPTION: MOUND OPERATIONAL AREA

POINT CODE: B03

DESCRIPTION: OPERAIONAL AREA BORING #3

SAMPLE -

MEDIA CODE: 02

DESCRIPTION: Soil Subsurface (> 6 Inches)

DEPTH 50.00 TO 40.00 Ft

SAMPLE TYPE:

- [X] GRAB
- [ ] TIME COMPOSITE
- [ ] QC RINSATE
- [ ] OTHER (SPECIFY)
- [ ] SPATIAL COMPOSITE
- [ ] QC TRIP BLANK
- [ ] QC FIELD BLANK

FIELD OBSERVATIONS: OVA = 8-10 PPM LEL = 10%

SAMPLE COLLECTED: [X] YES [ ] NO

SAP SAMPLING PROCEDURE WAS FOLLOWED: [X] YES [ ] NO FIELD CHANGE ORDER REFERENCE NO: NA

IF SAP WAS NOT FOLLOWED, SPECIFY WHAT DEVIATIONS WERE NECESSARY AND WHY (INCLUDE FIELD CHANGE ORDER REFERENCE NO.):

NA

RECORDED BY: (SIGNATURE) QA CHECKED BY: 7-11-94 (SIGNATURE)

SAMPLE ID NUMBER: B03007

B03 p 263

CONTAINER VOLUME (ml)	CONTAINER TYPE	METHOD NAME AND NUMBER ANALYSIS	PRESERVATIVES (TYPE/VOL)	C-O-C #	AIR BILL #	CONTAINER LOT #	LABORATORY
1-120	WM Glass	CLPVOA	Cool,4C	OAC006	8219960486	SEE CONTAINER LOT # LOG	COMPUC
~~1-250~~	~~AmbGlass~~	~~SVOC,PEST/PCB~~	~~Cool,4C~~				~~COMPUC~~
~~1-250~~	~~AmbGlass~~	~~EXPLOSIVES~~	~~Cool,4C~~				~~COMPUC~~
~~1-250~~	~~WM Glass~~	~~ANIONS Fl,SO4,Cl,N02/N03~~	~~Cool,4C~~				~~COMPUC~~
~~1-250~~	~~WM Glass~~	~~METALS,Cyanide~~	~~Cool,4C~~				~~COMPUC~~
~~1-120~~	~~Poly~~	~~LANTHANIDES~~	~~Cool,4C~~				~~COMPUC~~
~~1-120~~	~~AmbGlass~~	~~TOTAL ORGANIC CARBON~~	~~Cool,4C~~				~~COMPUC~~
~~2-250~~	~~WM GLASS~~	~~RADS Ac,Sr,H3,GAMMA~~	~~NONE~~				~~COMPUC~~
~~2-250~~	~~WM GLASS~~	~~RADS Pu,Th,U~~	~~NONE~~				~~COMPUC~~
			Last Entry				

SAMPLE ID'S RINSATE: ~~ER0003~~ ER0005 TRIP BLANK: TBA006 FIELD BLANK: AB0001 FIELD DUPLICATE: NA

RECORDED BY: (SIGNATURE) QA CHECKED BY: 7-11-94 (SIGNATURE)

SAMPLE LOG SHEET

PROJECT NAME: Mound Operational Area

PROJECT NO: 2680 B03 p 290

SAMPLE ID NUMBER: WØ3ØØ1

DATE COLLECTED (MM/DD/YY): 6/27/94

TIME (HH:MM): 1115

SAMPLING -

LOCATION CODE: MNDOA

DESCRIPTION: MOUND OPERATIONAL AREA

POINT CODE: BØ3

DESCRIPTION: OPERAIONAL AREA BORING #3

SAMPLE -

MEDIA CODE: 69

DESCRIPTION: Other Groundwater

DEPTH NA TO NA NA

SAMPLE TYPE:

- [X] GRAB
- [ ] SPATIAL COMPOSITE
- [ ] TIME COMPOSITE
- [ ] QC TRIP BLANK
- [ ] QC RINSATE
- [ ] QC FIELD BLANK
- [ ] OTHER (SPECIFY)

FIELD OBSERVATIONS: NONE

SAMPLE COLLECTED: [X] YES [ ] NO

THD 7/28/94

SAP SAMPLING PROCEDURE WAS FOLLOWED: [X] YES [X] NO

FIELD CHANGE ORDER REFERENCE NO: ~~NA~~ Ø5-NP-Ø12

IF SAP WAS NOT FOLLOWED, SPECIFY WHAT DEVIATIONS WERE NECESSARY AND WHY (INCLUDE FIELD CHANGE ORDER REFERENCE NO.):

NO PACKER WAS USED ON WELL POINT. ~~NA~~ THD 7/28/94

SEE ABOVE TRPC THD 7/28/94

RECORDED BY: (SIGNATURE)

CHECKED BY: 7/11/94 (SIGNATURE)

SAMPLE I[illegible]MBER: W03001

B03 p 291

CONTAINER VOLUME (ml)	CONTAINER TYPE	METHOD NAME AND NUMBER ANALYSIS	PRESERVATIVES (TYPE/VOL)	C-O-C #	AIR BILL #	CONTAINER LOT #	LABORATORY
2-40	Glass	CLPVOA	HCL to pH<2,4C	OAC005	8219960572		COMPUC
2-40	Glass	CLPVOA - 8010	HCL to pH<2,4C			SEE CONTAINER LOT # LOG	COMPUC
2-1000	AmbGlass	CLP SVOC	Cool,4C				COMPUC
2-1000	AmbGlass	CLP PEST / PCB	Cool,4C				COMPUC
2-1000	AmbGlass	EXPLOSIVES	Cool,4C				COMPUC
1-1000	Poly	METALS	HNO3 to pH<2,4C				COMPUC
1-1000	Poly	CYANIDE	NaOH to pH>12,4C				COMPUC
GL 6/21/94 3 ~~2~~-1000	Poly	ANIONS Fl,SO4,Cl	Cool,4C				COMPUC
1-1000	Poly	NO2/NO3	H2SO4 to pH<2,4C				COMPUC
1-1000	Poly	TOTAL NIT/TOTAL PHOS	H2SO4 to pH<2,4C				COMPUC
1-1000	AmbGlass	TOTAL ORGANIC CARBON	H2SO4 to pH<2,4C				COMPUC
1-1000	Poly	TOTAL SUSPENDED SOLIDS	Cool,4C				COMPUC
1-1000	Poly	TOTAL DISSOLVED SOLIDS	Cool,4C				COMPUC
1-1000	Poly	ALKALINITY	Cool,4C				COMPUC
2-1000	Poly	RADS Pu,Th,U,Am	HNO3 TO PH<2				COMPUC
2-1000	Poly	RADS Ac,Ra,Sr,GAMMA	HNO3 TO PH<2				COMPUC
1-1000	Glass	TRITIUM	NONE				COMPUC
1-1000	Poly	LANTHANIDES	HNO3 TO PH<2,4C				COMPUC

SAMPLE ID'S RINSATE: ~~ER0004~~ TRIP BLANK: TB005 FIELD BLANK: AB0002 ~~AB0010~~ GL 6/21/94 FIELD DUPLICATE: NA

RECORDED BY: [signature] (SIGNATURE) QA CHECKED BY: [signature] 7-11-94 (SIGNATURE)

GROUNDWATER QUALITY SAMPLING RECORD

SOIL BORING B03 P 313

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1

PROJECT NO: 34896

PAGE 1 OF 1

FACILITY CODE: MN021

LOCATION ID: B03

SAMPLE ID: W03001

LOG DATE: 6/27/94

ANALYICAL LAB CODE: NA

LOT CONTROL NO.: NA

SAMPLE TYPE: F

ACCEPTANCE CODE: ~~NA~~ A TMD 7-14-94

LOGGER CODE: BAIC

INITIAL GROUNDWATER DEPTH (FT): 17.3

SAMPLE DEPTH (FT): 17.3

SAMPLING PERIOD: START 1115 COMPLETE 1159

SAMPLING METHOD: BH

DATE SENT: 6/27/94

COMMENTS NONE

FINAL PARAMETER MEASUREMENTS:

POTENTIAL OF HYDROGEN	pH	S.U.	7.94
SPECIFIC CONDUCTANCE	Ec	umhos/cm	260
REDOX POTENTIAL	Eh	mvolts	NR
TEMPERATURE	TMP	°C	13.9
ALKALINITY ($CaCO_3$)	ALK	mg/l	311.5 (AVG. of RUN2 AND RUN3)
DISSOLVED OXYGEN	DO	mg/l	2.82

TIME	TOTAL VOLUME WITHDRAWN (GALS)	TOTAL VOLUME WITHDRAWN (Bore Volume)	pH	Ec (umhos/cm)	TEMP (°C)	COMMENTS
1019	3	~~0.36~~ 6	6.91	186	14.1	NONE
1029	7	~~0.85~~ 14	7.27	198	13.9	↓
1043	8	~~0.97~~ 16	7.44	208	13.8	↓
1055	9	~~1.09~~ 18	7.49	207	13.8	↓
1108	10	~~1.22~~ 20	7.53	202	13.8	↓
1159	17.5	~~2.13~~ 35	7.94	260	13.9	↓
				LAST ENTRY		

ACCEPTANCE CODES: A - ACCEPTABLE, R - RECONNAISSANCE, U - UNACCEPTABLE, N - NOT DETERMINED

SAMPLE TYPES:
F - FIELD, R - REPLICATE, K - KNOWN, A - ACID BLANK

SAMPLING METHODS:
BP - BLADDER PUMP, PP - PERISTALIC PUMP, G - GRAB, B - BAILER, AL - AIR-LIFT SAMPLER, SL - SUCTION LIFT PUMP, SP - SUBMERSIBLE PUMP

COMPLETE BOLDED DATA FOR ENTRY INTO TIMS

FORM COMPLETED BY / DATE: 6/27/94

TECHNICAL REVIEWER / DATE: 7-14-94

GROUNDWATER QUALITY SAMPLING RECORD — SOIL BORING B03 p315

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 — PROJECT NO: 34896

PAGE 1 OF 1

FACILITY CODE: MND21

LOCATION ID: B03 — LOG DATE: 6/27/94

BORE VOL CALCULATION (GAL)

$\frac{d^2\pi}{4}(h_1 - h_2) \times 7.48$

$\frac{(.167)^2(3.14)}{4}(20.4 - 17.3)(7.48) =$

DEPTH OF WELL (h2) (ft): 20.4

DEPTH TO WATER (h1) (ft): 17.3

WELL DIAMETER (ft): JMD ~~0.67~~ .167

ONE BORE VOLUME (GAL): 8/12/94 ~~8.2~~ 0.51

SCREENED INTERVAL (ft): 15.4 - 20.4

FIELD REP: G LODER

INSTRUMENT(S) USED: pH, CONDUCTIVITY, TEMP, DO, REDOX, OVA, LEL

SAMPLING INFORMATION

WITDRAWL METHOD: BAILER

FILTER SIZE: NA

THERMOMETER ID: NA

Ec METER ID: GL 6/27/94 ~~2127~~ 2179

pH METER ID: 2025

PUMP ID: NA

ALKALINITY KIT ID: HACH AL-DT

CALIBRATION INFORMATION

DATE/TIME OF LAST Ec CALIBRATION: 7/18/94 0900

TIME OF pH CALIBRATION: 0730

FOR STANDARD pH 7, INSTRUMENT READING: 7.01

FOR STANDARD pH 4, INSTRUMENT READING: 4.00

FOR STANDARD pH 10, INSTRUMENT READING: 10.01

Eh OF CALIBRATION SOLUTION: 1,000 AND 10,000 µ ohms/cm

Eh READING IN CALIBRATION SOLUTION AFTER MEASUREMENT: NR

TEMP OF CALIBRATION SOLUTION (°C): 3°c - 25°c

SHIPPING INFORMATION

LAB(S) SHIPPED TO:	COMPU CHEM	NA	NA
DATE(S) SHIPPED:	6/27/94	↓	↓
METHOD OF SHIPMENT:	FEDEX	↓	↓

COMMENTS: NONE

GROUNDWATER QUALITY SAMPLING RECORD

SOIL BORING B03 p 317

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1

PROJECT NO: 34896

PAGE 1 OF 1

FACILITY CODE: MND21

LOCATION ID: B03, SAMPLE W03001

LOG DATE: 6-28-94

ERROR AT 4.50: $\frac{X1 - X2}{XS}$ X 100 = 10.78 %

1st = 10.78 % $\frac{339-306}{306}$ = 10.78%

2nd = 3.60 % $\frac{317-306}{306}$ = 3.60%

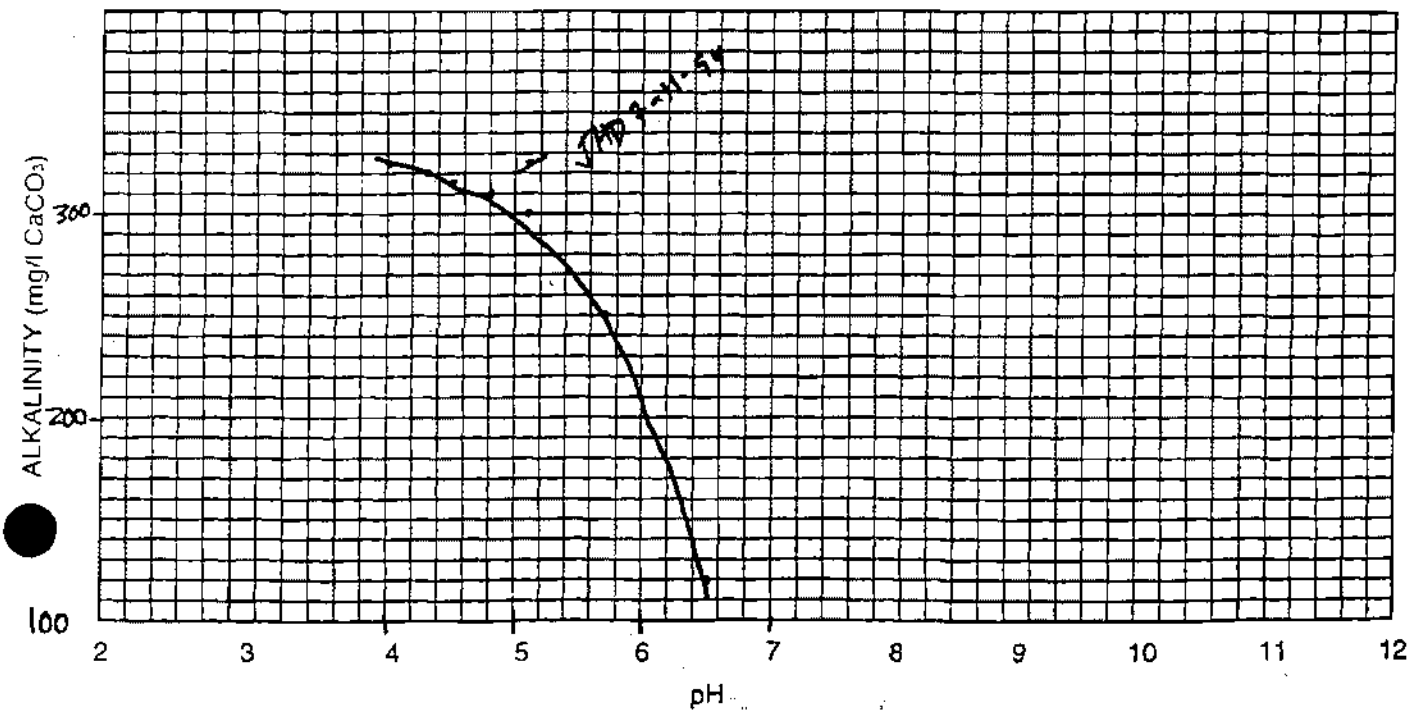
INITIAL pH 7.36

pH CHECK AFTER TITRATION

7.00 = 7.00

4.00 = 4.02

pH	ALKALINITY (mg/l $CaCO_3$) 1st	2nd	3rd
8.90	NA	NA	NA
8.60			
8.30			
8.05			
7.80			
7.50			
6.50	123	119	128
5.70	279	251	260
5.10	324	NR	303
4.80	334	301	311
4.50	339	306	317
4.25	343	310	320
4.00	347	314	324



STANDARD ELECTRICAL CONDUCTIVITY DATA — SOIL BORING B03 P319

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 — PROJECT NO: 34896

FACILITY CODE: MND 21 — LOGGER CODE: SAIC

DATE: 6/27/94 — ACCEPTANCE CODE: A

MANUFACTURER/Ec METER ID: VSI MODEL 3000 ; SN: 91D029512 HABCO #2179

ELECTRICAL CONDUCTIVITY OF KNOWN SOLUTIONS AT 25° C:	
KNOWN (mg/l KCl)	Ec (meter)
1000	1147

Ec	TEMPERATURE (°C) LAB THERMOMETER	TEMPERATURE (°C) (Ec METER)
NR	0	NR
↓	1	↓
↓	2	↓
0.877	3	16.8
0.887	4	16.1
0.899	5	16.2
0.908	6	16.2
0.923	7	16.3
0.966	8	16.5
0.975	9	16.7
0.980	10	16.8
0.982	11	17.0
0.986	12	17.1
0.990	13	17.2
0.995	14	17.4
1.001	15	17.6
1.019	16	17.8
1.030	17	18.0
1.036	18	18.4
1.048	19	18.7
1.062	20	19.2
1.077	21	19.7
1.082	22	20.1
1.099	23	20.7
1.128	24	21.8
1.147	25	22.5

NO [illegible] 6/27/94 [illegible] 7-11-94

COMPLETE BOLDED DATA FOR ENTRY INTO TIMS

6/27/94 — FORM COMPLETED BY / DATE

7/28/94 — TECHNICAL REVIEWER / DATE

EG&G MOUND

OUS OPS AREA

PHASE I

A7 SOIL BORING

LOGBOOK

B4 - B6

SOIL BORING LOG BOOK

B04, B05, B06

PROJECT TITLE: EG&G MOUND OU5 OPERATIONAL AREA PHASE 1 RI/FS FIELD INVESTIGATIONS

WORK SITE: *MOUND PLANT*
Miamisburg, Ohio
OU5 Operational Area

ACTIVITY: *Mound OU5 Operational Area Phase 1 RI/FS Field Investigations*

CONTRACT #: *BOA 52264*
TASK ORDER: *34896*

PROJECT MANAGER: *Thomas Tank*
COMPANY NAME / ADDRESS: *Science Applications International Corporation*
4031 Colonel Glenn Hwy ,Dayton, Ohio 45431
TELEPHONE NUMBERS: *(513) 429-2699*

SUPERVISORS: *OU5 Manager: Alan Spesard (513)865-3859*
SAIC Proj. Manager: Thomas Tank (513)429-2699

EMERGENCY RESPONCE: *Police / Ambulance / Fire 911 or 865-4040*

PROCEDURES: *SOP 1.1. SOP 2.2. SOP 3.1. SOP 5.1. SOP 6.1. SOP 6.3*

START DATE: 6/22/94
END DATE: 7/22/94

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B04 B05 B06

SOIL BORING I.

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1

PROJECT NO: 34896

PAGE	FIELD LOG	PAGE	FIELD LOG
1	TASK TEAM LOG; B04; 6/22/94	31	BOREHOLE ABANDON. LOG; B04
2	" ; " ; "	32	NO ENTRY
3	NO ENTRY	33	KEY SHEET
4		34	NO ENTRY
5		35	"
6		36	SAMPLE LOG SHEET; B04001
7		37	" ; "
8		38	" ; B04002
9		39	" ; "
10		40	NO ENTRY
11	BOREHOLE LOG; B04	41	
12	NO ENTRY	42	
13		43	
14		44	
15		45	
16		46	
17		47	
18		48	
19		49	
20		50	
21		51	
22		52	
23		53	
24		54	
25		55	
26		56	
27	CGI MONITOR DATA; B04	57	
28	NO ENTRY	58	
29	FID FIELD DATA; B04	59	
30	NO ENTRY	60	

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B04 B05 B06

SOIL BORING II

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1

PROJECT NO: 34896

PAGE	FIELD LOG	PAGE	FIELD LOG
61	NO ENTRY	91	NO ENTRY
62		92	
63		93	
64		94	
65		95	
66	SAMPLE LOG SHEET; B04021	96	
67	" ; "	97	
68	NO ENTRY	98	
69		99	
70		100	
71		101	
72		102	
73		103	
74		104	
75		105	
76		106	
77		107	
78		108	
79		109	TASK TEAM LOG; B05; 6/22/94
80	SAMPLE LOG SHEET; B04102	110	" ; " ; "
81	" ; "	111	NO ENTRY
82	NO ENTRY	112	
83		113	
84		114	
85		115	
86		116	
87		117	
88		118	
89		119	BOREHOLE LOG; B05
90		120	" ; "

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B04 B05 B06

SOIL BORING III

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1

PROJECT NO: 34896

PAGE	FIELD LOG	PAGE	FIELD LOG
121	NO ENTRY	151	NO ENTRY
122		152	
123		153	
124		154	
125		155	
126		156	
127		157	
128		158	
129		159	
130		160	
131		161	
132		162	
133		163	
134		164	
135	CGI MONITOR DATA; B05	165	
136	NO ENTRY	166	
137	FID FIELD DATA; B05	167	
138	NO ENTRY	168	
139	BOREHOLE ABAND. LOG; B05	169	
140	NO ENTRY	170	
141	KEY SHEET	171	
142	NO ENTRY	172	
143	"	173	
144	SAMPLE LOG SHEET; B05001	174	
145	" ; "	175	
146	" ; B05002	176	
147	" ; "	177	
148	NO ENTRY	178	
149		179	
150		180	

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B04 B05 B06

SOIL BORING
IV

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1

PROJECT NO: 34896

PAGE	FIELD LOG	PAGE	FIELD LOG
181	NO ENTRY	211	NO ENTRY
182		212	
183		213	
184		214	
185		215	
186		216	
187		217	TASK TEAM LOG SHEET; B06; 7/22/94
188		218	NO ENTRY
189		219	
190		220	
191		221	
192		222	
193		223	
194		224	
195		225	
196		226	
197		227	BOREHOLE LOG; B06
198		228	" ; "
199		229	NO ENTRY
200		230	
201		231	
202		232	
203		233	
204		234	
205		235	
206		236	
207		237	
208		238	
209		239	
210		240	

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B04 B05 B06

SOIL BORING

V

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1

PROJECT NO: 34896

PAGE	FIELD LOG	PAGE	FIELD LOG
241	NO ENTRY	271	NO ENTRY
242	NO ENTRY	272	
243	CGI MONITOR DATA; B06	273	
244	NO ENTRY	274	
245	FID FIELD DATA; B06	275	
246	NO ENTRY	276	
247	BOREHOLE ABANDON LOG; B06	277	
248	NO ENTRY	278	
249	KEY SHEET	279	
250	NO ENTRY	280	
251	"	281	
252	SAMPLE LOG SHEET; B06001	282	
253	" ; "	283	
254	" ; B06002	284	
255	" ; "	285	
256	" ; B06003	286	
257	" ; "	287	
258	NO ENTRY	288	
259		289	
260		290	
261		291	
262		292	
263		293	
264		294	
265		295	
266		296	
267		297	
268		298	
269		299	
270		300	

B04 QA'd

B05 QA'd

TABLE OF CONTENTS B04 B05 B06 SOIL BORING VI

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 PROJECT NO: 34896

PAGE	FIELD LOG	PAGE	FIELD LOG
301	NO ENTRY	331	
302		332	
303		333	
304		334	
305		335	
306		336	
307		337	
308		338	
309		339	
310		340	
311		341	
312		342	
313		343	
314		344	
315		345	
316		346	
317		347	
318		348	
319		349	NA
320		350	
321		351	
322		352	
323		353	
324		354	
325		355	
326		356	
327	LAST PAGE OF BOOK	357	
328		358	
329	NA	359	
330		360	

TASK TEAM ACTIVITY LOG SHEET

SOIL BORING B04 P.1

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1

TASK NO.: 34896

Date (mm/dd/yy): 6/22/94 TIME: 0830 PAGE 1 OF 2

Task Team Members:

GREG LOYER	SAIC	DENNIS SINK	BM
JEFF DENAKIN	SAIC	JIM HAGAR	BM

Narrative (include time and location):

0830 ARRIVE ON SITE BEGIN TO SET-UP. JOYCE & HENRY ON SITE. RECEIVE DIGGING PERMIT. GIVE TAILGATE H&S.

0855 TAKE B04001 WITH SPOON & BOWL. H.NU = 0 ppm LEL=0

0910 JOLETTA PICKS UP B04001

0915 TAKE B04002 H.NU = 0 ppm, LEL=0. TAKING DUPLICATE B04102

0922 SECOND SPOON FOR B04002 LOOKS LIKE WEATHERED SHALE IN TIP OF SPOON, CLAY VERY FIRM. SINCE WE ARE TRYING TO DO A DUPLICATE AND WE ARE CLOSE TO BEDROCK WE WILL AUGER TO 7' AND DRIVE ANOTHER SPLIT SPOON

0931 AUGERED TO 7' TOOK THIRD SPOON FOR B04002

0940 FOURTH SPOON DRIVEN TO 9' IS EMPTY, PROBABLY RIGHT ON BEDROCK. WE WILL NEED TO USE AUGER CUTTINGS TO FILL 4 RAD JARS FOR PRIMARY AND DUPLICATE SAMPLES GC 6/22/94

1005 PUSHING SHELBY TUBE FOR SURFACE HORIZON ONE FOOT FROM BOREHOLE

1009 RECOVERED 1.5' IN SHELBY SAMPLE # B04021

1016 DRILLERS GROUT BOREHOLE

Daily Weather Conditions: A.M. 80°F HUMID SUNNY

P.M. SAME

Recorded By [signature] QA Checked By [signature] 6/27/94

TASK TEAM ACTIVITY LOG SHEET

SOIL BORING B04 P.2

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1

TASK NO.: 34896

Date (mm/dd/yy): 6/22/94 TIME: NA PAGE 2 OF 2

Task Team Members:

SEE PAGE 1

Narrative (include time and location):

1635 LEAVE SITE TWA = 0.32 FOR AIR MONITORING

LAST ENTRY

Daily Weather Conditions: A.M. 80°F HUMID SUNNY

P.M. SAME

Recorded By [signature] QA Checked By [signature] 6/27/94

BOREHOLE LOG (SOIL)

SOIL BORING

B04 P.11

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1

PROJECT NO: 34896

Page 1 of 1

[redacted]Y CODE: ~~NA~~ MNDZ1 JMD 6/27/94

LOCATION ID: B04

COORDINATES (FT):

NORTH NA EAST NA

GROUND ELEVATION (FT MSL) JMD 6/27/94

LOCATION TYPE: ~~NA~~ BH

COMMENTS: NONE

DRILLER CODE: ~~NA~~ BOWS JMD 6/27/94

COMPLETION DATE 6/22/1994

DIAMETER (IN): 8"

DEPTH (FTFD): 9.0'

CONSTRUCTION METHOD: B

ACCEPTANCE CODE: ~~NA~~ A JMD 6/27/94

GROUNDWATER LEVELS

DATE	TIME	DEPTH (FT)
NONE ENCOUNTERED		

LOCATION DESCRIPTION

BETWEEN BLDG 29 AND BLDG 98

LITHOLOGIC LOG

LOGGER CODE: NA

DEPTH (FT)	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE RETAINED	SAMPLE METHOD	SAMPLE ID	BLOW COUNT (PER 6 IN)	N VALUE	USCS	VISUAL DESCRIPTIONS
[redacted]	0-2	BOWL	FULL	O	B04001	NA		SP	SILT, TRACE MEDIUM SAND
									TRACE GRAVEL, DRY
									LOOSE 10YR 3/1 VERY
									DARK GREY COLLECTED IN BOWL
5	5-7	1.1	1.1	U	B04002	19/29/36/19	55	CL	CLAY TRACE GRAVEL FIRM
	SECOND SPOON								DRY NONPLASTIC 5 GY 5/1
									GREENISH GREY LAMINATED
	7-9	0.4	0.4	U	B04002	22/34/46/39	87	CL	SAME AS ABOVE
9									BEDROCK - LIMESTONE
	0-2	1.5	1.5	T	B04021	NA			SHELBY TUBE OF SURFACE HORIZON

ACCEPTANCE CODES: A - ACCEPTABLE, R - RECONNAISSANCE, U - UNACCEPTABLE, N - NOT DETERMINED

CONSTRUCTION METHODS:

AIR ROTARY
BORED OR AUGERED
CABLE - TOOL
DUG
[redacted]AULIC - ROTORY
[redacted]ED
P - AIR - PERCUSSION
R - REVERSE ROTERY
T - TRENCHING
V - DRIVEN
W - DRIVE AND WASH
Z -OTHER (SPECIFY)

SAMPLE METHODS:

A - AUGER CUTTINGS
S - 2" O.D. 1.38" I.D. DRIVE SAMPLES
U - 3" O.D. 2.42" I.D. TUBE SAMPLES
T - 3" O.D. THIN-WALLED SHELBY TUBE
O - OTHER (SPECIFY)

COMPLETE BOLDED DATA FOR ENTRY INTO TIMS

FORM COMPLETED BY / DATE 6/22/94

TECHNICAL REVIEWER / DATE 6/27/94

B04 PAD

COMBUSTIBLE GAS INDICATOR (CGI) MONITORING DATA — SOIL BORING B04 P.27

PROJECT NAME: EG&G MOUND OU5/OPERATIONAL AREA, PHASE 1 — PROJECT NO: 34896

FACILITY CODE: ~~NA~~ MND21 THD 6/27/94 — LOG DATE: 06/22/94

LOGGER CODE: THD 6/27/94 ~~NA~~ SAIC — FIELD REP: Jeff DeVaughn

CGI MANUFACTURER: Industrial Scientific — CGI MODEL NO.: MX 251

SERIAL NO.: 2420 — CALIBRATION DATE/TIME: 06/22/94 0700

ACCEPTANCE CODE: ~~NA~~ A THD 6/27/94 — BATTERY CONDITION: OK

CALIBRATION GAS (%LEL) TYPE: Pentane — CONCENTRATION: 50 % LEL — CYLINDER SERIAL NO: 59731

CALIBRATION GAS (PPM) TYPE: NA — CONCENTRATION: NA PPM — CYLINDER SERIAL NO: NA

COMMENTS: NONE

LOCATION ID OR DESCRIPTION	COORDINATES FT NORTH	COORDINATES FT EAST	MONITORING TIME (HH:MM)	LOCATION TYPE	% LOWER EXPLOSIVE LIMIT	PPM	% OXYGEN
B04	NA	NA	08:55	BH	0	NA	21
↓	↓	↓	09:15	BH	0	NA	21
			LAST ENTRY				

ACCEPTANCE CODES: A - ACCEPTABLE, R - RECONNAISSANCE, U - UNACCEPTABLE, N - NOT DETERMINED

LOCATION TYPES: BH - BOREHOLE SL - SURFACE LOCATION TP - TEST PIT WL - WELL

COMPLETE BOLDED DATA FOR ENTRY INTO TIMS

Jeff DeVaughn 6/22/94 — FORM COMPLETED BY / DATE

6/27/94 — TECHNICAL REVIEWER / DATE

FLAME IONIZATION DETECTOR FIELD DATA

SOIL BORING B04 P. 29

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 6/27/94

PROJECT NO: 34896

ACILITY CODE: ~~NA~~ MND21 LOG DATE: 6/22/94

LOCATION ID B04 LOCATION TYPE: BH

LOGGER CODE: ~~NA~~ SAIC JMD 6/27/94 FIELD REP: Jeff DeVaughn

FLAME IONIZATION DETECTOR INSTRUMENT:

MANUFACTURER: HNu MODEL NO.: PI 101

SERIAL NO.: 0015

DATE/TIME CALIBRATION 6/22/94 0700 ACCEPTANCE CODE: ~~NA~~ A JMD 6/27/94

CALIBRATION GASES			
TYPE/CYLINDER ID NO.		CONCENTRATION (PPM)	
1 Methane	39512	1	100.0
2	NA	2	NA

COMMENTS NONE

TIME (HH:MM)	SAMPLE ID	OBSERVED READING (ppm)					DRILLING DEPTH (ft)	COMMENTS
		DH	HS	BZ	D	OT		
08:55	B04001	0	NA ~~0~~ GL	NR ~~0~~ GL	NA ~~0~~ GL	NA	0-2 ft.	NONE
09:15	B04002	0	NA ~~0~~ GL	↓ ~~0~~ GL	NA ~~0~~ GL	NA	5-9 ft.	"
				LAST ENTRY				

ACCEPTANCE CODES: A - ACCEPTABLE, R - RECONNAISSANCE, U - UNACCEPTABLE, N - NOT DETERMINED

LOCATION TYPES:
BH - BOREHOLES
TP - TEST PIT
S - SOIL SAMPLE

SB - SAMPLE BOTTLE
L - SURFACE LOCATION
WL - WELL
OT - OTHER (EXPLAIN)

OBSERVED READING:
DH - DOWNHOLE
HS - HEADSPACE
BZ - BREATHING ZONE
D - DURING DRILLING (BZ)
OT - OTHER

COMPLETE BOLDED DATA FOR ENTRY INTO TIMS

Jeff DeVaughn 6/22/94 FORM COMPLETED BY / DATE

6/27/94 TECHNICAL REVIEWER / DATE

BOREHOLE OR WELL PLUGGING / ABANDONMENT

SOIL BORING

B04 P.31

PROJECT: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1

PROJECT NO.: 34896

SITE ID NUMBER: B04 DATE PLUGGED 06 / 22 / 94

SITE COORDINATES: N: NA E: NA DEPTH BLS (ft) 9.0 FT

TYPE OF CASING: N/A

CASING DIAMETER (ID) (in.) N/A GROUND ELEVATION (ft msl) N/A

SCREENED ELEVATION (ft msl) N/A

GEOLOGIC MATERIAL AT SCREEN N/A

AMOUNT OF CASING REMOVED (ft) N/A

PLUGGING MATERIAL Bentonite Grout

APPROX. VOLUME OF PLUGGING MATERIAL (cu ft.) ~~38~~ 3.1 w 6/22/94

PLUGGING METHOD Tremmie Pipe

REMARKS 3 - 50 lb BAGS CEMENT AND 1/2 - 50 lb BAG BENTONITE IN A 55 GALLON DRUM OF WATER IS ONE BATCH OF GROUT WHICH IS ABOUT 7 CUBIC FEET

LAST ENTRY

RECORDED BY: (Signature) QA CHECKED BY: 6/27/94 (Signature)

SOLID MATRICES

SOIL
- [01] Surface (0-6 inches)
- [02] Subsurface (>6 inches)
- [09] Other

SEDIMENT / SLUDGES
- [11] Lake/Pond
- [12] River/Stream
- [13] Impoundment/Pond
- [14] Drum/Tank
- [19] Other

AIR SAMPLE
- [21] Filter
- [22] Sorbent
- [23] Sweepings/Fugitive Dust
- [24] Gases
- [29] Other

BIOLOGICAL/TERRESTRIAL
- [31] Biota
- [39] Other

GEO-TECHNICAL
- [41] Retained on #40
- [42] Retained on #200
- [43] Passed through #200
- [49] Other

LIQUID MATRICES

SURFACE WATER
- [51] Lake/Pond
- [52] River/Stream
- [53] Impoundment/Pond
- [54] Discharge
- [55] Spring/Seep
- [59] Other

GROUND WATER
- [61] Abandoned Well
- [62] Extraction Well
- [63] Injection Well
- [64] Irrigation Well
- [65] Lysimeter
- [66] Monitoring Well
- [67] Observation Well
- [68] Piezometer
- [69] Other
- [6A] Public Water Supply
- [6B] Purge Well
- [6C] Test Well
- [6D] Vapor Well
- [6E] Leachate Well

CONTAINERIZED

SEALED	UNSEALED
[71] Drum/Tank	[81] Drum/Tank
[79] Other	[89] Other

SAMPLE LOG SHEET

PROJECT NAME: Mound Operational Area PROJECT NO: 2680 P.36

SAMPLE ID NUMBER: B04001 DATE COLLECTED (MM/DD/YY): 06/22/94 TIME (HH:MM): 08:55 A.M.

SAMPLING -

LOCATION CODE: MNDOA

DESCRIPTION: MOUND OPERATIONAL AREA

POINT CODE: B04

DESCRIPTION: OPERAIONAL AREA BORING #4

SAMPLE -

MEDIA CODE: 01

DESCRIPTION: Soil Surface (0 - 6 Inches)

DEPTH 0.00 TO ~~5.00~~ 2.00 FT

GC 6/22/94

36

SAMPLE TYPE:

- [X] GRAB
- [ ] TIME COMPOSITE
- [ ] QC RINSATE
- [ ] OTHER (SPECIFY)
- [ ] SPATIAL COMPOSITE
- [ ] QC TRIP BLANK
- [ ] QC FIELD BLANK

FIELD OBSERVATIONS:

Surface sample collected with bowl and spoon

SAMPLE COLLECTED: [X] YES [ ] NO

SAP SAMPLING PROCEDURE WAS FOLLOWED: [X] YES [ ] NO FIELD CHANGE ORDER REFERENCE NO: NA

IF SAP WAS NOT FOLLOWED, SPECIFY WHAT DEVIATIONS WERE NECESSARY AND WHY (INCLUDE FIELD CHANGE ORDER REFERENCE NO.):

NA

RECORDED BY: Debbie DeDonk QA CHECKED BY: [signature] 6/27/94

SAMPLE ID NUMBER: B04001

P. 37

CONTAINER VOLUME (ml)	CONTAINER TYPE	METHOD NAME AND NUMBER ANALYSIS	PRESERVATIVES (TYPE/VOL)	C-O-C #	AIR BILL #	CONTAINER LOT #	LABORATORY
1-120	WM Glass	CLPVOA	Cool,4C	OAC003	8219960162	See Container Lot # Log	COMPUC
1-250	AmbGlass	SVOC,PEST/PCB	Cool,4C				COMPUC
1-250	AmbGlass	EXPLOSIVES	Cool,4C				COMPUC
1-250	WM Glass	ANIONS Fl,SO4,Cl,NO2/NO3	Cool,4C				COMPUC
1-250	WM Glass	METALS,Cyanide	Cool,4C				COMPUC
1-120	Poly	LANTHANIDES	Cool,4C				COMPUC
1-120	AmbGlass	TOTAL ORGANIC CARBON	Cool,4C				COMPUC
2-250	WM GLASS	RADS Ac,Sr,H3,GAMMA	NONE				COMPUC
2-250	WM GLASS	RADS Pu,Th,U	NONE				COMPUC
		LAST ENTRY					

37

SAMPLE ID'S RINSATE: ER0001 TRIP BLANK: TBA003 FIELD BLANK: AB0001 SB 8-9 FIELD DUPLICATE: N/A

RECORDED BY: (SIGNATURE) QA CHECKED BY: 6/27/94 (SIGNATURE)

SAMPLE LOG SHEET

PROJECT NAME: Mound Operational Area **PROJECT NO:** 2680 P. 38

SAMPLE ID NUMBER: B04002 DATE COLLECTED (MM/DD/YY): 06/22/94 TIME (HH:MM): 09:15

SAMPLING -

LOCATION CODE: MNDOA

DESCRIPTION: MOUND OPERATIONAL AREA

POINT CODE: B04

DESCRIPTION: OPERAIONAL AREA BORING #4

SAMPLE -

MEDIA CODE: 02

DESCRIPTION: Soil Subsurface (>6 Inches)

DEPTH 5.0 TO 9.0 FT

38

SAMPLE TYPE:

- [X] GRAB
- [ ] TIME COMPOSITE
- [ ] QC RINSATE
- [ ] OTHER (SPECIFY)
- [ ] SPATIAL COMPOSITE
- [ ] QC TRIP BLANK
- [ ] QC FIELD BLANK

FIELD OBSERVATIONS:

Sample volume required extension of sampling interval (including duplicate B04102). Auger cuttings used for radiological samples in B04002 and B04102.

SAMPLE COLLECTED: [X] YES [ ] NO

SAP SAMPLING PROCEDURE WAS FOLLOWED: [X] YES [ ] NO FIELD CHANGE ORDER REFERENCE NO: NA

IF SAP WAS NOT FOLLOWED, SPECIFY WHAT DEVIATIONS WERE NECESSARY AND WHY (INCLUDE FIELD CHANGE ORDER REFERENCE NO.):

NA

RECORDED BY: (SIGNATURE) QA CHECKED BY: (SIGNATURE) 6/27/94

RECORDED BY: Jeff DeDaughn (SIGNATURE) QA CHECKED BY: Jeff (SIGNATURE) 6/27/94

SAMPLE ID NUMBER: B04002 P. 39

CONTAINER VOLUME (ml)	CONTAINER TYPE	METHOD NAME AND NUMBER ANALYSIS	PRESERVATIVES (TYPE/VOL)	C-O-C #	AIR BILL #	CONTAINER LOT #	LABORATORY
1-120	WM Glass	CLPVOA	Cool,4C	OBC003	B21996016J	See Container Lot # Log	COMPUC
1-250	AmbGlass	SVOC,PEST/PCB	Cool,4C				COMPUC
1-250	AmbGlass	EXPLOSIVES	Cool,4C				COMPUC
2/1-250	WM Glass	ANIONS Fl,SO4,Cl,N02/N03	Cool,4C				COMPUC
1-250	WM Glass	METALS,Cyanide	Cool,4C				COMPUC
1-120	Poly	LANTHANIDES	Cool,4C				COMPUC
1-120	AmbGlass	TOTAL ORGANIC CARBON	Cool,4C				COMPUC
2-250	WM GLASS	RADS Ac,Sr,H3,GAMMA	NONE				COMPUC
2-250	WM GLASS	RADS Pu,Th,U	NONE				COMPUC
		LAST ENTRY					

a Graph

39

SAMPLE ID'S RINSATE: ERB002 TRIP BLANK: TBA003 FIELD BLANK: AB0001 FIELD DUPLICATE: B04102

RECORDED BY: Jeff DeDaughn (SIGNATURE) QA CHECKED BY: Jeff (SIGNATURE) 6/27/94

SAMPLE LOG SHEET

PROJECT NAME: Mound Operational Area **PROJECT NO:** 2680 P. 66

SAMPLE ID NUMBER: B04021 DATE COLLECTED (MM/DD/YY): 06/22/94 TIME (HH:MM): 10:09

SAMPLING -

LOCATION CODE: MNDOA

DESCRIPTION: MOUND OPERATIONAL AREA

POINT CODE: B04

DESCRIPTION: OPERAIONAL AREA BORING #4

SAMPLE -

MEDIA CODE: 02

DESCRIPTION: Soil Subsurface (>6 Inches)

DEPTH 0.0 TO 2.0 FT

66

SAMPLE TYPE:

- [X] GRAB
- [ ] TIME COMPOSITE
- [ ] QC RINSATE
- [ ] OTHER (SPECIFY)
- [ ] SPATIAL COMPOSITE
- [ ] QC TRIP BLANK
- [ ] QC FIELD BLANK

FIELD OBSERVATIONS: Shelby Tube sample 1.5 ft. recovered
Surface sample put in bucket.

SAMPLE COLLECTED: [X] YES [ ] NO

SAP SAMPLING PROCEDURE WAS FOLLOWED: [X] YES [ ] NO FIELD CHANGE ORDER REFERENCE NO: NA

IF SAP WAS NOT FOLLOWED, SPECIFY WHAT DEVIATIONS WERE necessary AND WHY (INCLUDE FIELD CHANGE ORDER REFERENCE NO.):

NA

RECORDED BY: Jeff DeWandre (SIGNATURE) QA CHECKED BY: [signature] 9/27/94

RECORDED BY: Jeff DeWaard (SIGNATURE) QA CHECKED BY: [signature] 6/27/94 (SIGNATURE)

SAMPLE ID NUMBER: B04021 P. 67

CONTAINER VOLUME (ml)	CONTAINER TYPE	METHOD NAME AND NUMBER ANALYSIS	PRESERVATIVES (TYPE/VOL)	C-O-C #	AIR BILL #	CONTAINER LOT #	LABORATORY
1-0	SHELBY	GEOTECHNICAL	Cool,4C	NP5008	2169350702	NA	SINGLE
~~1-19~~	~~BUCKET~~	~~GEOTECHNICAL~~	~~Cool,4C~~				~~SINGLE~~
		LAST ENTRY					

SAMPLE ID'S RINSATE: N/A TRIP BLANK: N/A FIELD BLANK: N/A FIELD DUPLICATE: N/A

RECORDED BY: Jeff DeWaard (SIGNATURE) QA CHECKED BY: [signature] 6/27/94 (SIGNATURE)

67

SAMPLE LOG SHEET

PROJECT NAME: Mound Operational Area

PROJECT NO: 2680 P. 80

SAMPLE ID NUMBER: B04102 DATE COLLECTED (MM/DD/YY): 06/22/94 TIME (HH:MM): 09:15

SAMPLING -

LOCATION CODE: MNDOA

DESCRIPTION: Mound Operational Area

POINT CODE: B04

DESCRIPTION: Operational Area Boring #4

SAMPLE -

MEDIA CODE: 01

DESCRIPTION: Soil Surface (0 - 6 Inches)

DEPTH ~~0.00~~ 5.0 TO ~~5.00~~ 9.0 FT

80

SAMPLE TYPE:

- [X] GRAB
- [ ] SPATIAL COMPOSITE
- [ ] TIME COMPOSITE
- [ ] QC TRIP BLANK
- [ ] QC RINSATE
- [ ] QC FIELD BLANK
- [X] OTHER (SPECIFY) QC Field Duplicate

FIELD OBSERVATIONS: Duplicate of sample B04002

SAMPLE COLLECTED: [X] YES [ ] NO

SAP SAMPLING PROCEDURE WAS FOLLOWED: [X] YES [ ] NO FIELD CHANGE ORDER REFERENCE NO: NA

IF SAP WAS NOT FOLLOWED, SPECIFY WHAT DEVIATIONS WERE NECESSARY AND WHY (INCLUDE FIELD CHANGE ORDER REFERENCE NO.):

NA

RECORDED BY: [signature] (SIGNATURE) QA CHECKED BY: [signature] 6/27/94

RECORDED BY: [signature] (SIGNATURE) QA CHECKED BY: [signature] 6/27/94

SAMPLE ID NUMBER: P. 81

CONTAINER VOLUME (ml)	CONTAINER TYPE	METHOD NAME AND NUMBER ANALYSIS	PRESERVATIVES (TYPE/VOL)	C-O-C #	AIR BILL #	CONTAINER LOT #	LABORATORY
1-120	WM Glass	CLPVOA	Cool,4C	OAL003	8219960162	See Container Lot # Log	COMPUC
1-250	AmbGlass	SVOC,PEST/PCB	Cool,4C				COMPUC
1-250	AmbGlass	EXPLOSIVES	Cool,4C				COMPUC
2-250	WM Glass	ANIONS Fl,SO4,Cl,NO2/NO3	Cool,4C				COMPUC
1-250	WM Glass	METALS,Cyanide	Cool,4C				COMPUC
1-120	Poly	LANTHANIDES	Cool,4C				COMPUC
1-120	AmbGlass	TOTAL ORGANIC CARBON	Cool,4C				COMPUC
2-250	WM GLASS	RADS Ac,Sr,H3,GAMMA	NONE				COMPUC
2-250	WM GLASS	RADS Pu,Th,U	NONE				COMPUC
			LMT Entry				

SAMPLE ID'S RINSATE: ER0002 TRIP BLANK: TBA003 FIELD BLANK: AB0001 FIELD DUPLICATE: BD4002 ~~N/A~~ SB 8-10

RECORDED BY: [signature] (SIGNATURE) QA CHECKED BY: [signature] 6/27/94 (SIGNATURE)

81

TASK TEAM ACTIVITY LOG SHEET

B05 P.109

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1

TASK NO.: 34896

Date (mm/dd/yy): 6/22/94 TIME: 1230 PAGE 1 OF 2

Task Team Members:

GREG LODER	SAIC		DENNIS SINK	BM	
JEFF DEVAUGHN	SAIC		DWIGHT WORK	BM	
			JIM HAGAR	BM	

Narrative (include time and location):

GL 6/22/94

1230 ARRIVE AT ~~B16~~ B16. APPEARS LOCATION IS UNDER POWER LINES. JOHN DAVIS INDICATES THAT ~~WE~~ WE WILL HAVE TO CLEAR NEW LOCATION WITH MOUND, SO WE WILL MOVE TO B05 AND DO IT NOW.

1310 SET UP ON B05 HENRY AND JOYCE BOTH ~~HERE~~ RECIVE DIGGING PERMIT

1340 TAKE B05001, OVA = 0 PPM, LEL = 0 HERY GRABS HIS SAMPLES @ 0.5', 2.0, 3.5 AND 5.0'

1345 POUND SPOON FOR 4'-6' INTERVAL

1355 TAKE B05002, USING RINSATE ER000 SPOON AND BOWL. TOOK BOTTOM 1' FROM SPLIT SPOON CORRESPONG TO 5'-6' DEPTH OVA = 0 PPM LEL = 0

1408 DRILLED DOWN TO 6' TOOK SECOND SPOON FOR B05002 NOT ENOUGH SAMPLE FOR JARS HIT BEDROCK AT 7' WE WILL HAVE TO DO SECOND BOREHOLE TO COMPLETE SAMPLE

1445 MOVED RIG FORWARD DRILLING TO 5' TO SAMPLE 5'-7 INTERVAL

Daily Weather Conditions: A.M. NA

P.M. 90°F SUNNY HUMID

Recorded By [signature] QA Checked By [signature] 6/27/94

TASK TEAM ACTIVITY LOG SHEET

SOIL BORING
B05 P. 110
TASK NO.: 34896

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1

Date (mm/dd/yy): 6/22/94 TIME : NA : PAGE 2 OF 2

Task Team Members:

SEE PAGE 109

Narrative (include time and location):

1458 HIT ROCK AT 5.0' WE WILL USE SOME AUGER CUTTINGS TO COMPLETE SAMPLE, USING THEM IN RADIOLOGICAL SAMPLE JARS

1510 GROUT BOREHOLES

1525 LEAVE SITE TNA = 0.14 FOR AIR MONITORING

LAST ENTRY

Daily Weather Conditions: A.M. NA

P.M. 92°F SUNNY HUMID

Recorded By [signature] QA Checked By [signature] 6/27/94

BOREHOLE LOG (SOIL) — SOIL BORING

B05 P.119

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 — PROJECT NO: 34896

JHD 6/29/94

Page 1 of 2

FACILITY CODE: ~~NA~~ MND21

LOCATION ID: B05

COORDINATES (FT):

NORTH NA EAST NA

GROUND ELEVATION (FT MSL) JHD 6/27/94

LOCATION TYPE: ~~NA~~ BH

COMMENTS: NONE

DRILLER CODE: JHD 6/27/94 ~~NA~~ BOWS

COMPLETION DATE 6/22/1994

DIAMETER (IN): 8"

DEPTH (FTFD): 7.0'

CONSTRUCTION METHOD: B

ACCEPTANCE CODE: ~~NA~~ A JHD 6/27/94

GROUNDWATER LEVELS

DATE	TIME	DEPTH (FT)
NONE ENCOUNTERED		

LOCATION DESCRIPTION

ON HILLSIDE ON EAST SIDE OF PARKING LOT IN AREA 7

LITHOLOGIC LOG

LOGGER CODE: JHD 6/29/94 ~~NA~~ SAIC

DEPTH (FT)	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE RETAINED	SAMPLE METHOD	SAMPLE ID	BLOW COUNT (PER 6 IN)	N VALUE	USCS	VISUAL DESCRIPTIONS
~~1~~ 0	0-2	BOWL	FULL	O	B05B01	NA	NA	SP	SILT, SOME GRAVEL. DRY, LOO
6/22/94									10 YR 4/1 DARK GREY
									RETAINED SOME IN BUCKET
									FOR GEOPHYSICAL COLLECTED
									WITH SPOON AND ~~SPOON~~ 6/22/94 BOWL
6/22/94 ~~3~~	2-4	1.2	0	U	NA	19/32/30/45	75	SP	2'-3' SAME AS ABOVE
								CL	3'-4' CLAY TRACE FINE SAND
									FIRM DRY TRACE PEBBLES
									5GY5 GRAY
		6/22/94							
	~~4-6~~	~~0.4~~	~~0.3~~	~~U~~	~~B05B02~~	~~24/31/49/50~~			~~CLAY TRACE PEBBLES FIRM~~
									~~DRY NONPLASTIC 5GY5 GRAY~~

ACCEPTANCE CODES: A - ACCEPTABLE, R - RECONNAISSANCE, U - UNACCEPTABLE, N - NOT DETERMINED

CONSTRUCTION METHODS:

A - AIR ROTARY
B - BORED OR AUGERED
C - CABLE - TOOL
D - DUG
H - HYDRAULIC - ROTORY
J - JETTED
P - AIR - PERCUSSION
R - REVERSE ROTERY
T - TRENCHING
V - DRIVEN
W - DRIVE AND WASH
Z - OTHER (SPECIFY)

SAMPLE METHODS:

A - AUGER CUTTINGS
S - 2" O.D. 1.38" I.D. DRIVE SAMPLES
U - 3" O.D. 2.42" I.D. TUBE SAMPLES
T - 3" O.D. THIN-WALLED SHELBY TUBE
O - OTHER (SPECIFY)

COMPLETE BOLDED DATA FOR ENTRY INTO TIMS

6/22/94 — FORM COMPLETED BY / DATE

6/27/94 — TECHNICAL REVIEWER / DATE

BOREHOLE LOG (SOIL)

B05 P120

SOIL BO

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1

PROJECT NO:

JMD 6/27/94

JMD 6/27/94

FACILITY CODE: ~~NA~~ MND21

DRILLER CODE: ~~NA~~ BOWS

LOCATION ID: B05

COMPLETION DATE 6 / 22/1994

LITHOLOGIC LOG

DEPTH (FT)	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE RETAINED	SAMPLE METHOD	SAMPLE ID	BLOW COUNT (PER 6 IN)	N VALUE	USCS	VISUAL DESCRIPTIONS
6	4-6	2.0	1.0	U	B05002	19/24/36/41	77	CL	CLAY VERY FIRM DRY
									5'-6' SECTION OF CORE RETAINED
									FOR SAMPLE
7	6-7	0.5	0.5	U	B05002	27/48	67	CL	SAME AS ABOVE BEDROCK
									AT 7.0' WEATHERED
									SHALE - LAMINATED, LIMESTONE
									FRAGMENTS
SECOND BOREHOLE									
5	5-7	0	0	U	ND				HIT BEDROCK @ 5.0
						LAST ENTRY			

COMPLETE BOLDED DATA FOR ENTRY INTO TIMS

FORM COMPLETED BY / DATE 6/27/94

TECHNICAL REVIEWER 6/27/94

COMBUSTIBLE GAS INDICATOR (CGI) MONITORING DATA

SOIL BORING B05 p. 135

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1

PROJECT NO: 34896

FACILITY CODE: MND21

LOG DATE: 6/22/94

LOGGER CODE: SAIC

FIELD REP: Jeff DeVaughn

CGI MANUFACTURER: Industrial Scientific

CGI MODEL NO.: MX 251

SERIAL NO.: 7470

CALIBRATION DATE/TIME: 6/22/94 0700

ACCEPTANCE CODE: A

BATTERY CONDITION OK

CALIBRATION GAS (%LEL)

TYPE Pentane CONCENTRATION 50 % LEL CYLINDER SERIAL NO 39731

CALIBRATION GAS (PPM)

TYPE NA CONCENTRATION NA PPM CYLINDER SERIAL NO NA

COMMENTS: NONE

LOCATION ID OR DESCRIPTION	COORDINATES FT NORTH	COORDINATES FT EAST	MONITORING TIME (HH:MM)	LOCATION TYPE	% LOWER EXPLOSIVE LIMIT	PPM	% OXYGEN
B05	NA	NA	13:40	BH	Ø	NA	21
↓	"	"	13:55	BH	Ø	NA	21
			LAST ENTRY				

ACCEPTANCE CODES: A - ACCEPTABLE, R - RECONNAISSANCE, U - UNACCEPTABLE, N - NOT DETERMINED

LOCATION TYPES: BH - BOREHOLE SL - SURFACE LOCATION TP - TEST PIT WL - WELL

COMPLETE BOLDED DATA FOR ENTRY INTO TIMS

Jeff DeVaughn 6/22/94 FORM COMPLETED BY / DATE

Tony 6/22/94 TECHNICAL REVIEWER / DATE

FLAME IONIZATION DETECTOR FIELD DATA

SOIL BORING 305 P. 137

PROJECT NAME: EG&G MOUND OU5 OPERAIONAL AREA, PHASE 1 PROJECT NO: 34896

FACILITY CODE: MND21 LOG DATE: 6/22/94

LOCATION ID 305 LOCATION TYPE: BH

LOGGER CODE: SAIC FIELD REP: Jeff DeVaughn

FLAME IONIZATION DETECTOR INSTRUMENT:

MANUFACTURER: ~~Photovac~~ JD 6/23/94 HNu MODEL NO.: ~~HNU~~ JD 6/23/94 PI 101

SERIAL NO.: 0015

DATE/TIME CALIBRATION 6/22/94 0700 ACCEPTANCE CODE: A

CALIBRATION GASES			
TYPE/CYLINDER ID NO.		CONCENTRATION (PPM)	
1 Methane	39562	1	100.0
2	NA	2	NA

COMMENTS NONE

TIME (HH:MM)	SAMPLE ID	OBSERVED READING (ppm)					DRILLING DEPTH (ft)	COMMENTS
		DH	HS	BZ	D	OT		
13:40	B05001	0	0	0	0	NA	0-2 ft.	NONE
13:55	B05002	0	0	0	0	NA	5-7 ft.	"
				LAST ENTRY				

ACCEPTANCE CODES: A - ACCEPTABLE, R - RECONNAISSANCE, U - UNACCEPTABLE, N - NOT DETERMINED

LOCATION TYPES:
- BH - BOREHOLES
- TP - TEST PIT
- SS - SOIL SAMPLE
- SB - SAMPLE BOTTLE
- L - SURFACE LOCATION
- WL - WELL
- OT - OTHER (EXPLAIN)

OBSERVED READING:
- DH - DOWNHOLE
- HS - HEADSPACE
- BZ - BREATHING ZONE
- D - DURING DRILLING (BZ)
- OT - OTHER

COMPLETE BOLDED DATA FOR ENTRY INTO TIMS

Jeff DeVaughn 6/22/94 — FORM COMPLETED BY / DATE

[illegible] 6/27/94 — TECHNICAL REVIEWER / DATE

BOREHOLE OR WELL PLUGGING / ABANDONMENT

SOIL BORING

B05 P. 139

PROJECT: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1

PROJECT NO.: 34896

SITE ID NUMBER: B05 DATE PLUGGED 6 / 22 / 94

SITE COORDINATES: N: NA E: NA DEPTH BLS (ft) 7.0

TYPE OF CASING: NA

CASING DIAMETER (ID) (in.) NA GROUND ELEVATION (ft msl) NA

SCREENED ELEVATION (ft msl) NA

GEOLOGIC MATERIAL AT SCREEN NA

AMOUNT OF CASING REMOVED (ft) NA

PLUGGING MATERIAL BENTONITE GROUT

APPROX. VOLUME OF PLUGGING MATERIAL (cu ft.) ~~2.1~~ 2.4 GC 6/22/94

PLUGGING METHOD TREMIED THROUGH AUGERS

REMARKS 3 - 50 lb BAG CEMENT AND 1/2 - 50 lb BAG BENTONITE IN A 55 GALLON DRUM OF WATER IS ONE BATCH GROUT AND IS ABOUT 7 CUBIC FEET

LAST ENTRY

RECORDED BY: [signature] (Signature) QA CHECKED BY: [signature] 6/27/94 (Signature)

SOLID MATRICES

SOIL
- [01] Surface (0-6 inches)
- [02] Subsurface (>6 inches)
- [09] Other

SEDIMENT / SLUDGES
- [11] Lake/Pond
- [12] River/Stream
- [13] Impoundment/Pond
- [14] Drum/Tank
- [19] Other

AIR SAMPLE
- [21] Filter
- [22] Sorbent
- [23] Sweepings/Fugitive Dust
- [24] Gases
- [29] Other

BIOLOGICAL/TERRESTRIAL
- [31] Biota
- [39] Other

GEO-TECHNICAL
- [41] Retained on #40
- [42] Retained on #200
- [43] Passed through #200
- [49] Other

LIQUID MATRICES

SURFACE WATER
- [51] Lake/Pond
- [52] River/Stream
- [53] Impoundment/Pond
- [54] Discharge
- [55] Spring/Seep
- [59] Other

GROUND WATER
- [61] Abandoned Well
- [62] Extraction Well
- [63] Injection Well
- [64] Irrigation Well
- [65] Lysimeter
- [66] Monitoring Well
- [67] Observation Well
- [68] Piezometer
- [69] Other
- [6A] Public Water Supply
- [6B] Purge Well
- [6C] Test Well
- [6D] Vapor Well
- [6E] Leachate Well

CONTAINERIZED

SEALED	UNSEALED
[71] Drum/Tank	[81] Drum/Tank
[79] Other	[89] Other

SAMPLE LOG SHEET

PROJECT NAME: Mound Operational Area **PROJECT NO:** 2680 P. 144

SAMPLE ID NUMBER: B05001 DATE COLLECTED (MM/DD/YY): 06/22/94 TIME (HH:MM): 13:40

SAMPLING -

LOCATION CODE: MNDOA

DESCRIPTION: MOUND OPERATIONAL AREA

POINT CODE: B05

DESCRIPTION: OPERAIONAL AREA BORING #5

SAMPLE -

MEDIA CODE: 01

DESCRIPTION: Soil Surface (0 - 6 Inches)

DEPTH 0.00 TO ~~5.00~~ 2.00 FT

144

SAMPLE TYPE:

- [X] GRAB
- [ ] TIME COMPOSITE
- [ ] QC RINSATE
- [ ] OTHER (SPECIFY)
- [ ] SPATIAL COMPOSITE
- [ ] QC TRIP BLANK
- [ ] QC FIELD BLANK

FIELD OBSERVATIONS: Sample collected with bowl and spoon.

SAMPLE COLLECTED: [X] YES [ ] NO

SAP SAMPLING PROCEDURE WAS FOLLOWED: [X] YES [ ] NO FIELD CHANGE ORDER REFERENCE NO: NA

IF SAP WAS NOT FOLLOWED, SPECIFY WHAT DEVIATIONS WERE NECESSARY AND WHY (INCLUDE FIELD CHANGE ORDER REFERENCE NO.):

NA

RECORDED BY: (SIGNATURE) QA CHECKED BY: 6/27/94 (SIGNATURE)

NA

RECORDED BY: [signature] (SIGNATURE) QA CHECKED BY: [signature] 6/27/94

SAMPLE ID NUMBER: B05001 P.145

CONTAINER VOLUME (ml)	CONTAINER TYPE	METHOD NAME AND NUMBER ANALYSIS	PRESERVATIVES (TYPE/VOL)	C-O-C #	AIR BILL #	CONTAINER LOT #	LABORATORY
1-120	WM Glass	CLPVOA	Cool,4C	OAC003	8219960162		COMPUC
1-250	AmbGlass	SVOC,PEST/PCB	Cool,4C			See Container Lot # Log	COMPUC
1-250	AmbGlass	EXPLOSIVES	Cool,4C				COMPUC
1-250	WM Glass	ANIONS Fl,SO4,Cl,N02/N03	Cool,4C				COMPUC
1-250	WM Glass	METALS,Cyanide	Cool,4C				COMPUC
1-120	Poly	LANTHANIDES	Cool,4C				COMPUC
1-120	AmbGlass	TOTAL ORGANIC CARBON	Cool,4C				COMPUC
2-250	WM GLASS	RADS Ac,Sr,H3,GAMMA	NONE				COMPUC
2-250	WM GLASS	RADS Pu,Th,U	NONE				COMPUC
		LAST ENTRY					

SAMPLE ID'S RINSATE: FR0001 TRIP BLANK: TBA003 FIELD BLANK: AB0001 FIELD DUPLICATE: N/A

RECORDED BY: [signature] (SIGNATURE) QA CHECKED BY: [signature] 6/27/94 (SIGNATURE)

145

SAMPLE LOG SHEET

PROJECT NAME: Mound Operational Area **PROJECT NO:** 2680 P. 146

SAMPLE ID NUMBER: B05002 DATE COLLECTED (MM/DD/YY): 06/22/94 TIME (HH:MM): 13:55

SAMPLING -

LOCATION CODE: MNDOA

DESCRIPTION: MOUND OPERATIONAL AREA

POINT CODE: B05

DESCRIPTION: OPERAIONAL AREA BORING #5

SAMPLE -

MEDIA CODE: 02

DESCRIPTION: Soil Subsurface (>6 Inches)

DEPTH 5.0 TO 7.0 FT

SAMPLE TYPE:

- [X] GRAB
- [ ] TIME COMPOSITE
- [ ] QC RINSATE
- [ ] OTHER (SPECIFY)
- [ ] SPATIAL COMPOSITE
- [ ] QC TRIP BLANK
- [ ] QC FIELD BLANK

FIELD OBSERVATIONS:

Attempted to complete 2nd borehole for 5.0 to 7.0 sampling depth, but hit bedrock at 5.0 ft.
As a result, auger cuttings were used for radiological samples.

SAMPLE COLLECTED: [X] YES [ ] NO

SAP SAMPLING PROCEDURE WAS FOLLOWED: [X] YES [ ] NO FIELD CHANGE ORDER REFERENCE NO: NA

IF SAP WAS NOT FOLLOWED, SPECIFY WHAT DEVIATIONS WERE NECESSARY AND WHY (INCLUDE FIELD CHANGE ORDER REFERENCE NO.):

NA

RECORDED BY: (SIGNATURE) QA CHECKED BY: (SIGNATURE) 6/27/94

146

RECORDED BY: [signature] (SIGNATURE) QA CHECKED BY: [signature] 6/27/94 (SIGNATURE)

SAMPLE ID NUMBER: B050002 P. 147

CONTAINER VOLUME (ml)	CONTAINER TYPE	METHOD NAME AND NUMBER ANALYSIS	PRESERVATIVES (TYPE/VOL)	C-O-C #	AIR BILL #	CONTAINER LOT #	LABORATORY
1-120	WM Glass	CLPVOA	Cool,4C	OAC003	B21996016	See Container Lot # Log	COMPUC
1-250	AmbGlass	SVOC,PEST/PCB	Cool,4C				COMPUC
1-250	AmbGlass	EXPLOSIVES	Cool,4C				COMPUC
2-250	WM Glass	ANIONS Fl,SO4,Cl,NO2/NO3	Cool,4C				COMPUC
1-250	WM Glass	METALS,Cyanide	Cool,4C				COMPUC
1-120	Poly	LANTHANIDES	Cool,4C				COMPUC
1-120	AmbGlass	TOTAL ORGANIC CARBON	Cool,4C				COMPUC
2-250	WM GLASS	RADS Ac,Sr,H3,GAMMA	NONE				COMPUC
2-250	WM GLASS	RADS Pu,Th,U	NONE				COMPUC
			LAST ENTRY				

147

SAMPLE ID'S RINSATE: ER0002 TRIP BLANK: TB0003 FIELD BLANK: AB0001 FIELD DUPLICATE: N/A

RECORDED BY: [signature] (SIGNATURE) QA CHECKED BY: [signature] 6/27/94 (SIGNATURE)

TASK TEAM ACTIVITY LOG SHEET

SOIL BORING
B06 P. 217
TASK NO.: 34896

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1

Date (mm/dd/yy): 7/22/94 TIME: 0750 PAGE 1 OF 1

Task Team Members:

GREG LODER SAIC
GEORGE WAHL SAIC
DENNIS SINK BM
DWIGHT WORK BM

Narrative (include time and location):

0750 ON SITE AFTER GROUTING BH
0810 HENRY ON SITE W/ PERMIT DRILLERS SET UP
0828 TAKE B06.001 OVA = 60 PPM BH LEL = 0
OVA = 0 PPM BZ
0834 PULL SPOON FROM 2 - 4 OVA = 170 BH LEL = 0
OVA = 0 BZ
OVA = 170 BH W/ METHANE TIP
0845 PULL SPOON FROM 4 - 6 OVA = 250 PPM BH LEL = 0
BEGIN B06002 OVA = 0 BZ
0853 PULL SPOON FROM 6 - 8 OVA = 2 PPM BH LEL = 0
0901 " " " 8 - 10 OVA = 3 PPM BH LEL = 0
0921 " " " 10 - 12 OVA = 1 PPM BH LEL = 0 BEGIN B06003
0933 " " " 12 - 14 OVA = 0 LEL = 0
0948 " " " 14 - 16 OVA = 0 LEL = 0
0953 HIT BEDROCK @ 16.0' LAST SPOON SATURATED
1005 WATER @ 14.5' WON'T BE ENOUGH TO SAMPLE
1007 BEGIN GROUTING
1045 FINISH GROUTING RIG HEADS TO DECON
1100 LEAVE SITE BREAK FOR LUNCH TNA = 0.09

Daily Weather Conditions: A.M. 75°F OVERCAST CHANCE OF RAIN
P.M. NA

Recorded By [signature] QA Checked By [signature] 7/26/94

BOREHOLE LOG (SOIL) — SOIL BORING

B06 p.227

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 — PROJECT NO: 34896

Page 1 of 2

FACILITY CODE: MND21
LOCATION ID: B06
COORDINATES (FT):
NORTH NA EAST NA
GROUND ELEVATION (FT MSL)
LOCATION TYPE: BH
COMMENTS: NONE

DRILLER CODE: BOWS
COMPLETION DATE 6 / 22/19 94
DIAMETER (IN): 8
DEPTH (FTFD): 16.0
CONSTRUCTION METHOD: B
ACCEPTANCE CODE: A

GROUNDWATER LEVELS

DATE	TIME	DEPTH (FT)
7-22-94	1005	14.5

NOTE: NOT ENOUGH H2O TO SAMPLE

LOCATION DESCRIPTION

FAR SIDE OF PARKING LOT FROM EAST SIDE OF FIRESTATION

LITHOLOGIC LOG

LOGGER CODE: SAK

DEPTH (FT)	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE RETAINED	SAMPLE METHOD	SAMPLE ID	BLOW COUNT (PER 6 IN)	N VALUE	USCS	VISUAL DESCRIPTIONS
Ø	0-2	FULL	FULL	O	B06001	NA	NA	CL	CLAY TRACE FINE TO COARS
									SAND AND GRAVEL POORLY
									SORTED ANGULAR TO ROUNDED
									UP TO 15 mm SOFT MOIST
									PLASTIC 2.5 Y 4/1 DARK GRAY
	2-4	1.8	Ø	~~NAU~~	NA	9/32/29/21	50	CL	2-3 SAME AS ABOVE
3				on 7/22/94				CL	3-4 CLAY SOME SILT TRACE
									FINE SAND GRAVEL AND
									COBBLES POORLY SORTED
									ANGULAR TO 25 mm DRY FIRM
									NON PLASTIC VARIAGATED

ACCEPTANCE CODES: A - ACCEPTABLE, R - RECONNAISSANCE, U - UNACCEPTABLE, N - NOT DETERMINED

CONSTRUCTION METHODS:
A - AIR ROTARY
B - BORED OR AUGERED
C - CABLE - TOOL
D - DUG
H - HYDRAULIC - ROTORY
J - JETTED
P - AIR - PERCUSSION
R - REVERSE ROTERY
T - TRENCHING
V - DRIVEN
W - DRIVE AND WASH
Z - OTHER (SPECIFY)

SAMPLE METHODS:
A - AUGER CUTTINGS
S - 2" O.D. 1.38" I.D. DRIVE SAMPLES
U - 3" O.D. 2.42" I.D. TUBE SAMPLES
T - 3" O.D. THIN-WALLED SHELBY TUBE
O - OTHER (SPECIFY)

COMPLETE BOLDED DATA FOR ENTRY INTO TIMS

7/22/94 — FORM COMPLETED BY / DATE

7/26/94 — TECHNICAL REVIEWER / DATE

BOREHOLE LOG (SOIL)

SOIL BO
B06 P. 228
PROJECT NO:

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1

FACILITY CODE: MNDZ1
LOCATION ID: B06

DRILLER CODE: BOWS
COMPLETION DATE 6 / 22/1994

LITHOLOGIC LOG

DEPTH (FT)	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE RETAINED	SAMPLE METHOD	SAMPLE ID	BLOW COUNT (PER 6 IN)	N VALUE	USCS	VISUAL DESCRIPTIONS
	4-6	2.0	2.0	U	B06002	11/19/29/36	65	CL	SAME AS PREVIOUS DESCRIPTI
	6-8	0	0	U	NA	49/36/51/40	91	NA	NO RECOVERY
	8-10 SECOND STOON	0.3	0.3	U	B06002	31/26/45/41	86	CL	SAME AS PREVIOUS DESCRIPTION
10	10-12	0.6	0.6	U	B06003	42/40/31/63	94	CL	CLAY SOME ~~FINE SAND~~ SILT 7/22/94
									TRACE FINE SAND AND GRAVEL
									POORLY SORTED ANGULAR TO 10 mm
									DRY FIRM NONPLASTIC
									5 Y 5/2 OLIVE GRAY
	12-14	0	0	U	NA	55/100/3	155		NO RECOVERY
14	14-16	1.0	1.0	U	~~B06004~~ B06005	44/30/19/22	41	14-15 CH	CLAY SOME GRAVEL AND COBBLES POORLY SORTED
									ANGULAR UP TO 35 mm SOFT
									WET VERY PLASTIC
15								GC	15-16 CLAY, COARSE SAND,
									GRAVEL, AND COBBLES,
									POORLY SORTED ANGULAR UP
									TO 40 mm WET, SOFT, PLASTIC
									WEATHERED LIMESTONE FRAGMENTS
									AND LAMINATED WEATHERED
									SHALE FRAGMENT IN TIP
16.0									BEDROCK
									WATER @ 14.5
				LAST ENTRY					

COMPLETE BOLDED DATA FOR ENTRY INTO TIMS

7/22/94 — FORM COMPLETED BY / DATE

7/26/94 — TECHNICAL REVIEWER /

COMBUSTIBLE GAS INDICATOR (CGI) MONITORING DATA

SOIL BORING B06 P. 243

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1

PROJECT NO: 34896

ACTIVITY CODE: MN021

LOG DATE: 7/22/94

LOGGER CODE: SAIC

FIELD REP: G. LODER

CGI MANUFACTURER: INDUSTRIAL SCIENTIFIC

CGI MODEL NO.: MX251

SERIAL NO.: 7470

CALIBRATION DATE/TIME: 7/22/94 0700

ACCEPTANCE CODE: A

BATTERY CONDITION GOOD

CALIBRATION GAS (%LEL)

TYPE PENTANE CONCENTRATION 35 % LEL CYLINDER SERIAL NO RR-34825

CALIBRATION GAS (PPM)

TYPE NA CONCENTRATION NA PPM CYLINDER SERIAL NO NA

COMMENTS: NONE

LOCATION ID OR DESCRIPTION	COORDINATES FT NORTH	COORDINATES FT EAST	MONITORING TIME (HH:MM)	LOCATION TYPE	% LOWER EXPLOSIVE LIMIT	PPM	% OXYGEN
B06	NA	NA	0828	BH	Ø	NA	21
			0834		Ø		21
			0845		Ø		21
			0853		Ø		21
			0901		Ø		21
		NA	0921 ~~LAST ENTRY~~	JAD 7/26/94	Ø		21
			0933		Ø		21
			0948		Ø		21
			Last Entry				

ACCEPTANCE CODES: A - ACCEPTABLE, R - RECONNAISSANCE, U - UNACCEPTABLE, N - NOT DETERMINED

LOCATION TYPES: BH - BOREHOLE SL - SURFACE LOCATION TP - TEST PIT WL - WELL

COMPLETE BOLDED DATA FOR ENTRY INTO TIMS

7/22/94 FORM COMPLETED BY / DATE

7/26/94 TECHNICAL REVIEWER / DATE

FLAME IONIZATION DETECTOR FIELD DATA

SOIL BORING B06 P.245

PROJECT NAME: EG&G MOUND OU5 OPERAIONAL AREA, PHASE 1

PROJECT NO: 34896

FACILITY CODE: MNDZI

LOG DATE: 7/22/94

LOCATION ID B06

LOCATION TYPE: BH, BZ

LOGGER CODE: SAIC

FIELD REP: GLODER

FLAME IONIZATION DETECTOR INSTRUMENT:

MANUFACTURER: FOXBORO

MODEL NO.: 128

SERIAL NO.: 40694

DATE/TIME CALIBRATION 7/22/94 0700

ACCEPTANCE CODE: A

CALIBRATION GASES	
TYPE/CYLINDER ID NO.	CONCENTRATION (PPM)
1 METHANE / 32875	1 100
2 NA	2 NA

COMMENTS NONE

TIME (HHMM)	SAMPLE ID	OBSERVED READING (ppm) DH	HS	BZ	D	METHANE TIP ~~OT~~	DRILLING DEPTH (ft)	COMMENTS
0828	B06001	60	NA	0	NA	NA	2	NONE
0834	NA	170		0		170	4	
0845	B06002	250		0		NR	6	
0853	"	2		NR			8	
0901	"	3					10	
0921	B06003	1					12	
0933	"	0					14	
0948	"	0					16	
		LAST ENTRY						

ACCEPTANCE CODES: A - ACCEPTABLE, R - RECONNAISSANCE, U - UNACCEPTABLE, N - NOT DETERMINED

LOCATION TYPES:		OBSERVED READING:	
1. BOREHOLES	SB - SAMPLE BOTTLE	DH - DOWNHOLE	BZ - BREATHING ZONE
2. TEST PIT	L - SURFACE LOCATION	HS - HEADSPACE	D - DURING DRILLING (BZ)
3. SOIL SAMPLE	WL - WELL		OT - OTHER
	OT - OTHER (EXPLAIN)		

COMPLETE BOLDED DATA FOR ENTRY INTO TIMS

7/22/94
FORM COMPLETED BY / DATE

7/28/94
TECHNICAL REVIEWER / DATE

BOREHOLE OR WELL PLUGGING / ABANDONMENT

SOIL BORING

B06 P.247

PROJECT: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1

PROJECT NO.: 34896

SITE ID NUMBER: B06 DATE PLUGGED 7 / 22 / 94

SITE COORDINATES: N: NA E: NA DEPTH BLS (ft) 16.0

TYPE OF CASING: NA

CASING DIAMETER (ID) (in.) NA GROUND ELEVATION (ft msl) NA

SCREENED ELEVATION (ft msl) NA

GEOLOGIC MATERIAL AT SCREEN NA

AMOUNT OF CASING REMOVED (ft) NA

PLUGGING MATERIAL BENTONITE GROUT

APPROX. VOLUME OF PLUGGING MATERIAL (cu ft.) 5.6

PLUGGING METHOD TREMIE THROUGH AUGERS

REMARKS ONE BATCH GROUT IS 3 - 50 lb BAGS CEMENT AND ½ - 50 lb BAG BENTONITE IN 55 GALLONS WATER WHICH IS ABOUT 7.4 ft³

LAST ENTRY

RECORDED BY: [signature] (Signature) QA CHECKED BY: [signature] 7/26/94 (Signature)

SOLID MATRICES

SOIL
- [01] Surface (0-6 inches)
- [02] Subsurface (>6 inches)
- [09] Other

SEDIMENT / SLUDGES
- [11] Lake/Pond
- [12] River/Stream
- [13] Impoundment/Pond
- [14] Drum/Tank
- [19] Other

AIR SAMPLE
- [21] Filter
- [22] Sorbent
- [23] Sweepings/Fugitive Dust
- [24] Gases
- [29] Other

BIOLOGICAL/TERRESTRIAL
- [31] Biota
- [39] Other

GEO-TECHNICAL
- [41] Retained on #40
- [42] Retained on #200
- [43] Passed through #200
- [49] Other

LIQUID MATRICES

SURFACE WATER
- [51] Lake/Pond
- [52] River/Stream
- [53] Impoundment/Pond
- [54] Discharge
- [55] Spring/Seep
- [59] Other

GROUND WATER
- [61] Abandoned Well
- [62] Extraction Well
- [63] Injection Well
- [64] Irrigation Well
- [65] Lysimeter
- [66] Monitoring Well
- [67] Observation Well
- [68] Piezometer
- [69] Other
- [6A] Public Water Supply
- [6B] Purge Well
- [6C] Test Well
- [6D] Vapor Well
- [6E] Leachate Well

CONTAINERIZED

SEALED	UNSEALED
[71] Drum/Tank	[81] Drum/Tank
[79] Other	[89] Other

SAMPLE LOG SHEET

PROJECT NAME: Mound Operational Area **PROJECT NO:** 2680 P.254

SAMPLE ID NUMBER: B06002 DATE COLLECTED (MM/DD/YY): 7/22/94 TIME (HH:MM): 0845

SAMPLING -

LOCATION CODE: MNDOA

DESCRIPTION: MOUND OPERATIONAL AREA

POINT CODE: B06

DESCRIPTION: OPERAIONAL AREA BORING #6

SAMPLE -

MEDIA CODE: 02

DESCRIPTION: Soil Subsurface (>6 Inches)

DEPTH 5.00 TO 10.00 FT

254

SAMPLE TYPE:

- [X] GRAB
- [ ] TIME COMPOSITE
- [ ] QC RINSATE
- [ ] OTHER (SPECIFY)
- [ ] SPATIAL COMPOSITE
- [ ] QC TRIP BLANK
- [ ] QC FIELD BLANK

FIELD OBSERVATIONS: NONE

SAMPLE COLLECTED: [X] YES [ ] NO

SAP SAMPLING PROCEDURE WAS FOLLOWED: [X] YES [ ] NO FIELD CHANGE ORDER REFERENCE NO: NA

IF SAP WAS NOT FOLLOWED, SPECIFY WHAT DEVIATIONS WERE NECESSARY AND WHY (INCLUDE FIELD CHANGE ORDER REFERENCE NO.):

NA

RECORDED BY: [signature] (SIGNATURE) QA CHECKED BY: [signature] 7/28/94 (SIGNATURE)

RECORDED BY: [illegible] (SIGNATURE) QA CHECKED BY: [illegible] 7/28/94 (SIGNATURE)

SAMPLE ID NUMBER: B00002 p. 255

CONTAINER VOLUME (ml)	CONTAINER TYPE	METHOD NAME AND NUMBER ANALYSIS	PRESERVATIVES (TYPE/VOL)	C-O-C #	AIR BILL #	CONTAINER LOT #	LABORATORY
1-120	WM Glass	CLPVOA	Cool,4C	OAC018	8219959742	SEE CONTAINER LOT # LOG	COMPUC
1-250	AmbGlass	SVOC,PEST/PCB	Cool,4C				COMPUC
1-250	AmbGlass	EXPLOSIVES	Cool,4C				COMPUC
2-250	WM Glass	ANIONS Fl,SO4,Cl,N02/N03	Cool,4C				COMPUC
1-250	WM Glass	METALS,Cyanide	Cool,4C				COMPUC
1-120	Poly	LANTHANIDES	Cool,4C				COMPUC
1-120	AmbGlass	TOTAL ORGANIC CARBON	Cool,4C				COMPUC
2-250	WM GLASS	RADS Ac,Sr,H3,GAMMA	NONE				COMPUC
2-250	WM GLASS	RADS Pu,Th,U	NONE				COMPUC
			LAST ENTRY				

255

SAMPLE ID'S RINSATE: ER0008 TRIP BLANK: TBA018 FIELD BLANK: AB0005 FIELD DUPLICATE: NA

RECORDED BY: [illegible] (SIGNATURE) QA CHECKED BY: [illegible] 7/28/94 (SIGNATURE)

SAMPLE LOG SHEET

PROJECT NAME: Mound Operational Area **PROJECT NO:** 2680 P. 256

SAMPLE ID NUMBER: B06003 DATE COLLECTED (MM/DD/YY): 7/22/94 TIME (HH:MM): 0921

SAMPLING -

LOCATION CODE: MNDOA

DESCRIPTION: MOUND OPERATIONAL AREA

POINT CODE: B06

DESCRIPTION: OPERAIONAL AREA BORING #6

SAMPLE -

MEDIA CODE: 02

DESCRIPTION: Soil Subsurface (>6 Inches)

DEPTH 10.00 TO 16.00 FT

256

SAMPLE TYPE:

- [X] GRAB
- [ ] TIME COMPOSITE
- [ ] QC RINSATE
- [ ] OTHER (SPECIFY) _____
- [ ] SPATIAL COMPOSITE
- [ ] QC TRIP BLANK
- [ ] QC FIELD BLANK

FIELD OBSERVATIONS: NONE

SAMPLE COLLECTED: [X] YES [ ] NO

SAP SAMPLING PROCEDURE WAS FOLLOWED: [X] YES [ ] NO FIELD CHANGE ORDER REFERENCE NO: NA

IF SAP WAS NOT FOLLOWED, SPECIFY WHAT DEVIATIONS WERE NECESSARY AND WHY (INCLUDE FIELD CHANGE ORDER REFERENCE NO.):

NA

RECORDED BY: [signature] (SIGNATURE) QA CHECKED BY: [signature] 7/28/94 (SIGNATURE)

RECORDED BY: [signature] (SIGNATURE) QA CHECKED BY: [signature] 7/28/94 (SIGNATURE)

SAMPLE ID NUMBER: 606003 p. 257

CONTAINER VOLUME (ml)	CONTAINER TYPE	METHOD NAME AND NUMBER ANALYSIS	PRESERVATIVES (TYPE/VOL)	C-O-C #	AIR BILL #	CONTAINER LOT #	LABORATORY
1-120	WM Glass	CLPVOA	Cool,4C	ONC018	8219959742	SEE CONTAINER LOT # LOG	COMPUC
1-250	AmbGlass	SVOC,PEST/PCB	Cool,4C				COMPUC
1-250	AmbGlass	EXPLOSIVES	Cool,4C				COMPUC
1-250	WM Glass	ANIONS Fl,SO4,Cl,NO2/NO3	Cool,4C				COMPUC
1-250	WM Glass	METALS,Cyanide	Cool,4C				COMPUC
1-120	Poly	LANTHANIDES	Cool,4C				COMPUC
1-120	AmbGlass	TOTAL ORGANIC CARBON	Cool,4C				COMPUC
2-250	WM GLASS	RADS Ac,Sr,H3,GAMMA	NONE				COMPUC
2-250	WM GLASS	RADS Pu,Th,U	NONE				COMPUC
			LAST ENTRY				

257

SAMPLE ID'S RINSATE: ER0008 TRIP BLANK: TBA018 FIELD BLANK: AB0005 FIELD DUPLICATE: NA

RECORDED BY: [signature] (SIGNATURE) QA CHECKED BY: [signature] 7/28/94 (SIGNATURE)

EG&G MOUND

OU5 OPS AREA

PHASE I

A7 SOIL BORING

LOGBOOK

B7 - B9

SOIL BORING LOG BOOK

B07 B08 B09

PROJECT TITLE: EG&G MOUND OU5 OPERATIONAL AREA PHASE 1 RI/FS FIELD INVESTIGATIONS

WORK SITE: *MOUND PLANT*
Miamisburg, Ohio
OU5 Operational Area

ACTIVITY: *Mound OU5 Operational Area Phase 1 RI/FS Field Investigations*

CONTRACT #: *BOA 52264*
TASK ORDER: *34896*

PROJECT MANAGER: *Thomas Tank*
COMPANY NAME / ADDRESS: *Science Applications International Corporation*
4031 Colonel Glenn Hwy ,Dayton, Ohio 45431
TELEPHONE NUMBERS: *(513) 429-2699*

SUPERVISORS: *OU5 Manager: Alan Spesard (513)865-3859*
SAIC Proj. Manager: Thomas Tank (513)429-2699

EMERGENCY RESPONCE: *Police / Ambulance / Fire 911 or 865-4040*

PROCEDURES: *SOP 1.1, SOP 2.2, SOP 3.1, SOP 5.1, SOP 6.1, SOP 6.3*

START DATE: 6/28/94
END DATE: 7/19/94

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B07 B08 B09

SOIL BORING I

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1

PROJECT NO: 34896

PAGE	FIELD LOG	PAGE	FIELD LOG
1	TASK TEAM ACTIV. SHEET; B07; 6/28/94	31	BOREHOLE ABANDON. LOG; B07
2	" ; " ; 6/29/94	32	NO ENTRY
3	" ; " ; "	33	KEY SHEET
4	NO ENTRY	34	NO ENTRY
5		35	"
6		36	SAMPLE LOG SHEET; B07001
7		37	" ; "
8		38	" ; B07002
9		39	" ; "
10		40	" ; B07003
11	BOREHOLE LOG; B07	41	" ; "
12	" ; "	42	" ; B07004
13	NO ENTRY	43	" ; "
14		44	NO ENTRY
15		45	
16		46	
17		47	
18		48	
19		49	
20		50	
21		51	
22		52	
23		53	
24		54	
25		55	
26		56	
27	CGI MONITOR DATA; B07	57	
28	NO ENTRY	58	
29	FID FIELD DATA; B07	59	
30	NO ENTRY	60	

TABLE OF CONTENTS B07 B08 B09 SOIL BORING II

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 PROJECT NO: 34896

PAGE	FIELD LOG	PAGE	FIELD LOG
61	NO ENTRY	91	SAMPLE LOG SHEET ~~NO ENTRY~~ B07101 11/28/94
62		92	NO ENTRY
63		93	
64		94	
65		95	
66		96	
67		97	
68		98	
69		99	
70		100	
71		101	
72		102	
73		103	
74		104	
75		105	
76		106	
77		107	
78		108	
79		109	TASK TEAM LOG; B08; 7/14/94
80		110	" ; " ; "
81		111	" ; " ; "
82		112	NO ENTRY
83		113	
84		114	
85		115	
86		116	
87		117	
88		118	
89		119	BOREHOLE LOG; B08
90	SAMPLE LOG SHEET B07101	120	" ; "

TABLE OF CONTENTS

B07 B08 B09

SOIL BORING III

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1

PROJECT NO: 34896

PAGE	FIELD LOG	PAGE	FIELD LOG
121	BOREHOLE LOG; B08	151	NO ENTRY
122	NO ENTRY	152	
123		153	
124		154	
125		155	
126		156	
127		157	
128		158	
129		159	
130		160	
131		161	
132		162	
133		163	
134		164	
135	CGI MONITOR DATA; B08	165	
136	" ; "	166	
137	FID MONITOR FIELD DATA; B08	167	
138	NO ENTRY	168	
139	BOREHOLE ABANDON; B08	169	
140	NO ENTRY	170	
141	KEY SHEET	171	
142	NO ENTRY	172	
143	"	173	
144	SAMPLE LOG SHEET; B08001	174	
145	" ; "	175	
146	" ; B08002	176	
147	" ; "	177	
148	" ; B08003	178	
149	" ; "	179	
150	NO ENTRY	180	

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B07 B08 B09

SOIL BORING
IV

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1

PROJECT NO: 34896

PAGE	FIELD LOG	PAGE	FIELD LOG
181	NO ENTRY	211	NO ENTRY
182		212	
183		213	
184		214	
185		215	
186		216	
187		217	TASK TEAM COL SHEET; B09; 7/19/94
188		218	" ; " ; "
189		219	" ; " ; "
190		220	NO ENTRY
191		221	
192		222	
193		223	
194		224	
195		225	
196		226	
197		227	BOREHOLE COL; B09
198		228	" ; "
199		229	" ; "
200		230	NO ENTRY
201		231	
202		232	
203		233	
204		234	
205		235	
206		236	
207		237	
208		238	
209		239	
210		240	

TABLE OF CONTENTS B07 B08 B09 SOIL BORING

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 V PROJECT NO: 34896

PAGE	FIELD LOG	PAGE	FIELD LOG
241	NO ENTRY	271	NO ENTRY
242	NO ENTRY	272	
243	CGI MONITOR DATA; B09	273	
244	" ; "	274	
245	FID FIELD DATA; B09	275	
246	" ; "	276	
247	BOREHOLE ABAND LOG; B09	277	
248	NO ENTRY	278	
249	KEY SHEET	279	
250	NO ENTRY	280	
251	NO ENTRY	281	
252	SAMPLE LOG SHEET; B09001	282	
253	" ; "	283	
254	" ; B09002	284	
255	" ; "	285	
256	" ; B09003	286	
257	" ; "	287	
258	" ; B09004	288	
259	" ; "	289	
260	" ; B09005	290	
261	" ; "	291	
262	NO ENTRY	292	
263		293	
264		294	
265		295	
266		296	SAMPLE LOG SHEET; B09102
267		297	" ; "
268		298	NO ENTRY
269		299	
270		300	

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B07 B08 B09

SOIL BORING
VI

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1

PROJECT NO: 34896

PAGE	FIELD LOG	PAGE	FIELD LOG
301	NO ENTRY	331	
302		332	
303		333	
304		334	
305		335	
306		336	
307		337	
308		338	
309		339	
310		340	
311		341	
312		342	
313		343	
314		344	
315		345	
316		346	
317		347	NA
318		348	
319		349	
320		350	
321		351	
322		352	
323		353	
324		354	
325		355	
326		356	
327	END OF BOOK	357	
328		358	
329	NA	359	
330		360	

TASK TEAM ACTIVITY LOG SHEET

SOIL BORING B07 P1

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1

TASK NO.: 34896

Date (mm/dd/yy): 6/28/94 TIME: 1400 - : 1559 PAGE 1 OF 1

Task Team Members:

GREG LODER	SAIC	DEUNKS SINK	BM
JEFF DEVAUGHN	SAIC	DWIGHT NICKS	BM
		JIM HAGAR	BM

Narrative (include time and location):

1400 ARRIVE ON SITE. DRILLERS STILL NOT BACK FROM LUNCH THEY ARE ABOUT 1 HOUR LATE

1410 BILL STOTT ON SITE, SCANED BORING LOCATION AND GETS AN INDICATION THAT THERE IS SOME KIND OF UTILITY LINE RIGHT UNDER OUR MARK SO WE MOVED IT 8' EAST FROM PREVIOUS SPOT

1430 DRILLERS ARRIVE AND SET UP. GARY (HP) ON SITE

1445 TAKE B07001 ~~AND B07101~~ CL 6/28/94 ALSO COLLECT AMBIENT AB0003 OVA=0 PPM LEL=0

1452 PULL SECOND SPOON FOR SURFACE SAMPLE HAD TO EXTEND INTERVAL TO 0'-3'. OVA=0 LEL=0

1459 PULL SPOON FROM 3-5 OVA=0 PPM LEL=0

530 TAKE B07002 OVA=0 PPM LEL=0

1535 NOT ENOUGH FOR SAMPLE IN LAST SPOON, SINCE WE ARE IN CLAY WE WILL EXTEND THE INTERVAL TO 5'-9'

542 PULL SPOON FROM 7'-9' OVA=0 PPM LEL=0

555 TAKE B07003 OVA=0 PPM LEL=0

1559 GARY INDICATES HE NEEDS TO LEAVE SO WE PACK IT IN FOR THE DAY

Daily Weather Conditions: A.M.

P.M. 85°F SUNNY

Recorded By [signature] QA Checked By [signature] 7/22/94

TASK TEAM ACTIVITY LOG SHEET

B07 P2

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 — TASK NO.: 34896

Date (mm/dd/yy): 8/29/94 TIME: 0800 PAGE 1 OF 2

Task Team Members:

GREG LODER	SAIC	DENNIS SINK	BM
JEFF DEVAUGHN	SAIC	DWIGHT WORK	BM
		JIM HAGAR	BM

Narrative (include time and location):

0800 ON SITE, DRILLERS AND GARY ALSO ON SITE
0828 PULL SPOON FROM ~~4~~ 11-13' OVA = Ø PPM LEL = Ø
0833 NOT ENOUGH RECOVERY NEED TO EXTEND SAMPLE INTERVAL TO 10'-15' FOR B07ØØ3
0840 PULL SPOON FROM 13-15' OVA ≈ 3Ø PPM WITH SPIKES TO 6Ø PPM BUT Ø PPM IN BREATHING ZONE LEL = Ø READING WITH METHANE TIP FOR OVA = 3Ø PPM
0852 OVA BH = 3Ø PPM BZ = Ø PPM LEL = Ø
0910 OVA BH = 3Ø PPM BZ = Ø PPM LEL = Ø
0920 STEVE DAVIS WAS CONSULTED BY JOHN DAVIS. HE SAYS OK TO CONTINUE WITH CAREFUL MONITORING OF BREATHING ZONE
0945 PULL SPOON FROM 15-17 FOR B07ØØ4 OVA = 10K OVER BACKGROUND CH1 = Ø CH2 = 5K OVER BKGRD OVA = 2ØØ PPM BH LEL = 15% BH O_2 = 18% OVA < Ø PPM BZ LEL = Ø BZ ROY MOEN TOOK SAMPLE FOR IMMEDIATE ANALYSIS
1008 ALEX BRAY AND DENNY CAULT ON SITE

Daily Weather Conditions: A.M. SUNNY BREEZY 75°F

P.M. NA

Recorded By [signature] QA Checked By [signature] 7/22/95

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1

B07 P3
TASK NO.: 34896

Date (mm/dd/yy): 6/29/94 TIME: NA PAGE 2 OF 32

Task Team Members:

SEE PAGE 2

Narrative (include time and location):

1011 JOHN DAVIS ON SITE
1020 DECISION IS TO STOP DRILLING AND GROUT BOREHOLE
1031 ROY COMES BACK WITH RAD RESULTS ON B07004 OF 18 PCi/g ACTION LEVEL IS 25 PCi/g
1049 LEAVE SITE TWA = 0.20 FOR AIR MONITORING

LAST ENTRY

Daily Weather Conditions: A.M. SUNNY BREEZY 80°F

P.M. NA

Recorded By [signature] QA Checked By 7/22/94

BOREHOLE LOG (SOIL)

SOIL BORING P. 11

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 7/22/94 PROJECT NO: 34896

JMD 7/22/94 JMD 7/22/94

Page 1 of 2

FACILITY CODE: ~~MND21~~ MND21

LOCATION ID: 307

COORDINATES (FT):

NORTH NA EAST NA

GROUND ELEVATION (FT MSL)

LOCATION TYPE: NA

COMMENTS: NA

DRILLER CODE: ~~BONS~~ BOWS

COMPLETION DATE 6/29/1994

DIAMETER (IN): 8

DEPTH (FTFD): 17.0'

CONSTRUCTION METHOD: B

ACCEPTANCE CODE: NA

GROUNDWATER LEVELS

DATE	TIME	DEPTH (FT)
NOT ENCOUNTERED		

LOCATION DESCRIPTION

50' EAST OF FIRE STATION IN PARKING LOT

LITHOLOGIC LOG

LOGGER CODE: ~~BAC~~

DEPTH (FT)	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE RETAINED	SAMPLE METHOD	SAMPLE ID	BLOW COUNT (PER 6 IN)	N VALUE	USCS	VISUAL DESCRIPTIONS
0-0.9	NA	NA	NA	NA	NA	NA	NA	NA	ASPHALT
	0-3	2.0	2.0	U	B0001	19/24/29/29	58	CL	CLAY, SOME SILT, TRACE
	~~SECOND SPOON~~	1.8	1.8	U	"	NR	NR		COASE SAND AND GRAVEL.
									SOFT, DAMP, PLASTIC
									10 YR 4/1 VERY DARK GREY
	3-5	1.4	0	U	NA	22/19/31/39	70	CL	SAME AS ABOVE

ACCEPTANCE CODES: A - ACCEPTABLE, R - RECONNAISSANCE, U - UNACCEPTABLE, N - NOT DETERMINED

CONSTRUCTION METHODS:

A - AIR ROTARY
B - BORED OR AUGERED
C - CABLE - TOOL
D - DUG
H - HYDRAULIC - ROTORY
J - JETTED
P - AIR - PERCUSSION
R - REVERSE ROTERY
T - TRENCHING
V - DRIVEN
W - DRIVE AND WASH
Z - OTHER (SPECIFY)

SAMPLE METHODS:

A - AUGER CUTTINGS
S - 2" O.D. 1.38" I.D. DRIVE SAMPLES
U - 3" O.D. 2.42" I.D. TUBE SAMPLES
T - 3" O.D. THIN-WALLED SHELBY TUBE
O - OTHER (SPECIFY)

COMPLETE BOLDED DATA FOR ENTRY INTO TIMS

6/28/94 FORM COMPLETED BY / DATE

7/22/94 TECHNICAL REVIEWER / DATE

BOREHOLE LOG (SOIL)

SOIL BOR

P. 12

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1

PROJECT NO: 34

JAD 7/22/94

FACILITY CODE: MND21

LOCATION ID: B07

DRILLER CODE: ~~BOWS~~ BOWIS

COMPLETION DATE 6 / 29/1994

LITHOLOGIC LOG

DEPTH (FT)	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE RETAINED	SAMPLE METHOD	SAMPLE ID	BLOW COUNT (PER 6 IN)	N VALUE	USCS	VISUAL DESCRIPTIONS
6	5-7	2.0	2.0	U	B07002	21/33/44/49	93	CL	5'-6' SAME AS PREVIOUS
								CL	6'-7' CLAY, TRACE COARSE
									SAND TRACE GRAVEL
									SOFT MOIST VERY PLASTIC
									10 YR 5/4 YELLOWISH BROWN
	7-9	1.3	Ø	U	NA	29/41/32/45	77	CL	SAME AS ABOVE
10.5	9-11	1.8	1.8	U	B07003	31/44/51/36	87	CL	9-10.5 SAME AS ABOVE
								CL	10.5-11 CLAY TRACE COARSE
									SAND TRACE GRAVEL
									SOFT MOIST PLASTIC
									5 GY 4/1 DARK ~~GREENISH~~ GRAY
	11-13	1.0	1.0	U	B07003	29/19/21/42	63	CL	SAME AS ABOVE
	13-15	1.7	1.7	U	NA	30/41/52/69	121	CL	SAME AS ABOVE
	15-17	1.8	1.8	U	~~B07003~~ B07004	39/49/51/44	95	CL	SAME AS ABOVE
				LAST ENTRY					

COMPLETE BOLDED DATA FOR ENTRY INTO TIMS

6/29/94 — FORM COMPLETED BY / DATE

7/22/94 — TECHNICAL REVIEWER

COMBUSTIBLE GAS INDICATOR (CGI) MONITORING DATA

SOIL BORING B07 P27

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1

PROJECT NO: 34896

FACILITY CODE: MND21

LOG DATE: 6/28/94, 6/29/94

LOGGER CODE: SAIC

FIELD REP: GLODER

CGI MANUFACTURER: ~~INDUSTRIAL~~ MSA

CGI MODEL NO.: 261

SERIAL NO.: 89~~0000~~22069

CALIBRATION DATE/TIME: 6/28/94 0700

ACCEPTANCE CODE: A

BATTERY CONDITION GOOD

CALIBRATION GAS (%LEL) TYPE PENTANE CONCENTRATION 50 % LEL CYLINDER SERIAL NO 39525

CALIBRATION GAS (PPM) TYPE NA CONCENTRATION NA PPM CYLINDER SERIAL NO NA

COMMENTS: NONE

LOCATION ID OR DESCRIPTION	COORDINATES FT NORTH	COORDINATES FT EAST	MONITORING TIME (HH:MM)	LOCATION TYPE	% LOWER EXPLOSIVE LIMIT	PPM	% OXYGEN
B07	NA	NA	1445	BH	0	NA	21
6/28			1452		0		21
			1459		0		21
			1530		0		21
			1542		0		21
			1555		0		21
6/29			0828		0		21
			0840		0		21
			0852		0		21
			0910		0		21
			0945		15		18
			Last Entry				

ACCEPTANCE CODES: A - ACCEPTABLE, R - RECONNAISSANCE, U - UNACCEPTABLE, N - NOT DETERMINED

LOCATION TYPES: BH - BOREHOLE SL - SURFACE LOCATION TP - TEST PIT WL - WELL

COMPLETE BOLDED DATA FOR ENTRY INTO TIMS

6/28/94 FORM COMPLETED BY / DATE

7/22/94 TECHNICAL REVIEWER / DATE

FLAME IONIZATION DETECTOR FIELD DATA

SOIL BORING B07 P29

PROJECT NAME: EG&G MOUND OU5 OPERAIONAL AREA, PHASE 1 PROJECT NO: 34896

FACILITY CODE: MND21 LOG DATE: 6/28/94 6/29/94

LOCATION ID B07 LOCATION TYPE: BH ~~BS~~

LOGGER CODE: SAIC FIELD REP: G.LODER JAD 7/22/94

FLAME IONIZATION DETECTOR INSTRUMENT:

MANUFACTURER: FOXBORO MODEL NO.: 128

SERIAL NO.: 50289

DATE/TIME CALIBRATION 6/28/94 0700 ACCEPTANCE CODE: A

CALIBRATION GASES	
TYPE/CYLINDER ID NO.	CONCENTRATION (PPM)
1 METHANE / 32875	1 100
2 NA	2 NA

COMMENTS NONE

TIME (HH:MM)	SAMPLE ID	OBSERVED READING (ppm)					DRILLING DEPTH (ft)	COMMENTS
		DH	HS	BZ	D	OT		
1445	307001	0	NA	NR	NA	NA	2	6/28/94
1452	"	0					3	
1459	NA	0					5	
1530	307002	0					7	
1542	"	0					9	
1555	307003	0					11	
0828	"	0					13	6/29/94
0840	"	30		0			15	
0852	NA	30		0			15	
0916	NA	30		0			15	
0945	307004	200		0			17	
				Last	Entry			

ACCEPTANCE CODES: A - ACCEPTABLE, R - RECONNAISSANCE, U - UNACCEPTABLE, N - NOT DETERMINED

LOCATION TYPES:
BH - BOREHOLES
P - TEST PIT
SS - SOIL SAMPLE
SB - SAMPLE BOTTLE
L - SURFACE LOCATION
WL - WELL
OT - OTHER (EXPLAIN)

OBSERVED READING:
DH - DOWNHOLE
HS - HEADSPACE
BZ - BREATHING ZONE
D - DURING DRILLING (BZ)
OT - OTHER

COMPLETE BOLDED DATA FOR ENTRY INTO TIMS

6/28/94 FORM COMPLETED BY / DATE

7/22/94 TECHNICAL REVIEWER / DATE

BOREHOLE OR WELL PLUGGING / ABANDONMENT

SOIL BORING B07 P31

PROJECT: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1

PROJECT NO.: 34896

SITE ID NUMBER: 307 DATE PLUGGED 6 / 29 / 94

SITE COORDINATES: N: NA E: NA DEPTH BLS (ft) 17

TYPE OF CASING: NA

CASING DIAMETER (ID) (in.) NA GROUND ELEVATION (ft msl) NA

SCREENED ELEVATION (ft msl) NA

GEOLOGIC MATERIAL AT SCREEN NA

AMOUNT OF CASING REMOVED (ft) NA

PLUGGING MATERIAL BENTONITE GROUT

APPROX. VOLUME OF PLUGGING MATERIAL (cu ft.) 6

PLUGGING METHOD TREMIED THROUGH AUGERS

REMARKS 3 - 50 lb BAGS CEMENT AND ½ - 50 lb BAG BENTONITE IN A 55 GALLON DRUM OF WATER IS ONE BATCH GROUT WHICH IS ABOUT 7.4 ft³

LAST ENTRY

RECORDED BY: (Signature) QA CHECKED BY: 7/22/94 (Signature)

SOLID MATRICES

SOIL
- [01] Surface (0-6 inches)
- [02] Subsurface (>6 inches)
- [09] Other

SEDIMENT / SLUDGES
- [11] Lake/Pond
- [12] River/Stream
- [13] Impoundment/Pond
- [14] Drum/Tank
- [19] Other

AIR SAMPLE
- [21] Filter
- [22] Sorbent
- [23] Sweepings/Fugitive Dust
- [24] Gases
- [29] Other

BIOLOGICAL/TERRESTRIAL
- [31] Biota
- [39] Other

GEO-TECHNICAL
- [41] Retained on #40
- [42] Retained on #200
- [43] Passed through #200
- [49] Other

LIQUID MATRICES

SURFACE WATER
- [51] Lake/Pond
- [52] River/Stream
- [53] Impoundment/Pond
- [54] Discharge
- [55] Spring/Seep
- [59] Other

GROUND WATER
- [61] Abandoned Well
- [62] Extraction Well
- [63] Injection Well
- [64] Irrigation Well
- [65] Lysimeter
- [66] Monitoring Well
- [67] Observation Well
- [68] Piezometer
- [69] Other
- [6A] Public Water Supply
- [6B] Purge Well
- [6C] Test Well
- [6D] Vapor Well
- [6E] Leachate Well

CONTAINERIZED

SEALED	UNSEALED
[71] Drum/Tank	[81] Drum/Tank
[79] Other	[89] Other

SAMPLE LOG SHEET

PROJECT NAME: Mound Operational Area **PROJECT NO:** 2680 P. 3/6

SAMPLE ID NUMBER: B07001 DATE COLLECTED (MM/DD/YY): 6/28/94 TIME (HH:MM): 1445

SAMPLING -

LOCATION CODE: MNDOA

DESCRIPTION: MOUND OPERATIONAL AREA

POINT CODE: B07

DESCRIPTION: OPERAIONAL AREA BORING #7

SAMPLE -

MEDIA CODE: 01

DESCRIPTION: Soil Surface (0 - 6 Inches)

DEPTH 0.00 TO ~~5.00~~ 2.00 (ac 6/28/94) FT

SAMPLE TYPE:

- [X] GRAB
- [ ] TIME COMPOSITE
- [ ] QC RINSATE
- [ ] OTHER (SPECIFY) _____
- [ ] SPATIAL COMPOSITE
- [ ] QC TRIP BLANK
- [ ] QC FIELD BLANK

FIELD OBSERVATIONS: NONE

SAMPLE COLLECTED: [X] YES [ ] NO

SAP SAMPLING PROCEDURE WAS FOLLOWED: [X] YES [ ] NO FIELD CHANGE ORDER REFERENCE NO: NA

IF SAP WAS NOT FOLLOWED, SPECIFY WHAT DEVIATIONS WERE NECESSARY AND WHY (INCLUDE FIELD CHANGE ORDER REFERENCE NO.):

NA

RECORDED BY: [signature] (SIGNATURE) QA CHECKED BY: [signature] 7/22/94

RECORDED BY: [illegible] (SIGNATURE) QA CHECKED BY: [illegible] (SIGNATURE)

SAMPLE LOG SHEET

SAMPLE ID NUMBER: B07001 P.37

CONTAINER VOLUME (ml)	CONTAINER TYPE	METHOD NAME AND NUMBER ANALYSIS	PRESERVATIVES (TYPE/VOL)	C-O-C #	AIR BILL #	CONTAINER LOT #	LABORATORY
1-120	WM Glass	CLPVOA	Cool,4C	SB 8/7 ~~OAC006~~ OAC006	8219960486	SEE CONTAINER LOT # LOG	COMPUC
1-250	AmbGlass	SVOC,PEST/PCB	Cool,4C				COMPUC
1-250	AmbGlass	EXPLOSIVES	Cool,4C				COMPUC
2-250	WM Glass	ANIONS Fl,SO4,Cl,N02/N03	Cool,4C				COMPUC
1-250	WM Glass	METALS,Cyanide	Cool,4C				COMPUC
1-120	Poly	LANTHANIDES	Cool,4C				COMPUC
1-120	AmbGlass	TOTAL ORGANIC CARBON	Cool,4C				COMPUC
2-250	WM GLASS	RADS Ac,Sr,H3,GAMMA	NONE				COMPUC
2-250	WM GLASS	RADS Pu,Th,U	NONE				COMPUC
			LAST ENTRY				

SAMPLE ID'S RINSATE: ~~ER0003~~ ER0001 SB 8-18 TRIP BLANK: TB0006 FIELD BLANK: AB0003 FIELD DUPLICATE: B07101

RECORDED BY: [signature] (SIGNATURE) QA CHECKED BY: [signature] 7/22/94 (SIGNATURE)

SAMPLE LOG SHEET

PROJECT NAME: Mound Operational Area **PROJECT NO:** 2680 P.38

SAMPLE ID NUMBER: B07002 DATE COLLECTED (MM/DD/YY): 6/28/94 TIME (HH:MM): ~~1511~~ 1530 SBB-9

SAMPLING -

LOCATION CODE: MNDOA

DESCRIPTION: MOUND OPERATIONAL AREA

POINT CODE: B07

DESCRIPTION: OPERAIONAL AREA BORING #7

SAMPLE -

MEDIA CODE: 02

DESCRIPTION: Soil Subsurface (>6 Inches)

DEPTH 5.00 TO 9.00 FT

SAMPLE TYPE:

- [x] GRAB
- [ ] TIME COMPOSITE
- [ ] QC RINSATE
- [ ] OTHER (SPECIFY)
- [ ] SPATIAL COMPOSITE
- [ ] QC TRIP BLANK
- [ ] QC FIELD BLANK

FIELD OBSERVATIONS: NONE

SAMPLE COLLECTED: [x] YES [ ] NO

SAP SAMPLING PROCEDURE WAS FOLLOWED: [x] YES [ ] NO FIELD CHANGE ORDER REFERENCE NO: NA

IF SAP WAS NOT FOLLOWED, SPECIFY WHAT DEVIATIONS WERE NECESSARY AND WHY (INCLUDE FIELD CHANGE ORDER REFERENCE NO.):

NA

RECORDED [signature] (SIGNATURE) CHECKED BY: [signature] 7/22/94

RECORDED BY: [signature] (SIGNATURE) CHECKED BY: [signature] 7/22/94 (SIGNATURE)

SAMPLE LOG SHEET

SAMPLE ID NUMBER: B07002 P.39

CONTAINER VOLUME (ml)	CONTAINER TYPE	METHOD NAME AND NUMBER ANALYSIS	PRESERVATIVES (TYPE/VOL)	C-O-C #	AIR BILL #	CONTAINER LOT #	LABORATORY
1-120	WM Glass	CLPVOA	Cool,4C	SB 8-9 ~~OAC007~~ OAC006	8219960486 ~~8219950834~~ SB 8-18	SEE CONTAINER LOT LIST	COMPUC
1-250	AmbGlass	SVOC,PEST/PCB	Cool,4C				COMPUC
1-250	AmbGlass	EXPLOSIVES	Cool,4C				COMPUC
1-250	WM Glass	ANIONS Fl,SO4,Cl,N02/N03	Cool,4C				COMPUC
1-250	WM Glass	METALS,Cyanide	Cool,4C				COMPUC
1-120	Poly	LANTHANIDES	Cool,4C				COMPUC
1-120	AmbGlass	TOTAL ORGANIC CARBON	Cool,4C				COMPUC
2-250	WM GLASS	RADS Ac,Sr,H3,GAMMA	NONE				COMPUC
2-250	WM GLASS	RADS Pu,Th,U	NONE				COMPUC
			LAST ENTRY				

SAMPLE ID'S RINSATE: ER0003 TRIP BLANK: ~~TBA007~~ TBA006 SB 8-12 FIELD BLANK: DB0003 FIELD DUPLICATE: NA

RECORDED BY: [signature] (SIGNATURE) QA CHECKED BY: [signature] 7/22/94 (SIGNATURE)

SAMPLE LOG SHEET

PROJECT NAME: Mound Operational Area **PROJECT NO:** 2680 P.40

SAMPLE ID NUMBER: B07003 DATE COLLECTED (MM/DD/YY): 6/28/93 6/29/93 TIME (HH:MM): 1530 0828

SAMPLING -

LOCATION CODE: MNDOA

DESCRIPTION: MOUND OPERATIONAL AREA

POINT CODE: B07

DESCRIPTION: OPERAIONAL AREA BORING #7

SAMPLE -

MEDIA CODE: 02

DESCRIPTION: Soil Subsurface (>6 Inches)

DEPTH 10.00 TO 15.00 FT

SAMPLE TYPE:

- [X] GRAB
- [ ] TIME COMPOSITE
- [ ] QC RINSATE
- [ ] OTHER (SPECIFY)
- [ ] SPATIAL COMPOSITE
- [ ] QC TRIP BLANK
- [ ] QC FIELD BLANK

SAMPLE COLLECTED: [X] YES [X] NO GC 6/29/93

FIELD OBSERVATIONS:

multiple spoons required to obtain sufficient sample material — sample collected on two different days

JHD 7/22/94

SAP SAMPLING PROCEDURE WAS FOLLOWED: [X] YES [ ] NO FIELD CHANGE ORDER REFERENCE NO: N/A

IF SAP WAS NOT FOLLOWED, SPECIFY WHAT DEVIATIONS WERE NECESSARY AND WHY (INCLUDE FIELD CHANGE ORDER REFERENCE NO.):

NA

RECORDED BY: [signature] (SIGNATURE) QA CHECKED BY: [signature] 7/22/94 (SIGNATURE)

RECORDED BY: [illegible] (SIGNATURE) QA CHECKED BY: [illegible] (SIGNATURE)

SAMPLE ID NUMBER: B07003 P.41

CONTAINER VOLUME (ml)	CONTAINER TYPE	METHOD NAME AND NUMBER ANALYSIS	PRESERVATIVES (TYPE/VOL)	C-O-C #	AIR BILL #	CONTAINER LOT #	LABORATORY
1-120	WM Glass	CLPVOA	Cool,4C	OAC 007	8219959834	SEE CONTAINER LOT # LOG	COMPUC
1-250	AmbGlass	SVOC,PEST/PCB	Cool,4C				COMPUC
1-250	AmbGlass	EXPLOSIVES	Cool,4C				COMPUC
2-250	WM Glass	ANIONS Fl,SO4,Cl,N02/N03	Cool,4C				COMPUC
1-250	WM Glass	METALS,Cyanide	Cool,4C				COMPUC
1-120	Poly	LANTHANIDES	Cool,4C				COMPUC
1-120	AmbGlass	TOTAL ORGANIC CARBON	Cool,4C				COMPUC
2-250	WM GLASS	RADS Ac,Sr,H3,GAMMA	NONE				COMPUC
2-250	WM GLASS	RADS Pu,Th,U	NONE				COMPUC
			LAST ENTRY				

SAMPLE ID'S RINSATE: ER0003 TRIP BLANK: TB007 FIELD BLANK: AB0003 FIELD DUPLICATE: NA

RECORDED BY: [signature] (SIGNATURE) QA CHECKED BY: [signature] 7/22/94 (SIGNATURE)

SAMPLE LOG SHEET

PROJECT NAME: Mound Operational Area **PROJECT NO:** 2680 P.42

SAMPLE ID NUMBER: B07004 DATE COLLECTED (MM/DD/YY): 6/29/94 TIME (HH:MM): 0945

SAMPLING -

LOCATION CODE: MNDOA

DESCRIPTION: MOUND OPERATIONAL AREA

POINT CODE: B07

DESCRIPTION: OPERAIONAL AREA BORING #7

SAMPLE -

MEDIA CODE: 02

DESCRIPTION: Soil Subsurface (>6 Inches)

DEPTH 15.00 TO 17.00 FT

SAMPLE TYPE:

- [X] GRAB
- [ ] TIME COMPOSITE
- [ ] QC RINSATE
- [ ] OTHER (SPECIFY)
- [ ] SPATIAL COMPOSITE
- [ ] QC TRIP BLANK
- [ ] QC FIELD BLANK

FIELD OBSERVATIONS: NONE

SAMPLE COLLECTED: [X] YES [ ] NO

SAP SAMPLING PROCEDURE WAS FOLLOWED: [✓] YES [ ] NO FIELD CHANGE ORDER REFERENCE NO: NA

IF SAP WAS NOT FOLLOWED, SPECIFY WHAT DEVIATIONS WERE NECESSARY AND WHY (INCLUDE FIELD CHANGE ORDER REFERENCE NO.):

NA

RECORDED BY: (SIGNATURE) QA CHECKED BY: 7/22/94

RECORDED BY: [illegible] (SIGNATURE) QA CHECKED BY: [illegible] (SIGNATURE)

SAMPLE LOG SHEET

SAMPLE ID NUMBER: B07004

P.43

CONTAINER VOLUME (ml)	CONTAINER TYPE	METHOD NAME AND NUMBER ANALYSIS	PRESERVATIVES (TYPE/VOL)	C-O-C #	AIR BILL #	CONTAINER LOT #	LABORATORY
1-120	WM Glass	CLPVOA	Cool,4C	OAC007	8219959834	SEE CONTAINER LOT # LOG	COMPUC
1-250	AmbGlass	SVOC,PEST/PCB	Cool,4C				COMPUC
1-250	AmbGlass	EXPLOSIVES	Cool,4C				COMPUC
2-250	WM Glass	ANIONS Fl,SO4,Cl,NO2/NO3	Cool,4C				COMPUC
1-250	WM Glass	METALS,Cyanide	Cool,4C				COMPUC
1-120	Poly	LANTHANIDES	Cool,4C				COMPUC
1-120	AmbGlass	TOTAL ORGANIC CARBON	Cool,4C				COMPUC
2-250	WM GLASS	RADS Ac,Sr,H3,GAMMA	NONE				COMPUC
2-250	WM GLASS	RADS Pu,Th,U	NONE				COMPUC
			LAST ENTRY				

AC 6/30/94

L12

SAMPLE ID'S RINSATE: ER0003 TRIP BLANK: TB007 FIELD BLANK: AB0003 FIELD DUPLICATE: NA

RECORDED BY: [illegible] (SIGNATURE) QA CHECKED BY: [illegible] 7/22/94 (SIGNATURE)

SAMPLE LOG SHEET

PROJECT NAME: PROJECT NO:

SAMPLE ID NUMBER: B07101 DATE COLLECTED (MM/DD/YY): 6/28/94 TIME (HH:MM): 4/4/5

SAMPLING -

LOCATION CODE: MNDOP

DESCRIPTION: Mound Operational Area

POINT CODE: B07

DESCRIPTION: Operational Area Boring 47

SAMPLE -

MEDIA CODE: 01

DESCRIPTION: Soil Surface (0-6 inches)

DEPTH 0.0 TO 3.0 Ft

SAMPLE TYPE:

- [x] GRAB
- [ ] TIME COMPOSITE
- [ ] QC RINSATE
- [ ] OTHER (SPECIFY)
- [ ] SPATIAL COMPOSITE
- [ ] QC TRIP BLANK
- [ ] QC FIELD BLANK

FIELD OBSERVATIONS: Duplicate of B07001

NO ENTRY 7-22-94 JMD 8-10

SAMPLE COLLECTED: [X] YES [ ] NO

SAP SAMPLING PROCEDURE WAS FOLLOWED: [X] YES [ ] NO FIELD CHANGE ORDER REFERENCE NO: NA

IF SAP WAS NOT FOLLOWED, SPECIFY WHAT DEVIATIONS WERE NECESSARY AND WHY (INCLUDE FIELD CHANGE ORDER REFERENCE NO.):

NA

RECORDED BY: Judy Brown (SIGNATURE) QA CHECKED BY: 8/10/94 (SIGNATURE)

(SIGNATURE) (SIGNATURE)

SAMPLE ID NUMBER:

CONTAINER VOLUME (ml)	CONTAINER TYPE	METHOD NAME AND NUMBER ANALYSIS	PRESERVATIVES (TYPE/VOL)	C-O-C #	AIR BILL #	CONTAINER LOT #	LABORATORY
1-120	WM Glass	CLPVOA	Cool, 4C	OAC006	8219960486	SEE Container Lot # LOG	Compuchem
1-250	Amb Glass	SVOC, PEST/PCB	Cool, 4C				
1-250	Amb Glass	Explosives	Cool, 4C				
2-250	WM Glass	Anions Fl, SO_4 Cl, NO_2/NO_3	Cool, 4C				
1-250	WM Glass	Metals, Cyanide	Cool, 4C				
1-120	Poly	Lanthanides	Cool, 4C				
1-120	Amb Glass	Total Organic Carbon	Cool, 4C				
2-250	WM Glass	Rads Ac, Sr, H3, Gamma	None		~~NO entry~~ SB 8-10		
2-250	WM Glass	Rads Pu, Th, U	None		~~JAD 7/22/94~~ SB 8-10		
		LAST ENTRY					

SAMPLE ID'S RINSATE: ~~ER000-2~~ ER0001 SB 8-18 TRIP BLANK: TBA006 FIELD BLANK: AB0003 FIELD DUPLICATE: B07001

RECORDED BY: Sally O'Brown (SIGNATURE) QA CHECKED BY: [signature] 8/10/94 (SIGNATURE)

TASK TEAM ACTIVITY LOG SHEET

SOIL BORING B08 P109

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 TASK NO.: 34896

Date (mm/dd/yy): 7/14/94 TIME: 0700 PAGE 1 OF 3

Task Team Members:

GREG LODER	SAIC	DENNIS SINK	BM
ERIC SAYLOR	SAIC	DWIGHT WORK	BM

Narrative (include time and location):

0700 ON SITE

0710 DRILLERS ARRIVE

0720 HENRY ON-SITE WITH PERMIT DENNIS AND JIM GO TO GET DRUMS

0739 DENNIS IS BACK BEGIN DRILLING

0750 TAKE B08Ø01 OVA=Ø LEL=Ø

0800 PULL SPOON FROM 2-4 OVA= 12 PPM BH

LEL=Ø OVA= Ø PPM BZ

O_2 = 21 OVA= 5 PPM BH w/ METHANE TIP

OVA READINGS INDICATE SOME OTHER CONSTITUENT BESIDES METHANE, CONCENTRATION AROUND 7 PPM

HALT DRILLING

0810 LET HOLE AIR OUT OVA = Ø.6 PPM BH

0815 PULL SPOON FROM 4-6 TO BEGIN B08Ø02

OVA = 12Ø PPM BH LEL=Ø

OVA = Ø PPM BZ O_2 = 19

OVA = 85 PPM BH w/ METHANE TIP

0823 PULL SPOON FROM 6-8 OVA = 21 PPM LEL=Ø

TO BE USED IN B08Ø02

Daily Weather Conditions: A.M. 65°F OVERCAST 80% CHANCE RAIN

P.M. NA

Recorded By [signature] QA Checked By [signature] 7/25/94

TASK TEAM ACTIVITY LOG SHEET

SOIL BORING B08 P110

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1

TASK NO.: 34896

Date (mm/dd/yy): 7/14/94 TIME: NA PAGE 2 OF 3

Task Team Members:

SEE PAGE 109

Narrative (include time and location):

0841 PULL SPOON FROM 8 - 10 OVA = 35 PPM BH LEL = 0

COMPLETE B08002 OVA = 0 PPM BZ

0859 PULL SPOON FROM 10 - 12 OVA = 700 PPM BH LEL = 0

BEGIN B08003 OVA = 200 PPM BZ O_2 = 19

HALT DRILLING CLEAR EVERYBODY AWAY FROM RIG

0911 OVA = 0 BZ

OVA = 15 PPM JUST ABOVE CASING

OVA = >1000 PPM BH

WE WILL RUN DRAEGER TUBES FOR BENZENE AND VINYL CHLORIDE

0935 DRAEGER TUBES NEGATIVE RESUME DRILLING

0943 PULL SPOON FROM 12 - 14 OVA = 500 PPM BH LEL = 0

OVA = 0 PPM BZ

0956 PULL SPOON FROM 14 - 16 OVA = >1000 PPM BH

LEL = >100% OVA = 20 PPM BZ

O_2 = 15%

HALT ALL ACTIVITIES WE WILL WAIT ONE HOUR BEFORE PROCEEDING

1030 LEL > 100% O_2 = 15%

Daily Weather Conditions: A.M. 74°F OVERCAST BREEZY

P.M. NA

Recorded By [signature] QA Checked By [signature] 7/25/94

TASK TEAM ACTIVITY LOG SHEET

SOIL BORING B08 P111

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1

TASK NO.: 34896

Date (mm/dd/yy): 7/14/94 TIME: NA PAGE 3 OF 3

Task Team Members:

SEE PAGE 009

Narrative (include time and location):

1100 LEL > 100% O_2 = 15% BREAK FOR LUNCH

1200 BACK FROM LUNCH PROCEDURE WILL BE TO FLOOD THE BOREHOLE AND ANNULUS AND MONITOR LEL.

1205 FLOODED BOREHOLE AND ANNULUS UP TO GROUND SURFACE WHICH IS STABLE LEVEL. LEL = 2% JUST ABOVE WATER LEVEL O_2 = 20%

1228 DRILLED TO 16' BREAK AUGERS APART WATER STILL AT GROUND LEVEL LEL = 2% O_2 = 20%

1235 PULL SPOON FROM 16-18' OVA = 5 ppm BH LEL = 2%
OVA = Ø ppm BZ O_2 = 21%

1243 PULL SPOON FROM 18-20 OVA = 2 ppm LEL = Ø

1301 PULL SPOON FROM 20-22 OVA = Ø LEL = Ø

1320 " " " 22-24 OVA = Ø LEL = Ø

1328 " " " 24-26 OVA = Ø LEL = Ø

1340 HIT BEDROCK @ ~~26~~ 24' BEGIN GROUTING TWA = 4.54
GL 7/14/94

1435 FINISHED GROUTING DRILLERS LEAVE SITE. MOVE EXCLUSION ZONE TO B09

1600 DRILLERS FINISH DECON ON RIG TO TAKE IT TO SHOP TO FIX HYDRAULIC LEAK

Daily Weather Conditions: A.M. NA

P.M. 80°F PARTLY SUNNY

Recorded By [signature] QA Checked By [signature] 7/25/94

BOREHOLE LOG (SOIL)

SOIL BORING P. 119

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1

PROJECT NO: 34896

FACILITY CODE: MND21

LOCATION ID: B08

COORDINATES (FT):

NORTH NA EAST NA

GROUND ELEVATION (FT MSL)

LOCATION TYPE: NA

COMMENTS: HOLE PRODUCED 1 DRUM OFF CUTTINGS

DRILLER CODE: BONS

COMPLETION DATE 7/14/1994

DIAMETER (IN): 8

DEPTH (FTFD): 26

CONSTRUCTION METHOD: B

ACCEPTANCE CODE: A

GROUNDWATER LEVELS

DATE	TIME	DEPTH (FT)
NONE ENCOUNTERED		

LOCATION DESCRIPTION

15' OFF THE SOUTH SIDE OF THE FIRE STATION

LITHOLOGIC LOG

LOGGER CODE: SAIC

DEPTH (FT)	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE RETAINED	SAMPLE METHOD	SAMPLE ID	BLOW COUNT (PER 6 IN)	N VALUE	USCS	VISUAL DESCRIPTIONS
0	0-2	FULL	FULL	O	B08001	NA	NA	CL	SILT AND CLAY TRACE MEDIUM
									SAND AND GRAVEL DRY
									LOOSE POORLY SORTED
									5GY 5/1 GREENISH GRAY
	2-4	0.1	0	U	NA	29/25/11/13	24	CL	SAME AS ABOVE
	SPOON	0.1							
	4-6	0.2	0.2	U	B08002	20/14/11/17	28	CL	SAME AS ABOVE W SOME
	SPOON								WEATHERED LAMINATED SHALE
									FRAGMENTS

ACCEPTANCE CODES: A - ACCEPTABLE, R - RECONNAISSANCE, U - UNACCEPTABLE, N - NOT DETERMINED

CONSTRUCTION METHODS:

A - AIR ROTARY
B - BORED OR AUGERED
C - CABLE - TOOL
D - DUG
H - HYDRAULIC - ROTORY
J - JETTED
P - AIR - PERCUSSION
R - REVERSE ROTERY
T - TRENCHING
V - DRIVEN
W - DRIVE AND WASH
Z - OTHER (SPECIFY)

SAMPLE METHODS:

A - AUGER CUTTINGS
S - 2" O.D. 1.38" I.D. DRIVE SAMPLES
U - 3" O.D. 2.42" I.D. TUBE SAMPLES
T - 3" O.D. THIN-WALLED SHELBY TUBE
O - OTHER (SPECIFY)

COMPLETE BOLDED DATA FOR ENTRY INTO TIMS

7/14/94 FORM COMPLETED BY / DATE

7/25/94 TECHNICAL REVIEWER / DATE

BOREHOLE LOG (SOIL)

B08

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1

7/25/94 JTP

Page 2

FACILITY CODE: MND21

LOCATION ID: B08

DRILLER CODE: ~~BWOS~~ BOWS

COMPLETION DATE 7 / 14 / 1994

LITHOLOGIC LOG

DEPTH (FT)	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE RETAINED	SAMPLE METHOD	SAMPLE ID	BLOW COUNT (PER 6 IN)	N VALUE	USCS	VISUAL DESCRIPTIONS
6	6-8	0.2	0.2	U	B08082	22/33/22/3	35	CL	CLAY SOME MEDIUM SAND
									TRACE GRAVEL DAMP SOFT
									PLASTIC 5GY 4/1 DARK
									GREENISH GRAY
	8-10	1.6	1.6	U	B08082	18/8/16/18	30	CL	SAME AS ABOVE WITH
									TRACE COBBLES
	10-12	0.6	0.6	U	B08083	30/25/33/17	50	CL	CLAY TRACE FINE SAND
								OH	AND COBBLES MOIST SOFT
							JTP 7/25/94		VERY PLASTIC 5Y
									PALE OLIVE TRACE
									MOTTLES 5BG 5/1
							7/25/94 JTP		GREENISH GRAY
								OH	
	12-14	0.7	0.7	U	B08083	16/14/38/60	90	CL	12-13 SAME AS ABOVE
								OH	13-14 CLAY TRACE FINE
									SAND AND COBBLES DAMP
									VERY FIRM LAMINATED
									PLASTIC PROMINENT NOTUNG
									OF TWO COLORS 5BG 5/1
									GREENISH GRAY AND
									7.5 YR 3/1 VERY DARK GRAY
	14-16	0.1	0.1	U	B08083	44/30/37/58	95	OH	SAME AS ABOVE

COMPLETE BOLDED DATA FOR ENTRY INTO TIMS

7/14/94 FORM COMPLETED BY / DATE

7/25/94 TECHNICAL REVIEWER

BOREHOLE LOG (SOIL) B08 P. 121 SOIL BORING

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 PROJECT NO: 34896

FACILITY CODE: MND21 DRILLER CODE: BOWS

LOCATION ID: B08 COMPLETION DATE 7/14/1994

LITHOLOGIC LOG

DEPTH (FT)	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE RETAINED	SAMPLE METHOD	SAMPLE ID	BLOW COUNT (PER 6 IN)	N VALUE	USCS	VISUAL DESCRIPTIONS
	16-18	Ø	Ø	U	NA	25/30/40/100	140	NA	NO RECOVERY
	18-20	0.4	Ø.4	U	B08003	88/ 100/2	188	NA	SAME AS ABOVE
	20-22	Ø.3	Ø.3	U	NA			OH	~~NO RECOVERY~~ JMD 7-25-94 SAME AS
									ABOVE HIGHLY LAMINATED
	22-24	Ø.2	Ø.2	U	NA				SAME AS ABOVE W/ FRAGMENTS
									OF WEATHERED LIMESTONE
	24-26	Ø	Ø	U	NA				BEDROCK @ 24
						LAST ENTRY			

COMPLETE BOLDED DATA FOR ENTRY INTO TIMS

7/14/94 FORM COMPLETED BY / DATE

7/25/94 TECHNICAL REVIEWER /

COMBUSTIBLE GAS INDICATOR (CGI) MONITORING DATA — SOIL BORING

B08 P. 135

CT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 — PROJECT NO: 34896

CILITY CODE: MND21 — LOG DATE: 7/14/94

GGER CODE: SAIC — FIELD REP: GLODER

I MANUFACTURER: MSA — CGI MODEL NO.: 261

RIAL NO.: 2437 — CALIBRATION DATE/TIME: 7/14/94 0630

CEPTANCE CODE: A — BATTERY CONDITION GOOD

LIBRATION
AS (%LEL)
PE PENTANE CONCENTRATION 35 % LEL — CYLINDER SERIAL NO RR-34825

LIBRATION
AS (PPM)
PE NA CONCENTRATION NA PPM — CYLINDER SERIAL NO NA

OMMENTS: CONTINUED ON PAGE 136

OCATION OR TION	COORDINATES FT NORTH	COORDINATES FT EAST	MONITORING TIME (HH:MM)	LOCATION TYPE	% LOWER EXPLOSIVE LIMIT	PPM	% OXYGEN
308	NA	NA	0750	BH	0	NA	21
			0800		0		21
			0815		0		19
			0823		0		21
			0841		0		21
			0859		0		19
			0943		0		21
			0956		>100		15
			1030		7100		15
			1100		>100		15
			1225		2		20
			1228		2		20
			1235		2		20
			1243		0		21
			1301		0		21

CEPTANCE CODES: A - ACCEPTABLE, R - RECONNAISSANCE, U - UNACCEPTABLE, N - NOT DETERMINED

CATION TYPES: BH - BOREHOLE SL - SURFACE LOCATION TP - TEST PIT WL - WELL

PLETE BOLDED DATA FOR ENTRY INTO TIMS

7/14/94 FORM COMPLETED BY / DATE

7/25/94 TECHNICAL REVIEWER / DATE

B08 Pad

COMBUSTIBLE GAS INDICATOR (CGI) MONITORING DATA

SOIL BO

B08 P

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1

PROJECT NO:

FACILITY CODE: MND21

LOG DATE: 7-14-94

LOGGER CODE: SAIC

FIELD REP: G. LODER

CGI MANUFACTURER: MSA

CGI MODEL NO.: 261

SERIAL NO.: 2437

CALIBRATION DATE/TIME: 7-14-94/0630

ACCEPTANCE CODE: A

BATTERY CONDITION GOOD

CALIBRATION GAS (%LEL) SEE PAGE 135

TYPE PENTANE CONCENTRATION 35 % LEL CYLINDER SERIAL NO 1212-34825

CALIBRATION GAS (PPM)

TYPE NA CONCENTRATION NA PPM CYLINDER SERIAL NO NA

COMMENTS:

LOCATION ID OR DESCRIPTION	COORDINATES FT NORTH	COORDINATES FT EAST	MONITORING TIME (HH:MM)	LOCATION TYPE	% LOWER EXPLOSIVE LIMIT	PPM	% OXYGEN
B08	NA	NA	1320	BH	0	NA	21
"	NA	NA	1328	BH	0	NA	21
			LAST ENTRY				

ACCEPTANCE CODES: A - ACCEPTABLE, R - RECONNAISSANCE, U - UNACCEPTABLE, N - NOT DETERMINED

LOCATION TYPES: BH - BOREHOLE SL - SURFACE LOCATION TP - TEST PIT WL - WELL

COMPLETE BOLDED DATA FOR ENTRY INTO TIMS

7/14/94 FORM COMPLETED BY / DATE

7/25/94 TECHNICAL REVIEWER / DATE

FLAME IONIZATION DETECTOR FIELD DATA — SOIL BORING

B08 P. 137

PROJECT NAME: EG&G MOUND OU5 OPERAIONAL AREA, PHASE 1 — PROJECT NO: 34896

ACTIVITY CODE: MND21 — LOG DATE: 7/14/94

LOCATION ID: B08 — LOCATION TYPE: BH, BZ

LOGGER CODE: SAIC — FIELD REP: GLODER

FLAME IONIZATION DETECTOR INSTRUMENT:

MANUFACTURER: FOXBORO — MODEL NO.: 128

SERIAL NO.: 2241

DATE/TIME CALIBRATION 7/14/94 0630 — ACCEPTANCE CODE: A

CALIBRATION GASES			
TYPE/CYLINDER ID NO.		CONCENTRATION (PPM)	
1	METHANE / 32675	1	100
2	NA	2	NA

COMMENTS

TIME (HH:MM)	SAMPLE ID	OBSERVED READING (ppm) DH	HS	BZ	D	OT (W/ METHANE TIP)	DRILLING DEPTH (ft)	COMMENTS (GW 7/14/94 ~~W/ METHANE TIP~~)
1750	B08001	0	NA	NR	NA	NA	2	NONE
0800	NA	12		0		5	4	
0810	NA	0.6		NR		NR	4	
0815	B08002	120		0		85	6	
0823	"	21		NR		NR	8	
0841	"	35		0			10	
0859	B08003	180		200			12	
0911	"	>1000		0			12	
0943	"	500		0			14	
0956	"	>1000		20			16	
1235	"	5		0			18	
1381	"	0		NR			20	
1320	NA	0					22	
1328	NA	0					24	
		Last Entry						

ACCEPTANCE CODES: A - ACCEPTABLE, R - RECONNAISSANCE, U - UNACCEPTABLE, N - NOT DETERMINED

LOCATION TYPES:
- BH - BOREHOLES
- TP - TEST PIT
- SS - SOIL SAMPLE
- SB - SAMPLE BOTTLE
- L - SURFACE LOCATION
- WL - WELL
- OT - OTHER (EXPLAIN)

OBSERVED READING:
- DH - DOWNHOLE
- HS - HEADSPACE
- BZ - BREATHING ZONE
- D - DURING DRILLING (BZ)
- OT - OTHER

COMPLETE BOLDED DATA FOR ENTRY INTO TIMS

7/14/94 — FORM COMPLETED BY / DATE

7/25/94 — TECHNICAL REVIEWER / DATE

BOREHOLE OR WELL PLUGGING / ABANDONMENT — SOIL BORING

B08 P. 139

PROJECT: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 — PROJECT NO.: 34896

SITE ID NUMBER: B08 DATE PLUGGED 7 / 14 / 94

SITE COORDINATES: N: NA E: NA DEPTH BLS (ft) 26.0

TYPE OF CASING: NA

CASING DIAMETER (ID) (in.) NA GROUND ELEVATION (ft msl) NA

SCREENED ELEVATION (ft msl) NA

GEOLOGIC MATERIAL AT SCREEN NA

AMOUNT OF CASING REMOVED (ft) NA

PLUGGING MATERIAL BENTONITE GROUT

APPROX. VOLUME OF PLUGGING MATERIAL (cu ft.) 9

PLUGGING METHOD TREMIED THROUGH AUGERS

REMARKS 3-50 lb BAGS OF CEMENT AND 1/2-50lb BAG BENTONITE IN A 55 GALLON DRUM OF WATER IS ONE BATCH WHICH IS 7.4 CUBIC FEET

LAST ENTRY

RECORDED BY: [signature] (Signature) QA CHECKED BY: [signature] 7/25/94 (Signature)

B09 pad

SOLID MATRICES

SOIL
- [01] Surface (0-6 inches)
- [02] Subsurface (>6 inches)
- [09] Other

SEDIMENT / SLUDGES
- [11] Lake/Pond
- [12] River/Stream
- [13] Impoundment/Pond
- [14] Drum/Tank
- [19] Other

AIR SAMPLE
- [21] Filter
- [22] Sorbent
- [23] Sweepings/Fugitive Dust
- [24] Gases
- [29] Other

BIOLOGICAL/TERRESTRIAL
- [31] Biota
- [39] Other

GEO-TECHNICAL
- [41] Retained on #40
- [42] Retained on #200
- [43] Passed through #200
- [49] Other

LIQUID MATRICES

SURFACE WATER
- [51] Lake/Pond
- [52] River/Stream
- [53] Impoundment/Pond
- [54] Discharge
- [55] Spring/Seep
- [59] Other

GROUND WATER
- [61] Abandoned Well
- [62] Extraction Well
- [63] Injection Well
- [64] Irrigation Well
- [65] Lysimeter
- [66] Monitoring Well
- [67] Observation Well
- [68] Piezometer
- [69] Other
- [6A] Public Water Supply
- [6B] Purge Well
- [6C] Test Well
- [6D] Vapor Well
- [6E] Leachate Well

CONTAINERIZED

SEALED	UNSEALED
[71] Drum/Tank	[81] Drum/Tank
[79] Other	[89] Other

SAMPLE LOG SHEET

P. 144-

PROJECT NAME: Mound Operational Area

PROJECT NO: 2680

SAMPLE ID NUMBER: B08001 DATE COLLECTED (MM/DD/YY): 7/14/94 TIME (HH:MM): 0750

SAMPLING -

LOCATION CODE: MNDOA

DESCRIPTION: MOUND OPERATIONAL AREA

POINT CODE: B08

DESCRIPTION: OPERAIONAL AREA BORING #8

SAMPLE -

MEDIA CODE: 01

DESCRIPTION: Soil Surface (0 - 6 Inches) 7/25/94

DEPTH 0.00 TO ~~5.00~~ 2.00 FT

SAMPLE TYPE:

- [X] GRAB
- [ ] TIME COMPOSITE
- [ ] QC RINSATE
- [ ] OTHER (SPECIFY) _____
- [ ] SPATIAL COMPOSITE
- [ ] QC TRIP BLANK
- [ ] QC FIELD BLANK

FIELD OBSERVATIONS: NONE

SAMPLE COLLECTED: [X] YES [ ] NO

SAP SAMPLING PROCEDURE WAS FOLLOWED: [X] YES [ ] NO FIELD CHANGE ORDER REFERENCE NO: NA

IF SAP WAS NOT FOLLOWED, SPECIFY WHAT DEVIATIONS WERE NECESSARY AND WHY (INCLUDE FIELD CHANGE ORDER REFERENCE NO.):

NA

RECORDED BY: [illegible] DATE: [illegible]

RECORDED BY: [illegible] QA CHECKED BY: [illegible]

SAMPLE ID NUMBER: B08001 P 145

CONTAINER VOLUME (ml)	CONTAINER TYPE	METHOD NAME AND NUMBER ANALYSIS	PRESERVATIVES (TYPE/VOL)	C-O-C #	AIR BILL #	CONTAINER LOT #	LABORATORY
1-120	WM Glass	CLPVOA	Cool,4C	OAC014	8219960700	SEE CONTAINER LOT # LOG	COMPUC
1-250	AmbGlass	SVOC,PEST/PCB	Cool,4C				COMPUC
1-250	AmbGlass	EXPLOSIVES	Cool,4C				COMPUC
2-250	WM Glass	ANIONS Fl,SO4,Cl,NO2/NO3	Cool,4C				COMPUC
1-250	WM Glass	METALS,Cyanide	Cool,4C				COMPUC
1-120	Poly	LANTHANIDES	Cool,4C				COMPUC
1-120	AmbGlass	TOTAL ORGANIC CARBON	Cool,4C				COMPUC
2-250	WM GLASS	RADS Ac,Sr,H3,GAMMA	NONE				COMPUC
2-250	WM GLASS	RADS Pu,Th,U	NONE				COMPUC
			LAST ENTRY				

AC 7/14/94

SM

SAMPLE ID'S RINSATE: ER0001 TRIP BLANK: TBA014 FIELD BLANK: AB0003 FIELD DUPLICATE: NA

RECORDED BY: [signature] (SIGNATURE) QA CHECKED BY: [signature] 7/25/94 (SIGNATURE)

SAMPLE LOG SHEET

P. 146

PROJECT NAME: Mound Operational Area

PROJECT NO: 2680

SAMPLE ID NUMBER: B08002 DATE COLLECTED (MM/DD/YY): 7/14/94 TIME (HH:MM): 0815

SAMPLING -

LOCATION CODE: MNDOA

DESCRIPTION: MOUND OPERATIONAL AREA

POINT CODE: B08

DESCRIPTION: OPERAIONAL AREA BORING #8

SAMPLE -

MEDIA CODE: 02

DESCRIPTION: Soil Subsurface (>6 Inches)

DEPTH 5.00 TO 10.00 FT

SAMPLE TYPE:

- [X] GRAB
- [ ] SPATIAL COMPOSITE
- [ ] TIME COMPOSITE
- [ ] QC TRIP BLANK
- [ ] QC RINSATE
- [ ] QC FIELD BLANK
- [ ] OTHER (SPECIFY) _____

FIELD OBSERVATIONS: NONE

SAMPLE COLLECTED: [X] YES [ ] NO

SAP SAMPLING PROCEDURE WAS FOLLOWED: [X] YES [ ] NO FIELD CHANGE ORDER REFERENCE NO: NA

IF SAP WAS NOT FOLLOWED, SPECIFY WHAT DEVIATIONS WERE NECESSARY AND WHY (INCLUDE FIELD CHANGE ORDER REFERENCE NO.):

NA

RECORDED BY: [illegible]

RECORDED BY: [illegible] (SIGNATURE) QA CHECKED BY: [illegible] (SIGNATURE)

SAMPLE LOG SHEET

SAMPLE ID NUMBER: B08002 P. 147

CONTAINER VOLUME (ml)	CONTAINER TYPE	METHOD NAME AND NUMBER ANALYSIS	PRESERVATIVES (TYPE/VOL)	C-O-C #	AIR BILL #	CONTAINER LOT #	LABORATORY
1-120	WM Glass	CLPVOA	Cool,4C	OAC014	8219968700	SEE CONTAINER LOT # LOG	COMPUC
1-250	AmbGlass	SVOC,PEST/PCB	Cool,4C				COMPUC
1-250	AmbGlass	EXPLOSIVES	Cool,4C				COMPUC
1-250	WM Glass	ANIONS Fl,SO4,Cl,N02/N03	Cool,4C				COMPUC
1-250	WM Glass	METALS,Cyanide	Cool,4C				COMPUC
1-120	Poly	LANTHANIDES	Cool,4C				COMPUC
1-120	AmbGlass	TOTAL ORGANIC CARBON	Cool,4C				COMPUC
2-250	WM GLASS	RADS Ac,Sr,H3,GAMMA	NONE				COMPUC
2-250	WM GLASS	RADS Pu,Th,U	NONE				COMPUC
			LAST ENTRY				

SAMPLE ID'S RINSATE: ER0006 TRIP BLANK: TBA014 FIELD BLANK: AB0003 FIELD DUPLICATE: NA

RECORDED BY: [illegible] (SIGNATURE) QA CHECKED BY: [illegible] 7/25/94 (SIGNATURE)

SAMPLE LOG SHEET

P. 148

PROJECT NAME: Mound Operational Area

PROJECT NO: 2680

SAMPLE ID NUMBER: B08003 DATE COLLECTED (MM/DD/YY): 7/14/94 TIME (HH:MM): 0859

SAMPLING -

LOCATION CODE: MNDOA

DESCRIPTION: MOUND OPERATIONAL AREA

POINT CODE: B08

DESCRIPTION: OPERAIONAL AREA BORING #8

SAMPLE -

MEDIA CODE: 02

DESCRIPTION: Soil Subsurface (>6 Inches)

DEPTH 10.00 TO 22.00 FT

SAMPLE TYPE:

- [X] GRAB
- [ ] TIME COMPOSITE
- [ ] QC RINSATE
- [ ] OTHER (SPECIFY)
- [ ] SPATIAL COMPOSITE
- [ ] QC TRIP BLANK
- [ ] QC FIELD BLANK

FIELD OBSERVATIONS:

Very Poor Recovery - multiple spoons required to collect sample

MD 7/25/94

SAMPLE COLLECTED: [X] YES [ ] NO

SAP SAMPLING PROCEDURE WAS FOLLOWED: [X] YES [ ] NO FIELD CHANGE ORDER REFERENCE NO: NA

IF SAP WAS NOT FOLLOWED, SPECIFY WHAT DEVIATIONS WERE NECESSARY AND WHY (INCLUDE FIELD CHANGE ORDER REFERENCE NO.):

NA

RECORDED BY: [signature] QA CHECKED BY: [signature] 7/25/94

RECORDED BY: [illegible] (SIGNATURE) QA CHECKED BY: [illegible] (SIGNATURE)

SAMPLE ID NUMBER: BØBØØ3 P. 149

CONTAINER VOLUME (ml)	CONTAINER TYPE	METHOD NAME AND NUMBER ANALYSIS	PRESERVATIVES (TYPE/VOL)	C-O-C #	AIR BILL #	CONTAINER LOT #	LABORATORY
1-12Ø	WM Glass	CLPVOA	Cool,4C	OACØ14	8219960780	SEE CONTAINER LOT #LOG	COMPUC
1-25Ø	AmbGlass	SVOC,PEST/PCB	Cool,4C				COMPUC
1-25Ø	AmbGlass	EXPLOSIVES	Cool,4C				COMPUC
GC 7/14/94 2-25Ø	WM Glass	ANIONS Fl,SO4,Cl,NØ2/NØ3	Cool,4C				COMPUC
1-25Ø	WM Glass	METALS,Cyanide	Cool,4C				COMPUC
1-12Ø	Poly	LANTHANIDES	Cool,4C				COMPUC
1-12Ø	AmbGlass	TOTAL ORGANIC CARBON	Cool,4C				COMPUC
2-25Ø	WM GLASS	RADS Ac,Sr,H3,GAMMA	NONE				COMPUC
2-25Ø	WM GLASS	RADS Pu,Th,U	NONE				COMPUC
		LAST ENTRY					

SAMPLE ID'S RINSATE: ER0006 TRIP BLANK: TBAØ14 FIELD BLANK: AB0003 FIELD DUPLICATE: NA

RECORDED BY: [illegible] (SIGNATURE) QA CHECKED BY: [illegible] 7/25/94 (SIGNATURE)

TASK TEAM ACTIVITY LOG SHEET

SOIL BORING B09 p.217

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1

TASK NO.: 34896

Date (mm/dd/yy): 7/19/94 TIME: 0725 PAGE 1 OF 3

Task Team Members:

GREG LODER SAIC | DENNIS SINK BM

GEORGE WAHL SAIC | DWIGHT WORK BM

Narrative (include time and location):

0725 ON SITE DRILLERS HERE @ 0700

0735 HENRY ON SITE W/ PERMIT

0742 BEGIN DRILLING HENRY GETS HIS SURFACE SAMPLES

0751 TAKE B09001 OVA = 2 ppm BH LEL=0

COLLECT AMBIENT

0807 PULL SPOON FROM 2-4 OVA = 150 ppm BH LEL = 0

OVA = 0 BZ

OVA = 150 W/ METHANE TIP

0819 PULL SPOON FROM 4-6 OVA = 25 ppm BH LEL=0

0831 PULL SPOON FROM 6-8 OVA = 2 ppm LEL=0

TAKE VOA FOR B09002 AND B09102

0839 PULL SPOON FROM 8-10 OVA = 4 ppm LEL=0

0849 " " " 10-12 OVA = 150 ppm BH LEL=0

FINISH B09002 AND B09102 OVA = 0 ppm BZ

0912 PULL SPOON FROM 12-14 OVA = 12 ppm LEL=0 START B09003

0920 " " " 14-16 OVA = 100 ppm BH LEL = 24%

OVA = 0 ppm BZ O_2 = 17%

0925 FILL BOREHOLE WITH WATER LEL = 0 CONTINUE DRILLING

0929 PULL SPOON FROM 16-18 OVA = >1000 BH LEL = 60% O_2 = 16%

OVA = 0 BZ

Daily Weather Conditions: A.M. 70°F SUNNY CLEAR

P.M. NA

Recorded By [signature] QA Checked By [signature] 7/25/94

TASK TEAM ACTIVITY LOG SHEET

SOIL BORING B09 P.218

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1

TASK NO.: 34896

Date (mm/dd/yy): 7/19/94 TIME: N.A PAGE 2 OF 3

Task Team Members:

SEE PAGE 217

Narrative (include time and location):

0933 WATER LEVEL HAD FALLEN BELOW UPPERMOST AUGER JOINT. WHEN REFILLED WITH WATER LEL = Ø

0944 PULL SPOON FROM 18 - 20 OVA = Ø LEL = Ø

1007 " " " 20 - 22 OVA = Ø LEL = NR

BEGIN B09ØØ4

1010 LEL SUCKED UP SOME WATER, WE WILL HAVE TO GO TO TRAILER TO CALIBRATE A NEW ONE

1030 BACK WITH NEW LEL, LEL = Ø DRILLERS LEFT TO FILL WATER TRUCK

1035 RESUME DRILLING

1047 PULL SPOON FROM 22 - 24 LEL = Ø OVA = Ø

1057 PULL SPOON FROM 24 - 26 OVA = 15 PPM BH LEL = Ø

START B09ØØ5

1115 PULL SPOON FROM 26 - 28 OVA = 9 PPM BH LEL = Ø

1130 " " " 28 - 30 OVA = Ø LEL = Ø

1149 " " " 30 - 32 OVA = Ø LEL = Ø

1200 BREAK FOR LUNCH

1310 RESUME DRILLING

1320 PULL SPOON FROM 32 - 34 HIT BEDROCK @ 33'

Daily Weather Conditions: A.M. 80°F SUNNY

P.M. SAME

Recorded By [signature] QA Checked By [signature] 7/25/94

TASK TEAM ACTIVITY LOG SHEET

SOIL BORING

B09 p. 219

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1

TASK NO.: 34896

Date (mm/dd/yy): 7/19/94 TIME: NA PAGE 3 OF 3

Task Team Members:

SEE PAGE 217

Narrative (include time and location):

1330 BEGIN GROUTING, JOYCE ON SITE. WE CHECKED OUT BIZ AND IT IS STILL TOO CLOSE TO OVERHEAD POWER LINES SHE WILL LOOK INTO HAVING IT MOVED ANOTHER 5' SOUTH. SHE ALSO NEEDS TO COORDINATE WITH SECURITY TO BLOCK PART OF THE ROAD

1450 FINISH GROUTING WE WILL SKIP DECON ON BACK OF RIG TO SAVE TIME TWA FOR AIR MONITORING = 2.26

1500 MOVED EXCLUSION ZONE DOWN TO BIZ. LEAVE SITE

LAST ENTRY

Daily Weather Conditions: A.M. NA

P.M. 85°F SUNNY

Recorded By [signature] QA Checked By [signature] 7/25/94

BOREHOLE LOG (SOIL)

SOIL BORING B09 P-227

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1

PROJECT NO: 34896

FACILITY CODE: MN7Z1

LOCATION ID: B09

COORDINATES (FT):

NORTH NA EAST NA

GROUND ELEVATION (FT MSL)

LOCATION TYPE: BH

COMMENTS: NONE

DRILLER CODE: BOWS

COMPLETION DATE 7/19/1994

DIAMETER (IN): 8

DEPTH (FTFD): 33.0

CONSTRUCTION METHOD: B

ACCEPTANCE CODE: A

GROUNDWATER LEVELS

DATE	TIME	DEPTH (FT)
NONE ENCOUNTERED		

LOCATION DESCRIPTION

10' NORTH OF BLDG 66 IN GRAVEL AREA

LITHOLOGIC LOG

LOGGER CODE: SAIC

DEPTH	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE RETAINED	SAMPLE METHOD	SAMPLE ID	BLOW COUNT (PER 6 IN)	N VALUE	USCS	VISUAL DESCRIPTIONS
0	0-2	FULL	FULL	O	B09001	NA	NA	SM	SILT TRACE MEDIUM SAND AND
									GRAVEL DRY, LOOSE POORLY
									SORTED 5/5/1 GRAY
	2-4	1.3	0	U	NA	6/7/16/14	30	SM	2-2.5 SAME AS ABOVE
2.5								CL	2.5-4 CLAY SOME SILT TRACE
									SAND AND GRAVEL FIRM
									DRY & SLIGHTLY PLASTIC
									POORLY SORTED ANGULAR UP
									TO 35 MM 5GY 5/1
									GREENISH GRAY

ACCEPTANCE CODES: A - ACCEPTABLE, R - RECONNAISSANCE, U - UNACCEPTABLE, N - NOT DETERMINED

CONSTRUCTION METHODS:

A - AIR ROTARY
B - BORED OR AUGERED
BLE - TOOL
JG
H - HYDRAULIC - ROTORY
J - JETTED
P - AIR - PERCUSSION
R - REVERSE ROTERY
T - TRENCHING
V - DRIVEN
W - DRIVE AND WASH
Z - OTHER (SPECIFY)

SAMPLE METHODS:

A - AUGER CUTTINGS
S - 2" O.D. 1.38" I.D. DRIVE SAMPLES
U - 3" O.D. 2.42" I.D. TUBE SAMPLES
T - 3" O.D. THIN-WALLED SHELBY TUBE
O - OTHER (SPECIFY)

COMPLETE BOLDED DATA FOR ENTRY INTO TIMS

FORM COMPLETED BY / DATE 7/19/94

TECHNICAL REVIEWER / DATE 7/25/94

BOREHOLE LOG (SOIL)

B09 P. 228

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1

PROJECT NO.

FACILITY CODE: MND21

LOCATION ID: B09

DRILLER CODE: BOWS

COMPLETION DATE 7/19/1994

LITHOLOGIC LOG

DEPTH (FT)	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE RETAINED	SAMPLE METHOD	SAMPLE ID	BLOW COUNT (PER 6 IN)	N VALUE	USCS	VISUAL DESCRIPTIONS
	4-6	0.9	0.9	U	B09002	8/8/12/27	39	CL	SAME AS ABOVE
					B09102				
6	6-8	0.7	0.7	U	B09002	17/33/20/16	36	CL	CLAY TRACE FINE SAN
	SECOND SPOON	0.5	0.5	U	B09102				AND GRAVEL AND COBBL
					B09002				SOFT PLASTIC POORLY SO
									ANGULAR COBBLES UP TO 4
									2.5 Y 5/3 LIGHT OLIVE BR
	8-10	1.2	1.2	U	B09102	15/21/25/21	29	CL	SAME AS ABOVE
					B09002		JMD 7/25/94		
	10-12	0.6	0.6	U	~~B09005~~	GL 7/19/94	~~109~~	CL	SAME AS ABOVE
						8/34/17/11	28		
	12-14	0.3	0.3	U	B09003	14/12/9/19	38	CL	SAME AS ABOVE
14	14-16	1.4	1.4	U	"	8/6/9/21	30	CH	CLAY TRACE FINE SAND A
									GRAVEL SOFT MOIST VERY
									PLASTIC N/5 GRAY
	16-18	0.2	0.2	U	"	35/ 100/3	103	CH	SAME AS ABOVE
	18-20	1.5	1.5	U	"	20/42/43/39	82	CH	SAME AS ABOVE BUT FIR
	20-22	0	0	U	B09004	26/26/50/76	126	NA	HIT A COBBLE
	22-24	1.5	1.5	U	B09004	20/75/75/23	98	CH	22-23 SAME AS ABOVE
23								CL	23-24 CLAY SOME COARSE
									SAND AND GRAVEL POOR SORTED M
									PLASTIC WELL ROUNDED UP TO 2
									10 YR 4/3 BROWN

COMPLETE BOLDED DATA FOR ENTRY INTO TIMS

FORM COMPLETED BY / DATE

TECHNICAL REVIEWER 8/25/94

BOREHOLE LOG (SOIL)

SOIL BORING B09 P. 229

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1

PROJECT NO: 34896

FACILITY CODE: MND21

LOCATION ID: B09

DRILLER CODE: BOWS

COMPLETION DATE 7 / 19 / 1994

LITHOLOGIC LOG

DEPTH (FT)	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE RETAINED	SAMPLE METHOD	SAMPLE ID	BLOW COUNT (PER 6 IN)	N VALUE	USCS	VISUAL DESCRIPTIONS
	24-26	1.4	1.0	U	B09005	14/25/17/20	37	CL	SAME AS ABOVE BUT MORE FIRM
	26-28	1.0	1.0	U	B09005	10/22/30/40	70	CL	SAME AS ABOVE ONE 40mm COBBLE AND SOME SLIGHTLY WEATHERED SHALE FRAGMENTS IN TIP
	28-30	0.3	0.3	U	B09005	10/30/33/45	78	CL	SAME AS ABOVE
	30-32	0	0	U	NA	34/ 100/5	105	NA	NO RECOVERY
33	32-34	0.3	0	U	NA	70/ 100/3	103	NA	HIGHLY WEATHERED SHALE FRAGMENTS ON TOP OF UNWEATHERED FRACTURED SHALE BROKEN UP BY SPOON BEDROCK @ 33.0
					LAST ENTRY				

COMPLETE BOLDED DATA FOR ENTRY INTO TIMS

7/19/94 FORM COMPLETED BY / DATE

7/25/94 TECHNICAL REVIEWER /

COMBUSTIBLE GAS INDICATOR (CGI) MONITORING DATA — SOIL BORING B09 P243

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 — PROJECT NO: 34896

Y CODE: MNDZ1 — LOG DATE: 7/19/94

GGER CODE: SAIC — FIELD REP: G. LODER

I MANUFACTURER: MSA — CGI MODEL NO.: Z61

RIAL NO.: Z437 — CALIBRATION DATE/TIME: 7/19/94 0630

CEPTANCE CODE: A — BATTERY CONDITION GOOD

LIBRATION S (%LEL)

PE Pentane CONCENTRATION 35 % LEL — CYLINDER SERIAL NO RR-34825

LIBRATION S (PPM)

PE NA CONCENTRATION NA PPM — CYLINDER SERIAL NO NA

MMENTS: NONE

CONTINUED pg 244

OCATION ID OR PTION	COORDINATES FT NORTH	COORDINATES FT EAST	MONITORING TIME (HH:MM)	LOCATION TYPE	% LOWER EXPLOSIVE LIMIT	PPM	% OXYGEN
SW9	NA	NA	0751	BH	0	NA	NR
			0807		0		
			0819		0		
			0831		0		
			0839		0		
			0849		0		
			0912		0		
			0920		24		17
			0925		0		NR
			0929		60		16
			0933		0		NR
			0944		0		
			1030		0		
			1047		0		
			1057		0		

ACCEPTANCE CODES: A - ACCEPTABLE, R - RECONNAISSANCE, U - UNACCEPTABLE, N - NOT DETERMINED

TYPES: BH - BOREHOLE SL - SURFACE LOCATION TP - TEST PIT WL - WELL

ETE BOLDED DATA FOR ENTRY INTO TIMS

7/19/94 FORM COMPLETED BY / DATE

7/25/94 TECHNICAL REVIEWER / DATE

COMBUSTIBLE GAS INDICATOR (CGI) MONITORING DATA

SOIL BORING B09 P.24

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 PROJECT NO: 34

FACILITY CODE: MND21 **LOG DATE:** 7/19/94

LOGGER CODE: SAIC FIELD REP: G. LODER

CGI MANUFACTURER: MSA CGI MODEL NO.: 261

SERIAL NO.: 2437 CALIBRATION DATE/TIME: 7/19/94 : 0630

ACCEPTANCE CODE: A BATTERY CONDITION GOOD

CALIBRATION GAS (%LEL) TYPE PENTANE CONCENTRATION 35 % LEL CYLINDER SERIAL NO RR38245

CALIBRATION GAS (PPM) TYPE NA CONCENTRATION NA PPM CYLINDER SERIAL NO NA

COMMENTS: NONE

LOCATION ID OR DESCRIPTION	COORDINATES FT NORTH	COORDINATES FT EAST	MONITORING TIME (HH:MM)	LOCATION TYPE	% LOWER EXPLOSIVE LIMIT	PPM	% OXYGEN
B09	NA	NA	1115	BH	0	NA	NA
↓	↓	↓	1130	↓	0	↓	↓
			1149		0		
				LAST ENTRY			

ACCEPTANCE CODES: A - ACCEPTABLE, R - RECONNAISSANCE, U - UNACCEPTABLE, N - NOT DETERMINED

LOCATION TYPES: BH - BOREHOLE SL - SURFACE LOCATION TP - TEST PIT WL - W

COMPLETE BOLDED DATA FOR ENTRY INTO TIMS

7/19/94 FORM COMPLETED BY / DATE

7/25/94 TECHNICAL REVIEWER / DATE

FLAME IONIZATION DETECTOR FIELD DATA

SOIL BORING B09 p.245

PROJECT NAME: EG&G MOUND OU5 OPERAIONAL AREA, PHASE 1

PROJECT NO: 34896

.ITY CODE: MNDZ1

LOG DATE: 7/19/94

LOCATION ID B09

LOCATION TYPE: BH, BZ

LOGGER CODE: SALC

FIELD REP: G. LODER

FLAME IONIZATION DETECTOR INSTRUMENT:

MANUFACTURER: FOXBORO

MODEL NO.: 128

SERIAL NO.: 2241

DATE/TIME CALIBRATION 7/19/94 0630

ACCEPTANCE CODE: A

CALIBRATION GASES			
TYPE/CYLINDER ID NO.		CONCENTRATION (PPM)	
1	METHANE / 32875	1	100
2	NA	2	NA

COMMENTS NONE

TIME (HH:MM)	SAMPLE ID	OBSERVED READING (ppm)					DRILLING DEPTH (ft)	COMMENTS
		DH	HS	BZ	D	METHANE ~~OT~~ TP		
[illegible]	B09001	2	NA	NR	NA	NR	0-2	NONE
0807	NA	150		0		150	4	
0819	B09002, 102	25		NR		NR	6	
0831	"	2					8	
0839	"	4					10	
0849	"	100		0			12	
0912	B09003	12		NR			14	
0920	"	100		0			16	
~~0925~~ 7/19/94	"							
0929	"	>1000		0			18	
0933		NR		NR			NA	
0944	"	0		0			20	
~~1037~~ 1007	B09004	0		NR			22	
~~1047~~ 1047	"	0					24	
~~1057~~ 1057	B09005	0					26	

ACCEPTANCE CODES: A - ACCEPTABLE, R - RECONNAISSANCE, U - UNACCEPTABLE, N - NOT DETERMINED

LOCATION TYPES:		OBSERVED READING:	
BH - BOREHOLES	SB - SAMPLE BOTTLE	DH - DOWNHOLE	BZ - BREATHING ZONE
TP - TEST PIT	L - SURFACE LOCATION	HS - HEADSPACE	D - DURING DRILLING (BZ)
SS - SOIL SAMPLE	WL - WELL		OT - OTHER
	OT - OTHER (EXPLAIN)		

COMPLETE BOLDED DATA FOR ENTRY INTO TIMS

7/19/94 FORM COMPLETED BY / DATE

7/28/94 TECHNICAL REVIEWER / DATE

FLAME IONIZATION DETECTOR FIELD DATA

SOIL BORING

B09 P. 246

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1

PROJECT NO: 3485

FACILITY CODE: MND21

LOG DATE: 7/19/94

LOCATION ID: B09

LOCATION TYPE: BH

LOGGER CODE: SAIC

FIELD REP: G LOCER

FLAME IONIZATION DETECTOR INSTRUMENT:

MANUFACTURER: FOXBORO

MODEL NO.: 128

SERIAL NO.: 2241

DATE/TIME CALIBRATION 7/19/94 0630

ACCEPTANCE CODE: A

CALIBRATION GASES			
TYPE/CYLINDER ID NO.		CONCENTRATION (PPM)	
1	METHANE / 32875	1	100
2	NA	2	NA

COMMENTS NONE

TIME (HH:MM)	SAMPLE ID	OBSERVED READING (ppm)					DRILLING DEPTH (ft)	COMMENTS
		DH	HS	BZ	D	OT		
1115	B09005	9	NA	NR	NA	NA	28	NONE
1130	"	0	↓	↓	↓	↓	30	↓
1149	"	0	↓	↓	↓	↓	32	↓
			LAST ENTRY					

ACCEPTANCE CODES: A - ACCEPTABLE, R - RECONNAISSANCE, U - UNACCEPTABLE, N - NOT DETERMINED

LOCATION TYPES:		OBSERVED READING:	
BH - BOREHOLES	SB - SAMPLE BOTTLE	DH - DOWNHOLE	BZ - BREATHING ZONE
TP - TEST PIT	L - SURFACE LOCATION	HS - HEADSPACE	D - DURING DRILLING (BZ)
SS - SOIL SAMPLE	WL - WELL		OT - OTHER
	OT - OTHER (EXPLAIN)		

COMPLETE BOLDED DATA FOR ENTRY INTO TIMS

7/19/94 FORM COMPLETED BY / DATE

7/28/94 TECHNICAL REVIEWER / DATE

BOREHOLE OR WELL PLUGGING / ABANDONMENT

SOIL BORING B09 p. 247

PROJECT: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1

PROJECT NO.: 34896

SITE ID NUMBER: B09 DATE PLUGGED 7 / 19 / 94

SITE COORDINATES: N: NA E: NA DEPTH BLS (ft) 33.0

TYPE OF CASING: NA

CASING DIAMETER (ID) (in.) NA GROUND ELEVATION (ft msl)

SCREENED ELEVATION (ft msl) NA

GEOLOGIC MATERIAL AT SCREEN NA

NA

AMOUNT OF CASING REMOVED (ft) NA

PLUGGING MATERIAL BENTONITE GROUT

APPROX. VOLUME OF PLUGGING MATERIAL (cu ft.) 11.6

PLUGGING METHOD TREMIED THROUGH AUGERS

REMARKS 3 - 50lb BAGS CEMENT AND 1/2 - 50lb BAG BENTONITE IN 55 GALLONS OF WATER IS ONE 7.4 ft^3 BATCH GROUT

LAST ENTRY

RECORDED BY: (Signature) QA CHECKED BY: 7/28/94 (Signature)

SOLID MATRICES

SOIL
- [01] Surface (0-6 inches)
- [02] Subsurface (>6 inches)
- [09] Other

SEDIMENT / SLUDGES
- [11] Lake/Pond
- [12] River/Stream
- [13] Impoundment/Pond
- [14] Drum/Tank
- [19] Other

AIR SAMPLE
- [21] Filter
- [22] Sorbent
- [23] Sweepings/Fugitive Dust
- [24] Gases
- [29] Other

BIOLOGICAL/TERRESTRIAL
- [31] Biota
- [39] Other

GEO-TECHNICAL
- [41] Retained on #40
- [42] Retained on #200
- [43] Passed through #200
- [49] Other

LIQUID MATRICES

SURFACE WATER
- [51] Lake/Pond
- [52] River/Stream
- [53] Impoundment/Pond
- [54] Discharge
- [55] Spring/Seep
- [59] Other

GROUND WATER
- [61] Abandoned Well
- [62] Extraction Well
- [63] Injection Well
- [64] Irrigation Well
- [65] Lysimeter
- [66] Monitoring Well
- [67] Observation Well
- [68] Piezometer
- [69] Other
- [6A] Public Water Supply
- [6B] Purge Well
- [6C] Test Well
- [6D] Vapor Well
- [6E] Leachate Well

CONTAINERIZED

SEALED	UNSEALED
[71] Drum/Tank	[81] Drum/Tank
[79] Other	[89] Other

SAMPLE LOG SHEET

PROJECT NAME: Mound Operational Area **PROJECT NO:** 2680 P. 252

SAMPLE ID NUMBER: B09001 DATE COLLECTED (MM/DD/YY): 7/19/94 TIME (HH:MM): 0751

SAMPLING -

LOCATION CODE: MNDOA

DESCRIPTION: MOUND OPERATIONAL AREA

POINT CODE: B09

DESCRIPTION: OPERAIONAL AREA BORING #9

SAMPLE -

MEDIA CODE: 01

DESCRIPTION: Soil Surface (0 - 6 Inches)

DEPTH 0.00 TO ~~5.00~~ 2.00 FT

al 7/19/94

SAMPLE TYPE:

- [X] GRAB
- [ ] TIME COMPOSITE
- [ ] QC RINSATE
- [ ] OTHER (SPECIFY)
- [ ] SPATIAL COMPOSITE
- [ ] QC TRIP BLANK
- [ ] QC FIELD BLANK

FIELD OBSERVATIONS: NONE

SAMPLE COLLECTED: [X] YES [ ] NO

SAP SAMPLING PROCEDURE WAS FOLLOWED: [X] YES [ ] NO FIELD CHANGE ORDER REFERENCE NO: NA

IF SAP WAS NOT FOLLOWED, SPECIFY WHAT DEVIATIONS WERE NECESSARY AND WHY (INCLUDE FIELD CHANGE ORDER REFERENCE NO.):

NA

RECORDED BY: [signature] QA CHECKED BY: [signature] 7/25/94

RECORDED BY: [signature] (SIGNATURE) QA CHECKED BY: [signature] 1/03/94 (SIGNATURE)

SAMPLE ID NUMBER: B09001 p. 253

CONTAINER VOLUME (ml)	CONTAINER TYPE	METHOD NAME AND NUMBER ANALYSIS	PRESERVATIVES (TYPE/VOL)	C-O-C #	AIR BILL #	CONTAINER LOT #	LABORATORY
1-120	WM Glass	CLPVOA	Cool,4C	OAC015	8219960556	SEE CONTAINER LOT # LOG	COMPUC
1-250	AmbGlass	SVOC,PEST/PCB	Cool,4C				COMPUC
1-250	AmbGlass	EXPLOSIVES	Cool,4C				COMPUC
2-250	WM Glass	ANIONS Fl,SO4,Cl,N02/N03	Cool,4C				COMPUC
1-250	WM Glass	METALS,Cyanide	Cool,4C				COMPUC
1-120	Poly	LANTHANIDES	Cool,4C				COMPUC
1-120	AmbGlass	TOTAL ORGANIC CARBON	Cool,4C				COMPUC
2-250	WM GLASS	RADS Ac,Sr,H3,GAMMA	NONE				COMPUC
2-250	WM GLASS	RADS Pu,Th,U	NONE				COMPUC
			LAST ENTRY				

gc 1/28/94

253

SAMPLE ID'S RINSATE: ER0001 TRIP BLANK: TBA015 FIELD BLANK: AB0005 FIELD DUPLICATE: NA

RECORDED BY: [signature] (SIGNATURE) QA CHECKED BY: [signature] 7/28/94 (SIGNATURE)

SAMPLE LOG SHEET

PROJECT NAME: Mound Operational Area **PROJECT NO:** 2680 P. 254

SAMPLE ID NUMBER: B09002 DATE COLLECTED (MM/DD/YY): 7/19/94 TIME (HH:MM): 0831

SAMPLING -

LOCATION CODE: MNDOA

DESCRIPTION: MOUND OPERATIONAL AREA

POINT CODE: B09

DESCRIPTION: OPERAIONAL AREA BORING #9

SAMPLE -

MEDIA CODE: 02

DESCRIPTION: Soil Subsurface (> 6 Inches)

DEPTH 5.00 TO 12.00 FT

SAMPLE TYPE:

- [X] GRAB
- [ ] TIME COMPOSITE
- [ ] QC RINSATE
- [ ] OTHER (SPECIFY)
- [ ] SPATIAL COMPOSITE
- [ ] QC TRIP BLANK
- [ ] QC FIELD BLANK

FIELD OBSERVATIONS: NONE

SAMPLE COLLECTED: [X] YES [ ] NO

SAP SAMPLING PROCEDURE WAS FOLLOWED: [X] YES [ ] NO FIELD CHANGE ORDER REFERENCE NO: NA

IF SAP WAS NOT FOLLOWED, SPECIFY WHAT DEVIATIONS WERE NECESSARY AND WHY (INCLUDE FIELD CHANGE ORDER REFERENCE NO.):

NA

RECORDED BY: [signature] (SIGNATURE) QA CHECKED BY: [signature] 7/28/94

RECORDED BY: _____ (SIGNATURE) QA CHECKED BY: _____ 7/28/94 (SIGNATURE)

SAMPLE ID NUMBER: B09002 P. 255

CONTAINER VOLUME (ml)	CONTAINER TYPE	METHOD NAME AND NUMBER ANALYSIS	PRESERVATIVES (TYPE/VOL)	C-O-C #	AIR BILL #	CONTAINER LOT #	LABORATORY
1-120	WM Glass	CLPVOA	Cool,4C	OAC015 ~~OASO~~ AL 7/19/94	8219960556	SEE CONTAINER LOT # LOG	COMPUC
1-250	AmbGlass	SVOC,PEST/PCB	Cool,4C				COMPUC
1-250	AmbGlass	EXPLOSIVES	Cool,4C				COMPUC
AL 7/19/94 1-250	WM Glass	ANIONS Fl,SO4,Cl,NO2/NO3	Cool,4C				COMPUC
1-250	WM Glass	METALS,Cyanide	Cool,4C				COMPUC
1-120	Poly	LANTHANIDES	Cool,4C				COMPUC
1-120	AmbGlass	TOTAL ORGANIC CARBON	Cool,4C				COMPUC
2-250	WM GLASS	RADS Ac,Sr,H3,GAMMA	NONE				COMPUC
2-250	WM GLASS	RADS Pu,Th,U	NONE				COMPUC
		LAST ENTRY					

255

SAMPLE ID'S RINSATE: E20006 TRIP BLANK: TBA015 FIELD BLANK: AB05005 FIELD DUPLICATE: B09102

RECORDED BY: _____ (SIGNATURE) QA CHECKED BY: _____ 7/28/94 (SIGNATURE)

SAMPLE LOG SHEET

PROJECT NAME: Mound Operational Area **PROJECT NO:** 2680 p. 256

SAMPLE ID NUMBER: BØ9ØØ3 DATE COLLECTED (MM/DD/YY): 7/19/94 TIME (HH:MM): Ø912

SAMPLING -

LOCATION CODE: MNDOA

DESCRIPTION: MOUND OPERATIONAL AREA

POINT CODE: BØ9

DESCRIPTION: OPERAIONAL AREA BORING #9

SAMPLE -

MEDIA CODE: Ø2

DESCRIPTION: Soil Subsurface (>6 Inches)

DEPTH 12.ØØ TO 2Ø.ØØ FT

FIELD OBSERVATIONS: NONE

SAMPLE TYPE:

- [X] GRAB
- [ ] TIME COMPOSITE
- [ ] QC RINSATE
- [ ] OTHER (SPECIFY)
- [ ] SPATIAL COMPOSITE
- [ ] QC TRIP BLANK
- [ ] QC FIELD BLANK

SAMPLE COLLECTED: [X] YES [ ] NO

SAP SAMPLING PROCEDURE WAS FOLLOWED: [X] YES [ ] NO FIELD CHANGE ORDER REFERENCE NO: NA

IF SAP WAS NOT FOLLOWED, SPECIFY WHAT DEVIATIONS WERE NECESSARY AND WHY (INCLUDE FIELD CHANGE ORDER REFERENCE NO.):

NA

RECORDED BY: (SIGNATURE) QA CHECKED BY: 7/28/94

256

(SIGNATURE) (SIGNATURE)

SAMPLE ID NUMBER: B09003 P. 257

CONTAINER VOLUME (ml)	CONTAINER TYPE	METHOD NAME AND NUMBER ANALYSIS	PRESERVATIVES (TYPE/VOL)	C-O-C #	AIR BILL #	CONTAINER LOT #	LABORATORY
1-120	WM Glass	CLPVOA	Cool,4C	OAC015	8219960556	SEE CONTAINER LOT # LOG	COMPUC
1-250	AmbGlass	SVOC,PEST/PCB	Cool,4C				COMPUC
1-250	AmbGlass	EXPLOSIVES	Cool,4C				COMPUC
2-250	WM Glass	ANIONS Fl,SO4,Cl,NO2/NO3	Cool,4C				COMPUC
1-250	WM Glass	METALS,Cyanide	Cool,4C				COMPUC
1-120	Poly	LANTHANIDES	Cool,4C				COMPUC
1-120	AmbGlass	TOTAL ORGANIC CARBON	Cool,4C				COMPUC
2-250	WM GLASS	RADS Ac,Sr,H3,GAMMA	NONE				COMPUC
2-250	WM GLASS	RADS Pu,Th,U	NONE				COMPUC
			LAST ENTRY				

SAMPLE ID'S RINSATE: ER0006 TRIP BLANK: TB015 FIELD BLANK: AB0005 FIELD DUPLICATE: NA

RECORDED BY: (SIGNATURE) QA CHECKED BY: (SIGNATURE) 7/28/94

257

SAMPLE LOG SHEET

PROJECT NAME: Mound Operational Area **PROJECT NO:** 2680 p. 258

SAMPLE ID NUMBER: B09004 DATE COLLECTED (MM/DD/YY): 7/19/94 TIME (HH:MM): 1907

SAMPLING -

LOCATION CODE: MNDOA

DESCRIPTION: MOUND OPERATIONAL AREA

POINT CODE: B09

DESCRIPTION: OPERAIONAL AREA BORING #9

SAMPLE -

MEDIA CODE: 02

DESCRIPTION: Soil Subsurface (>6 Inches)

DEPTH 20.00 TO 25.00 FT

SAMPLE TYPE:

- [X] GRAB
- [ ] TIME COMPOSITE
- [ ] QC RINSATE
- [ ] OTHER (SPECIFY)
- [ ] SPATIAL COMPOSITE
- [ ] QC TRIP BLANK
- [ ] QC FIELD BLANK

FIELD OBSERVATIONS: NONE

SAMPLE COLLECTED: [X] YES [ ] NO

SAP SAMPLING PROCEDURE WAS FOLLOWED: [✓] YES [ ] NO FIELD CHANGE ORDER REFERENCE NO: NA

IF SAP WAS NOT FOLLOWED, SPECIFY WHAT DEVIATIONS WERE NECESSARY AND WHY (INCLUDE FIELD CHANGE ORDER REFERENCE NO.):

NA

RECORDED BY: [signature] (SIGNATURE) QA CHECKED BY: [signature] 7/28/94

258

RECORDED BY: _____ (SIGNATURE) QA CHECKED BY: _____ (SIGNATURE)

SAMPLE ID NUMBER: B09004 P.259

CONTAINER VOLUME (ml)	CONTAINER TYPE	METHOD NAME AND NUMBER ANALYSIS	PRESERVATIVES (TYPE/VOL)	C-O-C #	AIR BILL #	CONTAINER LOT #	LABORATORY
1-120	WM Glass	CLPVOA	Cool,4C	OAC015	8219960556	SEE CONTAINER LOT # LOG	COMPUC
1-250	AmbGlass	SVOC,PEST/PCB	Cool,4C				COMPUC
1-250	AmbGlass	EXPLOSIVES	Cool,4C				COMPUC
2-250	WM Glass	ANIONS Fl,SO4,Cl,N02/N03	Cool,4C				COMPUC
1-250	WM Glass	METALS,Cyanide	Cool,4C				COMPUC
1-120	Poly	LANTHANIDES	Cool,4C				COMPUC
1-120	AmbGlass	TOTAL ORGANIC CARBON	Cool,4C				COMPUC
2-250	WM GLASS	RADS Ac,Sr,H3,GAMMA	NONE				COMPUC
2-250	WM GLASS	RADS Pu,Th,U	NONE				COMPUC
			LAST ENTRY				

SAMPLE ID'S RINSATE: ERB006 TRIP BLANK: YBA015 FIELD BLANK: AB0005 FIELD DUPLICATE: NA

RECORDED BY: _____ (SIGNATURE) QA CHECKED BY: _____ 7/28/94 (SIGNATURE)

SAMPLE LOG SHEET

PROJECT NAME: Mound Operational Area **PROJECT NO:** 2680 p. 260

SAMPLE ID NUMBER: B09005 DATE COLLECTED (MM/DD/YY): 7/19/94 TIME (HH:MM): 1057

SAMPLING -

LOCATION CODE: MNDOA

DESCRIPTION: MOUND OPERATIONAL AREA

POINT CODE: B09

DESCRIPTION: OPERAIONAL AREA BORING #9

SAMPLE -

MEDIA CODE: 02

DESCRIPTION: Soil Subsurface (>6 Inches)

DEPTH 25.00 TO 32.00 FT

FIELD OBSERVATIONS: NONE

SAMPLE TYPE:

- [X] GRAB
- [ ] TIME COMPOSITE
- [ ] QC RINSATE
- [ ] OTHER (SPECIFY)
- [ ] SPATIAL COMPOSITE
- [ ] QC TRIP BLANK
- [ ] QC FIELD BLANK

SAMPLE COLLECTED: [X] YES [ ] NO

SAP SAMPLING PROCEDURE WAS FOLLOWED: [X] YES [ ] NO FIELD CHANGE ORDER REFERENCE NO: NA

IF SAP WAS NOT FOLLOWED, SPECIFY WHAT DEVIATIONS WERE NECESSARY AND WHY (INCLUDE FIELD CHANGE ORDER REFERENCE NO.):

NA

RECORDED BY: [illegible] (SIGNATURE) QA CHECKED BY: [illegible] 7/28/94 (SIGNATURE)

260

RECORDED BY: (SIGNATURE) QA CHECKED BY: (SIGNATURE)

SAMPLE ID NUMBER: B09005 P.261

CONTAINER VOLUME (ml)	CONTAINER TYPE	METHOD NAME AND NUMBER ANALYSIS	PRESERVATIVES (TYPE/VOL)	C-O-C #	AIR BILL #	CONTAINER LOT #	LABORATORY
1-120	WM Glass	CLPVOA	Cool,4C	OAC015	8219960556	SEE CONTAINER LOT # LOG	COMPUC
1-250	AmbGlass	SVOC,PEST/PCB	Cool,4C				COMPUC
1-250	AmbGlass	EXPLOSIVES	Cool,4C				COMPUC
2-250	WM Glass	ANIONS Fl,SO4,Cl,NO2/NO3	Cool,4C				COMPUC
1-250	WM Glass	METALS,Cyanide	Cool,4C				COMPUC
1-120	Poly	LANTHANIDES	Cool,4C				COMPUC
1-120	AmbGlass	TOTAL ORGANIC CARBON	Cool,4C				COMPUC
2-250	WM GLASS	RADS Ac,Sr,H3,GAMMA	NONE				COMPUC
2-250	WM GLASS	RADS Pu,Th,U	NONE				COMPUC
			LAST ENTRY				

SAMPLE ID'S RINSATE: ER0006 TRIP BLANK: TBA015 FIELD BLANK: AB0005 FIELD DUPLICATE: NA

RECORDED BY: (SIGNATURE) QA CHECKED BY: 7/28/94 (SIGNATURE)

SAMPLE LOG SHEET

PROJECT NAME: Mound Operational Area

PROJECT NO: 2680 p. 296

SAMPLE ID NUMBER: B09102 DATE COLLECTED (MM/DD/YY): 7/19/94 TIME (HH:MM): 0831

SAMPLING -

LOCATION CODE: MNDOA

DESCRIPTION: MOUND OPERATIONAL AREA

POINT CODE: B09

DESCRIPTION: OPERATIONAL AREA BORING #9

SAMPLE -

MEDIA CODE: 01

DESCRIPTION: ~~Soil Surface (0 - 6 inches)~~ SOIL SUBSURFACE (>6 INCHES) GL 7/19/94

DEPTH ~~0.00~~ GL 7/19/94 5.00 TO ~~5.00~~ GL 7/19/94 12.00 FT

SAMPLE TYPE:

- [ ] GRAB
- [ ] SPATIAL COMPOSITE
- [ ] TIME COMPOSITE
- [ ] QC TRIP BLANK
- [ ] QC RINSATE
- [ ] QC FIELD BLANK
- [X] OTHER (SPECIFY) QC Field Duplicate

FIELD OBSERVATIONS: DUPLICATE of B09002

SAMPLE COLLECTED: [X] YES [X] NO

SAP SAMPLING PROCEDURE WAS FOLLOWED: [ ] YES [ ] NO FIELD CHANGE ORDER REFERENCE NO: NA

IF SAP WAS NOT FOLLOWED, SPECIFY WHAT DEVIATIONS WERE NECESSARY AND WHY (INCLUDE FIELD CHANGE ORDER REFERENCE NO.):

NA

RECORDED BY: [signature] QA CHECKED BY: [signature] 7/28/94

296

RECORDED BY: _____ (SIGNATURE) _____ (SIGNATURE)

SAMPLE ID NUMBER: B09102 P. 297

CONTAINER VOLUME (ml)	CONTAINER TYPE	METHOD NAME AND NUMBER ANALYSIS	PRESERVATIVES (TYPE/VOL)	C-O-C #	AIR BILL #	CONTAINER LOT #	LABORATORY
1-120	WM Glass	CLPVOA	Cool,4C	OAC015	8219960556	SEE CONTAINER LOT # LOG	COMPUC
1-250	AmbGlass	SVOC,PEST/PCB	Cool,4C				COMPUC
1-250	AmbGlass	EXPLOSIVES	Cool,4C				COMPUC
GL 7/14/94 1-250	WM Glass	ANIONS Fl,SO4,Cl,N02/N03	Cool,4C				COMPUC
1-250	WM Glass	METALS,Cyanide	Cool,4C				COMPUC
1-120	Poly	LANTHANIDES	Cool,4C				COMPUC
1-120	AmbGlass	TOTAL ORGANIC CARBON	Cool,4C				COMPUC
2-250	WM GLASS	RADS Ac,Sr,H3,GAMMA	NONE				COMPUC
2-250	WM GLASS	RADS Pu,Th,U	NONE				COMPUC
			LAST ENTRY				

297

SAMPLE ID'S RINSATE: ER0006 TRIP BLANK: TBA015 FIELD BLANK: AB0005 FIELD DUPLICATE: B09002

RECORDED BY: _____ (SIGNATURE) QA CHECKED BY: _____ 7/28/94 (SIGNATURE)

EG&G MOUND

OU5 OPS AREA

PHASE I

A7 SOIL BORING LOGBOOK

B10-B12

SOIL BORING LOG BOOK

B10 B11 B12

PROJECT TITLE: EG&G MOUND OU5 OPERATIONAL AREA PHASE 1 RI/FS FIELD INVESTIGATIONS

WORK SITE: *MOUND PLANT*
Miamisburg, Ohio
OU5 Operational Area

ACTIVITY: *Mound OU5 Operational Area Phase 1 RI/FS Field Investigations*

CONTRACT #: *BOA 52264*
TASK ORDER: *34896*

PROJECT MANAGER: *Thomas Tank*
COMPANY NAME / ADDRESS: *Science Applications International Corporation*
4031 Colonel Glenn Hwy ,Dayton, Ohio 45431
TELEPHONE NUMBERS: *(513) 429-2699*

SUPERVISORS: *OU5 Manager: Alan Spesard (513)865-3859*
SAIC Proj. Manager: Thomas Tank (513)429-2699

EMERGENCY RESPONCE: *Police / Ambulance / Fire 911 or 865-4040*

PROCEDURES: *SOP 1.1, SOP 2.2, SOP 3.1, SOP 5.1, SOP 6.1, SOP 6.3*

START DATE: 7/20/94
END DATE: 7/22/94

TABLE OF CONTENTS

B10 B11 B12

SOIL BORING I

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1

PROJECT NO: 34896

PAGE	FIELD LOG	PAGE	FIELD LOG
1	TASK TEAM LOG SHEET; B10; 7/20/94	31	BOREHOLE ABANDON. LOG; B10
2	" ; " ; "	32	NO ENTRY
3	NO ENTRY	33	KEY SHEET
4		34	NO ENTRY
5		35	NO ENTRY
6		36	SAMPLE COL SHEET; B10001
7		37	" ; "
8		38	" ; B10002
9		39	" ; "
10		40	" ; B10003
11	BOREHOLE LOG; B10	41	" ; "
12	" ; "	42	NO ENTRY
13	NO ENTRY	43	
14		44	
15		45	
16		46	
17		47	
18		48	
19		49	
20		50	
21		51	
22		52	
23		53	
24		54	
25		55	
26		56	
27	CGI MONITOR DATA; B10	57	
28	NO ENTRY	58	
29	FID FIELD DATA; B10	59	
30	NO ENTRY	60	

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B10 B11 B12

SOIL BORING
II

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA , PHASE 1

PROJECT NO: 34896

PAGE	FIELD LOG	PAGE	FIELD LOG
61	NO ENTRY	91	NO ENTRY
62		92	
63		93	
64		94	
65		95	
66		96	
67		97	
68		98	
69		99	
70		100	
71		101	
72		102	
73		103	
74		104	
75		105	
76		106	
77		107	
78		108	
79		109	TASK TEAM LOG SHEET; B11; 7/21/94
80		110	" ; " ; "
81		111	" ; " ; "
82		112	" ; " ; "
83		113	" ; " ; "
84		114	" ; " ; 7/22/94
85		115	NO ENTRY
86		116	
87		117	
88		118	
89		119	BOREHOLE LOG; B11
90		120	" ; "

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B10 B11 B12

SOIL BORING III

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1

PROJECT NO: 34896

PAGE	FIELD LOG	PAGE	FIELD LOG
121	NO ENTRY	151	NO ENTRY
122		152	
123		153	
124		154	
125		155	
126		156	
127		157	
128		158	
129		159	
130		160	
131		161	
132		162	
133	CGI MONITOR DATA; B11	163	
[illegible]	NO ENTRY	164	
135	FID FIELD DATA; B11	165	
136	NO ENTRY	166	
137	BOREHOLE ABANDON LOG; B11	167	
138	NO ENTRY	168	
139	KEY SHEET	169	
140	NO ENTRY	170	
141	NO ENTRY	171	
142	SAMPLE LOG SHEET; B11001	172	
143	" ; "	173	
144	" ; B11002	174	
145	" ; "	175	
146	" ; B11003	176	
147	" ; "	177	
[illegible]	" ; B11004	178	
149	" ; "	179	
150	NO ENTRY	180	

B10 QAd

B11 QA'd

TABLE OF CONTENTS

B10 B11 B12

SOIL BORING IV

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1

PROJECT NO: 34896

PAGE	FIELD LOG	PAGE	FIELD LOG
181	NO ENTRY	211	standard Elect. Conduct. data; B11
182	SAMPLE LOG SHEET; W11001	212	NO ENTRY
183	" ; "	213	
184	NO ENTRY	214	
185	NO ENTRY	215	TASK TEAM LOG SHEET; B12; 7/20/94
186	SAMPLE LOG SHEET; B11102	216	" ; " ; "
187	" ; "	217	NO ENTRY
188	NO ENTRY	218	
189		219	
190		220	
191		221	
192		222	
193		223	
194		224	
195		225	BOREHOLE LOG; B12
196		226	" ; "
197		227	" ; "
198		228	NO ENTRY
199		229	
200		230	
201		231	
202		232	
203		233	
204		234	
205	GROUNDWTR. QUAL SPLG. RECORD; B11	235	
206	NO ENTRY	236	
207	GROUNDWTR. QUAL. SPLG. RECORD; B11	237	
208	NO ENTRY	238	
209	ALKALINITY DATA; W11001	239	CGI MONITOR DATA; B12
210	NO ENTRY	240	NO ENTRY

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B10 B11 B12

SOIL BORING V

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1

PROJECT NO: 34896

PAGE	FIELD LOG	PAGE	FIELD LOG
241	FID FIELD DATA; B12	271	NO ENTRY
242	NO ENTRY	272	
243	BOREHOLE ABAND. LOG; B12	273	
244	NO ENTRY	274	
245	KEY SHEET	275	
246	NO ENTRY	276	
247	NO ENTRY	277	
248	SAMPLE LOG SHEET; B12001	278	
249	" ; "	279	
250	" ; B12002	280	
251	" ; "	281	
252	" ; B12003	282	
253	" ; "	283	
254	NO ENTRY	284	
255		285	
256		286	
257		287	
258		288	
259		289	
260		290	
261		291	
262		292	
263		293	
264		294	
265		295	
266		296	
267		297	
268		298	
269		299	
270		300	

B10 QAd

B11 QA'd

TABLE OF CONTENTS

B10 B11 B12

SOIL BORING

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1

PROJECT NO: 34896

PAGE	FIELD LOG	PAGE	FIELD LOG
301	NO ENTRY	331	
302		332	
303		333	
304		334	
305		335	
306		336	
307		337	
308		338	
309		339	
310		340	
311		341	
312		342	
313		343	
314		344	
315		345	
316		346	
317		347	NA-
318		348	
319		349	
320		350	
321		351	
322		352	
323	END OF BOOK	353	
324		354	
325		355	
326	NA-	356	
327		357	
328		358	
329		359	
330		360	

TASK TEAM ACTIVITY LOG SHEET

SOIL BORING B10 p. 1

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1

TASK NO.: 34896

Date (mm/dd/yy): 7/20/94 TIME: 1030 PAGE 1 OF 2

Task Team Members:

GREG LODER	SAIC	DENNIS SINK	BM
GEORGE WAHL	SAIC	DWIGHT WORK	BM

Narrative (include time and location):

1030 ON SITE TO SET UP RIG AND EXCLUSION ZONE. LOCATION HAS BEEN MOVED TO THE NORTH TO AVOID LOCK OUT/TAG OUT ON OVERHEAD LINES

1100 BREAK FOR LUNCH

1220 BACK ON SITE JOYCE HERE W/ PERMIT

1230 HENRY ON SITE

1240 BEGIN DRILLING

1245 TAKE B10001 WITH SPOON & BOWL OVA = Ø LEL = Ø

1253 PULL SPOON FROM 2 - 4 OVA = Ø LEL = Ø

1304 " " " 4 - 6 OVA = Ø LEL = Ø BEGIN B10002

1312 " " " 6 - 8 OVA = Ø LEL = Ø

1325 " " " 8 - 10 OVA = Ø LEL = Ø

1340 " " " 10 - 12 OVA = Ø LEL = Ø BEGIN B10003

1351 " " " 12 - 14 OVA = Ø LEL = Ø

ENCOUNTERED WATER @ 12.Ø' AND BEDROCK @ 13.5'

1410 BEGIN GROUTING SOIL CUTTINGS ARE SPREAD ON THE GROUND AROUND THE BOREHOLE BECAUSE WE ARE IN THE GRASS AND WE ~~DIDN'T~~ CC 7/26/94 DIDN'T RECORD ANY SIGNIFICANT INSTRUMENT READINGS AS PER INSTRUCTIONS FROM KEITH MACMAHAN

Daily Weather Conditions: A.M. N/A

P.M. 82°F SUNNY HUMID

Recorded By [signature] QA Checked By [signature] 7/26/94

TASK TEAM ACTIVITY LOG SHEET

SOIL BORING

B10 PZ

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1

TASK NO.: 34896

Date (mm/dd/yy): 7/20/94 TIME : NA PAGE 2 OF 2

Task Team Members:

SEE PAGE 1

Narrative (include time and location):

1433 FINISH GROUTING MOVE EXCLUSION ZONE TO B11

TWA FOR AIR MONITORING = 0.26

1440 LEAVE SITE

LAST ENTRY

Daily Weather Conditions: A.M. NA

P.M. 95°F SUNNY HUMID

Recorded By [signature] QA Checked By [signature] 7/28/94

BOREHOLE LOG (SOIL)

SOIL BORING

B10 p.11

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1

PROJECT NO: 34896

FACILITY CODE: MN24

LOCATION ID: B10

COORDINATES (FT):

NORTH NA EAST NA

GROUND ELEVATION (FT MSL)

LOCATION TYPE: BH

COMMENTS: NONE

DRILLER CODE: BOWS

COMPLETION DATE 7/20/1994

DIAMETER (IN): 8

DEPTH (FTFD): 13.5

CONSTRUCTION METHOD: 3

ACCEPTANCE CODE: A

GROUNDWATER LEVELS

DATE	TIME	DEPTH (FT)
7/20/94	1351	12.0

NOTE: NOT ENOUGH WATER FOR SAMPLING

LOCATION DESCRIPTION

IN GRASS AT EDGE OF PARKING LOT ACROSS FROM FIRE STATION

LITHOLOGIC LOG

LOGGER CODE: SAK

DEPTH (FT)	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE RETAINED	SAMPLE METHOD	SAMPLE ID	BLOW COUNT (PER 6 IN)	N VALUE	USCS	VISUAL DESCRIPTIONS
	0-2	FULL	FULL	O	B10001	NA	NA	SM	SILT SOME FINE TO VERY
									COARSE SAND AND GRAVEL
									UP TO 30 mm POORLY SORTED
									DRY LOOSE ANGULAR TO
									SUB ROUNDED 10YR 4/3 BROWN
	2-4	0.8	0	U	B10002	17/50/75/34	67	SM	2-3 SAME AS ABOVE
								CL	3-4 CLAY TRACE MEDIUM
									SAND AND GRAVEL, DRY FIRM
									NONPLASTIC LAMINATED
									2.5 Y 5/3 LIGHT OLIVE BROWN
									PROMINENT MOTTLES 5BG 5/1

ACCEPTANCE CODES: A - ACCEPTABLE, R - RECONNAISSANCE, U - UNACCEPTABLE, N - NOT DETERMINED

CONSTRUCTION METHODS:

A - AIR ROTARY
B - BORED OR AUGERED
C - CABLE - TOOL
D - DRIVE
H - HYDRAULIC - ROTORY
J - JETTED
P - AIR - PERCUSSION
R - REVERSE ROTERY
T - TRENCHING
V - DRIVEN
W - DRIVE AND WASH
Z - OTHER (SPECIFY)

SAMPLE METHODS:

A - AUGER CUTTINGS
S - 2" O.D. 1.38" I.D. DRIVE SAMPLES
U - 3" O.D. 2.42" I.D. TUBE SAMPLES
T - 3" O.D. THIN-WALLED SHELBY TUBE
O - OTHER (SPECIFY)

COMPLETE BOLDED DATA FOR ENTRY INTO TIMS

7/20/94 FORM COMPLETED BY / DATE

7/28/94 TECHNICAL REVIEWER / DATE

BOREHOLE LOG (SOIL)

SOIL BOR

B10 P.12

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1

PROJECT NO: 3

FACILITY CODE: MND21

DRILLER CODE: BOWS

LOCATION ID: B10

COMPLETION DATE 7/20/1994

LITHOLOGIC LOG

DEPTH (FT)	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE RETAINED	SAMPLE METHOD	SAMPLE ID	BLOW COUNT (PER 6 IN)	N VALUE	USCS	VISUAL DESCRIPTIONS
	4-6	1.0	1.0	U	B10002	20/28/33/38	71	CL	SAME AS ABOVE
	6-8	0	0	U	NA	100/5	100	NA	NO RECOVERY COBBLE
	8-10	1.2	1.2	U	B10002	14/17/21/30	51	CL	SAME AS ABOVE
	10-12	0.9	0.9	U	B10003	16/28/52/37	89	CL	10.-11.25 SAME AS ABOVE
									AND ~~ARE~~ VERY FIRM W/ WEATHERED
									2-27-99 SHALE FRAGMENTS
11.25								GC	11.25-12 CLAY, FINE TO
									MED SAND, AND GRAVEL
									MOIST POORLY SORTED
									ANGULAR TO SUBANGULAR
									PLASTIC WITH HIGHLY
									WEATHERED LIMESTONE
									FRAGMENTS VARIAGATED
	12-14	1.2	1.2	U	B10003	30/47/100/5	147	GC	12-12.75 SAME AS ABOVE
12.75								ROCK	12.75-13.5 HIGHLY
									WEATHERED SHALE SOFT
									GRADED TO FIRM HORIZONTAL
									FRACTURES AND LAYERS
12.8	WATER								
13.5	BEDROCK								
						LAST ENTRY			

COMPLETE BOLDED DATA FOR ENTRY INTO TIMS

7/20/94 — FORM COMPLETED BY / DATE

~~[illegible]~~ 7/28/94 — TECHNICAL REVIEWER

COMBUSTIBLE GAS INDICATOR (CGI) MONITORING DATA — SOIL BORING

B10 P.27

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 — PROJECT NO: 34896

FACILITY CODE: MND21 — LOG DATE: 7/20/94

LOGGER CODE: SAIC — FIELD REP: C. LOPER

CGI MANUFACTURER: ~~MSA~~ Industrial Scientific — CGI MODEL NO. ~~251~~ MX251

SERIAL NO.: 7470 — CALIBRATION DATE/TIME: 7/20/94 0630

ACCEPTANCE CODE: A — BATTERY CONDITION (GOOD)

CALIBRATION GAS (%LEL) TYPE PENTANE CONCENTRATION 35 % LEL — CYLINDER SERIAL NO RR-34825

CALIBRATION GAS (PPM) TYPE NA CONCENTRATION NA PPM — CYLINDER SERIAL NO NA

COMMENTS: NONE

LOCATION ID OR DESCRIPTION	COORDINATES FT NORTH	COORDINATES FT EAST	MONITORING TIME (HH:MM)	LOCATION TYPE	% LOWER EXPLOSIVE LIMIT	PPM	% OXYGEN
310	NA	NA	1245	BH	Ø	NA	NR
			1253		Ø		
			1304		Ø		
			1312		Ø		
			1325		Ø		
			1340		Ø		
			1351		Ø		
			LAST ENTRY				

ACCEPTANCE CODES: A - ACCEPTABLE, R - RECONNAISSANCE, U - UNACCEPTABLE, N - NOT DETERMINED

LOCATION TYPES: BH - BOREHOLE SL - SURFACE LOCATION TP - TEST PIT WL - WELL

*COMPLETE BOLDED DATA FOR ENTRY INTO TIMS

7/20/94 FORM COMPLETED BY / DATE — 7/28/94 TECHNICAL REVIEWER / DATE

FLAME IONIZATION DETECTOR FIELD DATA — SOIL BORING B10 p. 29

PROJECT NAME: EG&G MOUND OU5 OPERAIONAL AREA, PHASE 1 — PROJECT NO: 34896

FACILITY CODE: MND21 — LOG DATE: 7/20/94

LOCATION ID: B10 — LOCATION TYPE: BH, BZ

LOGGER CODE: SAIC — FIELD REP: G. LODER

FLAME IONIZATION DETECTOR INSTRUMENT:

MANUFACTURER: FOXBORO — MODEL NO.: 128

SERIAL NO.: 2241

DATE/TIME CALIBRATION 7/20/94 0700 — ACCEPTANCE CODE: A

CALIBRATION GASES			
TYPE/CYLINDER ID NO.		CONCENTRATION (PPM)	
1	METHANE / 32875	1	100
2	NA	2	NA

COMMENTS NONE

TIME (HH:MM)	SAMPLE ID	OBSERVED READING (ppm)					DRILLING DEPTH (ft)	COMMENTS
		DH	HS	BZ	D	OT		
745	B10001	0	NA	NR	NA	NA	2	NONE
1253	NA	0					4	
1304	B10002	0					6	
1312	B10002	0					8	
1325	B10002	0					10	
1340	B10003	0					12	
1351	B10003	0					14	
		LAST ENTRY						

ACCEPTANCE CODES: A - ACCEPTABLE, R - RECONNAISSANCE, U - UNACCEPTABLE, N - NOT DETERMINED

LOCATION TYPES:
BH - BOREHOLES
TP - TEST PIT
SS - SOIL SAMPLE
SB - SAMPLE BOTTLE
L - SURFACE LOCATION
WL - WELL
OT - OTHER (EXPLAIN)

OBSERVED READING:
DH - DOWNHOLE
HS - HEADSPACE
BZ - BREATHING ZONE
D - DURING DRILLING (BZ)
OT - OTHER

COMPLETE BOLDED DATA FOR ENTRY INTO TIMS

FORM COMPLETED BY / DATE: 7/20/94

TECHNICAL REVIEWER / DATE: 7/28/94

BOREHOLE OR WELL PLUGGING / ABANDONMENT

SOIL BORING

B10 p. 31

PROJECT: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1

PROJECT NO.: 34896

SITE ID NUMBER: B10 DATE PLUGGED 7/28/94

SITE COORDINATES: N: NA E: NA DEPTH BLS (ft) 13.5

TYPE OF CASING: NA

CASING DIAMETER (ID) (in.) NA GROUND ELEVATION (ft msl) NA

SCREENED ELEVATION (ft msl) NA

GEOLOGIC MATERIAL AT SCREEN NA

AMOUNT OF CASING REMOVED (ft) NA

PLUGGING MATERIAL BENTONITE GROUT

APPROX. VOLUME OF PLUGGING MATERIAL (cu ft.) 4.7

PLUGGING METHOD TREMIED THROUGH AUGERS

REMARKS 3 - 50 lb BAGS CEMENT AND 1/2-50 lb BAG BENTONITE IN 55 GALLON DRUM OF WATER IS ONE 7.4 ft³ BATCH GROUT

LAST ENTRY

RECORDED BY: (Signature) QA CHECKED BY: 7/28/94 (Signature)

B11 QA'd

SOLID MATRICES

SOIL
- [01] Surface (0-6 inches)
- [02] Subsurface (>6 inches)
- [09] Other

SEDIMENT / SLUDGES
- [11] Lake/Pond
- [12] River/Stream
- [13] Impoundment/Pond
- [14] Drum/Tank
- [19] Other

AIR SAMPLE
- [21] Filter
- [22] Sorbent
- [23] Sweepings/Fugitive Dust
- [24] Gases
- [29] Other

BIOLOGICAL/TERRESTRIAL
- [31] Biota
- [39] Other

GEO-TECHNICAL
- [41] Retained on #40
- [42] Retained on #200
- [43] Passed through #200
- [49] Other

LIQUID MATRICES

SURFACE WATER
- [51] Lake/Pond
- [52] River/Stream
- [53] Impoundment/Pond
- [54] Discharge
- [55] Spring/Seep
- [59] Other

GROUND WATER
- [61] Abandoned Well
- [62] Extraction Well
- [63] Injection Well
- [64] Irrigation Well
- [65] Lysimeter
- [66] Monitoring Well
- [67] Observation Well
- [68] Piezometer
- [69] Other
- [6A] Public Water Supply
- [6B] Purge Well
- [6C] Test Well
- [6D] Vapor Well
- [6E] Leachate Well

CONTAINERIZED

SEALED	UNSEALED
[71] Drum/Tank	[81] Drum/Tank
[79] Other	[89] Other

SAMPLE LOG SHEET

PROJECT NAME: Mound Operational Area **PROJECT NO:** 2680 P. 36

SAMPLE ID NUMBER: B10001 DATE COLLECTED (MM/DD/YY): 7/20/94 TIME (HH:MM): 12.45

SAMPLING -

LOCATION CODE: MNDOA

DESCRIPTION: MOUND OPERATIONAL AREA

POINT CODE: B10

DESCRIPTION: OPERAIONAL AREA BORING #10

FIELD OBSERVATIONS: NONE

SAMPLE -

MEDIA CODE: 01

DESCRIPTION: Soil Surface (0 - 6 Inches)

DEPTH 0.00 TO ~~5.00~~ 2.00 FT

AL 7/20/94

36

SAMPLE TYPE:

- [X] GRAB
- [ ] SPATIAL COMPOSITE
- [ ] TIME COMPOSITE
- [ ] QC TRIP BLANK
- [ ] QC RINSATE
- [ ] QC FIELD BLANK
- [ ] OTHER (SPECIFY)

SAMPLE COLLECTED: [X] YES [ ] NO

SAP SAMPLING PROCEDURE WAS FOLLOWED: [X] YES [ ] NO FIELD CHANGE ORDER REFERENCE NO: NA

IF SAP WAS NOT FOLLOWED, SPECIFY WHAT DEVIATIONS WERE NECESSARY AND WHY (INCLUDE FIELD CHANGE ORDER REFERENCE NO.):

NA

RECORDED BY: [signature] (SIGNATURE) QA CHECKED BY: [signature] 7-28-94 (SIGNATURE)

RECORDED BY: [illegible] (SIGNATURE) QA CHECKED BY: [illegible] (SIGNATURE)

SAMPLE LOG SHEET

SAMPLE ID NUMBER: B10001

p. 37

CONTAINER VOLUME (ml)	CONTAINER TYPE	METHOD NAME AND NUMBER ANALYSIS	PRESERVATIVES (TYPE/VOL)	C-O-C #	AIR BILL #	CONTAINER LOT #	LABORATORY
1-120	WM Glass	CLPVOA	Cool,4C	OAC016	8219960626	SEE CONTAINER LOT # LOG	COMPUC
1-250	AmbGlass	SVOC,PEST/PCB	Cool,4C				COMPUC
1-250	AmbGlass	EXPLOSIVES	Cool,4C				COMPUC
2-250	WM Glass	ANIONS Fl,SO4,Cl,N02/N03	Cool,4C				COMPUC
1-250	WM Glass	METALS,Cyanide	Cool,4C				COMPUC
1-120	Poly	LANTHANIDES	Cool,4C				COMPUC
1-120	AmbGlass	TOTAL ORGANIC CARBON	Cool,4C				COMPUC
2-250	WM GLASS	RADS Ac,Sr,H3,GAMMA	NONE				COMPUC
2-250	WM GLASS	RADS Pu,Th,U	NONE				COMPUC
			LAST ENTRY				

GC 7/20/94

37

SAMPLE ID'S RINSATE: ER0009 TRIP BLANK: TBA016 FIELD BLANK: AB0005 FIELD DUPLICATE: NA

RECORDED BY: [illegible] (SIGNATURE) QA CHECKED BY: [illegible] 7/28/94 (SIGNATURE)

SAMPLE LOG SHEET

PROJECT NAME: Mound Operational Area **PROJECT NO:** 2680 p. 38

SAMPLE ID NUMBER: B10002 DATE COLLECTED (MM/DD/YY): 7/20/94 TIME (HH:MM): 1304

SAMPLING -

LOCATION CODE: MNDOA

DESCRIPTION: MOUND OPERATIONAL AREA

POINT CODE: B10

DESCRIPTION: OPERAIONAL AREA BORING #10

SAMPLE -

MEDIA CODE: 02

DESCRIPTION: Soil Subsurface (> 6 Inches)

DEPTH 5.00 TO 10.00 FT

FIELD OBSERVATIONS: NONE

38

SAMPLE TYPE:

- [X] GRAB
- [ ] TIME COMPOSITE
- [ ] QC RINSATE
- [ ] OTHER (SPECIFY)
- [ ] SPATIAL COMPOSITE
- [ ] QC TRIP BLANK
- [ ] QC FIELD BLANK

SAMPLE COLLECTED: [X] YES [ ] NO

SAP SAMPLING PROCEDURE WAS FOLLOWED: [X] YES [ ] NO FIELD CHANGE ORDER REFERENCE NO: NA

IF SAP WAS NOT FOLLOWED, SPECIFY WHAT DEVIATIONS WERE NECESSARY AND WHY (INCLUDE FIELD CHANGE ORDER REFERENCE NO.):

NA

RECORDED BY: [signature] (SIGNATURE) QA CHECKED BY: [signature] 7-28-94

RECORDED BY: _____ (SIGNATURE) QA CHECKED BY: _____ (SIGNATURE)

SAMPLE LOG SHEET

SAMPLE ID NUMBER: B10002 p. 39

CONTAINER VOLUME (ml)	CONTAINER TYPE	METHOD NAME AND NUMBER ANALYSIS	PRESERVATIVES (TYPE/VOL)	C-O-C #	AIR BILL #	CONTAINER LOT #	LABORATORY
1-120	WM Glass	CLPVOA	Cool,4C	0AC016	8219960626	SEE CONTAINER LOT # LOG	COMPUC
1-250	AmbGlass	SVOC,PEST/PCB	Cool,4C				COMPUC
1-250	AmbGlass	EXPLOSIVES	Cool,4C				COMPUC
1-250	WM Glass	ANIONS Fl,SO4,Cl,N02/N03	Cool,4C				COMPUC
1-250	WM Glass	METALS,Cyanide	Cool,4C				COMPUC
1-120	Poly	LANTHANIDES	Cool,4C				COMPUC
1-120	AmbGlass	TOTAL ORGANIC CARBON	Cool,4C				COMPUC
2-250	WM GLASS	RADS Ac,Sr,H3,GAMMA	NONE				COMPUC
2-250	WM GLASS	RADS Pu,Th,U	NONE				COMPUC
			LAST ENTRY				

SAMPLE ID'S RINSATE: ER0006 TRIP BLANK: TBA016 FIELD BLANK: AB0005 FIELD DUPLICATE: NA

RECORDED BY: _____ (SIGNATURE) QA CHECKED BY: _____ 7/28/94 (SIGNATURE)

SAMPLE LOG SHEET

PROJECT NAME: Mound Operational Area **PROJECT NO:** 2680 P. 40

SAMPLE ID NUMBER: B10003 DATE COLLECTED (MM/DD/YY): 7/20/94 TIME (HH:MM): 1340

SAMPLING -

LOCATION CODE: MNDOA

DESCRIPTION: MOUND OPERATIONAL AREA

POINT CODE: B10

DESCRIPTION: OPERAIONAL AREA BORING #10

SAMPLE -

MEDIA CODE: 02

DESCRIPTION: Soil Subsurface (> 6 Inches)

DEPTH 10.00 TO 13.50 FT

FIELD OBSERVATIONS: NONE

40

SAMPLE TYPE:

- [X] GRAB
- [ ] TIME COMPOSITE
- [ ] QC RINSATE
- [ ] OTHER (SPECIFY)
- [ ] SPATIAL COMPOSITE
- [ ] QC TRIP BLANK
- [ ] QC FIELD BLANK

SAMPLE COLLECTED: [X] YES [ ] NO

SAP SAMPLING PROCEDURE WAS FOLLOWED: [X] YES [ ] NO FIELD CHANGE ORDER REFERENCE NO: NA

IF SAP WAS NOT FOLLOWED, SPECIFY WHAT DEVIATIONS WERE NECESSARY AND WHY (INCLUDE FIELD CHANGE ORDER REFERENCE NO.):

NA

RECORDED BY: (SIGNATURE) QA CHECKED BY: (SIGNATURE) 7/28/94

RECORDED BY: _____ (SIGNATURE) QA CHECKED BY: _____ (SIGNATURE)

SAMPLE LOG SHEET

SAMPLE ID NUMBER: B10003

P.41

CONTAINER VOLUME (ml)	CONTAINER TYPE	METHOD NAME AND NUMBER ANALYSIS	PRESERVATIVES (TYPE/VOL)	C-O-C #	AIR BILL #	CONTAINER LOT #	LABORATORY
1-120	WM Glass	CLPVOA	Cool,4C	0AC016	8219960626		COMPUC
1-250	AmbGlass	SVOC,PEST/PCB	Cool,4C				COMPUC
1-250	AmbGlass	EXPLOSIVES	Cool,4C				COMPUC
GC 7/20/94 1-250	WM Glass	ANIONS Fl,SO4,Cl,N02/N03	Cool,4C				COMPUC
1-250	WM Glass	METALS,Cyanide	Cool,4C				COMPUC
1-120	Poly	LANTHANIDES	Cool,4C				COMPUC
1-120	AmbGlass	TOTAL ORGANIC CARBON	Cool,4C				COMPUC
2-250	WM GLASS	RADS Ac,Sr,H3,GAMMA	NONE				COMPUC
2-250	WM GLASS	RADS Pu,Th,U	NONE	Do	Do		COMPUC
			LAST ENTRY				

41

SAMPLE ID'S RINSATE: ER0008 TRIP BLANK: TBA016 FIELD BLANK: AB0005 FIELD DUPLICATE: NA

RECORDED BY: _____ (SIGNATURE) QA CHECKED BY: _____ 7/28/94 (SIGNATURE)

TASK TEAM ACTIVITY LOG SHEET

SOIL BORING B11 P-109

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1

TASK NO.: 34896

Date (mm/dd/yy): 7/21/94 TIME: 0730 PAGE 1 OF 5

Task Team Members:

GREG LODER	SAIC	DENNIS SINK	BM
GEORGE WAHL	SAIC	DWIGHT WORK	BM

Narrative (include time and location):

0730 ON SITE DRILLERS HERE @ 0700. JOYCE HERE WITH PERMIT

0750 HENRY ON SITE

0755 BEGIN DRILLING

0800 TAKE B11001 WITH BOWL AND SPOON OVA=0 LEL=0

0816 TAKE SPOON FROM 2-4 OVA = 90 BH, 0 BZ LEL=0

0820 TAKE B11002 AND B11102 OVA = 7000 BH LEL=0

FROM 4-6' OVA = 0 BZ

0828 PULL SPOON FROM ~~4~~ 6-8' OVA = >10000 BH LEL= 0

OVA = 0 BZ

OVA = >1000 BH w/ METHANE TIP

0837 PULL SPOON FROM 8-10 OVA = >1000 BH LEL= 0

FINISH B11002 AND B11102 OVA = 0 BZ

0849 PULL SPOON FROM 10-12 OVA = 70 PPM BH LEL=0

BEGIN B11003 OVA = 0 PPM BZ

0859 PULL SPOON FROM 12-14 OVA = 40 PPM ~~BZ~~ BH LEL= 0

0914 " " " 14-16 OVA = 120 PPM BH LEL= 0

FINISH B11003 BEGIN B11004 OVA = 0 BZ

0928 PULL SPOON FROM 16-18 OVA = 45 PPM BH LEL=0

Daily Weather Conditions: A.M. 75°F HAZY HUMID

P.M. NA

Recorded By [signature] QA Checked By [signature] 7/26/94

109

B12 OVA

TASK TEAM ACTIVITY LOG SHEET

SOIL BORING B11 p.110

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1

TASK NO.: 34896

Date (mm/dd/yy): 7/21/94 TIME: NA PAGE 2 OF 5

Task Team Members:

SEE PAGE 109

Narrative (include time and location):

0945 PULL SPOON FROM 18 - 20' OVA = 10 ppm LEL = 0
1000 " " " 20-22 OVA = 8 ppm LEL = 0
BEDROCK @ 20.5 WATER @ 18.5
1010 WATER HAS COME UP IN HOLE TO ABOUT 10'
NEED TO SET UP FOR WATER SAMPLE
LEAVE SITE TNA FOR AIR MONITORING = 0.20
1100 BACK ON SITE WATER @ 10.5'
1110 BEGIN BAILING
1123 pH = 7.33 WATER EXTREMELY CLOUDY
TEMP = 22.3
COND = 121 @ 2 GALS PURGED
1126 WATER @ 11.5 @ " " "
35 pH = 8.02
TEMP = 22.2
COND = 120 @ 4 GALS
1138 WATER @ 12' @ 5 GALS
1143 " " 12.3' @ 6 GALS
1146 pH = 8.21 COND = 120
TEMP = 21.1 @ 7 GALS

Daily Weather Conditions: A.M. 80°F HUMID SUNNY

P.M. NA

Recorded By [signature] QA Checked By [signature] 7/26/94

TASK TEAM ACTIVITY LOG SHEET

SOIL BORING B11 P.111

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1

TASK NO.: 34896

Date (mm/dd/yy): 7/21/94 TIME: NA PAGE 3 OF 5

Task Team Members:

SEE PAGE 109

Narrative (include time and location):

150 WATER @ 12.5 @ 8 GALS THIS CONCURS WITH B10 @ SAME ELEVATION 50 TO THE NORTH THIS WILL BE OUR STATIC WATER LEVEL USED TO CALCULATE PURGE VOLUME

158 BORE VOLUME (PAGE 207) = ~~20.4~~ 1.3 x 3 = PURGE VOLUME

JMD 8/12/94

~~62.5~~ = PURGE VOLUME 3.9

8/12/94

1216 bailer #52

pH 8.26

Temp = 19.9

Cond = ~~1.19~~ 119 GW 7/21/94

water level = 13 feet

1254 pH = 8.34 WATER @ 15.6' CLEARING UP A LITTLE

TEMP = 17.3

COND = 117 @ 25 GALS

1337 Water @ 16.4 Bailer #152

pH 8.26

Temp 16.4

Cond = 116

Note water just slightly cloudy

Daily Weather Conditions: A.M. NA

P.M. 90°F OVERCAST HUMID

Recorded By [signature] QA Checked By [signature] 7/21/94

TASK TEAM ACTIVITY LOG SHEET

SOIL BORING
B11 P.112
TASK NO.: 34896

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1

Date (mm/dd/yy): 7/21/94 TIME: NA PAGE 4 OF 5

Task Team Members:
See Page 109

Narrative (include time and location):

1402 Water @ 16.5 Feet Bat GW 7/21/94
pH = 7.70 *
Temp = 16.7°C
Cond = 115 @ 47 gal purged 188 bails

1413
pH = 8.28
Temp = 17.4
COND = 113 @ 49 gal purged 196 bails

1418 pH = 8.11
TEMP = 15.7
COND = 115 @ 51 GALS

1424 pH = 7.96
TEMP = 15.7 @ 52 GALS
COND = 115
1429 pH = 7.97
TEMP = 15.7 @ 55 GALS
COND = 116 WATER @ 16.7'

Daily Weather Conditions: A.M. NA
P.M. 90°F OVERCAST HUMID

Recorded By [signature] QA Checked By [signature] 7/26/94

TASK TEAM ACTIVITY LOG SHEET

SOIL BORING
B11 P-113
TASK NO.: 34896

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1

Date (mm/dd/yy): ~~SEE PAGE~~ @ 7/21/94 TIME: NA PAGE 5 OF 5

Task Team Members:

SEE PAGE 109

Narrative (include time and location):

1434 pH = 7.97
COND = 115 @ 5C CALS
TEMP = 15.6
1439 READINGS STABLE BEGIN SAMPLING W11001
1507 FINISH SAMPLING
pH = 8.10 DO = 5.0
COND = 115 REDOX = -59.9
TEMP = 16.3 WATER @ 14.1
1520 DRILLERS WERE SENT TO LUNCH @ 1100 AND RETURNED @ 1220 ~~THEY~~ THEY WERE THEN TOLD TO GO HOME BECAUSE OF LENGTH OF TIME WATER SAMPLING AL 7/21/94
1525 LEAVE SITE

LAST ENTRY

Daily Weather Conditions: A.M. NA
P.M. 90°F OVERCAST HUMID

Recorded By [signature] QA Checked By [signature] 7/26/94

TASK TEAM ACTIVITY LOG SHEET

SOIL BORING B11 P.114

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1

TASK NO.: 34896

Date (mm/dd/yy): 7/22/94 TIME: 0700 PAGE 1 OF 1

Task Team Members:

GREG LODER	SAIC	DENNIS SINK	BM
GEORGE WAHL	SAIC	DWIGHT WORK	BM

Narrative (include time and location):

0700 ARRIVE AT TRAILERS DRILLERS INSTRUCTED TO GROUT B11 WHICH WE COMPLETED WATER SAMPLING AT END OF DAY YESTERDAY

0740 FINISH GROUTING LEAVE SITE

LAST ENTRY

VERIFIED

Daily Weather Conditions: A.M. 70°F OVERCAST

P.M. NA

Recorded By [signature] QA Checked By [signature] 7/26/94

BOREHOLE LOG (SOIL)

SOIL BORING

B11 p. 119

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1

PROJECT NO: 34896

Page 1 of 2

ILL CODE: MND21

ATION ID: B11

RDINATES (FT):

NORTH NA EAST NA

UND ELEVATION (FT MSL)

ATION TYPE: BH

IMENTS: NONE

DRILLER CODE: BOWS

COMPLETION DATE 7/21/1994

DIAMETER (IN): 8

DEPTH (FTFD): 28.5

CONSTRUCTION METHOD: B

ACCEPTANCE CODE: A

GROUNDWATER LEVELS

DATE	TIME	DEPTH (FT)
7/21/94	1000	18.5
7/21/94	1100	10.5
7/21/94	1150	12.5
7/21/94	1507	14.1

LOCATION DESCRIPTION

SOUTHERN TIP OF AREA 7 PARKING LOT

LITHOLOGIC LOG

LOGGER CODE: SAIC

TH (FT)	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE RETAINED	SAMPLE METHOD	SAMPLE ID	BLOW COUNT (PER 6 IN)	N VALUE	USCS	VISUAL DESCRIPTIONS
0	0-2	FULL	FULL	O	B11001	NA	NA	SM	SILT SOME CLAY TRACE
									MEDIUM SAND AND GRAVEL
									POORLY SORTED ANGULAR
									UP TO 25 mm DAMP PLASTIC
									10 YR 3/1 VERY DARK GRAY
					7/21/94				
2	2-4	1.2	1.2	U	~~B11002~~	7/9/20/15	35	CL	CLAY TRACE FINE TO COARSE
					B11002 7/21/94				SAND AND GRAVEL POORLY
									SORTED UP TO 30 mm MOIST
									SOFT PLASTIC 10YR 3/1
									VERY DARK GRAY

ACCEPTANCE CODES: A - ACCEPTABLE, R - RECONNAISSANCE, U - UNACCEPTABLE, N - NOT DETERMINED

NSTRUCTION METHODS:

NR ROTARY
ORED OR AUGERED
CABLE - TOOL
OU
JLIC - ROTORY
ETED

P - AIR - PERCUSSION
R - REVERSE ROTERY
T - TRENCHING
V - DRIVEN
W - DRIVE AND WASH
Z - OTHER (SPECIFY)

SAMPLE METHODS:

A - AUGER CUTTINGS
S - 2" O.D. 1.38" I.D. DRIVE SAMPLES
U - 3" O.D. 2.42" I.D. TUBE SAMPLES
T - 3" O.D. THIN-WALLED SHELBY TUBE
O - OTHER (SPECIFY)

MPLETE BOLDED DATA FOR ENTRY INTO TIMS

7/21/94 FORM COMPLETED BY / DATE

7/28/94 TECHNICAL REVIEWER / DATE

BOREHOLE LOG (SOIL)

SOIL BO

B11 P.20

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1

PROJECT NO.

FACILITY CODE: MND21

DRILLER CODE: BOWS

LOCATION ID: B11

COMPLETION DATE 7/21/19 94

LITHOLOGIC LOG

DEPTH (FT)	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE RETAINED	SAMPLE METHOD	SAMPLE ID	BLOW COUNT (PER 6 IN)	N VALUE	USCS	VISUAL DESCRIPTIONS
	4-6	1.6	1.6	U	B11002	8/7/13/10	23	CL	SAME AS ABOVE
	SECOND SPOON				B11002				
	6-8	1.7	1.7	U	"	17/30/39/22	61	CL	6-7 SAME AS ABOVE
7								CL	7-8 CLAY SOME SILT
									TRACE FINE SAND DRY
									NON PLASTIC FIRM
									5Y 6/3 PALE OLIVE
	8-10	1.4	1.4	U	"	35/20/38/60	98	CL	SAME AS ABOVE
	10-12	0.9	0.9	U	B11003	22/39/38/38	116	CL	10-11 SAME AS ABOVE
11								CL	11-12 CLAY SOME SILT
									DRY VERY FIRM NONPLASTIC
									LAMINATED 5Y 6/2 LIGHT
									OLIVE GRAY
	12-14	1.3	1.3	U	B11003	46/20/36/68	114	CL	SAME AS ABOVE
	14-16	1.6	1.6	U	B11004	17/50/40/32	72	CL	SAME AS ABOVE
	16-18	0	0	U	NA	100/0	100	NA	NO RECOVERY COBBLE
	18-20	1.5	1.5	U	B11004	39/26/25/49	74	CL	18-18.5 SAME AS ABOVE
18.5								CL	18.5-20 CLAY AND WEAT
									SHALE FIRM WET PLASTIC
									TRACE COBBLES LIMESTONE
									SOFT SHALE BEDROCK IN TIP
18.5	WATER								5 BG 5/1 GREENISH GRAY
20.5	BEDROCK								WATER @ 18.5

COMPLETE BOLDED DATA FOR ENTRY INTO TIMS

7/21/94 FORM COMPLETED BY / DATE

7/28/94 TECHNICAL REVIEWER

COMBUSTIBLE GAS INDICATOR (CGI) MONITORING DATA — SOIL BORING

B11 P.133

OJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 — PROJECT NO: 34896

' CODE: MND21 — LOG DATE: 7/21/94

GER CODE: SAIC — FIELD REP: GLODER

MANUFACTURER: INDUSTRIAL SCIENTIFIC — CGI MODEL NO.: MX 251

IAL NO.: 7470 — CALIBRATION DATE/TIME: 0700 / 7/21/94

EPTANCE CODE: A — BATTERY CONDITION GOOD

IBRATION
; (%LEL)
E PENTANE CONCENTRATION 35 % LEL — CYLINDER SERIAL NO RR-34825

IBRATION
; (PPM)
E NA CONCENTRATION NA PPM — CYLINDER SERIAL NO NA

MMENTS: NONE

CATION D OR RIPTION	COORDINATES FT NORTH	COORDINATES FT EAST	MONITORING TIME (HH:MM)	LOCATION TYPE	% LOWER EXPLOSIVE LIMIT	PPM	% OXYGEN
	NA	NA	0800	BH	0	NA	21
			0810		0		21
			0820		0		21
			0828		0		21
			0837		0		21
			0849		0		21
			0859		0		21
			GL 7/21/94 ~~0814~~ 0914		0		21
			0928		0		21
			0945		0		21
			1000		0		21
			LAST ENTRY				

ACCEPTANCE CODES: A - ACCEPTABLE, R - RECONNAISSANCE, U - UNACCEPTABLE, N - NOT DETERMINED

TYPES: BH - BOREHOLE SL - SURFACE LOCATION TP - TEST PIT WL - WELL

TE BOLDED DATA FOR ENTRY INTO TIMS

7/21/94 FORM COMPLETED BY / DATE

7/26/94 TECHNICAL REVIEWER / DATE

B12 Qad

FLAME IONIZATION DETECTOR FIELD DATA

SOIL BORING B11 P-135

IECT NAME: EG&G MOUND OU5 OPERAIONAL AREA, PHASE 1 PROJECT NO: 34896

: CODE: MND21 LOG DATE: 7/21/94

TION ID B11 LOCATION TYPE: BH BZ

ER CODE: SAIC FIELD REP: GLODER

E IONIZATION DETECTOR INSTRUMENT:

MANUFACTURER: FOXBORO MODEL NO.: 128 GC

SERIAL NO.: 50289

DATE/TIME CALIBRATION 7/21/94 0700 ACCEPTANCE CODE: A

CALIBRATION GASES			
TYPE/CYLINDER ID NO.		CONCENTRATION (PPM)	
1 METHANE/ 32875		1 100	
2 NA		2 NA	

IENTS NONE

E IM)	SAMPLE ID	OBSERVED READING (ppm) DH	HS	BZ	D	METHANE ~~OT~~	DRILLING DEPTH (ft)	COMMENTS
e	B11001	0	NA	NR	NA	NR	2	NONE
10	"	90		0			4	
20	B11002, B11102	700		0			6	
28	"	>1000		0		1000	8	
37	B11002, B11102	>1000		0		NR	10	
49	B11003	70		0			12	
59	"	40		NR			14	
14	"	120		0			16	
28	B11004	45		NR			18	
45	"	10					20	
00	"	8					22	
				LAST	ENTRY			

ACCEPTANCE CODES: A - ACCEPTABLE, R - RECONNAISSANCE, U - UNACCEPTABLE, N - NOT DETERMINED

ON TYPES: SB - SAMPLE BOTTLE
REHOLES L - SURFACE LOCATION
WL - WELL
IL MPLE OT - OTHER (EXPLAIN)

OBSERVED READING:
DH - DOWNHOLE BZ - BREATHING ZONE
HS - HEADSPACE D - DURING DRILLING (BZ)
OT - OTHER

E BOLDED DATA FOR ENTRY INTO TIMS

7/21/94 FORM COMPLETED BY / DATE

7/28/94 TECHNICAL REVIEWER / DATE

B12 PAD

BOREHOLE OR WELL PLUGGING / ABANDONMENT

SOIL BORING B11 P137

ROJECT: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1

PROJECT NO.: 34896

TE ID NUMBER: B11 DATE PLUGGED 7 / 22 / 94

TE COORDINATES: N: NA DEPTH BLS (ft) 20.5

E: NA

PE OF CASING: NA

ASING DIAMETER (ID) (in.) NA GROUND ELEVATION (ft msl) NA

CREENED ELEVATION (ft msl) NA

EOLOGIC MATERIAL AT SCREEN NA

MOUNT OF CASING REMOVED (ft) NA

LUGGING MATERIAL BENTONITE GROUT

PPROX. VOLUME OF PLUGGING MATERIAL (cu ft.) 7.2

LUGGING METHOD TREMIED THROUGH AUGERS

EMARKS 3 - 50 lb BAGS CEMENT AND 1/2 - 50 lb BAG BENTONITE IN 55 GALLONS OF WATER IS ONE BATCH GROUT WHICH IS ABOUT 7.4 ft³

LAST ENTRY

RECORDED BY: [signature] (Signature) QA CHECKED BY: [signature] 7/26/94 (Signature)

137

B12 PAD

SOLID MATRICES

SOIL
- [01] Surface (0-6 inches)
- [02] Subsurface (>6 inches)
- [09] Other

SEDIMENT / SLUDGES
- [11] Lake/Pond
- [12] River/Stream
- [13] Impoundment/Pond
- [14] Drum/Tank
- [19] Other

AIR SAMPLE
- [21] Filter
- [22] Sorbent
- [23] Sweepings/Fugitive Dust
- [24] Gases
- [29] Other

BIOLOGICAL/TERRESTRIAL
- [31] Biota
- [39] Other

GEO-TECHNICAL
- [41] Retained on #40
- [42] Retained on #200
- [43] Passed through #200
- [49] Other

LIQUID MATRICES

SURFACE WATER
- [51] Lake/Pond
- [52] River/Stream
- [53] Impoundment/Pond
- [54] Discharge
- [55] Spring/Seep
- [59] Other

GROUND WATER
- [61] Abandoned Well
- [62] Extraction Well
- [63] Injection Well
- [64] Irrigation Well
- [65] Lysimeter
- [66] Monitoring Well
- [67] Observation Well
- [68] Piezometer
- [69] Other
- [6A] Public Water Supply
- [6B] Purge Well
- [6C] Test Well
- [6D] Vapor Well
- [6E] Leachate Well

CONTAINERIZED

SEALED	UNSEALED
[71] Drum/Tank	[81] Drum/Tank
[79] Other	[89] Other

SAMPLE LOG SHEET

PROJECT NAME: Mound Operational Area **PROJECT NO:** 2680 p. 142

SAMPLE ID NUMBER: B11001 DATE COLLECTED (MM/DD/YY): 7/21/94 TIME (HH:MM): 0800

SAMPLING -

LOCATION CODE: MNDOA

DESCRIPTION: MOUND OPERATIONAL AREA

POINT CODE: B11

DESCRIPTION: OPERAIONAL AREA BORING #11

SAMPLE -

MEDIA CODE: 01

DESCRIPTION: Soil Surface (0 - 6 Inches)

DEPTH 0.00 TO ~~6.00~~ 2.00 (ac 7/20/99) FT

142

SAMPLE TYPE:

- [X] GRAB
- [ ] TIME COMPOSITE
- [ ] QC RINSATE
- [ ] OTHER (SPECIFY)
- [ ] SPATIAL COMPOSITE
- [ ] QC TRIP BLANK
- [ ] QC FIELD BLANK

FIELD OBSERVATIONS: TAKEN WITH BOWL AND SPOON

SAMPLE COLLECTED: [X] YES [ ] NO

SAP SAMPLING PROCEDURE WAS FOLLOWED: [X] YES [ ] NO FIELD CHANGE ORDER REFERENCE NO: NA

IF SAP WAS NOT FOLLOWED, SPECIFY WHAT DEVIATIONS WERE NECESSARY AND WHY (INCLUDE FIELD CHANGE ORDER REFERENCE NO.):

NA

RECORDED BY: [signature] (SIGNATURE) QA CHECKED BY: [signature] 7/28/94 (SIGNATURE) (DATE)

RECORDED BY: _____ (SIGNATURE) QA CHECKED BY: _____ 7/28/94

SAMPLE ID NUMBER: B11ØØ1 P-143

CONTAINER VOLUME (ml)	CONTAINER TYPE	METHOD NAME AND NUMBER ANALYSIS	PRESERVATIVES (TYPE/VOL)	C-O-C #	AIR BILL #	CONTAINER LOT #	LABORATORY
1-12Ø	WM Glass	CLPVOA	Cool,4C	QACØ17	8219960523	SEE CONTAINER LOT # LOG	COMPUC
1-25Ø	AmbGlass	SVOC,PEST/PCB	Cool,4C				COMPUC
1-25Ø	AmbGlass	EXPLOSIVES	Cool,4C				COMPUC
2-25Ø	WM Glass	ANIONS Fl,SO4,Cl,NØ2/NØ3	Cool,4C				COMPUC
1-25Ø	WM Glass	METALS,Cyanide	Cool,4C				COMPUC
1-12Ø	Poly	LANTHANIDES	Cool,4C				COMPUC
1-12Ø	AmbGlass	TOTAL ORGANIC CARBON	Cool,4C				COMPUC
2-25Ø	WM GLASS	RADS Ac,Sr,H3,GAMMA	NONE				COMPUC
2-25Ø	WM GLASS	RADS Pu,Th,U	NONE				COMPUC
		CAS ENTRY					

SAMPLE ID'S RINSATE: ERØØØ9 TRIP BLANK: TBAØ17 FIELD BLANK: AB0005 FIELD DUPLICATE: NA

RECORDED BY: _____ (SIGNATURE) QA CHECKED BY: _____ 7/28/94 (SIGNATURE)

143

SAMPLE LOG SHEET

PROJECT NAME: Mound Operational Area **PROJECT NO:** 2680 p.144

SAMPLE ID NUMBER: B11002 DATE COLLECTED (MM/DD/YY): 7/21/94 TIME (HH:MM): 0820

SAMPLING -

LOCATION CODE: MNDOA

DESCRIPTION: MOUND OPERATIONAL AREA

POINT CODE: B11

DESCRIPTION: OPERAIONAL AREA BORING #11

SAMPLE -

MEDIA CODE: 02

DESCRIPTION: Soil Subsurface (>6 Inches)

DEPTH 4.00 TO 10.00 FT

144

SAMPLE TYPE:

- [X] GRAB
- [ ] TIME COMPOSITE
- [ ] QC RINSATE
- [ ] OTHER (SPECIFY)
- [ ] SPATIAL COMPOSITE
- [ ] QC TRIP BLANK
- [ ] QC FIELD BLANK

FIELD OBSERVATIONS: NONE

SAMPLE COLLECTED: [X] YES [ ] NO

SAP SAMPLING PROCEDURE WAS FOLLOWED: [X] YES [ ] NO FIELD CHANGE ORDER REFERENCE NO: NA

IF SAP WAS NOT FOLLOWED, SPECIFY WHAT DEVIATIONS WERE NECESSARY AND WHY (INCLUDE FIELD CHANGE ORDER REFERENCE NO.):

NONE

RECORDED BY: [signature] (SIGNATURE) QA CHECKED BY: [signature] 7/28/94

RECORDED BY: [signature] (SIGNATURE) QA CHECKED BY: [signature] 7/28/94

SAMPLE ID NUMBER: B11002 P. 145

CONTAINER VOLUME (ml)	CONTAINER TYPE	METHOD NAME AND NUMBER ANALYSIS	PRESERVATIVES (TYPE/VOL)	C-O-C #	AIR BILL #	CONTAINER LOT #	LABORATORY
1-120	WM Glass	CLPVOA	Cool,4C	OAC017	8219960523	SEE CONTAINER LOT # LOG	COMPUC
1-250	AmbGlass	SVOC,PEST/PCB	Cool,4C				COMPUC
1-250	AmbGlass	EXPLOSIVES	Cool,4C				COMPUC
GL 7/28/94 2 ~~1~~-250	WM Glass	ANIONS Fl,SO4,Cl,N02/N03	Cool,4C				COMPUC
1-250	WM Glass	METALS,Cyanide	Cool,4C				COMPUC
1-120	Poly	LANTHANIDES	Cool,4C				COMPUC
1-120	AmbGlass	TOTAL ORGANIC CARBON	Cool,4C				COMPUC
2-250	WM GLASS	RADS Ac,Sr,H3,GAMMA	NONE				COMPUC
2-250	WM GLASS	RADS Pu,Th,U	NONE				COMPUC
			LAST ENTRY				

145

SAMPLE ID'S RINSATE: ER0008 TRIP BLANK: TBA017 FIELD BLANK: AB0005 FIELD DUPLICATE: B11102

RECORDED BY: [signature] (SIGNATURE) QA CHECKED BY: [signature] 7/28/94 (SIGNATURE)

SAMPLE LOG SHEET

PROJECT NAME: Mound Operational Area **PROJECT NO:** 2680 P.146

SAMPLE ID NUMBER: B11003 DATE COLLECTED (MM/DD/YY): 7/21/94 TIME (HH:MM): 0849

SAMPLING -

LOCATION CODE: MNDOA

DESCRIPTION: MOUND OPERATIONAL AREA

POINT CODE: B11

DESCRIPTION: OPERAIONAL AREA BORING #11

SAMPLE -

MEDIA CODE: 02

DESCRIPTION: Soil Subsurface (> 6 Inches)

DEPTH 10.00 TO 15.00 FT

FIELD OBSERVATIONS: NONE

SAMPLE TYPE:

- [X] GRAB
- [ ] TIME COMPOSITE
- [ ] QC RINSATE
- [ ] OTHER (SPECIFY)
- [ ] SPATIAL COMPOSITE
- [ ] QC TRIP BLANK
- [ ] QC FIELD BLANK

SAMPLE COLLECTED: [X] YES [ ] NO

SAP SAMPLING PROCEDURE WAS FOLLOWED: [X] YES [ ] NO FIELD CHANGE ORDER REFERENCE NO: NA

IF SAP WAS NOT FOLLOWED, SPECIFY WHAT DEVIATIONS WERE NECESSARY AND WHY (INCLUDE FIELD CHANGE ORDER REFERENCE NO.):

NA

RECORDED BY: [illegible] QA CHECKED BY: [illegible] 7/28/94

146

RECORDED BY: [signature] (SIGNATURE) QA CHECKED BY: [signature] 7/28/94

SAMPLE ID NUMBER: 511003

P.147

CONTAINER VOLUME (ml)	CONTAINER TYPE	METHOD NAME AND NUMBER ANALYSIS	PRESERVATIVES (TYPE/VOL)	C-O-C #	AIR BILL #	CONTAINER LOT #	LABORATORY
1-120	WM Glass	CLPVOA	Cool,4C	0AC017	5219960523	SEE CONTAINER LOT # LOG	COMPUC
1-250	AmbGlass	SVOC,PEST/PCB	Cool,4C				COMPUC
1-250	AmbGlass	EXPLOSIVES	Cool,4C				COMPUC
1-250	WM Glass	ANIONS Fl,SO4,Cl,N02/N03	Cool,4C				COMPUC
1-250	WM Glass	METALS,Cyanide	Cool,4C				COMPUC
1-120	Poly	LANTHANIDES	Cool,4C				COMPUC
1-120	AmbGlass	TOTAL ORGANIC CARBON	Cool,4C				COMPUC
2-250	WM GLASS	RADS Ac,Sr,H3,GAMMA	NONE				COMPUC
2-250	WM GLASS	RADS Pu,Th,U	NONE				COMPUC
			LAST ENTRY				

147

SAMPLE ID'S RINSATE: ER0008 TRIP BLANK: TBA017 FIELD BLANK: ER0005 FIELD DUPLICATE: NA

RECORDED BY: [signature] (SIGNATURE) QA CHECKED BY: [signature] 7/28/94 (SIGNATURE)

SAMPLE LOG SHEET

PROJECT NAME: Mound Operational Area **PROJECT NO:** 2680 p. 248

SAMPLE ID NUMBER: B12001 DATE COLLECTED (MM/DD/YY): 7/20/94 TIME (HH:MM): 0748

SAMPLING -

LOCATION CODE: MNDOA

DESCRIPTION: MOUND OPERATIONAL AREA

POINT CODE: B12

DESCRIPTION: OPERAIONAL AREA BORING #12

SAMPLE -

MEDIA CODE: 01

DESCRIPTION: Soil Surface (0 - 6 Inches)

DEPTH 0.00 TO ~~5.00~~ 2.00 FT

SAMPLE TYPE:

- [X] GRAB
- [ ] SPATIAL COMPOSITE
- [ ] TIME COMPOSITE
- [ ] QC TRIP BLANK
- [ ] QC RINSATE
- [ ] QC FIELD BLANK
- [ ] OTHER (SPECIFY)

FIELD OBSERVATIONS: NONE

SAMPLE COLLECTED: [X] YES [ ] NO

SAP SAMPLING PROCEDURE WAS FOLLOWED: [X] YES [ ] NO FIELD CHANGE ORDER REFERENCE NO: NA

IF SAP WAS NOT FOLLOWED, SPECIFY WHAT DEVIATIONS WERE NECESSARY AND WHY (INCLUDE FIELD CHANGE ORDER REFERENCE NO.):

NA

RECORDED: (SIGNATURE) CHECKED BY: (SIGNATURE) 7/28/94

248

SOLID MATRICES

SOIL
- [01] Surface (0-6 inches)
- [02] Subsurface (>6 inches)
- [09] Other

SEDIMENT / SLUDGES
- [11] Lake/Pond
- [12] River/Stream
- [13] Impoundment/Pond
- [14] Drum/Tank
- [19] Other

AIR SAMPLE
- [21] Filter
- [22] Sorbent
- [23] Sweepings/Fugitive Dust
- [24] Gases
- [29] Other

BIOLOGICAL/TERRESTRIAL
- [31] Biota
- [39] Other

GEO-TECHNICAL
- [41] Retained on #40
- [42] Retained on #200
- [43] Passed through #200
- [49] Other

LIQUID MATRICES

SURFACE WATER
- [51] Lake/Pond
- [52] River/Stream
- [53] Impoundment/Pond
- [54] Discharge
- [55] Spring/Seep
- [59] Other

GROUND WATER
- [61] Abandoned Well
- [62] Extraction Well
- [63] Injection Well
- [64] Irrigation Well
- [65] Lysimeter
- [66] Monitoring Well
- [67] Observation Well
- [68] Piezometer
- [69] Other
- [6A] Public Water Supply
- [6B] Purge Well
- [6C] Test Well
- [6D] Vapor Well
- [6E] Leachate Well

CONTAINERIZED

SEALED	UNSEALED
[71] Drum/Tank	[81] Drum/Tank
[79] Other	[89] Other

BOREHOLE OR WELL PLUGGING / ABANDONMENT — SOIL BORING

B12 p. 243

PROJECT: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 — PROJECT NO.: 34896

SITE ID NUMBER: B12 DATE PLUGGED 7 / 20 / 94

SITE COORDINATES: N: NA E: NA DEPTH BLS (ft) 23.5

TYPE OF CASING: NA

CASING DIAMETER (ID) (in.) NA GROUND ELEVATION (ft msl)

SCREENED ELEVATION (ft msl) NA

GEOLOGIC MATERIAL AT SCREEN NA

AMOUNT OF CASING REMOVED (ft) NA

PLUGGING MATERIAL BENTONITE GROUT

APPROX. VOLUME OF PLUGGING MATERIAL (cu ft.) 8.2

PLUGGING METHOD TREMIED THROUGH AUGERS

REMARKS 3 - 50 lb BAGS CEMENT AND 1/2 - 50 lb BAG BENTONITE IN 55 GALLON DRUM WATER IS ONE 7.4 FE^3 BATCH OF GROUT

LAST ENTRY

RECORDED BY: [signature] (Signature) QA CHECKED BY: [signature] 7/28/94 (Signature)

FLAME IONIZATION DETECTOR FIELD DATA

SOIL BORING B12-P-241

PROJECT NAME: EG&G MOUND OU5 OPERAIONAL AREA, PHASE 1

PROJECT NO.: 34896

FACILITY CODE: MND21

LOG DATE: 7/20/94

LOCATION ID: B12

LOCATION TYPE: BH, BZ

LOGGER CODE: SAIC

FIELD REP: G LODER

FLAME IONIZATION DETECTOR INSTRUMENT:

MANUFACTURER: FOXBORO

MODEL NO.: 128

SERIAL NO.: 2241

DATE/TIME CALIBRATION 7/20/94 0700

ACCEPTANCE CODE: A

CALIBRATION GASES	
TYPE/CYLINDER ID NO.	CONCENTRATION (PPM)
1 METHANE / 32875	1 100
2 NA	2 NA

COMMENTS NONE

TIME (HH:MM)	SAMPLE ID	OBSERVED READING (ppm) DH	HS	BZ	D	OT	DRILLING DEPTH (ft)	COMMENTS
0748	B12001	2	NA	NR	NA	NA	2	NONE
0754	NA	2		0			4	
0803	NA	17		0			6	
0811	B12002	15		0			8	
0820	"	12		0			10	
0831	NA	40		0			12	
0844	B12003	35		0			14	
0853	"	19		0			16	
0912	"	3		0 NR			18	
0925	"	0					20	
0934	"	0					22	
0956	"	0		0			24	
				LAST ENTRY				

ACCEPTANCE CODES: A - ACCEPTABLE, R - RECONNAISSANCE, U - UNACCEPTABLE, N - NOT DETERMINED

LOCATION TYPES:
BH - BOREHOLES
TP - TEST PIT
SS - SOIL SAMPLE
SB - SAMPLE BOTTLE
L - SURFACE LOCATION
WL - WELL
OT - OTHER (EXPLAIN)

OBSERVED READING:
DH - DOWNHOLE
HS - HEADSPACE
BZ - BREATHING ZONE
D - DURING DRILLING (BZ)
OT - OTHER

COMPLETE BOLDED DATA FOR ENTRY INTO TIMS

7/20/94
FORM COMPLETED BY / DATE

7/28/94
TECHNICAL REVIEWER / DATE

COMBUSTIBLE GAS INDICATOR (CGI) MONITORING DATA

SOIL BORING B12 p. 239

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1

PROJECT NO: 34896

FACILITY CODE: MND21

LOG DATE: 7/20/94

LOGGER CODE: SAIC

FIELD REP: G. LODER

CGI MANUFACTURER: S3 2-10 ~~MSA~~ Industrial Scientific

CGI MODEL NO.: S3 3-10 ~~261~~ MX251

SERIAL NO.: 7470

CALIBRATION DATE/TIME: 7/20/94 0630

ACCEPTANCE CODE: A

BATTERY CONDITION GOOD

CALIBRATION GAS (%LEL)

TYPE PENTANE CONCENTRATION 35 % LEL CYLINDER SERIAL NO RR-34825

CALIBRATION GAS (PPM)

TYPE NA CONCENTRATION NA PPM CYLINDER SERIAL NO NA

COMMENTS: NONE

LOCATION ID OR DESCRIPTION	COORDINATES FT NORTH	COORDINATES FT EAST	MONITORING TIME (HH:MM)	LOCATION TYPE	% LOWER EXPLOSIVE LIMIT	PPM	% OXYGEN
B12	NA	NA	0748	BH	0	NA	NR
			0754		0		
			0803		0		
			0811		0		
			0820		0		
			0831		0		
			0844		0		
			0853		0		
			0912		0		
			0925		0		
			0934		0		
			0946		0		
			LAST ENTRY				

ACCEPTANCE CODES: A - ACCEPTABLE, R - RECONNAISSANCE, U - UNACCEPTABLE, N - NOT DETERMINED

LOCATION TYPES: BH - BOREHOLE SL - SURFACE LOCATION TP - TEST PIT WL - WELL

COMPLETE BOLDED DATA FOR ENTRY INTO TIMS

7/20/94 FORM COMPLETED BY / DATE

7/28/94 TECHNICAL REVIEWER / DATE

BOREHOLE LOG (SOIL)

SOIL BORING B12 P. 227

OJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 PROJECT NO: 34896

ITY CODE: MN221 DRILLER CODE: BOWS

OCATION ID: B12 COMPLETION DATE 7/20/1994

LITHOLOGIC LOG

EPTH (FT)	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE RETAINED	SAMPLE METHOD	SAMPLE ID	BLOW COUNT (PER 6 IN)	N VALUE	USCS	VISUAL DESCRIPTIONS
	20-22	0.6	0.6	U	B12~~0003~~	16/100/3	176	CL	SAME AS 12'-14' DESCRIPTION
									FRAGMENTS OF WEATHERED
									SHALE
	22-24	0.2	0.2	U	B12~~0005~~	61/68/60/100/1	160	NA	HIGHLY WEATHERED AND SLIGHTLY
									WEATHERED SHALE AND
									LIMESTONE FRAGMENTS
35	BEDROCK								
					LAST ENTRY				

OMPLETE BOLDED DATA FOR ENTRY INTO TIMS

7/28/94 FORM COMPLETED BY / DATE

7/28/94 TECHNICAL REVIEWER /

BOREHOLE LOG (SOIL)

SOIL B12 P22

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1

PROJECT NO.

FACILITY CODE: MND21

DRILLER CODE: BOWS

LOCATION ID: B12

COMPLETION DATE 7/20/1994

LITHOLOGIC LOG

DEPTH (FT)	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE RETAINED	SAMPLE METHOD	SAMPLE ID	BLOW COUNT (PER 6 IN)	N VALUE	USCS	VISUAL DESCRIPTIONS
	4-6	Ø.1	Ø	U	NA	30/15/17/21	38	GW	COBBLES AND GRAVEL
	6-8	Ø.6	Ø.6	U	B12002	30/12/19/14	33	GW	6-7.5 SAME AS ABOVE
7.5								CH	7.5-8 CLAY FIRM HEAVILY
									LAMINATED PLASTIC MOIST
									5Y 5/2 OLIVE GRAY
	8-10	Ø	Ø	U	B12002	17/22/33/17	50	NA	NO RECOVERY. TAKING CUTTINGS
									FOR SAMPLE WHICH ARE
									SAME DESCRIPTION AS
									7.5'-8' USED RINSATE
									BOWL AND SPOON
	10-12	Ø	Ø	U	NA	20/18/30/42	72	NA	NO RECOVERY DUE TO COBBLES
12	12-14	1.2	1.2	U	B12003	42/39/41/39	60	CL	CLAY VERY FIRM DRY
									SLIGHTLY PLASTIC LAMINATED
									5Y 5/2 OLIVE GRAY WITH
									PROMINENT 5BG 6/1 GREENISH
									GRAY MOTTLING
14	14-16	Ø	Ø	U	NA	100/5	105	NA	NO RECOVERY COBBLES
	16-18	Ø	Ø	U	NA	100/7	102	NA	NO RECOVERY COBBLES
	18-20	Ø	Ø	U	NA	100/3	103	NA	NO RECOVERY COBBLES

COMPLETE BOLDED DATA FOR ENTRY INTO TIMS

7/20/94 FORM COMPLETED BY / DATE

7/28/94 TECHNICAL REVIEWER

BOREHOLE LOG (SOIL)

SOIL BORING

312 p.225

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1

PROJECT NO: 34896

Page 1 of 3

/ CODE: MNDZI

LOCATION ID: B12

COORDINATES (FT):

NORTH NA EAST NA

GROUND ELEVATION (FT MSL)

LOCATION TYPE: BH

COMMENTS: NONE

DRILLER CODE: BOWS

COMPLETION DATE 7 / 20/1994

DIAMETER (IN): 8

DEPTH (FTFD): 23.5

CONSTRUCTION METHOD: B

ACCEPTANCE CODE: A

GROUNDWATER LEVELS

DATE	TIME	DEPTH (FT)
NONE ENCOUNTERED		

LOCATION DESCRIPTION

IN SOUTHBOUND LANE OF ROAD OFF NORTHWEST CORNER OF BLDG 51

LITHOLOGIC LOG

LOGGER CODE: SAIC

DEPTH (FT)	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE RETAINED	SAMPLE METHOD	SAMPLE ID	BLOW COUNT (PER 6 IN)	N VALUE	USCS	VISUAL DESCRIPTIONS
	Ø-2	FULL	FULL	O	B12001	NA	NA	SP	ROAD BED FILL
									VERY COARSE SAND AND
									GRAVEL SOME SILT POORLY
									SORTED ANGULAR TO WELL
									ROUNDED DRY LOOSE
									10 YR 4/3 BROWN
	2-4	Ø.1	Ø	U	NA	100/4	ØØ	SP	SAME AS ABOVE W/ COBBLES
									HINDERING RECOVERY

ACCEPTANCE CODES: A - ACCEPTABLE, R - RECONNAISSANCE, U - UNACCEPTABLE, N - NOT DETERMINED

CONSTRUCTION METHODS:

- AIR ROTARY
- BORED OR AUGERED
- CABLE - TOOL
- DUG
- HYDRAULIC - ROTORY
- DRIVEN
- P - AIR - PERCUSSION
- R - REVERSE ROTERY
- T - TRENCHING
- V - DRIVEN
- W - DRIVE AND WASH
- Z -OTHER (SPECIFY)

SAMPLE METHODS:

- A - AUGER CUTTINGS
- S - 2" O.D. 1.38" I.D. DRIVE SAMPLES
- U - 3" O.D. 2.42" I.D. TUBE SAMPLES
- T - 3" O.D. THIN-WALLED SHELBY TUBE
- O - OTHER (SPECIFY)

COMPLETE BOLDED DATA FOR ENTRY INTO TIMS

FORM COMPLETED BY / DATE 7/20/94

TECHNICAL REVIEWER / DATE 7/28/94

TASK TEAM ACTIVITY LOG SHEET

SOIL BORING B12 P 216

PROJECT NAME: EG&G MOUND OUS OPERATIONAL AREA, PHASE 1

TASK NO.: 34896

Date (mm/dd/yy): 7/20/94 TIME: NA PAGE 2 OF 2

Task Team Members:

SEE PAGE 215

Narrative (include time and location):

0831 PULL SPOON FROM 10-12 OVA = 40 PPM BH LEL=0
OVA = 0 PPM BZ

0844 PULL SPOON FROM 12-14 OVA = 35 PPM BH LEL=0
BEGIN B12003 OVA = 0 PPM BZ

0853 PULL SPOON FROM 14-16 OVA = 19 PPM BH LEL=0
OVA = 0 PPM BZ

0912 PULL SPOON FROM 16'-18' OVA = 3 PPM LEL=0

0925 " " " 18-20 OVA = 0 LEL=0

NO RECOVERY IN LAST 3 SPOONS CUTTINGS ARE NOT SUITABLE TO FINISH B12003

0934 PULL SPOON FROM 20-22 OVA=0 LEL=0

0946 " " " 22-24 OVA=0 LEL=0

BEDROCK @ 23.5

0956 BEGIN GROUTING

1029 FINISH GROUTING MOVE EXCLUSION ZONE TO B10

1034 LEAVE SITE TWA FOR AIR MONITORING = 4.16

LAST ENTRY

Daily Weather Conditions: A.M. 75°F SUNNY HUMID

P.M. NA

Recorded By [signature] QA Checked By [signature] 7/28/94

TASK TEAM ACTIVITY LOG SHEET

SOIL BORING

B12 p.215

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1

TASK NO.: 34896

Date (mm/dd/yy): 7/20/94 TIME: 0715 PAGE 1 OF 2

Task Team Members:

GREG LODER SAIC

GEORGE WAHL SAIC

JOLETTA HUMPERT SAIC

DENNIS SINK BM

DWIGHT WORK BM

Narrative (include time and location):

0715 ARRIVE ON SITE DRILLERS HERE SINCE WE ARE BLOCKING HALF THE ROAD JOLETTA IS ACTING AS AS FLAGPERSON FOR TRAFFIC WEARING ORANGE VEST WITH ORANGE FLAG

0730 HENRY ON SITE W/ PERMIT

0748 TAKE B12001 OVA = 2 ppm LEL = 0 TAKEN WITH SPOON AND BOWL

0754 PULL SPOON FROM 2-4 OVA = 2 ppm LEL = 0

0803 " " " 4-6 OVA = 17 ppm BH LEL = 0

OVA = 0 BZ

HAVING RECOVERY PROBLEMS DUE TO COBBLES AND GRAVEL

0811 PULL SPOON FROM 6-8 OVA = 15 ppm BH LEL = 0

BEGIN B12002 IN RINSATE BOWL OVA = 0 ppm BZ

0820 PULL SPOON FROM 8-10' OVA = 12 ppm BH LEL = 0

OVA = 0 ppm BZ

NO RECOVERY IN LAST 2 SPOONS. I'VE BEEN WATCHING CUTTINGS AND DECIDED TO USE THEM FOR B12002 INTERVAL WILL BE 6-10' MATERIAL IS SAME AS FROM 7.5-8.0 DESCRIPTION

Daily Weather Conditions: A.M. 75°F SUNNY HUMID

P.M. NA

Recorded By [signature] QA Checked By [signature] 7/28/94

STANDARD ELECTRICAL CONDUCTIVITY DATA

SOIL BORING B11-P211

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1

PROJECT NO: 34896

FACILITY CODE: MND21

LOGGER CODE: SAIC

LOG DATE: 7/28/94

ACCEPTANCE CODE: A

MANUFACTURER/Ec METER ID: YSI MODEL 3000; SN 91D029512 HAZCO # 279

ELECTRICAL CONDUCTIVITY OF KNOWN SOLUTIONS AT 25° C:	
KNOWN (mg/l KCl)	Ec (meter)
10000 µohms/cm	1.147
NA	NA
NA	NA

Ec	TEMPERATURE (°C) LAB THERMOMETER	TEMPERATURE (°C) (Ec METER)
NR	0	NR
↓	1	↓
	2	
0.877	3	16.8
0.887	4	16.1
0.899	5	16.2
0.908	6	16.2
0.923	7	16.3
0.966	8	16.5
0.975	9	16.7
0.980	10	16.8
0.982	11	17.0
0.986	12	17.1
0.990	13	17.2
0.995	14	17.4
1.001	15	17.6
1.019	16	17.8
1.030	17	18.0
1.036	18	18.4
1.048	19	18.7
1.062	20	19.2
1.077	21	19.7
1.086	22	20.1
1.099	23	20.7
1.128	24	21.8
1.147	25	22.5

7/28/94

COMPLETE BOLDED DATA FOR ENTRY INTO TIMS

7/28/94 FORM COMPLETED BY / DATE

7/28/94 TECHNICAL REVIEWER / DATE

211

GROUNDWATER QUALITY SAMPLING RECORD

SOIL BORING B11 p. 209

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1

PROJECT NO. 34896

PAGE 1 OF 1

FACILITY CODE: MND21

LOCATION ID: B11 SAMPLE W11001

LOG DATE: 7/21/94

ERROR AT 4.50: $\frac{X1 - X2}{XS}$ X 100 = 1.62 %

1st = 21.8 %

2nd = 33 %

INITIAL pH 8.10

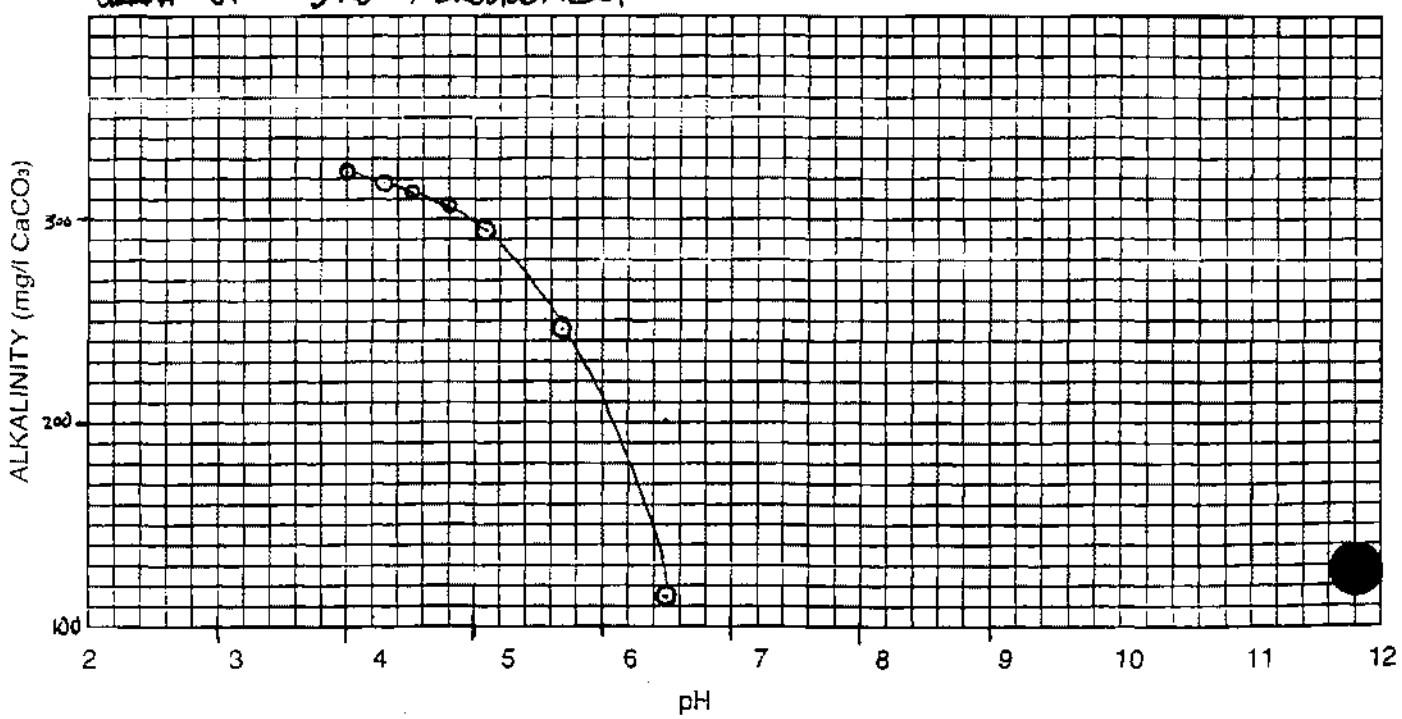
pH CHECK AFTER TITRATION

7.00 = 7.03

4.00 = 4.02

pH	ALKALINITY (mg/l $CaCO_3$)		
	1st	2nd = X_1	3rd = X_2
8.90	NR	NR	NR
8.60	NR	↓	↓
8.30	NR		
8.05	31		
7.80	60	21	NR
7.50	105	34	NR
6.50	272	143	114
5.70	326	246	246
5.10	346	288	295
4.80	357	NR	307
4.50	369	303	313
4.25	379	NR	317
4.00	392	311	323

GRAPH OF 3RD MEASUREMENT



GROUNDWATER QUALITY SAMPLING RECORD

SOIL BORING B11 P-207

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1

PROJECT NO: 34896

PAGE 1 OF 1

FACILITY CODE: MND21

LOCATION ID: B11

LOG DATE: 7/21/94

BORE VOL CALCULATION (GAL)

$\frac{d^2\pi}{4}$ $(h_1 - h_2)$ X 7.48

$\frac{(.167^2)(3.14)}{4}$ (20.5-12.5) (7.48) =

DEPTH OF WELL (h2) (ft): 20.5

DEPTH TO WATER (h1) (ft): 12.5

WELL DIAMETER (ft): ~~0.67~~ 0.167

ONE BORE VOLUME (GAL): ~~20.9~~ 1.3

SCREENED INTERVAL (ft): 15 - 20

FIELD REP: G LOYDER

INSTRUMENT(S) USED: pH, TEMP, CONDUCTIVITY, REDOX, DO, OVA, LEL

SAMPLING INFORMATION

WITDRAWL METHOD: BAILER

FILTER SIZE: NA

THERMOMETER ID: NA

Ec METER ID: 2179

pH METER ID: 2025

PUMP ID: NA

ALKALINITY KIT ID: AL-DT HACH

CALIBRATION INFORMATION

DATE/TIME OF LAST Ec CALIBRATION: 7/18/94 0900

TIME OF pH CALIBRATION: 1030

FOR STANDARD pH 7, INSTRUMENT READING: 7.01

FOR STANDARD pH 4, INSTRUMENT READING: 4.02

FOR STANDARD pH 10, INSTRUMENT READING: 10.00

Eh OF CALIBRATION SOLUTION: ~~49.01 mohms/cm~~ 1,000 AND 10,000 µchms/cm

Eh READING IN CALIBRATION SOLUTION AFTER MEASUREMENT: NR

TEMP OF CALIBRATION SOLUTION (°C): 3°C - 25°C

SHIPPING INFORMATION

LAB(S) SHIPPED TO:	COMPUCHEM	NA	NA
DATE(S) SHIPPED:	7/21/94	↓	↓
METHOD OF SHIPMENT:	FEDEX	↓	↓

COMMENTS: NONE

GROUNDWATER QUALITY SAMPLING RECORD

SOIL BORING

B11 P.205

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1

PROJECT NO: 34896

PAGE 1 OF 1

CILITY CODE: MND21

CATION ID: B11

MPLE ID: W11001

G DATE: 7/21/94

IALYICAL LAB CODE: COMP

LOT CONTROL NO.: NA

SAMPLE TYPE: F

ACCEPTANCE CODE: A

LOGGER CODE: SAIC

IAL GROUNDWATER DEPTH (FT): 12.5

MPLING PERIOD: START 1439

MPLING METHOD: 3

MMENTS NONE

SAMPLE DEPTH (FT): 12.5

COMPLETE 1507

DATE SENT: 7/21/94

IAL PARAMETER MEASUREMENTS:

TENTIAL OF HYDROGEN	pH	S.U.	8.10
ECIFIC CONDUCTANCE	Ec	umhos/cm	115
DOX POTENTIAL	Eh	mvolts	-59.9
MPERATURE	TMP	°C	16.3
Y ($CaCO_3$)	ALK	mg/l	323 (300 RUN)
SSOLVED OXYGEN	DO	mg/l	5.0

TIME	TOTAL VOLUME WITHDRAWN (GALS)	(Bore Volume)	pH	Ec (umhos/cm)	TEMP (°C)	COMMENTS
1123	2	1.5 NA	7.33	121	22.3	NONE
1135	4	3	8.02	120	22.2	
1146	7	5.5 JHD	8.21	120	21.1	
1216	13	10 8/12/94	8.26	119	19.9	
1254	25	19	8.34	117	17.3	
1337	38	29	8.26	116	16.4	
1402	47	36	7.70	115	16.7	
1413	49	38	8.28	113	17.4	
1418	51	39	8.11	115	15.7	
1424	52	40	7.96	115	15.7	
1429	55	42	7.97	116	15.7	
1434	56	43	7.97	115	15.6	

ACCEPTANCE CODES: A - ACCEPTABLE, R - RECONNAISSANCE, U - UNACCEPTABLE, N - NOT DETERMINED

MPLE TYPES:
F
R - REPLICATE
A - ACID BLANK

SAMPLING METHODS:
BP - BLADDER PUMP
PP - PERISTALIC PUMP
G - GRAB
B - BAILER
AL - AIR-LIFT SAMPLER
SL - SUCTION LIFT PUMP
SP - SUBMERSIBLE PUMP

PLETE BOLDED DATA FOR ENTRY INTO TIMS

7/21/94
FORM COMPLETED BY / DATE

7/28/94
TECHNICAL REVIEWER / DATE

B12 OAd

RECORDED BY: [signature] (SIGNATURE) QA CHECKED BY: [signature] 7/28/94 (SIGNATURE)

SAMPLE ID NUMBER: P.187

CONTAINER VOLUME (ml)	CONTAINER TYPE	METHOD NAME AND NUMBER ANALYSIS	PRESERVATIVES (TYPE/VOL)	C-O-C #	AIR BILL #	CONTAINER LOT #	LABORATORY
1-120	WM Glass	CLPVOA	Cool,4C	OAC017	8219960523	SEE CONTAINER LOT # LOG	COMPUC
1-250	AmbGlass	SVOC,PEST/PCB	Cool,4C				COMPUC
1-250	AmbGlass	EXPLOSIVES	Cool,4C				COMPUC
GL 7/22/94 1-250	WM Glass	ANIONS Fl,SO4,Cl,N02/N03	Cool,4C				COMPUC
1-250	WM Glass	METALS,Cyanide	Cool,4C				COMPUC
1-120	Poly	LANTHANIDES	Cool,4C				COMPUC
1-120	AmbGlass	TOTAL ORGANIC CARBON	Cool,4C				COMPUC
2-250	WM GLASS	RADS Ac,Sr,H3,GAMMA	NONE				COMPUC
2-250	WM GLASS	RADS Pu,Th,U	NONE				COMPUC
		LAST ENTRY					

187

SAMPLE ID'S RINSATE: ER0008 TRIP BLANK: TBA017 FIELD BLANK: AB0005 FIELD DUPLICATE: B110002

RECORDED BY: [signature] (SIGNATURE) QA CHECKED BY: [signature] 7/28/94 (SIGNATURE)

SAMPLE LOG SHEET

PROJECT NAME: Mound Operational Area

PROJECT NO: 2680 p. 186

SAMPLE ID NUMBER: B11102 DATE COLLECTED (MM/DD/YY): 7/21/94 TIME (HH:MM): 0820

SAMPLING -

LOCATION CODE: MNDOA

DESCRIPTION: MOUND OPERATIONAL AREA

POINT CODE: B11

DESCRIPTION: OPERATIONAL AREA BORING # 11

SAMPLE -

MEDIA CODE: 01 SOIL SUBSURFACE (> 6 INCHES)

DESCRIPTION: ~~Soil Surface (0 - 6 inches)~~ AL 7/21/94

DEPTH ~~0.00~~ AL 7/21/94 4.00 TO ~~6.00~~ AL 7/21/94 10.00 FT

SAMPLE TYPE:

- [ ] GRAB
- [ ] TIME COMPOSITE
- [ ] QC RINSATE
- [ ] SPATIAL COMPOSITE
- [ ] QC TRIP BLANK
- [ ] QC FIELD BLANK
- [x] OTHER (SPECIFY) QC Field Duplicate

FIELD OBSERVATIONS:

DUPLICATE OF B11002

SAMPLE COLLECTED: [x] YES [ ] NO

SAP SAMPLING PROCEDURE WAS FOLLOWED: [x] YES [ ] NO FIELD CHANGE ORDER REFERENCE NO: NA

IF SAP WAS NOT FOLLOWED, SPECIFY WHAT DEVIATIONS WERE NECESSARY AND WHY (INCLUDE FIELD CHANGE ORDER REFERENCE NO.):

NONE

RECORDED BY: [signature] CHECKED BY: [signature] 7/25/94

101

RECORDED BY: [illegible] (SIGNATURE) QA CHECKED BY: [illegible] 7/28/94 [redacted]

SAMPLE ID NUMBER: W11001 P. 183

CONTAINER VOLUME (ml)	CONTAINER TYPE	METHOD NAME AND NUMBER ANALYSIS	PRESERVATIVES (TYPE/VOL)	C-O-C #	AIR BILL #	CONTAINER LOT #	LABORATORY
2-40	Glass	CLPVOA	HCL to pH<2,4C	JAC017	8219960523	SEE CONTAINER LOT # LOG	COMPUC
2-40	Glass	CLPVOA - 8010	HCL to pH<2,4C				COMPUC
2-1000	AmbGlass	CLP SVOC	Cool,4C				COMPUC
2-1000	AmbGlass	CLP PEST / PCB	Cool,4C				COMPUC
2-1000	AmbGlass	EXPLOSIVES	Cool,4C				COMPUC
1-1000	Poly	METALS	HNO3 to pH<2,4C				COMPUC
1-1000	Poly	CYANIDE	NaOH to pH>12,4C				COMPUC
3 GL 7/21/94 1-1000	Poly	ANIONS Fl,SO4,Cl	Cool,4C				COMPUC
1-1000	Poly	NO2/NO3	H2SO4 to pH<2,4C				COMPUC
1-1000	Poly	TOTAL NIT/TOTAL PHOS	H2SO4 to pH<2,4C				COMPUC
1-1000	AmbGlass	TOTAL ORGANIC CARBON	H2SO4 to pH<2,4C				COMPUC
1-1000	Poly	TOTAL SUSPENDED SOLIDS	Cool,4C				COMPUC
1-1000	Poly	TOTAL DISSOLVED SOLIDS	Cool,4C				COMPUC
1-1000	Poly	ALKALINITY	Cool,4C				COMPUC
2-1000	Poly	RADS Pu,Th,U,Am	HNO3 TO PH<2				COMPUC
2-1000	Poly	RADS Ac,Ra,Sr,GAMMA	HNO3 TO PH<2				COMPUC
1-1000	Glass	TRITIUM	NONE				COMPUC
1-1000	Poly	LANTHANIDES	HNO_3 TO PH<2				

183

SAMPLE ID'S RINSATE: ER0004 TRIP BLANK: TBA017 FIELD BLANK: AB0002 FIELD DUPLICATE: NA

RECORDED BY: [signature] (SIGNATURE) QA CHECKED BY: [illegible] 7/28/94 (SIGNATURE)

SAMPLE LOG SHEET

PROJECT NAME: Mound Operational Area

PROJECT NO: 2680 p. 182

SAMPLE ID NUMBER: W11001

DATE COLLECTED (MM/DD/YY): 7/21/94

TIME (HH:MM): 1439

SAMPLING -

LOCATION CODE: MNDOA

DESCRIPTION: MOUND OPERATIONAL AREA

POINT CODE: B11

DESCRIPTION: OPERAIONAL AREA BORING #11

SAMPLE -

MEDIA CODE: 69

DESCRIPTION: Other Groundwater

DEPTH NA TO NA NA

SAMPLE TYPE:

- [X] GRAB
- [ ] SPATIAL COMPOSITE
- [ ] TIME COMPOSITE
- [ ] QC TRIP BLANK
- [ ] QC RINSATE
- [ ] QC FIELD BLANK
- [ ] OTHER (SPECIFY)

FIELD OBSERVATIONS: NONE

SAMPLE COLLECTED: [X] YES [ ] NO

JMD 7/26/94

SAP SAMPLING PROCEDURE WAS FOLLOWED: [X] YES [X] NO

FIELD CHANGE ORDER REFERENCE NO: 05- NP-012

IF SAP WAS NOT FOLLOWED, SPECIFY WHAT DEVIATIONS WERE NECESSARY AND WHY (INCLUDE FIELD CHANGE ORDER REFERENCE NO.):

PACKER WAS NOT USED ON WELL POINT. SEE ABOVE TRPC

APPROVED BY:

RECORDED BY: [signature] (SIGNATURE) QA CHECKED BY: [signature] 7/28/94

SAMPLE ID NUMBER: B11004

CONTAINER VOLUME (ml)	CONTAINER TYPE	METHOD NAME AND NUMBER ANALYSIS	PRESERVATIVES (TYPE/VOL)	C-O-C #	AIR BILL #	CONTAINER LOT #	LABORATORY
1-120	WM Glass	CLPVOA	Cool,4C	JAC017	8219960523	SEE CONTAINER LOT # LOG	COMPUC
1-250	AmbGlass	SVOC,PEST/PCB	Cool,4C				COMPUC
1-250	AmbGlass	EXPLOSIVES	Cool,4C				COMPUC
1-250	WM Glass	ANIONS Fl,SO4,Cl,N02/N03	Cool,4C				COMPUC
1-250	WM Glass	METALS,Cyanide	Cool,4C				COMPUC
1-120	Poly	LANTHANIDES	Cool,4C				COMPUC
1-120	AmbGlass	TOTAL ORGANIC CARBON	Cool,4C				COMPUC
2-250	WM GLASS	RADS Ac,Sr,H3,GAMMA	NONE				COMPUC
2-250	WM GLASS	RADS Pu,Th,U	NONE				COMPUC
		LAST ENTRY					

SAMPLE ID'S RINSATE: ER8008 TRIP BLANK: TB8017 FIELD BLANK: NB8005 FIELD DUPLICATE: NA

RECORDED BY: [signature] (SIGNATURE) CHECKED BY: [signature] 7/28/94 (SIGNATURE)

149

SAMPLE LOG SHEET

PROJECT NAME: Mound Operational Area **PROJECT NO:** 2680 p. 148

SAMPLE ID NUMBER: B11Ø04 DATE COLLECTED (MM/DD/YY): 7/21/94 TIME (HH:MM): 0914

SAMPLING -

LOCATION CODE: MNDOA

DESCRIPTION: MOUND OPERATIONAL AREA

POINT CODE: B11

DESCRIPTION: OPERAIONAL AREA BORING #11

SAMPLE -

MEDIA CODE: Ø2

DESCRIPTION: Soil Subsurface (>6 Inches)

DEPTH 15.ØØ TO ~~20.ØØ~~ 20.50 FT

SAMPLE TYPE:

- [X] GRAB
- [ ] TIME COMPOSITE
- [ ] QC RINSATE
- [ ] OTHER (SPECIFY)
- [ ] SPATIAL COMPOSITE
- [ ] QC TRIP BLANK
- [ ] QC FIELD BLANK

FIELD OBSERVATIONS: NONE

SAMPLE COLLECTED: [X] YES [ ] NO

SAP SAMPLING PROCEDURE WAS FOLLOWED: [X] YES [ ] NO FIELD CHANGE ORDER REFERENCE NO: NA

IF SAP WAS NOT FOLLOWED, SPECIFY WHAT DEVIATIONS WERE NECESSARY AND WHY (INCLUDE FIELD CHANGE ORDER REFERENCE NO.):

NA

RECORDED BY: [illegible] 7/28/94

148

RECORDED [signature] (SIGNATURE) CHECKED BY: [signature] 7/28/94 (SIGNATURE)

SAMPLE ID NUMBER: B12001 P. 249

CONTAINER VOLUME (ml)	CONTAINER TYPE	METHOD NAME AND NUMBER ANALYSIS	PRESERVATIVES (TYPE/VOL)	C-O-C #	AIR BILL #	CONTAINER LOT #	LABORATORY
1-120	WM Glass	CLPVOA	Cool,4C	OAC016	8219960626	SEE CONTAINER LOT # LOG	COMPUC
1-250	AmbGlass	SVOC,PEST/PCB	Cool,4C				COMPUC
1-250	AmbGlass	EXPLOSIVES	Cool,4C				COMPUC
1-250	WM Glass	ANIONS Fl,SO4,Cl,N02/N03	Cool,4C				COMPUC
1-250	WM Glass	METALS,Cyanide	Cool,4C				COMPUC
1-120	Poly	LANTHANIDES	Cool,4C				COMPUC
1-120	AmbGlass	TOTAL ORGANIC CARBON	Cool,4C				COMPUC
2-250	WM GLASS	RADS Ac,Sr,H3,GAMMA	NONE				COMPUC
2-250	WM GLASS	RADS Pu,Th,U	NONE				COMPUC
			LAST ENTRY				

249

SAMPLE ID'S RINSATE: ER0009 TRIP BLANK: TBA016 FIELD BLANK: AB0005 FIELD DUPLICATE: NA

RECORDED BY: [signature] (SIGNATURE) QA CHECKED BY: [signature] 7/28/94 (SIGNATURE)

SAMPLE LOG SHEET

PROJECT NAME: Mound Operational Area **PROJECT NO:** 2680 P. 250

SAMPLE ID NUMBER: B12002 DATE COLLECTED (MM/DD/YY): 7/20/94 TIME (HH:MM): 0811

SAMPLING -

LOCATION CODE: MNDOA

DESCRIPTION: MOUND OPERATIONAL AREA

POINT CODE: B12

DESCRIPTION: OPERAIONAL AREA BORING #12

SAMPLE -

MEDIA CODE: 02

DESCRIPTION: Soil Subsurface (> 6 Inches)

DEPTH 6.00 TO 10.00 FT

250

SAMPLE TYPE:

- [x] GRAB
- [ ] TIME COMPOSITE
- [ ] QC RINSATE
- [ ] OTHER (SPECIFY)
- [ ] SPATIAL COMPOSITE
- [ ] QC TRIP BLANK
- [ ] QC FIELD BLANK

FIELD OBSERVATIONS: SOME AUGER CUTTINGS WERE USED TO COMPLETE THIS SAMPLE DUE TO RECOVERY PROBLEMS

SAMPLE COLLECTED: [x] YES [ ] NO

SAP SAMPLING PROCEDURE WAS FOLLOWED: [x] YES [ ] NO FIELD CHANGE ORDER REFERENCE NO: NA

IF SAP WAS NOT FOLLOWED, SPECIFY WHAT DEVIATIONS WERE NECESSARY AND WHY (INCLUDE FIELD CHANGE ORDER REFERENCE NO.):

NA

RECORDED BY: [signature] QA CHECKED BY: [signature] 7/28/94

(SIGNATURE) (SIGNATURE)

SAMPLE ID NUMBER: B12ØØ2 P.251

CONTAINER VOLUME (ml)	CONTAINER TYPE	METHOD NAME AND NUMBER ANALYSIS	PRESERVATIVES (TYPE/VOL)	C-O-C #	AIR BILL #	CONTAINER LOT #	LABORATORY
1-12Ø	WM Glass	CLPVOA	Cool,4C	0AC016	8219960626	SEE CONTAINER LOT # LOG	COMPUC
1-25Ø	AmbGlass	SVOC,PEST/PCB	Cool,4C				COMPUC
1-25Ø	AmbGlass	EXPLOSIVES	Cool,4C				COMPUC
2 ~~1~~-25Ø	WM Glass	ANIONS Fl,SO4,Cl,NØ2/NØ3	Cool,4C				COMPUC
1-25Ø	WM Glass	METALS,Cyanide	Cool,4C				COMPUC
1-12Ø	Poly	LANTHANIDES	Cool,4C				COMPUC
1-12Ø	AmbGlass	TOTAL ORGANIC CARBON	Cool,4C				COMPUC
2-25Ø	WM GLASS	RADS Ac,Sr,H3,GAMMA	NONE				COMPUC
2-25Ø	WM GLASS	RADS Pu,Th,U	NONE				COMPUC
			LAST ENTRY				

1/20/94

157

SAMPLE ID'S RINSATE: ERØØØ8-1 TRIP BLANK: TBAØ16 FIELD BLANK: ABØØØ5 FIELD DUPLICATE: NA

RECORDED BY: (SIGNATURE) QA CHECKED BY: (SIGNATURE) 7/28/94

SAMPLE LOG SHEET

PROJECT NAME: Mound Operational Area PROJECT NO: 2680 p. 252

SAMPLE ID NUMBER: B12ØØ3 DATE COLLECTED (MM/DD/YY): 7/20/94 TIME (HH:MM): Ø844

SAMPLING -

LOCATION CODE: MNDOA

DESCRIPTION: MOUND OPERATIONAL AREA

POINT CODE: B12

DESCRIPTION: OPERAIONAL AREA BORING #12

SAMPLE -

MEDIA CODE: Ø2

DESCRIPTION: Soil Subsurface (>6 Inches)

DEPTH 12.ØØ TO 23.5Ø FT

FIELD OBSERVATIONS:

MULTIPLE SPOONS REQUIRED TO COLLECT SUFFICIENT SAMPLE VOLUME

DAD 7/28/94

SAMPLE TYPE:

- [X] GRAB
- [ ] TIME COMPOSITE
- [ ] QC RINSATE
- [ ] OTHER (SPECIFY)
- [ ] SPATIAL COMPOSITE
- [ ] QC TRIP BLANK
- [ ] QC FIELD BLANK

SAMPLE COLLECTED: [X] YES [ ] NO

SAP SAMPLING PROCEDURE WAS FOLLOWED: [X] YES [ ] NO FIELD CHANGE ORDER REFERENCE NO: NA

IF SAP WAS NOT FOLLOWED, SPECIFY WHAT DEVIATIONS WERE NECESSARY AND WHY (INCLUDE FIELD CHANGE ORDER REFERENCE NO.):

NA

RECORDED BY: [signature] SIGNATURE DATA CHECKED BY: [signature] 7/28/94 SIGNATURE

RECORDED BY: (SIGNATURE) QA CHECKED BY: (SIGNATURE)

SAMPLE ID NUMBER: B12003 p. 253

CONTAINER VOLUME (ml)	CONTAINER TYPE	METHOD NAME AND NUMBER ANALYSIS	PRESERVATIVES (TYPE/VOL)	C-O-C #	AIR BILL #	CONTAINER LOT #	LABORATORY
1-120	WM Glass	CLPVOA	Cool,4C	0AC016	8219960826	SEE CONTAINER LOT # LOG	COMPUC
1-250	AmbGlass	SVOC,PEST/PCB	Cool,4C				COMPUC
1-250	AmbGlass	EXPLOSIVES	Cool,4C				COMPUC
LC 7/20/94 2-250	WM Glass	ANIONS Fl,SO4,Cl,N02/N03	Cool,4C				COMPUC
1-250	WM Glass	METALS,Cyanide	Cool,4C				COMPUC
1-120	Poly	LANTHANIDES	Cool,4C				COMPUC
1-120	AmbGlass	TOTAL ORGANIC CARBON	Cool,4C				COMPUC
2-250	WM GLASS	RADS Ac,Sr,H3,GAMMA	NONE				COMPUC
2-250	WM GLASS	RADS Pu,Th,U	NONE				COMPUC
			LAST ENTRY				

SAMPLE ID'S RINSATE: ER0006 TRIP BLANK: ~~TB30~~ TBA016 LC 7/20/94 FIELD BLANK: AB0005 FIELD DUPLICATE: NA

RECORDED BY: (SIGNATURE) QA CHECKED BY: 7/28/94 (SIGNATURE)

EG & G MOUND
OUS OPS AREA
PHASE I

A7 SOIL BORING
LOG BOOK

B13-B15

SOIL BORING LOG BOOK

B13 B14 B15

PROJECT TITLE: EG&G MOUND OU5 OPERATIONAL AREA PHASE 1 RI/FS FIELD INVESTIGATIONS

WORK SITE: *MOUND PLANT*
Miamisburg, Ohio
OU5 Operational Area

ACTIVITY: *Mound OU5 Operational Area Phase 1 RI/FS Field Investigations*

CONTRACT #: *BOA 52264*
TASK ORDER: *34896*

PROJECT MANAGER: *Thomas Tank*
COMPANY NAME / ADDRESS: *Science Applications International Corporation*
4031 Colonel Glenn Hwy ,Dayton, Ohio 45431
TELEPHONE NUMBERS: *(513) 429-2699*

SUPERVISORS: *OU5 Manager: Alan Spesard (513)865-3859*
SAIC Proj. Manager: Thomas Tank (513)429-2699

EMERGENCY RESPONCE: *Police / Ambulance / Fire 911 or 865-4040*

PROCEDURES: *SOP 1.1, SOP 2.2, SOP 3.1, SOP 5.1, SOP 6.1, SOP 6.3*

START DATE: 7/5/94
END DATE: 7/27/94

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SOIL BORING

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1

PROJECT NO: 34896

PAGE	FIELD LOG	PAGE	FIELD LOG
1	B13 TASK ACTIVITY 7/5/94	31	NO ENTRY
2		32	
3		33	
4		34	B13001 SAMPLE LOG
5	B13 TASK ACTIVITY 7/6/94	35	
6		36	B13002 SAMPLE LOG
7		37	
8	B13 TASK ACTIVITY 7/7/94	38	B13003 SAMPLE LOG
9		39	
10	NO ENTRY	40	B13004 SAMPLE LOG
11	B13 BOREHOLE LOG	41	
12		42	B13005 SAMPLE LOG
13		43	
14		44	B13006 SAMPLE LOG
15		45	
16		46	NO ENTRY
17		47	
18	NO ENTRY	48	
19		49	
20		50	
21		51	
22		52	
23		53	
24		54	
25	CGI Monitoring Data B13	55	
26		56	
27	OVA Monitoring Data B13	57	
28		58	
29	BOREHOLE PLUGGING B13	59	
30	NO ENTRY	60	

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SOIL BORING
II

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1

PROJECT NO: 34896

PAGE	FIELD LOG	PAGE	FIELD LOG
61	NO ENTRY	91	NO ENTRY
62		92	
63		93	
64		94	
65		95	
66		96	
67		97	B13 GROUND WATER QUALITY
68		98	NO ENTRY
69		99	B13 GROUNDWATER QUALITY
70		100	NO ENTRY
71		101	ALKALINITY DATA; B13; W13001
72		102	NO ENTRY
73		103	STANDARD ELECT. CONDUCT.; B13; W13001
74	W13001 SAMPLE LOG	104	NO ENTRY
75		105	
76	BLANK	106	
77		107	TASK TEAM LOG; B14; 7/7/94
78	NO ENTRY	108	" ; " ; "
79		109	" ; " ; 7/8/94
80		110	" ; " ; "
81		111	" ; " ; "
82		112	" ; " ; "
83		113	" ; " ; "
84		114	" ; " ; 7/11/94
85		115	" ; " ; "
86		116	" ; " ; 7/12/94
87		117	BOREHOLE LOG; B14
88	W13101 SAMPLE LOG	118	" ; "
89		119	" ; "
90	NO ENTRY	120	" ; "

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B13 B14 B15

SOIL BORING III

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1

PROJECT NO: 34896

PAGE	FIELD LOG	PAGE	FIELD LOG
121	BOREHOLE LOG; B14	151	NO ENTRY
122	" ; "	152	
123	" ; "	153	
124	" ; "	154	
125	NO ENTRY	155	
126		156	
127		157	
128		158	
129		159	
130		160	
131	CGI MONITOR DATA; B14	161	
132	" ; "	162	
133	FID FIELD DATA; B14	163	
	" ; "	164	
135	BOREHOLE ABANDON LOG; B14	165	
136	NO ENTRY	166	
137	KEY SHEET	167	
138	NO ENTRY	168	
139	NO ENTRY	169	
140	SAMPLE LOG SHEET; B14001	170	SAMPLE LOG SHEET; B14021
141	" ; "	171	" ; "
142	" ; B14002	172	NO ENTRY
143	" ; "	173	
144	" ; B14003	174	
145	" ; "	175	
146	" ; B14004	176	
147	" ; "	177	
	NO ENTRY	178	
149		179	
150		180	SAMPLE LOG SHEET; W14001

B013 QAD

B014 QAD

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B13 B14 B15

SOIL BORING
IV

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1

PROJECT NO: 34896

PAGE	FIELD LOG	PAGE	FIELD LOG
181	SAMPLE LOG SHEET; W140001	211	NO ENTRY
182	NO ENTRY	212	NO ENTRY
183		213	TASK TEAM LOG SHEET; B14; 7/12/94
184		214	" ; " ; 7/13/94
185		215	TASK TEAM LOG SHEET; B15; 7/27/94
186		216	" ; " ; "
187		217	" ; " ; "
188		218	NO ENTRY
189		219	
190		220	
191		221	
192		222	
193		223	BOREHOLE LOG; B15
194	SAMPLE LOG SHEET; B14104 JMD	224	" ; "
195	" ; " 11-28-94	225	" ; "
196	NO ENTRY	226	NO ENTRY
197		227	
198		228	
199		229	
200		230	
201		231	
202		232	
203	GROUNDWATER QUAL. SPIG RECORD; B14	233	
204	" ; "	234	
205	" ; "	235	
206	NO ENTRY	236	
207	ALKALINITY DATA; B14	237	CGI MONITOR DATA; B15
208	NO ENTRY	238	NO ENTRY
209	STANDARD ELECT. CONDUCTIV. DATA; B14	239	FID FIELD DATA; B15
210	NO ENTRY	240	NO ENTRY

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PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 V PROJECT NO: 34896

PAGE	FIELD LOG	PAGE	FIELD LOG
241	BOREHOLE ABANDON LOG; B15	271	NO ENTRY
242	NO ENTRY	272	SAMPLE LOG SHEET; B15104
243	KEY SHEET	273	" ; "
244/~~245~~	NO ENTRY	274	NO ENTRY
~~245~~ ~~246~~	SAMPLE LOG SHEET; B15001	275	
~~246~~ 247	" ; "	276	
~~247~~ 248	" ; B15002	277	
~~248~~ 249	" ; "	278	
~~249~~ 250	" ; B15003	279	
~~250~~ 251	" ; "	280	
~~251~~ 252	" ; B15004	281	
~~252~~ 253	" ; "	282	
~~253~~	NO ENTRY	283	
254		284	
255		285	
256		286	
257		287	
258		288	
259		289	
260		290	
261		291	
262		292	
263		293	
264		294	
265		295	
266	SAMPLE LOG SHEET; B15101	296	
267	" ; "	297	
268	NO ENTRY	298	
269		299	
270		300	

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PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 PROJECT NO: 34896

PAGE	FIELD LOG	PAGE	FIELD LOG
301	NO ENTRY	331	
302		332	
303		333	
304		334	
305		335	
306		336	
307		337	
308		338	
309		339	
310		340	
311		341	
312		342	
313		343	
314		344	
315	standard elect cond. data; YSI MODEL 3000 #2179	345	
316	NO ENTRY	346	
317		347	NA
318		348	
319		349	
320		350	
321	END OF BOOK	351	
322		352	
323		353	
324		354	
325	NA	355	
326		356	
327		357	
328		358	
329		359	
330		360	

TASK TEAM ACTIVITY LOG SHEET — SOIL BORING

B13 P-1

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 — TASK NO.: 34896

Date (mm/dd/yy): 7/5/94 TIME: 0830 PAGE 1 OF 4

Task Team Members:

GREG LOIZER	SAIC	DENNIS SINK	BM
JEFF DEVAUGHN	SAIC	JIM HAGAR	BM

Narrative (include time and location):

0830 ARRIVE ON SITE LEFT MESSAGES FOR JOYCE KEITH AND HENRY

0900 JOYCE ON SITE WITH PERMIT

0920 HENRY ON SITE

0925 BEGIN DRILLING HENRY GETS HIS SAMPLE AT 0.5'

0930 TAKE B13001 OVA = Ø LEL = Ø

0937 PULL SPOON FROM 2-4' OVA = Ø LEL = Ø

0946 TAKE B13002 OVA = Ø LEL = Ø

0957 SECOND SPOON FOR B13002 FROM 6'-8'

1000 LARGE SHRED OF ALUMINUM SHEETING COMES UP IN AUGER CUTTINGS OVA = Ø LEL = Ø

1009 PULL SPOON FROM 8'-10' OVA = 40 PPM LEL = Ø
OVA/BZ = Ø PPM O_2 = 21%
OVA READING WITH METHANE TUP = 40 PPM

1010 TAKE SAFETY BREAK

1020 RESUME DRILLING

1030 TAKE B13003 OVA = 8-10 PPM BH LEL = Ø O_2 = 21%
OVA = Ø BZ

1037 PULL SPOON FROM 12-14' OVA = 6 PPM LEL = Ø

Daily Weather Conditions: A.M. 80°F HUMID SUNNY → 85°F @ 1000

P.M. NA

Recorded By [signature] QA Checked By [signature] 7/27/94

B0014 pad

TASK TEAM ACTIVITY LOG SHEET

SOIL BORING B13 p.2

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1

TASK NO.: 34896

Date (mm/dd/yy): 7/5/94 TIME: NA PAGE 2 OF 4

Task Team Members:

SEE PAGE 1

Narrative (include time and location):

1039 JOHN DAVIS GREG SHANK ON SITE

1048 PULL SECOND SPOON FOR B13003

1056 PULL SPOON FROM 14-16, OVA=1.0 LEL=0 USED TO FINISH B13003

1106 JOHN AND GREG LEAVE SITE

1112 PULL SPOON FROM 16-18 TO BEGIN B13004
OVA= 0 LEL= 0

1124 PULL SPOON FROM 18-20 FOR B13004
OVA= 12 PPM BH LEL= 0
OVA = 0 BZ ~~OVA = 0~~
OVA WITH METHANE TIP = 12 PPM

1130 NO RECOVERY IN SPOON FROM 18'-20' THEREFORE WE WILL SKIP 15'-20' SAMPLE INTERVAL

1138 TAKE B13004 FROM 20-22' OVA= 7 PPM LEL=0

1147 PULL SPOON FROM 22-24 OVA= 0 LEL=0

1200 BREAK FOR LUNCH

1305 BACK ON SITE, HENRY IS HERE DRILLERS ARE NOT.

1320 DRILLERS ON SITE

1334 TAKE B13005 OVA = 8-10 LEL=0 FROM 24'-26'

Daily Weather Conditions: A.M. 90°F SUNNY HUMID

P.M. NA

Recorded By [signature] QA Checked By [signature] 7/27/94

TASK TEAM ACTIVITY LOG SHEET

SOIL BORING B13 p.3

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1

TASK NO.: 34896

Date (mm/dd/yy): 7/5/94 TIME: NA PAGE 3 OF 4

Task Team Members:

SEE PAGE 1

Narrative (include time and location):

1346 PULL SPOON FROM 26-28 OVA=Ø LEL=Ø USED IN B13Ø05

1400 PULL SPOON FROM 28'-30' OVA=Ø LEL=Ø HIT WATER, LOOKS LIKE SAND LAYER ON TOP OF CLAY, POSSIBLY PERCHED TABLE

1414 PULL SPOON FROM 30-32 OVA=Ø LEL=Ø

1420 TAKE SAFETY BREAK

1422 TRIED TO GET WATER LEVEL BUT TD IS 31.1' AND TIP OF TAPE IS MUDDY. THEREFORE NO GROUNDWATER PRESENT, PERCHED WATER TABLE @ 28'-30'

1430 RESUME WORK

1442 PULL SPOON FROM 32-34 OVA=200PPM LEL=Ø O_2=20.6%

OVA BZ=Ø OVA WITH METHANE TIP = 200 PPM

TAKE VOA ONLY B13Ø06

1445 DRILLERS TAKE A BREAK

1500 RESUME WORK

1506 PULL SPOON FROM 34'-36' OVA=Ø LEL=Ø SPOON WET

1521 WATER STATIC @ 28.2' ASK JOHN IF HE WANTS WATER SAMPLE

1539 JOHN CALLS BACK TO CONFIRM WATER SAMPLE

Daily Weather Conditions: A.M. NA

P.M. 93°F HUMID SUNNY

Recorded By [signature] QA Checked By [signature] 7/27/94

TASK TEAM ACTIVITY LOG SHEET

SOIL BORING B13 P.4

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1

TASK NO.: 34896

Date (mm/dd/yy): 7/5/94 TIME: NA PAGE 4 OF 4

Task Team Members:

SEE PAGE 1

Narrative (include time and location):

1545 DRILLERS PUT WELL SCREEN IN HOLE, THEY NEED TO RUN TO THE DECON PAD TO GET ANOTHER 10' SECTION

1550 JOHN PICKS UP SAMPLES

1552 WATER STATIC @ 27.5' TD = 34.0'

1600 DRILLERS LEAVE SITE

1601 PURGE VOLUME = $\pi \frac{d^2}{4} \times h \times 7.48$

1607 WATER @ 24.6 = $\pi \frac{(0.67)}{4} \times \quad \times 7.48$

1619 WATER @ 23.9

LOOKS LIKE IT WON'T STABILIZE FOR A WHILE SO WE WILL TACKLE IT IN THE MORNING.

1630 LEAVE SITE TWA = 2.24

LAST ENTRY

Daily Weather Conditions: A.M. NA

P.M. 95°F 50% HUMIDITY

Recorded By [signature] QA Checked By [signature] 7/27/94

TASK TEAM ACTIVITY LOG SHEET

SOIL BORING B13 p.5

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1

TASK NO.: 34896

Date (mm/dd/yy): 7/6/94 TIME: 0720 PAGE 1 OF 3

Task Team Members:

GREG LODER	SAIC	DENNIS SINK	BM
JEFF DEVAUGHN	SAIC	DWIGHT WORK	BM
		JIM HAGAR	BM

Narrative (include time and location):

0720 ARRIVE ON SITE TO TAKE W15001

0732 OVA = > 1000 PPM IN BH LEL=0 O_2 = 21%

OVA = > 1000 PPM IN BH WITH METHANE TIP

0740 WATER STATIC @ 19.2' TD = 34.0'

PURGE VOLUME = $\pi \frac{d^2}{4} \times h \times 7.48 \cdot 3$

$= \pi \frac{(0.67)^2}{4} \times 14.8 \times 7.48 \times 3$

= 39 GALS. × 3

= 117 GALS. * THIS PURGE VOLUME WAS NOT USED SEE NOTE ON PAGE 8.

0814 WATER @ 28.3' FIVE GALS. PURGED

0821 pH = 6.89 DO = 2.1 mg/l

TEMP = 17.6 °c COND = 309

ORP = -108.7 @ 16.5 GALS

0828 WATER @ 25.8' @ 17 GALS PURGED

0839 WATER @ 26.5' @ 19 GALS PURGED

Daily Weather Conditions: A.M. 80°F HUMID SUNNY

P.M. NA

Recorded By [signature] QA Checked By [signature] 7/27/94

B0114 add

TASK TEAM ACTIVITY LOG SHEET

SOIL BORING B13 P.6

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1

TASK NO.: 34896

Date (mm/dd/yy): 7/6/94 TIME: NA PAGE 2 OF 3

Task Team Members:

SEE PAGE 5

Narrative (include time and location):

0842 pH = 6.99 DO = 1.7
TEMP = 17.0 COND = 304
ORP = -110.2 @ 190 GALS.

0851 pH = 6.93 DO = 1.9
TEMP = 17.0 COND = 296
ORP = -93.5 @ 210 GALS

0853 WATER @ 26.2' @ 210 GALS

0858 BEGIN TAKING W13001 AND W13101

1019 FINISH SAMPLING

1020 pH = 6.96 DO = 2.6
TEMP = 17.9 COND = 291
ORP = -96.2 WATER @ = 29.2'

1030 LEAVE JEFF AT SITE TO TAKE SAMPLES TO TRAILER

1042 BACK ON SITE, HENRY ON-SITE REMOVE WELL SCREEN RESUME DRILLING TO 36' FOR NEXT INTERVAL

1101 PULL SPOON FROM 36-38 OVA = 0 LEL = 0

1125 PULL SPOON FROM 38-40 OVA = 0 LEL = 0

Daily Weather Conditions: A.M. 80°F HUMID SUNNY

P.M. NA

Recorded By [signature] QA Checked By [signature] 4/27/94

TASK TEAM ACTIVITY LOG SHEET

SOIL BORING B13 P. 7

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1

TASK NO.: 34896

Date (mm/dd/yy): 7/6/94 TIME: NA PAGE 3 OF 3

Task Team Members:

SEE PAGE 5

Narrative (include time and location):

1136 PULL SPOON FROM 40'-42' OVA = Ø LEL = Ø
1150 PULL SPOON FROM 42'-44' OVA = Ø LEL = Ø
1200 LUNCH
1310 RESUME DRILLING, DIRECTED TO GO TO BEDROCK
1331 PULL SPOON FROM 44'-46' OVA = Ø LEL = Ø
1348 PULL SPOON FROM 46'-48' OVA = Ø LEL = Ø
SENT JIM TO SHOP FOR MORE AUGERS, ONLY 60' ON SITE
1440 PULL SPOON FROM 48'-50' OVA = Ø LEL = Ø
1445 TAKE BREAK
1430 BACK TO WORK
1447 PULL SPOON FROM 50'-52' OVA = Ø LEL = Ø
1453 PULL SPOON FROM 52'-54' OVA = Ø LEL = Ø
1508 PULL SPOON FROM 54'-56' OVA = Ø LEL = Ø
1514 PULL SPOON FROM 56'-58' OVA = Ø LEL = Ø
1528 PULL SPOON FROM 58'-60 OVA = Ø LEL = Ø
JIM BACK WITH AUGERS HIT ANOTHER SATURATED
ZONE @ 59.5' DECISION WS NOT TO DO A WATER SAMPLE
1537 PULL SPOON FROM 60'-62' OVA = Ø LEL = Ø
1550 LEAVE SITE TWA = Ø.22

Daily Weather Conditions: A.M. 87°F SUNNY HUMID

P.M. 96°F HUMID SUNNY RELENTLESS
41% HEAT INDEX 110°F

Recorded By [signature] QA Checked By [signature] 7/27/94

B013 pg 7

TASK TEAM ACTIVITY LOG SHEET

SOIL BORING B13 p.8

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1

TASK NO.: 34896

Date (mm/dd/yy): 7/7/94 TIME: 0710 PAGE 1 OF 2

Task Team Members:

GREG LODER SAIC	DENNIS SINK BM
JEFF DENAGHAN SAIC	DWIGHT WORK BM
	JIM HAGAR BM

Narrative (include time and location):

0710 ON SITE, DRILLERS HERE @ 0700

0715 HENRY ON-SITE

0720 RESUME DRILLING CONT TO 62'-64' INTERVAL

0726 PULL SPOON FROM 62-64 OVA=Ø LEL=Ø

0734 " " " 64-66 OVA=Ø LEL=Ø

0749 " " " 66-68 OVA=Ø LEL=Ø

0758 " " " 68-70 OVA=Ø LEL=Ø

0826 " " " 70-72 OVA=Ø LEL=Ø

HIT BEDROCK @ 70'

0846 BEGIN GROUTING

* NOTE ON PURGE VOLUME: ORIGINAL PURGE CALCULATION WAS NOT USED DUE TO ARTESIAN CONDITION AND PURPOSE OF WELL PURGING BEFORE SAMPLING. WATER LEVEL CONTINUOUSLY DROPPED DURING PURGING, STABILIZING AROUND 26' THEREFORE THE PURGE VOLUME IS:

$$= \frac{\pi d^2}{4} \times h \times 7.48$$

$$= \frac{\pi (0.67)^2}{4} \times 8' \times 7.48 = 21 \text{ GALS.} \times 3$$

Daily Weather Conditions: A.M. 75°F HUMID SUNNY

P.M. NA

Recorded By [signature] QA Checked By [signature] 7/27/94

TASK TEAM ACTIVITY LOG SHEET

SOIL BORING B13 p. 9

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1

TASK NO.: 34896

Date (mm/dd/yy): 7/7/94 TIME: NA PAGE 2 OF 2

Task Team Members:

SEE PAGE 8

Narrative (include time and location):

1120 FINISH GROUTING

1130 LEAVE SITE BREAK FOR LUNCH DRILLERS WILL DECON BEFORE GOING TO LUNCH TWA = 0.31

LAST ENTRY

Daily Weather Conditions: A.M. 90°F HUMID SUNNY

P.M. NA

Recorded By [signature] QA Checked By [signature] 7/27/94

B013 pad

BOREHOLE LOG (SOIL)

SOIL BORING B13 p.11

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1

PROJECT NO: 34896

JHD 7/27/94

FACILITY CODE: NA MND21

LOCATION ID: B13

COORDINATES (FT):

NORTH NA EAST NA

GROUND ELEVATION (FT MSL)

LOCATION TYPE: NA BH JHD 7/27/94

COMMENTS: SATURATED ZONES @ 26.75' - 29.5', AND 34-37.5, AND 59.5-60'. 2.5 BARRELS OF CUTTINGS 15 GALS OF WATER

DRILLER CODE: NA BOWS JHD 7/27/94

COMPLETION DATE 7/7/1994

DIAMETER (IN): 8

DEPTH (FTFD): 70.0

CONSTRUCTION METHOD: B

ACCEPTANCE CODE: NA A JHD 7/27/94

GROUNDWATER LEVELS

DATE	TIME	DEPTH (FT)
7/5/94	1521	28.2
	1552	27.5
	1607	24.6
	1619	23.9
7/6/94	0740	19.2

LOCATION DESCRIPTION

40' OFF THE SOUTHEAST CORNER OF BLDG 66 (TANKS) NEAR GAS PUMPS IN PARKING LOT

JHD 7/27/94

LITHOLOGIC LOG

LOGGER CODE: NA SAIC

DEPTH (FT)	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE RETAINED	SAMPLE METHOD	SAMPLE ID	BLOW COUNT (PER 6 IN)	N VALUE	USCS	VISUAL DESCRIPTIONS
0	0-2'	BOWL	FULL	O	B13001	NA	NA	SM	SILT, COARSE SAND, AND
									GRAVEL, DRY, LOOSE
									10 YR 4/2 DARK GREYISH BROWN
3	2-4	1.3	0	U	NA	10/14/19/22	41	SM	2-3' SAME AS ABOVE
								SC	3-4' SILT, CLAY, AND COARSE
									SAND, SOME GRAVEL
									DAMP SOFT SLIGHTLY PLASTIC
									N/3 VERY DARK GRAY
									PIECES OF GLASS AND SMALL
									CHUNCK OF METAL IN CUTTINGS
									IRON STAINING

ACCEPTANCE CODES: A - ACCEPTABLE, R - RECONNAISSANCE, U - UNACCEPTABLE, N - NOT DETERMINED

CONSTRUCTION METHODS:

A - AIR ROTARY
B - BORED OR AUGERED
C - CABLE - TOOL
D - DUG
- HYDRAULIC - ROTORY
J - JETTED
P - AIR - PERCUSSION
R - REVERSE ROTERY
T - TRENCHING
V - DRIVEN
W - DRIVE AND WASH
Z -OTHER (SPECIFY)

SAMPLE METHODS:

A - AUGER CUTTINGS
S - 2" O.D. 1.38" I.D. DRIVE SAMPLES
U - 3" O.D. 2.42" I.D. TUBE SAMPLES
T - 3" O.D. THIN-WALLED SHELBY TUBE
O - OTHER (SPECIFY)

COMPLETE BOLDED DATA FOR ENTRY INTO TIMS

7/5/94 FORM COMPLETED BY / DATE

7/27/94 TECHNICAL REVIEWER / DATE

BOREHOLE LOG (SOIL)

SOIL BO

B13 p.12

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1

PROJECT NO:

JRD 7/27/94

JRD 7/27/94

FACILITY CODE: ~~NA~~ MND21

DRILLER CODE: ~~NA~~ BOWS

LOCATION ID: B13

COMPLETION DATE 7/7/1994

LITHOLOGIC LOG

DEPTH (FT)	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE RETAINED	SAMPLE METHOD	SAMPLE ID	BLOW COUNT (PER 6 IN)	N VALUE	USCS	VISUAL DESCRIPTIONS
	4-6	0.3	0.3	U	B13002	10/15/15/14	29	SC	SAME AS ABOVE
	SECOND SPOON								
6.5	6-8	1.1	1.1	U	B13002	10/6/10/19	29	SC	6-6.5 SAME AS ABOVE
								CL	6.5-8 CLAY, TRACE
									GRAVEL. DRY FIRM
									PLASTIC IRON STAINING
									5 GY 5/1 GREENISH GRAY
	8-10	1.0	Ø	U	NA	12/17/26/18	44	CL	SAME AS ABOVE
	10-12	1.2	1.2	U	B13003	5/7/41/20	61	CL	SAME AS ABOVE
13.5	12-14	0.3	0.2	U	B13003	5/14/22/20	42	CL	SAME AS ABOVE
	SECOND SPOON							GC	13.5-14 GRAVEL SOME
									CLAY FINES ANGULAR
									LIMESTONE POORLY SORTED
14	14-16	1.0	1.0	U	B13003	14/20/A/30	49	CL	CLAY TRACE COARSE SAND
									TRACE GRAVEL DAMP
									FIRM PLASTIC 5 GY 5/1
									GREENISH GRAY
17	16-18	0.9	0.9	U	~~B13004~~ NA JL 7/5/94	20/10/26/20	46	CL	16.-17 SAME AS ABOVE
								GC	17-18 CLAY SOME GRAVEL
									MOIST STICKY PLASTIC
									SOFT 10 YR 4/4 DARK
									YELLOWISH BROWN

COMPLETE BOLDED DATA FOR ENTRY INTO TIMS

7/5/94 — FORM COMPLETED BY / DATE

7/27/94 — TECHNICAL REVIEWER

BOREHOLE LOG (SOIL)

SOIL BORING B13 P-13

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1

PROJECT NO: 34896

FACILITY CODE: NA MND21 MD 7/27/94

LOCATION ID: B13

DRILLER CODE: NA BOWS MD 7/27/94

COMPLETION DATE 7/7/1994

LITHOLOGIC LOG

DEPTH (FT)	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE RETAINED	SAMPLE METHOD	SAMPLE ID	BLOW COUNT (PER 6 IN)	N VALUE	USCS	VISUAL DESCRIPTIONS
	18-20	Ø	Ø	U	NA	10/11/16/30	46		SKIP 15-20' SAMPLE INTERVAL
									DUE TO INSUFFICIENT RECOVERY
20.	20-22	0.8	0.7	U	B13004	20/31/19/10	29	GC	20-20.5 GRAVEL SOME CLAY FINES
									ANGULAR POORLY SORTED
20.5								CL	20.5-22 CLAY TRACE GRAVEL
									MOIST SOFT VERY PLASTIC
									5 GY 5/1 GREENISH GRAY
									GRAVEL LAYER CONTAINS SOME
									GROUNDWATER
	22-24	1.3	1.3	U	B13004	16/26/19/14	33	CL	22-23.5 SAME AS ABOVE
23.5								CL	23.5-24 CLAY DAMP SOFT
									PLASTIC 2.5 Y 2.6/1 BLACK
	24-26	1.0	1.0	U	B13005	10/14/10/20	30	CL	SAME AS ABOVE
	26-28	2.0	2.0	U	B13005	15/19/12/22	34	CL	26-26.75 SAME AS ABOVE
26.75								SW	26.75-28 SAND, FINE, TRACE
									SILT AND CLAY WELL SORTED
									WET SOFT 2.5 Y 5/4
									LIGHT OLIVE BROWN
	28-30	1.2	Ø	U	NA	9/12/30/61	91	SW	28-29.5 SAME AS ABOVE BUT
	* PERCHED WATER TABLE 28'-30'								SATURATED
29.5								CL	29.5-30 CLAY SOME COARSE
									SAND, DAMP SOFT PLASTIC
									N/3 VERY DARK GREY

COMPLETE BOLDED DATA FOR ENTRY INTO TIMS

FORM COMPLETED BY / DATE 7/5/94

TECHNICAL REVIEWER / 7/27/94

BOREHOLE LOG (SOIL)

SOIL BORIN
B13 p.14

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1

PROJECT NO: 3486

DHD 7/27/94

FACILITY CODE: ~~NA~~ MNDZI

LOCATION ID: B13

DHD 7/27/94 Page 4 of 7

DRILLER CODE: ~~NA~~ BOWS

COMPLETION DATE 7 / 7 /1994

LITHOLOGIC LOG

DEPTH (FT)	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE RETAINED	SAMPLE METHOD	SAMPLE ID	BLOW COUNT (PER 6 IN)	N VALUE	USCS	VISUAL DESCRIPTIONS
	30-32	0.9	Ø	U	NA	11/31/62/30	42	CL	SAME AS ABOVE
	32-34	.4	0.1	U	B13006	11/18/45/70	115	CL	SAME AS ABOVE BUT MORE DRY, FIRM OVA = 200 PPM TOOK VOA SAMPLE ONLY
34	34-36	Ø.1	Ø	U	NA	22/45/52/95	127	GP	JUST A LITTLE BIT OF GRAVEL IN TIP OF SPOON POORLY SORTED ANGULAR, SATURATED ZONE TAKE WATER SAMPLE
*	SATURATED		ZONE	*					
7/6/94									
	36-38	0.4	Ø	U	NA	29/32/67/70	157	GP	36-37.5 SAME AS ABOVE GRAVEL WITH CLAY FINES (TRACE)
37.5								CL	37.5-38 CLAY SOME COARSE SAND FIRM DRY SLIGHTLY PLASTIC NB VERY DARK GREY ADD SOME CORE TO B01023
	~~38-40~~	GL 7/6/94							
	38-40	1.6	Ø	U	NA	43/13/21/40	61	CL	SAME AS ABOVE
	40-42	1.4	Ø	U	NA	25/41/48/45	93	CL	SAME AS ABOVE
	42-44	2.0	Ø	U	NA	34/26/20/19	39	CL	42-42.5 SAME AS ABOVE
42.5								CL	42.5-44 CLAY SOME COARSE SAND, DAMP, SLIGHTLY PLASTIC FIRM
	44-46	2.0	Ø	U	NA	15/40/42/39	81	CL	44-45 SAME AS ABOVE
45								SP	45-46 COARSE SAND SOME GRAVEL, POORLY SORTED ANGULAR

COMPLETE BOLDED DATA FOR ENTRY INTO TIMS

7/6/94 FORM COMPLETED BY / DATE

7/27/94 TECHNICAL REVIEWER /

BOREHOLE LOG (SOIL)

SOIL BORING B13 P-15

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1

PROJECT NO: 3489C

JKD 7/27/94 JKD 7/27/94

FACILITY CODE: NA MND21

DRILLER CODE: NA BOWS

LOCATION ID: B13

COMPLETION DATE 7/7/1994

LITHOLOGIC LOG

DEPTH (FT)	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE RETAINED	SAMPLE METHOD	SAMPLE ID	BLOW COUNT (PER 6 IN)	N VALUE	USCS	VISUAL DESCRIPTIONS
	44-46 (CONT.)								DAMP, LOOSE 10 YR 4/3 BROWN
46	46-48	1.9	Ø	U	NA	25/14/40/78	118	SP	SAME AS ABOVE BUT COLOR CHANGE: 2.5 Y 4/4 OLIVE BROWN
	48-50	1.4	Ø	U	NA	66/50/46/70	116	SP	SAME AS ABOVE
50	50-52	1.6	Ø	U	NA	47/45/41/10A/5	142	SP	COARSE SAND AND GRAVEL DAMP, LOOSE, POORLY SORTED, ANGULAR TO SUB ANGULAR GRAVEL UP TO 36 mm 2.5 Y 5/1 GRAY
	52-54	0.2	Ø	U	NA	60/38/11/9	20	SP	SAME AS ABOVE, PLUS SMALL FRAGMENT OF WEATHERED SHALE IN TIP OF SHOE
	54-56	1.4	Ø	U	NA	41/16/6/15	31	SP	SAME AS ABOVE
56	56-58	1.6	Ø	U	NA	17/18/40/30	70	SC	56-57.5 COARSE SAND AND GRAVEL TRACE SILT AND CLAY, WET, LOOSE ANGULAR TO SUB-ANGULAR GRAVEL TO 25 mm 2.5 4/1 DARK GRAY POORLY SORTED
57.5	NA	NA	NA	U	NA	NR	NA	SP	57.5-58 COARSE SAND AND GRAVEL TRACE SILT WET LOOSE ANGULAR TO ROUNDED GRAVEL TO 20 mm POORLY SORTED 10 YR 4/3 BROWN

COMPLETE BOLDED DATA FOR ENTRY INTO TIMS

7/6/94 FORM COMPLETED BY / DATE

7/27/94 TECHNICAL REVIEWER /

BOREHOLE LOG (SOIL)

SOIL BORING B13 p.16

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1

PROJECT NO: 2489

DHD 7/27/94

DHD 7/27/94 Page 6 of 7

FACILITY CODE: ~~NA~~ MNDZI

LOCATION ID: B13

DRILLER CODE: ~~NA~~ BOWS

COMPLETION DATE 7 / 7 /1994

LITHOLOGIC LOG

DEPTH (FT)	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE RETAINED	SAMPLE METHOD	SAMPLE ID	BLOW COUNT (PER 6 IN)	N VALUE	USCS	VISUAL DESCRIPTIONS
	58-60	1.0	Ø	U	NA	17/18/40/50	70	SP	58-59.5 SAME AS ABOVE
59.5	* SATURATED		ZONE		*			GP	59.5-60 GRAVEL, SOME
									COARSE SAND, TRACE SILT
									AND CLAY, ANGULAR TO SUB-
									ANGULAR TO 30 mm, POORLY
									SORTED, LOOSE, SATURATED
									10YR 4/1 DARK GRAY
	60-62	0.9	Ø	U	NA	14/43/48/81	129	GP 60-61	SAME AS ABOVE
61								R	61-62 WEATHERED SHALE
									CLAY AND TRACE FINE SAND
									FINES VERY SOFT HIGHLY
									WEATHERED SHALE, STAINED,
									FRACTURES @ 90° N/S GRAY
7/7/94									
	62-64	0.7		U	NA	70/100/4	170	R	62-63 SAME AS ABOVE
63								GC	63-64 GRAVEL AND CLAY SOME
									COARSE SAND ANGULAR
									POORLY SORTED UP TO 40 mm
									5Y 5/3 LIGHT OLIVE BROWN
	64-66	0.4	Ø	U	NA	100/5	100/5	GC	SAME AS ABOVE
	66-68	0.3	Ø	U	NA			GC	SAME AS ABOVE
	68-70	0.3	Ø	U	NA			GC	SAME AS ABOVE WITH ROCK
									FRAGMENTS. SLIGHTLY WEA[illegible]
									LIMESTONE RANDOM FRACTURES
									WITH CLAY FINES

COMPLETE BOLDED DATA FOR ENTRY INTO TIMS

7/7/94 — FORM COMPLETED BY / DATE

7/27/94 — TECHNICAL REVIEWER /

BOREHOLE LOG (SOIL)

SOIL BORING B13 P.17

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1

PROJECT NO: 34896

TMD 7/27/94 TMD 7/27/94

FACILITY CODE: NA MND21

DRILLER CODE: NA BOWS

LOCATION ID: B13

COMPLETION DATE 7/7/1994

LITHOLOGIC LOG

DEPTH (FT)	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE RETAINED	SAMPLE METHOD	SAMPLE ID	BLOW COUNT (PER 6 IN)	N VALUE	USCS	VISUAL DESCRIPTIONS
70	70-72	Ø	Ø	U	NA	NA	NA	R	BEDROCK @ 70'
				LAST ENTRY					

COMPLETE BOLDED DATA FOR ENTRY INTO TIMS

7/7/94 FORM COMPLETED BY / DATE

7/27/94 TECHNICAL REVIEWER /

COMBUSTIBLE GAS INDICATOR (CGI) MONITORING DATA — SOIL BORING B13 p.25

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 — PROJECT NO: 34896

ITY CODE: ~~NA~~ MNDZ1 — LOG DATE: 7/5/94

LOGGER CODE: 7/27/94 ~~NA~~ SAIC — FIELD REP: GLODER

CGI MANUFACTURER: INDUSTRIAL SCIENTIFIC — CGI MODEL NO.: MX251

SERIAL NO.: 5033 — CALIBRATION DATE/TIME: 7/5/94 0730

ACCEPTANCE CODE: ~~NA~~ A JMD 7/29/94 — BATTERY CONDITION GOOD

CALIBRATION GAS (%LEL) TYPE PENTANE CONCENTRATION 50 % LEL CYLINDER SERIAL NO 39525

CALIBRATION GAS (PPM) TYPE NA CONCENTRATION NA PPM CYLINDER SERIAL NO NA

COMMENTS: NONE

LOCATION ID OR DESCRIPTION	COORDINATES FT NORTH	COORDINATES FT EAST	MONITORING TIME (HH:MM)	LOCATION TYPE	% LOWER EXPLOSIVE LIMIT	PPM	% OXYGEN
3	NA	NA	0930	BH	0	NA	21
			0937		0		21
			0946		0		21
			0957		0		21
			1000		0		21
			1009		0		21
			1030		0		21
			1037		0		21
			1056		0		21
			1112		0		21
			1124		0		21
			1138		0		21
			1147		0		21
			1334		0		21
			1346		0		21

ACCEPTANCE CODES: A - ACCEPTABLE, R - RECONNAISSANCE, U - UNACCEPTABLE, N - NOT DETERMINED

LOCATION TYPES: BH - BOREHOLE SL - SURFACE LOCATION TP - TEST PIT WL - WELL

COMPLETE BOLDED DATA FOR ENTRY INTO TIMS

7/5/94 FORM COMPLETED BY / DATE

7/27/94 TECHNICAL REVIEWER / DATE

B013 pad

COMBUSTIBLE GAS INDICATOR (CGI) MONITORING DATA — SOIL BORIN

B13 p.26

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 — PROJECT NO: 348

FACILITY CODE: JHD ~~NA~~ MND21 — LOG DATE: 7/5/94

LOGGER CODE: 7/27/94 ~~NA~~ SAIC — FIELD REP: GLODER

CGI MANUFACTURER: INDUSTRIAL SCIENTIFIC — CGI MODEL NO.: MX251

SERIAL NO.: 5033 — CALIBRATION DATE/TIME: 7/5/94 0730

ACCEPTANCE CODE: ~~NA~~ A JHD 7/27/94 — BATTERY CONDITION GOOD

CALIBRATION GAS (%LEL) TYPE PENTANE CONCENTRATION 50 % LEL CYLINDER SERIAL NO 39525

CALIBRATION GAS (PPM) TYPE NA CONCENTRATION NA PPM CYLINDER SERIAL NO NA

COMMENTS: NONE

LOCATION ID OR DESCRIPTION	COORDINATES FT NORTH	COORDINATES FT EAST	MONITORING TIME (HH:MM)	LOCATION TYPE	% LOWER EXPLOSIVE LIMIT	PPM	% OXYGEN
B13	NA	NA	400	BH	Ø	NA	21
	↓		1414	↓	Ø	↓	21
	↓		1442	↓	Ø	↓	20.6
	↓	↓	1506	↓	Ø	↓	21
FOR REMAINDER OF READINGS SEE PAGES 5 - 8							
			LAST ENTRY				

ACCEPTANCE CODES: A - ACCEPTABLE, R - RECONNAISSANCE, U - UNACCEPTABLE, N - NOT DETERMINED

LOCATION TYPES: BH - BOREHOLE SL - SURFACE LOCATION TP - TEST PIT WL - WELL

COMPLETE BOLDED DATA FOR ENTRY INTO TIMS

7/5/94 FORM COMPLETED BY / DATE

7/27/94 TECHNICAL REVIEWER / DATE

FLAME IONIZATION DETECTOR FIELD DATA — SOIL BORING B13 P.27

PROJECT NAME: EG&G MOUND OU5 OPERAIONAL AREA, PHASE 1 — PROJECT NO: 34896

ITY CODE: ~~NA~~ MND21 — LOG DATE: 7/5/94

OCATION ID B13 — LOCATION TYPE: BH, ~~BZ~~ 7/27/94

OGGER CODE: ~~NA~~ SAIC 7/27/94 — FIELD REP: GLODER

LAME IONIZATION DETECTOR INSTRUMENT:

MANUFACTURER: FOXBORO — MODEL NO.: 128

SERIAL NO.: 2241 — 7/27/94

DATE/TIME CALIBRATION 7/5/94 0730 — ACCEPTANCE CODE: ~~NA~~ A

CALIBRATION GASES			
TYPE/CYLINDER ID NO.		CONCENTRATION (PPM)	
1	35323	1	100
2	NA	2	NA

OMMENTS NONE

TIME (HH:MM)	SAMPLE ID	OBSERVED READING (ppm)					DRILLING DEPTH (ft)	COMMENTS
		DH	HS	BZ	D	OT		
[illegible]	B13001	0	NA	NR	NA	NA	2	NONE
0951	NA	0					4	
0946	B13002	0					6	
0957	B13002	0					8	
1000	NA	0					10	
1009	NA	40		0			10	
1030	B13003	8-10		0			12	
1037	"	6		0			14	
1056	"	1.0		0			16	
1112	B13004	0		NR			18	
1124	"	12		0			20	
1138	"	7		0			22	
1147	"	0		NR			24	
1334	B13005	8-10		0			26	
1346	"	0		NR			28	

ACCEPTANCE CODES: A - ACCEPTABLE, R - RECONNAISSANCE, U - UNACCEPTABLE, N - NOT DETERMINED

OCATION TYPES:	SB - SAMPLE BOTTLE	OBSERVED READING:	
H - BOREHOLES	L - SURFACE LOCATION	DH - DOWNHOLE	BZ - BREATHING ZONE
P - ST PIT	WL - WELL	HS - HEADSPACE	D - DURING DRILLING (BZ)
S - OIL SAMPLE	OT - OTHER (EXPLAIN)		OT - OTHER

OMPLETE BOLDED DATA FOR ENTRY INTO TIMS

7/5/94 — FORM COMPLETED BY / DATE

7/27/94 — TECHNICAL REVIEWER / DATE

B013 pad

FLAME IONIZATION DETECTOR FIELD DATA

SOIL BORING B13 P.28

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1

PROJECT NO: 3489

FACILITY CODE: MNA21

LOG DATE: 7/5/94

LOCATION ID: B13

LOCATION TYPE: BH, BZ

LOGGER CODE: TPD 7/27/94 ~~NA~~ SAIC

FIELD REP: GLODEL

FLAME IONIZATION DETECTOR INSTRUMENT:

MANUFACTURER: FOXBORO

MODEL NO.: 128

SERIAL NO.: 2241

DATE/TIME CALIBRATION 7/5/94 0730

ACCEPTANCE CODE: A ~~NA~~ TPD 7/27/94

CALIBRATION GASES	
TYPE/CYLINDER ID NO.	CONCENTRATION (PPM)
1 35323	1 100
2 NA	2 NA

COMMENTS REFILLED H_2 AT LUNCH

TIME (HH:MM)	SAMPLE ID	OBSERVED READING (ppm)					DRILLING DEPTH (ft)	COMMENTS
		DH	HS	BZ	D	OT		
1400	NA	0	NA		NA	NA	30	NONE
1414	NA	0					32	
1442	B13006	200		0			34	
1506	NA						36	
FOR REMAINDER OF READINGS SEE PAGES 5-8 LAST ENTRY								

ACCEPTANCE CODES: A - ACCEPTABLE, R - RECONNAISSANCE, U - UNACCEPTABLE, N - NOT DETERMINED

LOCATION TYPES:		OBSERVED READING:	
BH - BOREHOLES	SB - SAMPLE BOTTLE	DH - DOWNHOLE	BZ - BREATHING ZONE
TP - TEST PIT	L - SURFACE LOCATION	HS - HEADSPACE	D - DURING DRILLING (BZ)
SS - SOIL SAMPLE	WL - WELL		OT - OTHER
	OT - OTHER (EXPLAIN)		

COMPLETE BOLDED DATA FOR ENTRY INTO TIMS

7/5/94 FORM COMPLETED BY / DATE

7/27/94 TECHNICAL REVIEWER / DATE

BOREHOLE OR WELL PLUGGING / ABANDONMENT — SOIL BORING

B13 p. 29

PROJECT: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 — PROJECT NO.: 34896

SITE ID NUMBER: B13 DATE PLUGGED 7 / 7 / 94

SITE COORDINATES: N: NA E: NA DEPTH BLS (ft) 70.0'

TYPE OF CASING: NA

CASING DIAMETER (ID) (in.) NA GROUND ELEVATION (ft msl) NA

SCREENED ELEVATION (ft msl) NA

GEOLOGIC MATERIAL AT SCREEN NA

AMOUNT OF CASING REMOVED (ft) NA

PLUGGING MATERIAL BENTONITE GROUT

APPROX. VOLUME OF PLUGGING MATERIAL (cu ft.) ~~9T~~ 24.5 GL 7/12/94

PLUGGING METHOD TREMIED THROUGH AUGERS

REMARKS 3 50 lb BAGS CEMENT AND 1/2 BAG BENTONITE IN 55 GAL DRUM FILLED WITH WATER IS ONE BATCH GROUT

RECORDED BY: [signature] (Signature) QA CHECKED BY: [signature] 7/27/94 (Signature)

B014 pad

SAMPLE LOG SHEET

PROJECT NAME: Mound Operational Area **PROJECT NO:** 2680 P. 34

SAMPLE ID NUMBER: B13001 DATE COLLECTED (MM/DD/YY): ~~0930~~ AL 7/5/94 TIME (HH:MM): 0930

SAMPLING -

LOCATION CODE: MNDOA

DESCRIPTION: MOUND OPERATIONAL AREA

POINT CODE: B13

DESCRIPTION: OPERAIONAL AREA BORING #13

SAMPLE -

MEDIA CODE: 01

DESCRIPTION: Soil Surface (0 - 6 Inches)

DEPTH 0.00 TO ~~5.00~~ AL 7/5/94 2.00 FT

34

SAMPLE TYPE:

- [X] GRAB
- [ ] SPATIAL COMPOSITE
- [ ] TIME COMPOSITE
- [ ] QC TRIP BLANK
- [ ] QC RINSATE
- [ ] QC FIELD BLANK
- [ ] OTHER (SPECIFY) _____

FIELD OBSERVATIONS: NONE

SAMPLE COLLECTED: [X] YES [ ] NO

SAP SAMPLING PROCEDURE WAS FOLLOWED: [X] YES [ ] NO FIELD CHANGE ORDER REFERENCE NO: NA

IF SAP WAS NOT FOLLOWED, SPECIFY WHAT DEVIATIONS WERE NECESSARY AND WHY (INCLUDE FIELD CHANGE ORDER REFERENCE NO.):

NA

RECORDED BY: _____ (SIGNATURE) QA CHECKED BY: _____ 7/27/94

RECORDED BY: _____ (SIGNATURE) QA CHECKED BY: _____ 7/27/94 (SIGNATURE)

SAMPLE ID NUMBER: B13001

CONTAINER VOLUME (ml)	CONTAINER TYPE	METHOD NAME AND NUMBER ANALYSIS	PRESERVATIVES (TYPE/VOL)	C-O-C #	AIR BILL #	CONTAINER LOT #	LABORATORY
1-120	WM Glass	CLPVOA	Cool,4C	OAC009	8219960125	SEE CONTAINER LOT # LOG	COMPUC
1-250	AmbGlass	SVOC,PEST/PCB	Cool,4C				COMPUC
1-250	AmbGlass	EXPLOSIVES	Cool,4C				COMPUC
3-250	WM Glass	ANIONS Fl,SO4,Cl,N02/N03	Cool,4C				COMPUC
1-250	WM Glass	METALS,Cyanide	Cool,4C				COMPUC
1-120	Poly	LANTHANIDES	Cool,4C				COMPUC
1-120	AmbGlass	TOTAL ORGANIC CARBON	Cool,4C				COMPUC
2-250	WM GLASS	RADS Ac,Sr,H3,GAMMA	NONE				COMPUC
2-250	WM GLASS	RADS Pu,Th,U	NONE				COMPUC
		CAST ENTRY					

SAMPLE ID'S RINSATE: E[illegible] TRIP BLANK: TBA009 FIELD BLANK: AB[illegible]3 FIELD DUPLICATE: NA

RECORDED BY: _____ (SIGNATURE) QA CHECKED BY: _____ 7/27/94 (SIGNATURE)

SAMPLE LOG SHEET

PROJECT NAME: Mound Operational Area **PROJECT NO:** 2680 P. 36

SAMPLE ID NUMBER: B13002 DATE COLLECTED (MM/DD/YY): 7/5/94 TIME (HH:MM): 0946

SAMPLING -

LOCATION CODE: MNDOA

DESCRIPTION: MOUND OPERATIONAL AREA

POINT CODE: B13

DESCRIPTION: OPERAIONAL AREA BORING #13

SAMPLE -

MEDIA CODE: 02

DESCRIPTION: Soil Subsurface (>6 Inches)

DEPTH 5.00 TO 10.00 FT

36

SAMPLE TYPE:

- [X] GRAB
- [ ] TIME COMPOSITE
- [ ] QC RINSATE
- [ ] OTHER (SPECIFY)
- [ ] SPATIAL COMPOSITE
- [ ] QC TRIP BLANK
- [ ] QC FIELD BLANK

FIELD OBSERVATIONS: NONE

SAMPLE COLLECTED: [X] YES [ ] NO

SAP SAMPLING PROCEDURE WAS FOLLOWED: [X] YES [ ] NO FIELD CHANGE ORDER REFERENCE NO: N/A

IF SAP WAS NOT FOLLOWED, SPECIFY WHAT DEVIATIONS WERE NECESSARY AND WHY (INCLUDE FIELD CHANGE ORDER REFERENCE NO.):

NA

RECORDED BY: [signature] SIGNATURE QA CHECKED BY: [signature] 7/27/94

RECORDED BY: [signature] (SIGNATURE) QA CHECKED BY: [signature] 7/27/94 (SIGNATURE)

SAMPLE ID NUMBER: B13ØØ2

CONTAINER VOLUME (ml)	CONTAINER TYPE	METHOD NAME AND NUMBER ANALYSIS	PRESERVATIVES (TYPE/VOL)	C-O-C #	AIR BILL #	CONTAINER LOT #	LABORATORY
1-12Ø	WM Glass	CLPVOA	Cool,4C	OACØØ9	8219960125	SEE CONTAINER LOT #LOG	COMPUC
1-25Ø	AmbGlass	SVOC,PEST/PCB	Cool,4C				COMPUC
1-25Ø	AmbGlass	EXPLOSIVES	Cool,4C				COMPUC
GL 7/27/94 2-25Ø	WM Glass	ANIONS Fl,SO4,Cl,NØ2/NØ3	Cool,4C				COMPUC
1-25Ø	WM Glass	METALS,Cyanide	Cool,4C				COMPUC
1-12Ø	Poly	LANTHANIDES	Cool,4C				COMPUC
1-12Ø	AmbGlass	TOTAL ORGANIC CARBON	Cool,4C				COMPUC
2-25Ø	WM GLASS	RADS Ac,Sr,H3,GAMMA	NONE				COMPUC
2-25Ø	WM GLASS	RADS Pu,Th,U	NONE				COMPUC
37		LAST ENTRY					

SAMPLE ID'S RINSATE: ER#ØØ3 TRIP BLANK: TBAØØ9 FIELD BLANK: AB0003 FIELD DUPLICATE: NA

RECORDED BY: [signature] (SIGNATURE) QA CHECKED BY: [signature] 7/27/94 (SIGNATURE)

SAMPLE LOG SHEET

PROJECT NAME: Mound Operational Area **PROJECT NO:** 2680 P. 38

SAMPLE ID NUMBER: B13ØØ3 DATE COLLECTED (MM/DD/YY): 7/5/94 TIME (HH:MM): ~~1030~~ AL 7/6/94 ~~1138~~ AL 7/5/94 1030

SAMPLING -

LOCATION CODE: MNDOA

DESCRIPTION: MOUND OPERATIONAL AREA

POINT CODE: B13

DESCRIPTION: OPERAIONAL AREA BORING #13

SAMPLE -

MEDIA CODE: Ø2

DESCRIPTION: Soil Subsurface (>6 Inches)

DEPTH 1Ø.ØØ TO 16.ØØ FT

38

SAMPLE TYPE:

- [X] GRAB
- [ ] TIME COMPOSITE
- [ ] QC RINSATE
- [ ] OTHER (SPECIFY)
- [ ] SPATIAL COMPOSITE
- [ ] QC TRIP BLANK
- [ ] QC FIELD BLANK

FIELD OBSERVATIONS: NONE

SAMPLE COLLECTED: [X] YES [ ] NO

SAP SAMPLING PROCEDURE WAS FOLLOWED: [X] YES [ ] NO FIELD CHANGE ORDER REFERENCE NO: NA

IF SAP WAS NOT FOLLOWED, SPECIFY WHAT DEVIATIONS WERE NECESSARY AND WHY (INCLUDE FIELD CHANGE ORDER REFERENCE NO.):

NA

RECORDED BY: [signature] (SIGNATURE) QA CHECKED BY: [signature] 7/27/94

RECORDED BY: _____ (SIGNATURE) QA CHECKED BY: _____ (SIGNATURE)

SAMPLE ID NUMBER: B13ØØ3 P.39

CONTAINER VOLUME (ml)	CONTAINER TYPE	METHOD NAME AND NUMBER ANALYSIS	PRESERVATIVES (TYPE/VOL)	C-O-C #	AIR BILL #	CONTAINER LOT #	LABORATORY
1-12Ø	WM Glass	CLPVOA	Cool,4C	OAC009	8219960125	SEE CONTAINER LOT # LGG	COMPUC
1-25Ø	AmbGlass	SVOC,PEST/PCB	Cool,4C				COMPUC
1-25Ø	AmbGlass	EXPLOSIVES	Cool,4C				COMPUC
1-25Ø	WM Glass	ANIONS Fl,SO4,Cl,NØ2/NØ3	Cool,4C				COMPUC
1-25Ø	WM Glass	METALS,Cyanide	Cool,4C				COMPUC
1-12Ø	Poly	LANTHANIDES	Cool,4C				COMPUC
1-12Ø	AmbGlass	TOTAL ORGANIC CARBON	Cool,4C				COMPUC
2-25Ø	WM GLASS	RADS Ac,Sr,H3,GAMMA	NONE				COMPUC
2-25Ø	WM GLASS	RADS Pu,Th,U	NONE				COMPUC
		LAST ENTRY					

SAMPLE ID'S RINSATE: ERØØ03 TRIP BLANK: TBØ09 FIELD BLANK: ABØØ03 FIELD DUPLICATE: NA

RECORDED BY: _____ (SIGNATURE) QA CHECKED BY: _____ 7/27/94 (SIGNATURE)

SAMPLE LOG SHEET

PROJECT NAME: Mound Operational Area **PROJECT NO:** 2680 P. 40

SAMPLE ID NUMBER: B13ØØ4 DATE COLLECTED (MM/DD/YY): 7/5/94 TIME (HH:MM): 1138

SAMPLING -

LOCATION CODE: MNDOA

DESCRIPTION: MOUND OPERATIONAL AREA

POINT CODE: B13

DESCRIPTION: OPERAIONAL AREA BORING #13

SAMPLE -

MEDIA CODE: Ø2

DESCRIPTION: Soil Subsurface (>6 Inches)

DEPTH 20.ØØ TO 25.ØØ FT

SAMPLE TYPE:

- [X] GRAB
- [ ] TIME COMPOSITE
- [ ] QC RINSATE
- [ ] OTHER (SPECIFY)
- [ ] SPATIAL COMPOSITE
- [ ] QC TRIP BLANK
- [ ] QC FIELD BLANK

FIELD OBSERVATIONS: SKIPPED 15'-20' INTERVAL DUE TO ~~DUE~~ AL 7/8/94 INSUFFICIENT RECOVERY

SAMPLE COLLECTED: [X] YES [ ] NO

SAP SAMPLING PROCEDURE WAS FOLLOWED: [X] YES [ ] NO FIELD CHANGE ORDER REFERENCE NO: NA

IF SAP WAS NOT FOLLOWED, SPECIFY WHAT DEVIATIONS WERE NECESSARY AND WHY (INCLUDE FIELD CHANGE ORDER REFERENCE NO.):

NA

RECORDED BY: [signature] QA CHECKED BY: [signature] 9/27/94

RECORDED BY: [signature] (SIGNATURE) QA CHECKED BY: [signature] 7/27/94 (SIGNATURE)

SAMPLE ID NUMBER: B13ØØ4 P. 41

CONTAINER VOLUME (ml)	CONTAINER TYPE	METHOD NAME AND NUMBER ANALYSIS	PRESERVATIVES (TYPE/VOL)	C-O-C #	AIR BILL #	CONTAINER LOT #	LABORATORY
1-12Ø	WM Glass	CLPVOA	Cool,4C	JNCØØ9	8219960125	SEE CONTAINER LOT # LOG	COMPUC
1-25Ø	AmbGlass	SVOC,PEST/PCB	Cool,4C				COMPUC
1-25Ø	AmbGlass	EXPLOSIVES	Cool,4C				COMPUC
2-25Ø	WM Glass	ANIONS Fl,SO4,Cl,NØ2/NØ3	Cool,4C				COMPUC
1-25Ø	WM Glass	METALS,Cyanide	Cool,4C				COMPUC
1-12Ø	Poly	LANTHANIDES	Cool,4C				COMPUC
1-12Ø	AmbGlass	TOTAL ORGANIC CARBON	Cool,4C				COMPUC
2-25Ø	WM GLASS	RADS Ac,Sr,H3,GAMMA	NONE				COMPUC
2-25Ø	WM GLASS	RADS Pu,Th,U	NONE				COMPUC
			LAST ENTRY				

SAMPLE ID'S RINSATE: ERØØØ3 TRIP BLANK: TBA Ø09 FIELD BLANK: ABØØØ3 FIELD DUPLICATE: NA

RECORDED BY: [signature] (SIGNATURE) QA CHECKED BY: [signature] 7/27/94 (SIGNATURE)

SAMPLE LOG SHEET

PROJECT NAME: Mound Operational Area **PROJECT NO:** 2680 P. 42

SAMPLE ID NUMBER: B13005 DATE COLLECTED (MM/DD/YY): 7/5/94 TIME (HH:MM): 1334

SAMPLING -

LOCATION CODE: MNDOA

DESCRIPTION: MOUND OPERATIONAL AREA

POINT CODE: B13

DESCRIPTION: OPERAIONAL AREA BORING #13

SAMPLE -

MEDIA CODE: 02

DESCRIPTION: Soil Subsurface (> 6 Inches)

DEPTH 25.00 TO 28.00 FT

SAMPLE TYPE:

- [X] GRAB
- [ ] TIME COMPOSITE
- [ ] QC RINSATE
- [ ] OTHER (SPECIFY)
- [ ] SPATIAL COMPOSITE
- [ ] QC TRIP BLANK
- [ ] QC FIELD BLANK

FIELD OBSERVATIONS: NONE

SAMPLE COLLECTED: [X] YES [ ] NO

SAP SAMPLING PROCEDURE WAS FOLLOWED: [X] YES [ ] NO FIELD CHANGE ORDER REFERENCE NO: NA

IF SAP WAS NOT FOLLOWED, SPECIFY WHAT DEVIATIONS WERE NECESSARY AND WHY (INCLUDE FIELD CHANGE ORDER REFERENCE NO.):

NA

RECORDED BY: [signature] (SIGNATURE) QA CHECKED BY: [signature] 7/27/94

47

RECORDED BY: _____ (SIGNATURE) QA CHECKED BY: _____ 7/27/94 (SIGNATURE)

SAMPLE ID NUMBER: B13005

P. 43

CONTAINER VOLUME (ml)	CONTAINER TYPE	METHOD NAME AND NUMBER ANALYSIS	PRESERVATIVES (TYPE/VOL)	C-O-C #	AIR BILL #	CONTAINER LOT #	LABORATORY
1-120	WM Glass	CLPVOA	Cool,4C	OAC009	8219960125	SEE CONTAINER LOT # LOG	COMPUC
1-250	AmbGlass	SVOC,PEST/PCB	Cool,4C				COMPUC
1-250	AmbGlass	EXPLOSIVES	Cool,4C				COMPUC
2-250	WM Glass	ANIONS Fl,SO4,Cl,NO2/NO3	Cool,4C				COMPUC
1-250	WM Glass	METALS,Cyanide	Cool,4C				COMPUC
1-120	Poly	LANTHANIDES	Cool,4C				COMPUC
1-120	AmbGlass	TOTAL ORGANIC CARBON	Cool,4C				COMPUC
2-250	WM GLASS	RADS Ac,Sr,H3,GAMMA	NONE				COMPUC
2-250	WM GLASS	RADS Pu,Th,U	NONE				COMPUC
		LAST ENTRY					

SAMPLE ID'S RINSATE: ER0003 TRIP BLANK: TB009 FIELD BLANK: AB0003 FIELD DUPLICATE: NA

RECORDED BY: _____ (SIGNATURE) QA CHECKED BY: _____ 7/27/94 (SIGNATURE)

SAMPLE LOG SHEET

PROJECT NAME: Mound Operational Area PROJECT NO: 2680 P. 44

SAMPLE ID NUMBER: B13006 DATE COLLECTED (MM/DD/YY): 7/5/92 TIME (HH:MM): 1442

SAMPLING -

LOCATION CODE: MNDOA

DESCRIPTION: MOUND OPERATIONAL AREA

POINT CODE: B13

DESCRIPTION: OPERAIONAL AREA BORING #13

SAMPLE -

MEDIA CODE: 02

DESCRIPTION: Soil Subsurface (> 6 Inches)

DEPTH 32.00 TO 34.00 FT

44

SAMPLE TYPE:

- [X] GRAB
- [ ] TIME COMPOSITE
- [ ] QC RINSATE
- [ ] OTHER (SPECIFY)
- [ ] SPATIAL COMPOSITE
- [ ] QC TRIP BLANK
- [ ] QC FIELD BLANK

FIELD OBSERVATIONS: VOA ONLY OVA = 200 PPM

SAMPLE COLLECTED: [X] YES [ ] NO

SAP SAMPLING PROCEDURE WAS FOLLOWED: [X] YES [ ] NO FIELD CHANGE ORDER REFERENCE NO: NA

IF SAP WAS NOT FOLLOWED, SPECIFY WHAT DEVIATIONS WERE NECESSARY AND WHY (INCLUDE FIELD CHANGE ORDER REFERENCE NO.):

NA

RECORDED BY: (SIGNATURE) QA CHECKED BY: 7/27/94

RECORDED BY: _____ (SIGNATURE) QA CHECKED BY: _____ 7/27/84 (SIGNATURE)

SAMPLE ID NUMBER: B13006

P. 45

CONTAINER VOLUME (ml)	CONTAINER TYPE	METHOD NAME AND NUMBER ANALYSIS	PRESERVATIVES (TYPE/VOL)	C-O-C #	AIR BILL #	CONTAINER LOT #	LABORATORY
1-120	WM Glass	CLPVOA	Cool,4C	OAC009	8219960125	SEE CONTAINER LOT # LOG	COMPUC
~~1-250~~	~~AmbGlass~~	~~SVOC,PEST/PCB~~	~~Cool,4C~~				~~COMPUC~~
~~1-250~~	~~AmbGlass~~	~~EXPLOSIVES~~	~~Cool,4C~~				~~COMPUC~~
~~1-250~~	~~WM Glass~~	~~ANIONS Fl,SO4,Cl,NO2/NO3~~	~~Cool,4C~~				~~COMPUC~~
~~1-250~~	~~WM Glass~~	~~METALS,Cyanide~~	~~Cool,4C~~				~~COMPUC~~
~~1-120~~	~~Poly~~	~~LANTHANIDES~~	~~Cool,4C~~				~~COMPUC~~
~~1-120~~	~~AmbGlass~~	~~TOTAL ORGANIC CARBON~~	~~Cool,4C~~				~~COMPUC~~
~~2-250~~	~~WM-GLASS~~	~~RADS Ac;Sr;H3;GAMMA~~	~~NONE~~				~~COMPUC~~
~~2-250~~	~~WM GLASS~~	~~RADS Pu;Th;U~~	~~NONE~~				~~COMPUC~~
		LAST ENTRY					

SAMPLE ID'S RINSATE: ER0003 TRIP BLANK: TBA009 FIELD BLANK: AB0003 FIELD DUPLICATE: NA

RECORDED BY: _____ (SIGNATURE) QA CHECKED BY: _____ 7/27/84 (SIGNATURE)

SAMPLE LOG SHEET

PROJECT NAME: Mound Operational Area PROJECT NO: 2680 P. 74

SAMPLE ID NUMBER: W13001 DATE COLLECTED (MM/DD/YY): 7/6/94 TIME (HH:MM): 0858

SAMPLING -

LOCATION CODE: MNDOA

DESCRIPTION: MOUND OPERATIONAL AREA

POINT CODE: B13

DESCRIPTION: OPERAIONAL AREA BORING #13

SAMPLE -

MEDIA CODE: 69

DESCRIPTION: Other Groundwater

DEPTH NA TO NA NA

74

SAMPLE TYPE:

- [X] GRAB
- [ ] TIME COMPOSITE
- [ ] QC RINSATE
- [ ] OTHER (SPECIFY) _____
- [ ] SPATIAL COMPOSITE
- [ ] QC TRIP BLANK
- [ ] QC FIELD BLANK

FIELD OBSERVATIONS: TAKEN WITH BAILER
SATURATED ZONE @ 34'-37.5'

SAMPLE COLLECTED: [X] YES [ ] NO

JHD 7/26/94

SAP SAMPLING PROCEDURE WAS FOLLOWED: [X] YES [X] NO FIELD CHANGE ORDER REFERENCE NO: 05-NP-012

IF SAP WAS NOT FOLLOWED, SPECIFY WHAT DEVIATIONS WERE NECESSARY AND WHY (INCLUDE FIELD CHANGE ORDER REFERENCE NO.):

PACKER NOT USED ON WELL SCREEN. SEE ABOVE TRPC

RECORDED BY: [signature] QA CHECKED BY: [signature] 7/27/94

(SIGNATURE) (SIGNATURE)

SAMPLE ID NUMBER: W13001

P.75

CONTAINER VOLUME (ml)	CONTAINER TYPE	METHOD NAME AND NUMBER ANALYSIS	PRESERVATIVES (TYPE/VOL)	C-O-C #	AIR BILL #	CONTAINER LOT #	LABORATORY
2-40	Glass	CLPVOA	HCL to pH<2,4C	GAC010	8219960081	SEE CONTAINER LOT # LOG	COMPUC
2-40	Glass	CLPVOA - 8010	HCL to pH<2,4C				COMPUC
2-1000	AmbGlass	CLP SVOC	Cool,4C				COMPUC
2-1000	AmbGlass	CLP PEST / PCB	Cool,4C				COMPUC
2-1000	AmbGlass	EXPLOSIVES	Cool,4C				COMPUC
1-1000	Poly	METALS	HNO3 to pH<2,4C				COMPUC
1-1000	Poly	CYANIDE	NaOH to pH>12,4C				COMPUC
1-1000	Poly	ANIONS Fl,SO4,Cl	Cool,4C				COMPUC
1-1000	Poly	NO2/NO3	H2SO4 to pH<2,4C				COMPUC
1-1000	Poly	TOTAL NIT/TOTAL PHOS	H2SO4 to pH<2,4C				COMPUC
1-1000	AmbGlass	TOTAL ORGANIC CARBON	H2SO4 to pH<2,4C				COMPUC
1-1000	Poly	TOTAL SUSPENDED SOLIDS	Cool,4C				COMPUC
1-1000	Poly	TOTAL DISSOLVED SOLIDS	Cool,4C				COMPUC
1-1000	Poly	ALKALINITY	Cool,4C				COMPUC
2-1000	Poly	RADS Pu,Th,U,Am	HNO3 TO PH<2				COMPUC
2-1000	Poly	RADS Ac,Ra,Sr,GAMMA	HNO3 TO PH<2				COMPUC
1-1000	Glass	TRITIUM	NONE				COMPUC
1-1000	POLY	LANTHANIDES	HNO3 TO PH<2				COMPUC

7/6/94 SL

SAMPLE ID'S RINSATE: ER0004 TRIP BLANK: TBA010 FIELD BLANK: AB0002 FIELD DUPLICATE: W13101

RECORDED BY: (SIGNATURE) QA CHECKED BY: 7/27/94 (SIGNATURE)

SAMPLE LOG SHEET

PROJECT NAME: PROJECT NO: P. 88

SAMPLE ID NUMBER: W13101 DATE COLLECTED (MM/DD/YY): 7/6/94 TIME (HH:MM): 0858

SAMPLING -

LOCATION CODE: MNDOA

DESCRIPTION: MOUND OPERATIONAL AREA

POINT CODE: B13

DESCRIPTION: OPERATIONAL AREA BORING # 13

SAMPLE -

MEDIA CODE: 69

DESCRIPTION: OTHER GROUNDWATER

DEPTH NA TO NA NA

FIELD OBSERVATIONS: TAKEN WITH BAILER
SATURATED ZONE @ 34-37.5'

88 SAMPLE TYPE:

- [X] GRAB
- [ ] TIME COMPOSITE
- [ ] QC RINSATE
- [ ] OTHER (SPECIFY)
- [ ] SPATIAL COMPOSITE
- [ ] QC TRIP BLANK
- [ ] QC FIELD BLANK

SAMPLE COLLECTED: [X] YES [ ] NO

THD 7/26/94

SAP SAMPLING PROCEDURE WAS FOLLOWED: [X] YES [X] NO FIELD CHANGE ORDER REFERENCE NO: 05-NP-012

IF SAP WAS NOT FOLLOWED, SPECIFY WHAT DEVIATIONS WERE NECESSARY AND WHY (INCLUDE FIELD CHANGE ORDER REFERENCE NO.):

PACKER NOT USED ON WELL POINT. SEE ABOVE TRPC

RECORDED BY: (SIGNATURE) QA CHECKED BY: 7/27/94 (SIGNATURE)

(SIGNATURE) (SIGNATURE)

[redacted]

SAMPLE LOG SHEET

SAMPLE ID NUMBER: W13Ø1 P. 89

CONTAINER VOLUME (ml)	CONTAINER TYPE	METHOD NAME AND NUMBER ANALYSIS	PRESERVATIVES (TYPE/VOL)	C-O-C #	AIR BILL #	CONTAINER LOT #	LABORATORY
2 - 4Ø	GLASS	CLP - VOA	HCl to pH<2, 4C	~~GAC010~~ GAC010 GL 7/6/94	8219960081	SEE CONTAINER LOT # LOG	COMPUC
2 - 4Ø	GLASS	CLP-VOA - 8Ø1Ø	HCl to pH<2, 4C				
2 - 1ØØØ	AmbGLASS	CLP SVOC	4C				
2 - 1ØØØ	AmbGLASS	CLP PEST / PCB	4C				
2 - 1ØØØ	AmbGLASS	EXPLOSIVES	4C				
1 - 1ØØØ	POLY	METALS	HNO_3 to pH<2, 4C				
1 - 1ØØØ	POLY	CYANIDE	NaOH to pH>12, 4C				
1 - 1ØØØ	POLY	ANIONS Fl, SO_4, Cl	4C				
1 - 1ØØØ	POLY	NO_2 / NO_3	H_2SO_4 to pH<2, 4C				
1 - 1ØØØ	POLY	TOTAL NIT / TOTAL PHOS	H_2SO_4 to pH<2, 4C				
1 - 1ØØØ	AmbGLASS	TOTAL ORGANIC CARBON	H_2SO_4 to pH<2, 4C				
1 - 1ØØØ	POLY	TOTAL SUSPENDED SOLIDS	4C				
1 - 1ØØØ	POLY	TOTAL DISSOLVED SOLIDS	4C				
1 - 1ØØØ	POLY	ALKALINITY	4C				
2 - 1ØØØ	POLY	RADS Pu, Th, U, Am	HNO_3 to pH<2, ~~4C~~				
2 - 1ØØØ	POLY	RADS Ac, Ra, Sr, GAMMA	HNO_3 to pH<2				
1 - 1ØØØ	GLASS	TRITIUM	NONE				
1 - 1ØØØ	POLY	LANTHANIDES	HNO_3 to pH<2				

SAMPLE ID'S RINSATE: ERØØØ4 TRIP BLANK: TBAØ1Ø FIELD BLANK: AB0002 FIELD DUPLICATE: W13ØØ1

RECORDED BY: (SIGNATURE) QA CHECKED BY: 7/27/94 (SIGNATURE)

88

GROUNDWATER QUALITY SAMPLING RECORD

SOIL BORING B13 p. 97

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1

PROJECT NO: 34896

JHD 7/27/94

PAGE 1 OF 1

FACILITY CODE: ~~NA~~ MND21

LOT CONTROL NO.: NA

LOCATION ID: 313

SAMPLE TYPE: F

SAMPLE ID: W13001 W13101

ACCEPTANCE CODE: ~~NA~~ A JHD 7/27/94

LOG DATE: 7/6/94

LOGGER CODE: ~~NA~~ SAIC

ANALYICAL LAB CODE: ~~NA~~ COMP JHD 7/27/94

INITIAL GROUNDWATER DEPTH (FT): 19.2'

SAMPLE DEPTH (FT): 26.2

SAMPLING PERIOD: START 0868

COMPLETE 1019

SAMPLING METHOD: B

DATE SENT: 7/6/94

COMMENTS ARTESIAN CONDITION

FINAL PARAMETER MEASUREMENTS:

POTENTIAL OF HYDROGEN	pH	S.U.	6.96
SPECIFIC CONDUCTANCE	Ec	umhos/cm	291
REDOX POTENTIAL	Eh	mvolts	-96.2
TEMPERATURE	TMP	°C	17.9
ALKALINITY ($CaCO_3$)	ALK	mg/l	369
DISSOLVED OXYGEN	DO	mg/l	2.6

TIME	TOTAL VOLUME WITHDRAWN (GALS)	TOTAL VOLUME WITHDRAWN (Bore Volume)	pH	Ec (umhos/cm)	TEMP (°C)	COMMENTS
0821	16.5	0.78	6.89	309	17.6	NONE
0842	19.0	0.90	6.99	304	17.0	↓
0851	20.0	1.00	6.93	296	17.0	
		LAST ENTRY				

ACCEPTANCE CODES: A - ACCEPTABLE, R - RECONNAISSANCE, U - UNACCEPTABLE, N - NOT DETERMINED

SAMPLE TYPES: F - FIELD, R - REPLICATE, UNOWN, A - ACID BLANK

SAMPLING METHODS: BP - BLADDER PUMP, PP - PERISTALIC PUMP, G - GRAB, B - BAILER, AL - AIR-LIFT SAMPLER, SL - SUCTION LIFT PUMP, SP - SUBMERSIBLE PUMP

COMPLETE BOLDED DATA FOR ENTRY INTO TIMS

7/6/94 FORM COMPLETED BY / DATE

7/27/94 TECHNICAL REVIEWER / DATE

B0174 pad

GROUNDWATER QUALITY SAMPLING RECORD

SOIL BORING B13 p. 99

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1

PROJECT NO.: 34896

JHD 7/27/94

PAGE 1 OF 1

FACILITY CODE: ~~NA~~ MND21

LOCATION ID: B13

LOG DATE: 7/6/94

BORE VOL CALCULATION (GAL)

$\frac{d^2\pi}{4}$ $(h_1 - h_2)$ X 7.48

DEPTH OF WELL (h2) (ft): 34.0'

DEPTH TO WATER (h1) (ft): 19.2'

WELL DIAMETER (ft): 0.67

ONE BORE VOLUME (GAL): 21.39 (ARTESIAN CONDITION)

SCREENED INTERVAL (ft): 10

FIELD REP: GLODER

INSTRUMENT(S) USED: pH CONDUCTIVITY, TEMP, REDOX, D.O., OVA, LEL

SAMPLING INFORMATION

WITDRAWL METHOD: BAILER

FILTER SIZE: NA

THERMOMETER ID: NA

Ec METER ID: 1239

pH METER ID: SB 8 ~~3250~~ 2025

PUMP ID: NA

ALKALINITY KIT ID: HACH MODEL # 16900-01

CALIBRATION INFORMATION

TIME OF LAST Ec CALIBRATION: NA

TIME OF pH CALIBRATION: 0700

FOR STANDARD pH 7, INSTRUMENT READING: 7.01

FOR STANDARD pH 4, INSTRUMENT READING: NR

FOR STANDARD pH 10, INSTRUMENT READING: 10.02

Eh OF CALIBRATION SOLUTION: NA

Eh READING IN CALIBRATION SOLUTION AFTER MEASUREMENT: NA

TEMP OF CALIBRATION SOLUTION (°C): NA

SHIPPING INFORMATION

LAB(S) SHIPPED TO:	COMPUCHEM	NA	NA
DATE(S) SHIPPED:	7/6/94	↓	↓
METHOD OF SHIPMENT:	FEDEX	↓	↓

COMMENTS: NONE

B013 pg 99

GROUNDWATER QUALITY SAMPLING RECORD

SOIL BORING B13 P. 101

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1

PROJECT NO.: 34896

PAGE 1 OF 1

FACILITY CODE: ~~15A~~ GL 7/6/94 W13001

LOCATION ID: B13, 0856

LOG DATE: 7/6/94

ERROR AT 4.50: $\frac{X1 - X2}{XS}$ X 100 = 4.1 %

1st = 4.1 %

2nd = 4.1 %

INITIAL pH 7.05

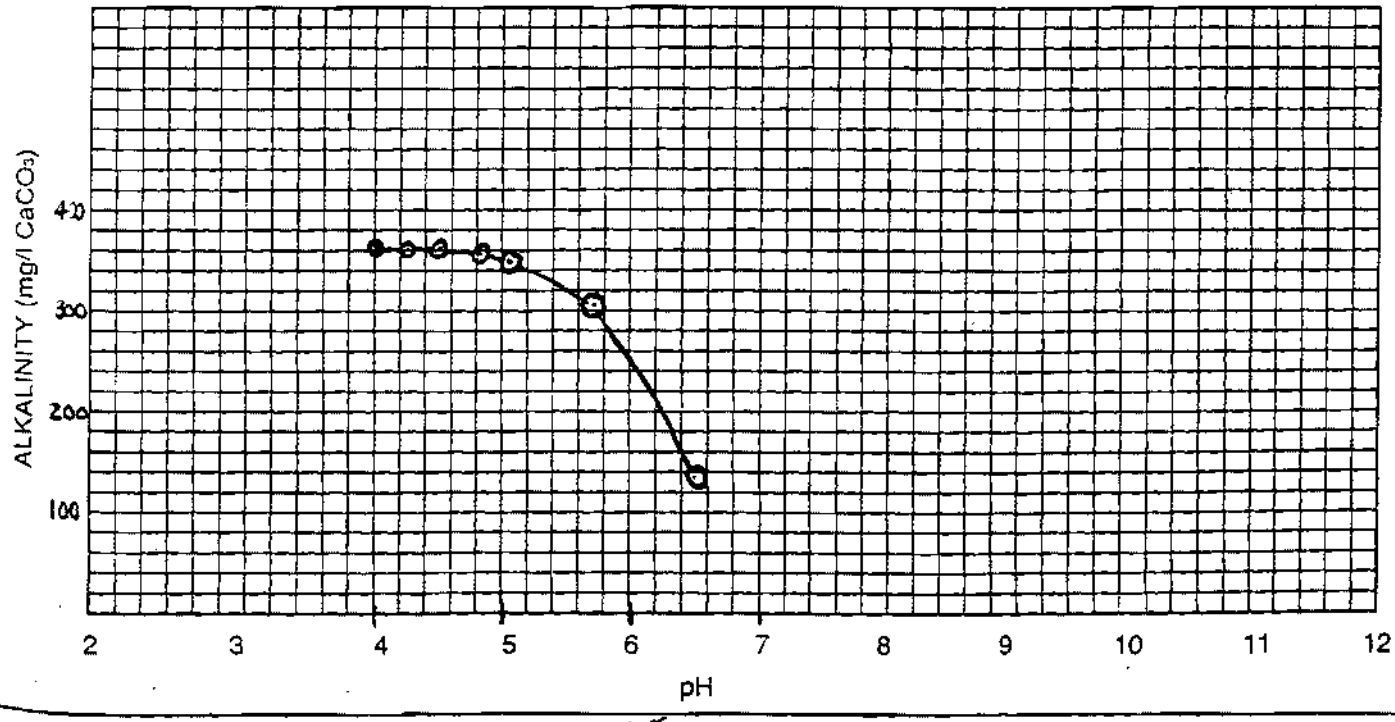
pH CHECK AFTER TITRATION

7.00 = 7.00

4.00 = 4.08

SLOPE = 98.7

pH	ALKALINITY (mg/l $CaCO_3$) 1st	2nd	3rd
8.90	NR	NR	NR
8.60			
8.30			
8.05			
7.80			
7.50			
6.50	139	@6.51 158	
5.70	304	@5.71 316	
~~5.10~~ 5.02	350	369	
~~4.80~~ 4.81	356	375	
~~4.50~~ 4.51	363	@4.49 378	
4.25	367	380	
4.00	369	383	



STANDARD ELECTRICAL CONDUCTIVITY DATA

SOIL BORING B13 P. 1Ø3

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1

PROJECT NO: 34896

Y CODE: MND21 LOGGER CODE: SAIC

DATE: 7/28/94 7/6/94 THD 7/29/94 ACCEPTANCE CODE: A

MANUFACTURER/Ec METER ID: VSI MODEL 3000 ; SN 91D029512 HAZCO # 2179

ELECTRICAL CONDUCTIVITY OF KNOWN SOLUTIONS AT 25° C:	
KNOWN (mg/l KCl)	Ec (meter)
1000 µmhos/cm	1147
NA	NA
NA	NA

Ec	TEMPERATURE (ºC) LAB THERMOMETER	TEMPERATURE (ºC) (Ec METER)
NR	0	NR
↓	1	↓
	2	
Ø.877	3	16.8
Ø.887	4	16.1
Ø.899	5	16.2
Ø.9Ø8	6	16.2
Ø.923	7	16.3
Ø.966	8	16.5
Ø.975	9	16.7
Ø.98Ø	10	16.8
Ø.982	11	17.Ø
Ø.986	12	17.1
Ø.99Ø	13	17.2
Ø.995	14	17.4
1.ØØ1	15	17.6
1.Ø19	16	17.8
1.Ø3Ø	17	18.Ø
1.Ø36	18	18.4
1.Ø48	19	18.7
1.Ø62	20	19.2
1.Ø77	21	19.7
1.Ø86	22	7/29/94 2Ø.1
1.Ø99	23	THD ~~21.8~~ 2Ø.7
1.128	24	THD ~~22~~ 21.8
1.147	25	7/29/94 22.5

BOLDED DATA FOR ENTRY INTO TIMS

7/29/94
FORM COMPLETED BY / DATE

7/29/94
TECHNICAL REVIEWER / DATE

B014 Qad

TASK TEAM ACTIVITY LOG SHEET

SOIL BORING B14 P.107

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1

TASK NO.: 34896

Date (mm/dd/yy): 7/7/94 TIME: 1330 PAGE 1 OF 2

Task Team Members:

GREG LOPER SAIC
JEFF DEVAUGN SAIC
DENNIS SINK BM
DWIGHT NOTK BM
JIM HAGAR BM

Narrative (include time and location):

1330 ON SITE, HENRY IS HERE, WAITING ON JOYCE FOR PERMIT
1340 DRILLERS ON SITE CLEAN UP B13 WHILE WE WAIT
1408 RECIEVE PERMIT FROM JOYCE
1414 TAKE B14001 OVA=Ø LEL=Ø
1420 PULL SPOON FROM 2'-4' OVA=Ø LEL=Ø
1433 KEEP HITTING A LARGE COBBLE LOOKS LIKE ~~WILL W~~
WE WILL SKIP 4'-6' AND TRY TO DRILL PAST IT
1441 PULL SPOON FROM # 6'-8', NO RECOVERY OVA=Ø LEL=Ø
1449 " " " 8-10, POOR RECOVERY OVA=Ø LEL=Ø
LOOKS LIKE WE WILL HAVE TO SKIP THIS SAMPLING
INTERVAL DUE TO POOR RECOVERY
1458 PULL SPOON FROM 10'-12' OVA=Ø LEL=Ø NO RECOVERY
DUE TO COBBLES
1505 PULL SPOON FROM 12'-14' OVA=Ø LEL=Ø
TAKE B14002
1520 PULL SPOON FROM 14'-16' OVA=Ø LEL=Ø AGAIN
POOR RECOVERY DUE TO COBBLES USED IN B14002
1532 PULL SPOON FROM 16'-18' OVA=Ø LEL=Ø USED
TO COMPLETE B14002, INTERVAL IS 12'-18'

Daily Weather Conditions: A.M.

P.M. 92°F HUMID SUNNY

Recorded By [signature] QA Checked By [signature] 7/29/94

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TASK TEAM ACTIVITY LOG SHEET

B14 P.108 SOIL BORING

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 TASK NO.: 34896

Date (mm/dd/yy): 7/7/94 TIME: NA PAGE 2 OF 2

Task Team Members:

SEE PAGE 107

Narrative (include time and location):

1551 PULL SPOON FROM 18-20 OVA = Ø LEL = Ø

1608 PULL SPOON FROM 20-22 OVA = Ø LEL = Ø

1624 PULL SPOON FROM 22-24 OVA = >1000 BH

LEL = 85% O_2 = 16% OVA = >1000 BH WITH METHANE TIP

OVA = Ø IN BZ

HALT DRILLING, TAKE B14Ø03 VOA ONLY

1630 WE WILL DISCARD SAMPLE JARS STARTED WITH 20-20' INTERVAL AND CALL THE VOA ONLY TAKEN @ 22-24 B14Ø03

1632 LEAVE SITE TWA = Ø.Ø7

LAST ENTRY

Daily Weather Conditions: A.M. NA

P.M. 93°F SUNNY HUMID

Recorded By [signature] QA Checked By [signature] 7/29/94

108

TASK TEAM ACTIVITY LOG SHEET

SOIL BORING
B14 p. 109
TASK NO.: 34896

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1

Date (mm/dd/yy): 7/8/94 TIME: 0630 PAGE 1 OF 5

Task Team Members:

GREG LODER SAIC
JEFF DEVAUGN SAIC
DENNIS SINK
DWIGHT NORK
JIM HAGAR

Narrative (include time and location):

0630 ON SITE REMOVE CAP ON BOREHOLE OVA=6 PPM
LEL=Ø
LOOKS LIKE THE HOLE HAS AIRED-OUT
0710 DRILLERS ARRIVE HENRY ON SITE
0715 DRILL DOWN 2' AND PULL APART CASING OVA=2 PPM
LEL=Ø
0724 PULL SPOON FROM 24'-26' FOR B14ØØ4
OVA = 8 PPM W/ METHANE TIP LEL=Ø
OVA = 8 PPM
0730 PULL SPOON FROM 26'-28' USE IN B14ØØ4 OVA=6 PPM
GOOD RECOVERY START B14104 LEL=Ø
0744 PULL SPOON FROM 28'-30' TO FINISH B14104
OVA = > 1000 PPM BH LEL=76%
OVA = Ø BZ O_2 = 17%
HALT ALL DRILLING ACTIVITIES, SPOON WAS WET
0753 WATER @ 21.7'
0816 DECIDE TO TAKE WATER SAMPLE, LEAVE SITE TO GET
BOTTLES AND INSTRUMENTS
0900 DRILLERS PUT WELL SCREEN IN AND LEAVE SITE

Daily Weather Conditions: A.M. 72°F CLOUDY
P.M. NA

Recorded By [signature] QA Checked By [signature] 7/29/94

109

TASK TEAM ACTIVITY LOG SHEET

SOIL BORING B14 P 110

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1

TASK NO.: 34896

Date (mm/dd/yy): 7/8/94 TIME: NA PAGE 2 OF 5

Task Team Members:

SEE PAGE 109

Narrative (include time and location):

0910 WATER @ 19.7' TD = ~~30.0'~~ 29.0 ac 7/8/94

0918 BEGIN PURGING WATER VERY CLOUDY

0932 WATER @ 20.5' 1.0 GAL PURGED

0940 WATER @ 20.7' 2.0 GAL PURGED

0945 pH = 7.84 DO = 0.4

REDOX = -139.6 COND = 211

TEMP = 18.4 @ 3.0 GALS PURGED

0956 pH = 7.94 DO = 0.

REDOX = -167.5 COND = 202

TEMP = 16.4 @ 4.0 GALS

1000 WATER @ 21.2' 5 GALS PURGED

1011 pH = 8.00

TEMP = 16.2

COND = 189 @ 8 GALS

1014 WATER @ 21.5 @ 8 GALS THIS IS STABLE WATER LEVEL. ONE BORE VOLUME = 19.77 (SEE PAGE 205)

PURGE VOLUME = 3 × 19.77

= 59.3 GALS

Daily Weather Conditions: A.M. 80°F CLOUDY

P.M. NA

Recorded By [signature] QA Checked By [signature] 7/29/97

110

TASK TEAM ACTIVITY LOG SHEET

SOIL BORING

B14 p.111

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1

TASK NO.: 34896

Date (mm/dd/yy): 7/8/94 TIME: NA PAGE 3 OF 5

Task Team Members:

SEE PAGE 109

Narrative (include time and location):

1025 pH = 8.02 @ 10 GALS PURGED
TEMP = 16.0
COND = 186

1057 pH = 7.90 @ 18 Gals Purged
Temp = 17.1
Cond = 189

1115 20 GALLONS PURGED BREAK FOR LUNCH

1200 BACK FROM LUNCH. RESUME BAILING. DRILLERS HERE, TOLD THEM TO GO HOME

1231 pH = 8.45
TEMP = 16.7 @ 22 GALS PURGED
COND = 191

1254 pH = 8.12 @ 28 GALS
TEMP = 16.6
COND = 191

1313 pH = 7.92 @ 35 gals
temp = 16.3
Cond. = 186

Daily Weather Conditions: A.M. NA

P.M. 82°F OVERCAST BREEZY CHANCE OF RAIN

Recorded By [signature] QA Checked By [signature] 7/29/94

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 TASK NO.: 34896

Date (mm/dd/yy): 7/8/94 TIME: NA PAGE 4 OF 5

Task Team Members:

SEE PAGE 109

Narrative (include time and location):

1335 pH = 7.79
TEMP = 16.0 @ 40 GALS
COND = 183

1352 pH = 7.50 @ 45 GALS
TEMP = 16.1
COND = 163

1410 pH = 7.54 @ 50 gals
Temp = 16.4
Cond = 2.02

1422 pH = 7.61 @ 55 gals
Temp = 16.2
Cond = 249

1429 ~~Cond~~ pH = 7.61 @ 59 gals
Temp = 16.0
Cond = 2.50

1434 pH = 7.60 @ 60 gals
Temp = 16.0
Cond = 254

1440 BEGIN TAKING W14001 WATER @ 21.5'

Daily Weather Conditions: A.M. NA
P.M. 82°F OVERCAST BREEZY CHANCE RAIN

Recorded By [signature] QA Checked By [signature] 7/29/94

TASK TEAM ACTIVITY LOG SHEET

SOIL BORING

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1

TASK NO.: 34896

Date (mm/dd/yy): 7/8/94 TIME: NA PAGE 5 OF 5

Task Team Members:

SEE PAGE 169.

Narrative (include time and location):

1535 FINISH SAMPLING, WATER DID CLEAR SOME, BUT STILL TURBID

pH = 7.53 DO = 3.1

TEMP = 16.4 REDOX = -168.2

COND = 238 WATER @ 22.6'

1545 LEAVE SITE TWA = 2.26

LAST ENTRY

Daily Weather Conditions: A.M. NA

P.M. 88°F PARTLY CLOUDY

Recorded By [signature] QA Checked By [signature] 7/29/94

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TASK TEAM ACTIVITY LOG SHEET

SOIL BORING B14 P.114

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1

TASK NO.: 34896

Date (mm/dd/yy): 7/11/94 TIME: 0720 PAGE 1 OF 2

Task Team Members:

GREG LODER	SAIC	DENNIS SINK	BM
JEFF DEVAUGN	SAIC	DWIGHT WORK	BM

Narrative (include time and location):

0720	ON SITE TO CONTINUE TO BEDROCK. DRILLERS HERE @ 0700. HENRY ON SITE					
0755	PULL SPOON	FROM		30'-32'	OVA = Ø	LEL = Ø
0828	"	"	"	32'-34'	OVA = Ø	LEL = Ø
0836	"	"	"	34'-36'	OVA = Ø	LEL = Ø
0849	"	"	"	36'-38'	OVA = Ø	LEL = Ø
0907	"	"	"	38'-40'	OVA = Ø	LEL = Ø
0928	"	"	"	40'-42'	OVA = Ø	LEL = Ø
0937	"	"	"	42-44	OVA = Ø	LEL = Ø
0946	"	"	"	44-46	OVA = Ø	LEL = Ø
0959	"	"	"	46'-48'	OVA = Ø	LEL = Ø
1021	"	"	"	48'-50'	OVA = Ø	LEL = Ø
1045	"	"	"	50'-52	OVA = Ø	LEL = Ø
1058	"	"	"	52'-54'	OVA = Ø	LEL = Ø
1110	BREAK FOR LUNCH					
1220	RESUME DRILLING					
1300	PULL	SPOON	FROM	54'-56'	OVA = Ø	LEL = Ø
1319	"	"	"	56'-58'	OVA = Ø	LEL = Ø
1330	"	"	"	58'-60'	OVA = Ø	LEL = Ø

Daily Weather Conditions: A.M. 60°F CLEAR

P.M. NA

Recorded By [signature] QA Checked By [signature] 7/29/94

TASK TEAM ACTIVITY LOG SHEET

SOIL BORING B14 P115

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 TASK NO.: 34896

Date (mm/dd/yy): 7/11/94 TIME: NA PAGE 2 OF 2

Task Team Members:

SEE PAGE 114

Narrative (include time and location):

1349	PULL	SPOON	FROM	60'-62'	OVA = Ø	LEL = Ø
1410	"	"	"	62'-64'	OVA = Ø	LEL = Ø
1439	"	"	"	64'-66'	OVA = Ø	LEL = Ø
1453	"	"	"	66'-68'	OVA = Ø	LEL = Ø
1508	"	"	"	68-70	OVA = Ø	LEL = Ø
1526	"	"	"	70-72	OVA = Ø	LEL = Ø
1544	"	"	"	72-74	OVA = Ø	LEL = Ø
1600	"	"	"	74-76	OVA = Ø	LEL = Ø
1615	"	"	"	76-78	OVA = Ø	LEL = Ø

1630 BREAK DOWN FOR DAY LEAVE SITE TW = 0.14

LAST ENTRY

Daily Weather Conditions: A.M. NA

P.M. 80° PARTLY CLOUDY

Recorded By [signature] QA Checked By [signature] 7/29/94

TASK TEAM ACTIVITY LOG SHEET

SOIL BORING B14 p. 116

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1

TASK NO.: 34896

Date (mm/dd/yy): 7/12/94 TIME: 0730 PAGE 1 OF 2

Task Team Members:

GREG	LODER	SAC	DENNIS	SUNK	BM
ERIC	SAYLOR	SAC	DWIGHT	WORK	BM
			JIM	WAGAR	BM

Narrative (include time and location):

0730 ON-SITE DRILLERS HERE @ 0700

0735 HENRY ON SITE

0748 RESUME DRILLING

0756	PULL	SPOON	FROM	78 - 80	OVA = Ø	LEL = Ø	
0828	"	"	"	80 - 82	OVA = Ø	LEL = Ø	
0846	"	"	"	82 - 84	OVA = Ø	LEL = Ø	
0909	"	"	"	84 - 86	OVA = Ø	LEL = Ø	START B14Ø21
0936	"	"	"	86 - 88	OVA = Ø	LEL = Ø	
0956	"	"	"	88 - 90	OVA = Ø	LEL = Ø	
1019	"	"	"	90 - 92	OVA = Ø	LEL = Ø	
1043	"	"	"	92 - 94	OVA = Ø	LEL = Ø	
1108	"	"	"	94 - 96	OVA = Ø	LEL = Ø	

1120 BREAK FOR LUNCH

1240 BACK ON SITE, RESUME DRILLING

1311	PULL	SPOON	FROM	96 - 98	OVA = Ø	LEL = Ø	
1330	"	"	"	98 - 100	OVA = Ø	LEL = Ø	
1352	"	"	"	100 - 102	OVA = Ø	LEL = Ø	
1415	"	"	"	102 - 104	OVA = Ø	LEL = Ø	END B14Ø21

1422 PULLED A SPOON FULL OF HEAVE, CONTINUED ON PAGE 213

Daily Weather Conditions: A.M. 65°F CLEAR

P.M. 88°F SUNNY

Recorded By [signature] QA Checked By [signature] 7/29/94

BOREHOLE LOG (SOIL) — SOIL BORING B14 P117

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 — PROJECT NO: 34896

FACILITY CODE: NA MND21 TMD 7/29/94
LOCATION ID: B14
COORDINATES (FT):
NORTH NA EAST NA
GROUND ELEVATION (FT MSL)
LOCATION TYPE: ~~NA~~ BH TMD 7/29/94
COMMENTS: NONE

DRILLER CODE: ~~NA~~ BOWS TMD 7/29/94
COMPLETION DATE 7/13/1994
DIAMETER (IN): 8
DEPTH (FTFD): 114.0
CONSTRUCTION METHOD: B
ACCEPTANCE CODE: ~~NA~~ A TMD 7/29/94

GROUNDWATER LEVELS

DATE	TIME	DEPTH (FT)
7/8/94	0753	21.7
7/6/94	0960	19.7
	0432	20.5
	0940	20.7
	1000	21.2
	1014	21.5
	1535	22.6

LITHOLOGIC LOG

LOCATION DESCRIPTION
80' OFF THE SOUTHEAST CORNER OF BLDG 66 (ABOVE GROUND TANKS) NEAR GAS PUMPS IN PARKING LOT

LOGGER CODE: ~~NA~~ SAIC TMD 7/29/94

DEPTH (FT)	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE RETAINED	SAMPLE METHOD	SAMPLE ID	BLOW COUNT (PER 6 IN)	N VALUE	USCS	VISUAL DESCRIPTIONS
	0-2	FULL	FULL	O	B14001	NA	NA	SP	COLLECTED IN BOWL
									SILT, SAND, AND GRAVEL, SOME CLAY
									DRY LOOSE POORLY SORTED
									ANGULAR TO WELL ROUNDED GRAVEL
									TO 30 mm
									2.5 Y 4/3 OLIVE BROWN
	2-4	1.4	0	U	NA	32/38/100/2	138	SP	2-3 SAME AS ABOVE
								GC	3-4 CLAY SOME COARSE SAND
									AND GRAVEL FIRM NON PLASTIC
									2.5 3/2 VERY DARK GRAYISH
									BROWN

ACCEPTANCE CODES: A - ACCEPTABLE, R - RECONNAISSANCE, U - UNACCEPTABLE, N - NOT DETERMINED

CONSTRUCTION METHODS:
A - AIR ROTARY
B - BORED OR AUGERED
C - CABLE - TOOL
D - DUG
H - HYDRAULIC - ROTORY
J - JETTED
P - AIR - PERCUSSION
R - REVERSE ROTERY
T - TRENCHING
V - DRIVEN
W - DRIVE AND WASH
Z - OTHER (SPECIFY)

SAMPLE METHODS:
A - AUGER CUTTINGS
S - 2" O.D. 1.38" I.D. DRIVE SAMPLES
U - 3" O.D. 2.42" I.D. TUBE SAMPLES
T - 3" O.D. THIN-WALLED SHELBY TUBE
O - OTHER (SPECIFY)

COMPLETE BOLDED DATA FOR ENTRY INTO TIMS

7/7/94 — FORM COMPLETED BY / DATE

7/29/94 — TECHNICAL REVIEWER / DATE

BOREHOLE LOG (SOIL)

SOIL B14 P.118

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 PROJECT NO.

DTD 7/29/94 DTD 7/29/94 Page 2 of

FACILITY CODE: ~~NA~~ MND21 DRILLER CODE: ~~NA~~ BOWS

LOCATION ID: B14 COMPLETION DATE 7 / 13/1994

LITHOLOGIC LOG

DEPTH (FT)	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE RETAINED	SAMPLE METHOD	SAMPLE ID	BLOW COUNT (PER 6 IN)	N VALUE	USCS	VISUAL DESCRIPTIONS
	4-6	Ø	Ø	U	NA	24/20/20/16	36	NA	SKIPPED INTERVAL DUE TO
									LARGE COBBLE
	6-8	Ø	Ø	U	NA	16/16/15/11	26	NA	NO RECOVERY DUE TO COBBLES
8	8-10	0.3	Ø	U	NA	8/15/17/20	37	GC	CLAY SOME COARSE SAND
									AND GRAVEL SOFT PLASTIC
									DAMP 5Y 3/3 DARK BROWN
	10-12	Ø	Ø	U	NA	23/17/21/21	42	NA	NO RECOVERY
	12-14	0.7	0.7	U	B14002	5/6/40/8/21	115	~~SM~~	LARGE COBBLE IN TOP
13.5								SM	13.5-14 SILT TRACE MEDIUM
									SAND AND GRAVEL DRY DENSE
									5G4 4/1 DARK GREENISH GRAY
	14-16	0.6	0.5	U	B14002	2/23/26/21	47	SM	LARGE COBBLE IN TOP
	SECOND SPOON								SAME AS ABOVE
	16-18	0.5	0.5	U	B14002	23/19/29/16	45	SM	SAME AS ABOVE
	SECOND SPOON								
	18-20	0.7	Ø	U	NA	NR	NA	SM	SAME AS ABOVE
	20-22	0.4	0.4	U	NA ~~B14003~~	7/7/94	NA	SM	SAME AS ABOVE
22	22-24	0.6	0.1	U	B14003	NR		PT	ORGANIC MUCK, TRACE GRAVEL
									PLANT FIBERS WET S
									BLACK

COMPLETE BOLDED DATA FOR ENTRY INTO TIMS

FORM COMPLETED BY / DATE 7/7/94 TECHNICAL REVIEWER 7/29/94

BOREHOLE LOG (SOIL)

SOIL BORING B14 p.119

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1

PROJECT NO.: 34896

7/29/94 TMD 7/29/94

FACILITY CODE: ~~NA~~ MND21

DRILLER CODE: ~~NA~~ BOWS

LOCATION ID: B14

COMPLETION DATE 7/13/1994

LITHOLOGIC LOG

DEPTH (FT)	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE RETAINED	SAMPLE METHOD	SAMPLE ID	BLOW COUNT (PER 6 IN)	N VALUE	USCS	VISUAL DESCRIPTIONS
24	24-26	1.4	1.4	U	B14~~Ø~~04	NR	NA	GC	NON HOMOGENEOUS MIXTURE
									OF CLAY SAND AND GRAVEL
									WITH PIECES OF TRASH
									IE: GLASS, WIRE, PLASTIC, ETC
									COVERED WITH MUCK FROM
									LAYER ABOVE. WET
	26-28	1.6	1.6	U	B14~~Ø~~04	NR	NA	GC	SAME AS ABOVE BUT NOW
					B14~~Ø~~04				SATURATED
	28-30	1.2	1.2	U	B14~~Ø~~04	NR	NA	GC	SAME AS ABOVE
7/6/94									
30	30-32	1.5	Ø	U	NA	12/48/34/65	82	GC	30-31.5 CLAY AND COARSE
									SAND SOME GRAVEL DAMP
									FIRM NONPLASTIC
									2.5Y 4/4 OLIVE BROWN
31.5								CL	31.5-32 CLAY AND COARSE
									SAND DRY FIRM SLIGHTLY
									PLASTIC TRACE SILT
									N/4 DARK GRAY
32	32-34	1.6	Ø	U	NA	20/30/23/35	53	SW	FINE SAND TRACE SILT
									WET SOFT WELL SORTED
									5Y 5/1 GRAY
34	34-36	0.2	Ø	U	N	10/08/44/70	72	SC	COARSE SAND, SOME CLAY
									NONHOMOGENEOUS, POORLY
									SORTED TRACE GRAVEL
									N/5 GRAY

COMPLETE BOLDED DATA FOR ENTRY INTO TIMS

7/6/94 FORM COMPLETED BY / DATE

7/29/94 TECHNICAL REVIEWER /

BOREHOLE LOG (SOIL)

SOIL BO
B14 P
PROJECT NO

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1

JMD 7/29/94 JMD 7/29/94

FACILITY CODE: ~~NA~~ MND21 DRILLER CODE: BOW ~~NA~~

LOCATION ID: B14 COMPLETION DATE 7 / 13/1994

LITHOLOGIC LOG

DEPTH (FT)	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE RETAINED	SAMPLE METHOD	SAMPLE ID	BLOW COUNT (PER 6 IN)	N VALUE	USCS	VISUAL DESCRIPTIONS
36	36-38	0.5	Ø	U	NA	30/100/4	130/10	CL	CLAY AND COARSE SAND
									DRY FIRM SLIGHTLY PLASTIC
									WEATHERED PIECE OF SHALE
									N/4 DARK GRAY
	38-40	1.8	Ø	U	NA	33/30/23/68	53	CL	SAME AS ABOVE
	40-42	1.9	Ø	U	NA	38/75/100/5	175/11	CL	40-41 SAME AS ABOVE
41								GC	41-42 CLAY AND COARSE
									SAND SOME GRAVEL DRY
									NONPLASTIC FIRM ROUNDED TO
									WELL ROUNDED UP TO 25 MM
									POORLY SORTED
									10 YR 5/4 YELLOWISH BROWN
	42-44	Ø	Ø	U	NA	100/5	100/5	NA	HIT COBBLE NO RECOVERY
	44-46	Ø.5	Ø	U	NA	68/100/3	168/8	GC	SAME AS 41-42'
	~~46-50~~	GC 7/14/94			GC	7/14/94 ~~55/65/40/100/5~~			
	46-48	1.4	Ø	U	NA	70/55/55/40	110	GC	SAME AS ABOVE
	48-50				GC	7/11/94 ~~70/35/55/40~~ ~~110~~			
		1.6	Ø	U	NA	55/65/40/40/5	155	GC	SAME AS ABOVE
	50-52	1.3	Ø	U	NA	36/46/55/36	101	GC	SAME AS ABOVE
	52-54	1.5	Ø	U	NA	35/35/70/70	105	GC	SAME AS ABOVE

COMPLETE BOLDED DATA FOR ENTRY INTO TIMS

7/11/94 7/29/94

FORM COMPLETED BY / DATE TECHNICAL REVIEWER /

120

BOREHOLE LOG (SOIL)

SOIL BORING

B14 p.121

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1

PROJECT NO: 34896

JHD 7-29-94 JHD 7-29-94

FACILITY CODE: ~~NA~~ MND21

DRILLER CODE: ~~NA~~ BOWS

LOCATION ID: B14

COMPLETION DATE 7/13/1994

LITHOLOGIC LOG

DEPTH (FT)	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE RETAINED	SAMPLE METHOD	SAMPLE ID	BLOW COUNT (PER 6 IN)	USCS ~~VALUE~~	N VALUE ~~USCS~~ GL 7/12/94	VISUAL DESCRIPTIONS
	54-56	Ø	Ø	U	NA	100/5	NA	100/5	NO RECOVERY COBBLE IN TIP
56	56-58	Ø.4	Ø	U	NA	150/5	GC	150/5	CLAY SAND AND GRAVEL WET POORLY SORTED, ANGULAR TO 30 mm 5 Y 5/2 OLIVE GRAY
	58-60	Ø.1	Ø	U	NA	100/4	GC	100/4	SAME AS ABOVE COBBLE IN TIP
	60-62	Ø.2	Ø	U	NA	100/5	GC	100/5	SAME AS ABOVE WITH COBBLES AND GRAVEL OF LIMESTONE SOME HIGHLY WEATHERED IN TIP
	62-64	Ø.2	Ø	U	NA	100/5	GC	100/5	SAME AS ABOVE
	64-66	1.4	Ø	U	NA	65/75/70/100/F	GC	145	SAME AS ABOVE
	66-68	1.7	Ø	U	NA	40/55/40/50	GC	85	66-67.5 SAME AS ABOVE WITH A HIGHLY WEATHERED COBBLE OF SHALE AT THE BOTTOM
67.5							GP		67.5-68 GRAVEL, NO FINES POORLY SORTED, SUB ANGULAR TO WELL ROUNDED SATURATED LOOSE

COMPLETE BOLDED DATA FOR ENTRY INTO TIMS

7/11/94 7/29/94

FORM COMPLETED BY / DATE TECHNICAL REVIEWER /

121

BOREHOLE LOG (SOIL)

SOIL BO
B14 P.12

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 PROJECT NO

JMD 7-29-94 JMD 7-29-94

Page 6 o

FACILITY CODE: ~~NA~~ MND21

LOCATION ID: B14

DRILLER CODE: BOWS ~~NA~~

COMPLETION DATE 7 /13 /19 94

LITHOLOGIC LOG

DEPTH (FT)	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE RETAINED	SAMPLE METHOD	SAMPLE ID	BLOW COUNT (PER 6 IN)	N VALUE	USCS	VISUAL DESCRIPTIONS
68	68-70	1.8	Ø	U	NA	50/60/52/55	112	GC	68-69.5 CLAY COARSE SAND, G
									AND COBBLES POORLY SORTED
									ANGULAR TO SUBANGULAR, MO
									N/5 GRAY
69.5									69.5-78 GRAVEL TRACE SU
									SUB ANGULAR TO WELL ROUN
									UP TO 7 mm. POORLY SOR
									LOOSE SATURATED
									10 YR 4/6 DARK YELLOWISH B
	70-72	1.2	Ø	U	NA	24/26/26/30	54	GC	SAME AS ABOVE
	72-74	1.4	Ø	U	NA	42/30/30/32	60	GC	SAME AS ABOVE WITH TRAC
									COBBLES
	74-76	1.1	Ø	U	NA	28/32/25/28	57	GC	SAME AS ABOVE
	76-78	1.2	Ø	U	NA	42/28/32/32	60	GC	SAME AS ABOVE
	78-80	1.4	Ø	U	NA	35/23/29/30	52	GC	78-79 SAME AS ABOVE
79								GC	79-80 NON UNIFORM MIXTURE
									OF CLAY COARSE SAND AND
									GRAVEL POORLY SORTED
									SUB ANGULAR TO WELL ROUNDED
									UP TO 35 mm WET
									10 YR 5/3 BROWN

COMPLETE BOLDED DATA FOR ENTRY INTO TIMS

7/11/94 7/29/94

122 FORM COMPLETED BY / DATE TECHNICAL REVIEWER /

BOREHOLE LOG (SOIL)

SOIL BORING: B14 p.123

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1

PROJECT NO: 34896

DTD 7/29/94 DTD 7/29/94

FACILITY CODE: ~~NA~~ MND21

DRILLER CODE: BOWSNA

LOCATION ID: B14

COMPLETION DATE 7/13/1994

LITHOLOGIC LOG

DEPTH (FT)	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE RETAINED	SAMPLE METHOD	SAMPLE ID	BLOW COUNT (PER 6 IN)	N VALUE	USCS	VISUAL DESCRIPTIONS
80	80-82	1.3	Ø	U	NA	12/23/44/54	67	SP	MEDIUM TO COARSE SAND AND
									GRAVEL POORLY SORTED
									SUB ROUNDED TO ROUNDED UP
									TO 20 mm LOOSE SATURATED
82	82-84	0.2	Ø	U	NA	100/4	100/4	SP	MUST HAVE HIT A COBBLE
									VERY FINE TO COARSE SAND
									AND GRAVEL TRACE SILT
									POORLY SORTED SUB ROUND
									TO WELL ROUND UP TO 20 mm
									LOOSE SATURATED N/4 GRAY
	84-86	1.0	Ø	U	NA	51/51/55/50	106	SP	SAME AS ABOVE BUT SLIGHTLY
									DENSE
	86-88	1.0	Ø	U	NA	65/29/33/42	62	SP	SAME AS ABOVE
	88-90	1.4	Ø	U	NA	68/30/56/99	86	SP	SAME AS ABOVE
	90-92	1.9	Ø	U	NA	59/33/54/100/5	87	SP	SAME AS ABOVE
	92-94	.0	Ø	U	NA	50/30/68/100/4	98	SP	SAME AS ABOVE
	~~96-98~~	7/12/94							
	94-96	2.0	Ø	U	NA	35/40/40/100/5	130	SP	SAME AS ABOVE
	96-98	2.0	Ø	U	NA	73/40/90/100/5	130	SP	SAME AS ABOVE
	98-100	2.0	Ø	U	NA	70/45/66/100/5	111	SP	SAME AS ABOVE

COMPLETE BOLDED DATA FOR ENTRY INTO TIMS

7/12/94

FORM COMPLETED BY / DATE

TECHNICAL REVIEWER /

BOREHOLE LOG (SOIL)

SOIL BO
B14 p.124

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA; PHASE 1

PROJECT NO:

TKD 7/29/94 TKD 7/29/94

Page 8 of 8

FACILITY CODE: ~~NA~~ MND 21

DRILLER CODE: ~~NA~~ BOWS

LOCATION ID: B14

COMPLETION DATE 7 / 13/1994

LITHOLOGIC LOG

DEPTH (FT)	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE RETAINED	SAMPLE METHOD	SAMPLE ID	BLOW COUNT (PER 6 IN)	N VALUE	USCS	VISUAL DESCRIPTIONS
100	100-102	2.0	0	U	NA	100/4	100/4	SP	100 - 100.5 VERY FINE TO MED
									SAND TRACE SILT AND CLAY
									POORLY SORTED SLIGHTLY
									DENSE SATURATED
									N/3 VERY DARK GRAY
									THE REST OF THE SPOON WAS
									FILLED WITH HEAVE, THIS MUST
									HAVE PREVENTED THE SPOON FROM
									BEING DRIVEN ANY FURTHER
	102-104	1.6	0	U	NA	100/3	100/3	SP	SAME AS ABOVE
	104-106	1.0	0	U	NA	70 110/3	110/3	~~70~~ SP	SAME AS ABOVE
	106-108								DISCONTINUED SPLIT SPOONS
114									BEDROCK AUGER REFUSAL
					LAST ENTRY				

COMPLETE BOLDED DATA FOR ENTRY INTO TIMS

7/12/94 FORM COMPLETED BY / DATE

7/29/94 TECHNICAL REVIEWER /

124

COMBUSTIBLE GAS INDICATOR (CGI) MONITORING DATA — SOIL BORING B14 ? 131

CT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 — PROJECT NO: 34896

ILITY CODE: ~~NA~~ MND21 — LOG DATE: 7/7/94 - 7/12/94

GER CODE: 7/29/94 ~~NA~~ SAIC — FIELD REP: GLODER

MANUFACTURER: MSA — CGI MODEL NO.: 261

IAL NO.: 2437 — CALIBRATION DATE/TIME: 7/7, 7/8, 7/11, 7/12

CEPTANCE CODE: ~~NA~~ A ~~THD~~ 7/29/94 — BATTERY CONDITION GOOD

IBRATION S (%LEL) E PENTANE CONCENTRATION 35 % LEL CYLINDER SERIAL NO NR

IBRATION S (PPM) E NA CONCENTRATION NA PPM CYLINDER SERIAL NO NA

MMENTS: NONE

CATION ID OR ON	COORDINATES FT NORTH	COORDINATES FT EAST	MONITORING TIME (HH:MM)	LOCATION TYPE	% LOWER EXPLOSIVE LIMIT	PPM	% OXYGEN
14 7/7	NA	NA	1414	BH	Ø	NA	21
			1420		Ø		21
			1441		Ø		21
			1449		Ø		21
			1458		Ø		21
			1505		Ø		21
			1520		Ø		21
			1532		Ø		21
			1551		Ø		21
			1608		Ø		21
			1624		85		16
7/8			Ø630		Ø		21
			Ø715		Ø		21
			Ø724		Ø		21
			Ø730		Ø		21

ACCEPTANCE CODES: A - ACCEPTABLE, R - RECONNAISSANCE, U - UNACCEPTABLE, N - NOT DETERMINED

TYPES: BH - BOREHOLE SL - SURFACE LOCATION TP - TEST PIT WL - WELL

TE BOLDED DATA FOR ENTRY INTO TIMS

7/7/94 — FORM COMPLETED BY / DATE

7/29/94 — TECHNICAL REVIEWER / DATE

B14 Bad Data

COMBUSTIBLE GAS INDICATOR (CGI) MONITORING DATA

SOIL BO[illegible] B14 p.132

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1

PROJECT NO. [illegible]

FACILITY CODE: ~~JHD~~ ~~NA~~ MND21

LOG DATE: 7/7/94 - 7/12/[illegible]

LOGGER CODE: 7/29/94 ~~NA~~ SAIC

FIELD REP: G. LODER

CGI MANUFACTURER: MSA

CGI MODEL NO.: 261

SERIAL NO.: 2437

CALIBRATION DATE/TIME: 7/7, 7/8, 7/[illegible]

ACCEPTANCE CODE: A

BATTERY CONDITION GOOD

CALIBRATION GAS (%LEL) TYPE PENTANE CONCENTRATION 35 % LEL CYLINDER SERIAL NO RR-34825

CALIBRATION GAS (PPM) TYPE NA CONCENTRATION NA PPM CYLINDER SERIAL NO NA

COMMENTS: FOR FURTHER READINGS SEE PAGES 114-116 AND 213

LOCATION ID OR DESCRIPTION	COORDINATES FT NORTH	COORDINATES FT EAST	MONITORING TIME (HH:MM)	LOCATION TYPE	% LOWER EXPLOSIVE LIMIT	PPM	% OXYGE[illegible]
B14 7/8	NA	NA	0744	BH	76	NA	17
7/11			0755		0		21
			0828		0		21
			0836		0		21
			0849		0		21
			0907		0		21
			0928		0		21
			0937		0		21
			0946		0		21
			0959		0		21
			1021		0		21
			1045		0		21
			1058		0		21
			1300		0		21
↓	↓	↓	1319	↓	0	↓	21

ACCEPTANCE CODES: A - ACCEPTABLE, R - RECONNAISSANCE, U - UNACCEPTABLE, N - NOT DETERMINED

LOCATION TYPES: BH - BOREHOLE SL - SURFACE LOCATION TP - TEST PIT WL - [illegible]

COMPLETE BOLDED DATA FOR ENTRY INTO TIMS

7/8/94

FORM COMPLETED BY / DATE

7/29/94

TECHNICAL REVIEWER / DATE

FLAME IONIZATION DETECTOR FIELD DATA — SOIL BORING B14 p-133

PROJECT NAME: EG&G MOUND OU5 OPERAIONAL AREA, PHASE 1 — PROJECT NO: 34896

FACILITY CODE: ~~NA~~ MND21 - JHD 7/29/94 LOG DATE: 7/7/94 - 7/12/94

LOCATION ID B14 LOCATION TYPE: BH BZ

LOGGER CODE: ~~NA~~ SAIC JHD 7/29/94 FIELD REP: GLODER

FLAME IONIZATION DETECTOR INSTRUMENT:

MANUFACTURER: FOXBORO MODEL NO.: 128

SERIAL NO.: 2241

DATE/TIME CALIBRATION 7/7 - 7/12 ACCEPTANCE CODE: ~~NA~~ A JHD 7/29/94

CALIBRATION GASES			
TYPE/CYLINDER ID NO.		CONCENTRATION (PPM)	
1	METHANE / ~~AA-34825~~ 34562	1	100
2	NA	2	NA

COMMENTS NONE

TIME (HH:MM)	SAMPLE ID	OBSERVED READING (ppm) DH	HS	BZ	D	OT	DRILLING DEPTH (ft)	COMMENTS
1414	314001	0	NA	NR	NA	NA	2	NONE
1420	NA	0					4	
1441		0					6	
1449		0					8	
1458		0					10	
1505	314002	0					12	
1520	"	0					14	
1532	"	0					16	
1551	NA	0					18	
1608	NA	0					20	
1624	314003	>1000		0			22	w/METHANE TIP >1000
0650	NA	6		NR			~~24~~ 22	NONE
0715	NA	2					24	
0724	314004	8					26	
0736	"	6					28	

ACCEPTANCE CODES: A - ACCEPTABLE, R - RECONNAISSANCE, U - UNACCEPTABLE, N - NOT DETERMINED

LOCATION TYPES:
BH - BOREHOLES
TP - TEST PIT
SS - SOIL SAMPLE
SB - SAMPLE BOTTLE
L - SURFACE LOCATION
WL - WELL
OT - OTHER (EXPLAIN)

OBSERVED READING:
DH - DOWNHOLE
HS - HEADSPACE
BZ - BREATHING ZONE
D - DURING DRILLING (BZ)
OT - OTHER

COMPLETE BOLDED DATA FOR ENTRY INTO TIMS

7/7/94 — FORM COMPLETED BY / DATE

7/29/94 — TECHNICAL REVIEWER / DATE

FLAME IONIZATION DETECTOR FIELD DATA

SOIL BOR
B14 0.13
PROJECT NO:

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1

FACILITY CODE: ~~NA~~ MND21 TMD 7-29-94 LOG DATE: 7/7 - 7/12/94

LOCATION ID B14 LOCATION TYPE BH BZ

LOGGER CODE: ~~NA~~ SAIC TMD 7-29-94 FIELD REP: GLODER

FLAME IONIZATION DETECTOR INSTRUMENT:

MANUFACTURER: FOXBORO MODEL NO.: 128

SERIAL NO.: 2241

DATE/TIME CALIBRATION 7/1/94 - 7/2/94 ACCEPTANCE CODE: ~~NA~~ A TMD 7-29-94

CALIBRATION GASES			
TYPE/CYLINDER ID NO.		CONCENTRATION (PPM)	
1 METHANE / 39562		1 100	
2 NA		2 NA	

COMMENTS FOR MORE READINGS SEE PAGES 114-116, AND 213

TIME (HH:MM)	SAMPLE ID	OBSERVED READING (ppm)					DRILLING DEPTH (ft)	COMMENTS
		DH	HS	BZ	D	OT		
0744	B14104	>1000	NA	0	NA	NA	30	W/ METHANE TP21
0755	NA	0		NA			32	NONE
0828		0					34	
0836		0					36	
0849		0					38	
0907		0					40	
0928		0					42	
0937		0					44	
0946		0					46	
0959		0					48	
1021		0					50	
1045		0					52	
1058		0					54	
1300		0					56	
1319		0					58	

ACCEPTANCE CODES: A - ACCEPTABLE, R - RECONNAISSANCE, U - UNACCEPTABLE, N - NOT DETERMINED

LOCATION TYPES:
BH - BOREHOLES
TP - TEST PIT
SS - SOIL SAMPLE
SB - SAMPLE BOTTLE
L - SURFACE LOCATION
WL - WELL
OT - OTHER (EXPLAIN)

OBSERVED READING:
DH - DOWNHOLE
HS - HEADSPACE
BZ - BREATHING ZONE
D - DURING DRILLING (B
OT - OTHER

COMPLETE BOLDED DATA FOR ENTRY INTO TIMS

7/11/94
FORM COMPLETED BY / DATE

7/29/94
TECHNICAL REVIEWER / DAT

BOREHOLE OR WELL PLUGGING / ABANDONMENT

SOIL BORING

B14 9-135

PROJECT: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1

PROJECT NO.: 34896

SITE ID NUMBER: B14 DATE PLUGGED 7/13/94

SITE COORDINATES: N: NA E: NA DEPTH BLS (ft) 114.0

TYPE OF CASING: NA

CASING DIAMETER (ID) (in.) NA GROUND ELEVATION (ft msl) NA

SCREENED ELEVATION (ft msl) NA

GEOLOGIC MATERIAL AT SCREEN NA

AMOUNT OF CASING REMOVED (ft) NA

PLUGGING MATERIAL BENTONITE GROUT

APPROX. VOLUME OF PLUGGING MATERIAL (cu ft.)

PLUGGING METHOD TREMIED THROUGH AUGERS

REMARKS 3 - 50 lb BAGS CEMENT AND 1/2 - 50 lb BAG BENTONITE IN 55 GALLON DRUM OF WATER IS ONE BATCH

LAST ENTRY

RECORDED BY: (Signature) QA CHECKED BY: 7/29/94 (Signature)

135

B14 9-135

SOLID MATRICES

SOIL
- [01] Surface (0-6 inches)
- [02] Subsurface (>6 inches)
- [09] Other

SEDIMENT / SLUDGES
- [11] Lake/Pond
- [12] River/Stream
- [13] Impoundment/Pond
- [14] Drum/Tank
- [19] Other

AIR SAMPLE
- [21] Filter
- [22] Sorbent
- [23] Sweepings/Fugitive Dust
- [24] Gases
- [29] Other

BIOLOGICAL/TERRESTRIAL
- [31] Biota
- [39] Other

GEO-TECHNICAL
- [41] Retained on #40
- [42] Retained on #200
- [43] Passed through #200
- [49] Other

LIQUID MATRICES

SURFACE WATER
- [51] Lake/Pond
- [52] River/Stream
- [53] Impoundment/Pond
- [54] Discharge
- [55] Spring/Seep
- [59] Other

GROUND WATER
- [61] Abandoned Well
- [62] Extraction Well
- [63] Injection Well
- [64] Irrigation Well
- [65] Lysimeter
- [66] Monitoring Well
- [67] Observation Well
- [68] Piezometer
- [69] Other
- [6A] Public Water Supply
- [6B] Purge Well
- [6C] Test Well
- [6D] Vapor Well
- [6E] Leachate Well

CONTAINERIZED

SEALED	UNSEALED
[71] Drum/Tank	[81] Drum/Tank
[79] Other	[89] Other

SAMPLE LOG SHEET

PROJECT NAME: Mound Operational Area **PROJECT NO:** 2680 p.140

SAMPLE ID NUMBER: B14001 DATE COLLECTED (MM/DD/YY): 7/7/94 TIME (HH:MM): 1214

SAMPLING -

LOCATION CODE: MNDOA

DESCRIPTION: MOUND OPERATIONAL AREA

POINT CODE: B14

DESCRIPTION: OPERAIONAL AREA BORING #14

SAMPLE -

MEDIA CODE: 01

DESCRIPTION: Soil Surface (0 - 6 Inches)

DEPTH 0.00 TO ~~6.00~~ 2.00 FT

GL 7/7/94

140

SAMPLE TYPE:

- [x] GRAB
- [ ] TIME COMPOSITE
- [ ] QC RINSATE
- [ ] OTHER (SPECIFY)
- [ ] SPATIAL COMPOSITE
- [ ] QC TRIP BLANK
- [ ] QC FIELD BLANK

FIELD OBSERVATIONS: NONE

SAMPLE COLLECTED: [x] YES [ ] NO

SAP SAMPLING PROCEDURE WAS FOLLOWED: [x] YES [ ] NO FIELD CHANGE ORDER REFERENCE NO: NA

IF SAP WAS NOT FOLLOWED, SPECIFY WHAT DEVIATIONS WERE NECESSARY AND WHY (INCLUDE FIELD CHANGE ORDER REFERENCE NO.):

NA

RECORDED BY: [signature] QA CHECKED BY: [signature] 7/27/94

(SIGNATURE) QA CHECKED BY: (SIGNATURE)

SAMPLE ID NUMBER: B14ØØ1 P. 141

CONTAINER VOLUME (ml)	CONTAINER TYPE	METHOD NAME AND NUMBER ANALYSIS	PRESERVATIVES (TYPE/VOL)	C-O-C #	AIR BILL #	CONTAINER LOT #	LABORATORY
1-12Ø	WM Glass	CLPVOA	Cool,4C	OACØ11 ~~OACØØ4~~	~~8219960125~~ SB 8/5	SEE CONTAINER LOT # LOG	COMPUC
1-25Ø	AmbGlass	SVOC,PEST/PCB	Cool,4C	GL 7/7/94	8219960151		COMPUC
1-25Ø	AmbGlass	EXPLOSIVES	Cool,4C				COMPUC
5/7/94 2-25Ø	WM Glass	ANIONS Fl,SO4,Cl,NØ2/NØ3	Cool,4C				COMPUC
1-25Ø	WM Glass	METALS,Cyanide	Cool,4C				COMPUC
1-12Ø	Poly	LANTHANIDES	Cool,4C				COMPUC
1-12Ø	AmbGlass	TOTAL ORGANIC CARBON	Cool,4C				COMPUC
2-25Ø	WM GLASS	RADS Ac,Sr,H3,GAMMA	NONE				COMPUC
2-25Ø	WM GLASS	RADS Pu,Th,U	NONE				COMPUC
			LAST ENTRY				

(14)

SAMPLE ID'S RINSATE: ERØØØ1 TRIP BLANK: ~~TBAØØ9~~ TBAØ11 SB 8-18 FIELD BLANK: FBØØØ3 FIELD DUPLICATE: NA

RECORDED BY: (SIGNATURE) QA CHECKED BY: 7/29/94 (SIGNATURE)

SAMPLE LOG SHEET

PROJECT NAME: Mound Operational Area **PROJECT NO:** 2680 p. 142

SAMPLE ID NUMBER: B14002 DATE COLLECTED (MM/DD/YY): 7/7/94 TIME (HH:MM): 1505

SAMPLING -

LOCATION CODE: MNDOA

DESCRIPTION: MOUND OPERATIONAL AREA

POINT CODE: B14

DESCRIPTION: OPERAIONAL AREA BORING #14

SAMPLE -

MEDIA CODE: 02

DESCRIPTION: Soil Subsurface (>6 Inches)

DEPTH 12.00 TO 19.00 FT

142

SAMPLE TYPE:

- [X] GRAB
- [ ] TIME COMPOSITE
- [ ] QC RINSATE
- [ ] OTHER (SPECIFY)
- [ ] SPATIAL COMPOSITE
- [ ] QC TRIP BLANK
- [ ] QC FIELD BLANK

FIELD OBSERVATIONS: USED RINSATE BOWL AND SPOON

SAMPLE COLLECTED: [X] YES [ ] NO

SAP SAMPLING PROCEDURE WAS FOLLOWED: [X] YES [ ] NO FIELD CHANGE ORDER REFERENCE NO: NA

IF SAP WAS NOT FOLLOWED, SPECIFY WHAT DEVIATIONS WERE NECESSARY AND WHY (INCLUDE FIELD CHANGE ORDER REFERENCE NO.):

NA

RECORDED BY: [signature] (SIGNATURE) QA CHECKED BY: [signature] 7/29/94 (SIGNATURE)

p 143

CONTAINER	CONTAINER	METHOD NAME AND NUMBER	PRESERVATIVES			CONTAINER	

RECORDED BY: _____ (SIGNATURE) QA CHECKED BY: _____ (SIGNATURE)

SAMPLE ID NUMBER: B14002 P143

CONTAINER VOLUME (ml)	CONTAINER TYPE	METHOD NAME AND NUMBER ANALYSIS	PRESERVATIVES (TYPE/VOL)	C-O-C #	AIR BILL #	CONTAINER LOT #	LABORATORY
1-120	WM Glass	CLPVOA	Cool,4C	~~GAC009~~ GAC011	8219960151	SEE CONTAINER LOT # LOG	COMPUC
1-250	AmbGlass	SVOC,PEST/PCB	Cool,4C	GL 7/7/94			COMPUC
1-250	AmbGlass	EXPLOSIVES	Cool,4C				COMPUC
2-250	WM Glass	ANIONS Fl,SO4,Cl,N02/N03	Cool,4C				COMPUC
1-250	WM Glass	METALS,Cyanide	Cool,4C				COMPUC
1-120	Poly	LANTHANIDES	Cool,4C				COMPUC
1-120	AmbGlass	TOTAL ORGANIC CARBON	Cool,4C				COMPUC
2-250	WM GLASS	RADS Ac,Sr,H3,GAMMA	NONE				COMPUC
2-250	WM GLASS	RADS Pu,Th,U	NONE				COMPUC
			LAST ENTRY				

SAMPLE ID'S RINSATE: ~~ER0003~~ ER0006 SB 8-18 TRIP BLANK: ~~TBA009~~ TBA011 SB 8-18 FIELD BLANK: ~~AB0003~~ FIELD DUPLICATE: NA

RECORDED BY: _____ (SIGNATURE) QA CHECKED BY: _____ 7/29/94 (SIGNATURE)

SAMPLE LOG SHEET

PROJECT NAME: Mound Operational Area **PROJECT NO:** 2680 p 144

SAMPLE ID NUMBER: B14ØØ3 DATE COLLECTED (MM/DD/YY): 7/7/94 TIME (HH:MM): 1624

SAMPLING -

LOCATION CODE: MNDOA

DESCRIPTION: MOUND OPERATIONAL AREA

POINT CODE: B14

DESCRIPTION: OPERAIONAL AREA BORING #14

SAMPLE -

MEDIA CODE: Ø2

DESCRIPTION: Soil Subsurface (>6 Inches)

DEPTH 22.00 TO 24.00 FT

144

SAMPLE TYPE:

- [X] GRAB
- [ ] TIME COMPOSITE
- [ ] QC RINSATE
- [ ] OTHER (SPECIFY) _____
- [ ] SPATIAL COMPOSITE
- [ ] QC TRIP BLANK
- [ ] QC FIELD BLANK

FIELD OBSERVATIONS: VOA ONLY

SAMPLE COLLECTED: [X] YES [ ] NO

SAP SAMPLING PROCEDURE WAS FOLLOWED: [X] YES [ ] NO FIELD CHANGE ORDER REFERENCE NO: NA

IF SAP WAS NOT FOLLOWED, SPECIFY WHAT DEVIATIONS WERE NECESSARY AND WHY (INCLUDE FIELD CHANGE ORDER REFERENCE NO.):

NA

RECORDED BY: [signature] QA CHECKED BY: [signature] 7/20/94

RECORDED BY: [signature] (SIGNATURE) QA CHECKED BY: [signature] 7/29/94

SAMPLE ID NUMBER: B14003 p. 145

CONTAINER VOLUME (ml)	CONTAINER TYPE	METHOD NAME AND NUMBER ANALYSIS	PRESERVATIVES (TYPE/VOL)	C-O-C #	AIR BILL #	CONTAINER LOT #	LABORATORY
1-120	WM Glass	CLP VOA	Cool,4C	OACØ11	8219960151	SEE CONTAINER LOT # LOG	COMPUC
~~1-250~~	~~AmbGlass~~	~~SVOC,PEST/PCB~~	~~Cool,4C~~				COMPUC
~~1-250~~	~~AmbGlass~~	~~EXPLOSIVES~~	~~Cool,4C~~				COMPUC
~~1-250~~	~~WM Glass~~	~~ANIONS Fl,SO4,Cl,NØ2/NØ3~~	~~Cool,4C~~				COMPUC
~~1-250~~	~~WM Glass~~	~~METALS,Cyanide~~	~~Cool,4C~~				COMPUC
1-120	Poly	LANTHANIDES	Cool,4C				COMPUC
~~1-120~~	~~AmbGlass~~	~~TOTAL ORGANIC CARBON~~	~~Cool,4C~~				COMPUC
~~2-250~~	~~WM GLASS~~	~~RADS Ac,Sr,H3,GAMMA~~	~~NONE~~				COMPUC
~~2-250~~	~~WM GLASS~~	~~RADS Pu,Th,U~~	~~NONE~~				COMPUC
			CART ENTRY				

SAMPLE ID'S RINSATE: ER0005 ~~ER0003~~ SB 8-18 TRIP BLANK: TBA011 ~~TBA009~~ SB 8-18 FIELD BLANK: AB0003 FIELD DUPLICATE: NA

RECORDED BY: [signature] (SIGNATURE) QA CHECKED BY: [signature] 7/29/94 (SIGNATURE)

145

SAMPLE LOG SHEET

PROJECT NAME: Mound Operational Area **PROJECT NO:** 2680 p.146

SAMPLE ID NUMBER: B14004 DATE COLLECTED (MM/DD/YY): 7/8/94 TIME (HH:MM): 0724

SAMPLING -

LOCATION CODE: MNDOA

DESCRIPTION: MOUND OPERATIONAL AREA

POINT CODE: B14

DESCRIPTION: OPERAIONAL AREA BORING #14

SAMPLE -

MEDIA CODE: 02

DESCRIPTION: Soil Subsurface (>6 Inches)

DEPTH 25.00 TO 30.00 FT

146

SAMPLE TYPE:

- [x] GRAB
- [ ] TIME COMPOSITE
- [ ] QC RINSATE
- [ ] OTHER (SPECIFY)
- [ ] SPATIAL COMPOSITE
- [ ] QC TRIP BLANK
- [ ] QC FIELD BLANK

FIELD OBSERVATIONS: CNA > 1000 ppm

SAMPLE COLLECTED: [x] YES [ ] NO

SAP SAMPLING PROCEDURE WAS FOLLOWED: [x] YES [ ] NO FIELD CHANGE ORDER REFERENCE NO: NA

IF SAP WAS NOT FOLLOWED, SPECIFY WHAT DEVIATIONS WERE NECESSARY AND WHY (INCLUDE FIELD CHANGE ORDER REFERENCE NO.):

NA

RECORDED BY: _____ (SIGNATURE) QA CHECKED BY: _____ (SIGNATURE)

SAMPLE ID NUMBER: B14ØØ4 P.147

CONTAINER VOLUME (ml)	CONTAINER TYPE	METHOD NAME AND NUMBER ANALYSIS	PRESERVATIVES (TYPE/VOL)	C-O-C #	AIR BILL #	CONTAINER LOT #	LABORATORY
1-12Ø	WM Glass	CLPVOA	Cool,4C	GACØ12	8219960652	SEE CONTAINER LOT # LOG	COMPUC
1-25Ø	AmbGlass	SVOC,PEST/PCB	Cool,4C				COMPUC
1-25Ø	AmbGlass	EXPLOSIVES	Cool,4C				COMPUC
GC 7/29/94 2-25Ø	WM Glass	ANIONS Fl,SO4,Cl,NØ2/NØ3	Cool,4C				COMPUC
1-25Ø	WM Glass	METALS,Cyanide	Cool,4C				COMPUC
1-12Ø	Poly	LANTHANIDES	Cool,4C				COMPUC
1-12Ø	AmbGlass	TOTAL ORGANIC CARBON	Cool,4C				COMPUC
2-25Ø	WM GLASS	RADS Ac,Sr,H3,GAMMA	NONE				COMPUC
147 2-25Ø	WM GLASS	RADS Pu,Th,U	NONE				COMPUC
			LAST ENTRY				

SAMPLE ID'S RINSATE: ERØØØ6 TRIP BLANK: TBAØ12 FIELD BLANK: ABØØØ3 FIELD DUPLICATE: B14ØØ4

RECORDED BY: _____ (SIGNATURE) QA CHECKED BY: _____ 7/29/94 (SIGNATURE)

SAMPLE LOG SHEET

PROJECT NAME: Mound Operational Area **PROJECT NO:** 2680 p. 170

SAMPLE ID NUMBER: B14021 DATE COLLECTED (MM/DD/YY): 7/12/94 TIME (HH:MM): 0909

SAMPLING -

LOCATION CODE: MNDOA

DESCRIPTION: MOUND OPERATIONAL AREA

POINT CODE: B14

DESCRIPTION: OPERAIONAL AREA BORING #14

SAMPLE -

MEDIA CODE: 02

DESCRIPTION: Soil Subsurface (> 6 Inches)

DEPTH 84.00 TO ~~90.00~~ 104.00 FT

170

SAMPLE TYPE:

- [X] GRAB
- [ ] TIME COMPOSITE
- [ ] QC RINSATE
- [ ] OTHER (SPECIFY)
- [ ] SPATIAL COMPOSITE
- [ ] QC TRIP BLANK
- [ ] QC FIELD BLANK

FIELD OBSERVATIONS:

VERY FINE TO COARSE SAND AND GRAVEL
TRACE SILT, POORLY SORTED, SUBROUND
TO WELL ROUNDED UP TO 20mm
LOOSE SATURATED

SAMPLE COLLECTED: [X] YES [ ] NO

SAP SAMPLING PROCEDURE WAS FOLLOWED: [X] YES [ ] NO FIELD CHANGE ORDER REFERENCE NO: NA

IF SAP WAS NOT FOLLOWED, SPECIFY WHAT DEVIATIONS WERE NECESSARY AND WHY (INCLUDE FIELD CHANGE ORDER REFERENCE NO.):

NA

RECORDED BY: [signature] QA CHECKED BY: [signature]

RECORDED BY: [signature] (SIGNATURE) QA CHECKED BY: [signature] 7/29/94 (SIGNATURE)

SAMPLE ID NUMBER: B14021

P. 171

CONTAINER VOLUME (ml)	CONTAINER TYPE	METHOD NAME AND NUMBER ANALYSIS	PRESERVATIVES (TYPE/VOL)	C-O-C #	AIR BILL #	CONTAINER LOT #	LABORATORY
~~1-Ø~~	~~SHELBY~~	~~GEOTECHNICAL~~	~~Cool,4C~~				~~SINGLE~~
1-19	BUCKET	GEOTECHNICAL	Cool,4C	OAS001	2169350761	SEE CONTAINER LOT # LOG	SINGLE
			LAST ENTRY				

171

SAMPLE ID'S RINSATE: NA TRIP BLANK: NA FIELD BLANK: NA FIELD DUPLICATE: NA

RECORDED BY: [signature] (SIGNATURE) QA CHECKED BY: [signature] 7/29/94 (SIGNATURE)

SAMPLE LOG SHEET

PROJECT NAME: Mound Operational Area **PROJECT NO:** 2680 p.180

SAMPLE ID NUMBER: W14001 DATE COLLECTED (MM/DD/YY): 7/8/94 TIME (HH:MM): 1440

SAMPLING -

LOCATION CODE: MNDOA

DESCRIPTION: MOUND OPERATIONAL AREA

POINT CODE: B14

DESCRIPTION: OPERAIONAL AREA BORING #14

SAMPLE -

MEDIA CODE: 69

DESCRIPTION: Other Groundwater

DEPTH NA TO NA NA

FIELD OBSERVATIONS: TAKEN WITH A BAILER
WATER VERY CLOUDY

SAMPLE TYPE:

- [X] GRAB
- [ ] TIME COMPOSITE
- [ ] QC RINSATE
- [ ] OTHER (SPECIFY)
- [ ] SPATIAL COMPOSITE
- [ ] QC TRIP BLANK
- [ ] QC FIELD BLANK

SAMPLE COLLECTED: [X] YES [ ] NO

JMD 7/26/94

SAP SAMPLING PROCEDURE WAS FOLLOWED: [X] YES [X] NO FIELD CHANGE ORDER REFERENCE NO: 05-NP-012

IF SAP WAS NOT FOLLOWED, SPECIFY WHAT DEVIATIONS WERE NECESSARY AND WHY (INCLUDE FIELD CHANGE ORDER REFERENCE NO.):

PACKER NOT USED ON WELL POINT. SEE ABOVE TRPC

RECORDED BY: [illegible]

RECORDED BY: [signature] (SIGNATURE) QA CHECKED BY: [signature] 7/29/94 (SIGNATURE)

SAMPLE ID NUMBER: W14001

8 181

CONTAINER VOLUME (ml)	CONTAINER TYPE	METHOD NAME AND NUMBER ANALYSIS	PRESERVATIVES (TYPE/VOL)	C-O-C #	AIR BILL #	CONTAINER LOT #	LABORATORY
2-40	Glass	CLP VOA	HCL to pH<2,4C	OAC012	8219960652	SEE CONTAINER LOT # LOG	COMPUC
2-40	Glass	CLPVOA - 8010	HCL to pH<2,4C				COMPUC
2-1000	AmbGlass	CLP SVOC	Cool,4C				COMPUC
2-1000	AmbGlass	CLP PEST / PCB	Cool,4C				COMPUC
2-1000	AmbGlass	EXPLOSIVES	Cool,4C				COMPUC
1-1000	Poly	METALS	HNO3 to pH<2,4C				COMPUC
1-1000	Poly	CYANIDE	NaOH to pH>12,4C				COMPUC
1-1000	Poly	ANIONS Fl,SO4,Cl	Cool,4C				COMPUC
1-1000	Poly	NO2/NO3	H2SO4 to pH<2,4C				COMPUC
1-1000	Poly	TOTAL NIT/TOTAL PHOS	H2SO4 to pH<2,4C				COMPUC
1-1000	AmbGlass	TOTAL ORGANIC CARBON	H2SO4 to pH<2,4C				COMPUC
1-1000	Poly	TOTAL SUSPENDED SOLIDS	Cool,4C				COMPUC
1-1000	Poly	TOTAL DISSOLVED SOLIDS	Cool,4C				COMPUC
1-1000	Poly	ALKALINITY	Cool,4C				COMPUC
2-1000	Poly	RADS Pu,Th,U,Am	HNO3 TO PH<2				COMPUC
2-1000	Poly	RADS Ac,Ra,Sr,GAMMA	HNO3 TO PH<2				COMPUC
1-1000	Glass	TRITIUM	NONE				COMPUC
1-1000	POLY	LANTHANIDES	HNO_3 TO pH<2				COMPUC

SAMPLE ID'S RINSATE: ER0004 TRIP BLANK: TBA012 FIELD BLANK: AB0002 FIELD DUPLICATE: MS/MSD

RECORDED BY: [signature] (SIGNATURE) QA CHECKED BY: [signature] 7/29/94 (SIGNATURE)

7/8/94

18

SAMPLE LOG SHEET

PROJECT NAME: PROJECT NO:

SAMPLE ID NUMBER: B14104 DATE COLLECTED (MM/DD/YY): 7/8/94 TIME (HH:MM): SB 8-9 ~~07:44~~ 07:24

SAMPLING -

LOCATION CODE: MINDOA

DESCRIPTION: Mound Operational Area

POINT CODE: B14

DESCRIPTION: Operational Area Boring #14

FIELD OBSERVATIONS: OVA >1000 ppm

DUPLICATE OF B14004

SAMPLE -

MEDIA CODE: 02

DESCRIPTION: Soil Subsurface (>6 inches)

DEPTH SB 8- ~~28.0'~~ 25.0 TO 30.0 Ft.

SAMPLE TYPE:

- [x] GRAB
- [ ] TIME COMPOSITE
- [ ] QC RINSATE
- [ ] OTHER (SPECIFY) _____
- [ ] SPATIAL COMPOSITE
- [ ] QC TRIP BLANK
- [ ] QC FIELD BLANK

SB8-9

SAMPLE COLLECTED: [x] YES [ ] NO

SAP SAMPLING PROCEDURE WAS FOLLOWED: [x] YES [ ] NO FIELD CHANGE ORDER REFERENCE NO: NA

IF SAP WAS NOT FOLLOWED, SPECIFY WHAT DEVIATIONS WERE NECESSARY AND WHY (INCLUDE FIELD CHANGE ORDER REFERENCE NO.):

NA

RECORDED BY: Sally J Brown (SIGNATURE) QA CHECKED BY: [signature] 8/10/94 (SIGNATURE)

(SIGNATURE)

SAMPLE ID NUMBER: B14004

CONTAINER VOLUME (ml)	CONTAINER TYPE	METHOD NAME AND NUMBER ANALYSIS	PRESERVATIVES (TYPE/VOL)	C-O-C #	AIR BILL #	CONTAINER LOT #	LABORATORY
1-120	WM Glass	CLP VOA	Cool, 4C	OAC012	8219960652		Compuchem
1-250	Amb Glass	SVOC, PEST/PCB	Cool, 4C				
1-250	Amb Glass	EXPLOSIVES	Cool, 4C				
2-250	WM Glass	ANIONS Fl, SO_4, Cl, NO_2/NO_3	Cool, 4C				
1-250	WM Glass	METALS, Cyanide	Cool, 4C				
1-~~250~~ 120 SB89	Poly	LANTHANIDES	Cool, 4C				
1-120	Amb Glass	TOTAL ORGANIC CARBON	Cool, 4C				
2-250	WM Glass	RADS Ac, Sr, H_3, GAMMA	NONE				
2-250	WM Glass	RADS Pu, Th, U	NONE				
		LAST ENTRY					

SB89

195

SAMPLE ID'S RINSATE: ER0006 TRIP BLANK: TBA012 FIELD BLANK: AB0003 FIELD DUPLICATE: B14004

RECORDED BY: Sally Brown (SIGNATURE) QA CHECKED BY: [signature] 8/16/94 (SIGNATURE)

GROUNDWATER QUALITY SAMPLING RECORD

SOIL BORING B14 P 203

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1

PROJECT NO: 34896

PAGE 1 OF 2

FACILITY CODE: ~~NA~~ MND21 THD 7/29/94

LOT CONTROL NO.: NA

LOCATION ID: B14

SAMPLE TYPE: F

SAMPLE ID: W14B01

ACCEPTANCE CODE: ~~NA~~ A THD 7/29/94

LOG DATE: 7/8/94

LOGGER CODE: ~~NA~~ SAIC

ANALYICAL LAB CODE: ~~NA~~ COMP THD 7/29/94

INITIAL GROUNDWATER DEPTH (FT): 21.5

SAMPLE DEPTH (FT): 19.7

SAMPLING PERIOD: START 1440

COMPLETE 1535

SAMPLING METHOD: B

DATE SENT: 7/8/94

COMMENTS WATER EXTREMELY CLOUDY AT BEGINNING OF PURGE CLEARING TO MODERATELY TURBID AT SAMPLING

FINAL PARAMETER MEASUREMENTS:

POTENTIAL OF HYDROGEN	pH	S.U.	7.53
SPECIFIC CONDUCTANCE	Ec	umhos/cm	238
REDOX POTENTIAL	Eh	mvolts	-160.2
TEMPERATURE	TMP	°C	16.4
ALKALINITY ($CaCO_3$)	ALK	mg/l	499
DISSOLVED OXYGEN	DO	mg/l	3.1

TIME	TOTAL VOLUME WITHDRAWN (GALS)	TOTAL VOLUME WITHDRAWN (Bore Volume)	pH	Ec (umhos/cm)	TEMP (°C)	COMMENTS
0945	3	0.15	7.84	211	18.4	NONE
0956	4	0.20	7.94	202	16.4	
1011	8	0.40	8.00	189	16.2	
1025	10	0.50	8.02	186	16.0	
1057	18	0.91	7.90	189	17.1	
1231	22	1.11	8.45	191	16.7	
1254	28	1.42	8.12	191	16.6	
1313	35	1.77	7.72	186	16.3	
1335	40	2.02	7.79	183	16.0	
1352	45	2.28	7.50	163	16.1	
1410	50	2.53	7.54	202	16.4	
1422	55	2.78	7.61	249	16.2	

ACCEPTANCE CODES: A - ACCEPTABLE, R - RECONNAISSANCE, U - UNACCEPTABLE, N - NOT DETERMINED

SAMPLE TYPES:
F - FIELD, R - REPLICATE, K - KNOWN, A - ACID BLANK

SAMPLING METHODS:
BP - BLADDER PUMP, PP - PERISTALIC PUMP, G - GRAB, B - BAILER, AL - AIR-LIFT SAMPLER, SL - SUCTION LIFT PUMP, SP - SUBMERSIBLE PUMP

COMPLETE BOLDED DATA FOR ENTRY INTO TIMS

7/8/94 FORM COMPLETED BY / DATE

7/29/94 TECHNICAL REVIEWER / DATE

GROUNDWATER QUALITY SAMPLING RECORD

SOIL BO
B14 p. 20

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1

PROJECT NO:

TAD 7/28/94

PAGE 2 OF 2

FACILITY CODE: ~~NA~~ MND21

LOCATION ID: B14

LOG DATE: 7/8/94

TIME	TOTAL VOLUME WITHDRAWN (GALS)	TOTAL VOLUME WITHDRAWN (Bore Volume)	pH	Ec (umhos/cm)	TEMP (°C)	COMMENTS
1434	60	3.03	7.60	254	16.0	NONE
1535	72	3.64	7.53	238	16.4	"
			LAST ENTRY			

GROUNDWATER QUALITY SAMPLING RECORD

SOIL BORING B14 p. 205

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1

PROJECT NO: 34896

TAD 7/29/94

PAGE 1 OF 1

FACILITY CODE: ~~NA~~ MND21

LOCATION ID: B14

LOG DATE: 7/8/94

BORE VOL CALCULATION (GAL)

$\frac{d^2\pi}{4}$ $(h_1 - h_2)$ X 7.48

DEPTH OF WELL (h2) (ft): 29.0

DEPTH TO WATER (h1) (ft): 21.5'

WELL DIAMETER (ft): 0.67

ONE BORE VOLUME (GAL): 19.77

SCREENED INTERVAL (ft): 10

FIELD REP: GLODER

INSTRUMENT(S) USED: pH, CONDUCTIVITY, TEMP, REDOX, D.O., OVA, LEL

SAMPLING INFORMATION

WITDRAWL METHOD: BAILER

FILTER SIZE: NA

THERMOMETER ID: NA

Ec METER ID: 1239

pH METER ID: SB 8-8 ~~2250~~ 2025

PUMP ID: NA

ALKALINITY KIT ID: HACH MODEL # 16700-01

CALIBRATION INFORMATION

DATE/TIME OF LAST Ec CALIBRATION: NR

TIME OF pH CALIBRATION: 0630

FOR STANDARD pH 7, INSTRUMENT READING: 7.02

FOR STANDARD pH 4, INSTRUMENT READING: NR

FOR STANDARD pH 10, INSTRUMENT READING: 10.01

Eh OF CALIBRATION SOLUTION: NR

Eh READING IN CALIBRATION SOLUTION AFTER MEASUREMENT: NR

TEMP OF CALIBRATION SOLUTION (°C): NR

SHIPPING INFORMATION

LAB(S) SHIPPED TO:	COMPUCHEM	NA	NA
DATE(S) SHIPPED:	7/8/94	↓	↓
METHOD OF SHIPMENT:	FEDEX		

COMMENTS: NONE

GROUNDWATER QUALITY SAMPLING RECORD

SOIL BORING B14 P 207

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1

PROJECT NO: 34896

PAGE 1 OF 1

FACILITY CODE: W14001

LOCATION ID: B14 1440

LOG DATE: 7/8/94

ERROR AT 4.50: $\left| \frac{X1 - X2}{XS} \right| \times 100 =$ 1.0 %

1st = 1.0 %

2nd = NA %

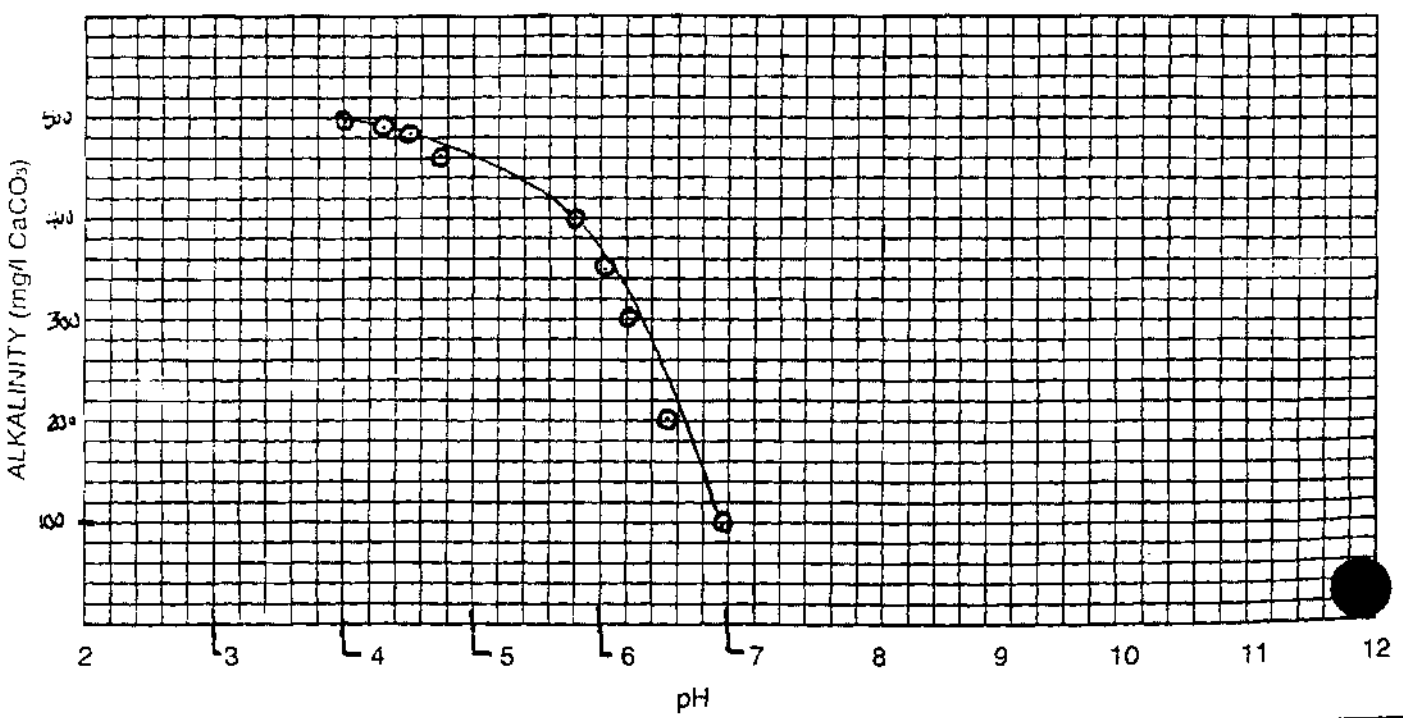
INITIAL pH 7.81

pH CHECK AFTER TITRATION

7.00 = 6.91

4.00 = 3.99

pH	ALKALINITY (mg/l $CaCO_3$)		
	1st	2nd	pH ~~3rd~~ FOR 2nd
8.90	NA	NA	NA
8.60	↓	↓	↓
8.30	↓	100	6.80
8.05	↓	200	6.40
~~7.80~~6.93	100	300	6.05
~~7.50~~6.55	200	400	5.61
~~6.22 6.50~~6.55	300	450	5.22
~~5.70~~6.04	350	470	4.93
~~5.10~~5.81	400	480	4.70
~~4.80~~4.74	480	485	4.63
~~4.50 4.50 1.35~~	484	489	4.51
~~4.35 4.25 1.05~~	490	501	4.02
4.00	499	503	3.95



STANDARD ELECTRICAL CONDUCTIVITY DATA — SOIL BORING

B14 p. 209

CT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 — PROJECT NO: 34896

UNIT CODE: MND21 — LOGGER CODE: SAIC

DATE: 7/28/94 — ACCEPTANCE CODE: A

JFACTURER/Ec METER ID: YSI MODEL 3000; SN91D029512; HAZCO# 2179

ELECTRICAL CONDUCTIVITY OF KNOWN SOLUTIONS AT 25° C:	
KNOWN (mg/l KCl)	Ec (meter)
1000 µmhos/cm	1147
NA	NA
NA	NA

Ec	TEMPERATURE (°C) LAB THERMOMETER	TEMPERATURE (°C) (Ec METER)
NR	0	NR
↓	1	↓
JHD 7/29/94	2	
~~0.887~~ 0.877	3	16.8
0.887	4	16.1
0.899	5	16.2
0.908	6	16.2
0.923	7	16.3
0.966	8	16.5
0.975	9	16.7
0.980	10	16.8
0.982	11	17.0
0.986	12	17.1
0.990	13	17.2
0.995	14	17.4
1.001	15	17.6
1.019	16	17.8
1.030	17	18.0
1.036	18	18.4
1.048	19	18.7
1.062	20	19.2
1.077	21	19.7
1.086	22	20.1
1.099	23	20.7
1.128	24	21.8
1.147	25	22.5

LETE BOLDED DATA FOR ENTRY INTO TIMS

[signature] 7/29/94
FORM COMPLETED BY / DATE

[signature] 7/29/94
TECHNICAL REVIEWER / DATE

B14 and E1

TASK TEAM ACTIVITY LOG SHEET

SOIL BORING B14 P.213

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1

TASK NO.: 34896

Date (mm/dd/yy): 7/12/94 TIME: NA PAGE 2 OF 2

Task Team Members:

SEE PAGE 116

Narrative (include time and location):

BORING B14 CONTINUED FROM PAGE 116

1450 PULL SPOON FROM 104' - 106 OVA=0 LEL=0

1520 " " " 106 - 108 OVA=0 LEL=0

1540 HAVING PROBLEMS NOW WITH HEAVING SANDS. THE DRILLERS ARE REMOVING IT BY POUNDING THE SPLIT SPOON IN AND EMPTYING IT, BUT SOMETIMES MORE BLOW-IN OCCURS WHEN PULLING THE SPOON OUT AND THIS IS VERY TIME CONSUMING AT THIS DEPTH.

1552 TALK TO JOHN DAVIS, GOT THE OK FROM HIM TO ASK ALEX BRAY IF WE CAN DISCONTINUE SPLIT SPOONS AND JUST AUGER DOWN TO BEDROCK UNTIL WE GET AUGER REFUSAL. WE HAVE BEEN IN SATURATED SANDS FOR 28' WITH NO SIGNIFICANT READINGS FROM ANY OF THE INSTRUMENTS

1559 RECIEVED APPROVAL FROM ALEX BRAY TO DISCONTINUE SPLIT SPOONS AND AUGER DOWN TO BEDROCK. WE WILL PROCEED WITH THIS FIRST THING TOMORROW

1610 LEAVE SITE. TWA FOR AIR MONITORING = 2.26

Daily Weather Conditions: A.M. NA

P.M. 88°F SUNNY

Recorded By [signature] QA Checked By [signature] 7/29/94

TASK TEAM ACTIVITY LOG SHEET

SOIL BORING B14 p. 214

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1

TASK NO.: 34896

Date (mm/dd/yy): 7/13/94 TIME: ~0700 PAGE 1 OF 1

Task Team Members:

GREG LOOER SAIC

ERIC SAYLOR SAIC

DENNIS SINK

DWIGHT WORK

JIM HAGAR

Narrative (include time and location):

0700 ON SITE HENRY AND KIETH MACMAHAN HERE INFORM KIETH OF DISCUSSION WITH ALEX BRAM

0720 DRILLERS ON SITE BEGIN DRILLING TO BEDROCK

0736 HIT BEDROCK @ 114.0' AUGER REFUSAL.

0743 ATTEMPTED TO HIT A SPOON IN BUT THERE IS ABOUT 4' OF HEAVE IN THE AUGERS

0930 HAVING TROUBLE CLEARING THE AUGERS HAD TO HIT A SPLIT SPOON IN A COUPLE OF TIMES TO CLEAR THEM

1015 BEGIN GROUTING

1028 SOME GROUT IS RUNNING OUT IN THE SAND AND GRAVEL

LAST ENTRY

Daily Weather Conditions: A.M. 72°F CLEAR

P.M. NA

Recorded By [signature] QA Checked By [signature] 7/29/94

TASK TEAM ACTIVITY LOG SHEET

SOIL BORING B15 p. 215

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1

TASK NO.: 34896

Date (mm/dd/yy): 07/27/94 TIME: 0700 : PAGE 1 OF 3

Task Team Members:

Susan L. Abston — Martin Cramer

[illegible]

07/27/94

Narrative (include time and location):

0700 Arrived GG site (trailer) to pick up equipment Calibration

0830 On site B15 D. Weik + D. Sink (Bauer) on site Henry Robinson (HP) on site

0852 Collected surface sample + duplicate

0906 Opened split spoon 2-4 ft BGS OVA = 0.0 ppm No Rad.

0914 Driving spoon 4-6 ft BGS

0920 Opening split spoon 4-6 ft BGS + Compositing w/ 2-4 ft split spoon sample OVA = 0.0 ppm - No rad

0933 Drilling down to 6 ft BGS OVA = 0.0 ppm down hole, 0.0 ppm breathing zone LEL = 0 O_2 = 20.9

0941 Driving split spoon from 6-8 ft BGS

0944 Opening split spoon OVA = 0.0 ppm breathing zone while pulling spoon 0.0 ppm No rad

0954 Driving split spoon from 8-10 ft BGS

0957 Opening split spoon OVA = 0.0 ppm - No rad Compositing 8-10 ft sample w/ 6-8 ft sample for composite

Daily Weather Conditions: A.M. ≈ 75° F Cloudy

P.M. NA

Recorded By Susan L Abston QA Checked By [illegible] 8/1/94

TASK TEAM ACTIVITY LOG SHEET

SOIL BORING B15 p.216

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1

TASK NO.: 34896

Date (mm/dd/yy): 07/27/94 TIME: 0700 : PAGE 2 OF 3

Task Team Members:

Susan L. Alston Martha Cramer

JLO 07/27/94

Narrative (include time and location):

1016 Drove split spoon 10-12 ft BGS.

1021 Opening split spoon 10-12 ft BGS OVA= 0.6 ppm No rad

1038 Driving split spoon 12-14 ft BGS Breathing zone 0.6 ppm. LEL 0 %O2 = 20.8-20.9

1043 Opening split spoon OVA= 0.0 ppm - No Rad

1052 Drilling down to 14 ft OVA= 0.0 ppm in Breathing zone + bore hole, LEL = 0 %O2 = 20.9 Compositing 12-14 w/ 10-12

1056 Driving split spoon 14-16 ft BGS

1102 Split spoon refusal at .4 inches

1105 Opened split spoon OVA= 0.0 ppm No rad Composited w/ 10-14 ft sample.

1110 Trying to auger to ~~14~~ 16 ft BGS (Sub 07/27/94) No enough sample for duplicate sample yet

1120 Drove split spoon to refusal at 16 ft 2 inches .2 TWA on dust monitor

1124 Opened split spoon OVA = 0.0 ppm No Rad Limestone

1145 Break for lunch after Henry Robinson (HP) scanned us

Daily Weather Conditions: A.M. JLO

P.M. 07/27/94

Recorded By Susan L Alston QA Checked By [signature] 8/1/94

TASK TEAM ACTIVITY LOG SHEET

SOIL BORING B15 P.217

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1

TASK NO.: 34896

Date (mm/dd/yy): 07/27/94 TIME: 0700 PAGE 3 OF 3

Task Team Members:

Martha Crouch Susan L Alston

07/27/94

Narrative (include time and location):

1245 Return from lunch to site
1325 Began auger to check for auger refusal
Limestone & shale cuttings coming out
1340 Kieth McMahan on site. He is checking to see if we need to keep on augering into the at 19 ft
1346 Kieth said we can stop drilling
1347 Dennis pulling auger. ~~Dewigh~~ SLA 07/27/94
* Dewight had to leave at lunch for his annual physical S. Belt helping Dennis
1352 Kieth off site
1420 Grouted borehole using 2 bags of Midwest Type I Portland Cement w/ 4% Aquagel Pure Gold Bentonite
Cleaning up site
1454 Drillers off site to do lon
1510 Everyone off site

(Last Entry

07/27/94

Daily Weather Conditions: A.M. NA

P.M. ~80°F Mostly Sunny

Recorded By Susan L Alston QA Checked By 8/1/94

BOREHOLE LOG (SOIL)

SOIL BORING B15 P.223

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1

PROJECT NO: 34896

FACILITY CODE: MND21

LOCATION ID: B15

COORDINATES (FT):

NORTH NA EAST NA

GROUND ELEVATION (FT MSL) NA

LOCATION TYPE: BH

COMMENTS: NONE

DRILLER CODE: BOWS

COMPLETION DATE 07/27/1994

DIAMETER (IN): 8

DEPTH (FTFD): 19

CONSTRUCTION METHOD: B

ACCEPTANCE CODE: A

GROUNDWATER LEVELS

DATE	TIME	DEPTH (FT)
NA		
NONE ENCOUNTERED		

LOCATION DESCRIPTION

Leach field outside building 51

LITHOLOGIC LOG

LOGGER CODE: SAIC

DEPTH (FT)	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE RETAINED	SAMPLE METHOD	SAMPLE ID	BLOW COUNT (PER 6 IN)	N VALUE	USCS	VISUAL DESCRIPTIONS
	0-2	NA	NA	NA	B15001	NA	NA	CL	10YR 5/3 Brown clay w/ large fossiliferous limestone frag Rounded to sub ~~angular~~ rounded SLF 6/27/94 quartz pebbles + some plant debris. dry to slightly moist
	2-4	1.2	1.2	U	B15002	5-6-6-9	15	CL	Same as above w/ smaller limestone frag. dry to slightly moist
	4-6	1.45	1.45	U	B15003	6-30-19-11	30	CL	Top 0.3 ft same as above Bottom 1.15 5Y 5/3 olive clay w/ 5GY 5/1 greenish gray completely weathered shale frag. + small 1/16 limestone fragments

ACCEPTANCE CODES: A - ACCEPTABLE, R - RECONNAISSANCE, U - UNACCEPTABLE, N - NOT DETERMINED

CONSTRUCTION METHODS:

A - AIR ROTARY
B - BORED OR AUGERED
C - CABLE - TOOL
D - DUG
H - HYDRAULIC - ROTORY
J - JETTED
P - AIR - PERCUSSION
R - REVERSE ROTERY
T - TRENCHING
V - DRIVEN
W - DRIVE AND WASH
Z - OTHER (SPECIFY)

SAMPLE METHODS:

A - AUGER CUTTINGS
S - 2" O.D. 1.38" I.D. DRIVE SAMPLES
U - 3" O.D. 2.42" I.D. TUBE SAMPLES
T - 3" O.D. THIN-WALLED SHELBY TUBE
O - OTHER (SPECIFY)

COMPLETE BOLDED DATA FOR ENTRY INTO TIMS

FORM COMPLETED BY / DATE

TECHNICAL REVIEWER / DATE 8/1/94

BOREHOLE LOG (SOIL)

B15 P.22

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1

PROJECT NO

FACILITY CODE: MND21

LOCATION ID: B15

DRILLER CODE: BOWS

COMPLETION DATE 07/27/1994

LITHOLOGIC LOG

DEPTH (FT)	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE RETAINED	SAMPLE METHOD	SAMPLE ID	BLOW COUNT (PER 6 IN)	N VALUE	USCS	VISUAL DESCRIPTIONS
	6-8	1.0	1.0	U	B15[illegible]3	11-8-7-9	16	CL	Top .7 ft same as [illegible] Bottom .3 ft 10YR5/4 yellowish brown silty clay w/ 10YR6/8 brownish yellow silt [illegible] (5%) and 5% small subrounded quartz pebble. Bottom moist
	8-10	1.2	1.2	U	B15[illegible]3	13 7-11-19	30	CL	Same as bottom of last zone. very moist zone 0.55 ft from bottom of sample. moist. Also contains some limestone (crystalline) fragments
	10-12	2.0	2.0	U	B15[illegible]4	10-21-30-45	75	CL	2.5Y 5/3 light olive brown [illegible] 5Y 5/3 olive clay/ completely weathered shale frag 5Y 5/3 olive 2.5Y 5/2 grayish brown shale frag that are calcareous very clay.
	12-14	1.6	1.6	U	B15[illegible]4	35-35-35-100	135	CL	Split spoon refusal at 20 in 13.67 ft BGS Same as above w/ some limestone frag. Some of the clay exhibits fabric — very weathered shale
	14-16	.35	.1	U	B15[illegible]4	[illegible]	104	CL	Split spoon refusal @ 14.2 ft BGS on NS gravel

COMPLETE BOLDED DATA FOR ENTRY INTO TIMS

FORM COMPLETED BY / DATE

TECHNICAL REVIEWER / DATE 8/1/94

224

BOREHOLE LOG (SOIL)

SOIL BORING

B15 p.225

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1

PROJECT NO: 34896

AREA CODE: MND21

DRILLER CODE: BOWS

LOCATION ID: B15

COMPLETION DATE 7/27/1994

LITHOLOGIC LOG

DEPTH (FT)	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE RETAINED	SAMPLE METHOD	SAMPLE ID	BLOW COUNT (PER 6 IN)	N VALUE	USCS	VISUAL DESCRIPTIONS
									crystalline limestone,
									core fragment · some fossil
	16-18	.1	.1	U	B15SW1	1/2/2	102	Limestone	Limestone frag
									Augered to 19 ft BGS
									in shales and limestone.
					CAST ENTRY				

COMPLETE BOLDED DATA FOR ENTRY INTO TIMS

Susan Walton

FORM COMPLETED BY / DATE

8/1/94

TECHNICAL REVIEWER /

225

COMBUSTIBLE GAS INDICATOR (CGI) MONITORING DATA — SOIL BORING B15 p 237

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 — PROJECT NO: 34896

JMD 8/1/94

ACILITY CODE: ~~NA~~ MND21 — LOG DATE: 7/27/94

OGGER CODE: ~~NA~~ SAIC — FIELD REP: SC Abston

GI MANUFACTURER: INDUSTRIAL SCIENTIFIC — CGI MODEL NO.: MX251

ERIAL NO.: 930699-061 — CALIBRATION DATE/TIME: 7/27/94 0700

CCEPTANCE CODE: A — BATTERY CONDITION GOOD

ALIBRATION
AS (%LEL)
YPE PENTANE CONCENTRATION 24 % LEL — CYLINDER SERIAL NO RR-34925

ALIBRATION
AS (PPM)
YPE NA CONCENTRATION NA PPM — CYLINDER SERIAL NO NA

OMMENTS: NA

LOCATION ID OR DESCRIPTION	COORDINATES FT NORTH	COORDINATES FT EAST	MONITORING TIME (HH:MM)	LOCATION TYPE	% LOWER EXPLOSIVE LIMIT	PPM	% OXYGEN
B15	NA	NA	0933	BH	0	NA	20.9
↓	↓	↓	1038	↓	0	↓	20.9
↓	↓	↓	1052	↓	0	↓	20.9
			LAST ENTRY				

MCC 8/22/94

ACCEPTANCE CODES: A - ACCEPTABLE, R - RECONNAISSANCE, U - UNACCEPTABLE, N - NOT DETERMINED

LOCATION TYPES: BH - BOREHOLE SL - SURFACE LOCATION TP - TEST PIT WL - WELL

COMPLETE BOLDED DATA FOR ENTRY INTO TIMS

Martha Z Cr 7/27/94 — FORM COMPLETED BY / DATE

8/1/94 — TECHNICAL REVIEWER / DATE

FLAME IONIZATION DETECTOR FIELD DATA

SOIL BORING B15 P.239

CT NAME: EG&G MOUND OU5 OPERAIONAL AREA, PHASE 1 — PROJECT NO: 34896

JRD 8/1/94

CILITY CODE: ~~MS~~ MND21 — LOG DATE: 7/27/94

CATION ID ~~MS~~ B15 — LOCATION TYPE: BH

GGER CODE: SAIC — FIELD REP: SL Alston

AME IONIZATION DETECTOR INSTRUMENT:

MANUFACTURER: FOXBORO — MODEL NO.: CENTURY OVA 128

SERIAL NO.: 40694

DATE/TIME CALIBRATION 7/27/94 — ACCEPTANCE CODE: A

CALIBRATION GASES	
TYPE/CYLINDER ID NO.	CONCENTRATION (PPM)
1 Methane / 32875	1 100ppm
2 NA	2 NA

MMENTS

TIME	SAMPLE ID	OBSERVED READING (ppm) DH	HS	BZ	D	OT	DRILLING DEPTH (ft)	COMMENTS
0906	~~B16~~ SB8-B B15	NR	NA	NA	NA	0.0	2-4	split spoon
0920		0.0		"		0.0	4-6	"
0933		0.0		0.0		NA	6	
0944		NA		0.0		0.0	6-8	split spoon
0957				NA		0.0	8-10	"
1021				"		0.0	10-12	"
1038		0.0		0.0		~~0.0~~ 7/27/94	~~12-14~~ 7/28/94	
1043				NA		0.0	12-14	split spoon
1052		0.0		0.0		NA	14	
1105						0.0	14-16	split spoon
1124						0.0	15-16	"
	LAST ENTRY							

ACCEPTANCE CODES: A - ACCEPTABLE, R - RECONNAISSANCE, U - UNACCEPTABLE, N - NOT DETERMINED

CATION TYPES:		OBSERVED READING:	
HOLES	SB - SAMPLE BOTTLE	DH - DOWNHOLE	BZ - BREATHING ZONE
ST PIT	L - SURFACE LOCATION	HS - HEADSPACE	D - DURING DRILLING (BZ)
SOIL SAMPLE	WL - WELL		OT - OTHER
	OT - OTHER (EXPLAIN)		

LETE BOLDED DATA FOR ENTRY INTO TIMS

Marbeth Cross 7/27/94 — FORM COMPLETED BY / DATE

[signature] 8/1/94 — TECHNICAL REVIEWER / DATE

BOREHOLE OR WELL PLUGGING / ABANDONMENT SOIL BORING

PROJECT: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 PROJECT NO.: 34896

WELL ID NUMBER: B15 DATE PLUGGED 7 / 27 / 94

SITE COORDINATES: N: NA DEPTH BLS (ft) 19 ft
E: NA

TYPE OF CASING: NA

CASING DIAMETER (ID) (in.) NA GROUND ELEVATION (ft msl) NA

SCREENED ELEVATION (ft msl) NA

GEOLOGIC MATERIAL AT SCREEN NA

AMOUNT OF CASING REMOVED (ft) NA

PLUGGING MATERIAL Type I Portland Cement w/4% Aquagel Gold Seal Bentonite

APPROX. VOLUME OF PLUGGING MATERIAL (cu ft.) 6.63 ft 3

PLUGGING METHOD Tremied through PVC tremie pipe

REMARKS 2 - 94 lb bags of Miami's brand Cement
CAST ENTRY

RECORDED BY: Susan L Alston (Signature) QA CHECKED BY: [signature] 8/1/94 (Signature)

SOLID MATRICES

SOIL
- [01] Surface (0-6 inches)
- [02] Subsurface (>6 inches)
- [09] Other

SEDIMENT / SLUDGES
- [11] Lake/Pond
- [12] River/Stream
- [13] Impoundment/Pond
- [14] Drum/Tank
- [19] Other

AIR SAMPLE
- [21] Filter
- [22] Sorbent
- [23] Sweepings/Fugitive Dust
- [24] Gases
- [29] Other

BIOLOGICAL/TERRESTRIAL
- [31] Biota
- [39] Other

GEO-TECHNICAL
- [41] Retained on #40
- [42] Retained on #200
- [43] Passed through #200
- [49] Other

LIQUID MATRICES

SURFACE WATER
- [51] Lake/Pond
- [52] River/Stream
- [53] Impoundment/Pond
- [54] Discharge
- [55] Spring/Seep
- [59] Other

GROUND WATER
- [61] Abandoned Well
- [62] Extraction Well
- [63] Injection Well
- [64] Irrigation Well
- [65] Lysimeter
- [66] Monitoring Well
- [67] Observation Well
- [68] Piezometer
- [69] Other
- [6A] Public Water Supply
- [6B] Purge Well
- [6C] Test Well
- [6D] Vapor Well
- [6E] Leachate Well

CONTAINERIZED

SEALED	UNSEALED
[71] Drum/Tank	[81] Drum/Tank
[79] Other	[89] Other

SAMPLE LOG SHEET

PROJECT NAME: Mound Operational Area **PROJECT NO:** 2680

SAMPLE ID NUMBER: B15ØØ1 DATE COLLECTED (MM/DD/YY): 07/27/94 TIME (HH:MM): 0852

SAMPLING -

LOCATION CODE: MNDOA

DESCRIPTION: MOUND OPERATIONAL AREA

POINT CODE: B15

DESCRIPTION: OPERAIONAL AREA BORING #15

FIELD OBSERVATIONS: Cloudy ~75°F, Used rinsate bowl (ERØØ9) while collecting sample. Also collected a duplicate ~~B15~~ B151Ø1 SJH 07/27/94

SAMPLE -

MEDIA CODE: Ø1

DESCRIPTION: Soil Surface (Ø - 6 Inches) 8/1/94

DEPTH Ø.ØØ TO ~~5.00~~ 2.Ø FT

SAMPLE TYPE:

- [X] GRAB
- [ ] TIME COMPOSITE
- [ ] QC RINSATE
- [ ] OTHER (SPECIFY)
- [ ] SPATIAL COMPOSITE
- [ ] QC TRIP BLANK
- [ ] QC FIELD BLANK

SAMPLE COLLECTED: [X] YES [ ] NO

SAP SAMPLING PROCEDURE WAS FOLLOWED: [X] YES [ ] NO FIELD CHANGE ORDER REFERENCE NO: NA

IF SAP WAS NOT FOLLOWED, SPECIFY WHAT DEVIATIONS WERE NECESSARY AND WHY (INCLUDE FIELD CHANGE ORDER REFERENCE NO.):

NA

RECORDED: Susan J. Alabos (SIGNATURE) CHECKED BY: [signature] 8/1/94 (SIGNATURE)

246

RECORDED [illegible] (SIGNATURE) QA CHECKED BY: [illegible] (SIGNATURE)

SAMPLE ID NUMBER: B15ØØ1

CONTAINER VOLUME (ml)	CONTAINER TYPE	METHOD NAME AND NUMBER ANALYSIS	PRESERVATIVES (TYPE/VOL)	C-O-C #	AIR BILL #	CONTAINER LOT #	LABORATORY
1-12Ø	WM Glass	CLPVOA	Cool,4C	OACØ21	8219959926		COMPUC
1-25Ø	AmbGlass	SVOC,PEST/PCB	Cool,4C				COMPUC
1-25Ø	AmbGlass	EXPLOSIVES	Cool,4C				COMPUC
1-25Ø	WM Glass	ANIONS Fl,SO4,Cl,NØ2/NØ3	Cool,4C				COMPUC
1-25Ø	WM Glass	METALS,Cyanide	Cool,4C				COMPUC
1-12Ø	Poly	LANTHANIDES	Cool,4C				COMPUC
1-12Ø	AmbGlass	TOTAL ORGANIC CARBON	Cool,4C				COMPUC
2-25Ø	WM GLASS	RADS Ac,Sr,H3,GAMMA	NONE				COMPUC
2-25Ø	WM GLASS	RADS Pu,Th,U	NONE				COMPUC
			CMT Entry	8/1/94			

See Container Lot # log.

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SAMPLE ID'S RINSATE: ERØØØ9 TRIP BLANK: TBAØ21 FIELD BLANK: ABØØØ5 FIELD DUPLICATE: B15 1Ø1

RECORDED BY: [illegible] (SIGNATURE) QA CHECKED BY: [illegible] 8/1/94 (SIGNATURE)

SAMPLE LOG SHEET

PROJECT NAME: Mound Operational Area **PROJECT NO:** 2680

SAMPLE ID NUMBER: B15002 DATE COLLECTED (MM/DD/YY): 07/27/94 TIME (HH:MM): 0914

SAMPLING -

LOCATION CODE: MNDOA

DESCRIPTION: MOUND OPERATIONAL AREA

POINT CODE: B15

DESCRIPTION: OPERAIONAL AREA BORING #15

SAMPLE -

MEDIA CODE: 02

DESCRIPTION: Soil Subsurface (>6 Inches)

DEPTH 2.0 TO 6.0 FT BGS

FIELD OBSERVATIONS: ≈ 75° F Cloudy
Collect combined air sample while
Collect this sample

SAMPLE TYPE:

- [X] GRAB
- [ ] TIME COMPOSITE
- [ ] QC RINSATE
- [ ] OTHER (SPECIFY)
- [ ] SPATIAL COMPOSITE
- [ ] QC TRIP BLANK
- [ ] QC FIELD BLANK

SAMPLE COLLECTED: [X] YES [ ] NO

SAP SAMPLING PROCEDURE WAS FOLLOWED: [X] YES [ ] NO FIELD CHANGE ORDER REFERENCE NO: N/A

IF SAP WAS NOT FOLLOWED, SPECIFY WHAT DEVIATIONS WERE NECESSARY AND WHY (INCLUDE FIELD CHANGE ORDER REFERENCE NO.):

NA

RECORDED BY: Susan L Gibbons (SIGNATURE) CHECKED BY: [illegible] 8/1/94 (SIGNATURE)

248

(SIGNATURE)

SAMPLE ID NUMBER: B15ØØ2

CONTAINER VOLUME (ml)	CONTAINER TYPE	METHOD NAME AND NUMBER ANALYSIS	PRESERVATIVES (TYPE/VOL)	C-O-C #	AIR BILL #	CONTAINER LOT #	LABORATORY
1-12Ø	WM Glass	CLPVOA	Cool,4C	OACØ21	8219959926	See Container Lot# 607	COMPUC
1-25Ø	AmbGlass	SVOC,PEST/PCB	Cool,4C				COMPUC
1-25Ø	AmbGlass	EXPLOSIVES	Cool,4C				COMPUC
1-25Ø	WM Glass	ANIONS Fl,SO4,Cl,NØ2/NØ3	Cool,4C				COMPUC
1-25Ø	WM Glass	METALS,Cyanide	Cool,4C				COMPUC
1-12Ø	Poly	LANTHANIDES	Cool,4C				COMPUC
1-12Ø	AmbGlass	TOTAL ORGANIC CARBON	Cool,4C				COMPUC
2-25Ø	WM GLASS	RADS Ac,Sr,H3,GAMMA	NONE				COMPUC
2-25Ø	WM GLASS	RADS Pu,Th,U	NONE				COMPUC
			Last Entry				

SAMPLE ID'S RINSATE: ERØØØ8 TRIP BLANK: TBAØ21 FIELD BLANK: ABØØØ6 FIELD DUPLICATE: NA

RECORDED BY: Susan L Alston (SIGNATURE) QA CHECKED BY: [signature] 8/1/94 (SIGNATURE)

249

SAMPLE LOG SHEET

PROJECT NAME: Mound Operational Area **PROJECT NO:** 2680

SAMPLE ID NUMBER: B15003 DATE COLLECTED (MM/DD/YY): 07/27/94 TIME (HH:MM): 0944

SAMPLING -

LOCATION CODE: MNDOA

DESCRIPTION: MOUND OPERATIONAL AREA

POINT CODE: B15

DESCRIPTION: OPERAIONAL AREA BORING #15

FIELD OBSERVATIONS: 50°F Cloudy

SAMPLE -

MEDIA CODE: 02

DESCRIPTION: Soil Subsurface (>6 Inches)

DEPTH 10.0 TO 14.0 ft BGS

290

SAMPLE TYPE:

- [X] GRAB
- [ ] TIME COMPOSITE
- [ ] QC RINSATE
- [ ] OTHER (SPECIFY)
- [ ] SPATIAL COMPOSITE
- [ ] QC TRIP BLANK
- [ ] QC FIELD BLANK

SAMPLE COLLECTED: [X] YES [ ] NO

SAP SAMPLING PROCEDURE WAS FOLLOWED: [X] YES [ ] NO FIELD CHANGE ORDER REFERENCE NO: N/A

IF SAP WAS NOT FOLLOWED, SPECIFY WHAT DEVIATIONS WERE NECESSARY AND WHY (INCLUDE FIELD CHANGE ORDER REFERENCE NO.):

N/A

RECORDED BY: Susan Y Allison (SIGNATURE) QA CHECKED BY: [signature] 8/1/94 (SIGNATURE)

RECORDED BY: _____ (SIGNATURE) (SIGNATURE)

SAMPLE ID NUMBER: B15ØØ3

CONTAINER VOLUME (ml)	CONTAINER TYPE	METHOD NAME AND NUMBER ANALYSIS	PRESERVATIVES (TYPE/VOL)	C-O-C #	AIR BILL #	CONTAINER LOT #	LABORATORY
1-12Ø	WM Glass	CLPVOA	Cool,4C	OACØ21	8219959926	See Container Lot # Log	COMPUC
1-25Ø	AmbGlass	SVOC,PEST/PCB	Cool,4C				COMPUC
1-25Ø	AmbGlass	EXPLOSIVES	Cool,4C				COMPUC
1-25Ø	WM Glass	ANIONS Fl,SO4,Cl,NØ2/NØ3	Cool,4C				COMPUC
1-25Ø	WM Glass	METALS,Cyanide	Cool,4C				COMPUC
1-12Ø	Poly	LANTHANIDES	Cool,4C				COMPUC
1-12Ø	AmbGlass	TOTAL ORGANIC CARBON	Cool,4C				COMPUC
2-25Ø	WM GLASS	RADS Ac,Sr,H3,GAMMA	NONE				COMPUC
2-25Ø	WM GLASS	RADS Pu,Th,U	NONE				COMPUC
			LAST ENTRY				

SAMPLE ID'S RINSATE: ERØØØ8 TRIP BLANK: TBAØ21 FIELD BLANK: ABØØØ6 FIELD DUPLICATE: NA

RECORDED BY: Susan J Allston (SIGNATURE) QA CHECKED BY: [signature] 8/1/94 (SIGNATURE)

SAMPLE LOG SHEET

PROJECT NAME: Mound Operational Area **PROJECT NO:** 2680

SAMPLE ID NUMBER: B15ØØ4 DATE COLLECTED (MM/DD/YY): 07/27/94 TIME (HH:MM): 1021

SAMPLING -

LOCATION CODE: MNDOA

DESCRIPTION: MOUND OPERATIONAL AREA

POINT CODE: B15

DESCRIPTION: OPERAIONAL AREA BORING #15

FIELD OBSERVATIONS: [illegible] Also took a duplicate ~~B15004~~ B15101 @ 07/27/94

SAMPLE -

MEDIA CODE: Ø2

DESCRIPTION: Soil Subsurface (>6 Inches)

DEPTH 10 TO 16 ft BGS

752

SAMPLE TYPE:

- [X] GRAB
- [ ] TIME COMPOSITE
- [ ] QC RINSATE
- [ ] OTHER (SPECIFY)
- [ ] SPATIAL COMPOSITE
- [ ] QC TRIP BLANK
- [ ] QC FIELD BLANK

SAMPLE COLLECTED: [X] YES [ ] NO

SAP SAMPLING PROCEDURE WAS FOLLOWED: [X] YES [ ] NO FIELD CHANGE ORDER REFERENCE NO: NA

IF SAP WAS NOT FOLLOWED, SPECIFY WHAT DEVIATIONS WERE NECESSARY AND WHY (INCLUDE FIELD CHANGE ORDER REFERENCE NO.):

NA

RECORDED: Susan J. Alston (SIGNATURE) CHECKED BY: [illegible] 8/1/94 (SIGNATURE)

RECORDED BY: Susan L Walton (SIGNATURE) QA CHECKED BY: [illegible] (SIGNATURE)

SAMPLE ID NUMBER: B15Ø04

CONTAINER VOLUME (ml)	CONTAINER TYPE	METHOD NAME AND NUMBER ANALYSIS	PRESERVATIVES (TYPE/VOL)	C-O-C #	AIR BILL #	CONTAINER LOT #	LABORATORY
1-12Ø	WM Glass	CLPVOA	Cool,4C	OACØ21	8219959926		COMPUC
1-25Ø	AmbGlass	SVOC,PEST/PCB	Cool,4C			See Container Lot # Log	COMPUC
1-25Ø	AmbGlass	EXPLOSIVES	Cool,4C				COMPUC
1-25Ø	WM Glass	ANIONS Fl,SO4,Cl,NØ2/NØ3	Cool,4C				COMPUC
1-25Ø	WM Glass	METALS,Cyanide	Cool,4C				COMPUC
1-12Ø	Poly	LANTHANIDES	Cool,4C				COMPUC
1-12Ø	AmbGlass	TOTAL ORGANIC CARBON	Cool,4C				COMPUC
2-25Ø	WM GLASS	RADS Ac,Sr,H3,GAMMA	NONE				COMPUC
2-25Ø	WM GLASS	RADS Pu,Th,U	NONE				COMPUC
			Last Entry				

253

SAMPLE ID'S RINSATE: ERØØ1Ø TRIP BLANK: TBAØ21 FIELD BLANK: ABØØØ6 FIELD DUPLICATE: B15Ø4

RECORDED BY: Susan L Walton (SIGNATURE) QA CHECKED BY: [illegible] 8/1/94 (SIGNATURE)

SAMPLE LOG SHEET

PROJECT NAME: Mound Operational Area **PROJECT NO:** 2680

SAMPLE ID NUMBER: ~~B15011~~ B15101 DATE COLLECTED (MM/DD/YY): 07/27/94 TIME (HH:MM): 0853

JLA 07/27/94

SAMPLING -

LOCATION CODE: MNDOA

DESCRIPTION: MOUND OPERATIONAL AREA

POINT CODE: B15

DESCRIPTION: OPERAIONAL AREA BORING #15

FIELD OBSERVATIONS: Duplicate of B15Q01 Clay 2.75'

SAMPLE -

MEDIA CODE: 02

DESCRIPTION: Soil Subsurface (>6 Inches)

DEPTH 0.0 TO 2.0 FT

SAMPLE TYPE:

- [X] GRAB
- [ ] TIME COMPOSITE
- [ ] QC RINSATE
- [ ] OTHER (SPECIFY) _____
- [ ] SPATIAL COMPOSITE
- [ ] QC TRIP BLANK
- [ ] QC FIELD BLANK

SAMPLE COLLECTED: [X] YES [ ] NO

SAP SAMPLING PROCEDURE WAS FOLLOWED: [X] YES [ ] NO FIELD CHANGE ORDER REFERENCE NO: NA

IF SAP WAS NOT FOLLOWED, SPECIFY WHAT DEVIATIONS WERE NECESSARY AND WHY (INCLUDE FIELD CHANGE ORDER REFERENCE NO.):

NA

RECORDED BY: Julia T Allaler (SIGNATURE) CHECKED BY: Jott 8/1/94 (SIGNATURE)

RECORDED BY: [illegible] (SIGNATURE) QA CHECKED BY: [illegible] (SIGNATURE)

SAMPLE ID NUMBER: B15Ø11

CONTAINER VOLUME (ml)	CONTAINER TYPE	METHOD NAME AND NUMBER ANALYSIS	PRESERVATIVES (TYPE/VOL)	C-O-C #	AIR BILL #	CONTAINER LOT #	LABORATORY
4-120	Wm Glass	CLP VOA	Ice 4°C	OACØ21	8219959926		Compuc
1-250	Amb Glass	SVOC, Pest/PCB					
1-250	Amb Glass	Explosives					
2-250	Wm Glass	Metals Tl, Sb, Cl, Mo, NO3					
1-250	Wm Glass	Metals Cyanide					
1-120	Poly	Lanthanides					
1-120	Amb Glass	Total Organic Carbon					
2-250	Wm Glass	Metals Al, Sr, Hg, Cr, Mg	None				
2-250	Wm Glass	Radio Th, Th, U	None				
			Lot Entry	SPH 8/2/94			

Sample Manager

SAMPLE ID'S RINSATE: ERØØØ9 TRIP BLANK: TBAØ21 FIELD BLANK: ABØØØ5 FIELD DUPLICATE: B15001

RECORDED BY: [signature] (SIGNATURE) QA CHECKED BY: [signature] 8/1/94 (SIGNATURE)

267

SAMPLE LOG SHEET

PROJECT NAME: Mound Operational Area **PROJECT NO:** 2680

SAMPLE ID NUMBER: ~~B15014~~ B15184 DATE COLLECTED (MM/DD/YY): 07/27/94 TIME (HH:MM): 1021

SAMPLING -

LOCATION CODE: MNDOA

DESCRIPTION: MOUND OPERATIONAL AREA

POINT CODE: B15

DESCRIPTION: OPERAIONAL AREA BORING #15

FIELD OBSERVATIONS: ~75°F Partly Cloudy
Duplicate of B15004

SAMPLE -

MEDIA CODE: 02

DESCRIPTION: Soil Subsurface (>6 Inches)

DEPTH 10 TO 16 FBLS

SAMPLE TYPE:

- [X] GRAB
- [ ] TIME COMPOSITE
- [ ] QC RINSATE
- [ ] OTHER (SPECIFY)
- [ ] SPATIAL COMPOSITE
- [ ] QC TRIP BLANK
- [ ] QC FIELD BLANK

SAMPLE COLLECTED: [X] YES [ ] NO

SAP SAMPLING PROCEDURE WAS FOLLOWED: [X] YES [ ] NO FIELD CHANGE ORDER REFERENCE NO: NA

IF SAP WAS NOT FOLLOWED, SPECIFY WHAT DEVIATIONS WERE NECESSARY AND WHY (INCLUDE FIELD CHANGE ORDER REFERENCE NO.):

NA

RECORDED BY: [signature] (SIGNATURE) QA CHECKED BY: [signature] 8/1/94 (SIGNATURE)

SAMPLE NUMBER: 815014

CONTAINER VOLUME (ml)	CONTAINER TYPE	METHOD NAME AND NUMBER ANALYSIS	PRESERVATIVES (TYPE/VOL)	C-O-C #	AIR BILL #	CONTAINER LOT #	LABORATORY
1-120	Wm Glass	Cyl VOA	Cool 4°C	OAC021	8219959926	See Container Lot # log	Compl.
1-250	Amb Glass	SVOC, Pest, PCBs					
1-250	Amb Glass	Explosives					
2-250	Wm Glass	Anions Fl, SO4, Cl, NO2, NO3					
1-250	Wm Glass	Metals Cyanide					
1-120	Poly	Lanthanides					
1-120	Amb Glass	Total Organic Carbon					
2-250	Wm Glass	Rads Ac, Sr, Hg, Gamma	None				
2-250	Wm Glass	Rads Pu, Th, U					
			CAST ENTRY				

SAMPLE ID'S RINSATE: ER0010 TRIP BLANK: TBA021 FIELD BLANK: AB0006 FIELD DUPLICATE: 815004

RECORDED BY: [signature] (SIGNATURE) QA CHECKED BY: [signature] (SIGNATURE) 8/1/94

STANDARD ELECTRICAL CONDUCTIVITY DATA — SOIL BORING

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 — PROJECT NO: 34896

CILITY CODE: MND21 — LOGGER CODE: SAIC

LOG DATE: 7/18/94 — ACCEPTANCE CODE: A

MANUFACTURER/Ec METER ID: YSI Model 3000, SN: 91D029512
HAZCO # ~~1422~~ 2179
GL 7/18/94

ELECTRICAL CONDUCTIVITY OF KNOWN SOLUTIONS AT 25° C:	
KNOWN (mg/l KCl)	Ec (meter)
1,000 microsiemens/cm	1,147

Ec	TEMPERATURE (°C) LAB THERMOMETER	TEMPERATURE (°C) (Ec METER)
NR	0	NR
↓	1	↓
↓	2	↓
0.877	3	16.8
0.887	4	16.1
0.899	5	16.2
0.908	6	16.2
0.923	7	16.3
0.966	8	16.5
0.975	9	16.7
0.980	10	16.8
0.982	11	17.0
0.986	12	17.1
0.990	13	17.2
0.995	14	17.4
1.001	15	17.6
1.019	16	17.8
1.030	17	18.0
1.036	18	18.4
1.048	19	18.7
1.062	20	19.2
1.077	21	19.7
1.086	22	20.1
1.099	23	20.7
1.128	24	21.8
1.147	25	22.5

COMPLETE BOLDED DATA FOR ENTRY INTO TIMS

George Wahl / 7/18/94 — FORM COMPLETED BY / DATE

[illegible] 8/1/94 — TECHNICAL REVIEWER / DATE

EG & G MOUND

OUS OPS AREA

PHASE I

AF SOIL BORING

LOGBOOK

B16

W410 (SDZ)

50 D
53.5 DO
67 M
75 H
81 S
86 K

SOIL BORING LOG BOOK

B16 W410

PROJECT TITLE: EG&G MOUND OU5 OPERATIONAL AREA PHASE 1 RI/FS FIELD INVESTIGATIONS

WORK SITE: *MOUND PLANT*
Miamisburg, Ohio
OU5 Operational Area

ACTIVITY: *Mound OU5 Operational Area Phase 1 RI/FS Field Investigations*

CONTRACT #: *BOA 52264*
TASK ORDER: *34896*

PROJECT MANAGER: *Thomas Tank*
COMPANY NAME / ADDRESS: *Science Applications International Corporation*
4031 Colonel Glenn Hwy ,Dayton, Ohio 45431
TELEPHONE NUMBERS: *(513) 429-2699*

SUPERVISORS: *OU5 Manager: Alan Spesard (513)865-3859*
SAIC Proj. Manager: Thomas Tank (513)429-2699

EMERGENCY RESPONCE: *Police / Ambulance / Fire 911 or 865-4040*

PROCEDURES: *SOP 1.1, SOP 2.2, SOP 3.1, SOP 5.1, SOP 6.1, SOP 6.3*

START DATE: 6/29/94
END DATE: 7/20/94

TABLE OF CONTENTS SOIL BORING

B16 W410 P.I

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 PROJECT NO: 34896

PAGE	FIELD LOG	PAGE	FIELD LOG
1	Task Team Activ. Log Sheet, B16, 6/29/94	31	Key Sheet
2	" " , 6/30/94	32	No Entry
3	" " "	33	↓
4	" " "	34	Sample Log Sheet, B160001
5	" " "	35	" " " "
6	" " "	36	Sample Log Sheet, B160002
7	" " , 7/25/94	37	" " " "
8	" " "	38	Sample Log Sheet, B160003
9	" " "	39	" " " "
10	" " "	40	Sample Log Sheet, B160004
11	Borehole Log B16	41	" " " "
12	↓	42	Sample Log Sheet, B160005
13		43	" " " "
14		44	Sample Log Sheet, B160006
15		45	" " " "
16	No Entry	46	Sample Log Sheet, B160007
17	↓	47	" " " "
18		48	No Entry
19		49	↓
20		50	
21		51	
22		52	
23		53	
24		54	
25	CGI Field Data B16 6/29/94	55	
26	CGI Field Data B16 ~~6/29/94~~ 7/25/94 SB 8/31/94	56	
27	FID Field Data B16 6/29/94	57	
28	FID Field Data B16 7/25/94	58	
29	Borehole Augering B16	59	
30	Task Team Activ. Log Sheet, B16, 7/26/94	60	↓

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B16 W410 P. II

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 PROJECT NO: [redacted]6

PAGE	FIELD LOG	PAGE	FIELD LOG
61	NO ENTRY	91	TASK TEAM ACTIV. LOG SHEET, W410, 7/6/94
62	↓	92	" " , 7/7/94
63		93	" " "
64		94	" " "
65		95	" " "
66	SAMPLE LOG SHEET, B16107	96	" " "
67	" " " "	97	" " , 7/11/94
68	NO ENTRY	98	" " "
69		99	" " "
70		100	" " "
71	↓	101	BOREHOLE LOG SHEET W410
72	SAMPLE LOG SHEET, W16001	102	↓
73	" " " "	103	[redacted]
74	NO ENTRY	104	NO ENTRY
75		105	
76		106	
77		107	
78		108	
79		109	
80	↓	110	
81	GNDWTR. QUAL. SAMP. REC., B16; W16001	111	
82	NO ENTRY	112	
83	GNDWTR. QUAL. SAMP. REC., B16	113	
84	NO ENTRY	114	↓
85	GNDWR. QUAL SAMP. REC., B16; W16 P01	115	CGI MONITORING DATA, W410, 7/7/94
86	NO ENTRY	116	" " , 7/11/94
87	STD. ELEC. CONDUCTIVITY DATA, B16	117	FID FIELD DATA, W410, 7/7/[redacted]
88	NO ENTRY NO ENTRY	118	" " , 7/11/94
89	~~STD. ALKALINITY TEST RECORD, B16~~ STD 19.5%	119	WELL PLUGGING W410
90	↓	120	TASK TEAM ACTIV. LOG SHEET, W410, 7/12/94

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B1C W410 P.III

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 — PROJECT NO: 34896

PAGE	FIELD LOG	PAGE	FIELD LOG
121	KEY SHEET	151	NO ENTRY
122	TASK TEAM ACTIV. LOG SHEET, W410, 7/12/94	152	
123	" " " " " " 7/13/94	153	
124	SAMPLE LOG SHEET, B41001	154	
125	" " " "	155	
126	SAMPLE LOG SHEET, B41002	156	
127	" " " "	157	
128	SAMPLE LOG SHEET, B41012	158	
129	" " " "	159	
130	SAMPLE LOG SHEET, W41001	160	
131	" " " "	161	
132	NO ENTRY	162	
133		163	
134		164	
135		165	
136		166	
137		167	
138		168	
139		169	
140		170	
141		171	
142		172	
143		173	
144		174	TASK TEAM ACTIV. LOG SHEET, W402, 7/19/94
145		175	GNDWTR QUAL. SAMP. REC. W410
146		176	NO ENTRY
147		177	GNDWTR QUAL. SAMP. REC. W410
148		178	NO ENTRY
149		179	GNDWTR QUAL. SAMP. REC. W410
150		180	NO ENTRY

B1C and W410 and

TABLE OF CONTENTS B16 W410 p. IV

SOIL E

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1

PROJECT NC

PAGE	FIELD LOG	PAGE	FIELD LOG
181	STD ELECTRICAL CONDUCTIVITY DATA W410	211	
182	NO ENTRY	212	
183	~~STD. ALKALINITY TEST REC. W410~~ NO ENTRY	213	~~DATE~~ 10/5/94
184	~~STD. ALKALINITY TEST REC. W410~~	214	
185	NO ENTRY	215	
186	TASK TEAM ACTIVE. LOG, W410, 7/20/94	216	
187	" " "	217	
188	WELL CONSTRUCTION DATA LOG; W410	218	
189	WELL COMPLETION INFO; W410	219	
190	MONITORING WELL DIAGRAM; W410	220	
191	NO MORE PAGES IN BOOK -	221	
192	NO MORE ENTRIES	222	NA
193		223	
194		224	
195		225	
196		226	
197		227	
198		228	
199		229	
200		230	
201		231	
202		232	
203		233	
204		234	
205		235	
206		236	
207		237	
208		238	
209		239	
210		240	

TASK TEAM ACTIVITY LOG SHEET — SOIL BORING B16 P-1

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 — TASK NO.: 34896

Date (mm/dd/yy): 6/29/94 TIME: 1335 PAGE 1 OF 1

Task Team Members:

GREG LODER	SAIC	DENNIS SINK	BM
JEFF DE VAUGHN	SAIC	DWIGHT WORK	BM
		JIM HAGAR	BM

Narrative (include time and location):

1335 ARRIVE ON SITE BEGIN SET-UP KIETH MACNAMARA AND CARY ON SITE

1355 TAKE B16001 FROM 0-2' OVA=0 ppm LEL=0

1359 BEGINS RAINING STOP WORK

1405 STOPS RAINING NO LIGHTNING ALERT RESUME WORK

1411 PULL SPOON FROM 2'-4' OVA = 8-10 PPM BH LEL=0
TAKE VOA B16002 OVA = 0 PPM BZ O_2=15%

1429 PULL SPOON FROM 4-6 FOR B16003 OVA - 8 PPM
LEL=0 O_2 = 16%

1435 RUN UP TO FILL H_2 IN OVA

1510 BACK ON SITE

1530 PULL SPOON FROM 6-8 OVA=8-10 PPM BH, 0 PPM BZ
LEL = 0 O_2 = 16 CK 6/29/94

1545 TAKE B16004 OVA = 8-10 PPM LEL=0 O_2 = 16%

1553 KIETH MACMAHAN SHUTS US DOWN DUE TO HIGH RAD READINGS WITH FIDDLER HE SAID THEY WOULD RUN LAB ANALYSIS AND INFORM US WHAT TO DO IN THE MORNING

1600 LEAVE SITE TWA= 0.35

Daily Weather Conditions: A.M. NA

P.M. WARM & CLEAR, 75°F, SOME RAIN IN AFT.

Recorded By [signature] QA Checked By [signature] 8/11/94

TASK TEAM ACTIVITY LOG SHEET

SOIL BORING B16 P2

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1

TASK NO.: 34896

Date (mm/dd/yy): 6/30/94 TIME: 0800 PAGE 1 OF 5

Task Team Members:

GREG LODER	SAIC	DENNIS SINK	BM
JEFF DEVAUGHN	SAIC	DWIGHT WORK	BM
		JIM WAGAR	BM

Narrative (include time and location):

0800 BACK ON-SITE

0810 DRILLERS AND GARY ON SITE

0819 PULL SECOND SPOON FROM 10-12' FOR B16004

OVA BH = 20 PPM LEL = Ø

OVA BZ = Ø O_2 = 16%

0829 PULL SPOON FROM 12'-14' OVA BH = 18 PPM LEL = 0

BZ = Ø O_2 = 16%

0845 TAKE B16005 OVA BH = 8-10 PPM LEL = Ø

OVA BZ = Ø O_2 = 16%

OVA SPOON = Ø

0847 NO RECOVERY, SPIN AUGERS TRY AGAIN

0856 SECOND SPOON FOR B16005

0901 KEITH AND GARY TAKE SEVERAL SAMPLES OF CUTTINGS FROM ~~16'-18'~~ 14'-16'

0918 PULL SPOON FROM 16'-18' OVA BH = 200 PPM SPIKE TO 800 PPM

LEL = 3% O_2 = 16% OVA BZ = Ø

TOOK VOA SAMPLE B16005 SPOON WAS SATURATED

0930 WATER STATIC @ 16.7' ASK KEITH MACNAMARA IF MOUND WANTED A WATER SAMPLE HE INFORMED

Daily Weather Conditions: A.M. SUNNY 72°F

P.M. N/A

Recorded By [signature] QA Checked By [signature] 8/11/94

TASK TEAM ACTIVITY LOG SHEET — SOIL BORING B16 P3

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA PHASE 1 — TASK NO.: 34896

Date (mm/dd/yy): 6/30/94 TIME: NA PAGE 2 OF 5

Task Team Members:

SEE PAGE 2

Narrative (include time and location):

US TO WAIT UNTIL HE CONSULTED ALEX BRAY AND MR. SPECER. ALSO NOTE THAT FIDDLER READINGS WERE HIGH BUT LAB ANALYSIS WASN'T AVAILABLE

1018 GOT WORD TO CONTINUE. WE WILL DRILL THE NEXT INTERVAL (18-20) AND POUND A SPOON, THEN COLLECT A WATER SAMPLE, RADS ONLY.

1025 PULL SPOON FROM 18'-20' OVA = 8-10 PPM BH LEL=0

OVA = Ø BZ O_2 = 14%

1032 TD = 18.5' WATER @ 17.0' MUST HAVE GOT SOME CAVE-IN

1055 BEGIN PURGING, USING BAILER THROUGH S.S. WELL SCREEN

PURGE VOLUME = $\frac{\pi d^2}{4}(h) \times 7.48$

$d = 2'' = .167'$ $= \frac{\pi (.028)}{4} \times 1.5 \times 7.48$ JMD 8/12/94

$= \cancel{3.9}$ GAL. JMD 8/12/94 ~~5.9 gal~~ .245 gal

1100 JEFF STAPLETON ON SITE. INDICATES THAT THEY FOUND ACTINIUM IN SOIL AND THAT WE SHOULD TAKE THE WATER SAMPLE AND THEN STOP WORK UNTIL LEVELS ARE QUANTIFIED

Daily Weather Conditions: A.M. SUNNY 80°F

P.M. NA

Recorded By [signature] QA Checked By [signature] 8/11/94

TASK TEAM ACTIVITY LOG SHEET

SOIL BO
B16 P
TASK NO.: 3

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1

Date (mm/dd/yy): 6/30/94 TIME: NA PAGE 3 OF 5

Task Team Members:

SEE PAGE 2

Narrative (include time and location):

1120 TAKE FIRST WATER PARAMETERS @ 0.5 GALS
pH = 6.95 TEMP = 18.0 °C
DO = 2.60 mg/l COND = ~~221~~ 257 µmhos/cm
JL 6/30/94

1127 pH = 7.08 TEMP = 15.7 °C
DO = 2.35 mg/l COND = 263 µohms/cm
1.5 GALS PURGED OVA = 2 ppm BH LEL=0
O_2 = 17.9

1133 pH = 7.13 TEMP = 15.2 °C
DO = 2.13 mg/l COND = 273
2.5 GALS PURGED

1139 pH = 7.16 TEM = 15.2 °C
DO = 2.36 mg/l COND = 277
4.0 GALS PURGED

1145 pH = 7.21 TEMP = 15.2 °C
DO = 2.32 mg/l COND = 279
4.5 GALS PURGED

Daily Weather Conditions: A.M. SUNNY 80°F
P.M. NA

Recorded By [signature] QA Checked By [signature] 8/11/94

TASK TEAM ACTIVITY LOG SHEET — SOIL BORING B16 P5

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 — TASK NO.: 34896

Date (mm/dd/yy): 6/30/94 TIME: NA: PAGE 4 OF 5

Task Team Members:

SEE PAGE 2

Narrative (include time and location):

1203 FINISH SAMPLING
pH = 7.41 TEMP = 15.3 °C
DO = 2.15 mg/l COND = 284 µmhos/cm

1214 ALL EQUIPMENT IN CONTACT WITH SOIL IS LEFT SO IT CAN BE DECONNED ON SITE AND THE WATER ADDED TO WASTE WATER

1218 ROY SCANS US OUT AND WE BREAK FOR LUNCH

1330 BACK ON SITE, DRILLERS ALREADY HERE GARY AND ROY MOWEN ON SITE

1350 ROUGH DECON OF SOIL SAMPLING EQUIPMENT: SPLIT SPOON, BOWL SLEEVES, ETC. COMPLETED WITH TAP WATER AND BRUSH, THEN TAP WATER RINSE AND ALLOWED TO DRY. THEY ARE THEN SCANNED WITH SCINTILLATOR AND FIDDLER AND SWIPED FOR BETA.

1430 AUGERS ARE LEFT IN GROUND AND COVERED WITH AN ORANGE CONSTRUCTION BARREL. ALL SOIL CUTTINGS ARE DRUMMED AND TAKEN TO

Daily Weather Conditions: A.M. SUNNY 80°F
P.M. SUNNY 84°F

Recorded By [signature] QA Checked By [signature] 8/11/94

TASK TEAM ACTIVITY LOG SHEET — SOIL BORING B6P6

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 — TASK NO.: 34896

Date (mm/dd/yy): 6/30/94 TIME: NA PAGE 5 OF 5

Task Team Members:

SEE PAGE 2

Narrative (include time and location):

BUILDING 19 WHERE MOUND PERSONNEL WILL AFFIX A LABEL. ALL WATER FROM PURGING AND DECON ARE PUT IN A POLY 55 GAL DRUM

1438 REMOVE EXCLUSION ZONE AND LEAVE SITE

LAST ENTRY

Daily Weather Conditions: A.M. NA

P.M. 84 °F SUNNY

Recorded By [signature] QA Checked By [signature] 8/11/94

TASK TEAM ACTIVITY LOG SHEET

SOIL BORING B16 D7

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1

TASK NO.: 34896

Date (mm/dd/yy): 07/25/94 TIME: 0838 : 1427 PAGE 1 OF 4

Task Team Members:

Martha Cramer Susan L. Abston

SLA 07/26/94

Narrative (include time and location):

0838 Arrive at B16 to continue drilling. Not using respirators unless levels rise above 60 ppm/gases. Driller - Dennis Sink, Dwight Cook (Boyer) on site. Keith ~~6/30/94~~ SLA 07/25/94 McMahan (Mound), Henry Robinson (Mound) HP on site. Signing ~~BLANK~~ ~~SLA 07/25/94~~ ~~PAGE~~ RWR. * Setting up site

0910 Begin drilling to 20ft BGS to begin continuous splitspoon sampling to 30ft BGS

0925 Driving 1st splitspoon 20-22 ft BGS
OVA = 0.0 ppm LEL 20.9 0%

0937 Broke spoon open. OVA 0.0 ppm LEL 0%-20.9

0946 Driving spoon 22-24 ft. Composite this spoon w/ last for a rad sample. Rad scan low due to water in borehole

0950 Broke Spoon open OVA 0.0 ppm Rad 0

0951 900 ppm down borehole 0.0 ppm in breathing zone 20.5 % O_2 0% LEL

0954 Continued drilling to 24 ft BGS

0958 Driving spoon 24-26 ft BGS

Daily Weather Conditions: A.M. ≈ 75°F Partly Cloudy

P.M. NA

Recorded By Susan L Abston QA Checked By ~~Tony~~ 8/11/94

no corrs

TASK TEAM ACTIVITY LOG SHEET

SOIL BORING B16 P8

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 **TASK NO.: 34896**

Date (mm/dd/yy): 07/25/94 TIME: ~~0836~~ : 1427 PAGE 2 OF 4

Task Team Members:

Martha Cramer Susan L. Abston

SLA 07/26/94

Narrative (include time and location):

1~~0~~403 Opened split spoon 24-26 OVA = 0.0 ppm

1~~0~~404 Down hole 300 ppm OVA, 0.0 ppm in Breathing Zone LEL 0 %O2 20.5

1~~0~~411 Driving spoon 26-28 ft BGS

1~~0~~416 Opened spoon. Bottom 6/30/94, 4 ft of sample OVA reading of 300 ppm. Collecting VOA sample

1037 ~~BLANK~~ Driving spoon 28-30 ft BGS ~~PAGE~~ Will composite this sample with 26-28 ft BGS for B16P07

1040 Break spoon open OVA 0.0 ppm 520 OVA down hole 0.0 ppm breathing zone LEL 0 %O2 20.4

1058 Opened spoon 30-32 ft BGS. OVA 0.0 ppm - No rad

1100 >1000 ppm OVA down hole 0.0 ppm breathing zone LEL 0 %O2 20.2

1108 Henry scanning everyone out

1120 Doing nose wipe for Henry

1130 Break for lunch

1245 Return to B16 location after check on other drill crew

Daily Weather Conditions: A.M. 120 07/26/94

P.M.

Recorded By Susan L Abston QA Checked By 8/11/94

no out

TASK TEAM ACTIVITY LOG SHEET

SOIL BORING B16 PS

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1

TASK NO.: 34896

Date (mm/dd/yy): ~~06~~ 07/25/94 TIME: 08/38 : 1427 PAGE 3 OF 4

Task Team Members:

Susan L. Abston — Martha Crane

SLA 07/25/94 — MC 07/24/94

Narrative (include time and location):

1302 Continued drilling to 32 ft BGS
Drillers + Hazmat (HP) on site
1379 Driving spoon 32-34 ft BGS. Kieth (Mound) on site ~~Cut 6/30/94~~ SLA 07/25/94
1320 Breaking open 32-34 ft spoon - clay
SLA 07/25/94 0.0 ppm OVA, no rad.
~~0~~1323 ~~BLANK~~ 790 ppm down borehole but 0.0
SLA 07/25/94 ~~PAGE~~ ppm in breathing zone, 20.4% O_2
LEL 0
1329 Driving spoon 34-36 ft BGS
1334 Opening 34-36 ft BGS spoon. 0.0 ppm
OVA no rad
1336 > 1000 ppm OVA down borehole, 0.0 ppm
1348 in Breathing zone 20.4% O_2, LEL ~~0.0~~ 0 SLA 07/25/94
~~1348~~ Driving spoon 36-38 ft BGS. Kieth off site
SLA 07/25/94
1353 Opening spoon 36-38 ft BGS. OVA 0.0 ppm no Rad
* No rad = not above background and limits
1355 310 ppm OVA down borehole, 0.0 ppm
in breathing zone LEL 0 20.4 % O_2
1401 Driving spoon 38-40 ft BGS Kieth on site

Daily Weather Conditions: A.M. 110

P.M. 07/26/94

Recorded By Susan L Abston QA Checked By [signature] 8/11/94

no [illegible]

W410 Qd

TASK TEAM ACTIVITY LOG SHEET

SOIL BORING: B16 P10

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1

TASK NO.: 34896

Date (mm/dd/yy): 07/25/94 TIME: 0838 : 1427 PAGE 4 OF 4

Task Team Members:

Justin L. Abston Martha Crane

JLA 07/26/94

Narrative (include time and location):

1411 Opened spoon for 28-30 ft BGS OVA 0.0 ppm - no Rad

1413 520 ppm downhole, 0.0 ppm in breathing zone. 20.4% O_2/0 LEL

Talked w/ Keith he said we did not have to split spoon every 2 ft.

1440 Driving spoon, ~~[illegible]~~ JLA 07/25/94 6/30/94 44-46 ft BGS

1455 Opened spoon OVA = 0.0 ppm. No rad

1457 ~~STANT~~ 0.0 ppm down bore hole, 0.0 ppm breathing zone. 20.6 % O_2 LEL 0

JLA 07/25/94 ~~PAGE~~

1510 Driving spoon from 49-51 ft BGS

1515 Opening spoon OVA = 0.0 ppm No Rad

Split spoon refusal 49.75. 0.0 ppm downbore hole. LEL = 0 20.6 O_2

Weathered bedrock @ 49.75

1535 Kieth on site. He said to drill to bedrock

Continued augering

1547 Auger refusal @ 52 ft BGS - Bedrock

Securing site. Leaving augers in ground till tomorrow. Kieth off site

1550 Henry scanning us out and doing nose wipes

1427 Off site

Daily Weather Conditions: A.M. NA

P.M. ≈ 85°F Partly Cloudy

Recorded By: Justin L. Abston QA Checked By: [illegible] 8/11/94

BOREHOLE LOG (SOIL) — SOIL BORING B16 P11

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 — PROJECT NO: 34896

JTD 8/11/94 — JTD 8/11/94 — Page 1 of 5

FACILITY CODE: ~~NA~~ MND21
LOCATION ID: B16
COORDINATES (FT):
NORTH NA EAST NA
GROUND ELEVATION (FT MSL) JTD 8/11/94
LOCATION TYPE: ~~NA~~ BH
COMMENTS: NA

DRILLER CODE: ~~NA~~ BOWS
COMPLETION DATE 6/30/1994
DIAMETER (IN): 8"
DEPTH (FTFD): 20
CONSTRUCTION METHOD: B
ACCEPTANCE CODE: ~~NA~~ A JTD 8/11/94

GROUNDWATER LEVELS

DATE	TIME	DEPTH (FT)
6/30/94	0930	16.7

LOCATION DESCRIPTION
50' EAST OF NORTHEAST CORNER OF BLDG 29

LITHOLOGIC LOG — LOGGER CODE: ~~NA~~ SAIC JTD 8/11/94

DEPTH (FT)	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE RETAINED	SAMPLE METHOD	SAMPLE ID	BLOW COUNT (PER 6 IN)	N VALUE	USCS	VISUAL DESCRIPTIONS
0	0-2	1.5	FULL	UO	B16001	~~52/41/47/86~~ 6/28/94		SM	SILT SOME GRAVEL TRACE
				JTD		19/24/21/11	32		COARSE SAND DRY LOOSE
				8/11/94					10YR 3/3 DARK BROWN
3	2-4	1.9	0.1	U	~~B16002~~	~~52/41/47/86~~	133	SM	2-3 SAME AS ABOVE
								SM	3-4 SILT SOME COARSE SAND
									TRACE CLAY TRACE
									GRAVEL DRY FIRM
									10 YR 5/2 GRAYISH BROWN
	4-6	0.8	0.8	U	B16003	~~51/39/52/94~~	86	SM	SAME AS ABOVE
	SECOND SPOON								

ACCEPTANCE CODES: A - ACCEPTABLE, R - RECONNAISSANCE, U - UNACCEPTABLE, N - NOT DETERMINED

CONSTRUCTION METHODS:
- [illegible]OTARY
- [illegible]ED OR AUGERED
- CABLE - TOOL
- DUG
- HYDRAULIC - ROTORY
- JETTED
- P - AIR - PERCUSSION
- R - REVERSE ROTERY
- T - TRENCHING
- V - DRIVEN
- W - DRIVE AND WASH
- Z -OTHER (SPECIFY)

SAMPLE METHODS:
A - AUGER CUTTINGS
S - 2" O.D. 1.38" I.D. DRIVE SAMPLES
U - 3" O.D. 2.42" I.D. TUBE SAMPLES
T - 3" O.D. THIN-WALLED SHELBY TUBE
O - OTHER (SPECIFY)

COMPLETE BOLDED DATA FOR ENTRY INTO TIMS

FORM COMPLETED BY / DATE 6/30/94 — TECHNICAL REVIEWER / DATE 8/11/94

W4104 PMD

BOREHOLE LOG (SOIL)

SOIL B
B16 P12

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1

PROJECT NO:

JJD 8/11/94

Page 2 o

FACILITY CODE: ~~NA~~ MND21

DRILLER CODE: BOWS~~SA~~ JJD 8/11/94

LOCATION ID: B16

COMPLETION DATE 6 /30/1994

LITHOLOGIC LOG

DEPTH (FT)	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE RETAINED	SAMPLE METHOD	SAMPLE ID	BLOW COUNT (PER 6 IN)	N VALUE	USCS	VISUAL DESCRIPTIONS
	6-8	0.4	Ø	U	NA	18/18/21/16	37	GM	SILT SOME SAND AND
									GRAVEL CHUNK OF
									ASPHALT DRY LOOSE
9.5	8-10	0.8	Ø	U	NA	16/9/11/13	24	GM	8-9.5 SAME AS ABOVE
								CL	9.5-10 CLAY SOME
									COARSE SAND TRACE
									GRAVEL SOFT MOIST
									PLASTIC 10 YR 4/4
									DARK YELLOWISH BR
	10-12	0.5	0.5	U	B16004	9/8/11/25	36	CL	SAME AS ABOVE
	SECOND SPOON								
	12-14	0.5	0.5	U	B16004	NR	NR	CL	SAME AS ABOVE, ~~SOME~~
									COBBLES OF LIMESTONE
	14-16	0.6	0.6	U	B16005	NR	NR	GW	GRAVEL ANGULAR TO
									WELL ROUNDED SOME
									COARSE SAND ~~SO~~ TRACE
									CLAY FINES SATURATE
									CHUNKS OF CONCRETE
	16-18	0.7	0.7	U	B16005	NR	NR	GW	SAME AS ABOVE PLUS
									2" THICK PIECE OF
									ASPHALT IN SHOE
17.0									WATER LEVEL
	18-20	0.4	Ø	U	NA	NR	NR	GW	SAME AS ABOVE

COMPLETE BOLDED DATA FOR ENTRY INTO TIMS

6/30/94 — FORM COMPLETED BY / DATE

8/11/94 — TECHNICAL REVIEWE

BOREHOLE LOG (SOIL) — SOIL BORING

B16 P13

OJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 — PROJECT NO.: 34896

JTD 8/11/94 — JTD 8/11/94 — Page 3 of 5

ACILITY CODE: ~~N/A~~ MND21 — DRILLER CODE: ~~N/A~~ BOWS

OCATION ID: B16 — COMPLETION DATE 07/25/1994

LITHOLOGIC LOG

DEPTH (FT)	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE RETAINED	SAMPLE METHOD	SAMPLE ID	BLOW COUNT (PER 6 IN)	N VALUE	USCS	VISUAL DESCRIPTIONS
	20-22	1.2	~~0.4~~ 1.2	U	B16[illegible]	13/13/13/19	32	GM	Gravel angular to well rounded w/ 30% coarse sand Bottom .2 ft of sample 10YR 5/2 greyish brown clay silty. TOP portion contains large concrete frag, limestone frag & some black granular asphalt frag. Bottom .2 ft contained ≈ 20% gravel fragments-wet
						~~Set~~	6/30/94 SLA @ 7/25/94		
		BLANK							
	20-24 22-24	1.0	PAGE 1.0	U	B16[illegible]	32/22/19/26	30	GM	Same as above except bottom .35 ft 10YR 5/2 greyish brown silty clay. The clay contains smaller gravel frag than the sand & gravel above (≈10% gravel frag in clay) wet
	24-26	0.8	0	U	NA	4/4/24/14	11	SW	Angular to well rounded gravel w/ 50% coarse ~~gravel~~ sand trace of silty clay. saturated some large frag of asphalt 24cm
	26-28	1.6	1.6	U	B16[illegible]	15/5/5/6	11	SW	Top .5 ft coarse sand & gravel
								CL	.5-1.2 ft a 10YR 4/1 to 10YR 5/2 grey to greyish brown clay w/ <5% rounded gravel frag, wood frag.
								OH	Bottom .4 ft (high OVA reading) black organic rich clay - has strong odor wet
	28-30	1.2	1.2	U	B16[illegible]	4/24/33/33	56	SW	Top .6 ft 90% coarse sand w/ 10% gravel

MPLETE BOLDED DATA FOR ENTRY INTO TIMS — FORM COMPLETED BY / DATE: [illegible] 07/26/94 — TECHNICAL REVIEWER / DATE: 8/11/94

not blank SLA 07/26/94

BOREHOLE LOG (SOIL) SOIL BOR

B16 P14

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 PROJECT NO:

8/11/94 8/11/94

Page 4 of 5

FACILITY CODE: ~~NA~~ MND21 DRILLER CODE: ~~NA~~ BOWS

LOCATION ID: B16 COMPLETION DATE 07/25/1994

LITHOLOGIC LOG

DEPTH (FT)	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE RETAINED	SAMPLE METHOD	SAMPLE ID	BLOW COUNT (PER 6 IN)	N VALUE	USCS	VISUAL DESCRIPTIONS
								OH	Bottom, 6 ft 10YR 4/2
									dark grayish brown clay w/
									~5% rock gravel frag. and
									some plant fragments
	30-32	2.0	NA	U	NA	11/21/31/50	83	OH	Same as bottom of last
									~~Sit 6/30/94 Sit 07/25/94~~
									spoon
	32-34	2.0	NA	U	NA	7/25/35/50	85	OH	Same as above w/ large
			~~BLANK~~		Sit 07/25/94				plant fragments - rootlets
			~~PAGE~~						Clay very hard to break
									(hard) saturation outside
									but one another breaking it
	34-36	2.0	NA	U	NA	21/21/21/31	55	OH	Same as above w/less
									plant rootlet Gravel
									fragment larger toward
									the top (up to 4cm)
	36-38	~~2.0~~ 0.8 ~~2.0~~	NA	U	NA	20-26-57-77	134	OH	Same as above
		Sit 07/25/94							
	38-40	1.5	NA	U	~~NA~~ NA Sit 07/25/94			OH	Same as above one
									large frag (> 3cm) of
									crystalline limestone
	44-46	.6	NA	U	NA	11-20-40-55	95	OH	Same as above. End
									of spoon contained large
									3.5 cm very crystalline
									limestone frag (clear calcite
									cleavage surface)
	49-51	0.7	NA	U	NA	75-100%	102		Split spoon refusal
									at 49.75 ft BGS weathered
									bedrock - shale

COMPLETE BOLDED DATA FOR ENTRY INTO TIMS

FORM COMPLETED BY / DATE 07/25/94 TECHNICAL REVIEWER / 8/11/94

OIL BORI[illegible] BOREHOLE LOG (SOIL) SOIL BORING: B16 DIS

NO: 34[illegible] PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 PROJECT NO: 34896

Page 5 of 5

FACILITY CODE: ~~A/A~~ MND21 DRILLER CODE: ~~N/A~~ BOWS

LOCATION ID: B16 COMPLETION DATE 07/25/1994

LITHOLOGIC LOG

NS	DEPTH (FT)	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE RETAINED	SAMPLE METHOD	SAMPLE ID	BLOW COUNT (PER 6 IN)	N VALUE	USCS	VISUAL DESCRIPTIONS
4/-									NA	Med grey NS to 5YR 4/4
w/										moderate brown shale
d										moderately to slightly weathered
ts							~~Ent 6/30/94~~			Auger Refusal @ 52ft BG
last							SLA 07/25/94			
								LAST ENTRY		
large				~~BLANK~~	SLA					
07/29/94										
Hats					~~PACE~~		07/24/94			
side										
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154 COMPLETE BOLDED DATA FOR ENTRY INTO TIMS

NER/

FORM COMPLETED BY / DATE 07/28/94 TECHNICAL REVIEWER / 8/11/94

15

COMBUSTIBLE GAS INDICATOR (CGI) MONITORING DATA — SOIL BORING B16 P25

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 — PROJECT NO: 34896

ACILITY CODE: ~~NA~~ MND21 — LOG DATE: 6/29/94

OGGER CODE: ~~NA~~ SAIC — FIELD REP: GLODER

GI MANUFACTURER: MSA — CGI MODEL NO.: 261

ERIAL NO.: 2437 — CALIBRATION DATE/TIME: 6/29/94 0700

CCEPTANCE CODE: ~~NA~~ A — BATTERY CONDITION GOOD

ALIBRATION
AS (%LEL)
YPE PENTANE CONCENTRATION 50 % LEL CYLINDER SERIAL NO 39525

ALIBRATION
AS (PPM)
YPE NA CONCENTRATION NA PPM CYLINDER SERIAL NO NA

OMMENTS: NA

LOCATION ID OR ESCRIPTION	COORDINATES FT NORTH	COORDINATES FT EAST	MONITORING TIME (HH:MM)	LOCATION TYPE	% LOWER EXPLOSIVE LIMIT	PPM	% OXYGEN
16 6/29/94	NA	NA	1355	BH	Ø	NA	21
			1411	BH	Ø	NA	15
			1429	BH	Ø	NA	16
			1530	BH	Ø	NA	16
			1545	BH	Ø	NA	16
6/30/94			0819	BH	Ø		16
			0829		Ø		16
			0845		Ø		16
			0918		~~Ø~~ 3		16
			1025		Ø		14
			1127		Ø		17
			LAST ENTRY				

ACCEPTANCE CODES: A - ACCEPTABLE, R - RECONNAISSANCE, U - UNACCEPTABLE, N - NOT DETERMINED

OCATION TYPES: BH - BOREHOLE SL - SURFACE LOCATION TP - TEST PIT WL - WELL

OMPLETE BOLDED DATA FOR ENTRY INTO TIMS — 6/29/94 FORM COMPLETED BY / DATE — 8/11/94 TECHNICAL REVIEWER / DATE

PWD 4140

COMBUSTIBLE GAS INDICATOR (CGI) MONITORING DATA — SOIL BORI

B16 P26

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 — PROJECT NO: 348

FACILITY CODE: ~~JTD~~ ~~NA~~ MND21 — LOG DATE: 7/25/94

LOGGER CODE: 8/11/94 ~~NA~~ SAIC — FIELD REP: SL ABSTON

CGI MANUFACTURER: Industrial Scientific — CGI MODEL NO.: MX251

SERIAL NO.: 9316099 - 261 — CALIBRATION DATE/TIME: 7/25/94 1710

ACCEPTANCE CODE: A — BATTERY CONDITION Good

CALIBRATION GAS (%LEL) — CYLINDER

TYPE DENTANE — CONCENTRATION 24 % LEL — SERIAL NO RR 34825

CALIBRATION GAS (PPM) — CYLINDER

TYPE NA — CONCENTRATION NA PPM — SERIAL NO NA

COMMENTS: NA

SIGT CL 6/30/94

LOCATION ID OR DESCRIPTION	COORDINATES FT NORTH	COORDINATES FT EAST	MONITORING TIME (HH:MM)	LOCATION TYPE	% LOWER EXPLOSIVE LIMIT	PPM	% OXYGE
B16	NA	NA	0925	BH	0	NA	20.9
			0954		0		20.5
	BLANK		1004		0		20.5
		PAGE	1040		0		20.4
			1100		0		20.2
			1323		0		20.4
			1334		0		20.4
			1355		0		20.4
			1413		0		20.4
			1457		0		20.6
			1515		0		20.6
	LAST ENTRY						

ACCEPTANCE CODES: A - ACCEPTABLE, R - RECONNAISSANCE, U - UNACCEPTABLE, N - NOT DETERMINED

LOCATION TYPES: BH - BOREHOLE SL - SURFACE LOCATION TP - TEST PIT WL - WELL

COMPLETE BOLDED DATA FOR ENTRY INTO TIMS — 7/25/94 — 8/11/94

FLAME IONIZATION DETECTOR FIELD DATA

SOIL BORING: B16 P27

PROJECT NAME: EG&G MOUND OU5 OPERAIONAL AREA, PHASE 1

PROJECT NO: 34896

FACILITY CODE: ~~NA~~ MND21 JTD 8/11/94

LOG DATE: 6/29/94

LOCATION ID: B16

LOCATION TYPE: ~~BH~~ BZ

LOGGER CODE: ~~NA~~ SMC JTD 8/11/94

FIELD REP: GLODER

FLAME IONIZATION DETECTOR INSTRUMENT:

MANUFACTURER: FOXBORO

MODEL NO.: 128 GC

SERIAL NO.: 50289

DATE/TIME CALIBRATION 6/29/94 0700

ACCEPTANCE CODE: JTD 8/12/94 ~~NA~~ A

CALIBRATION GASES	
TYPE/CYLINDER ID NO.	CONCENTRATION (PPM)
1 METHANE/35323	1 100
2 NA	2 NA

COMMENTS: NA

TIME (HH:MM)	SAMPLE ID	OBSERVED READING (ppm) DH	HS	BZ	D	OT	DRILLING DEPTH (ft)	COMMENTS
1355	B16001	0	NR		NR	NR	2	6/29/94
1411	B16002	8-10		0			4	
1429	B16003	8		0			6	
1530	NA	8-10		0			8	
1545	B16004	8-10		0			12	
0819	B16004	20		0			12	6/30/94
0829	NA	18		0			14	
0845	B16005	8-10		0			16	
0918	B16005	200		0			18	
1025	NA	8-10		0			20	
1127	W16001	2		0			18.5	
	LAST ENTRY							

ACCEPTANCE CODES: A - ACCEPTABLE, R - RECONNAISSANCE, U - UNACCEPTABLE, N - NOT DETERMINED

LOCATION TYPES:
BH - BOREHOLES
TP - TEST PIT
SS - SOIL SAMPLE
SB - SAMPLE BOTTLE
L - SURFACE LOCATION
WL - WELL
OT - OTHER (EXPLAIN)

OBSERVED READING:
DH - DOWNHOLE
HS - HEADSPACE
BZ - BREATHING ZONE
D - DURING DRILLING (BZ)
OT - OTHER

COMPLETE BOLDED DATA FOR ENTRY INTO TIMS

FORM COMPLETED BY / DATE: 6/29/94

TECHNICAL REVIEWER / DATE: 8/12/94

FLAME IONIZATION DETECTOR FIELD DATA — SOIL BORIN

B16 P28

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 — PROJECT NO: 3489

FACILITY CODE: MA MND21 — LOG DATE: 7/25/94

LOCATION ID: B16 — LOCATION TYPE: BH

LOGGER CODE: ~~SLA~~ SAC — FIELD REP: SC ABSTON

FLAME IONIZATION DETECTOR INSTRUMENT:

MANUFACTURER: Foxboro — MODEL NO.: OVA 128

SERIAL NO.: 42694

DATE/TIME CALIBRATION 7/25/94 0715 — ACCEPTANCE CODE: A

CALIBRATION GASES	
TYPE/CYLINDER ID NO.	CONCENTRATION (PPM)
1 Methane 132875	100
2	2

COMMENTS ~~6/30/94~~ 7/25/94

TIME (HH:MM)	SAMPLE ID	OBSERVED READING (ppm) DH	HS	BZ	D	OT	DRILLING DEPTH (ft)	COMMENTS
0925	~~B16~~ B16	0	NA	0	NA	NA	20	NONE
0927	B16006	NA		NA		0	20-22	
0950	~~BLANK~~ B1600	"		NA		0	22-24	
0951	~~BAGR~~	900		0		NA	24	
1003	B16007	NA		NA		0	24-26	
1004	B16	300		0		NA	26	
1016		NA		NA		300	26-28	
1000		"		NA		0	28-30	
1040		520		0		NA	30	
1055		NA		NA		0	30-32	
1100		71000		0		NA	32	
1320		"		NA		0	32-34	
1323		790		0		NA		
1324		71000		0		0	34-36	
1353		316		0		0	34-36	
1355		520		0		0	36-38	
1455		0		0		0	40-42	

ACCEPTANCE CODES: A - ACCEPTABLE, R - RECONNAISSANCE, U - UNACCEPTABLE, N - NOT DETERMINED

LOCATION TYPES:		OBSERVED READING:	
BH - BOREHOLES	SB - SAMPLE BOTTLE	DH - DOWNHOLE	BZ - BREATHING ZONE
TP - TEST PIT	L - SURFACE LOCATION	HS - HEADSPACE	D - DURING DRILLING (BZ)
SS - SOIL SAMPLE	WL - WELL		OT - OTHER
	OT - OTHER (EXPLAIN)		

COMPLETE BOLDED DATA FOR ENTRY INTO TIMS

Marilyn Clark 7/25/94 — FORM COMPLETED BY / DATE

5/12/94 — TECHNICAL REVIEWER / DAT

BOREHOLE OR WELL PLUGGING / ABANDONMENT — SOIL BORING

B16 P29

PROJECT: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 — PROJECT NO.: 34896

SITE ID NUMBER: B16 DATE PLUGGED 7/26/94

SITE COORDINATES: N: NA E: NA DEPTH BLS (ft) 52.0

TYPE OF CASING: NA

CASING DIAMETER (ID) (in.) NA GROUND ELEVATION (ft msl) NA

SCREENED ELEVATION (ft msl) NA

GEOLOGIC MATERIAL AT SCREEN NA

AMOUNT OF CASING REMOVED (ft) NA

PLUGGING MATERIAL Pure Gold Bentonite Chips + Type I Portland Cement

APPROX. VOLUME OF PLUGGING MATERIAL (cu ft.) 18 ft 3

PLUGGING METHOD ~~tremie~~ SLA 07/26/94 Grouting

REMARKS Used 6 bags of Pure Gold Bentonite Chips in the bottom of the boring to absorb the Groundwater. Topped dry portion of borehole off w/ 2 bags of Type I Portland Cement w/ 4% Aqua Pure Gold Bentonite

LAST ENTRY

RECORDED BY: [signature] (Signature) QA CHECKED BY: [signature] 8/12/94 (Signature)

W4104 Qd

07/26/94 0730-1347 pg 1 of 1

Martha Cramer
Susan L. Abston

B16 p. ~~29A~~ 30 SB 9/1/94

0730 Kieth McMahon informed us that the decision had been made to grout the borehole as usual but that we could use bentonite chips in the bottom to absorb the groundwater. He said to place all the cuttings and water from B16 around the ~~grout~~ surrounding borehole after we grouted it.

0810 Arrived at B16. Dennis Sink + Dwight Work (Bowser) Starting to pull augers. Henry Robinson (HP) on site

0850 ~~1900~~ SLA 07/26/94 Grouting borehole. Using 6 bags of Pure Gold bentonite chips w/ 2 bags of Miami's brand Type I Portland Cement. Top 1 ft of borehole topped off with dry cement due to the very wet nature of the drill cuttings at the surface.

0927 Complete grouting

0932 Opening drummed cuttings to spread them around the borehole.

0941 Poured water from B16 around borehole Henry wiping everything

0956 Henry scanned us out.

1000 Henry off site w/ wipes

1030 Off site → Drillers on standby

1215 Return to site to pick up equipment and move to next hole + decon

1347 Off site ≈ 85°F Partly Cloudy

Susan L Abston

QA'd by [illegible] 8/11/94

SB 9/1/94

SOLID MATRICES

SOIL
- [01] Surface (0-6 inches)
- [02] Subsurface (>6 inches)
- [09] Other

SEDIMENT / SLUDGES
- [11] Lake/Pond
- [12] River/Stream
- [13] Impoundment/Pond
- [14] Drum/Tank
- [19] Other

AIR SAMPLE
- [21] Filter
- [22] Sorbent
- [23] Sweepings/Fugitive Dust
- [24] Gases
- [29] Other

BIOLOGICAL/TERRESTRIAL
- [31] Biota
- [39] Other

GEO-TECHNICAL
- [41] Retained on #40
- [42] Retained on #200
- [43] Passed through #200
- [49] Other

LIQUID MATRICES

SURFACE WATER
- [51] Lake/Pond
- [52] River/Stream
- [53] Impoundment/Pond
- [54] Discharge
- [55] Spring/Seep
- [59] Other

GROUND WATER
- [61] Abandoned Well
- [62] Extraction Well
- [63] Injection Well
- [64] Irrigation Well
- [65] Lysimeter
- [66] Monitoring Well
- [67] Observation Well
- [68] Piezometer
- [69] Other
- [6A] Public Water Supply
- [6B] Purge Well
- [6C] Test Well
- [6D] Vapor Well
- [6E] Leachate Well

CONTAINERIZED

SEALED	UNSEALED
[71] Drum/Tank	[81] Drum/Tank
[79] Other	[89] Other

SB 9/1/94

W4104 Qnd

SAMPLE LOG SHEET

B16 P-34 8/11/94

PROJECT NAME: Mound Operational Area

PROJECT NO: 2680

SAMPLE ID NUMBER: B16001 DATE COLLECTED (MM/DD/YY): 6/29/94 TIME (HH:MM): 1355

SAMPLING -

LOCATION CODE: MNDOA

DESCRIPTION: MOUND OPERATIONAL AREA

POINT CODE: B16

DESCRIPTION: OPERAIONAL AREA BORING #16

FIELD OBSERVATIONS: RAD ANALYSIS ONLY

SAMPLE -

MEDIA CODE: 01

DESCRIPTION: Soil Surface (0 - 6 Inches)

DEPTH 0.00 TO ~~0.00~~ 2.00 FT

34 SB 8/11/94

SAMPLE TYPE:

- [x] GRAB
- [ ] TIME COMPOSITE
- [ ] QC RINSATE
- [ ] OTHER (SPECIFY)
- [ ] SPATIAL COMPOSITE
- [ ] QC TRIP BLANK
- [ ] QC FIELD BLANK

SAMPLE COLLECTED: [x] YES [ ] NO

SAP SAMPLING PROCEDURE WAS FOLLOWED: [x] YES [ ] NO FIELD CHANGE ORDER REFERENCE NO: NA

IF SAP WAS NOT FOLLOWED, SPECIFY WHAT DEVIATIONS WERE NECESSARY AND WHY (INCLUDE FIELD CHANGE ORDER REFERENCE NO.):

NA

RECORDED BY: DA CHECKED BY: 8/12/94

SAMPLE ID NUMBER: B16001 B16 P-34 35 8/11/94

CONTAINER VOLUME	CONTAINER	METHOD NAME AND NUMBER	PRESERVATIVES	B.O.L.	AIR BILL	CONTAINER

RECORDED BY: [signature] (SIGNATURE) QA CHECKED BY: [signature] 8/12/94

SAMPLE ID NUMBER: B16ØØ1 B16 p.31-35

CONTAINER VOLUME (ml)	CONTAINER TYPE	METHOD NAME AND NUMBER ANALYSIS	PRESERVATIVES (TYPE/VOL)	C-O-C #	AIR BILL #	CONTAINER LOT #	LABORATORY
2-25Ø	WM GLASS	RADS Pu,Th,U	NONE	OACØØ7	8219959834	SEE CONTAINER	COMPUC
2-25Ø	WM GLASS	RADS Ac,Sr,H3,GAMMA	NONE	↓	↓	LOT # LOG	COMPUC
		LAST ENTRY					

SAMPLE ID'S RINSATE: ERØØØ5 TRIP BLANK: NA FIELD BLANK: NA FIELD DUPLICATE: NA

RECORDED BY: [signature] (SIGNATURE) QA CHECKED BY: [signature] 8/12/94 (SIGNATURE)

8/12/94 35

SAMPLE LOG SHEET

B16 p 32-36 SB 9/1/94

PROJECT NAME: Mound Operational Area

PROJECT NO: 2680

SAMPLE ID NUMBER: B16002 DATE COLLECTED (MM/DD/YY): 6/29/94 TIME (HH:MM): 1411

SAMPLING -

LOCATION CODE: MNDOA

DESCRIPTION: MOUND OPERATIONAL AREA

POINT CODE: B16

DESCRIPTION: OPERAIONAL AREA BORING #16

FIELD OBSERVATIONS: VOA ONLY DUE TO HIT ON OVA OF 8-10 PPM

SAMPLE -

MEDIA CODE: 02

DESCRIPTION: Soil Subsurface (>6 Inches)

DEPTH ~~0.00~~ 2.00 TO ~~0.00~~ 4.00 FT

SB 9/1/94 SB 9/1/94 36

SAMPLE TYPE:

- [X] GRAB
- [ ] TIME COMPOSITE
- [ ] QC RINSATE
- [ ] OTHER (SPECIFY)
- [ ] SPATIAL COMPOSITE
- [ ] QC TRIP BLANK
- [ ] QC FIELD BLANK

SAMPLE COLLECTED: [X] YES [ ] NO

SAP SAMPLING PROCEDURE WAS FOLLOWED: [X] YES [ ] NO FIELD CHANGE ORDER REFERENCE NO: NA

IF SAP WAS NOT FOLLOWED, SPECIFY WHAT DEVIATIONS WERE NECESSARY AND WHY (INCLUDE FIELD CHANGE ORDER REFERENCE NO.):

NA

RECORDED BY: QA CHECKED BY: 8/12/94

SAMPLE ID NUMBER: B16002 B16 p 33-37 SB 9/1/94

CONTAINER VOLUME	CONTAINER	METHOD NAME AND NUMBER	PRESERVATIVES	C.O.C.#	AIR BILL #	CONTAINER	LABORATORY

SAMPLE ID NUMBER: B16ØØ2

B16 p.~~33~~37
8/8/94

CONTAINER VOLUME (ml)	CONTAINER TYPE	METHOD NAME AND NUMBER ANALYSIS	PRESERVATIVES (TYPE/VOL)	C-O-C #	AIR BILL #	CONTAINER LOT #	LABORATORY
~~2-25Ø~~	~~WM GLASS~~	RADS Pu,Th,U	~~NONE~~				~~COMPUC~~
~~2-25Ø~~	~~WM GLASS~~	~~RADS Ac,Sr,H3,GAMMA~~	~~NONE~~				~~COMPUC~~
1-12Ø	WM GLASS	VOA	~~NONE~~ 4°C	OAC007	8219959834	SEE CONTAINER LOT # LOG	COMPUC
			Last Entry				

SAMPLE ID'S RINSATE: ERØØØ5 TRIP BLANK: TBAØØ7 FIELD BLANK: ABØØØ3 FIELD DUPLICATE: NA

RECORDED BY: _____ (SIGNATURE) QA CHECKED BY: _____ 8/12/94 (SIGNATURE)

PWD 11/1/M

SAMPLE LOG SHEET

B16 p3438 8/11/94

PROJECT NAME: Mound Operational Area

PROJECT NO: 2680

SAMPLE ID NUMBER: B16ØØ3 DATE COLLECTED (MM/DD/YY): 6/29/94 TIME (HH:MM): 1429

SAMPLING -

LOCATION CODE: MNDOA

DESCRIPTION: MOUND OPERATIONAL AREA

POINT CODE: B16

DESCRIPTION: OPERAIONAL AREA BORING #16

FIELD OBSERVATIONS: RAD ANALYSIS ONLY

SAMPLE -

MEDIA CODE: Ø2

DESCRIPTION: Soil Subsurface (>6 Inches)

DEPTH ~~0.00~~ 5.ØØ TO ~~0.00~~ 7.ØØ FT

al 6/29/94

SAMPLE TYPE:

- [X] GRAB
- [ ] SPATIAL COMPOSITE
- [ ] TIME COMPOSITE
- [ ] QC TRIP BLANK
- [ ] QC RINSATE
- [ ] QC FIELD BLANK
- [ ] OTHER (SPECIFY) _____

SAMPLE COLLECTED: [X] YES [ ] NO

SAP SAMPLING PROCEDURE WAS FOLLOWED: [X] YES [ ] NO FIELD CHANGE ORDER REFERENCE NO: NA

IF SAP WAS NOT FOLLOWED, SPECIFY WHAT DEVIATIONS WERE NECESSARY AND WHY (INCLUDE FIELD CHANGE ORDER REFERENCE NO.):

NA

RECORDED BY: [signature] QA CHECKED BY: [signature] 8/12/94

RECORDED BY: [signature] (SIGNATURE) QA CHECKED BY: [signature] 8/12/94 (SIGNATURE)

SAMPLE ID NUMBER: B16Ø03 B16 0 35-39 58 9/1/94

CONTAINER VOLUME (ml)	CONTAINER TYPE	METHOD NAME AND NUMBER ANALYSIS	PRESERVATIVES (TYPE/VOL)	C-O-C #	AIR BILL #	CONTAINER LOT #	LABORATORY
2-25Ø	WM GLASS	RADS Pu,Th,U	NONE	OAC007	8219959834	SEE CONTAINER LOT # LOG	COMPUC
2-25Ø	WM GLASS	RADS Ac,Sr,H3,GAMMA	NONE	↓	↓		COMPUC
			Last Entry				

35 39 B16

SAMPLE ID'S RINSATE: ER0005 TRIP BLANK: NA FIELD BLANK: NA FIELD DUPLICATE: NA

RECORDED BY: [signature] (SIGNATURE) QA CHECKED BY: [signature] 8/12/94 (SIGNATURE)

SAMPLE LOG SHEET

B16 p. 35 40

PROJECT NAME: Mound Operational Area

PROJECT NO: 2680

SAMPLE ID NUMBER: B16ØØ4

DATE COLLECTED (MM/DD/YY): 6/29/94 6/30/94

TIME (HH:MM): 1545 0819

SAMPLING -

LOCATION CODE: MNDOA

DESCRIPTION: MOUND OPERATIONAL AREA

POINT CODE: B16

DESCRIPTION: OPERAIONAL AREA BORING #16

FIELD OBSERVATIONS: VOA AND 3 JARS FILLED ON 6/29/94 LAST RAD COLLECTED ON 6/30/94

SAMPLE -

MEDIA CODE: Ø2

DESCRIPTION: Soil Subsurface (>6 Inches)

DEPTH ~~Ø.ØØ~~ 10.00 TO ~~Ø.ØØ~~ 12.00 FT

36 40 Mills 65

SAMPLE TYPE:

- [X] GRAB
- [ ] TIME COMPOSITE
- [ ] QC RINSATE
- [ ] OTHER (SPECIFY)
- [ ] SPATIAL COMPOSITE
- [ ] QC TRIP BLANK
- [ ] QC FIELD BLANK

SAMPLE COLLECTED: [X] YES [ ] NO

SAP SAMPLING PROCEDURE WAS FOLLOWED: [X] YES [ ] NO

FIELD CHANGE ORDER REFERENCE NO: NA

IF SAP WAS NOT FOLLOWED, SPECIFY WHAT DEVIATIONS WERE NECESSARY AND WHY (INCLUDE FIELD CHANGE ORDER REFERENCE NO.):

NA

RECORDED BY: [signature] CHECKED BY: [signature] 8/12/94

SAMPLE ID NUMBER: B16ØØ4

B16 p. 35 41

CONTAINER VOLUME	CONTAINER TYPE	METHOD NAME AND NUMBER ANALYSIS	PRESERVATIVES (TYPE/VOL)	C-O-C #	AIR BILL #	CONTAINER	LABORATORY

RECORDED BY: [illegible] (SIGNATURE) QA CHECKED BY: [illegible] 8/12/94

SAMPLE ID NUMBER: B16ØØ4 B16 P.3F 4/ 5089/1/94

CONTAINER VOLUME (ml)	CONTAINER TYPE	METHOD NAME AND NUMBER ANALYSIS	PRESERVATIVES (TYPE/VOL)	C-O-C #	AIR BILL #	CONTAINER LOT #	LABORATORY
2-25Ø	WM GLASS	RADS Pu,Th,U	NONE	CAC ØØ8	8219960356	SEE CONTAINER	COMPUC
2-25Ø	WM GLASS	RADS Ac,Sr,H3,GAMMA	NONE	↓	↓	LOT #	COMPUC
1-12Ø	WM GLASS	VOA	4°C	↓	↓	LOG	COMPUC
			LAST ENTRY				

SAMPLE ID'S RINSATE: ERØØØ5 TRIP BLANK: TBAØØ8 FIELD BLANK: ΔBØØ13 FIELD DUPLICATE: NA

RECORDED BY: [illegible] (SIGNATURE) QA CHECKED BY: [illegible] 8/12/94 (SIGNATURE)

24 41

SAMPLE LOG SHEET

B16 P. 39-42 SB 9/1/94

PROJECT NAME: Mound Operational Area

PROJECT NO: 2680

SAMPLE ID NUMBER: B16ØØ5 DATE COLLECTED (MM/DD/YY): 6/30/94 TIME (HH:MM): ~~ØØ56~~ GC 6/30/94 Ø845

SAMPLING -

LOCATION CODE: MNDOA

DESCRIPTION: MOUND OPERATIONAL AREA

POINT CODE: B16

DESCRIPTION: OPERAIONAL AREA BORING #16

FIELD OBSERVATIONS:

RAD AND VOA

SAMPLE -

MEDIA CODE: Ø2

DESCRIPTION: Soil Subsurface (>6 Inches)

DEPTH ~~Ø.ØØ~~ GC 6/30/94 15.ØØ TO ~~Ø.ØØ~~ 18.ØØ FT

39-42 SB 9/1/94

SAMPLE TYPE:

- [X] GRAB
- [ ] TIME COMPOSITE
- [ ] QC RINSATE
- [ ] OTHER (SPECIFY)
- [ ] SPATIAL COMPOSITE
- [ ] QC TRIP BLANK
- [ ] QC FIELD BLANK

SAMPLE COLLECTED: [X] YES [ ] NO

SAP SAMPLING PROCEDURE WAS FOLLOWED: [X] YES [ ] NO FIELD CHANGE ORDER REFERENCE NO: NA

IF SAP WAS NOT FOLLOWED, SPECIFY WHAT DEVIATIONS WERE NECESSARY AND WHY (INCLUDE FIELD CHANGE ORDER REFERENCE NO.):

NA

RECORDED BY: [signature] 8/12/94

SAMPLE ID NUMBER: B16ØØ5

B16 P. 39-43 SB 9/1/94

CONTAINER VOLUME	CONTAINER	METHOD NAME AND NUMBER	PRESERVATIVES			CONTAINER

RECORDED BY: [signature] QA CHECKED BY: [signature] 8/12/94

SAMPLE ID NUMBER: B16005

B16 P.39-43 SB 7/1/94

CONTAINER VOLUME (ml)	CONTAINER TYPE	METHOD NAME AND NUMBER ANALYSIS	PRESERVATIVES (TYPE/VOL)	C-O-C #	AIR BILL #	CONTAINER LOT #	LABORATORY
2-250	WM GLASS	RADS Pu,Th,U	NONE	OAC008	8219960350	SEE CONTAINER	COMPUC
2-250	WM GLASS	RADS Ac,Sr,H3,GAMMA	NONE	↓	↓	LOT #	COMPUC
1-120	WM GLASS	VOA	4°C	↓	↓	LOG	COMPUC
		Last Entry					

39-43 Bahad

SAMPLE ID'S RINSATE: ER0005 TRIP BLANK: TBA008 FIELD BLANK: AB0003 FIELD DUPLICATE: NA

RECORDED BY: [signature] (SIGNATURE) QA CHECKED BY: [signature] 8/12/94 (SIGNATURE)

SAMPLE LOG SHEET

BIG P-44 SB 9/1/94

PROJECT NAME: Mound Operational Area

PROJECT NO: 2680

SAMPLE ID NUMBER: B16ØØ6 DATE COLLECTED (MM/DD/YY): Ø7/25/94 TIME (HH:MM): Ø937

SAMPLING -

LOCATION CODE: MNDOA

DESCRIPTION: MOUND OPERATIONAL AREA

POINT CODE: B16

DESCRIPTION: OPERAIONAL AREA BORING #16

SAMPLE -

MEDIA CODE: Ø2

DESCRIPTION: Soil Subsurface (>6 Inches)

DEPTH ~~Ø.ØØ~~ 2Ø.Ø TO ~~Ø.ØØ~~ 24.Ø FT

SB 9/1/94 P-44

SAMPLE TYPE:

- [X] GRAB
- [ ] TIME COMPOSITE
- [ ] QC RINSATE
- [ ] OTHER (SPECIFY)
- [ ] SPATIAL COMPOSITE
- [ ] QC TRIP BLANK
- [ ] QC FIELD BLANK

FIELD OBSERVATIONS: Composite sample from 20-24.0 ft BGS in order to have enough sample Weather = 75°F Partly Cloudy

SAMPLE COLLECTED: [X] YES [ ] NO

SAP SAMPLING PROCEDURE WAS FOLLOWED: [X] YES [ ] NO FIELD CHANGE ORDER REFERENCE NO: NA

IF SAP WAS NOT FOLLOWED, SPECIFY WHAT DEVIATIONS WERE NECESSARY AND WHY (INCLUDE FIELD CHANGE ORDER REFERENCE NO.):

NA

RECORDED BY: Susan T. Ulrich 8/12/94

SAMPLE ID NUMBER: B16ØØ6 BIG P-45 SB 9/1/94

CONTAINER VOLUME	CONTAINER	METHOD NAME AND NUMBER	PRESERVATIVES	C.O.C.#	AIR BILL #	CONTAINER	LABORATORY

RECORDED BY: Susan I Alston (SIGNATURE) QA CHECKED BY: [signature] 8/12/94

SAMPLE ID NUMBER: B16ØØ6 B16 pg 45 5891/94

CONTAINER VOLUME (ml)	CONTAINER TYPE	METHOD NAME AND NUMBER ANALYSIS	PRESERVATIVES (TYPE/VOL)	C-O-C #	AIR BILL #	CONTAINER LOT #	LABORATORY
2-25Ø	WM GLASS	RADS Pu,Th,U	NONE	OACØ19	821996Ø3Ø2	See Container	COMPUC
2-25Ø	WM GLASS	RADS Ac,Sr,H3,GAMMA	NONE	↓	↓	Lot # log	COMPUC
			LAST ENTRY				

SAMPLE ID'S RINSATE: ERØØØ5 TRIP BLANK: NA FIELD BLANK: NA FIELD DUPLICATE: NA

RECORDED BY: Susan I Alston (SIGNATURE) QA CHECKED BY: [signature] 8/12/94 (SIGNATURE) V

SAMPLE LOG SHEET

B16 ~~B42~~ #6 JB 9/1/94

PROJECT NAME: Mound Operational Area

PROJECT NO: 2680

SAMPLE ID NUMBER: B16ØØ7 DATE COLLECTED (MM/DD/YY): Ø7/25/94 TIME (HH:MM): 1Ø16

SAMPLING -

LOCATION CODE: MNDOA

DESCRIPTION: MOUND OPERATIONAL AREA

POINT CODE: B16

DESCRIPTION: OPERAIONAL AREA BORING #16

FIELD OBSERVATIONS: Duplicate sample collected

SAMPLE -

MEDIA CODE: Ø2

DESCRIPTION: Soil Subsurface (>6 inches)

DEPTH ~~Ø.ØØ~~ 26.Ø TO ~~Ø.ØØ~~ 3Ø.Ø FT

~~B42~~ #6 JB 9/1/94

SAMPLE TYPE: JHD 8/12/94

- [X] GRAB
- [ ] TIME COMPOSITE
- [ ] QC RINSATE
- [ ] OTHER (SPECIFY)
- [ ] SPATIAL COMPOSITE
- [ ] QC TRIP BLANK
- [ ] QC FIELD BLANK

SAMPLE COLLECTED: [✓] YES [ ] NO

SAP SAMPLING PROCEDURE WAS FOLLOWED: [✓] YES [ ] NO FIELD CHANGE ORDER REFERENCE NO: NA

IF SAP WAS NOT FOLLOWED, SPECIFY WHAT DEVIATIONS WERE NECESSARY AND WHY (INCLUDE FIELD CHANGE ORDER REFERENCE NO.):

NA

[redacted] 8/12/94

CONTAINER

1216 P43 47

JB 9/1/94

RECORDED BY: [illegible] (SIGNATURE) QA CHECKED BY: [illegible] 8/12/94

SAMPLE ID NUMBER: B16ØØ7

B16 pg 43-47

CONTAINER VOLUME (ml)	CONTAINER TYPE	METHOD NAME AND NUMBER ANALYSIS	PRESERVATIVES (TYPE/VOL)	C-O-C #	AIR BILL #	CONTAINER LOT # SB 9/1/94	LABORATORY
2-25Ø	WM GLASS	RADS Pu,Th,U	NONE	OACØ19	8219960302	See Container Lot # log	COMPUC
2-25Ø	WM GLASS	RADS Ac,Sr,H3,GAMMA	NONE	↓	↓		COMPUC
1-125	Glass	Volatile	~~OPH 8/11/94 Above~~ Cool 4C	↓	↓		Compuc
		LAST ENTRY					

43-47 SB 9/1/94

SAMPLE ID'S RINSATE: ERØØØ8 TRIP BLANK: TBAØ19 FIELD BLANK: ABØØØ5 FIELD DUPLICATE: B16 1Ø7 (Rads Only)

RECORDED BY: [illegible] (SIGNATURE) QA CHECKED BY: [illegible] 8/12/94 (SIGNATURE)

SAMPLE LOG SHEET

PROJECT NAME: Mound Operational Area

PROJECT NO: 2680 B16 ~~60~~ 66

SAMPLE ID NUMBER: B16107 DATE COLLECTED (MM/DD/YY): 7/25/94 TIME (HH:MM): 1016

SAMPLING -

LOCATION CODE: MNDOA

DESCRIPTION: Mound Operational Area

POINT CODE: B16

DESCRIPTION: Operational Area Boring #16

SAMPLE -

MEDIA CODE: 01

DESCRIPTION: Soil Surface (0 - 6 Inches)

DEPTH ~~0.00~~ 26.0 TO ~~5.00~~ 30.0 FT

SAMPLE TYPE:

- [ ] GRAB
- [ ] SPATIAL COMPOSITE
- [ ] TIME COMPOSITE
- [ ] QC TRIP BLANK
- [ ] QC RINSATE
- [ ] QC FIELD BLANK
- [x] OTHER (SPECIFY) QC Field Duplicate

FIELD OBSERVATIONS: Duplicate of radiological sample only.

SAMPLE COLLECTED: [x] YES [ ] NO

SAP SAMPLING PROCEDURE WAS FOLLOWED: [x] YES [ ] NO FIELD CHANGE ORDER REFERENCE NO: NA

IF SAP WAS NOT FOLLOWED, SPECIFY WHAT DEVIATIONS WERE NECESSARY AND WHY (INCLUDE FIELD CHANGE ORDER REFERENCE NO.):

NA

RECORDED BY: Jolitta Humpert QA CHECKED BY: [illegible] 8/12/94

SAMPLE ID NUMBER: B16107 B16 P-61 67

CONTAINER VOLUME (ml)	CONTAINER TYPE	METHOD NAME AND NUMBER ANALYSIS	PRESERVATIVES (TYPE/VOL)	C-O-C #	AIR BILL #	CONTAINER LOT #	LABORATORY
~~1-120~~	WM Glass	CLPVOA	Cool,4C				~~COMPUC~~
~~1-250~~	~~AmbGlass~~	~~SVOC,PEST/PCB~~	~~Cool,4C~~				~~COMPUC~~
~~1-250~~	~~AmbGlass~~	~~EXPLOSIVES~~	~~Cool,4C~~				~~COMPUC~~
~~1-250~~	~~WM Glass~~	~~ANIONS Fl,SO4,Cl,NØ2/NØ3~~	Cool,4C				~~COMPUC~~
~~1-250~~	~~WM Glass~~	~~METALS,Cyanide~~	Cool,4C				~~COMPUC~~
~~1-120~~	Poly	~~LANTHANIDES~~	~~Cool,4C~~				~~COMPUC~~
~~1-120~~	~~AmbGlass~~	~~TOTAL ORGANIC CARBON~~	~~Cool,4C~~				~~COMPUC~~
2-250	WM GLASS	RADS Ac,Sr,H3,GAMMA	NONE	OACØ19	821996Ø3Ø2	See Container lot # log	COMPUC
2-250	WM GLASS	RADS Pu,Th,U	NONE	↓	↓		COMPUC

SAMPLE ID'S RINSATE: ERØØØ8 TRIP BLANK: NA FIELD BLANK: NA FIELD DUPLICATE: B16ØØ7

RECORDED BY: Jolitta Humpert (SIGNATURE) QA CHECKED BY: [illegible] 8/12/94 (SIGNATURE)

SAMPLE LOG SHEET

B16 p 6672 SB 9/11/94

PROJECT NAME: MOUND OUS OPERATIONAL AREA

PROJECT NO: 2680

SAMPLE ID NUMBER: W16 ØØ1

DATE COLLECTED (MM/DD/YY): 6/30/94

TIME (HH:MM): 1143

SAMPLING -

LOCATION CODE: MNDOA

DESCRIPTION: MOUND OPERATIONAL AREA

POINT CODE: B16

DESCRIPTION: OPERATIONAL AREA BORING #16

FIELD OBSERVATIONS: COLLECTED WITH BAILER

SAMPLE -

MEDIA CODE: 69

DESCRIPTION: OTHER GROUNDWATER JRD 8/12/94

DEPTH ~~NA~~ 17.0 JRD 8/12/94 ~~NA~~ 18.5 ~~NA~~ FT

JRD 8/12/94 SB 9/11/94

SAMPLE TYPE:

- [X] GRAB
- [ ] TIME COMPOSITE
- [ ] QC RINSATE
- [ ] OTHER (SPECIFY)
- [ ] SPATIAL COMPOSITE
- [ ] QC TRIP BLANK
- [ ] QC FIELD BLANK

SAMPLE COLLECTED: [X] YES [ ] NO

SAP SAMPLING PROCEDURE WAS FOLLOWED: [X] YES JRD 8/12/94 [X] NO

FIELD CHANGE ORDER REFERENCE NO: Ø5-NP-Ø12

IF SAP WAS NOT FOLLOWED, SPECIFY WHAT DEVIATIONS WERE NECESSARY AND WHY (INCLUDE FIELD CHANGE ORDER REFERENCE NO.):

PACKER NOT USED ON WELL POINT. SEE ABOVE TRPC

RECORDED BY: (SIGNATURE)

QA CHECKED BY: 8/12/94 (SIGNATURE)

SAMPLE ID NUMBER: W16 ØØ1

B16 p 6673 SB 9/11/94

CONTAINER	CONTAINER	METHOD NAME AND NUMBER				

(SIGNATURE) (SIGNATURE)

[redacted]

SAMPLE ID NUMBER: W16 0001 B16 p 69-73

CONTAINER VOLUME (ml)	CONTAINER TYPE	METHOD NAME AND NUMBER ANALYSIS	PRESERVATIVES (TYPE/VOL)	C-O-C #	AIR BILL #	CONTAINER LOT # (SB 9/11/94)	LABORATORY
2 - 1000	POLY	RADS, Pu, Th, U, Am	HNO3 TO PH<2	OAC 008	8219960350	SEE	COMPUC
2 - 1000	POLY	RADS Ac, Ra, Sr, GAMMA	HNO3 TO PH<2	↓	↓	CONTAINER LOT #	COMPUC
1 - 1000	GLASS	TRITIUM	NONE	↓	↓	LOG	COMPUC
		LAST ENTRY					

Log 73 SB 9/11/94

SAMPLE ID'S RINSATE: ER0004 TRIP BLANK: TB0008 FIELD BLANK: AB0002 FIELD DUPLICATE: NA

RECORDED BY: (SIGNATURE) QA CHECKED BY: 8/12/94 (SIGNATURE)

GROUNDWATER QUALITY SAMPLING RECORD

SOIL BORING: BIG PIT 81

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1

PROJECT NO. 34896

PAGE 1 OF 1

FACILITY CODE: ~~NA~~ MND21

LOT CONTROL NO.: NA

LOCATION ID: 316

SAMPLE TYPE: F

SAMPLE ID: W16 001

ACCEPTANCE CODE: ~~NA~~ A

LOG DATE: 6/30/94

LOGGER CODE: ~~NA~~ SAIC

ANALYICAL LAB CODE: ~~NA~~ COMP

INITIAL GROUNDWATER DEPTH (FT): 17.0'

SAMPLE DEPTH (FT): 17.0'-18.5'

SAMPLING PERIOD: START 1143

COMPLETE 1203

SAMPLING METHOD: B

DATE SENT: 6/30/94

COMMENTS NONE

FINAL PARAMETER MEASUREMENTS:

POTENTIAL OF HYDROGEN	pH	S.U.	7.41
SPECIFIC CONDUCTANCE	Ec	umhos/cm	2.84
REDOX POTENTIAL	Eh	mvolts	NR
TEMPERATURE	TMP	°C	15.3
ALKALINITY ($CaCO_3$)	ALK	mg/l	303
DISSOLVED OXYGEN	DO	mg/l	2.15

TIME	TOTAL VOLUME WITHDRAWN (GALS)	TOTAL VOLUME WITHDRAWN (Bore Volume)	pH	Ec (umhos/cm)	TEMP (°C)	COMMENTS
1120	0.5	2	6.95	257	18.0	NONE
1127	1.5	6	7.08	263	15.7	
1133	2.5	10	7.13	273	15.2	
1139	4.0	16	7.16	277	15.2	
1145	4.5	18	7.21	279	15.2	
1203	7.0	28	7.41	284	15.3	
				LAST ENTRY		

ACCEPTANCE CODES: A - ACCEPTABLE, R - RECONNAISSANCE, U - UNACCEPTABLE, N - NOT DETERMINED

SAMPLE TYPES:
F - FIELD, R - REPLICATE, K - KNOWN, A - ACID BLANK

SAMPLING METHODS:
BP - BLADDER PUMP, PP - PERISTALIC PUMP, G - GRAB, B - BAILER, AL - AIR-LIFT SAMPLER, SL - SUCTION LIFT PUMP, SP - SUBMERSIBLE PUMP

COMPLETE BOLDED DATA FOR ENTRY INTO TIMS

6/30/94
FORM COMPLETED BY / DATE

8/12/94
TECHNICAL REVIEWER / DATE

94 81
SB

GROUNDWATER QUALITY SAMPLING RECORD

SOIL BORING B16 P. 76 83

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1

PROJECT NO: 34896 SB 9/1/94

PAGE 1 OF 1

FACILITY CODE: MND21

LOCATION ID: B16; SAMPLE W16001 LOG DATE: 6/30/94

BORE VOL CALCULATION (GAL)

$\frac{d^2\pi}{4}$ $(h_1 - h_2)$ X 7.48

JMD .028 8/12/94 $\frac{(.67)(3.14)}{4}$ (18.5-17.0) (7.48) = .247 GAL

SAMPLING INFORMATION

DEPTH OF WELL (h2) (ft): 18.5

DEPTH TO WATER (h1) (ft): 17.0

WELL DIAMETER (ft): JMD 8-12-94 .67 2" = 1.67'

ONE BORE VOLUME (GAL): ~~5.4~~ .247 JMD 8/12/94

SCREENED INTERVAL (ft): NA 17.0-18.5

FIELD REP: G. LODER

INSTRUMENT(S) USED: pH conductivity, temp, DO, Redox, OVA, LEL

WITDRAWL METHOD: BAILER

FILTER SIZE: NA

THERMOMETER ID: NA

Ec METER ID: 2179

pH METER ID: 2025

PUMP ID: NA

ALKALINITY KIT ID: HACH AL-DT

CALIBRATION INFORMATION

DATE/TIME OF LAST Ec CALIBRATION: 6/27/94

TIME OF pH CALIBRATION: 1143 6/30/94

FOR STANDARD pH 7, INSTRUMENT READING: 6.98 SU

FOR STANDARD pH 4, INSTRUMENT READING: 3.93 SU

FOR STANDARD pH 10, INSTRUMENT READING: NR

Eh OF CALIBRATION SOLUTION: 1,000 AND 10,000 µohms/cm

Eh READING IN CALIBRATION SOLUTION AFTER MEASUREMENT: NR

TEMP OF CALIBRATION SOLUTION (°C): 3°C-25°C

SHIPPING INFORMATION

LAB(S) SHIPPED TO:	COMPUCHEM	NA	NA
DATE(S) SHIPPED:	6/30/94	↓	↓
METHOD OF SHIPMENT:	FEDEX	↓	↓

COMMENTS: NONE

76 83
SB 9/1/94

GROUNDWATER QUALITY SAMPLING RECORD

SOIL BORING: B16 P. 78 85

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1

PROJECT NO.: 34896

PAGE 1 OF 1

FACILITY CODE: MND21

LOCATION ID: B016 SAMPLE W16001

LOG DATE: 6/30/94

ERROR AT 4.50: $\frac{X1 - X2}{XS}$ X 100 = 2.6 %

1st = 2.6 %

2nd = NA %

INITIAL pH 7.09

pH CHECK AFTER TITRATION

JMD 6/30/94

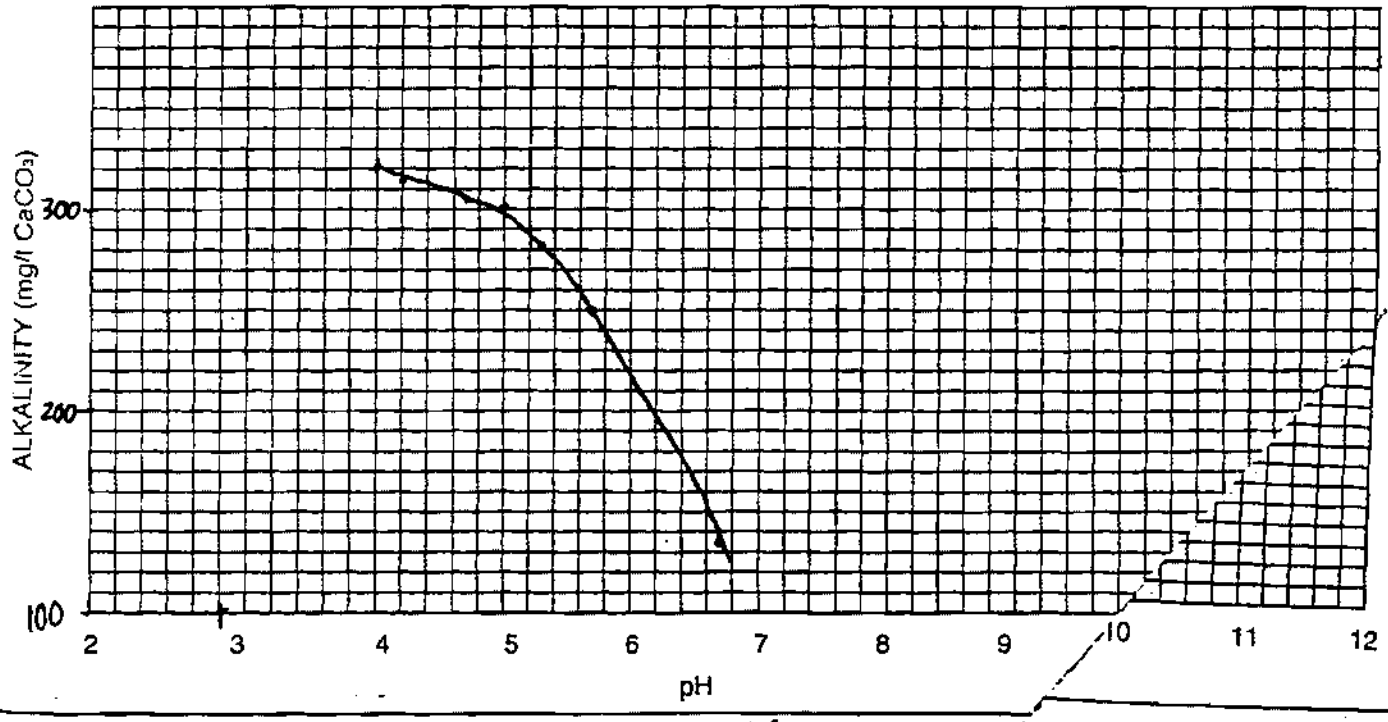
7.00 = ~~7.00~~ 6.98

JMD 6/30/94

4.00 = ~~4.00~~ 3.93

SLOPE = 95.8

pH	ALKALINITY (mg/l $CaCO_3$)		
	1st	2nd	3rd
8.90	NR	NR	NA
8.60			
8.30			
8.05			
7.80			
7.50			
6.50	134	110	
5.70	258	245	
5.10	292	293	
4.80	299	305	
4.50	303	311	
4.25	306	314	
4.00	308	318	



~~78~~ 85

SB 9/1/94

STANDARD ELECTRICAL CONDUCTIVITY DATA

SOIL BORING B10 pg 87

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1

PROJECT NO.: 34896

FACILITY CODE: MND21

LOGGER CODE: SAIC

LOG DATE: 6/27/94

ACCEPTANCE CODE: A

MANUFACTURER/Ec METER ID: YSI MODEL 3000; SN: 910029512 HAZCO #2179

ELECTRICAL CONDUCTIVITY OF KNOWN SOLUTIONS AT 25° C:	
KNOWN (mg/l KCl)	Ec (meter)
1000	1147
NA	NA
NA	NA

Ec	TEMPERATURE (ºC) LAB THERMOMETER	TEMPERATURE (ºC) (Ec METER)
NR	0	NR
↓	1	↓
↓	2	↓
0.877	3	16.8
0.887	4	16.1
0.899	5	16.2
0.908	6	16.2
0.923	7	16.3
0.9606	8	16.5
0.975	9	16.7
0.980	10	16.8
0.982	11	17.0
0.986	12	17.1
0.990	13	17.2
0.995	14	17.4
1.001	15	17.6
1.019	16	17.8
1.030	17	18.0
1.036	18	18.4
1.048	19	18.7
1.062	20	19.2
1.077	21	19.7
1.086	22	20.1
1.099	23	20.7
1.128	24	21.8
1.147	25	22.5

COMPLETE BOLDED DATA FOR ENTRY INTO TIMS

Jeffrey Brown 9/1/94 — FORM COMPLETED BY / DATE

9/1/94 — TECHNICAL REVIEWER / DATE

~~80~~ 87

SB 9/1/94

A.5 SAMPLE MANAGER LOGBOOK

EG & G MOUND

OU5 OPS AREA

PHASE I

SAMPLE MGR.

LOGBOOK

OPS AREA

SAMPLE MANAGER LOG BOOK

PROJECT TITLE: EG&G MOUND OU5 NEW PROPERTY EXTENDED PHASE RI/FS FIELD INVESTIGATIONS

WORK SITE: *MOUND PLANT*
Miamisburg, Ohio
OU5 New Property

ACTIVITY: *Mound OU5 New Property Phase 1 RI/FS*
Field Investigations

CONTRACT #: *BOA 52264*
TASK ORDER: *34896*

PROJECT MANAGER: *Thomas Tank*
COMPANY NAME / ADDRESS: *Science Applications International Corporation*
4031 Colonel Glenn Hwy ,Dayton, Ohio 45431
TELEPHONE NUMBERS: *(513) 429-2699*

SUPERVISORS: *OU5 Manager: Alan Spesard (513)865-3859*
SAIC Proj. Manager: Thomas Tank (513)429-2699

EMERGENCY RESPONCE: *Police / Ambulance / Fire 911 or 865-4040*

PROCEDURES: *SOP 1.1, SOP 2.2, SOP 3.1, SOP 4.1, SOP 4.3, SOP 4.4, SOP 5.1, SOP 6.1, SOP 6.3*

START DATE: 6/20/94
END DATE: 9/14/94

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pg. I

SAMPLE MANAGER
OPS

PROJECT NAME: EG&G MOUND OU5 NEW PROPERTY, EXTENDED PHASE

PROJECT NO: 134896

PAGE	FIELD LOG	PAGE	FIELD LOG
1	Task Team Activity Log Sheet 6/20/94	31	Task Team Activity 8/9/94
2	Task Team Activity Log Sheet 6/21/94	32	Task Team Activity 8/10/94
3	↓	33	Task Team Activity 9/14/94
4	Task Team Activity 6/22/94	34	NO ENTRY
5	↓	35	
6	Task Team Activity 6/23/94	36	
7	Task Team Activity 6/27/94	37	
8	Task Team Activity 6/28/94	38	
9	Task Team Activity 6/29/94	39	
10	↓	40	
11	Task Team Activity 6/30/94	41	
12	Task Team Activity 7/5/94	42	
13	Task Team Activity 7/6/94	43	
14	Task Team Activity 7/7/94	44	
15	Task Team Activity 7/7/94	45	
16	Task Team Activity 7/8/94	46	
17	Task Team Activity 7/11/94	47	
18	↓	48	
19	Task Team Activity 7/12/94	49	
20	Task Team Activity 7/13/94	50	
21	Task Team Activity 7/14/94	51	
22	↓	52	
23	Task Team Activity 7/19/94	53	
24	Task Team Activity 7/20/94	54	
25	Task Team Activity 7/21/94	55	
26	Task Team Activity 7/22/94	56	
27	Task Team Activity 7/25/94	57	
28	Task Team Activity 7/26/94	58	
29	Task Team Activity 7/27/94	59	
30	Task Team Activity 8/8/94	60	↓

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Pg. II

SAMPLE MANAGER: OPS

PROJECT NAME: EG&G MOUND OUS NEW PROPERTY, EXTENDED PHASE

PROJECT NO.: 34896

PAGE	FIELD LOG	PAGE	FIELD LOG
61	NO ENTRY	91	NO ENTRY
62		92	"
63		93	QA Tracking Lists
64		94	
65		95	
66		96	
67		97	
68		98	
69		99	
70		100	Blank Page
71		101	Blank Page
72		102	Sample Log Sheet ERØØØ1
73		103	
74		104	Sample Log Sheet ERØØØ2
75		105	
76		106	Sample Log Sheet ERØØØ3
77		107	
78		108	Sample Log Sheet ERØØØ4
79		109	
80		110	Sample Log Sheet ERØØØ5
81		111	
82		112	Sample Log Sheet ERØØØ6
83		113	
84		114	No Entry
85		115	
86		116	Sample Log Sheet ERØØØ8
87		117	
88		118	Sample Log Sheet ERØØØ9
89		119	
90		120	Sample Log Sheet ERØØ1Ø

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PG III

SAMPLE MANAGER: OPS

PROJECT NAME: EG&G MOUND OU5 NEW PROPERTY, EXTENDED PHASE

PROJECT NO.: 34896

PAGE	FIELD LOG	PAGE	FIELD LOG
121	Sample Log Sheet ERØØ1Ø	151	Sample Log Sheet BBØØØ1
122	Sample Log Sheet ERØØ11	152	Sample Log Sheet BBØØØ2
123	↓	153	↓
124	NO ENTRY	154	Sample Log Sheet BBØØØ3
125		155	↓
126		156	Sample Log Sheet BBØØØ4
127		157	↓
128		158	Sample Log Sheet BBØØØ5
129	↓	159	↓
130	Blank Page	160	Sample Log Sheet BBØØØ6
131	Blank Page	161	↓
132	Sample Log Sheet ABØØØ1	162	NO ENTRY
133	↓	163	
134	Sample Log Sheet ABØØØ2	164	
135	↓	165	↓
136	Sample Log Sheet ABØØØ3	166	Blank Page
137	↓	167	↓
138	Sample Log Sheet ABØØØ4	168	NO ENTRY
139	↓	169	
140	Sample Log Sheet ABØØØ5	170	
141	↓	171	
142	Sample Log Sheet ABØØØ6	172	
143	↓	173	
144	NO ENTRY	174	
145		175	
146		176	
147	↓	177	
148	Blank Page	178	
149	↓	179	
150	Sample Log Sheet BBØØØ1	180	↓

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Pg IV

SAMPLE MANAGER: OPS

PROJECT NAME: EG&G MOUND OU5 NEW PROPERTY EXTENDED PHASE

PROJECT NO: 34896

PAGE	FIELD LOG	PAGE	FIELD LOG
181	NO ENTRY	211	Sample Container Lot # Log
182		212	
183		213	
184		214	
185		215	
186	Blank Page	216	
187	Sample ID/COC Tracking Form	217	
188		218	
189		219	
190		220	
191		221	
192		222	
193	NO ENTRY	223	
194		224	
195		225	NO ENTRY
196		226	"
197		227	Trip Blank Tracking Form
198		228	NO ENTRY
199		229	END OF BOOK; NO MORE ENTRIES
200		230	
201		231	
202		232	
203		233	
204		234	
205		235	
206		236	
207	Sample Container Lot # Log	237	
208		238	
209		239	
210		240	

TASK TEAM ACTIVITY LOG SHEET

SAMPLE MANAGER: OPS

PROJECT NAME: EG&G MOUND OU5 NEW PROPERTY, EXTENDED PHASE

TASK NO.: 34896

Date (mm/dd/yy): 6/20/94 TIME: NA PAGE 1 OF 1

Task Team Members:

Joletta Minard pg. 1

Narrative (include time and location):

0700 Onsite - Prepping sample jars for rig.
0830 Collected equipment rinsate (ER0001) using ASTM Type II DI Water on bowl and spoons.
0930 Out working at drill rig with J. Davis. Delivering equipment to rig.
1000 Onsite at cable tool rig collecting ambient.
1030 Back to Area 7 rig, collecting samples B01001-B01003.
1045 Collected Ambient blank (AB0001) using ASTM Type II DI water. Brought B01001 and B01002 back to trailer to keep cool. gpH 6/20/94
1115 Collected sample bank blank (~~B~~BB0001) in sample trailer while packaging B01002.
1200 New Property crews brought in water sample. Also more samples from Area 7 rig.
1200-1430 Packaging samples. Preserving and packaging water sample.
1430-1500 Drove to Fedex to pick up bottles and samplesavers.
1530 Returned to site with bottles. Unloaded van. gpH 6/20/94
1600-1800 Packed eleven samplesavers. Airbill #~~9289476512~~ #9289476350. Delivered to fedex offsite. Fast Entry.

Daily Weather Conditions: A.M. Hot! 76°F, sunny, v. humid

P.M. Hotter! 98°F, sunny, v.v. humid, rain (late)

Recorded By Joletta Humpert QA Checked By Laura M. Morrison 8/17/94

TASK TEAM ACTIVITY LOG SHEET — SAMPLE MANAGER: OPS

PROJECT NAME: EG&G MOUND OU5 NEW PROPERTY, EXTENDED PHASE — TASK NO.: 34896

Date (mm/dd/yy): 6-21-94 TIME: NA PAGE 1 OF 2

Task Team Members: pg. 2

Joletta Humpert

Eric Saylor

Narrative (include time and location):

0700 Onsite at sample trailer. Morning briefing by J. Davis. Prepping crews.

0800 Packaging B01007 collected on 6/20/94.

0900 Prepping trailer for arrival of a magnitude of sample boxes.

1130 Began prepping sample jars for B01001. Also preparing to collect ER0002.

Following conversation with A. Meyer, it was decided that a separate rinsate would be collected for surface and subsurface soil samples due to differences in parameters to be analyzed.

Surface soil samples include Bi, Li, and Mo, whereas subsurface soil samples are analyzed for Bi only.

Per A. Meyer, it was also decided that we would need to mark Ra-226 and Am-241 for water samples only. Do not mark Actinium for water or soil samples.

1200 Collected rinsate ER0002 for subsurface samples. Preserved appropriate samples and checked with

Daily Weather Conditions: A.M. Hot, 76°F, sunny

P.M. Hot, 92°F, sunny, rain late aft.

Recorded By Joletta Humpert QA Checked By Laura M. Morrison 9/17/94

TASK TEAM ACTIVITY LOG SHEET

SAMPLE MANAGER OPS

PROJECT NAME: EG&G MOUND OU5 NEW PROPERTY, EXTENDED PHASE

TASK NO.: 34896

Date (mm/dd/yy): 6-21-94 TIME: NA PAGE 2 OF 2

Task Team Members:

J. Humpert

E. Saylor

Pg. 3

Narrative (include time and location):

litmus paper. Placed samples in fridge for holding

1230 Received B02001 for packaging. Also Received B40702 from New Property.

1400 Fedex finally arrives with close to 100 boxes (to many to count). Began unpacking bottles, blue ice and temp. strips from boxes.

1500 Sent E. Saylor to pick up sample from rig.

1530 Packaged samples - B02001.

1545 Contacted P. Bidard from NERI (soilgas) and packaged timers from non-AOC area.

1600 Instructed E. Saylor to begin packing Ops Area samplesavers.

1615 Crew returns from drill rig and delivers B02002 for packaging.

1630-1745 Packing samplesavers. Total of 8 boxes.
Airbill # 8219959451

1748-1815 Delivery to Fedex with M. Cramer.
Offsite @ 1815
Last Entry

Daily Weather Conditions: A.M. NA

P.M. NA

Recorded By Joletta Humpert QA Checked By Laura M. Morrison 8/17/94

TASK TEAM ACTIVITY LOG SHEET — SAMPLE MANAGER: OPS

PROJECT NAME: EG&G MOUND OU5 NEW PROPERTY, EXTENDED PHASE — TASK NO.: 34896

Date (mm/dd/yy): 6-22-94 TIME: NA PAGE 1 OF 2

Task Team Members:

Joletta Humpert (SAIC) Pg. 4

Narrative (include time and location):

0720 Onsite. Prepping bottles for crews

0800-0845 Packaging sample bottles for D. Gault for PE samples

0930 Went to B04 to pick up samples from drill crew and remind them to collect duplicate and use rinsate bowl. Picked up B04001

1030 Out at cable tool rig collecting B39801. Return to trailer to package and label samples.

1100 Packaging B40501 and B40502 from hollow-stem rig.

1130 Received B04002 and B04102 (duplicate) for packaging from G. Loder-area 7.

1300 Packaging geotechnical samples from New Property - B40521, B40721, and B40821.

1430 E. Saylor went to pick up samples from Ops Area. Packaged B05001.

1500 Talked to A. Meyer. Explained to her what happened with B01007. Samples were collected for analysis on 6/20/94 and 6/21/94. Crews were stopped during collection on 6/20/94 due to a

Daily Weather Conditions: A.M. Hot, @ 80°F, sunny.

P.M. Hot, @ 90°F, sunny

Recorded By Joletta Humpert QA Checked By Laura M. Monsor 8/17/94

TASK TEAM ACTIVITY LOG SHEET

SAMPLE MANAGER: OPS

PROJECT NAME: EG&G MOUND OU5 NEW PROPERTY, EXTENDED PHASE

TASK NO.: 34896

Date (mm/dd/yy): 6/22/94 TIME: NA PAGE 2 OF 2

Task Team Members:

J.H. pg. 5

Narrative (include time and location):

lightening alarm. Crews completed collecting B01007 on 6/21/94 - collected Rads P,T,V and two gamma spec jars. Lab contacted by A. Meyer - lab will use 6/20/94 for collection date and SAIC will use 6/20/94 for database

1530 Began packing samplesavers for NP samples Packed 4 boxes. Airbill # 8219960232

1645 Left to drop boxes at fedex

Offsite - fast Entry

Daily Weather Conditions: A.M. NA

P.M. NA.

Recorded By Juletta Humpert QA Checked By Laura M. Morrison 8/17/94

TASK TEAM ACTIVITY LOG SHEET — SAMPLE MANAGER: OPS

PROJECT NAME: EG&G MOUND OU5 NEW PROPERTY, EXTENDED PHASE — TASK NO.: 34896

Date (mm/dd/yy): 6-23-94 TIME: NA PAGE 1 OF 1

Task Team Members: Pg. 6

Joletta Humpert

Evelyn Meager-Hartzell

Narrative (include time and location):

0700 Onsite at sample teardor. Packing sample bottles for crews.

0730 Collecting Rinsate for NP - ER00116.

0900 Worked with EMH to unpack sample savers.

1000 Sent EMH to pick up samples from G. Loder

1030 Packaging samples from Area 7 (B030001 and B030002).

1200 Packaging samples from Area 7 (~~B03~~ 3004 B030003).

1300 Went to lunch

1400 Thunderstorm rolled in - lightening alarm.

1400-1530 Rain!

1530 Received soil screening results from HP

1600 Packaging samples from Ops Area.

1630 G. Loder stated that he had another half a sample from B03 (B030004 - VOA, TOC, Lanthanides, SVOC/Pest/PCB, and Metal/Cyn samples sent - others still to be collected). Airbill # 8219960405.

Recopied COC information. Repacked boxes.

No samples shipped for New Property.

Offsite @ 1730 after assisting J. Schultheis in packaging OU9 samples. Fast Entry.

Daily Weather Conditions: A.M. Hot @ 75°F

P.M. Hot @ 85°F, Rain @ 1430

Recorded By Joletta Humpert QA Checked By Laura M. Marson 8/17/94

TASK TEAM ACTIVITY LOG SHEET

SAMPLE MANAGER: OPS

PROJECT NAME: EG&G MOUND OU5 NEW PROPERTY, EXTENDED PHASE

TASK NO.: 34896

Date (mm/dd/yy): 6-27-94 TIME: NA PAGE 1 OF 1

Task Team Members:

Pg. 7

Joletta Humpert

George Wahl

Narrative (include time and location):

0630 Onsite @ sample trailer. Working with soil gas crew to determine sampling strategy.

0700 Collecting ER0016 for New prop. rig.

0830 Packaging sample jars for drill crews.

0900 Went out to Area 7 drill rig to collect ambient and sample bank blanks.

0915 Not drilling yet. Waiting for HP to arrive.

0945 Collecting rinsate for New Prop. groundwater bailer, ER0017.

1030 Packaging samples - rinsate. Went to Area 7 rig to collect ambient. AB0002 for groundwater

1200 Received B03004, B03005, and W03001 for packaging. Collected BB0002 for Ops Area

1500 Began packaging sample savers. Received B40602 from Ops Area.

1600 Received B03006 from Ops Area.

1730 Offsite to deliver to fedex. Total of 10 boxes. Airbill # ~~821995786~~ 6/30/94, Last Entry. 821996372.

Daily Weather Conditions: A.M. 70°F, cloudy

P.M. 80°F, cloudy

Recorded By Joletta Humpert QA Checked By Tuna M. Morrison 8/17/94

TASK TEAM ACTIVITY LOG SHEET — SAMPLE MANAGER: OPS

PROJECT NAME: EG&G MOUND OU5 NEW PROPERTY, EXTENDED PHASE — TASK NO.: 34896

Date (mm/dd/yy): 6-28-94 TIME: NA PAGE 1 OF 1

Task Team Members:
Joletta Humpert pg. 8
George Wahl

Narrative (include time and location):

0700 Onsite at sample trailer. Prepping sample jars for crews.
0730 Collecting Rinsate ER0003 for subsurface samples.
0900 Completing paperwork.
1030 Packaging B40002; unpacking samplesavers.
1200 Sorting Labels. Packaging B40901, B40902, and B03007.
*1400 Unpacking sample savers. Moving samplesavers from Weston trailer to SAIC semi-storage area with help of G. Wahl.
1530 Packaging B40001.
1545 Packaging B07001, B07101 and B07002.
1630 Packaging samples with help of G. Wahl.
1800 Total of 8 boxes. Airbill # 8219960456. Transported boxes to fedex for shipment. Offsite. Last Entry.

* Hydrogen cylinder delivered to trailer. Will store in trailer overnite to get proper security for tomorrow.

Daily Weather Conditions: A.M. Sunny, @ 75°F
P.M. Sunny, @ 85°F

Recorded By Joletta Humpert QA Checked By Laura M. Morrison 8/17/94

TASK TEAM ACTIVITY LOG SHEET

SAMPLE MANAGER OPS

PROJECT NAME: EG&G MOUND OU5 NEW PROPERTY, EXTENDED PHASE

TASK NO.: 34896

Date (mm/dd/yy): 6-29-94 TIME: NA PAGE 1 OF 2

Task Team Members: Pg. 9

Joletta Humpert

George Wahle

Narrative (include time and location):

0700 Onsite at sample trailer. Collecting rinsate for NP surface samples - ER0018. Gave bowl + spoon to MK.

0830 Collected rinsate for Ops Area groundwater sample using bailer. Preserved samples appropriately - ER0004.

1000 Packaged PE Samples delivered by K. McMahon. Includes 2 VOAs, 2 SVOCs, 3 Pest/PCBs, and 2 metals samples. Called A. Meyer about how to ship them - use our COC or what?

1030 Packaged B07003 which was delivered by J. Davis. Part of B07003 was collected on 6/28/94 at 1530 (VOA, SVOC/Pest/PCB, Metal/Cyn, Explosives, and TOC). The remainder of B07003 was collected at 0828 on 6/29/94.

1115 Left to go pickup trip blanks from fedex office.

1230 Back at trailer. Packaging B40401, B40402, and B40412.

1400 Unpacking sample savers.

1500 Received B16001 from J Davis. Packaging.

Daily Weather Conditions: A.M. Warm, 73°F, Sunny, Humid

P.M. Hot, 85°F, Sunny, Rain late

Recorded By Joletta Humpert QA Checked By Laura M. Morrison 8/17/94

TASK TEAM ACTIVITY LOG SHEET

SAMPLE MANAGER OPS

PROJECT NAME: EG&G MOUND OU5 NEW PROPERTY, EXTENDED PHASE

TASK NO.: 34896

Date (mm/dd/yy): 6/29/94 TIME: NA PAGE 2 OF 2

Task Team Members:

J. Humpert Pg. 10

Narrative (include time and location):

1630 Received B16002 and B16003. Packaging.
1730 Finishing packaging sample savers.
8 boxes for Ops Area.
Airbill # 8219959834
1745 Offsite to deliver to fedex.
Fast Entry

Daily Weather Conditions: A.M. NA

P.M. NA

Recorded By Joletta Humpert QA Checked By Laura M. Morrison 8/17/94

TASK TEAM ACTIVITY LOG SHEET

SAMPLE MANAGER: OPS

PROJECT NAME: EG&G MOUND OU5 NEW PROPERTY, EXTENDED PHASE

TASK NO.: 34896

Date (mm/dd/yy): 6-30-94 TIME: NA : _____ PAGE 1 OF 1

Task Team Members: pg. 11

Joletta Humpert

George Wahl

Narrative (include time and location):

0720 Onsite at sample trailer. Collecting ER for B16 for Rads and VOC only.

0830 Packaging B40301, B40311, and B40302 received at 1730 on 6/29/94. Held overnight in refrigerator

1015 Unpacking sample savers and organizing sample bottles.

1100 Catching up on logbook and lunch.

1200 Packaging geotechnical samples.

1230 Packaging B16004, B16005, and W16001. Also B40201 and B40202.

1430 Packaging soil gas timers from Area 21

1500 Drill rig shut down on B16 — no more samples.

1515 Begin packaging sample savers

1630 Begin packaging geotechnical buckets for NP.

1700 Total of six sample savers for Ops Area. Air bill # 8219960350.

1800 Transported samples to fedex. Offsite @ 1800. Last Entry.

Daily Weather Conditions: A.M. Sunny, @ 72°F

P.M. Sunny @ 85°F

Recorded By Joletta Humpert QA Checked By Laura M. Morrison 8/17/94

TASK TEAM ACTIVITY LOG SHEET

SAMPLE MANAGER 085

PROJECT NAME: EG&G MOUND OU5 NEW PROPERTY, EXTENDED PHASE

TASK NO.: 34896

Date (mm/dd/yy): 7/5/94 TIME: NA PAGE 1 OF 1

Task Team Members:

Joletta Humpert pg. 12

Greg Schant (SAIC Auditor)

Narrative (include time and location):

0715 Onsite at sample trailer. H&S briefing by J. Davis.

0800 Collected duplicate for NP (ER0019) for sediment samples. Preserved appropriately

0930 Completing logbooks.

1000 Packaging geotech samples

1030-1215 Pulling soil gas samples in non AOC (27-41 except 32).

1230 Lunch

1240 Packaging sediment samples SD0701 and SD0801. Also packaging B13001, and B13002, + B13003.

1430 Packaging geotech shelby tubes.

1530 Begin packaging SD1401 and SD1501. Talked to A. Meyer. Mark on Bi for water samples. Ready to send PE Samples to ERA.

1615 Received B13004, B13005, and B13006 (VOC only).

1700 Sent 6 coolers for Ops Area Airbill # 8219960125.

1745 Offsite to deliver to fedex. Last Entry.

Daily Weather Conditions: A.M. 80°F, Hot, Sunny

P.M. 97°F, Hotter, sunnier, humid

Recorded By Joletta Humpert QA Checked By Laura M. Morrison 8/17/94

TASK TEAM ACTIVITY LOG SHEET — SAMPLE MANAGER: OPS

PROJECT NAME: EG&G MOUND OU5 NEW PROPERTY, EXTENDED PHASE — TASK NO.: 34896

Date (mm/dd/yy): 7-6-94 TIME: NA PAGE 1 OF 1

Task Team Members: pg. 13

Joletta Humpert
Greg Schank
Tonya Pfaff

Narrative (include time and location):

Ø715 Onsite at sample trailer. Prepping bottles for crews. Collecting ERØØØ for subsurface soil samples for Area 7.

Ø83Ø Packaging shelby tubes into fedex tubes.

Ø9ØØ No samples will be collected by cabletool rig. Sediment crew out sampling in NP.

Ø93Ø Received two sediment samples SD12Ø1 and SD13Ø1 and SD1311 (duplicate). Packaging.

1Ø45 Received water sample (groundwater) W13ØØ1 and duplicate W131Ø1. Packaging.

12ØØ Received SD16Ø1 and SD17Ø1 Packaging.

14ØØ Received SD2ØØ1 and SD18Ø1, and SD19Ø1. Packaging.

153Ø Received SDØ6Ø1. Packaging.

1530-17ØØ. Packaging samples into sample savers.
A total of 15 boxes for Ops Area.
Airbill # 8219916ØØ81

1715. Delivery to fedex w/ J. Davis.
Fast Entry.

Daily Weather Conditions: A.M. Hot! 80°F Sunny
P.M. Hotter! 96°F Sunny

Recorded By Joletta Humpert QA Checked By Laura M. Morgan 8/17/94

TASK TEAM ACTIVITY LOG SHEET

SAMPLE MANAGER: ORS

PROJECT NAME: EG&G MOUND OU5 NEW PROPERTY, EXTENDED PHASE

TASK NO.: 34896

Date (mm/dd/yy): 7-7-94 TIME: NA PAGE 1 OF 2

Task Team Members:

Joletta Humpert

pg. 14

Narrative (include time and location):

0645 Onsite at sample trailer. Collecting rinsate for seep crew. Preserving samples.

0730 Called for Elisa - we desperately need water!!

0800 Juan informed me that he may not need a bowl for rinsate for sample collection.

0830 Began relabeling rinsate for NP area for sediment or subsurface sample for cable-tool rig.

0915 Catching up on logbooks and labels.

0930-1015 Packaging and labeling sample jars for PE samples to be sent to ERA. Sent samples (jars) according to list provided by A. Meyer to

Joel Holtz
ERA
5540 Marshall St.
Arvado, CO 80002.

1100 Received sediment samples SD0901, SD0911, SD1001, and SD1101 for packaging. Labeling and packaging

1230 Ran to fedex to pick up trip blanks.

1300 Made trip to semi-trailer to pick up more boxes

1330-1430 Up to ears in boxes - unpacking for more blue ice

Daily Weather Conditions: A.M. 72°F, Sunny

P.M. Hotter, @ 92°F

Recorded By Joletta Humpert QA Checked By Laura M. Morrison 8/17/94

TASK TEAM ACTIVITY LOG SHEET

SAMPLE MANAGER OPS

PROJECT NAME: EG&G MOUND OU5 NEW PROPERTY, EXTENDED PHASE

TASK NO.: 34896

Date (mm/dd/yy): 7-7-94 TIME: NA PAGE 2 OF 2

Task Team Members:

J Humpert pg. 15

Narrative (include time and location):

Also packing bottles for seep crew. Will collect sample plus duplicate plus MS/MSD.

1530 Received SD23Ø1, SD24Ø1, SD25Ø1, and SD27Ø1 from sediment crew. Packaging some samplesavers.

1535 Received delivery of DI water from Lamco - 55 gal drum (HDPE drum).

1645 Received seep samples from crew - began labeling and preserving. Assisted by M. Cramer, S. Abston, T. Pfaff, and J. Davis.

1830 Out of ice - will run to BP and buy ice, bag it and add to coolers.

1830 Offsite to BP

1845 Bagging ice and adding to coolers. Off to Fedex

1900 Delivery to fedex:

2 buckets (geotech) (Singleton): Airbill # 2169350805

7/7/94 9PH 97 containers to Conpuchem: Airbill # 8219960151

1940 Leave fedex for home.

Last Entry

Daily Weather Conditions: A.M. Hot @ 72°F, Sunny

P.M. Hotter, @ 92°F

Recorded By Joletta Humpert QA Checked By Laura M. Morrison 8/17/94

TASK TEAM ACTIVITY LOG SHEET

SAMPLE MANAGER: OPS

PROJECT NAME: EG&G MOUND OU5 NEW PROPERTY, EXTENDED PHASE

TASK NO.: 34896

Date (mm/dd/yy): 7-8-94 TIME: NA PAGE 1 OF 1

Task Team Members:

Joletta Humpert pg. 16

Narrative (include time and location):

0730 Onsite at sample trailer. Completing logbook from previous day.

0800 Reviewing soil gas logbooks and tracking status of samplers.

0815-0915 Pulling samplers in non-HP Area of Area 22. Pulled 64-66, 70-73, 75-77. Others of 64-85 were caved in or behind a locked fence.

0930 Prepping water bottles for crew.

1000-11:30 Cleaning sample trailer. Boxing soil gas tubes for shipment.

1200 Separating labels and custody seals from CompuChem packs.

1230 Went for lunch

1300 Prepping boxes, labels, custody seals, etc. for water samples Bagging ice.

1530 Waiting for water sample and completing logbooks.

1600 Received water sample and MS/MSD. Began furiously packing samples. Assisted by G. Loder and J. Devaughn. 13 boxes. Airbill # 8219960652.

1715 Off to fedex. 1745 Done at fedex. Last Entry

Daily Weather Conditions: A.M. Overcast, @ 75°F, Slight breeze

P.M. Same, except partly sunny.

Recorded By Joletta Humpert QA Checked By Laura M. Monson 8/17/94

TASK TEAM ACTIVITY LOG SHEET

SAMPLE MANAGER: OPS

PROJECT NAME: EG&G MOUND OU5 NEW PROPERTY, EXTENDED PHASE

TASK NO.: 34896

Date (mm/dd/yy): 7-11-94 TIME: NA PAGE 1 OF 2

Task Team Members:

J. Humpert pg. 17

Narrative (include time and location):

0710 Onsite at sample trailer. Collecting ER0021 at 0730 for sediment crew. Preserving + packaging.
0830 Prepping bottles for seep crew.
0845 Ran to fedex to pick up blue ice, custody seals, and trips (two of trips already have bubbles). Shipped Area 21 timers to NERI (Airbill # 2169350794) and shelby tube B40621 to Singleton (Airbill # 2169350772).
0945 Back at trailer - catching up on logbooks.
1100 Received sediment samples SD2101, SD2201, SD2101, and SD2111 (dup). Packaged samples.
1130 Received S0200 1 (seep for Ops Area). Packaging.
1300 Juan ran to get boxes for me from Semi.
1320 Unpacking sampleservers.
1400 Packaging bags of ice for shipment.
1500 Received SD0101, SD0201, and SD0301. Sediment team will quit sampling for today. Need another rinsate. Received BH1002 and B41012 (dup) from cabletool rig. Packaging.
1600 Began packing sample savers with assistance

Daily Weather Conditions: A.M. Sunny 70°F

P.M. Sunny 85°F

Recorded By Juletta Humpert QA Checked By Laura M. Marian 8/17/94

TASK TEAM ACTIVITY LOG SHEET

SAMPLE MANAGER: OPS

PROJECT NAME: EG&G MOUND OU5 NEW PROPERTY, EXTENDED PHASE

TASK NO: 34896

Date (mm/dd/yy): 7-11-94 TIME: NA PAGE 2 OF 2

Task Team Members:

J.H. pg. 18

Narrative (include time and location):

from Tonya Pfaff.
1700 Completed packing. Total of 6 sample savers for Ops Area. Airbill # 8219960615.
1715 Offsite to deliver to fedex
1745. Leave fedex for home.
fast Entry

Daily Weather Conditions: A.M. NA

P.M. NA

Recorded By Joletta Humpert QA Checked By Laura M. Morrison 8/17/94

TASK TEAM ACTIVITY LOG SHEET

SAMPLE MANAGER OPS

PROJECT NAME: EG&G MOUND OU5 NEW PROPERTY, EXTENDED PHASE

TASK NO.: 34896

Date (mm/dd/yy): 7-12-94 TIME: NA PAGE 1 OF 1

Task Team Members:

Joletta Humpert pg. 19

Narrative (include time and location):

Onsite at 630 at guard shack - lost my dosimeter. They assigned me a new one.

0650 at sample trailer, collecting rinsate for sediment crew. Myself and Chris Halley will complete sediment sampling today.

0830 Sampling for sediments complete.

0935-1200 Pulling soil gas samplers in non-AOC with C. Halley.

1200 No samples from B14 today. Task Activity notes continue in NP logbook.

Last Entry

Daily Weather Conditions: A.M. Warm, sunny, 70°F

P.M. Warmer, sunnier, 88°F

Recorded By Joletta Humpert QA Checked By Laura M. Moulton 8/17/94

TASK TEAM ACTIVITY LOG SHEET

SAMPLE MANAGER: OPS

PROJECT NAME: EG&G MOUND OU5 NEW PROPERTY, EXTENDED PHASE

TASK NO.: 34896

Date (mm/dd/yy): 7-13-94 TIME: NA PAGE 1 OF 1

Task Team Members:

Joletta Humpert pg. 20

Narrative (include time and location):

0715 Onsite at sample trailer. Crew still on B14 at 96'.

0800-1130 Pulling soil gas samplers in Area 22.

1200 Lunch

1230 Pulling soil gas samplers in Burn Area and Non AOC area.

1400 Talked to G Loder. Crew done at B14. Drillers still pulling augers and deconning. Will set up on B8 in Area 7.

No samples to be sent today (no samples were collected).

Last Entry

Daily Weather Conditions: A.M. Hot! 75°F, v.v. humid

P.M. Hotter! 89°F, v.v.v. humid

Recorded By Joletta Humpert QA Checked By Laura M. Morrison 7/17/94

TASK TEAM ACTIVITY LOG SHEET — SAMPLE MANAGER: OPS

PROJECT NAME: EG&G MOUND OU5 NEW PROPERTY, EXTENDED PHASE — TASK NO.: 34896

Date (mm/dd/yy): 7-14-94 TIME: NA PAGE 1 OF 2

Task Team Members:

Joletta Humpert Pg. 21

Juan Alvarado

Narrative (include time and location):

0715 Onsite at sample trailer. Prepping crew and organizing for soil gas

0800 - 0830 Talked with J. Geisler and Rod Long about progress of clearing areas for soil gas.

0900 - 1200 Pulling soil gas samplers in Non-AOC.

1130 Lunch. Prepping groundwater jars for S. Abston.

1230 Packaging samples B08001 and B08002 from B08 (Ops).

1340 Completing logbook and COC.

Notes: We had tubes and our hands and feet scanned out before lunch break.

Called Singleton lab to return call of Yung Chung. They (the lab) are totally in the dark about what they are supposed to be doing. A. Meyer and N. Campbell working on this issue. Still need to resolve whether CEC (cation exchange capacity) needs to be chilled.

1500 Received B08003. Packaging samples + boxes for Compuchem. 4 boxes - airbill # 8219960700

1730 Delivery to fedex with NP samples. Last Entry

Daily Weather Conditions: A.M. Warm 75°F, v. humid, partly cloudy

P.M. Hot, 85°F, humid, partly sunny.

Recorded By Joletta Humpert QA Checked By Laura M. Morrison 8/17/94

TASK TEAM ACTIVITY LOG SHEET

SAMPLE MANAGER: OPS

PROJECT NAME: EG&G MOUND OU5 NEW PROPERTY, EXTENDED PHASE

TASK NO.: 34896

Date (mm/dd/yy): 7-18-94 TIME: NA PAGE 2 OF 2

Task Team Members:

Joletta Humpert pg. 22

Narrative (include time and location):

0700 Onsite.

0800 Area 7 rig drilling geotech samples for another project - no samples today. See NP logbook.

Last Entry.

Daily Weather Conditions: A.M. Warm, humid, @ 75°F

P.M. NA

Recorded By Joletta Humpert QA Checked By Laura M. Morrison 8/17/94

TASK TEAM ACTIVITY LOG SHEET

SAMPLE MANAGER OPS

PROJECT NAME: EG&G MOUND OU5 NEW PROPERTY, EXTENDED PHASE

TASK NO.: 34896

Date (mm/dd/yy): 7-19-94 TIME: NA PAGE 1 OF 1

Task Team Members:

Joletta Humpert pg. 23

Narrative (include time and location):

0715 Onsite at sample trailer. All crews out.
Writing change orders.
0900 G. Loder called for ambient vials. Delivered to B09.
Picked up B09001, B09002, and B09102. Packaging.
1030 Collected sample bank blank (BB00005).
1100 Writing change orders
1130 Lunch. Meeting with soil gas crew.
1200 Received B09003, B09004, and B09005 (partial). Packaging.
1400 Prepping labels for NP Groundwater sample.
1415 Received remaining samples from B09005.
Packaging samples
1430 Delivery to Fedex. Total of seven boxes shipped
to Compuchem. Airbill # 8219960556.
Last Entry

Daily Weather Conditions: A.M. Sunny, @ 75°F

P.M. Sunny, @ 88°F

Recorded By Joletta Humpert QA Checked By Laura M. Morrison 8/17/94

TASK TEAM ACTIVITY LOG SHEET

SAMPLE MANAGER: OPS

PROJECT NAME: EG&G MOUND OU5 NEW PROPERTY EXTENDED PHASE

TASK NO: 34896

Date (mm/dd/yy): 7-20-94 TIME: NA PAGE 1 OF 1

Task Team Members:

Joletta Humpert Pg. 24

Narrative (include time and location):

0700 Onsite at sample trailer.
0715 Collecting rinsate ER0008 for subsurface soil.
~~0730~~ 0730 Onsite at B12 acting as flag girl.
1000 Ran to guard post 2 to catch fedex truck.
1030 Packaging B12001, B12002, and B12003.
1115 Packaging ER0008. Preserving as needed.
1230 Packaging W40201 and W40211 (NP Groundwater)
1400 Begin packing water sample in coolers
1500 Receive B10001, B10002 and B10003 for packaging.
~~1400~~ 1600 Begin packing samplesavers with help from G. Loder.
1730 Delivery to fedex.
1745 At fedex. Total of ~~seven~~ eleven boxes. Airbill # 821996~~8556~~ 0626.
JPH 7/20/94 JPH 7/20/94
Last Entry

Daily Weather Conditions: A.M. Sunny 80°F
P.M. Sunny 95°F

Recorded By Joletta Humpert QA Checked By Laura M. Morrica 9/17/94

TASK TEAM ACTIVITY LOG SHEET | **SAMPLE MANAGER** OPS

PROJECT NAME: EG&G MOUND OU5 NEW PROPERTY, EXTENDED PHASE | **TASK NO.: 34896**

Date (mm/dd/yy): 7-21-94 TIME: NA PAGE 1 OF 1

Task Team Members:

Joletta Humpert pg. 25

Narrative (include time and location):

Ø715 Onsite at sample trailer. Working with soil gas crew to pull samplers in SDB.

Ø73Ø Catching up on logbooks.

Ø915 Received groundwater sample from NP crew. W41ØØ1 (MS/MSD).

113Ø ~~Upon 7/21/94 JH~~ Unpacking sampleavers.

1145 Packaging B11ØØ1, B11ØØ2, B111Ø2, B11ØØ3 and B11ØØ4.

123Ø lunch - finish packaging above samples.

133Ø Bagging ice

143Ø Packing coolers and boxes and W11ØØ1 (gw).

17ØØ Finished packing boxes - total of 16.
Airbill # 8219961Ø523.

Last Entry

Note: Jeff Stapleton (EG&G) called and wanted copies of our medicals (for those doing B16) and a copy of our SOP for respirators. He came over and copied these papers for HP. (x5561)

Daily Weather Conditions: A.M. Sunny, 70°F
P.M. Sunny, 95°F

Recorded By Joletta Humpert QA Checked By Laura M. Morrison 8/17/94

TASK TEAM ACTIVITY LOG SHEET — SAMPLE MANAGER: OPS

PROJECT NAME: EG&G MOUND OU5 NEW PROPERTY, EXTENDED PHASE — TASK NO.: 34896

Date (mm/dd/yy): 7-22-94 TIME: NA PAGE 1 OF 1

Task Team Members:

J. Humpert pg. 26

J. Davis.

Narrative (include time and location):

1030 Onsite at sample trailer. Crew finished drilling B06. Collected B06001, B06002, and B06003. B06003 was a partial sample - crew had difficulty collecting sufficient volume.

1100 Contacted lab (M. Swift) - she instructed me on what parameters we could combine for B06003

1 8 oz SVOC/Pest/PCB; Metal/Cyn

1 8 oz Anions

2 8 oz for rads

1 8 oz explosives.

She instructed me to write "low volume" on COC.

1105 G. Loder said they would head to B15 this afternoon. Need to collect rinsate for surface sample. Collected ER0009

1200 G. Loder decides not to start on B15 as drillers can stay busy moving barrels, etc.

1330 Received soil screening results from HP; all OK

1400 Began packing sample savers. Total of seven boxes shipped. Airbill #. 8219959742

Last Entry

Daily Weather Conditions: A.M. Sunny 75°F

P.M. Sunny, 85°F

Recorded By Joletta Humpert. QA Checked By Laura M. Morrow 8/17/94

TASK TEAM ACTIVITY LOG SHEET

SAMPLE MANAGER: OPS

PROJECT NAME: EG&G MOUND OU5 NEW PROPERTY, EXTENDED PHASE

TASK NO.: 34896

Date (mm/dd/yy): 7-25-94 TIME: NA PAGE 1 OF 1

Task Team Members:

J. Humpert pg. 27

Narrative (include time and location):

Ø715 Onsite at sample trailer.
Crew starting on B16. J. Davis not onsite today.
Ao organizing crew and working with. K. McMahan.

1Ø30 Doctor's Appointment - will Return

12ØØ Receive B16ØØ6 (rads), B16ØØ7 (rads + VOA) and B161Ø7 (dup of rads only)
Packaging.

1330 Checking QC for Ops Area. Need couple of dups on B15 Will inform team.

14ØØ Organizing soil gas samplers from SDB area.
Received timers from Area 3 - first set - packaged and shipped to NERI - Airbill # 2169356 35Ø.

153Ø Received word that B16 complete - begin packaging samples. 2 boxes to CompuChem.
Airbill # ~~8219959742~~. 8219963Ø2
JPH 7/25/94

1630 Offsite to ~~fedex~~
Fast Survey

Daily Weather Conditions: A.M. Sunny 75°F

P.M. Sunny, more humid, 85°F

Recorded By J. Humpert QA Checked By Laura M. Morrison 8/17/94

TASK TEAM ACTIVITY LOG SHEET

SAMPLE MANAGER OPS

PROJECT NAME: EG&G MOUND OU5 NEW PROPERTY, EXTENDED PHASE

TASK NO.: 34896

Date (mm/dd/yy): 7-26-94 TIME: NA PAGE 1 OF 1

Task Team Members:

Joletta Humpert pg. 28

Narrative (include time and location):

0715 Onsite. Crew finishing B16 - pulling augers, etc.
0730 Reviewing soil gas logbook for weekly report.
0745 Numbering 7N block map and packaging soil gas samplers.
0800 Reviewing soil gas progress with J. Davis
1000 Collecting ER0010 for subsurface sample on B15
1200 Lunch
1230 Packing soil gas samplers
1330 Checking QA for Ops Area
1430 Packing sample (ER) - no soil samples today.
1500 Offsite to Fedex delivery. 4 boxes to CompuChem. Airbill # 821995913.
Off to office.
Fast Entry

Daily Weather Conditions: A.M. Sunny, 75°F, not as humid
P.M. Sunny, 80°F

Recorded By Joletta Humpert QA Checked By Laura M. Monroe 8/17/94

TASK TEAM ACTIVITY LOG SHEET

SAMPLE MANAGER: OPS

PROJECT NAME: EG&G MOUND OU5 NEW PROPERTY, EXTENDED PHASE

TASK NO.: 34896

Date (mm/dd/yy): 7-27-94 TIME: NA PAGE 1 OF 1

Task Team Members:

Joletta Humpert pg. 29

Narrative (include time and location):

0715 Onsite. Crew starting B15

0730 Working with T. Davis to move barrels at NP boring sites.

1100 Stopped at B15 to pick up samples from crew.

1120 Packaging B15001, B15101, B15002, B15003, B15004, B15104.

1400 Out with G. Loder to pull SDB 371-380

1600 Packaged samples. Total of seven boxes to Compuchem. Airbill # 8219959926

Offsite @ 1645

Last Entry

Daily Weather Conditions: A.M. Overcast, 70°F

P.M. Overcast, 78°F

Recorded By J. Humpert QA Checked By Laura M. Morrison 8/17/94

TASK TEAM ACTIVITY LOG SHEET

SAMPLE MANAGER: OPS

PROJECT NAME: EG&G MOUND OU5 NEW PROPERTY, EXTENDED PHASE

TASK NO.: 34896

Date (mm/dd/yy): 8-8-94 TIME: NA PAGE 1 OF 1

Task Team Members:

J. Humpert pg. 30

Narrative (include time and location):

0720 Onsite at sample trailer. Checking QC needs with N. Campbell. Can tie these samples in with what was previously collected. Will sample 4 points around pH building - 2 samples per location.

1200 Received B17001. Packaged

1430 Picked up B18001 and B17002 from crew at HP Bldg. Packaging.

1600 Received B18002. Packaging. Won't ship today because we don't have Soil screening results, Will wait and ship tomorrow.

1630 Offsite. Last Entry

Daily Weather Conditions: A.M. Sunny 70°F

P.M. Sunny, 85°F

Recorded By Juletta Humpert QA Checked By Laura M. Morrison 8/17/94

TASK TEAM ACTIVITY LOG SHEET

SAMPLE MANAGER OPS

PROJECT NAME: EG&G MOUND OU5 NEW PROPERTY, EXTENDED PHASE

TASK NO.: 34896

Date (mm/dd/yy): 8-9-94 TIME: NA PAGE 1 OF 1

Task Team Members:

J. Humpert pg. 31

Narrative (include time and location):

0720 Onsite. Crew out at site cutting through asphalt.

0730-0900 Cleaning up equipment and deconning equipment outside trailer.

0930 Go to HP Building to check on progress of crew and pick up samples. Crew collecting B19001. Wait and retrieve. Watched process.

1030 Packing samples from 8/8/94. Received OK from HP to ship.

1230 Leaving for fedex. Will ship samples collected 8/9/94 on 8/10/94 after receiving approval from HP.

1300 Offsite to fedex. Airbill # 8219960313 5 boxes to Compuchem.

Last Entry

Daily Weather Conditions: A.M. Sunny 70°F

P.M. Sunny 85°F

Recorded By Joletta Humpert QA Checked By Laura M. Marian 8/17/94

TASK TEAM ACTIVITY LOG SHEET | **SAMPLE MANAGER** OPS

PROJECT NAME: EG&G MOUND OU5 NEW PROPERTY, EXTENDED PHASE | **TASK NO.: 34896**

Date (mm/dd/yy): 8/10/94 TIME: NA PAGE 1 OF 1

Task Team Members:

J. Humpert pg. 32

Narrative (include time and location):

0800 Onsite at sample trailer
Packaging B19001, B19002, B20001 and B20002 for shipment.
Shipped total of 5 boxes to Compuchem.
Airbill # 8219960114.
Last Entry

Daily Weather Conditions: A.M. Sunny 70°F
P.M. NA

Recorded By Joletta Humpert QA Checked By Laura M. Morrison 8/17/94

TASK TEAM ACTIVITY LOG SHEET — SAMPLE MANAGER: OPS

PROJECT NAME: EG&G MOUND OU5 NEW PROPERTY, EXTENDED PHASE — TASK NO.: 34896

Date (mm/dd/yy): 9/14/94 TIME: NA PAGE 1 OF 1

Task Team Members: pg. 33

J. Humpert
B. Richardson
M. Oblog

9/14/94

Narrative (include time and location):

0800 B.R. and M.O. onsite. Collecting soil screening samples as part of additional samples.
1100 J.H onsite with shipment of soil gas tubes. B.R. and M.O. out to collect metals soil sample.
1115 Called F. Miller about sample ids for metals + explosives sampler.
Note: Rinsate for explosives only was collected on 9/13/94 by B.R and M.O. (ER0011).

Container lot # for metals F3146050
Container lot # for explosives F3146050

Samples shipped to Compuchem - airbill # 8219959856. Included BB1001 (metals only); BB2001, BB2101 (dup), BB3001, BB4001, BB5001, BB6001, BB7001 (explosives only). Completes OU5 soil sampling.
Fast Entry

Daily Weather Conditions: A.M. Sunny, 75°F
P.M. Sunny, 85°F

Recorded By J. Humpert QA Checked By

TASK TEAM ACTIVITY LOG SHEET

SAMPLE MANAGER: OPS

PROJECT NAME: EG&G MOUND OU5 NEW PROPERTY, EXTENDED PHASE

TASK NO.: 34896

Date (mm/dd/yy): NA TIME: NA PAGE 1 OF 7

~~Task Team Members:~~ JPH 8/16/94

pg. 93

* dup S01101

** MS/MSD

Narrative (include time and location):

~~Sediments~~ JPH 7/11/94

Seeps

	Ambient	SBB	ER	Trip	COC
S01001 * **	AB0004	BB0004	NA	TBA011	OAC011
S02001	↓	↓	↓	TBA013	OAC013

Last entry

Daily Weather Conditions: A.M. NA

P.M. NA

Recorded By Joletta Humpert QA Checked By Laura M. Morrison 8/17/94

TASK TEAM ACTIVITY LOG SHEET — SAMPLE MANAGER OPS

PROJECT NAME: EG&G MOUND OU5 NEW PROPERTY, EXTENDED PHASE — TASK NO.: 34896

Date (mm/dd/yy): NA TIME: NA PAGE 2 OF 7

~~Task Team Members~~ SPH 8/16/94

pg. 94

* Dup B141Ø4

** Dup BØ91Ø2

Narrative (include time and location):

Subsurface (Continued)

Sample ID	Ambient	SBB	ER	Trip	COC#	Dup
~~B14ØØ4~~ SPH 8/16/94						
B16ØØ2 (VOC)	ABØØØ3-5	BBØØØ3-5	ERØØØ5-4	TBAØØ7	OACØØ7	
B16ØØ3 (Rads)	NA	NA	ERØØØ5-5	NA	OACØØ7	
B16ØØ4 (VOA + Rads)	ABØØØ3-6	BBØØØ3-6	-6	TBAØØ8	OACØØ8	
B16ØØ5 (VOA + Rads)	" -7 SPH 8/16/94	" -7	-7			
B13ØØ2	ABØØØ3-9	-9	3-7	TBAØØ9	OACØØ9	
B13ØØ3	ABØØØ3-10	-10	3-8			
B13ØØ4	ABØØØ3-11	-11	3-9			
(10) B13ØØ5	ABØØØ3-12	-12	3-10			
B13ØØ6 (VOC)	ABØØØ3-13	-13	ERØØØ5-8	TBAØØ9	OACØØ9	
B14ØØ2	ABØØØ3-15	-15	ERØØØ6-1	TBAØ11	OACØ11	
B14ØØ3 (VOC)	ABØØØ3-16	-16	ERØØØ5-9	TBAØ11	OACØ11	
B14ØØ4 *	ABØØØ3-17	-17	ERØØØ6-2	TBAØ12	OACØ12	
BØ8ØØ2 ~~B14ØØ5~~ SPH 8/16/94	ABØØØ3-18	-18	ERØØØ6-3	TBAØ14	OACØ14	
BØ8ØØ3	-20	-20	ØØ6-4			
BØ9ØØ2 **	ABØØØ5-2	BBØØØ5-2	ØØ6-5	TBAØ15	OACØ15	
BØ9ØØ3	-3	-3	ØØ6-6			
BØ9ØØ4	-4	-4	ØØ6-7			

Daily Weather Conditions: A.M. NA

P.M. NA

Recorded By Joletta Humpert QA Checked By Laura M. Morrow 8/17/94

TASK TEAM ACTIVITY LOG SHEET — SAMPLE MANAGER: OPS

PROJECT NAME: EG&G MOUND OU5 NEW PROPERTY, EXTENDED PHASE — TASK NO.: 34896

Date (mm/dd/yy): NA TIME: NA: PAGE 3 OF 7

~~Task Team Members:~~ JPH 8/16/94

pg. 95

* dup B11Ø2

** dup B15Ø4

Narrative (include time and location):

Sample ID	Ambient	SBB	ER	Trip	COC	Dup.
BØ9ØØ5	ABØØØ5-5	BBØØØ5-5	ERØØØ6-8	TBAØ15	OACØ15	
B12ØØ3	ABØØØ5-6	-6	ERØØØ6-9	TBAØ16	OACØ16	
B12ØØ2	-7	-7	ERØØØ8-1			
~~B12ØØ3~~ B1ØØØ2 JPH 8/16/94	-8	-8	ERØØØ6-1Ø			
B1ØØØ3	-18	-18	ERØØØ8-2			
B11ØØ2 *	-12	-12	ERØØØ8-3	TBAØ17	OACØ17	
B11ØØ3	-13	-13	-4			
B11ØØ4	-14	-14	-5			
BØ6ØØ2	-16	-16	-6	TBAØ18	OACØ18	
BØ6ØØ3	-17	-17	-7			
B16ØØ6 (rads only)	NA	NA	ERØØØ5	~~EB~~ NA JPH 8/16/94	OACØ19	
B16ØØ7 * (Rad + VOA)	-19	-19	ERØØØ8-8	TBAØ19	OACØ19	
B15ØØ2	ABØØØ6-1	BBØØØ6-1	ERØØØ8-9	TBAØ21	OACØ21	
B15ØØ3	-2	-2	ERØØØ8-1Ø			
B15ØØ4 **	-3	-3	ERØØØ8-1 JPH 8/16/94			
B17ØØ2 ~~Just Entered~~ JPH 8/16/94	-4	-4		TBAØ22	OACØ22	
B18ØØ2	-5	-5				
B19ØØ2	-6	-6		TBAØ23	OACØ23	
B2ØØØ2	-7	-7				

Daily Weather Conditions: A.M. NA

P.M. NA

Recorded By Joletta Humpert QA Checked By Laura M. Morrison 8/17/94

TASK TEAM ACTIVITY LOG SHEET

SAMPLE MANAGER OPS

PROJECT NAME: EG&G MOUND OU5 NEW PROPERTY, EXTENDED PHASE

TASK NO.: 34896

Date (mm/dd/yy): NA TIME: NA PAGE 4 OF 7

Task Team Members:

pg. 96

* dup for explosives only (BB21Ø1)

Narrative (include time and location):

Rinsates

JPH 8/16/94

Rinsate #	Sample #
ERØØØ1	BØ1ØØ1
ERØØØ2	BØ5ØØ2

Surface Samples (cont'd from pg. 97)

	Sample ID	Ambient	SBB	Rinsate	Trip	COC#
metals only	BB1ØØ1	ABØØØ6-12	BBØØØ6-12	ERØØØ9	NA	OACØ25
	BB2ØØ1*	-13	-13	~~ERØØØ8~~ ERØØ11		
	BB3ØØ1	-14	-14			
explosives only	BB4ØØ1	-15	-15			
	BB5ØØ1	-16	-16			
	BB6ØØ1	-17	-17			
	BB7ØØ1	-18	-18			

Daily Weather Conditions: A.M. NA

P.M. NA

Recorded By Joletta Humpert QA Checked By Laura M. Marsar 8/17/94

TASK TEAM ACTIVITY LOG SHEET — SAMPLE MANAGER: OPS

PROJECT NAME: EG&G MOUND OU5 NEW PROPERTY, EXTENDED PHASE — TASK NO.: 34896

Date (mm/dd/yy): NA TIME: NA PAGE 5 OF 7

~~Task Team Members:~~ JPH 8/16/94

pg. 97

* dup collected B071Ø1

** dup B151Ø1

Narrative (include time and location):

Surface Samples

	Sample ID	Ambient	SBB	Rinsate	Trip	COC #	Dup
1	BØ1ØØ1	ABØØØ1	BBØØØ1	ERØØØ1	TBAØØ1	OACØØ1	
2	BØ2ØØ1	↓	↓	-2	TBAØØ2	OACØØ2	
3	BØ4ØØ1	↓	↓	-3	TBAØØ3	OACØØ3	
4	BØ5ØØ1	↓	↓	-4	↓	↓	
5	BØ3ØØ1	ABØØØ1	BBØØØ1	ERØØØ1-5	TBAØØ4	OACØØ4	
1	BØ7ØØ1*	ABØØØ3-4	BBØØØ3-4	ERØØØ1-6	TBAØØ6	OACØØ6	
	BØ6ØØ1 (Rads)	NA	NA	ERØØØ5-3	NA	OACØØ7	
	B13ØØ1	ABØØØ3-8	BBØØØ3-8	ERØØØ1-7	TBAØØ9	OACØØ9	
	B14ØØ1	ABØØØ3-11	BBØØØ3-11	ERØØØ1-8	TBAØ11	OACØ11	
10	BØ8ØØ1	ABØØØ3-19	BBØØØ3-19	ERØØØ1-9	TBAØ14	OACØ14	
	BØ9ØØ1	ABØØØ5-1	BBØØØ5-1	ERØØØ1-10	TBAØ15	OACØ15	
	B12ØØ1	ABØØØ5-9	BBØØØ5-9	ERØØØ9	TBAØ16	OACØ16	
	B1ØØØ1	↓ -10	↓ -10	ERØØØ9	↓	↓	
	B11ØØ1	-11	-11	ERØØØ9	TBAØ17	ØACØ17	
	BØ6ØØ1	-15	-15	ERØØØ9	TBAØ18	OACØ18	
	B15ØØ1**	↓ -20	↓ -20	ERØØØ9-1	TBAØ21	OACØ21	
	319ØØ1	ABØØØ6-8	BBØØØ6-8	ERØØØ9	TBAØ23	OACØ23	
	B2ØØØ1	↓ -9	↓ -9	↓	↓	↓	
	B18ØØ1	-10	-10		TBAØ22	OACØ22	
	B17ØØ1	-11	-11				

Daily Weather Conditions: A.M. NA

P.M. NA

Recorded By Joletta Humpert QA Checked By Laura M. Morrison 8/17/94

TASK TEAM ACTIVITY LOG SHEET — **SAMPLE MANAGER** DPS

PROJECT NAME: EG&G MOUND OU5 NEW PROPERTY, EXTENDED PHASE — **TASK NO.: 34896**

Date (mm/dd/yy): NA TIME: NA PAGE 6 OF 7

~~Task Team Member~~ JPH 8/16/94

Pg. 98

* collected duplicate BØ41Ø2

Narrative (include time and location):

Subsurface Samples

	Sample ID	Ambient	SBB	Eqpt Rinsate	Trip	COC #	Dup
1.	BØ1ØØ2	ABØØØ1	BBØØØ1	ERØØØ2	TBAØØ1	OACØØ1	JPH 8/16/94
2.	BØ1ØØ3	↓	↓	↓	↓	↓	
3.	BØ1ØØ4	↓	↓	↓	↓	↓	
4.	BØ1ØØ5	↓	↓	↓	↓	↓	
5.	BØ1ØØ6	↓	↓	↓	↓	↓	
6.	BØ1ØØ7	↓	↓	↓	TBAØØ2	OACØØ2	
7.	BØ2ØØ2	↓	↓	↓	TBAØØ3	OACØØ2	
8.	BØ4ØØ2*	↓	↓	↓	TBAØØ3	OACØØ3	
9.	BØ5ØØ2	↓	↓	↓	↓	↓	
10	BØ3ØØ2	ABØØØ1	BBØØØ1	ERØØØ2	TBAØØ4	OACØØ4	
11	BØ3ØØ3	↓	↓	ERØØØ3-2	↓	↓	
12	BØ3ØØ4	↓	↓	ERØØØ3-3	TBAØØ4 TBAØØ5	OACØØ4 OACØØ5	
13	BØ3ØØ5	↓	↓	ERØØØ3-4	TBAØØ5	OACØØ5	
14	BØ3ØØ6 (VOC)	↓	↓	ERØØØ5-1 JPH 8/17/94	↓	↓	
15	BØ3ØØ7 (VOC)	↓	↓	ERØØØ5-2 JPH 8/17/94	TBAØØ6	OACØØ6	
1	BØ7ØØ2	ABØØØ3 (*1)	BBØØØ3 (*1)	ERØØØ3-1	TBAØØ6	OACØØ6	
2	BØ7ØØ3	↓ (2)	↓ (2)	3-5	TBAØØ7	OACØØ7	
3	BØ7ØØ4	↓ (3)	↓ (3)	3-6	↓	↓	

Daily Weather Conditions: A.M. NA

P.M. NA

Recorded By Joletta Humpert QA Checked By Laura M. Morrison 8/17/94

TASK TEAM ACTIVITY LOG SHEET — SAMPLE MANAGER: 085

PROJECT NAME: EG&G MOUND OUS NEW PROPERTY, EXTENDED PHASE — TASK NO.: 34896

Date (mm/dd/yy): NA TIME: NA PAGE 7 OF 7

~~Task Team Members:~~ JPH 8/16/94 Duplicates Pg. 99

* collected dup W131Ø1
* collected MS/MSD

Narrative (include time and location):

Groundwater

Sample ID	Ambient	SBB	Trip	COC#	ER.
1. W1ØØØ1	ABØØØ2	BBØØØ2	TBAØØ5	OACØØ5	ERØØØ4
2 W16ØØ1 (rads)	JPH 8/16/94		TBAØØ8	OACØØ8	ERØØØ4
3. W13ØØ1 *	ABØØØ2	BBØØØ2	TBAØ1Ø	OACØ1Ø	ERØØØ4
W14ØØ1 **	↓	↓	TBAØ12	OACØ12	↓
4 W11ØØ1	↓	↓	TBAØ17	OACØ17	ERØØØ4

JPH 8/16/94

Last Entry

Daily Weather Conditions: A.M. NA

P.M. NA

Recorded By Jolita Humpert QA Checked By [signature]

7 RMSOCES

SAMPLE LOG SHEET

OPS Pg. 102

PROJECT NAME: Mound Operational Area

PROJECT NO: 2680

SAMPLE ID NUMBER: ER0001 DATE COLLECTED (MM/DD/YY): 6-20-94 TIME (HH:MM): 0830

SAMPLING -

LOCATION CODE: MNDOA

DESCRIPTION: NA

POINT CODE: ER

DESCRIPTION: NA

SAMPLE -

MEDIA CODE: 73

DESCRIPTION: RINSE WATER

DEPTH NA TO NA NA

SAMPLE TYPE:

- [X] GRAB
- [ ] TIME COMPOSITE
- [ ] QC RINSATE
- [ ] OTHER (SPECIFY)
- [ ] SPATIAL COMPOSITE
- [ ] QC TRIP BLANK
- [ ] QC FIELD BLANK

FIELD OBSERVATIONS:

Collected in sample trailer using ASTM Type II DI water. Rinsate collected using stainless steel bowl and large and small spoons deconned by G. Loder

Rinsate for surface soil samples - tied to B01001

SAMPLE COLLECTED: [X] YES [ ] NO

SAP SAMPLING PROCEDURE WAS FOLLOWED: [X] YES [ ] NO FIELD CHANGE ORDER REFERENCE NO: NA

IF SAP WAS NOT FOLLOWED, SPECIFY WHAT DEVIATIONS WERE NECESSARY AND WHY (INCLUDE FIELD CHANGE ORDER REFERENCE NO.):

RECORDED BY: Juletta Humpert (SIGNATURE)

QA CHECKED BY: Laura M. Morrison 8/17/94 (SIGNATURE)

SAMPLE LOG SHEET

SAMPLE ID NUMBER: ERØØØ1 CPS PG. 1Ø3

CONTAINER VOLUME (ml)	CONTAINER TYPE	METHOD NAME AND NUMBER ANALYSIS	PRESERVATIVES (TYPE/VOL)	C-O-C #	AIR BILL #	CONTAINER LOT #	LABORATORY
2-4Ø	Glass	CLPVOA	HCL to pH<2,4C	OACØØ1	928947635Ø	B3228Ø2Ø	COMPUC
2-1ØØØ	AmbGlass	CLP SVOC	Cool,4C			H3182Ø1Ø	COMPUC
2-1ØØØ	AmbGlass	CLP PEST / PCB	Cool,4C			H3182Ø1Ø	COMPUC
2-1ØØØ	AmbGlass	EXPLOSIVES	Cool,4C			H3182Ø1Ø	COMPUC
1-1ØØØ	Poly	METALS	HNO3 to pH<2,4C			C4Ø7ØØ1Ø	COMPUC
1-1ØØØ	Poly	CYANIDE	NaOH to pH>12,4C			C4Ø7ØØ1Ø	COMPUC
3 ~~1~~-1ØØØ pH 4/20/91	Poly	ANIONS Fl,SO4,Cl	Cool,4C			C4Ø7ØØ1Ø C3231Ø2Ø	COMPUC
1-1ØØØ	Poly	NO2/NO3	H2SO4 to pH<2,4C			C4Ø7ØØ1Ø	COMPUC
1-1ØØØ	AmbGlass	TOTAL ORGANIC CARBON	H2SO4 to pH<2,4C			H3182Ø1Ø	COMPUC
1-1ØØØ	Poly	LANTHANIDES	HNO3 TO PH<2			C3231Ø2Ø	COMPUC
2-1ØØØ	Poly	RADS Pu,Th,U, AMERICIUM SB 9/18/91	HNO3 TO PH<2			C4Ø7ØØ1Ø	COMPUC
2-1ØØØ	Poly	RADS Ac,Sr,GAMMA	HNO3 TO PH<2			~~C13~~ pH 4/20/91 C4Ø7ØØ1Ø	COMPUC
1-1ØØØ	Glass	TRITIUM	NONE			H3182Ø1Ø	COMPUC

Pg 1Ø3

SAMPLE ID'S RINSATE: NA TRIP BLANK: TBAØØ1 FIELD BLANK: NA FIELD DUPLICATE: NA

RECORDED BY: Juletta Humpert (SIGNATURE) QA CHECKED BY: Laura M. Morrison 8/17/91 (SIGNATURE)

Rinsates

SAMPLE LOG SHEET OPS

PROJECT NAME: Mound Operational Area PG. 104 **PROJECT NO: 2680**

SAMPLE ID NUMBER: ERØØØ2 DATE COLLECTED (MM/DD/YY): 6-21-94 TIME (HH:MM): 1200

SAMPLING -

LOCATION CODE: MNDOA

DESCRIPTION: NA

POINT CODE: ER

DESCRIPTION: NA

SAMPLE -

MEDIA CODE: 73

DESCRIPTION: RINSE WATER

DEPTH NA TO NA NA

SAMPLE TYPE:

- [X] GRAB
- [ ] TIME COMPOSITE
- [ ] QC RINSATE
- [ ] OTHER (SPECIFY)
- [ ] SPATIAL COMPOSITE
- [ ] QC TRIP BLANK
- [ ] QC FIELD BLANK

FIELD OBSERVATIONS:

Collected in sample trailer using ASTM Type II water over bowl and spoon

Rinsate for subsurface soil samples

Collected BØ5ØØ2 with this rinsate bowl and spoon

SAMPLE COLLECTED: [X] YES [ ] NO

SAP SAMPLING PROCEDURE WAS FOLLOWED: [X] YES [ ] NO FIELD CHANGE ORDER REFERENCE NO: NA

IF SAP WAS NOT FOLLOWED, SPECIFY WHAT DEVIATIONS WERE NECESSARY AND WHY (INCLUDE FIELD CHANGE ORDER REFERENCE NO.):

RECORDED BY: Joletta Humpert (SIGNATURE) QA CHECKED BY Laura M. Morrison 8/17/94 (SIGNATURE)

(SIGNATURE)

SAMPLE LOG SHEET

SAMPLE ID NUMBER: ERØØØ2 PG. 1Ø5 OPS

CONTAINER VOLUME (ml)	CONTAINER TYPE	METHOD NAME AND NUMBER ANALYSIS	PRESERVATIVES (TYPE/VOL)	C-O-C #	AIR BILL #	CONTAINER LOT #	LABORATORY
2-4Ø	Glass	CLPVOA	HCL to pH<2,4C	OACØØ2	821995945 1	B3228Ø2Ø	COMPUC
2-1ØØØ	AmbGlass	CLP SVOC	Cool,4C			H3182Ø1Ø	COMPUC
2-1ØØØ	AmbGlass	CLP PEST / PCB	Cool,4C			H3182Ø1Ø	COMPUC
2-1ØØØ	AmbGlass	EXPLOSIVES	Cool,4C			H3182Ø1Ø	COMPUC
1-1ØØØ	Poly	METALS	HNO3 to pH<2,4C			C4Ø7ØØ1Ø	COMPUC
1-1ØØØ	Poly	CYANIDE	NaOH to pH>12,4C			C4Ø7ØØ1Ø	COMPUC
3 1-1ØØØ GPH 6/21/94	Poly	ANIONS Fl,SO4,Cl	Cool,4C			C4Ø7ØØ1Ø	COMPUC
1-1ØØØ	Poly	NO2/NO3	H2SO4 to pH<2,4C			C4Ø7ØØ1Ø	COMPUC
1-1ØØØ	AmbGlass	TOTAL ORGANIC CARBON	H2SO4 to pH<2,4C			H3182Ø1Ø	COMPUC
1-1ØØØ	Poly	LANTHANIDES	HNO3 TO PH<2			C4Ø7ØØ1Ø	COMPUC
2-1ØØØ	Poly	RADS Pu,Th,U, AMERICIUM SD 8/18/94	HNO3 TO PH<2				COMPUC
2-1ØØØ	Poly	RADS Ac,Sr,GAMMA	HNO3 TO PH<2				COMPUC
1-1ØØØ	Glass	TRITIUM	NONE			H3182Ø1Ø	COMPUC

SAMPLE ID'S RINSATE: NA TRIP BLANK: TBAØØ2 FIELD BLANK: NA FIELD DUPLICATE: NA

RECORDED BY: Joletta Humpert (SIGNATURE) QA CHECKED BY: Laura M. Morrison (SIGNATURE) 8/17/94

Kmsates

SAMPLE LOG SHEET OPS

PROJECT NAME: Mound Operational Area pg. 106 **PROJECT NO:** 2680

SAMPLE ID NUMBER: ER0003 DATE COLLECTED (MM/DD/YY): 6-28-94 TIME (HH:MM): 0730

SAMPLING -

LOCATION CODE: MNDOA

DESCRIPTION: NA

POINT CODE: ER

DESCRIPTION: NA

SAMPLE -

MEDIA CODE: 73

DESCRIPTION: RINSE WATER

DEPTH NA TO NA NA

SAMPLE TYPE:

- [X] GRAB
- [ ] TIME COMPOSITE
- [ ] QC RINSATE
- [ ] OTHER (SPECIFY)
- [ ] SPATIAL COMPOSITE
- [ ] QC TRIP BLANK
- [ ] QC FIELD BLANK

FIELD OBSERVATIONS:

Collected in sample trailer for subsurface sample using ASTM Type II DI Water. Collected and preserved appropriately.

Associated with B07002

SAMPLE COLLECTED: [X] YES [ ] NO

SAP SAMPLING PROCEDURE WAS FOLLOWED: [X] YES [ ] NO FIELD CHANGE ORDER REFERENCE NO: NA

IF SAP WAS NOT FOLLOWED, SPECIFY WHAT DEVIATIONS WERE NECESSARY AND WHY (INCLUDE FIELD CHANGE ORDER REFERENCE NO.):

RECORDED BY: Joletta Humpert (SIGNATURE) QA CHECKED BY: Laura M. Morrison 8/17/94 (SIGNATURE)

(SIGNATURE)

[redacted]

SAMPLE LOG SHEET

SAMPLE ID NUMBER: ERØØØ3 Pg. 107 OPS

CONTAINER VOLUME (ml)	CONTAINER TYPE	METHOD NAME AND NUMBER ANALYSIS	PRESERVATIVES (TYPE/VOL)	C-O-C #	AIR BILL #	CONTAINER LOT #	LABORATORY
2-4Ø	Glass	CLPVOA	HCL to pH < 2,4C	OACØØ6	821996Ø486	B3228Ø2Ø	COMPUC
2-1ØØØ	AmbGlass	CLP SVOC	Cool,4C			H3182Ø1Ø	COMPUC
2-1ØØØ	AmbGlass	CLP PEST / PCB	Cool,4C			↓	COMPUC
2-1ØØØ	AmbGlass	EXPLOSIVES	Cool,4C			↓	COMPUC
1-1ØØØ	Poly	METALS	HNO3 to pH < 2,4C			C3231Ø2Ø	COMPUC
1-1ØØØ	Poly	CYANIDE	NaOH to pH > 12,4C			↓	COMPUC
3 ~~1-1ØØØ~~ SPM 6/28/94	Poly	ANIONS Fl,SO4,Cl	Cool,4C			C3231Ø2Ø	COMPUC
1-1ØØØ	Poly	NO2/NO3	H2SO4 to pH < 2,4C			↓	COMPUC
1-1ØØØ	AmbGlass	TOTAL ORGANIC CARBON	H2SO4 to pH < 2,4C			H3182Ø1Ø	COMPUC
1-1ØØØ	Poly	LANTHANIDES	HNO3 TO PH < 2			C3231Ø2Ø	COMPUC
2-1ØØØ	Poly	RADS Pu,Th,U, AMERICIUM SD 8/12/94	HNO3 TO PH < 2			C3231Ø2Ø	COMPUC
2-1ØØØ	Poly	RADS Ac,Sr,GAMMA	HNO3 TO PH < 2			↓	COMPUC
1-1ØØØ	Glass	TRITIUM	NONE			H3182Ø1Ø	COMPUC

SAMPLE ID'S RINSATE: NA TRIP BLANK: TBAØØ6 FIELD BLANK: NA FIELD DUPLICATE: NA

RECORDED BY: Jolitta Humpert (SIGNATURE) CHECKED BY: Laura M. Morrison 8/17/[redacted] (SIGNATURE)

KMSCATES

SAMPLE LOG SHEET OPS

PROJECT NAME: Mound Operational Area pg 108 **PROJECT NO:** 2680

SAMPLE ID NUMBER: ER0004 DATE COLLECTED (MM/DD/YY): 6-29-94 TIME (HH:MM): 0830

SAMPLING -

LOCATION CODE: MNDOA

DESCRIPTION: NA

POINT CODE: ER

DESCRIPTION: NA

SAMPLE -

MEDIA CODE: 73

DESCRIPTION: RINSE WATER

DEPTH NA TO NA NA

SAMPLE TYPE:

- [X] GRAB
- [ ] TIME COMPOSITE
- [ ] QC RINSATE
- [ ] OTHER (SPECIFY)
- [ ] SPATIAL COMPOSITE
- [ ] QC TRIP BLANK
- [ ] QC FIELD BLANK

FIELD OBSERVATIONS:

Collected in sample trailer using ASTM Type II Water. Collected by pouring water into bailer and then transfering to sample bottles.

Associated with W07001.

SAMPLE COLLECTED: [X] YES [ ] NO

SAP SAMPLING PROCEDURE WAS FOLLOWED: [X] YES [ ] NO FIELD CHANGE ORDER REFERENCE NO: NA

IF SAP WAS NOT FOLLOWED, SPECIFY WHAT DEVIATIONS WERE NECESSARY AND WHY (INCLUDE FIELD CHANGE ORDER REFERENCE NO.):

RECORDED BY: Goletta Humpert (SIGNATURE) QA CHECKED BY: Laura M. Morrison 8/17/94 (SIGNATURE)

(SIGNATURE)

[redacted]

SAMPLE LOG SHEET

SAMPLE ID NUMBER: ERØØØ4 Pg. 109 OPS

CONTAINER VOLUME (ml)	CONTAINER TYPE	METHOD NAME AND NUMBER ANALYSIS	PRESERVATIVES (TYPE/VOL)	C-O-C #	AIR BILL #	CONTAINER LOT #	LABORATORY
4 pH 6/29/94 2-40	Glass	CLPVOA + VOA-8ØlØ	HCL to pH<2,4C	OACØØ7	8219959834	B3228Ø2Ø	COMPUC
2-1ØØØ	AmbGlass	CLP SVOC	Cool,4C			H3182Ø1Ø	COMPUC
2-1ØØØ	AmbGlass	CLP PEST / PCB	Cool,4C				COMPUC
2-1ØØØ	AmbGlass	EXPLOSIVES	Cool,4C				COMPUC
1-1ØØØ	Poly	METALS	HNO3 to pH<2,4C			C3231Ø2Ø	COMPUC
1-1ØØØ	Poly	CYANIDE	NaOH to pH>12,4C				COMPUC
3 pH 6/29/94 1-1ØØØ	Poly	ANIONS Fl,SO4,Cl	Cool,4C				COMPUC
1-1ØØØ	Poly	NO2/NO3	H2SO4 to pH<2,4C				COMPUC
1-1ØØØ	AmbGlass	TOTAL ORGANIC CARBON	H2SO4 to pH<2,4C			~~C4Ø7ØØ1Ø~~ ~~C323~~ H3182Ø1Ø pH 6/29/94	COMPUC
1-1ØØØ	Poly	LANTHANIDES	HNO3 TO PH<2			C3231Ø2Ø	COMPUC
2-1ØØØ	Poly	RADS Pu,Th,U, AMERICIUM SD 8/18/94	HNO3 TO PH<2			C4Ø7ØØ1Ø	COMPUC
2-1ØØØ	Poly	RADS Ac,Sr,GAMMA	HNO3 TO PH<2			C3231Ø2Ø	COMPUC
1-1ØØØ	Glass	TRITIUM	NONE			~~C4Ø7ØØ1Ø~~ H3182Ø1Ø pH 6/29/94 C3231Ø2Ø	COMPUC
1-1ØØØ	Poly	Alkalinity	Cool, 4C				
1-1ØØØ	TKN/TP	Poly	H_2SO_4 to pH<2, 4C				
1-1ØØØ	Poly	TSS	Cool 4C				
↓	↓	TDS	↓	↓	↓	↓	↓

SAMPLE ID'S RINSATE: NA TRIP BLANK: TBAØØ7 FIELD BLANK: NA FIELD DUPLICATE: NA

RECORDED BY: Joletta Humpert (SIGNATURE) CHECKED BY: Laura M. Morrison (SIGNATURE) 8/17/94

7 KMISCLES

SAMPLE LOG SHEET

OPS

PROJECT NAME: Mound Operational Area

pg 110

PROJECT NO: 2680

SAMPLE ID NUMBER: ER0005 DATE COLLECTED (MM/DD/YY): 6/30/94 TIME (HH:MM): 0730

SAMPLING -

LOCATION CODE: MNDOA

DESCRIPTION: NA

POINT CODE: ER

DESCRIPTION: NA

SAMPLE -

MEDIA CODE: 73

DESCRIPTION: RINSE WATER

DEPTH NA TO NA NA

SAMPLE TYPE:

- [X] GRAB
- [ ] SPATIAL COMPOSITE
- [ ] TIME COMPOSITE
- [ ] QC TRIP BLANK
- [ ] QC RINSATE
- [ ] QC FIELD BLANK
- [ ] OTHER (SPECIFY)

FIELD OBSERVATIONS:

Collected rinsate for rads and VOC only in sample trailer on bowl and spoon.

Associated with B16

SAMPLE COLLECTED: [X] YES [ ] NO

SAP SAMPLING PROCEDURE WAS FOLLOWED: [X] YES [ ] NO FIELD CHANGE ORDER REFERENCE NO: NA

IF SAP WAS NOT FOLLOWED, SPECIFY WHAT DEVIATIONS WERE NECESSARY AND WHY (INCLUDE FIELD CHANGE ORDER REFERENCE NO.):

RECORDED BY: Joletta Humpert (SIGNATURE)

QA CHECKED BY: Laura M. Morrison 8/17/94 (SIGNATURE)

SAMPLE LOG SHEET

SAMPLE ID NUMBER: ERØØØ5 pg 111 OPS

CONTAINER VOLUME (ml)	CONTAINER TYPE	METHOD NAME AND NUMBER ANALYSIS	PRESERVATIVES (TYPE/VOL)	C-O-C #	AIR BILL #	CONTAINER LOT #	LABORATORY
2-4Ø	Glass	CLPVOA	HCL to pH < 2,4C	OACØØ8	821996Ø35Ø	B3228Ø2Ø	COMPUC
~~2-1ØØØ~~	~~AmbGlass~~	~~CLP SVOC~~	~~Cool,4C~~				~~COMPUC~~
~~2-1ØØØ~~	~~AmbGlass~~	~~CLP PEST / PCB~~	~~Cool,4C~~				~~COMPUC~~
~~2-1ØØØ~~	~~AmbGlass~~	~~EXPLOSIVES~~	~~Cool,4C~~				~~COMPUC~~
~~1-1ØØØ~~	~~Poly~~	~~METALS~~	~~HNO3 to pH < 2,4C~~				~~COMPUC~~
~~1-1ØØØ~~	~~Poly~~	~~CYANIDE~~	~~NaOH to pH > 12,4C~~				~~COMPUC~~
~~4-1ØØØ~~	~~Poly~~	~~ANIONS Fl,SO4,Cl~~	~~Cool,4C~~				~~COMPUC~~
~~1-1ØØØ~~	~~Poly~~	~~NO2/NO3~~	~~H2SO4 to pH < 2,4C~~				~~COMPUC~~
~~1-1ØØØ~~	~~AmbGlass~~	~~TOTAL ORGANIC CARBON~~	~~H2SO4 to pH < 2,4C~~				~~COMPUC~~
~~1-1ØØØ~~	~~Poly~~	~~LANTHANIDES~~	~~HNO3 TO PH < 2~~				~~COMPUC~~
2-1ØØØ	Poly	RADS Pu,Th,U	HNO3 TO PH < 2	OACØØ8	821996Ø35Ø	C3231Ø2Ø	COMPUC
2-1ØØØ	Poly	RADS Ac,Sr,GAMMA	HNO3 TO PH < 2	↓	↓	↓	COMPUC
1-1ØØØ	Glass	TRITIUM	NONE	↓	↓	H3182Ø1Ø	COMPUC

SAMPLE ID'S RINSATE: NA TRIP BLANK: TBAØØ8 FIELD BLANK: NA FIELD DUPLICATE: NA

RECORDED BY: Joletta Humpert (SIGNATURE) QA CHECKED BY: Laura M. Morrison 8/17/94 (SIGNATURE)

Kmsates

SAMPLE LOG SHEET

OPS

PROJECT NAME: Mound Operational Area

Pg 112

PROJECT NO: 2680

SAMPLE ID NUMBER: ER0006

DATE COLLECTED (MM/DD/YY): 7-6-94

TIME (HH:MM): 0845

SAMPLING -

LOCATION CODE: MNDOA

DESCRIPTION: NA

POINT CODE: ER

DESCRIPTION: NA

SAMPLE -

MEDIA CODE: 73

DESCRIPTION: RINSE WATER

DEPTH NA TO NA NA

SAMPLE TYPE:

- [X] GRAB
- [ ] TIME COMPOSITE
- [ ] QC RINSATE
- [ ] OTHER (SPECIFY)
- [ ] SPATIAL COMPOSITE
- [ ] QC TRIP BLANK
- [ ] QC FIELD BLANK

FIELD OBSERVATIONS:

Collected in sample trailer using ASTM Type II water using bowl and spoons

Associated with B14002

SAMPLE COLLECTED: [X] YES [ ] NO

SAP SAMPLING PROCEDURE WAS FOLLOWED: [X] YES [ ] NO

FIELD CHANGE ORDER REFERENCE NO: NA

IF SAP WAS NOT FOLLOWED, SPECIFY WHAT DEVIATIONS WERE NECESSARY AND WHY (INCLUDE FIELD CHANGE ORDER REFERENCE NO.):

RECORDED BY: Juletta Humpert (SIGNATURE)

QA CHECKED BY: Laura M. Morrison 8/17/94 (SIGNATURE)

SAMPLE LOG SHEET

SAMPLE ID NUMBER: ERØØØ6 pg 113 OPS

CONTAINER VOLUME (ml)	CONTAINER TYPE	METHOD NAME AND NUMBER ANALYSIS	PRESERVATIVES (TYPE/VOL)	C-O-C #	AIR BILL #	CONTAINER LOT #	LABORATORY
2-4Ø	Glass	CLPVOA	HCL to pH<2,4C	pH 7/6/94 ~~N~~ 0ACØ1Ø	821996ØØ81	B3228Ø2Ø	COMPUC
2-1ØØØ	AmbGlass	CLP SVOC	Cool,4C			H3182Ø1Ø	COMPUC
2-1ØØØ	AmbGlass	CLP PEST / PCB	Cool,4C				COMPUC
2-1ØØØ	AmbGlass	EXPLOSIVES	Cool,4C				COMPUC
1-1ØØØ	Poly	METALS	HNO3 to pH<2,4C			C3231Ø2Ø	COMPUC
1-1ØØØ	Poly	CYANIDE	NaOH to pH>12,4C			C3231Ø2Ø	COMPUC
1-1ØØØ	Poly	ANIONS Fl,SO4,Cl	Cool,4C				COMPUC
1-1ØØØ	Poly	NO2/NO3	H2SO4 to pH<2,4C				COMPUC
1-1ØØØ	AmbGlass	TOTAL ORGANIC CARBON	H2SO4 to pH<2,4C			H3182Ø1Ø	COMPUC
1-1ØØØ	Poly	LANTHANIDES	HNO3 TO PH<2			C4Ø7ØØ1Ø	COMPUC
2-1ØØØ	Poly	RADS Pu,Th,U	HNO3 TO PH<2				COMPUC
2-1ØØØ	Poly	RADS Ac,Sr,GAMMA	HNO3 TO PH<2				COMPUC
1-1ØØØ	Glass	TRITIUM	NONE			H3182Ø1Ø	COMPUC

SAMPLE ID'S RINSATE: NA TRIP BLANK: TBAØ1Ø FIELD BLANK: NA FIELD DUPLICATE: NA

RECORDED BY: Joletta Humpert (SIGNATURE) CHECKED BY: Laura M. Morrison (SIGNATURE) 8/17/94

Kmscates

SAMPLE LOG SHEET

pg 114

PROJECT NAME: Mound Operational Area

PROJECT NO: 2680

SAMPLE ID NUMBER: ERØØØ7

DATE COLLECTED (MM/DD/YY): 7-7-94

TIME (HH:MM): Ø7ØØ

SAMPLING -

LOCATION CODE: MNDOA

DESCRIPTION:

POINT CODE: ER

DESCRIPTION:

SAMPLE -

MEDIA CODE: 73

DESCRIPTION: RINSE WATER

DEPTH NA TO NA NA

JPH 7/7/94

SAMPLE TYPE:

- [X] GRAB
- [ ] TIME COMPOSITE
- [ ] QC RINSATE
- [ ] OTHER (SPECIFY)
- [ ] SPATIAL COMPOSITE
- [ ] QC TRIP BLANK
- [ ] QC FIELD BLANK

FIELD OBSERVATIONS:

Collected for crews using spoon and bowl and ASTM DI Water.

Nitric Acid J.T. Baker lot no. G48Ø31

SAMPLE COLLECTED: [X] YES [ ] NO

SAP SAMPLING PROCEDURE WAS FOLLOWED: [X] YES [ ] NO

FIELD CHANGE ORDER REFERENCE NO:

IF SAP WAS NOT FOLLOWED, SPECIFY WHAT DEVIATIONS WERE NECESSARY AND WHY (INCLUDE FIELD CHANGE ORDER REFERENCE NO.):

RECORDED BY: Joletta Humpert (SIGNATURE)

QA CHECKED BY: (SIGNATURE)

(SIGNATURE)

SAMPLE LOG SHEET

SAMPLE ID NUMBER: ERØØØ7

pg 115

CONTAINER VOLUME (ml)	CONTAINER TYPE	METHOD NAME AND NUMBER ANALYSIS	PRESERVATIVES (TYPE/VOL)	C-O-C #	AIR BILL #	CONTAINER LOT #	LABORATORY
4 ~~2~~-4Ø	Glass	CLPVOA + VOA-8Ø1Ø	HCL to pH<2,4C			B3228Ø2Ø	COMPUC
2-1ØØØ	AmbGlass	CLP SVOC	Cool,4C			H3182Ø1Ø	COMPUC
2-1ØØØ	AmbGlass	CLP PEST / PCB	Cool,4C				COMPUC
2-1ØØØ	AmbGlass	EXPLOSIVES	Cool,4C				COMPUC
1-1ØØØ	Poly	METALS	HNO3 to pH<2,4C				COMPUC
1-1ØØØ	Poly	CYANIDE	NaOH to pH>12,4C				COMPUC
1-1ØØØ	Poly	ANIONS Fl,SO4,Cl	Cool,4C			C3231Ø2Ø	COMPUC
1-1ØØØ	Poly	NO2/NO3	H2SO4 to pH<2,4C				COMPUC
1-1ØØØ	AmbGlass	TOTAL ORGANIC CARBON	H2SO4 to pH<2,4C				COMPUC
1-1ØØØ	Poly	LANTHANIDES	HNO3 TO PH<2				COMPUC
2-1ØØØ	Poly	RADS Pu,Th,U	HNO3 TO PH<2				COMPUC
2-1ØØØ	Poly	RADS Ac,Sr,GAMMA	HNO3 TO PH<2				COMPUC
1-1ØØØ	Glass	TRITIUM	NONE				COMPUC

pH 7/7/94

SAMPLE ID'S RINSATE: _____ TRIP BLANK: _____ FIELD BLANK: _____ FIELD DUPLICATE: _____

RECORDED BY: _____ (SIGNATURE) CHECKED BY: _____ (SIGNATURE)

7 KMSOTES

SAMPLE LOG SHEET Pg 116

PROJECT NAME: Mound Operational Area

OPS
PROJECT NO: 268Ø

SAMPLE ID NUMBER: ERØØØ8 DATE COLLECTED (MM/DD/YY): 7-2Ø94 TIME (HH:MM): Ø715

SAMPLING -

LOCATION CODE: MNDOA

DESCRIPTION: NA

POINT CODE: ER

DESCRIPTION: NA

SAMPLE -

MEDIA CODE: 73

DESCRIPTION: RINSE WATER

DEPTH NA TO NA NA

SAMPLE TYPE:

- [X] GRAB
- [ ] TIME COMPOSITE
- [ ] QC RINSATE
- [ ] OTHER (SPECIFY)
- [ ] SPATIAL COMPOSITE
- [ ] QC TRIP BLANK
- [ ] QC FIELD BLANK

FIELD OBSERVATIONS:

Collected in sample trailer using ASTM Type II water. Associated with ~~B09~~ pH 7/20/94 B12Ø02.

SAMPLE COLLECTED: [X] YES [ ] NO

SAP SAMPLING PROCEDURE WAS FOLLOWED: [X] YES [ ] NO FIELD CHANGE ORDER REFERENCE NO: NA

IF SAP WAS NOT FOLLOWED, SPECIFY WHAT DEVIATIONS WERE NECESSARY AND WHY (INCLUDE FIELD CHANGE ORDER REFERENCE NO.):

RECORDED BY: Joletta Humpert (SIGNATURE)

QA CHECKED BY: Laura M. Morrison 8/17/94 (SIGNATURE)

SAMPLE LOG SHEET

SAMPLE ID NUMBER: ERØØØ8 pg 117 OPS

CONTAINER VOLUME (ml)	CONTAINER TYPE	METHOD NAME AND NUMBER ANALYSIS	PRESERVATIVES (TYPE/VOL)	C-O-C #	AIR BILL #	CONTAINER LOT #	LABORATORY
2-4Ø	Glass	CLPVOA	HCL to pH<2,4C	OACØ16	B21996Ø626	B3228Ø2Ø	COMPUC
2-1ØØØ	AmbGlass	CLP SVOC	Cool,4C			H3182Ø1Ø	COMPUC
2-1ØØØ	AmbGlass	CLP PEST / PCB	Cool,4C				COMPUC
2-1ØØØ	AmbGlass	EXPLOSIVES	Cool,4C				COMPUC
1-1ØØØ	Poly	METALS	HNO3 to pH<2,4C			C4Ø7ØØ1Ø	COMPUC
1-1ØØØ	Poly	CYANIDE	NaOH to pH>12,4C				COMPUC
1-1ØØØ	Poly	ANIONS Fl,SO4,Cl	Cool,4C			C3231Ø2Ø	COMPUC
1-1ØØØ	Poly	NO2/NO3	H2SO4 to pH<2,4C			C4Ø7ØØ1Ø	COMPUC
1-1ØØØ	AmbGlass	TOTAL ORGANIC CARBON	H2SO4 to pH<2,4C			H3182Ø1Ø	COMPUC
1-1ØØØ	Poly	LANTHANIDES	HNO3 TO PH<2			C3231Ø2Ø	COMPUC
2-1ØØØ	Poly	RADS Pu,Th,U	HNO3 TO PH<2			C4Ø7ØØ1Ø	COMPUC
2-1ØØØ	Poly	RADS Ac,Sr,GAMMA	HNO3 TO PH<2			C3231Ø2Ø	COMPUC
1-1ØØØ	Glass	TRITIUM	NONE			H3182Ø1Ø	COMPUC

SAMPLE ID'S RINSATE: NA TRIP BLANK: TBAØ16 FIELD BLANK: NA FIELD DUPLICATE: NA

RECORDED BY: Jolitta Humpert (SIGNATURE) QA CHECKED BY: Laura M. Morrison (SIGNATURE) 8/17/91

Kmsates

SAMPLE LOG SHEET

OPS

PROJECT NAME: Mound Operational Area

pg 118

PROJECT NO: 2680

SAMPLE ID NUMBER: ER0009 DATE COLLECTED (MM/DD/YY): 7-22-94 TIME (HH:MM): 1100

SAMPLING -

LOCATION CODE: MNDOA

DESCRIPTION: NA

POINT CODE: ER

DESCRIPTION: NA

SAMPLE -

MEDIA CODE: 73

DESCRIPTION: RINSE WATER

DEPTH NA TO NA NA

SAMPLE TYPE:

- [X] GRAB
- [ ] SPATIAL COMPOSITE
- [ ] TIME COMPOSITE
- [ ] QC TRIP BLANK
- [ ] QC RINSATE
- [ ] QC FIELD BLANK
- [ ] OTHER (SPECIFY)

FIELD OBSERVATIONS:

Collected in sample trailer using ASTM Type II Water. Associated with sample (surface) B15001.

SAMPLE COLLECTED: [X] YES [ ] NO

SAP SAMPLING PROCEDURE WAS FOLLOWED: [X] YES [ ] NO FIELD CHANGE ORDER REFERENCE NO: NA

IF SAP WAS NOT FOLLOWED, SPECIFY WHAT DEVIATIONS WERE NECESSARY AND WHY (INCLUDE FIELD CHANGE ORDER REFERENCE NO.):

RECORDED BY: Joletta Humpert (SIGNATURE)

QA CHECKED BY: Laura M. Morrison 8/17/94 (SIGNATURE)

(SIGNATURE)

[redacted]

SAMPLE LOG SHEET

SAMPLE ID NUMBER: ERØØØ9 Pg 119 OPS

CONTAINER VOLUME (ml)	CONTAINER TYPE	METHOD NAME AND NUMBER ANALYSIS	PRESERVATIVES (TYPE/VOL)	C-O-C #	AIR BILL # JPH 7/22/94	CONTAINER LOT #	LABORATORY
2-4Ø	Glass	CLPVOA	HCL to pH<2,4C	OACØ18	8219989742	B3228Ø2Ø	COMPUC
2-1ØØØ	AmbGlass	CLP SVOC	Cool,4C			H3182Ø1Ø	COMPUC
2-1ØØØ	AmbGlass	CLP PEST / PCB	Cool,4C				COMPUC
2-1ØØØ	AmbGlass	EXPLOSIVES	Cool,4C				COMPUC
1-1ØØØ	Poly	METALS	HNO3 to pH<2,4C			C4Ø7ØØ1Ø	COMPUC
1-1ØØØ	Poly	CYANIDE	NaOH to pH>12,4C				COMPUC
3 JPH 7/22/94 ~~1-1ØØØ~~	Poly	ANIONS Fl,SO4,Cl	Cool,4C				COMPUC
1-1ØØØ	Poly	NO2/NO3	H2SO4 to pH<2,4C				COMPUC
1-1ØØØ	AmbGlass	TOTAL ORGANIC CARBON	H2SO4 to pH<2,4C			H3182Ø1Ø	COMPUC
1-1ØØØ	Poly	LANTHANIDES	HNO3 TO PH<2			C4Ø7ØØ1Ø	COMPUC
2-1ØØØ	Poly	RADS Pu,Th,U, Americium	HNO3 TO PH<2				COMPUC
2-1ØØØ	Poly	RADS Ac,Sr,GAMMA	HNO3 TO PH<2				COMPUC
1-1ØØØ	Glass	TRITIUM	NONE			H3182Ø1Ø	COMPUC

SAMPLE ID'S RINSATE: NA TRIP BLANK: TBAØ18 FIELD BLANK: NA FIELD DUPLICATE: NA

RECORDED BY: Jolotta Humpert (SIGNATURE) CHECKED BY: Laura M. Morrison (SIGNATURE) 8/17/94

KMSOLES

SAMPLE LOG SHEET

PROJECT NAME: Mound Operational Area

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OPS

PROJECT NO: 2680

SAMPLE ID NUMBER: ER0010 DATE COLLECTED (MM/DD/YY): 7-26-94 TIME (HH:MM): 1000

SAMPLING -

LOCATION CODE: MNDOA

DESCRIPTION: NA

POINT CODE: ER

DESCRIPTION: NA

SAMPLE -

MEDIA CODE: 73

DESCRIPTION: RINSE WATER

DEPTH NA TO NA NA

SAMPLE TYPE:

- [X] GRAB
- [ ] TIME COMPOSITE
- [ ] QC RINSATE
- [ ] OTHER (SPECIFY)
- [ ] SPATIAL COMPOSITE
- [ ] QC TRIP BLANK
- [ ] QC FIELD BLANK

FIELD OBSERVATIONS:

Collected in sample trailer using ASTM Type II water. Collected on bottle and large spoon

Associated with B15004

SAMPLE COLLECTED: [X] YES [ ] NO

SAP SAMPLING PROCEDURE WAS FOLLOWED: [X] YES [ ] NO FIELD CHANGE ORDER REFERENCE NO: NA

IF SAP WAS NOT FOLLOWED, SPECIFY WHAT DEVIATIONS WERE NECESSARY AND WHY (INCLUDE FIELD CHANGE ORDER REFERENCE NO.):

RECORDED BY: Joletta Humpert (SIGNATURE)

QA CHECKED BY: Laura M. Morrison 8/17/94 (SIGNATURE)

(SIGNATURE)

SAMPLE LOG SHEET

SAMPLE ID NUMBER: ERØØ1Ø Pg 121 OPS

CONTAINER VOLUME (ml)	CONTAINER TYPE	METHOD NAME AND NUMBER ANALYSIS	PRESERVATIVES (TYPE/VOL)	C-O-C #	AIR BILL #	CONTAINER LOT #	LABORATORY
2-4Ø	Glass	CLPVOA	HCL to pH<2,4C	OACØ2Ø	8219959613	B3228Ø2Ø	COMPUC
2-1ØØØ	AmbGlass	CLP SVOC	Cool,4C			H3182Ø1Ø	COMPUC
2-1ØØØ	AmbGlass	CLP PEST / PCB	Cool,4C				COMPUC
2-1ØØØ	AmbGlass	EXPLOSIVES	Cool,4C				COMPUC
1-1ØØØ	Poly	METALS	HNO3 to pH<2,4C			C4Ø7ØØ1Ø	COMPUC
1-1ØØØ	Poly	CYANIDE	NaOH to pH>12,4C				COMPUC
3/ 1-1ØØØ	Poly	ANIONS Fl,SO4,Cl	Cool,4C				COMPUC
1-1ØØØ	Poly	NO2/NO3	H2SO4 to pH<2,4C				COMPUC
1-1ØØØ	AmbGlass	TOTAL ORGANIC CARBON	H2SO4 to pH<2,4C			H3182Ø1Ø	COMPUC
1-1ØØØ	Poly	LANTHANIDES	HNO3 TO PH<2			C4Ø7ØØ1Ø	COMPUC
2-1ØØØ	Poly	RADS Pu,Th,U	HNO3 TO PH<2				COMPUC
2-1ØØØ	Poly	RADS Ac,Sr,GAMMA	HNO3 TO PH<2				COMPUC
1-1ØØØ	Glass	TRITIUM	NONE			H3182Ø1Ø	COMPUC

SAMPLE ID'S RINSATE: NA TRIP BLANK: TBAØ2Ø FIELD BLANK: NA FIELD DUPLICATE: NA

RECORDED BY: Joletta Hunpest (SIGNATURE) CHECKED BY: Laura M. Marian 8/17/9 (SIGNATURE)

KMSOLES

SAMPLE LOG SHEET

OPS

PROJECT NAME: Mound Operational Area

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PROJECT NO: 2680

SAMPLE ID NUMBER: ERØØ11 DATE COLLECTED (MM/DD/YY): 9/13/94 TIME (HH:MM): 1500

SAMPLING -

LOCATION CODE: MNDOA

DESCRIPTION: NA

POINT CODE: ER

DESCRIPTION: NA

SAMPLE -

MEDIA CODE: 73

DESCRIPTION: RINSE WATER

DEPTH NA TO NA NA

SAMPLE TYPE:

- [X] GRAB
- [ ] TIME COMPOSITE
- [ ] QC RINSATE
- [ ] OTHER (SPECIFY)
- [ ] SPATIAL COMPOSITE
- [ ] QC TRIP BLANK
- [ ] QC FIELD BLANK

FIELD OBSERVATIONS:

Collected using bowl + spoon and Type II DI Water

Collected because of 6 additional explosives samples collected on 9/14/94

SAMPLE COLLECTED: [✓] YES [ ] NO

SAP SAMPLING PROCEDURE WAS FOLLOWED: [✓] YES [ ] NO FIELD CHANGE ORDER REFERENCE NO:

IF SAP WAS NOT FOLLOWED, SPECIFY WHAT DEVIATIONS WERE NECESSARY AND WHY (INCLUDE FIELD CHANGE ORDER REFERENCE NO.):

RECORDED BY: Joletta Humpert (SIGNATURE) QA CHECKED BY: [signature] (SIGNATURE)

(SIGNATURE)

SAMPLE LOG SHEET

SAMPLE ID NUMBER: ERØØ11 Pg 123 OPS

CONTAINER VOLUME (ml)	CONTAINER TYPE	METHOD NAME AND NUMBER ANALYSIS	PRESERVATIVES (TYPE/VOL)	C-O-C #	AIR BILL #	CONTAINER LOT #	LABORATORY
~~2-40~~	~~Glass~~	~~CLPVOA~~	~~HCL to pH<2,4C~~				~~COMPUC~~
~~2-1ØØØ~~	~~AmbGlass~~	~~CLP SVOC~~ JPH 9/13/94	Cool,4C				~~COMPUC~~
~~2-1ØØØ~~	~~AmbGlass~~	~~CLP PEST / PCB~~	Cool,4C				~~COMPUC~~
2-1ØØØ	AmbGlass	EXPLOSIVES	Cool,4C	OACØ25	8219959856	H3182Ø1Ø	COMPUC
~~1-1ØØØ~~	~~Poly~~	~~METALS~~	~~HNO3 to pH<2,4C~~				~~COMPUC~~
~~1-1ØØØ~~	~~Poly~~	~~CYANIDE~~	~~NaOH to pH>12,4C~~				~~COMPUC~~
~~1-1ØØØ~~	~~Poly~~	~~ANIONS Fl,SO4,Cl~~	~~Cool,4C~~				~~COMPUC~~
~~1-1ØØØ~~	~~Poly~~	~~NO2/NO3~~	~~H2SO4 to pH<2,4C~~				~~COMPUC~~
~~1-1ØØØ~~	~~AmbGlass~~	~~TOTAL ORGANIC CARBON~~	~~H2SO4 to pH<2,4C~~				COMPUC
~~1-1ØØØ~~	~~Poly~~	~~LANTHANIDES~~ JPH 9/14/94	HNO3 TO PH<2				~~COMPUC~~
~~2-1ØØØ~~	~~Poly~~	~~RADS Pu,Th,U~~	~~HNO3 TO PH<2~~				~~COMPUC~~
~~2-1ØØØ~~	~~Poly~~	~~RADS Ac,Sr,GAMMA~~	~~HNO3 TO PH<2~~				~~COMPUC~~
~~1-1ØØØ~~	~~Glass~~	~~TRITIUM~~	~~NONE~~				~~COMPUC~~

SAMPLE ID'S RINSATE: NA TRIP BLANK: NA FIELD BLANK: NA FIELD DUPLICATE: NA

RECORDED BY: Jolletta Humpest (SIGNATURE) CHECKED BY: (SIGNATURE)

KMSOLES

SAMPLE LOG SHEET

pg. 132

OPS

PROJECT NAME: Mound Operational Area

PROJECT NO: 2680

SAMPLE ID NUMBER: AB0001 DATE COLLECTED (MM/DD/YY): 6/20/94 TIME (HH:MM): 1045

SAMPLING -

LOCATION CODE: MNDOA

DESCRIPTION: NA

POINT CODE: AB

DESCRIPTION: NA

SAMPLE -

MEDIA CODE: 72

DESCRIPTION: ASTM WATER

DEPTH NA TO NA NA

SAMPLE TYPE:

- [X] GRAB
- [ ] TIME COMPOSITE
- [ ] QC RINSATE
- [ ] OTHER (SPECIFY)
- [ ] SPATIAL COMPOSITE
- [ ] QC TRIP BLANK
- [ ] QC FIELD BLANK

FIELD OBSERVATIONS:

Collected at drill ~~time~~ SPH 6/20/94 rig approx. 30' to N of rig. Collected 2 40-ml vials using ASTM Type II water. Sunny @ 95F. Rig idling at time of collection. Collecting BA1003

SAMPLE COLLECTED: [X] YES [ ] NO

SAP SAMPLING PROCEDURE WAS FOLLOWED: [X] YES [ ] NO FIELD CHANGE ORDER REFERENCE NO: NA

IF SAP WAS NOT FOLLOWED, SPECIFY WHAT DEVIATIONS WERE NECESSARY AND WHY (INCLUDE FIELD CHANGE ORDER REFERENCE NO.):

RECORDED BY: Joletta Humpert (SIGNATURE)

QA CHECKED BY: Laura M. Morrison 8/17/94 (SIGNATURE)

SAMPLE LOG SHEET

SAMPLE ID NUMBER: AB0001 Pg. 133 OPS

CONTAINER VOLUME (ml)	CONTAINER TYPE	METHOD NAME AND NUMBER ANALYSIS	PRESERVATIVES (TYPE/VOL)	C-O-C #	AIR BILL #	CONTAINER LOT #	LABORATORY
2-40	Glass	CLPVOA	HCL to pH < 2,4C	OAC001	9289476350	B3228020	COMPUC

SAMPLE ID'S RINSATE: NA TRIP BLANK: TBA001 FIELD BLANK: NA FIELD DUPLICATE: NA

RECORDED BY: Juletta Humpert (SIGNATURE) QA CHECKED BY: Laura M. Morrison 8/17/94 (SIGNATURE)

Kmsates

SAMPLE LOG SHEET

OPS

PROJECT NAME: Mound Operational Area

pg 134

PROJECT NO: 2680

SAMPLE ID NUMBER: AB0002 DATE COLLECTED (MM/DD/YY): 6-27-94 TIME (HH:MM): 1100

SAMPLING -

LOCATION CODE: MNDOA

DESCRIPTION: NA

POINT CODE: AB

DESCRIPTION: NA

SAMPLE -

MEDIA CODE: 72

DESCRIPTION: ASTM WATER

DEPTH NA TO NA NA

SAMPLE TYPE:

- [X] GRAB
- [ ] TIME COMPOSITE
- [ ] QC RINSATE
- [ ] OTHER (SPECIFY)
- [ ] SPATIAL COMPOSITE
- [ ] QC TRIP BLANK
- [ ] QC FIELD BLANK

FIELD OBSERVATIONS:

Collected at B03 in Area 7 while crew collected W03001 (groundwater).

Collected by filling 2-40-ml vials with ASTM Type II water approx. 10' from rig. Rig not running. Crew using bailer to collect sample.

SAMPLE COLLECTED: [X] YES [ ] NO

SAP SAMPLING PROCEDURE WAS FOLLOWED: [X] YES [ ] NO FIELD CHANGE ORDER REFERENCE NO: NA

IF SAP WAS NOT FOLLOWED, SPECIFY WHAT DEVIATIONS WERE NECESSARY AND WHY (INCLUDE FIELD CHANGE ORDER REFERENCE NO.):

RECORDED BY: Joletta Humpert (SIGNATURE) QA CHECKED BY: Laura M. Morrison 8/17/94 (SIGNATURE)

SAMPLE LOG SHEET

SAMPLE ID NUMBER: AØØØ2 pg 135 OPS

CONTAINER VOLUME (ml)	CONTAINER TYPE	METHOD NAME AND NUMBER ANALYSIS	PRESERVATIVES (TYPE/VOL)	C-O-C #	AIR BILL #	CONTAINER LOT #	LABORATORY
2-4Ø	Glass	CLPVOA	HCL to pH < 2,4C	OACØØ5	8219960372	B3228Ø2Ø	COMPUC

SAMPLE ID'S RINSATE: NA TRIP BLANK: TBAØØ5 FIELD BLANK: NA FIELD DUPLICATE: NA

RECORDED BY: Joletta Humpert (SIGNATURE) CHECKED BY: Laura M. Morrison (SIGNATURE) 8/17/

KMSOLES

SAMPLE LOG SHEET OPS

PROJECT NAME: Mound Operational Area pg 136 **PROJECT NO:** 2680

SAMPLE ID NUMBER: AB0003 DATE COLLECTED (MM/DD/YY): 6/28/94 TIME (HH:MM): 1530

SAMPLING -

LOCATION CODE: MNDOA

DESCRIPTION: NA

POINT CODE: AB

DESCRIPTION: NA

SAMPLE -

MEDIA CODE: 72

DESCRIPTION: ASTM WATER

DEPTH NA TO NA NA

SAMPLE TYPE:

- [X] GRAB
- [ ] TIME COMPOSITE
- [ ] QC RINSATE
- [ ] OTHER (SPECIFY)
- [ ] SPATIAL COMPOSITE
- [ ] QC TRIP BLANK
- [ ] QC FIELD BLANK

FIELD OBSERVATIONS:

Collected at B07 using ASTM Type II water associated with B07002. ~~and B07001~~ JPH 6/30/94

SAMPLE COLLECTED: [X] YES [ ] NO

SAP SAMPLING PROCEDURE WAS FOLLOWED: [X] YES [ ] NO FIELD CHANGE ORDER REFERENCE NO: NA

IF SAP WAS NOT FOLLOWED, SPECIFY WHAT DEVIATIONS WERE NECESSARY AND WHY (INCLUDE FIELD CHANGE ORDER REFERENCE NO.):

RECORDED BY: Joletta Humpert (SIGNATURE) QA CHECKED BY: Laura M. Morrison 8/17/94 (SIGNATURE)

SAMPLE LOG SHEET

SAMPLE ID NUMBER: AB000 3 Pg 137 OPS

CONTAINER VOLUME (ml)	CONTAINER TYPE	METHOD NAME AND NUMBER ANALYSIS	PRESERVATIVES (TYPE/VOL)	C-O-C #	AIR BILL #	CONTAINER LOT #	LABORATORY
2-40	Glass	CLPVOA	HCL to pH<2,4C	OAC006	8219960486	B3228020	COMPUC

SAMPLE ID'S RINSATE: NA TRIP BLANK: TBA006 FIELD BLANK: NA FIELD DUPLICATE: NA

RECORDED BY: Joletta Humpert (SIGNATURE) QA CHECKED BY: Laura M. Morrison (SIGNATURE) 8/17/94

KMSOLES

SAMPLE LOG SHEET

OPS

PROJECT NAME: Mound Operational Area

pg 138

PROJECT NO: 2680

SAMPLE ID NUMBER: AB0004 DATE COLLECTED (MM/DD/YY): 7-7-94 TIME (HH:MM): 1419

SAMPLING -

LOCATION CODE: MNDOA

DESCRIPTION: NA

POINT CODE: AB

DESCRIPTION: NA

SAMPLE -

MEDIA CODE: 72

DESCRIPTION: ASTM WATER

DEPTH NA TO NA NA

SAMPLE TYPE:

- [X] GRAB
- [ ] TIME COMPOSITE
- [ ] QC RINSATE
- [ ] OTHER (SPECIFY)
- [ ] SPATIAL COMPOSITE
- [ ] QC TRIP BLANK
- [ ] QC FIELD BLANK

FIELD OBSERVATIONS:

Collected air location at seep S01001 using ASTM Type II Water. Collected 2 40-ml vials.

SAMPLE COLLECTED: [X] YES [ ] NO

SAP SAMPLING PROCEDURE WAS FOLLOWED: [X] YES [ ] NO FIELD CHANGE ORDER REFERENCE NO: NA

IF SAP WAS NOT FOLLOWED, SPECIFY WHAT DEVIATIONS WERE NECESSARY AND WHY (INCLUDE FIELD CHANGE ORDER REFERENCE NO.):

RECORDED BY: Joletta Humpert (SIGNATURE)

QA CHECKED BY: Laura M. Morrison 8/17/94 (SIGNATURE)

(SIGNATURE)

SAMPLE LOG SHEET

SAMPLE ID NUMBER: ABØØØ4 pg 139 OPS

CONTAINER VOLUME (ml)	CONTAINER TYPE	METHOD NAME AND NUMBER ANALYSIS	PRESERVATIVES (TYPE/VOL)	C-O-C #	AIR BILL #	CONTAINER LOT #	LABORATORY
2-4Ø	Glass	CLPVOA	HCL to pH < 2,4C	OACØ11	8219960151	B3228Ø2Ø	COMPUC

SAMPLE ID'S RINSATE: NA TRIP BLANK: TBAØ11 FIELD BLANK: NA FIELD DUPLICATE: NA

RECORDED BY: Joletta Humpert (SIGNATURE) QA CHECKED BY: Laura M. Morrison 8/17/91 (SIGNATURE)

SAMPLE LOG SHEET

OB

PROJECT NAME: Mound Operational Area

pg 140

PROJECT NO: 2680

SAMPLE ID NUMBER: ABØØØ5 DATE COLLECTED (MM/DD/YY): 7-19-94 TIME (HH:MM): Ø751

SAMPLING -

LOCATION CODE: MNDOA

DESCRIPTION: NA

POINT CODE: AB

DESCRIPTION: NA

SAMPLE -

MEDIA CODE: 72

DESCRIPTION: ASTM WATER

DEPTH NA TO NA NA

SAMPLE TYPE:

- [X] GRAB
- [ ] TIME COMPOSITE
- [ ] QC RINSATE
- [ ] OTHER (SPECIFY)
- [ ] SPATIAL COMPOSITE
- [ ] QC TRIP BLANK
- [ ] QC FIELD BLANK

FIELD OBSERVATIONS:

Collected at BØ9 while collecting BØ9ØØ1 using ASTM Type II water. Two 40-ml vials collected.

SAMPLE COLLECTED: [X] YES [ ] NO

SAP SAMPLING PROCEDURE WAS FOLLOWED: [X] YES [ ] NO FIELD CHANGE ORDER REFERENCE NO: NA

IF SAP WAS NOT FOLLOWED, SPECIFY WHAT DEVIATIONS WERE NECESSARY AND WHY (INCLUDE FIELD CHANGE ORDER REFERENCE NO.):

RECORDED BY: Joletta Humpert (SIGNATURE)

QA CHECKED BY Laura M. Marikon 8/17/94 (SIGNATURE)

SAMPLE LOG SHEET

SAMPLE ID NUMBER: ABØØØ5 pg 141 OPS

CONTAINER VOLUME (ml)	CONTAINER TYPE	METHOD NAME AND NUMBER ANALYSIS	PRESERVATIVES (TYPE/VOL)	C-O-C #	AIR BILL #	CONTAINER LOT #	LABORATORY
2-4Ø	Glass	CLPVOA	HCL to pH < 2,4C	OACØ15	821996Ø55Ø	B3228Ø2Ø	COMPUC

SAMPLE ID'S RINSATE: NA TRIP BLANK: TBAØ15 FIELD BLANK: NA FIELD DUPLICATE: NA

RECORDED BY: Juletta Hungert (SIGNATURE) QA CHECKED BY: Laura M. Morrison 8/17/94 (SIGNATURE)

SAMPLE LOG SHEET

OPS

PROJECT NAME: Mound Operational Area

pg 142

PROJECT NO: 2680

SAMPLE ID NUMBER: AB0006 DATE COLLECTED (MM/DD/YY): 7/27/94 TIME (HH:MM): 0852

SAMPLING -

LOCATION CODE: MNDOA

DESCRIPTION: NA

POINT CODE: AB

DESCRIPTION: NA

SAMPLE -

MEDIA CODE: 72

DESCRIPTION: ASTM WATER

DEPTH NA TO NA NA

SAMPLE TYPE:

- [X] GRAB
- [ ] SPATIAL COMPOSITE
- [ ] TIME COMPOSITE
- [ ] QC TRIP BLANK
- [ ] QC RINSATE
- [ ] QC FIELD BLANK
- [ ] OTHER (SPECIFY) _____

FIELD OBSERVATIONS:

Collected at B15 using ASTM Type II Water.

SAMPLE COLLECTED: [X] YES [ ] NO

SAP SAMPLING PROCEDURE WAS FOLLOWED: [X] YES [ ] NO FIELD CHANGE ORDER REFERENCE NO: NA

IF SAP WAS NOT FOLLOWED, SPECIFY WHAT DEVIATIONS WERE NECESSARY AND WHY (INCLUDE FIELD CHANGE ORDER REFERENCE NO.):

RECORDED BY: Joletta Humpert (SIGNATURE)

QA CHECKED BY: Laura M. Morrison 8/17/94 (SIGNATURE)

SAMPLE LOG SHEET

SAMPLE ID NUMBER: ABØØØ6 pg 143 OPS

CONTAINER VOLUME (ml)	CONTAINER TYPE	METHOD NAME AND NUMBER ANALYSIS	PRESERVATIVES (TYPE/VOL)	C-O-C #	AIR BILL #	CONTAINER LOT #	LABORATORY
2-4Ø	Glass	CLPVOA	HCL to pH < 2,4C	OACØ21	8219959926	B322BØ2Ø	COMPUC

SAMPLE ID'S RINSATE: NA TRIP BLANK: TBAØ21 FIELD BLANK: NA FIELD DUPLICATE: NA

RECORDED BY: Joletta Humpert (SIGNATURE) QA CHECKED BY: Laura M. Morrison (SIGNATURE) 8/17/94

Sample Book [illegible] Blank RINSATES

SAMPLE LOG SHEET

OPS

PROJECT NAME: Mound Operational Area

Pg 150

PROJECT NO: 2680

SAMPLE ID NUMBER: BB0001 DATE COLLECTED (MM/DD/YY): 6/20/94 TIME (HH:MM): 1115

SAMPLING -

LOCATION CODE: MNDOA

DESCRIPTION: NA

POINT CODE: BB

DESCRIPTION: NA

SAMPLE -

MEDIA CODE: 72

DESCRIPTION: ASTM WATER

DEPTH NA TO NA NA

SAMPLE TYPE:

- [X] GRAB
- [ ] TIME COMPOSITE
- [ ] QC RINSATE
- [ ] OTHER (SPECIFY)
- [ ] SPATIAL COMPOSITE
- [ ] QC TRIP BLANK
- [ ] QC FIELD BLANK

FIELD OBSERVATIONS: Collected in sample trailer using ASTM Type II DI water when packaging B01002.

SAMPLE COLLECTED: [X] YES [ ] NO

SAP SAMPLING PROCEDURE WAS FOLLOWED: [X] YES [ ] NO FIELD CHANGE ORDER REFERENCE NO: NA

IF SAP WAS NOT FOLLOWED, SPECIFY WHAT DEVIATIONS WERE NECESSARY AND WHY (INCLUDE FIELD CHANGE ORDER REFERENCE NO.):

RECORDED BY: Joletta Humpert (SIGNATURE)

QA CHECKED BY: Laura M. Morrison 8/17/94 (SIGNATURE)

SAMPLE LOG SHEET

SAMPLE ID NUMBER: BBØØØ1 pg. 151 OPS

CONTAINER VOLUME (ml)	CONTAINER TYPE	METHOD NAME AND NUMBER ANALYSIS	PRESERVATIVES (TYPE/VOL)	C-O-C #	AIR BILL #	CONTAINER LOT #	LABORATORY
2-4Ø	Glass	CLPVOA	HCL to pH < 2,4C	OACØØ1	9289476350	B3228Ø2Ø	COMPUC

SAMPLE ID'S RINSATE: NA TRIP BLANK: TBAØØ1 FIELD BLANK: NA FIELD DUPLICATE: NA

RECORDED BY: Joletta Humpert (SIGNATURE) QA CHECKED BY: Laura M. Morrison 8/17/8[illegible] (SIGNATURE)

Sample Book

SAMPLE LOG SHEET

pg 152

PROJECT NAME: Mound Operational Area

OPS

PROJECT NO: 2680

SAMPLE ID NUMBER: BB0002 DATE COLLECTED (MM/DD/YY): 6/27/94 TIME (HH:MM): 1400

SAMPLING -

LOCATION CODE: MNDOA

DESCRIPTION: NA

POINT CODE: BB

DESCRIPTION: NA

SAMPLE -

MEDIA CODE: 72

DESCRIPTION: ASTM WATER

DEPTH NA TO NA NA

SAMPLE TYPE:

- [X] GRAB
- [ ] TIME COMPOSITE
- [ ] QC RINSATE
- [ ] OTHER (SPECIFY)
- [ ] SPATIAL COMPOSITE
- [ ] QC TRIP BLANK
- [ ] QC FIELD BLANK

FIELD OBSERVATIONS: Collected in sample trailer using ASTM Type II Water while packaging W03001.

SAMPLE COLLECTED: [X] YES [ ] NO

SAP SAMPLING PROCEDURE WAS FOLLOWED: [X] YES [ ] NO FIELD CHANGE ORDER REFERENCE NO: NA

IF SAP WAS NOT FOLLOWED, SPECIFY WHAT DEVIATIONS WERE NECESSARY AND WHY (INCLUDE FIELD CHANGE ORDER REFERENCE NO.):

RECORDED BY: Joletta Humpert (SIGNATURE)

QA CHECKED BY Laura M. Morrison 8/17/94 (SIGNATURE)

RECORDED BY: Joletta Humpert (SIGNATURE)

QA CHECKED BY Laura M. Morrison 8/17/94 (SIGNATURE)

SAMPLE LOG SHEET

SAMPLE ID NUMBER: BBØØØ2

Pg. 153

OPS

CONTAINER VOLUME (ml)	CONTAINER TYPE	METHOD NAME AND NUMBER ANALYSIS	PRESERVATIVES (TYPE/VOL)	C-O-C #	AIR BILL #	CONTAINER LOT #	LABORATORY
2-4Ø	Glass	CLPVOA	HCL to pH < 2,4C	OACØØ5	8219960372	B3228Ø2Ø	COMPUC

SAMPLE ID'S RINSATE: NA TRIP BLANK: TBAØØ5 FIELD BLANK: NA FIELD DUPLICATE: NA

RECORDED BY: Joletta Humpert (SIGNATURE) CHECKED BY: Laura M. Morrison 8/17/94 (SIGNATURE)

Sample Book [illegible] Blanks Transcribes

SAMPLE LOG SHEET

pg 154

QPS

PROJECT NAME: Mound Operational Area

PROJECT NO: 2680

SAMPLE ID NUMBER: BBØØØ3

DATE COLLECTED (MM/DD/YY): 6/28/94

TIME (HH:MM): 1730

SAMPLING -

LOCATION CODE: MNDOA

DESCRIPTION: NA

POINT CODE: BB

DESCRIPTION: NA

SAMPLE -

MEDIA CODE: 72

DESCRIPTION: ASTM WATER

DEPTH NA TO NA NA

SAMPLE TYPE:

- [X] GRAB
- [ ] TIME COMPOSITE
- [ ] QC RINSATE
- [ ] OTHER (SPECIFY)
- [ ] SPATIAL COMPOSITE
- [ ] QC TRIP BLANK
- [ ] QC FIELD BLANK

FIELD OBSERVATIONS:

Collected in sample trailer using ASTM Type II water while packaging BØ7ØØ1.

SAMPLE COLLECTED: [X] YES [ ] NO

SAP SAMPLING PROCEDURE WAS FOLLOWED: [X] YES [ ] NO

FIELD CHANGE ORDER REFERENCE NO: NA

IF SAP WAS NOT FOLLOWED, SPECIFY WHAT DEVIATIONS WERE NECESSARY AND WHY (INCLUDE FIELD CHANGE ORDER REFERENCE NO.):

RECORDED BY: Joletta Humpert (SIGNATURE)

QA CHECKED BY: Laura M. Morrison 8/17/94 (SIGNATURE)

SAMPLE LOG SHEET

SAMPLE ID NUMBER: BBØØØ3 Pg 155 OPS

CONTAINER VOLUME (ml)	CONTAINER TYPE	METHOD NAME AND NUMBER ANALYSIS	PRESERVATIVES (TYPE/VOL)	C-O-C #	AIR BILL #	CONTAINER LOT #	LABORATORY
2-4Ø	Glass	CLPVOA	HCL to pH < 2,4C	OACØØ6	8219960486	B3228Ø2Ø	COMPUC

SAMPLE ID'S RINSATE: NA TRIP BLANK: TBAØØ6 FIELD BLANK: NA FIELD DUPLICATE: NA

RECORDED BY: Joletta Humpert (SIGNATURE) QA CHECKED BY: Laura M. Morrison 8/17/94 (SIGNATURE)

Sample Book [illegible] \KMSOLES

SAMPLE LOG SHEET OPS

PROJECT NAME: Mound Operational Area pg 156 **PROJECT NO:** 2880

SAMPLE ID NUMBER: BB0004 DATE COLLECTED (MM/DD/YY): 7-7-94 TIME (HH:MM): 1700

SAMPLING -

LOCATION CODE: MNDOA

DESCRIPTION: NA

POINT CODE: BB

DESCRIPTION: NA

SAMPLE -

MEDIA CODE: 72

DESCRIPTION: ASTM WATER

DEPTH NA TO NA NA

SAMPLE TYPE:

- [X] GRAB
- [ ] TIME COMPOSITE
- [ ] QC RINSATE
- [ ] OTHER (SPECIFY)
- [ ] SPATIAL COMPOSITE
- [ ] QC TRIP BLANK
- [ ] QC FIELD BLANK

FIELD OBSERVATIONS:

Collected in sample trailer while packaging seep sample SB1001, using ASTM Type II Water. Two 40-ml vials collected

SAMPLE COLLECTED: [X] YES [ ] NO

SAP SAMPLING PROCEDURE WAS FOLLOWED: [X] YES [ ] NO FIELD CHANGE ORDER REFERENCE NO: NA

IF SAP WAS NOT FOLLOWED, SPECIFY WHAT DEVIATIONS WERE NECESSARY AND WHY (INCLUDE FIELD CHANGE ORDER REFERENCE NO.):

RECORDED BY: Joletta Humpert (SIGNATURE) QA CHECKED BY: Laura M. Morrison 8/17/94 (SIGNATURE)

SAMPLE LOG SHEET

SAMPLE ID NUMBER: BBØØØ4 pg 157 OFS

CONTAINER VOLUME (ml)	CONTAINER TYPE	METHOD NAME AND NUMBER ANALYSIS	PRESERVATIVES (TYPE/VOL)	C-O-C #	AIR BILL #	CONTAINER LOT #	LABORATORY
2-4Ø	Glass	CLPVOA	HCL to pH < 2,4C	OACØ11	821996Ø151	~~B322ØØ2Ø~~ ~~OACØ11~~ JPH 7/7/99	COMPUC

SAMPLE ID'S RINSATE: NA TRIP BLANK: TBAØ11 FIELD BLANK: NA FIELD DUPLICATE: NA

RECORDED BY: J Humpert (SIGNATURE) QA CHECKED BY: Laura M. Morrison 8/17/99 (SIGNATURE)

Sample Book [illegible] \KMSOLES

SAMPLE LOG SHEET

OPS

PROJECT NAME: Mound Operational Area

pg 158

PROJECT NO: 2680

SAMPLE ID NUMBER: BBØØØ5 DATE COLLECTED (MM/DD/YY): 7-19-94 TIME (HH:MM): 1030

SAMPLING -

LOCATION CODE: MNDOA

DESCRIPTION: NA

POINT CODE: BB

DESCRIPTION: NA

SAMPLE -

MEDIA CODE: 72

DESCRIPTION: ASTM WATER

DEPTH NA TO NA NA

SAMPLE TYPE:

- [X] GRAB
- [ ] TIME COMPOSITE
- [ ] QC RINSATE
- [ ] OTHER (SPECIFY)
- [ ] SPATIAL COMPOSITE
- [ ] QC TRIP BLANK
- [ ] QC FIELD BLANK

FIELD OBSERVATIONS: Collected in sample trailer while packaging BØ9ØØ1 using ASTM Type II water.

SAMPLE COLLECTED: [X] YES [ ] NO

SAP SAMPLING PROCEDURE WAS FOLLOWED: [X] YES [ ] NO FIELD CHANGE ORDER REFERENCE NO: NA

IF SAP WAS NOT FOLLOWED, SPECIFY WHAT DEVIATIONS WERE NECESSARY AND WHY (INCLUDE FIELD CHANGE ORDER REFERENCE NO.):

RECORDED BY: Joletta Humpert (SIGNATURE)

QA CHECKED BY: Laura M. Morrison 8/17/94 (SIGNATURE)

(SIGNATURE)

SAMPLE LOG SHEET

SAMPLE ID NUMBER: BBØØØ5 pg 159 OPS

CONTAINER VOLUME (ml)	CONTAINER TYPE	METHOD NAME AND NUMBER ANALYSIS	PRESERVATIVES (TYPE/VOL)	C-O-C #	AIR BILL #	CONTAINER LOT #	LABORATORY
2-4Ø	Glass	CLPVOA	HCL to pH < 2,4C	OACØ15	821996Ø556	B322BØ2Ø	COMPUC

SAMPLE ID'S RINSATE: NA TRIP BLANK: TBAØ15 FIELD BLANK: NA FIELD DUPLICATE: NA

RECORDED BY: Jeletta Humpert (SIGNATURE) QC CHECKED BY: Laura M. Morrison 8/17/91 (SIGNATURE)

Sample Box [illegible] RINSATES

SAMPLE LOG SHEET OPS

PROJECT NAME: Mound Operational Area pg. 160 **PROJECT NO:** 2680

SAMPLE ID NUMBER: BB0006 DATE COLLECTED (MM/DD/YY): 7/27/94 TIME (HH:MM): 1330

SAMPLING -

LOCATION CODE: MNDOA

DESCRIPTION: NA

POINT CODE: BB

DESCRIPTION: NA

SAMPLE -

MEDIA CODE: 72

DESCRIPTION: ASTM WATER

DEPTH NA TO NA NA

SAMPLE TYPE:

- [X] GRAB
- [ ] TIME COMPOSITE
- [ ] QC RINSATE
- [ ] OTHER (SPECIFY)
- [ ] SPATIAL COMPOSITE
- [ ] QC TRIP BLANK
- [ ] QC FIELD BLANK

FIELD OBSERVATIONS: Collected in sample trailer using ASTM Type II water while packaging B15.

SAMPLE COLLECTED: [X] YES [ ] NO

SAP SAMPLING PROCEDURE WAS FOLLOWED: [X] YES [ ] NO FIELD CHANGE ORDER REFERENCE NO: NA

IF SAP WAS NOT FOLLOWED, SPECIFY WHAT DEVIATIONS WERE NECESSARY AND WHY (INCLUDE FIELD CHANGE ORDER REFERENCE NO.):

RECORDED BY: Joletta Humpert (SIGNATURE) QA CHECKED BY: Laura M. Morrison 8/17/94 (SIGNATURE)

SAMPLE LOG SHEET

SAMPLE ID NUMBER: BBØØØ6 pg. 161 OPS

CONTAINER VOLUME (ml)	CONTAINER TYPE	METHOD NAME AND NUMBER ANALYSIS	PRESERVATIVES (TYPE/VOL)	C-O-C #	AIR BILL #	CONTAINER LOT #	LABORATORY
2-4Ø	Glass	CLPVOA	HCL to pH < 2,4C	OACØ21	8219959926	B3228Ø2Ø	COMPUC

SAMPLE ID'S RINSATE: NA TRIP BLANK: TBAØ21 FIELD BLANK: NA FIELD DUPLICATE: NA

RECORDED BY: Joletta Humpert (SIGNATURE) QA CHECKED BY: Laura M. Morrison 8/17/94 (SIGNATURE)

SAMPLE ID / COC TRACKINGFORM
OPS AREA PHASE 1 PG 187
PROJECT NAME: EG&G MOUND OU5 ~~NEW PROPERTY - EXTENDED PHASE~~ PROJECT NO: 34896

SAMPLE ID	MOUND SAMPLE ID	~~MOUND LAB COC~~ FIELD	LAB COC
ABØØØ1	NR	NA	OACØØ1
BØ1ØØ1		FAØØ1	
BØ1ØØ2			
BØ1ØØ3			
BØ1ØØ4			
BØ1ØØ5			
BØ1ØØ6			
BØ1ØØ7		FAØØ2	OACØØ2
BØ2ØØ1		FAØØ3	OACØØ2
BØ2ØØ2			OACØØ2
BØ4ØØ1		FAØØ4	OACØØ3
BØ4ØØ2			OACØØ3
BBØØØ1		NA	OACØØ1
ERØØØ1		NA	ØACØØ1
TBAØØ1		NA	OACØØ1
TBAØØ2		NA	OACØØ2
ERØØØ2		NA	ØACØØ2
TBAØØ3		NA	OACØØ3
BØ41Ø2		FAØØ4	OACØØ3
BØ5ØØ1		FAØØ5	
BØ5ØØ2			
BØ3ØØ1		FAØØ6	OACØØ4
BØ3ØØ2			
TBAØØ4		NA	
BØ3ØØ3		FAØØ6	

SAMPLE ID / COC TRACKINGFORM OPS AREA PHASE I Pg 188

PROJECT NAME: EG&G MOUND OU5 ~~NEW PROPERTY, EXTENDED PHASE~~ PROJECT NO: 34896

SAMPLE ID	MOUND SAMPLE ID	MOUND LAB COC	LAB COC
BØ3ØØ4	NR	FAØØ6, FAØØ7	~~OACØØ5~~ OACØØ4
ABØØØ2		NA	OACØØ5
BBØØØ2			
TBAØØ5			
BØ3ØØ5		FAØØ7	
WØ3ØØ1			
BØ3ØØ6			
BØ7ØØ1		FAØØ8	ØACØØ6
BØ71Ø1			
BØ7ØØ2			
BØ3ØØ7		~~FAØ~~ JPH 6/29/94	
ERØØØ3			
TBAØØ6		NA	
ABØØØ3			
BBØØØ3			
B16ØØ1		FAØØ9	OACØØ7
B16ØØ2			
B16ØØ3			
ERØØØ4		NA	OACØØ7
BØ7ØØ4		FAØØ9	
TBAØØ7		NA	
B16ØØ4		FAØ1Ø	OACØØ8
B16ØØ5			
W16ØØ1			
ERØØØ5		NA	

SAMPLE ID / COC TRACKINGFORM
OPS AREA PHASE 1 Pg 189
PROJECT NAME: EG&G MOUND OU5; ~~NEW PROPERTY, EXTENDED PHASE~~ PROJECT NO: 34896

SAMPLE ID	MOUND SAMPLE ID	MOUND LAB COC	LAB COC
~~TBAØ1Ø~~ TBAØØ8 9/30/94	NR	NA	OACØØ8
B13ØØ1		FAØ11	OACØØ9
B13ØØ2			
B13ØØ3			
B13ØØ4			
B13ØØ5			
B13ØØ6			
TBAØØ9		NA	OACØØ9
ERØØØ6		NA	OACØ1Ø
W13ØØ1		FAØ12	
W13ØØ1 (dup)		FAØ12	
TBAØ11		NA	OACØ11
BBØØØ4			OACØ11
ABØØØ4			
B14ØØ1		FAØ13	
B14ØØ2			
B14ØØ3			
SØ1ØØ1		FAØ14	
SØ11Ø1			
B14ØØ4		FAØ15	OACØ12
B141Ø4			
TBAØ12		NA	
SØ2ØØ1		FAØ16	OACØ13
TBNØ13		NA	
TBAØ14		NA	OACØ14

SAMPLE ID / COC TRACKINGFORM
OPS AREA PHASE I
PG 190
PROJECT NAME: EG&G MOUND OU5, ~~NEW PROPERTY, EXTENDED PHASE~~
PROJECT NO: 34896

SAMPLE ID	MOUND SAMPLE ID	MOUND LAB COC	LAB COC
BØ8ØØ1	NR	FAØ17	OACØ14
BØ8ØØ2	↓	↓	↓
BØ8ØØ3	↓	↓	↓
BBØØØ5	↓	NA	OACØ15
ABØØØ5	↓	↓	↓
BØ9ØØ1	↓	FAØ18	OACØ15
BØ9ØØ2	↓	↓	↓
BØ91Ø2	↓	↓	↓
BØ9ØØ3	↓	↓	↓
BØ9ØØ4	↓	↓	↓
BØ9ØØ5	↓	↓	↓
B12ØØ1	↓	FAØ19	OACØ16
B12ØØ2	↓	↓	↓
B12ØØ3	↓	↓	↓
B1ØØØ1	↓	FAØ2Ø	OACØ16
B1ØØØ2	↓	↓	↓
B1ØØØ3	↓	↓	↓
BØ6ØØ1	↓	FAØ21	OACØ18
BØ6ØØ2	↓	↓	↓
BØ6ØØ3	↓	↓	↓
B11ØØ1	↓	FAØ22	OACØ17
B11ØØ2	↓	↓	↓
B111Ø2	↓	↓	↓
B11ØØ3	↓	↓	↓
B11ØØ4	↓	↓	↓

SAMPLE ID / COC TRACKINGFORM
OPS AREA PHASE 1

Pg 191

PROJECT NAME: EG&G MOUND OU5, ~~NEW PROPERTY, EXTENDED PHASE~~

PROJECT NO: 34896

SAMPLE ID	MOUND SAMPLE ID	MOUND LAB COC	LAB COC
B16ØØ6	NR	FAØ23	OACØ19
B16ØØ7			
B161Ø7			
ERØØ1Ø		NA	OACØ2Ø
B15ØØ1		FAØ24	OACØ21
B151Ø1			
8/8/94 ~~B16~~ B15ØØ2			
B15ØØ3			
B15ØØ4			
B151Ø4			
ABØØØ6		NA	
BBØØØ6		NA	
B17ØØ1		FAØ25	OACØ22
B17ØØ2			
B18ØØ1			
B18ØØ2			
B19ØØ1		FAØ26	DACØ23
B19ØØ2			
B2ØØØ1			
B2ØØØ2			
BB1ØØ1		NA	OACØ25
BB2ØØ1			
BB21Ø1			
BB3ØØ1			
BB4ØØ1			

SAMPLE ID / COC TRACKING FORM

OPS AREA PHASE I

PG 192

PROJECT NAME: EG&G MOUND OU5 ~~NEW PROPERTY EXTENDED PHASE~~ PROJECT NO: 348967

SAMPLE ID	MOUND SAMPLE ID	MOUND LAB COC	LAB COC
BB5ØØ1	NR	NA	GACØ25
BB6ØØ1	↓	↓	↓
BB7ØØ1	↓	↓	↓
	LAST ENTRY		

SAMPLE CONTAINER LOT NUMBER LOG
OPS AREA PHASE I
PG 207

PROJECT NAME: EG&G MOUND OU5, ~~NEW PROPERTY, EXTENDED PHASE~~ PROJECT NO: 34896

SAMPLE ID	MATRIX	ANALYSIS	LOT NUMBER	DATE USED
BØ1ØØ2	SOIL	Anions	F3146Ø5Ø	6/2Ø/94
		Metals /Cyn	↓	
		Lanthanides	G2342Ø5Ø	
		VOC	↓	
		Explosives	F3146Ø5Ø	
		TOC	G2342Ø5Ø	
		Gamma	F3146Ø5Ø	
		Iso PTU	F3146Ø5Ø	
		SVOC /Pest/PCB	↓	
BØ1ØØ1	SOIL	Anions	F3146Ø5Ø	6/2Ø/94
		VOC	G2342Ø5Ø	
		Lanthanides	↓	
		TOC		
		Gamma	F3146Ø5Ø	
		Metal/Cyn		
		Explosives		
		Iso PTU		
		~~Lantha~~ SVOC/ Pest/PCB		
BØ1ØØ3	SOIL	TOC	G2342Ø50	6/20/94
		VOC		
		Lanthanides	↓	
		Exp	F3146Ø5Ø	
		Anions		
		Metal/Cyn		
		~~Rads Gamma~~		
		Rads PTU		
		SVOC /Pest/PCB		
BØ1ØØ4	SOIL	VOC	G2342Ø5Ø	6/20/94
		TOC		

SAMPLE CONTAINER LOT NUMBER LOG

ODS AREA PHASE I

PG 208

PROJECT NAME: EG&G MOUND OU5, ~~NEW PROPERTY, EXTENDED PHASE~~

PROJECT NO: 34896

SAMPLE ID	MATRIX	ANALYSIS	LOT NUMBER	DATE USED
B01004	SOIL	Lanthanides	G2342050	6/20/94
		Anions	F3146050	
		Exp		
		Metal/Cyn		
		Gamma		
		SVOC/Pest/PCB		
		Iso PTU		
B01006	SOIL	VOA	G2342050	6/20/94
		Lanthanides		
		TOC		
		SVOC/Pest/PCB	F3146050	
		Iso/PTU		
		Metals/Cyn		
		Anions		
		Exp		
		Gamma		
B01005	SOIL	VOA	G2342050	6/20/94
		Lanthanides		
		TOC		
		SVOC/Pest/PCB	F3146050	
		Iso PTU		
		Metals/Cyn		
		Anions		
		Exp		
		Gamma		
B01007	SOIL	Gamma	F3146050	6/21/94
		Iso PTU		
		SVOC/Pest/PCB		
		Metal/Cyn		

SAMPLE CONTAINER LOT NUMBER LOG

PROJECT NAME: EG&G MOUND OU5, ~~NEW PROPERTY, EXTENDED PHASE~~ OPS AREA PHASE I

PROJECT NO: 34896

SAMPLE ID	MATRIX	ANALYSIS	LOT NUMBER	DATE USED
BØ1ØØ7	SOIL	Anions	F3146Ø50	6/21/94
		Exp		
		VOC	G2342Ø5Ø	
		TOC		
		Lanthanides		
BØ2ØØ1	SOIL	VOC	G2342Ø5Ø	6/21/94
		TOC		
		Lanthan		
		Anions	F3146Ø5Ø	
		Gamma		
		Metals/Cyn		
		Exp		
		Iso PTU		
		SVOC/Pest/PCB		
BØ2ØØ2	SOIL	VOC	G2342Ø5Ø	6/21/94
		TOC		
		Lan		
		Gamma	F3146Ø50	
		Exp		
		Iso PTU		
		Metal/Cyn		
		Anion		
		SVOC/Pest/PCB		
BØ4ØØ1	SOIL	VOC	G2342Ø5Ø	6/22/94
		TOC		
		Lanthanides		
		Anions	F3146Ø5Ø	
		Iso PTU		
		Gamma		

SAMPLE CONTAINER LOT NUMBER LOG
OPS AREA PHASE I
PG 210

PROJECT NAME: EG&G MOUND OU5, ~~NEW PROPERTY, EXTENDED PHASE~~ PROJECT NO: 34896

SAMPLE ID	MATRIX	ANALYSIS	LOT NUMBER	DATE USED
B04001	SOIL	SVOC/Pest/PCB	F3146050	6/22/94
		Explosives		
		Metals/Cyn		
B04002	SOIL	VOC	G2342050	6/22/94
B04002	SOIL	TOC		
		Lanthanides		
		Gamma	F3146050	
		Anions		
		Iso PTU		
		Exp		
		SVOC/Pest/PCB		
		Met/Cyn		
B04102	SOIL	TOC	G2342050	6/22/94
		VOC		
		Lanthanides		
		Gamma	F3146050	
		Anions		
		Iso PTU		
		Exp		
		SVOC/Pest/PCB		
		Metal/Cyn		
B03001	SOIL	TOC	G2342050	6/23/94
		VOC		
		Lanthanides		
		Anions	F3146050	
		SVOC/Pest/PCB		
		Gamma		
		Metal/Cyn		
		Iso PTU		

SAMPLE CONTAINER LOT NUMBER LOG
OP AREA PHASE I

PC 211

PROJECT NAME: EG&G MOUND OU5, ~~NEW PROPERTY, EXTENDED PHASE~~

PROJECT NO: 34896

SAMPLE ID	MATRIX	ANALYSIS	LOT NUMBER	DATE USED
BØ3ØØ1	SOIL	Exp	F3146Ø5Ø	6/23/94
BØ3ØØ2	SOIL	TOC	G2342Ø5Ø	6/23/94
		VOC		
		Lanthanides		
		Anions	F3146Ø5Ø	
		Gamma		
		Exp		
		Metal/cyn		
		SVOC/Pest/PCB		
BØ3ØØ3	SOIL	TOC	G2342Ø5Ø	6/23/94
		VOC		
		Lanthan		
		Anion	F3146Ø5Ø	
		Gamma		
		Exp		
		Metal/cyn		
		SVOC/Pest/PCB		
BØ3ØØ4	SOIL	TOC	G2342Ø50	6/23/94
		VOC		
		Lant		
		SVOC/Pest	F3146Ø50	
		Metal/Cyn		
WØ3ØØ1	WTR	Alkalinity	C3231Ø2Ø	6/27/94
WØ3ØØ1		Anions	C4Ø7ØØ1Ø	
		Pest/PCB	H3182Ø1Ø	
		SVOC		
		VOA	B3228Ø2Ø	
		VOA - 8010		
		Explosives	H3182Ø1Ø	

SAMPLE CONTAINER LOT NUMBER LOG
OPS AREA PHASE I
PG 212
PROJECT NAME: EG&G MOUND OU5, ~~NEW PROPERTY, EXTENDED PHASE~~
PROJECT NO: 34896

SAMPLE ID	MATRIX	ANALYSIS	LOT NUMBER	DATE USED
W0300 1	WTR	Cyanide	C407001	6/27/94
		NO_2/NO_3		
		Metals		
		Iso PTU	C407001	
		Gamma		
		TDS	C3231020	
		TKN, TP	C407001	
		TSS	C407001	
		Lanthanides	C3231020	
B0300 4	SOIL	Anion	~~Gamma~~ F3146050	6/27/94
		Exp		
		Gamma		
		Iso PTU		
B0300 5	SOIL	Gamma	F3146050	6/27/94
		Anions		
		Metal/cyn		
		Exp		
		Iso PTU		
		SVOC/Pest		
		VOC	G2342050	
		TOC		
		Lanthanides		
B0300 6	SOIL	VOC	G2342050	6/27/94
B0300 7	SOIL	VOC	G2342050	
B0700 1	SOIL	VOC	G2342050	6/28/94
		TOC		
		Lanthanides		
		SVOC/Pest	F3146050	
		Metal/cyn		

SAMPLE CONTAINER LOT NUMBER LOG

OPS AREA PHASE I

PG 213

PROJECT NAME: EG&G MOUND OU5 ~~NEW PROPERTY EXTENDED PHASE~~

PROJECT NO: 34896

SAMPLE ID	MATRIX	ANALYSIS	LOT NUMBER	DATE USED
B07001	SOIL	Anion	F3146050	6/28/94
		Gamma		
		Iso PTU		
		Exp		
B07002	SOIL	VOC	G2342050	6/28/94
		TOC		
		Lan		
		Anion	F3146050	
		SVOC/Pest		
		Gamma		
		Iso PTU		
		Exp		
B07101	SOIL	VOC	G2342050	6/28/94
		TOC		
		Lanthanides		
		SVOC/Pest	F3146050	
		Metal/cyn		
		anions		
		Exp		
		Gamma		
		Iso PTU		
B07003	SOIL	VOC	G2342050	6/29/94
		TOC		
		Lan		
		Anions	F3146050	
		SVOC/Pest		
		Metal/cyn		
		Exp		
		Gamma/Iso PTU		

SAMPLE CONTAINER LOT NUMBER LOG
OPS AREA - PHASE I

PG 214

PROJECT NAME: EG&G MOUND OU5, ~~NEW PROPERTY, EXTENDED PHASE~~

PROJECT NO: 34896

SAMPLE ID	MATRIX	ANALYSIS	LOT NUMBER	DATE USED
B07004	SOIL	VOC	G2342050	6/29/94
		TOC		
		Lanthanides		
		Anions	F3146050	
		Gamma		
		Iso PTU		
		Exp		
		SVOC/Pest/PCB		
		Metal/Cyn		
B16001	SOIL	Gamma	F3146050	6/29/94
		Iso PTU		
B16002	SOIL	VOC	G2342050	
B16003	SOIL	Gamma	F3146050	
		Iso PTU		
B16004	SOIL	VOC	G2342050	6/29/94
		Gamma	F3146050	
		Iso PTU		
B16005	SOIL	VOC	G2342050	6/30/94
		Gamma	F3146050	
		Iso PTU		
B13003	SOIL	VOC	G2342050	7/5/94
		TOC		
		Lant.		
		SVOC/Pest	F3146050	
		Metal/Cyn		
		Anion		
		Gamma		
		Iso PTU		
		Exp		

SAMPLE CONTAINER LOT NUMBER LOG

GPR AREA PHASE I

PG 215

PROJECT NAME: EG&G MOUND OU5 NEW PROPERTY - EXTENDED PHASE

PROJECT NO: 34896

SAMPLE ID	MATRIX	ANALYSIS	LOT NUMBER	DATE USED
B13ØØ2	SOIL	VOC	G2342Ø5Ø	7/5/94
		TOC		
		Lanthanides		
		SVOC/Pest/PCB	F3146Ø5Ø	
		Metal/Cyn		
		Gamma		
		Iso PTU		
		anion		
		Exp		
B13ØØ1	SOIL	VOC	G2342Ø5Ø	7/5/94
		TOC		
		Lanthanides		
		SVOC/Pest/PCB	F3146Ø5Ø	
		Metal/Cyn		
		anion		
		Exp		
		Gamma		
		Iso PTU		
W13ØØ1	Wtr	VOCs	B3228Ø2Ø	7/6/94
		SVOC	H3182Ø1Ø	
		Pest/PCB		
		Explosives		
		Alkalinity	C4Ø7ØØ1Ø	
		Anions	C4Ø7ØØ1Ø	
		Tritium	H3182Ø1Ø	
		TSS	C4Ø7ØØ1Ø	
		TDS		
		TOC	H3182Ø1Ø	
		TKN/TP	C4Ø7ØØ1Ø	

SAMPLE CONTAINER LOT NUMBER LOG
OPS AREA PHASE I

PG 216

PROJECT NAME: EG&G MOUND OU5, ~~NEW PROPERTY, EXTENDED PHASE~~

PROJECT NO: 34896

SAMPLE ID	MATRIX	ANALYSIS	LOT NUMBER	DATE USED
W13ØØ1	wtr	NO_2/NO_3	C4Ø7ØØ1Ø	7/6/94
		Cyanide		
		Rad PTU		
		Gamma		
		Metals		
W131Ø1	wtr	VOC	B3228Ø2Ø	7/6/94
		SVOC	H3182Ø1Ø	
		Pest/PCB		
		Explosives		
		Metals	C4Ø7ØØ1Ø	
		Cyanide		
		Anions		
		NO_2/NO_3		
		TKN/TP		
		TOC	H3182Ø1Ø	
		TDS	C4Ø7ØØ1Ø	
		TSS		
		Tritium	H3182Ø1Ø	
		PTU	G4Ø7ØØ1Ø	
		Gamma		
		Lanthanides		
B14ØØ1	SOIL	VOC	G2342Ø5Ø	7/7/94
		TOC		
		Lanthanides		
		SVOC/Pest	F3146Ø5Ø	
		Gamma		
		Iso PTU		
		Metal/cyn		
		Anions		

SAMPLE CONTAINER LOT NUMBER LOG
OPS AREA PHASE I

Pg 217

PROJECT NAME: EG&G MOUND OU5, NEW PROPERTY, ~~EXTENDED PHASE~~

PROJECT NO: 34896

SAMPLE ID	MATRIX	ANALYSIS	LOT NUMBER	DATE USED
B14ØØ1	SOIL	Explosives	F3146Ø5Ø	7/7/94
B14ØØ2	SOIL	VOC	G2342Ø5Ø	~~7/7/94~~ 7/7/94
		TOC		
		Lanthanides		
		SVOC/Pest	F3146Ø5Ø	
		Metal/cyn		
		Anion		
		Gamma		
		Iso PTU		
		Exp		
B14ØØ3	SOIL	VOC	G2342Ø5Ø	7/7/94
B14ØØ4	SOIL	VOC, TOC, Lanth	G2342Ø5Ø	7/8/94
		SVOC/Pest, Anion,	F3146Ø5Ø	
		Metal/cyn, Gamma,		
		Iso PTU, Exp.		
SØ1ØØ1	Wtr	VOCs	B3228Ø2Ø	7/7/94
		All ambers	H3182Ø1Ø	
		All Poly	C4Ø7ØØ1Ø	
SØ11Ø1	Wtr	VOCs	B3228Ø2Ø	7/7/94
		All ambers	H3182Ø1Ø	
		All poly	C4Ø7ØØ1Ø	
SØ2ØØ1	Wtr	VOC	B3228Ø2Ø	7/11/94
		All Ambers	H3182Ø1Ø	
		All poly	C4Ø7ØØ1Ø	
BØ8ØØ1	SOIL	VOC	G2342Ø5Ø	7/14/94
		TOC		
		Lanthanides		
		SVOC/Pest	F3146Ø5Ø	
		Metal/Cyn		

SAMPLE CONTAINER LOT NUMBER LOG
OPS AREA PHASE 1

PG 218

PROJECT NAME: EG&G MOUND OU5, ~~NEW PROPERTY, EXTENDED PHASE~~

PROJECT NO: 34896

SAMPLE ID	MATRIX	ANALYSIS	LOT NUMBER	DATE USED
B08001	SOIL	Anion	F3146050	7/14/94
		Gamma		
		Iso PTU		
		Exp		
B08002	SOIL	VOC	G2342050	7/14/94
		TOC		
		Lanthanides		
		SVOC/Pest	F3146050	
		Metal/Cyn		
		Anion		
		Gamma		
		Iso PTU		
		Exp		
B08003	SOIL	VOC	G2342050	7/14/94
		TOC		
		Lanthanides		
		SVOC/Pest	F3146050	
		Metal/Cyn		
		Anion		
		Exp		
		Gamma		
		Iso PTU		
B09001	SOIL	VOC	G2342050	7/19/94
		TOC		
		Lanthanides		
		SVOC/Pest	F3146050	
		Metal/Cyn		
		Anions		
		Exp		

SAMPLE CONTAINER LOT NUMBER LOG

PO 219

PROJECT NAME: EG&G MOUND OU5, ~~NEW PROPERTY, EXTENDED PHASE~~ OPS AREA PHASE I

PROJECT NO: 34896

SAMPLE ID	MATRIX	ANALYSIS	LOT NUMBER	DATE USED
B0900I	SOIL	Gamma	F3146050	7/19/94
↓	↓	Iso PTU	↓	↓
B09002	SOIL	VOC	G2342050	7/19/94
		TOC		
		Lanthanides	↓	
		SVOC/Pest	F3146050	
		Metal/Cyn		
		Anion		
		Gamma		
		Iso PTU		
↓	↓	Exp	↓	↓
B09102	SOIL	VOC	G2342050	7/19/94
		TOC		
		Lanthanides	↓	
		SVOC/Pest	F3146050	
		Metal/Cyn		
		Anion		
		Exp		
		Gamma		
↓	↓	Iso PTU	↓	↓
B09003	SOIL	VOC; TOC; Lanth.	G2342050	7/19/94
		SVOC/Pest; Metal/Cyn;	F3146050	
		Gamma; Iso PTU;		
↓	↓	Exp, Anions	↓	↓
B09004	SOIL	VOC; TOC; Lanth	G2342050	7/19/94
		SVOC/Pest; Iso PTU;	F3146050	
		Metal/Cyn; Anion;		
↓	↓	Gamma; Exp	↓	↓

SAMPLE CONTAINER LOT NUMBER LOG
OPS AREA PITTER 1

PG 220

PROJECT NAME: EG&G MOUND OU5;NEW PROPERTY , EXTENDED PHASE

PROJECT NO: 34896

SAMPLE ID	MATRIX	ANALYSIS	LOT NUMBER	DATE USED
B0900 5	SOIL	VOC; TOC; Lant	G2342050	7/19/94
		SVOC/Pest; Anion;	F3146050	
		Gamma; Iso PTU;		
		Exp; Metal/Cyn		
B1200 1	SOIL	VOC; TOC; Lan	G2342050	7/20/94
		SVOC/Pest; Anions;	F3146050	
		Gamma; Iso PTU;		
		Exp; Metal/Cyn		
B1200 2	SOIL	VOC; LAN; TOC	G2342050	7/20/94
		SVOC/Pest; Anion;	F3146050	
		Gamma; Iso PTU;		
		Exp; Metal/Cyn		
B1200 3	SOIL	VOC; TOC; Lan	G2342050	7/20/94
		SVOC/Pest; Anion;	F3146050	
		Gamma; Iso PTU;		
		Exp; Metal/Cyn		
B0100 1	SOIL	VOC; TOC; Lant	G2342050	7/20/94
B0100 1		SVOC/Pest; Anion;	F3146050	
		Gamma; Iso PTU;		
		Exp; Metal/Cyn		
B0100 2	SOIL	VOC; TOC; Lant	G2342050	7/20/94
		SVOC/Pest; Anion;	F3146050	
		Gamma; Iso PTU;		
		Exp; Metal/Cyn		
B0100 3	SOIL	VOC; TOC; Lan	G2342050	7/20/94
		SVOC/Pest; Anion;		
		Gamma; Iso PTU;		
		Exp; Metal/Cyn		

SAMPLE CONTAINER LOT NUMBER LOG
OPS AREA PHASE I

PC-221

PROJECT NAME: EG&G MOUND OU5, ~~NEW PROPERTY, EXTENDED PHASE~~

PROJECT NO: 34896

SAMPLE ID	MATRIX	ANALYSIS	LOT NUMBER	DATE USED
B11ØØ1	SOIL	VOC; TOC; Lan	G2342Ø5Ø	7/21/94
		Gamma; IsoPTU;	F3146Ø5Ø	
		SVOC/Pest/Metal/Cy;		
		Anions; Exp		
B11ØØ2	SOIL	VOC; TOC; LAN	G2342Ø5Ø	7/21/94
		SVOC/Pest; Metal/Cy;	F3146Ø50	
		Anion; Exp;		
		Gamma; IsoPTU		
B11ØØ3	SOIL	VOC; TOC; Lan	G2342Ø5Ø	7/21/94
		SVOC/Pest; Anion;	F3146Ø5Ø	
		Gamma; IsoPTU;		
		Exp; Metal/Cyn		
B11ØØ4	SOIL	VOC; TOC; Lan	G2342Ø5Ø	7/21/94
		SVOC/Pest; Anion;	F3146Ø5Ø	
		Gamma; IsoPTU;		
		Exp; Metal/Cyn		
W11ØØ1	WTR	VOAs	B3228Ø2Ø	7/21/94
		all amber	H3182Ø1Ø	
		All Poly	C4Ø7ØØ1Ø	
BØ6ØØ1	SOIL	VOC; TOC; LAN	G2342Ø5Ø	7/22/94
		GAMMA; ISOPTU	F3146Ø5Ø	
		SVOC/Pest/Met/Cy	F3146Ø5Ø	
		ANIONS/EXPLOS	F3146Ø5Ø	
BØ6ØØ2	SOIL	VOC; TOC; LAN	G2342Ø5Ø	
		GAMMA; ISOPTU	F3146Ø5Ø	
		ANIONS; EXPLOS	F3146Ø5Ø	
		SVOC; PP; MET; CY	F3146Ø5Ø	
BØ6ØØ3	SOIL	VOC; TOC; Lan	G2342Ø5Ø	7/22/94
		SVOC; PP; Met; Cy	F3146Ø5Ø	

SAMPLE CONTAINER LOT NUMBER LOG
OPS AREA PHASE I

P6 222

PROJECT NAME: EG&G MOUND OU5, ~~NEW PROPERTY, EXTENDED PHASE~~

PROJECT NO. 348

SAMPLE ID	MATRIX	ANALYSIS	LOT NUMBER	DATE USED
B06003	SOIL	Anions; Exp;	F3146050	7/22/94
↓	↓	Iso PTU; Gamma	↓	↓
B16006	SOIL	Gamma; Iso PTU	F3146050	7/25/94
B16007	SOIL	VOA	G2342050	7/25/94
↓	↓	Gamma; Iso PTU	F3146050	↓
B16107	SOIL	Gamma; Iso PTU	F3146050	7/25/94
B15001	SOIL	VOC; TOC; Lan	G2342050	7/27/98
↓	↓	SVOC/Pest; Anion;	F3146050	↓
		Metal/Cyn; Iso PTU;		
↓	↓	Gamma; Exp	↓	↓
B15002	SOIL	VOC; TOC; Lan	G2342050	7/27/94
↓	↓	SVOC/Pest; Anion;	F3146050	↓
		Metal/Cyn; Gamma;		
↓	↓	Iso PTU; Exp	↓	↓
B15003	SOIL	VOC; TOC; Lan	G2342050	7/27/94
↓	↓	SVOC/Pest; Anions;	F3146050	↓
		Gamma; Iso PTU;		
↓	↓	Metal/Cyn; Exp	↓	↓
B15004	SOIL	VOC, TOC, Lan	G2342050	7/27/94
B15004	↓	SVOC/Pest; Anions;	F3146050	↓
↓		Gamma; Iso PTU;		
↓	↓	Metal/Cyn; Exp	↓	↓
B15104	SOIL	VOC; TOC; Lan	G2342050	7/27/94
↓	↓	SVOC/~~Metal~~ Pest SAY 8/8/94; Anion;	F3146050	↓
		Gamma; Iso PTU;		
↓	↓	Metal/Cyn; Exp	↓	↓
B17001	SOIL	VOC; TOC; Lan	G2342050	8/8/94
		SVOC/Pest; Anions;	F3146050	↓
		Gamma; Iso PTU	↓	↓

SAMPLE CONTAINER LOT NUMBER LOG

OPS AREA PHASE I

PG 223

PROJECT NAME: EG&G MOUND OU5, ~~NEW PROPERTY, EXTENDED PHASE~~ PROJECT NO: 34896

SAMPLE ID	MATRIX	ANALYSIS	LOT NUMBER	DATE USED
B17ØØ1	SOIL	Metal/Cyn; Exp	F3146Ø5Ø	8/8/94
B17ØØ2	SOIL	VOC; TOC; Lan	G2342Ø5Ø	8/8/94
↓	↓	SVOC/Pest; Anion;	F3146Ø5Ø	↓
		Gamma; IsoPTU;	↓	
↓	↓	Metal/Cyn; Exp	↓	↓
B18ØØ1	SOIL	VOC; TOC; Lan	G2342Ø5Ø	8/8/94
↓	↓	SVOC/Pest; Anion;	F3146Ø5Ø	↓
		Gamma; IsoPTU;	↓	
↓	↓	Metal/Cyn; Exp	↓	↓
B18ØØ2	SOIL	SVOC/Pest; Anion;	F3146Ø5Ø	8/8/94
↓	↓	Gamma; IsoPTU;	↓	↓
		Metal/Cyn; Exp	↓	
↓	↓	VOC; TOC; Lan	G2342Ø5Ø	↓
B181Ø2	SOIL	VOC	G2342Ø5Ø	8/8/94
↓	↓	Gamma; IsoPTU	F3146Ø5Ø	↓
B19ØØ1	SOIL	VOC; TOC; Lan	G2342Ø5Ø	8/9/94
↓	↓	SVOC/Pest; Anion;	F3146Ø5Ø	↓
		Metal/Cyn; Exp	↓	
↓	↓	Gamma; IsoPTU	↓	↓
B19ØØ2	SOIL	VOC; TOC; Lan	~~F314~~ G2342Ø5Ø	8/9/94
↓	↓	SVOC/Pest; Anion;	F3146Ø5Ø	↓
		Gamma; IsoPTU;	↓	
↓	↓	Metal/Cyn; Exp	↓	↓
B2ØØØ1	SOIL	VOC; TOC; Lan	G2342Ø5Ø	8/9/94
↓	↓	Gamma; IsoPTU;	F3146Ø5Ø	↓
		Exp; Metal/Cyn;	↓	
↓	↓	SVOC/Pest; Anion	↓	↓
BB1ØØ1	SOIL	metals	F3146Ø5Ø	9/14/94
BB2ØØ1	↓	explosives	↓	↓

SAMPLE CONTAINER LOT NUMBER LOG

OPS AREA PHASE I

PG 224

PROJECT NAME: EG&G MOUND OU5, NEW PROPERTY, ~~EXTENDED PHASE~~

PROJECT NO: 34896

SAMPLE ID	MATRIX	ANALYSIS	LOT NUMBER	DATE USED
B2ØØØ2	SOIL	VOC; TOC; Lan	G2342Ø5Ø	8/9/94
		SVOC/Pest; Exp;	F3146Ø5Ø	
		Anion; Metal/Cyn;		
		Gamma; IsoPTU		
BB21Ø1	Soil	explosives	F3146Ø5Ø	9/14/94
BB3ØØ1				
BB4Ø1				
BB5ØØ1				
BB6ØØ1				
BB7ØØ1				
		LAST ENTRY		

TRIP BLANK TRACKING FORM

OPS AREA PHASE 1

PROJECT NAME: EG&G MOUND OU5, ~~NEW PROPERTY, EXTENDED PHASE~~ PROJECT NO: 34896

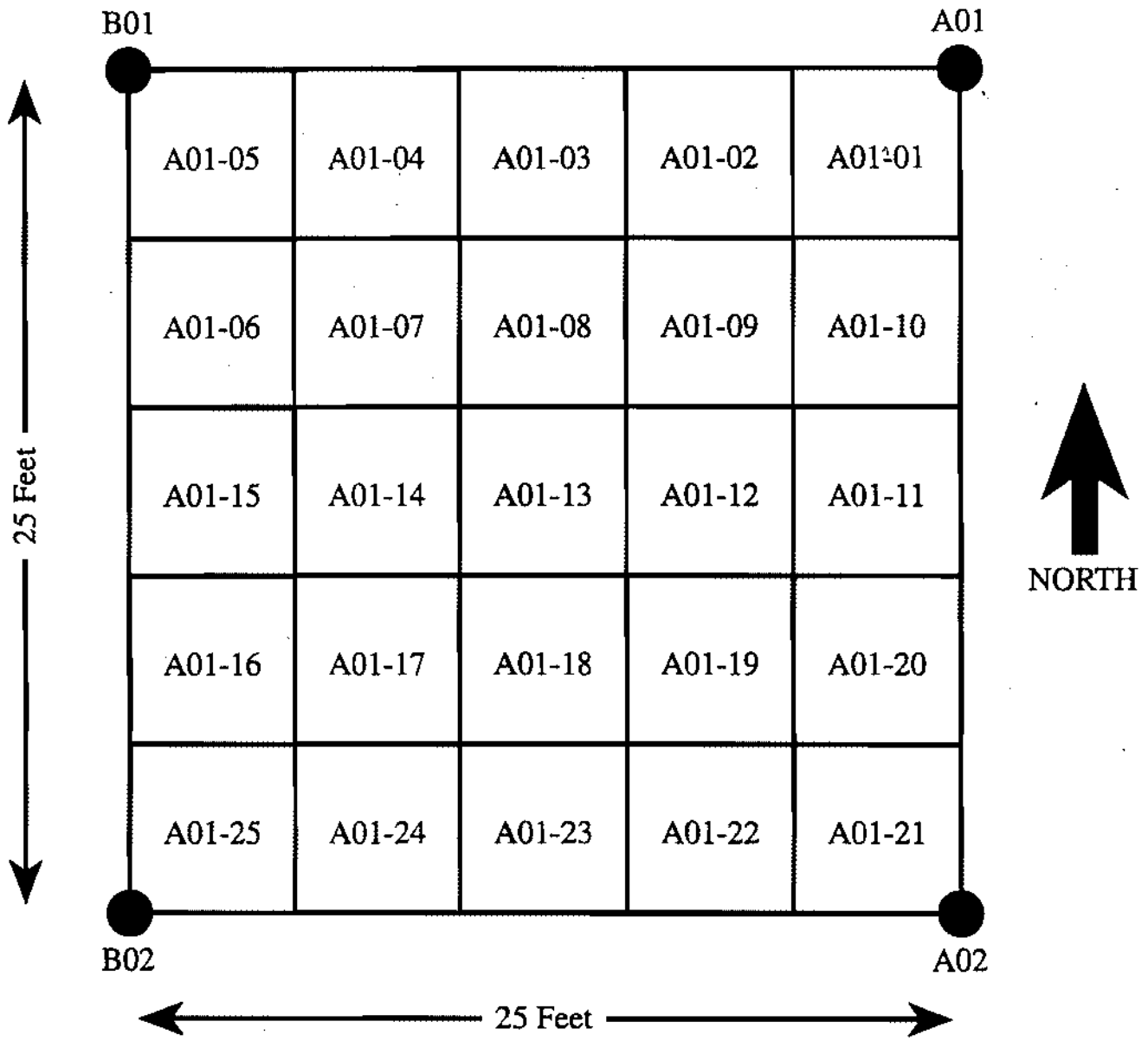
SAMPLE ID	DATE SHIPPED	SAMPLE ID	DATE SHIPPED
TBAØØ1	6/2Ø/94	NO ENTRY	—
TBAØØ2	6/21/94		
TBAØØ3	6/22/94		
TBAØØ4	6/23/94		
TBAØØ5	6/27/94		
TBAØØ6	6/28/94		
TBAØØ7	6/29/94		
TBAØØ8	6/3Ø/94		
TBAØØ9	7/5/94		
TBAØ1Ø	7/6/94		
TBAØ11	7/7/94		
TBAØ12	7/8/94		
TBAØ13	7/11/94		
TBAØ14	7/14/94		
TBAØ15	~~7/15/94~~ 7/19/94		
TBAØ16	7/20/94		
TBAØ17	7/21/94		
TBAØ18	7/22/94		
TBAØ19	7/25/94		
TBAØ2Ø	7/26/94		
TBAØ21	7/27/94		
TBAØ22	8/8/94		
TBAØ23	8/9/94		
~~TBAØ24~~	~~8/10/94~~ 9/15/94		
TBAØ24 used to ship W3991 samples			

PLATE 1: Mound Plant OU5 Phase 1 RI/FS Operational Area, Locations of Areas of Concern

APPENDIX B
SURVEY MAPS

PLATE 1:	Survey Map of Located Grid Points Ohio State Plane Coordinate System (1927)
PLATE 2:	Survey Map of Located Grid Points Mound Plant Coordinate System

APPENDIX C
RADIOLOGICAL DATA
(FIDLER SURVEY & SOIL SCREENING FACILITY DATA)



Operable Unit 5, Operational Area, Phase 1 Investigation - Generic Sampling Identification Scheme for the FIDLER survey conducted in Area 7

APPENDIX C

RADIOLOGICAL DATA (FIDLER SURVEY & MOUND SOIL SCREENING FACILITY) FOR AREA 7

	FIDLER SURVEY DATA						MOUND SOIL SCREENING FACILITY DATA			
SMPID	Contamination Criteria CH1	FIDLER Readings CH1	Contamination Criteria CH2	FIDLER Readings CH2	Contamination Criteria Out Channel	FIDLER Readings Out Channel	Plutonium - 238		Thorium - 232	
	Units: CPM	Units: CPM	Units: KCPM	Units: KCPM	Units: KCPM	Units: KCPM	Units: pCi/g		Units: pCi/g	
	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	Note:	RESULTS	Note:
7A01	NA	NA	NA	NA	NA	NR	WIPE	b	WIPE	b
7A01-01	178.1	NA	11.70	NA	13.0	4.0	NC		NC	
7A01-02	178.1	NA	11.70	NA	13.0	3.5	NC		NC	
7A01-03	178.1	NA	11.70	NA	13.0	4.0	NC		NC	
7A01-04	178.1	NA	11.70	NA	13.0	4.0	NC		NC	
7A01-05	178.1	NA	11.70	NA	13.0	3.5	NC		NC	
7A01-06	178.1	NA	11.70	NA	13.0	4.0	NC		NC	
7A01-07	178.1	NA	11.70	NA	13.0	4.0	NC		NC	
7A01-08	178.1	NA	11.70	NA	13.0	4.0	NC		NC	
7A01-09	178.1	NA	11.70	NA	13.0	3.5	NC		NC	
7A01-10	178.1	NA	11.70	NA	13.0	4.0	NC		NC	
7A01-11	178.1	NA	11.70	NA	13.0	4.0	NC		NC	
7A01-12	178.1	NA	11.70	NA	13.0	4.0	NC		NC	
7A01-13	178.1	NA	11.70	NA	13.0	4.0	NC		NC	
7A01-14	178.1	NA	11.70	NA	13.0	4.0	NC		NC	
7A01-15	178.1	NA	11.70	NA	13.0	4.0	NC		NC	
7A01-16	178.1	NA	11.70	NA	13.0	4.0	NC		NC	
7A01-17	178.1	NA	11.70	NA	13.0	3.5	NC		NC	
7A01-18	178.1	NA	11.70	NA	13.0	4.0	NC		NC	
7A01-19	178.1	NA	11.70	NA	13.0	4.0	NC		NC	
7A01-20	178.1	NA	11.70	NA	13.0	4.0	NC		NC	
7A01-21	178.1	NA	11.70	NA	13.0	4.5	NC		NC	
7A01-22	178.1	NA	11.70	NA	13.0	4.0	NC		NC	
7A01-23	178.1	NA	11.70	NA	13.0	4.0	NC		NC	
7A01-24	178.1	NA	11.70	NA	13.0	4.0	NC		NC	
7A01-25	178.1	NA	11.70	NA	13.0	3.5	NC		NC	
7A02	NA	NA	NA	NA	NA	NR	WIPE	b	WIPE	b
7A02-01	178.1	NA	11.70	NA	13.0	4.5	NC		NC	
7A02-02	178.1	NA	11.70	NA	13.0	5.0	NC		NC	
7A02-03	178.1	NA	11.70	NA	13.0	4.0	NC		NC	
7A02-04	178.1	NA	11.70	NA	13.0	4.0	NC		NC	

APPENDIX C
RADIOLOGICAL DATA (FIDLER SURVEY & MOUND SOIL SCREENING FACILITY) FOR AREA 7

	FIDLER SURVEY DATA						MOUND SOIL SCREENING FACILITY DATA			
SMPID	Contamination Criteria CH1	FIDLER Readings CH1	Contamination Criteria CH2	FIDLER Readings CH2	Contamination Criteria Out Channel	FIDLER Readings Out Channel	Plutonium - 238		Thorium - 232	
	Units: CPM	Units: CPM	Units: KCPM	Units: KCPM	Units: KCPM	Units: KCPM	Units: pCi/g		Units: pCi/g	
	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	Note:	RESULTS	Note:
7A02-05	178.1	NA	11.70	NA	13.0	4.0	NC		NC	
7A02-06	178.1	NA	11.70	NA	13.0	4.0	NC		NC	
7A02-07	178.1	NA	11.70	NA	13.0	4.0	NC		NC	
7A02-08	178.1	NA	11.70	NA	13.0	4.5	NC		NC	
7A02-09	178.1	NA	11.70	NA	13.0	4.0	NC		NC	
7A02-10	178.1	NA	11.70	NA	13.0	4.5	NC		NC	
7A02-11	NA	NA	NA	NA	NA	NR	NC		NC	
7A02-12	NA	NA	NA	NA	NA	NR	NC		NC	
7A02-13	NA	NA	NA	NA	NA	NR	NC		NC	
7A02-14	NA	NA	NA	NA	NA	NR	NC		NC	
7A02-15	NA	NA	NA	NA	NA	NR	NC		NC	
7A02-16	NA	NA	NA	NA	NA	NR	NC		NC	
7A02-17	NA	NA	NA	NA	NA	NR	NC		NC	
7A02-18	NA	NA	NA	NA	NA	NR	NC		NC	
7A02-19	NA	NA	NA	NA	NA	NR	NC		NC	
7A02-20	NA	NA	NA	NA	NA	NR	NC		NC	
7A02-21	NA	NA	NA	NA	NA	NR	NC		NC	
7A02-22	NA	NA	NA	NA	NA	NR	NC		NC	
7A02-23	NA	NA	NA	NA	NA	NR	NC		NC	
7A02-24	NA	NA	NA	NA	NA	NR	NC		NC	
7A02-25	NA	NA	NA	NA	NA	NR	NC		NC	
7A03	NA	NA	NA	NA	NA	NR	3		0.2	
7A03-01	182.0	NA	10.66	NA	11.7	4.0	NC		NC	
7A03-02	182.0	NA	10.66	NA	11.7	4.5	NC		NC	
7A03-03	NA	NA	NA	NA	NA	NR	NC		NC	
7A03-04	182.0	NA	10.66	NA	11.7	4.5	NC		NC	
7A03-05	182.0	NA	10.66	NA	11.7	4.0	NC		NC	
7A03-06	182.0	NA	10.66	NA	11.7	6.0	NC		NC	
7A03-07	182.0	NA	10.66	NA	11.7	8.0	NC		NC	
7A03-08	182.0	NA	10.66	NA	11.7	6.5	NC		NC	
7A03-09	182.0	NA	10.66	NA	11.7	6.5	NC		NC	

APPENDIX C
RADIOLOGICAL DATA (FIDLER SURVEY & MOUND SOIL SCREENING FACILITY) FOR AREA 7

	FIDLER SURVEY DATA						MOUND SOIL SCREENING FACILITY DATA			
SMPID	Contamination Criteria CH1	FIDLER Readings CH1	Contamination Criteria CH2	FIDLER Readings CH2	Contamination Criteria Out Channel	FIDLER Readings Out Channel	Plutonium - 238		Thorium - 232	
	Units: CPM	Units: CPM	Units: KCPM	Units: KCPM	Units: KCPM	Units: KCPM	Units: pCi/g		Units: pCi/g	
	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	Note:	RESULTS	Note:
7A03-10	182.0	NA	10.66	NA	11.7	7.0	NC		NC	
7A03-11	182.0	NA	10.66	NA	11.7	6.5	NC		NC	
7A03-12	182.0	NA	10.66	NA	11.7	6.5	NC		NC	
7A03-13	182.0	NA	10.66	NA	11.7	6.5	NC		NC	
7A03-14	182.0	NA	10.66	NA	11.7	6.5	NC		NC	
7A03-15	182.0	NA	10.66	NA	11.7	6.5	NC		NC	
7A03-16	182.0	NA	10.66	NA	11.7	5.0	NC		NC	
7A03-17	182.0	NA	10.66	NA	11.7	5.0	NC		NC	
7A03-18	182.0	NA	10.66	NA	11.7	4.5	NC		NC	
7A03-19	182.0	NA	10.66	NA	11.7	4.5	NC		NC	
7A03-20	182.0	NA	10.66	NA	11.7	4.0	NC		NC	
7A03-21	182.0	NA	10.66	NA	11.7	4.0	NC		NC	
7A03-22	182.0	NA	10.66	NA	11.7	4.0	NC		NC	
7A03-23	182.0	NA	10.66	NA	11.7	4.5	NC		NC	
7A03-24	182.0	NA	10.66	NA	11.7	4.5	NC		NC	
7A03-25	182.0	NA	10.66	NA	11.7	4.5	NC		NC	
7A04	NA	NA	NA	NA	NA	NR	WIPE	b	WIPE	b
7B01	NA	NA	NA	NA	NA	NR	WIPE	b	WIPE	b
7B01-01	182.0	NA	10.66	NA	11.7	5.0	NC		NC	
7B01-02	182.0	NA	10.66	NA	11.7	5.0	NC		NC	
7B01-03	182.0	NA	10.66	NA	11.7	5.0	NC		NC	
7B01-04	182.0	NA	10.66	NA	11.7	4.5	NC		NC	
7B01-05	182.0	NA	10.66	NA	11.7	4.5	NC		NC	
7B01-06	182.0	NA	10.66	NA	11.7	4.5	NC		NC	
7B01-07	182.0	NA	10.66	NA	11.7	5.0	NC		NC	
7B01-08	182.0	NA	10.66	NA	11.7	5.0	NC		NC	
7B01-09	182.0	NA	10.66	NA	11.7	5.0	NC		NC	
7B01-10	182.0	NA	10.66	NA	11.7	5.0	NC		NC	
7B01-11	182.0	NA	10.66	NA	11.7	5.0	NC		NC	
7B01-12	182.0	NA	10.66	NA	11.7	4.5	NC		NC	
7B01-13	182.0	NA	10.66	NA	11.7	5.0	NC		NC	

APPENDIX C
RADIOLOGICAL DATA (FIDLER SURVEY & MOUND SOIL SCREENING FACILITY) FOR AREA 7

	FIDLER SURVEY DATA						MOUND SOIL SCREENING FACILITY DATA			
SMPID	Contamination Criteria CH1	FIDLER Readings CH1	Contamination Criteria CH2	FIDLER Readings CH2	Contamination Criteria Out Channel	FIDLER Readings Out Channel	Plutonium - 238		Thorium - 232	
	Units: CPM	Units: CPM	Units: KCPM	Units: KCPM	Units: KCPM	Units: KCPM	Units: pCi/g		Units: pCi/g	
	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	Note:	RESULTS	Note:
7B01-14	182.0	NA	10.66	NA	11.7	5.0	NC		NC	
7B01-15	182.0	NA	10.66	NA	11.7	4.5	NC		NC	
7B01-16	182.0	NA	10.66	NA	11.7	4.0	NC		NC	
7B01-17	182.0	NA	10.66	NA	11.7	4.0	NC		NC	
7B01-18	182.0	NA	10.66	NA	11.7	4.5	NC		NC	
7B01-19	182.0	NA	10.66	NA	11.7	5.0	NC		NC	
7B01-20	182.0	NA	10.66	NA	11.7	5.0	NC		NC	
7B01-21	182.0	NA	10.66	NA	11.7	4.5	NC		NC	
7B01-22	182.0	NA	10.66	NA	11.7	4.5	NC		NC	
7B01-23	182.0	NA	10.66	NA	11.7	4.0	NC		NC	
7B01-24	182.0	NA	10.66	NA	11.7	4.0	NC		NC	
7B01-25	182.0	NA	10.66	NA	11.7	4.5	NC		NC	
7B02	NA	NA	NA	NA	NA	NR	6		0.2	
7B03	182	NA	10.66	NA	11.7	3.5	0		0.1	
7B03-01	182.0	NA	10.66	NA	11.7	3.5	NC		NC	
7B03-02	182.0	NA	10.66	NA	11.7	3.0	NC		NC	
7B03-03	182.0	NA	10.66	NA	11.7	3.5	NC		NC	
7B03-04	NA	NA	NA	NA	NA	NR	NC		NC	
7B03-05	182.0	NA	10.66	NA	11.7	4.0	NC		NC	
7B03-06	182.0	NA	10.66	NA	11.7	5.0	NC		NC	
7B03-07	182.0	NA	10.66	NA	11.7	5.5	NC		NC	
7B03-08	182.0	NA	10.66	NA	11.7	5.5	NC		NC	
7B03-09	182.0	NA	10.66	NA	11.7	5.0	NC		NC	
7B03-10	182.0	NA	10.66	NA	11.7	5.0	NC		NC	
7B03-11	182.0	NA	10.66	NA	11.7	6.0	NC		NC	
7B03-12	182.0	NA	10.66	NA	11.7	6.5	NC		NC	
7B03-13	182.0	NA	10.66	NA	11.7	7.0	NC		NC	
7B03-14	182.0	NA	10.66	NA	11.7	7.0	NC		NC	
7B03-15	182.0	NA	10.66	NA	11.7	7.5	NC		NC	
7B03-16	182.0	NA	10.66	NA	11.7	6.0	NC		NC	
7B03-17	182.0	NA	10.66	NA	11.7	5.5	NC		NC	

APPENDIX C
RADIOLOGICAL DATA (FIDLER SURVEY & MOUND SOIL SCREENING FACILITY) FOR AREA 7

	FIDLER SURVEY DATA						MOUND SOIL SCREENING FACILITY DATA			
SMPID	Contamination Criteria CH1	FIDLER Readings CH1	Contamination Criteria CH2	FIDLER Readings CH2	Contamination Criteria Out Channel	FIDLER Readings Out Channel	Plutonium - 238		Thorium - 232	
	Units: CPM	Units: CPM	Units: KCPM	Units: KCPM	Units: KCPM	Units: KCPM	Units: pCi/g		Units: pCi/g	
	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	Note:	RESULTS	Note:
7B03-18	182.0	NA	10.66	NA	11.7	5.5	NC		NC	
7B03-19	182.0	NA	10.66	NA	11.7	6.0	NC		NC	
7B03-20	182.0	NA	10.66	NA	11.7	5.0	NC		NC	
7B03-21	182.0	NA	10.66	NA	11.7	4.0	NC		NC	
7B03-22	182.0	NA	10.66	NA	11.7	4.5	NC		NC	
7B03-23	182.0	NA	10.66	NA	11.7	4.5	NC		NC	
7B03-24	182.0	NA	10.66	NA	11.7	4.5	NC		NC	
7B03-25	182.0	NA	10.66	NA	11.7	4.5	NC		NC	
7B04	NA	NA	NA	NA	NA	NR	WIPE	b	WIPE	b
7C01	NA	NA	NA	NA	NA	NR	WIPE	b	WIPE	b
7C01-01	178.1	NA	11.70	NA	13.0	4.0	NC		NC	
7C01-02	178.1	NA	11.70	NA	13.0	4.0	NC		NC	
7C01-03	178.1	NA	11.70	NA	13.0	4.0	NC		NC	
7C01-04	178.1	NA	11.70	NA	13.0	4.0	NC		NC	
7C01-05	178.1	NA	11.70	NA	13.0	5.0	NC		NC	
7C01-06	178.1	NA	11.70	NA	13.0	5.5	NC		NC	
7C01-07	178.1	NA	11.70	NA	13.0	4.5	NC		NC	
7C01-08	178.1	NA	11.70	NA	13.0	4.5	NC		NC	
7C01-09	178.1	NA	11.70	NA	13.0	4.0	NC		NC	
7C01-10	178.1	NA	11.70	NA	13.0	4.0	NC		NC	
7C01-11	178.1	NA	11.70	NA	13.0	3.5	NC		NC	
7C01-12	178.1	NA	11.70	NA	13.0	3.5	NC		NC	
7C01-13	178.1	NA	11.70	NA	13.0	4.0	NC		NC	
7C01-14	178.1	NA	11.70	NA	13.0	4.5	NC		NC	
7C01-15	178.1	NA	11.70	NA	13.0	6.0	NC		NC	
7C01-16	178.1	NA	11.70	NA	13.0	8.0	NC		NC	
7C01-17	178.1	NA	11.70	NA	13.0	6.0	NC		NC	
7C01-18	178.1	NA	11.70	NA	13.0	4.0	NC		NC	
7C01-19	178.1	NA	11.70	NA	13.0	3.5	NC		NC	
7C01-20	178.1	NA	11.70	NA	13.0	3.5	NC		NC	
7C01-21	178.1	NA	11.70	NA	13.0	3.5	NC		NC	

APPENDIX C
RADIOLOGICAL DATA (FIDLER SURVEY & MOUND SOIL SCREENING FACILITY) FOR AREA 7

	FIDLER SURVEY DATA						MOUND SOIL SCREENING FACILITY DATA			
SMPID	Contamination Criteria CH1	FIDLER Readings CH1	Contamination Criteria CH2	FIDLER Readings CH2	Contamination Criteria Out Channel	FIDLER Readings Out Channel	Plutonium - 238		Thorium - 232	
	Units: CPM	Units: CPM	Units: KCPM	Units: KCPM	Units: KCPM	Units: KCPM	Units: pCi/g		Units: pCi/g	
	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	Note:	RESULTS	Note:
7C01-22	178.1	NA	11.70	NA	13.0	3.5	NC		NC	
7C01-23	178.1	NA	11.70	NA	13.0	4.0	NC		NC	
7C01-24	178.1	NA	11.70	NA	13.0	5.0	NC		NC	
7C01-25	178.1	NA	11.70	NA	13.0	8.0	NC		NC	
7C02	NA	NA	NA	NA	NA	NR	WIPE	b	WIPE	b
7C02-01	178.1	NA	11.70	NA	13.0	3.5	NC		NC	
7C02-02	178.1	NA	11.70	NA	13.0	3.5	NC		NC	
7C02-03	178.1	NA	11.70	NA	13.0	4.0	NC		NC	
7C02-04	178.1	NA	11.70	NA	13.0	4.5	NC		NC	
7C02-05	178.1	NA	11.70	NA	13.0	7.5	NC		NC	
7C02-06	178.1	NA	11.70	NA	13.0	8.0	NC		NC	
7C02-07	178.1	NA	11.70	NA	13.0	5.0	NC		NC	
7C02-08	178.1	NA	11.70	NA	13.0	4.0	NC		NC	
7C02-09	178.1	NA	11.70	NA	13.0	3.5	NC		NC	
7C02-10	178.1	NA	11.70	NA	13.0	3.5	NC		NC	
7C02-11	178.1	NA	11.70	NA	13.0	4.0	NC		NC	
7C02-12	178.1	NA	11.70	NA	13.0	4.5	NC		NC	
7C02-13	178.1	NA	11.70	NA	13.0	4.5	NC		NC	
7C02-14	178.1	NA	11.70	NA	13.0	5.5	NC		NC	
7C02-15	178.1	NA	11.70	NA	13.0	7.5	NC		NC	
7C02-16	178.1	NA	11.70	NA	13.0	8.5	NC		NC	
7C02-17	178.1	NA	11.70	NA	13.0	5.5	NC		NC	
7C02-18	178.1	NA	11.70	NA	13.0	5.0	NC		NC	
7C02-19	178.1	NA	11.70	NA	13.0	4.0	NC		NC	
7C02-20	178.1	NA	11.70	NA	13.0	3.5	NC		NC	
7C02-21	178.1	NA	11.70	NA	13.0	3.5	NC		NC	
7C02-22	178.1	NA	11.70	NA	13.0	4.0	NC		NC	
7C02-23	178.1	NA	11.70	NA	13.0	4.5	NC		NC	
7C02-24	178.1	NA	11.70	NA	13.0	6.5	NC		NC	
7C02-25	178.1	NA	11.70	NA	13.0	7.5	NC		NC	
7C03	NA	NA	NA	NA	NA	NR	5		0.2	

APPENDIX C
RADIOLOGICAL DATA (FIDLER SURVEY & MOUND SOIL SCREENING FACILITY) FOR AREA 7

	FIDLER SURVEY DATA						MOUND SOIL SCREENING FACILITY DATA			
SMPID	Contamination Criteria CH1	FIDLER Readings CH1	Contamination Criteria CH2	FIDLER Readings CH2	Contamination Criteria Out Channel	FIDLER Readings Out Channel	Plutonium - 238		Thorium - 232	
	Units: CPM	Units: CPM	Units: KCPM	Units: KCPM	Units: KCPM	Units: KCPM	Units: pCi/g		Units: pCi/g	
	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	Note:	RESULTS	Note:
7C03-01	182.0	NA	10.66	NA	11.7	4.5	NC		NC	
7C03-02	182.0	NA	10.66	NA	11.7	5.0	NC		NC	
7C03-03	182.0	NA	10.66	NA	11.7	6.0	NC		NC	
7C03-04	182.0	NA	10.66	NA	11.7	6.5	NC		NC	
7C03-05	182.0	NA	10.66	NA	11.7	9.0	NC		NC	
7C03-06	182.0	NA	10.66	NA	11.7	8.5	NC		NC	
7C03-07	182.0	NA	10.66	NA	11.7	9.0	NC		NC	
7C03-08	182.0	NA	10.66	NA	11.7	7.5	NC		NC	
7C03-09	182.0	NA	10.66	NA	11.7	7.5	NC		NC	
7C03-10	182.0	NA	10.66	NA	11.7	5.5	NC		NC	
7C03-11	182.0	NA	10.66	NA	11.7	5.0	NC		NC	
7C03-12	182.0	NA	10.66	NA	11.7	7.5	NC		NC	
7C03-13	182.0	NA	10.66	NA	11.7	7.0	NC		NC	
7C03-14	182.0	NA	10.66	NA	11.7	8.0	NC		NC	
7C03-15	182.0	NA	10.66	NA	11.7	9.0	NC		NC	
7C03-16	182.0	NA	10.66	NA	11.7	8.0	NC		NC	
7C03-17	182.0	NA	10.66	NA	11.7	9.0	NC		NC	
7C03-18	182.0	NA	10.66	NA	11.7	7.5	NC		NC	
7C03-19	182.0	NA	10.66	NA	11.7	8.0	NC		NC	
7C03-20	182.0	NA	10.66	NA	11.7	7.5	NC		NC	
7C03-21	182.0	NA	10.66	NA	11.7	5.5	NC		NC	
7C03-22	182.0	NA	10.66	NA	11.7	6.0	NC		NC	
7C03-23	182.0	NA	10.66	NA	11.7	6.5	NC		NC	
7C03-24	182.0	NA	10.66	NA	11.7	5.5	NC		NC	
7C03-25	182.0	NA	10.66	NA	11.7	5.5	NC		NC	
7C04	NA	NA	NA	NA	NA	NR	WIPE	b	WIPE	b
7D01	NA	NA	NA	NA	NA	NR	WIPE	b	WIPE	b
7D01-01	182.0	NA	10.66	NA	11.7	5.5	NC		NC	
7D01-02	182.0	NA	10.66	NA	11.7	6.0	NC		NC	
7D01-03	182.0	NA	10.66	NA	11.7	6.5	NC		NC	
7D01-04	182.0	NA	10.66	NA	11.7	5.5	NC		NC	

APPENDIX C
RADIOLOGICAL DATA (FIDLER SURVEY & MOUND SOIL SCREENING FACILITY) FOR AREA 7

	FIDLER SURVEY DATA						MOUND SOIL SCREENING FACILITY DATA			
SMPID	Contamination Criteria CH1	FIDLER Readings CH1	Contamination Criteria CH2	FIDLER Readings CH2	Contamination Criteria Out Channel	FIDLER Readings Out Channel	Plutonium - 238		Thorium - 232	
	Units: CPM	Units: CPM	Units: KCPM	Units: KCPM	Units: KCPM	Units: KCPM	Units: pCi/g		Units: pCi/g	
	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	Note:	RESULTS	Note:
7D01-05	182.0	NA	10.66	NA	11.7	5.0	NC		NC	
7D01-06	182.0	NA	10.66	NA	11.7	6.5	NC		NC	
7D01-07	182.0	NA	10.66	NA	11.7	6.0	NC		NC	
7D01-08	182.0	NA	10.66	NA	11.7	5.5	NC		NC	
7D01-09	182.0	NA	10.66	NA	11.7	5.5	NC		NC	
7D01-10	182.0	NA	10.66	NA	11.7	7.0	NC		NC	
7D01-11	182.0	NA	10.66	NA	11.7	7.0	NC		NC	
7D01-12	182.0	NA	10.66	NA	11.7	8.0	NC		NC	
7D01-13	182.0	NA	10.66	NA	11.7	6.5	NC		NC	
7D01-14	182.0	NA	10.66	NA	11.7	6.5	NC		NC	
7D01-15	182.0	NA	10.66	NA	11.7	7.0	NC		NC	
7D01-16	182.0	NA	10.66	NA	11.7	8.5	NC		NC	
7D01-17	182.0	NA	10.66	NA	11.7	8.5	NC		NC	
7D01-18	182.0	NA	10.66	NA	11.7	9.0	NC		NC	
7D01-19	182.0	NA	10.66	NA	11.7	9.0	NC		NC	
7D01-20	182.0	NA	10.66	NA	11.7	9.0	NC		NC	
7D01-21	182.0	NA	10.66	NA	11.7	9.5	NC		NC	
7D01-22	182.0	NA	10.66	NA	11.7	9.0	NC		NC	
7D01-23	182.0	NA	10.66	NA	11.7	9.0	NC		NC	
7D01-24	182.0	NA	10.66	NA	11.7	8.5	NC		NC	
7D01-25	182.0	NA	10.66	NA	11.7	8.5	NC		NC	
7D02	NA	NA	NA	NA	NA	NR	24		0.7	
7D02-01	182.0	NA	10.66	NA	11.7	9.0	NC		NC	
7D02-02	182.0	NA	10.66	NA	11.7	9.0	NC		NC	
7D02-03	182.0	NA	10.66	NA	11.7	9.0	NC		NC	
7D02-04	182.0	NA	10.66	NA	11.7	8.5	NC		NC	
7D02-05	182.0	NA	10.66	NA	11.7	8.5	NC		NC	
7D02-06	182.0	NA	10.66	NA	11.7	8.5	NC		NC	
7D02-07	182.0	NA	10.66	NA	11.7	9.5	NC		NC	
7D02-08	182.0	NA	10.66	NA	11.7	9.5	NC		NC	
7D02-09	182.0	NA	10.66	NA	11.7	9.0	NC		NC	

APPENDIX C
RADIOLOGICAL DATA (FIDLER SURVEY & MOUND SOIL SCREENING FACILITY) FOR AREA 7

	FIDLER SURVEY DATA						MOUND SOIL SCREENING FACILITY DATA			
SMPID	Contamination Criteria CH1	FIDLER Readings CH1	Contamination Criteria CH2	FIDLER Readings CH2	Contamination Criteria Out Channel	FIDLER Readings Out Channel	Plutonium - 238		Thorium - 232	
	Units: CPM	Units: CPM	Units: KCPM	Units: KCPM	Units: KCPM	Units: KCPM	Units: pCi/g		Units: pCi/g	
	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	Note:	RESULTS	Note:
7D02-10	182.0	NA	10.66	NA	11.7	8.5	NC		NC	
7D02-11	182.0	NA	10.66	NA	11.7	8.5	NC		NC	
7D02-12	182.0	NA	10.66	NA	11.7	9.0	NC		NC	
7D02-13	182.0	NA	10.66	NA	11.7	9.5	NC		NC	
7D02-14	182.0	NA	10.66	NA	11.7	9.5	NC		NC	
7D02-15	182.0	NA	10.66	NA	11.7	8.0	NC		NC	
7D02-16	182.0	NA	10.66	NA	11.7	9.0	NC		NC	
7D02-17	182.0	NA	10.66	NA	11.7	9.0	NC		NC	
7D02-18	182.0	NA	10.66	NA	11.7	9.0	NC		NC	
7D02-19	182.0	NA	10.66	NA	11.7	8.0	NC		NC	
7D02-20	182.0	NA	10.66	NA	11.7	8.0	NC		NC	
7D02-21	182.0	NA	10.66	NA	11.7	8.5	NC		NC	
7D02-22	182.0	NA	10.66	NA	11.7	7.5	NC		NC	
7D02-23	182.0	NA	10.66	NA	11.7	8.5	NC		NC	
7D02-24	182.0	NA	10.66	NA	11.7	8.5	NC		NC	
7D02-25	182.0	NA	10.66	NA	11.7	9.0	NC		NC	
7D03	NA	NA	NA	NA	NA	NR	9		1.1	
7D03-01	182.0	NA	10.66	NA	11.7	9.5	NC		NC	
7D03-02	182.0	NA	10.66	NA	11.7	9.0	NC		NC	
7D03-03	182.0	NA	10.66	NA	11.7	9.5	NC		NC	
7D03-04	182.0	NA	10.66	NA	11.7	8.5	NC		NC	
7D03-05	182.0	NA	10.66	NA	11.7	8.5	NC		NC	
7D03-06	182.0	NA	10.66	NA	11.7	9.0	NC		NC	
7D03-07	182.0	NA	10.66	NA	11.7	9.0	NC		NC	
7D03-08	182.0	NA	10.66	NA	11.7	9.0	NC		NC	
7D03-09	182.0	NA	10.66	NA	11.7	8.5	NC		NC	
7D03-10	182.0	NA	10.66	NA	11.7	9.0	NC		NC	
7D03-11	182.0	NA	10.66	NA	11.7	9.5	NC		NC	
7D03-12	182.0	NA	10.66	NA	11.7	9.5	NC		NC	
7D03-13	182.0	NA	10.66	NA	11.7	9.5	NC		NC	
7D03-14	182.0	NA	10.66	NA	11.7	9.5	NC		NC	

APPENDIX C
RADIOLOGICAL DATA (FIDLER SURVEY & MOUND SOIL SCREENING FACILITY) FOR AREA 7

	FIDLER SURVEY DATA						MOUND SOIL SCREENING FACILITY DATA			
SMPID	Contamination Criteria CH1	FIDLER Readings CH1	Contamination Criteria CH2	FIDLER Readings CH2	Contamination Criteria Out Channel	FIDLER Readings Out Channel	Plutonium - 238		Thorium - 232	
	Units: CPM	Units: CPM	Units: KCPM	Units: KCPM	Units: KCPM	Units: KCPM	Units: pCi/g		Units: pCi/g	
	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	Note:	RESULTS	Note:
7D03-15	182.0	NA	10.66	NA	11.7	9.0	NC		NC	
7D03-16	182.0	NA	10.66	NA	11.7	8.5	NC		NC	
7D03-17	182.0	NA	10.66	NA	11.7	8.5	NC		NC	
7D03-18	182.0	NA	10.66	NA	11.7	8.5	NC		NC	
7D03-19	182.0	NA	10.66	NA	11.7	8.0	NC		NC	
7D03-20	182.0	NA	10.66	NA	11.7	7.0	NC		NC	
7D03-21	182.0	NA	10.66	NA	11.7	6.0	NC		NC	
7D03-22	182.0	NA	10.66	NA	11.7	6.0	NC		NC	
7D03-23	182.0	NA	10.66	NA	11.7	6.0	NC		NC	
7D03-24	182.0	NA	10.66	NA	11.7	6.5	NC		NC	
7D03-25	182.0	NA	10.66	NA	11.7	6.5	NC		NC	
7D04	NA	NA	NA	NA	NA	NR	WIPE	b	WIPE	b
7E01	NA	NA	NA	NA	NA	NR	WIPE	b	WIPE	b
7E02	NA	NA	NA	NA	NA	NR	22		0.7	
7E03	NA	NA	NA	NA	NA	NR	18		0.8	
7E04	NA	NA	NA	NA	NA	NR	8		0.6	
7F07	NA	NA	NA	NA	NA	NR	WIPE	b	WIPE	b
7F07-01	182.0	NA	10.66	NA	11.7	5.5	NC		NC	
7F07-02	182.0	NA	10.66	NA	11.7	5.5	NC		NC	
7F07-03	182.0	NA	10.66	NA	11.7	5.5-	NC		NC	
7F07-04	182.0	NA	10.66	NA	11.7	6.0	NC		NC	
7F07-05	182.0	NA	10.66	NA	11.7	6.0	NC		NC	
7F07-06	182.0	NA	10.66	NA	11.7	5.5	NC		NC	
7F07-07	182.0	NA	10.66	NA	11.7	5.0	NC		NC	
7F07-08	182.0	NA	10.66	NA	11.7	5.0	NC		NC	
7F07-09	182.0	NA	10.66	NA	11.7	5.5	NC		NC	
7F07-10	182.0	NA	10.66	NA	11.7	6.0	NC		NC	
7F07-11	182.0	NA	10.66	NA	11.7	5.5	NC		NC	
7F07-12	182.0	NA	10.66	NA	11.7	5.5	NC		NC	
7F07-13	182.0	NA	10.66	NA	11.7	5.5	NC		NC	
7F07-14	182.0	NA	10.66	NA	11.7	5.5	NC		NC	

APPENDIX C
RADIOLOGICAL DATA (FIDLER SURVEY & MOUND SOIL SCREENING FACILITY) FOR AREA 7

	FIDLER SURVEY DATA						MOUND SOIL SCREENING FACILITY DATA			
SMPID	Contamination Criteria CH1	FIDLER Readings CH1	Contamination Criteria CH2	FIDLER Readings CH2	Contamination Criteria Out Channel	FIDLER Readings Out Channel	Plutonium - 238		Thorium - 232	
	Units: CPM	Units: CPM	Units: KCPM	Units: KCPM	Units: KCPM	Units: KCPM	Units: pCi/g		Units: pCi/g	
	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	Note:	RESULTS	Note:
7F07-15	182.0	NA	10.66	NA	11.7	5.5	NC		NC	
7F07-16	182.0	NA	10.66	NA	11.7	6.0	NC		NC	
7F07-17	182.0	NA	10.66	NA	11.7	6.0	NC		NC	
7F07-18	182.0	NA	10.66	NA	11.7	6.0	NC		NC	
7F07-19	182.0	NA	10.66	NA	11.7	5.5	NC		NC	
7F07-20	182.0	NA	10.66	NA	11.7	5.5	NC		NC	
7F07-21	182.0	NA	10.66	NA	11.7	6.5	NC		NC	
7F07-22	182.0	NA	10.66	NA	11.7	6.5	NC		NC	
7F07-23	182.0	NA	10.66	NA	11.7	6.0	NC		NC	
7F07-24	182.0	NA	10.66	NA	11.7	6.0	NC		NC	
7F07-25	182.0	NA	10.66	NA	11.7	6.0	NC		NC	
7F08	NA	NA	NA	NA	NA	NR	WIPE	b	WIPE	b
7F08-01	182.0	NA	10.66	NA	11.7	8.0	NC		NC	
7F08-02	182.0	340	10.66	60	11.7	34.0	NC		NC	
7F08-03	182.0	NA	10.66	NA	11.7	23.0	NC		NC	
7F08-04	182.0	NA	10.66	NA	11.7	17.0	NC		NC	
7F08-05	182.0	NA	10.66	NA	11.7	11.0	NC		NC	
7F08-06	182.0	NA	10.66	NA	11.7	6.5	NC		NC	
7F08-07	182.0	NA	10.66	NA	11.7	11.0	NC		NC	
7F08-08	182.0	NA	10.66	NA	11.7	15.0	NC		NC	
7F08-09	182.0	NA	10.66	NA	11.7	23.0	NC		NC	
7F08-10	182.0	NA	10.66	NA	11.7	8.0	NC		NC	
7F08-11	182.0	NA	10.66	NA	11.7	5.5	NC		NC	
7F08-12	182.0	NA	10.66	NA	11.7	6.0	NC		NC	
7F08-13	182.0	NA	10.66	NA	11.7	6.5	NC		NC	
7F08-14	182.0	NA	10.66	NA	11.7	5.5	NC		NC	
7F08-15	182.0	NA	10.66	NA	11.7	5.5	NC		NC	
7F08-16	182.0	NA	10.66	NA	11.7	6.0	NC		NC	
7F08-17	182.0	NA	10.66	NA	11.7	5.5	NC		NC	
7F08-18	182.0	NA	10.66	NA	11.7	5.5	NC		NC	
7F08-19	182.0	NA	10.66	NA	11.7	5.5	NC		NC	

APPENDIX C
RADIOLOGICAL DATA (FIDLER SURVEY & MOUND SOIL SCREENING FACILITY) FOR AREA 7

	FIDLER SURVEY DATA						MOUND SOIL SCREENING FACILITY DATA			
SMPID	Contamination Criteria CH1	FIDLER Readings CH1	Contamination Criteria CH2	FIDLER Readings CH2	Contamination Criteria Out Channel	FIDLER Readings Out Channel	Plutonium - 238		Thorium - 232	
	Units: CPM	Units: CPM	Units: KCPM	Units: KCPM	Units: KCPM	Units: KCPM	Units: pCi/g		Units: pCi/g	
	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	Note:	RESULTS	Note:
7F08-20	182.0	NA	10.66	NA	11.7	5.5	NC		NC	
7F08-21	182.0	NA	10.66	NA	11.7	5.5	NC		NC	
7F08-22	182.0	NA	10.66	NA	11.7	5.5	NC		NC	
7F08-23	182.0	NA	10.66	NA	11.7	5.5	NC		NC	
7F08-24	182.0	NA	10.66	NA	11.7	5.5	NC		NC	
7F08-25	182.0	NA	10.66	NA	11.7	5.5	NC		NC	
7G07	NA	NA	NA	NA	NA	NR	WIPE	b	WIPE	b
7G07-01	182.0	NA	10.66	NA	11.7	6.0	NC		NC	
7G07-02	182.0	NA	10.66	NA	11.7	6.0	NC		NC	
7G07-03	182.0	NA	10.66	NA	11.7	6.0	NC		NC	
7G07-04	182.0	NA	10.66	NA	11.7	6.5	NC		NC	
7G07-05	182.0	NA	10.66	NA	11.7	5.5	NC		NC	
7G07-06	182.0	NA	10.66	NA	11.7	5.0	NC		NC	
7G07-07	182.0	NA	10.66	NA	11.7	5.5	NC		NC	
7G07-08	182.0	NA	10.66	NA	11.7	5.0	NC		NC	
7G07-09	182.0	NA	10.66	NA	11.7	5.5	NC		NC	
7G07-10	182.0	NA	10.66	NA	11.7	5.5	NC		NC	
7G07-11	182.0	NA	10.66	NA	11.7	6.0	NC		NC	
7G07-12	182.0	NA	10.66	NA	11.7	5.5	NC		NC	
7G07-13	182.0	NA	10.66	NA	11.7	5.0	NC		NC	
7G07-14	182.0	NA	10.66	NA	11.7	5.5	NC		NC	
7G07-15	182.0	NA	10.66	NA	11.7	5.0	NC		NC	
7G07-16	182.0	NA	10.66	NA	11.7	5.0	NC		NC	
7G07-17	182.0	NA	10.66	NA	11.7	5.0	NC		NC	
7G07-18	182.0	NA	10.66	NA	11.7	5.0	NC		NC	
7G07-19	182.0	NA	10.66	NA	11.7	5.5	NC		NC	
7G07-20	182.0	NA	10.66	NA	11.7	5.5	NC		NC	
7G07-21	182.0	NA	10.66	NA	11.7	6.5	NC		NC	
7G07-22	182.0	NA	10.66	NA	11.7	7.0	NC		NC	
7G07-23	182.0	NA	10.66	NA	11.7	5.5	NC		NC	
7G07-24	182.0	NA	10.66	NA	11.7	5.5	NC		NC	

APPENDIX C
RADIOLOGICAL DATA (FIDLER SURVEY & MOUND SOIL SCREENING FACILITY) FOR AREA 7

	FIDLER SURVEY DATA						MOUND SOIL SCREENING FACILITY DATA			
SMPID	Contamination Criteria CH1	FIDLER Readings CH1	Contamination Criteria CH2	FIDLER Readings CH2	Contamination Criteria Out Channel	FIDLER Readings Out Channel	Plutonium - 238		Thorium - 232	
	Units: CPM	Units: CPM	Units: KCPM	Units: KCPM	Units: KCPM	Units: KCPM	Units: pCi/g		Units: pCi/g	
	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	Note:	RESULTS	Note:
7G07-25	182.0	NA	10.66	NA	11.7	6.0	NC		NC	
7G08	NA	NA	NA	NA	NA	NR	WIPE	b	WIPE	b
7G08-01	166.4	NA	9.49	NA	11.05	8.5	NC		NC	
7G08-02	166.4	NA	9.49	NA	11.05	6.5	NC		NC	
7G08-03	166.4	NA	9.49	NA	11.05	6.5	NC		NC	
7G08-04	166.4	NA	9.49	NA	11.05	6.0	NC		NC	
7G08-05	166.4	NA	9.49	NA	11.05	5.5	NC		NC	
7G08-06	166.4	NA	9.49	NA	11.05	5.5	NC		NC	
7G08-07	166.4	NA	9.49	NA	11.05	6.0	NC		NC	
7G08-08	166.4	NA	9.49	NA	11.05	6.0	NC		NC	
7G08-09	166.4	NA	9.49	NA	11.05	6.5	NC		NC	
7G08-10	166.4	NA	9.49	NA	11.05	7.0	NC		NC	
7G08-11	166.4	NA	9.49	NA	11.05	6.5	NC		NC	
7G08-12	166.4	NA	9.49	NA	11.05	6.5	NC		NC	
7G08-13	166.4	NA	9.49	NA	11.05	6.5	NC		NC	
7G08-14	166.4	NA	9.49	NA	11.05	6.0	NC		NC	
7G08-15	166.4	NA	9.49	NA	11.05	5.5	NC		NC	
7G08-16	166.4	NA	9.49	NA	11.05	6.0	NC		NC	
7G08-17	166.4	NA	9.49	NA	11.05	6.5	NC		NC	
7G08-18	166.4	NA	9.49	NA	11.05	6.0	NC		NC	
7G08-19	166.4	NA	9.49	NA	11.05	6.5	NC		NC	
7G08-20	166.4	NA	9.49	NA	11.05	6.5	NC		NC	
7G08-21	166.4	NA	9.49	NA	11.05	6.5	NC		NC	
7G08-22	166.4	NA	9.49	NA	11.05	6.5	NC		NC	
7G08-23	166.4	NA	9.49	NA	11.05	6.0	NC		NC	
7G08-24	166.4	NA	9.49	NA	11.05	6.0	NC		NC	
7G08-25	166.4	NA	9.49	NA	11.05	5.5	NC		NC	
7G09	NA	NA	NA	NA	NA	NR	WIPE	b	WIPE	b
7G09-01	166.4	NA	9.49	NA	11.05	6.5	NC		NC	
7G09-02	166.4	NA	9.49	NA	11.05	6.5	NC		NC	
7G09-03	166.4	NA	9.49	NA	11.05	6.0	NC		NC	

APPENDIX C
RADIOLOGICAL DATA (FIDLER SURVEY & MOUND SOIL SCREENING FACILITY) FOR AREA 7

	FIDLER SURVEY DATA						MOUND SOIL SCREENING FACILITY DATA			
SMPID	Contamination Criteria CH1	FIDLER Readings CH1	Contamination Criteria CH2	FIDLER Readings CH2	Contamination Criteria Out Channel	FIDLER Readings Out Channel	Plutonium - 238		Thorium - 232	
	Units: CPM	Units: CPM	Units: KCPM	Units: KCPM	Units: KCPM	Units: KCPM	Units: pCi/g		Units: pCi/g	
	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	Note:	RESULTS	Note:
7G09-04	166.4	NA	9.49	NA	11.05	6.0	NC		NC	
7G09-05	166.4	NA	9.49	NA	11.05	6.0	NC		NC	
7G09-06	166.4	NA	9.49	NA	11.05	6.0	NC		NC	
7G09-07	166.4	NA	9.49	NA	11.05	6.0	NC		NC	
7G09-08	166.4	NA	9.49	NA	11.05	6.0	NC		NC	
7G09-09	166.4	NA	9.49	NA	11.05	6.0	NC		NC	
7G09-10	166.4	NA	9.49	NA	11.05	5.5	NC		NC	
7G09-11	166.4	NA	9.49	NA	11.05	5.5	NC		NC	
7G09-12	166.4	NA	9.49	NA	11.05	5.5	NC		NC	
7G09-13	166.4	NA	9.49	NA	11.05	5.5	NC		NC	
7G09-14	166.4	NA	9.49	NA	11.05	6.0	NC		NC	
7G09-15	166.4	NA	9.49	NA	11.05	6.0	NC		NC	
7G09-16	166.4	NA	9.49	NA	11.05	6.0	NC		NC	
7G09-17	166.4	NA	9.49	NA	11.05	5.5	NC		NC	
7G09-18	166.4	NA	9.49	NA	11.05	5.5	NC		NC	
7G09-19	166.4	NA	9.49	NA	11.05	5.5	NC		NC	
7G09-20	166.4	NA	9.49	NA	11.05	4.5	NC		NC	
7G09-21	166.4	NA	9.49	NA	11.05	5.5	NC		NC	
7G09-22	166.4	NA	9.49	NA	11.05	5.5	NC		NC	
7G09-23	166.4	NA	9.49	NA	11.05	6.0	NC		NC	
7G09-24	166.4	NA	9.49	NA	11.05	6.0	NC		NC	
7G09-25	166.4	NA	9.49	NA	11.05	6.0	NC		NC	
7G10	NA	NA	NA	NA	NA	NR	2		0.3	
7G10-01	182.0	NA	10.66	NA	11.7	4.0	NC		NC	
7G10-02	182.0	NA	10.66	NA	11.7	4.5	NC		NC	
7G10-03	182.0	NA	10.66	NA	11.7	4.5	NC		NC	
7G10-04	182.0	NA	10.66	NA	11.7	5.0	NC		NC	
7G10-05	182.0	NA	10.66	NA	11.7	4.5	NC		NC	
7G10-06	182.0	NA	10.66	NA	11.7	4.5	NC		NC	
7G10-07	182.0	NA	10.66	NA	11.7	4.5	NC		NC	
7G10-08	182.0	NA	10.66	NA	11.7	4.0	NC		NC	

APPENDIX C
RADIOLOGICAL DATA (FIDLER SURVEY & MOUND SOIL SCREENING FACILITY) FOR AREA 7

	FIDLER SURVEY DATA						MOUND SOIL SCREENING FACILITY DATA			
SMPID	Contamination Criteria CH1	FIDLER Readings CH1	Contamination Criteria CH2	FIDLER Readings CH2	Contamination Criteria Out Channel	FIDLER Readings Out Channel	Plutonium - 238		Thorium - 232	
	Units: CPM	Units: CPM	Units: KCPM	Units: KCPM	Units: KCPM	Units: KCPM	Units: pCi/g		Units: pCi/g	
	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	Note:	RESULTS	Note:
7G10-09	NA	NA	NA	NA	NA	NR	NC		NC	
7G10-10	NA	NA	NA	NA	NA	NR	NC		NC	
7G10-11	NA	NA	NA	NA	NA	NR	NC		NC	
7G10-12	NA	NA	NA	NA	NA	NR	NC		NC	
7G10-13	182.0	NA	10.66	NA	11.7	4.0	NC		NC	
7G10-14	182.0	NA	10.66	NA	11.7	4.0	NC		NC	
7G10-15	182.0	NA	10.66	NA	11.7	5.0	NC		NC	
7G10-16	182.0	NA	10.66	NA	11.7	4.5	NC		NC	
7G10-17	182.0	NA	10.66	NA	11.7	4.0	NC		NC	
7G10-18	182.0	NA	10.66	NA	11.7	4.0	NC		NC	
7G10-19	NA	NA	NA	NA	NA	NR	NC		NC	
7G10-20	NA	NA	NA	NA	NA	NR	NC		NC	
7G10-21	NA	NA	NA	NA	NA	NR	NC		NC	
7G10-22	NA	NA	NA	NA	NA	NR	NC		NC	
7G10-23	182.0	NA	10.66	NA	11.7	4.0	NC		NC	
7G10-24	182.0	NA	10.66	NA	11.7	4.0	NC		NC	
7G10-25	182.0	NA	10.66	NA	11.7	5.0	NC		NC	
7G11	NA	NA	NA	NA	NA	NR	WIPE	b	WIPE	b
7G11-01	NA	NA	NA	NA	NA	NR	NC		NC	
7G11-02	NA	NA	NA	NA	NA	NR	NC		NC	
7G11-03	NA	NA	NA	NA	NA	NR	NC		NC	
7G11-04	182.0	NA	10.66	NA	11.7	4.5	NC		NC	
7G11-05	182.0	NA	10.66	NA	11.7	5.5	NC		NC	
7G11-06	182.0	NA	10.66	NA	11.7	5.0	NC		NC	
7G11-07	182.0	NA	10.66	NA	11.7	4.5	NC		NC	
7G11-08	182.0	NA	10.66	NA	11.7	4.5	NC		NC	
7G11-09	182.0	NA	10.66	NA	11.7	4.0	NC		NC	
7G11-10	182.0	NA	10.66	NA	11.7	4.0	NC		NC	
7G11-11	182.0	NA	10.66	NA	11.7	4.0	NC		NC	
7G11-12	182.0	NA	10.66	NA	11.7	4.5	NC		NC	
7G11-13	182.0	NA	10.66	NA	11.7	4.0	NC		NC	

APPENDIX C
RADIOLOGICAL DATA (FIDLER SURVEY & MOUND SOIL SCREENING FACILITY) FOR AREA 7

	FIDLER SURVEY DATA						MOUND SOIL SCREENING FACILITY DATA			
SMPID	Contamination Criteria CH1	FIDLER Readings CH1	Contamination Criteria CH2	FIDLER Readings CH2	Contamination Criteria Out Channel	FIDLER Readings Out Channel	Plutonium - 238		Thorium - 232	
	Units: CPM	Units: CPM	Units: KCPM	Units: KCPM	Units: KCPM	Units: KCPM	Units: pCi/g		Units: pCi/g	
	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	Note:	RESULTS	Note:
7G11-14	182.0	NA	10.66	NA	11.7	5.0	NC		NC	
7G11-15	182.0	NA	10.66	NA	11.7	5.0	NC		NC	
7G11-16	182.0	NA	10.66	NA	11.7	4.5	NC		NC	
7G11-17	182.0	NA	10.66	NA	11.7	4.5	NC		NC	
7G11-18	182.0	NA	10.66	NA	11.7	4.5	NC		NC	
7G11-19	182.0	NA	10.66	NA	11.7	4.0	NC		NC	
7G11-20	182.0	NA	10.66	NA	11.7	4.0	NC		NC	
7G11-21	182.0	NA	10.66	NA	11.7	4.0	NC		NC	
7G11-22	182.0	NA	10.66	NA	11.7	4.5	NC		NC	
7G11-23	182.0	NA	10.66	NA	11.7	4.5	NC		NC	
7G11-24	182.0	NA	10.66	NA	11.7	5.0	NC		NC	
7G11-25	182.0	NA	10.66	NA	11.7	5.5	NC		NC	
7G12	NA	NA	NA	NA	NA	NR	0		0.3	
7G12-01	182.0	NA	10.66	NA	11.7	4.0	NC		NC	
7G12-02	182.0	NA	10.66	NA	11.7	4.5	NC		NC	
7G12-03	182.0	NA	10.66	NA	11.7	4.5	NC		NC	
7G12-04	182.0	NA	10.66	NA	11.7	4.5	NC		NC	
7G12-05	182.0	NA	10.66	NA	11.7	5.5	NC		NC	
7G12-06	182.0	NA	10.66	NA	11.7	5.0	NC		NC	
7G12-07	182.0	NA	10.66	NA	11.7	4.5	NC		NC	
7G12-08	182.0	NA	10.66	NA	11.7	4.0	NC		NC	
7G12-09	182.0	NA	10.66	NA	11.7	4.0	NC		NC	
7G12-10	182.0	NA	10.66	NA	11.7	4.0	NC		NC	
7G12-11	182.0	NA	10.66	NA	11.7	4.0	NC		NC	
7G12-12	182.0	NA	10.66	NA	11.7	5.0	NC		NC	
7G12-13	182.0	NA	10.66	NA	11.7	4.0	NC		NC	
7G12-14	182.0	NA	10.66	NA	11.7	5.0	NC		NC	
7G12-15	182.0	NA	10.66	NA	11.7	5.5	NC		NC	
7G12-16	182.0	NA	10.66	NA	11.7	5.0	NC		NC	
7G12-17	182.0	NA	10.66	NA	11.7	4.0	NC		NC	
7G12-18	182.0	NA	10.66	NA	11.7	4.5	NC		NC	

APPENDIX C
RADIOLOGICAL DATA (FIDLER SURVEY & MOUND SOIL SCREENING FACILITY) FOR AREA 7

	FIDLER SURVEY DATA						MOUND SOIL SCREENING FACILITY DATA			
SMPID	Contamination Criteria CH1	FIDLER Readings CH1	Contamination Criteria CH2	FIDLER Readings CH2	Contamination Criteria Out Channel	FIDLER Readings Out Channel	Plutonium - 238		Thorium - 232	
	Units: CPM	Units: CPM	Units: KCPM	Units: KCPM	Units: KCPM	Units: KCPM	Units: pCi/g		Units: pCi/g	
	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	Note:	RESULTS	Note:
7G12-19	182.0	NA	10.66	NA	11.7	4.0	NC		NC	
7G12-20	182.0	NA	10.66	NA	11.7	4.0	NC		NC	
7G12-21	182.0	NA	10.66	NA	11.7	4.5	NC		NC	
7G12-22	182.0	NA	10.66	NA	11.7	5.0	NC		NC	
7G12-23	182.0	NA	10.66	NA	11.7	4.5	NC		NC	
7G12-24	182.0	NA	10.66	NA	11.7	4.0	NC		NC	
7G12-25	182.0	NA	10.66	NA	11.7	4.5	NC		NC	
7G13	NA	NA	NA	NA	NA	NR	5		0.2	
7G13-01	182.0	NA	10.66	NA	11.7	5.0	NC		NC	
7G13-02	182.0	NA	10.66	NA	11.7	4.5	NC		NC	
7G13-03	182.0	NA	10.66	NA	11.7	5.0	NC		NC	
7G13-04	182.0	NA	10.66	NA	11.7	5.0	NC		NC	
7G13-05	182.0	NA	10.66	NA	11.7	5.5	NC		NC	
7G13-06	182.0	NA	10.66	NA	11.7	5.0	NC		NC	
7G13-07	182.0	NA	10.66	NA	11.7	4.5	NC		NC	
7G13-08	182.0	NA	10.66	NA	11.7	5.0	NC		NC	
7G13-09	182.0	NA	10.66	NA	11.7	5.0	NC		NC	
7G13-10	182.0	NA	10.66	NA	11.7	4.5	NC		NC	
7G13-11	182.0	NA	10.66	NA	11.7	5.0	NC		NC	
7G13-12	182.0	NA	10.66	NA	11.7	5.0	NC		NC	
7G13-13	182.0	NA	10.66	NA	11.7	5.0	NC		NC	
7G13-14	182.0	NA	10.66	NA	11.7	5.5	NC		NC	
7G13-15	182.0	NA	10.66	NA	11.7	5.0	NC		NC	
7G13-16	182.0	NA	10.66	NA	11.7	5.5	NC		NC	
7G13-17	182.0	NA	10.66	NA	11.7	4.5	NC		NC	
7G13-18	182.0	NA	10.66	NA	11.7	4.5	NC		NC	
7G13-19	182.0	NA	10.66	NA	11.7	5.0	NC		NC	
7G13-20	182.0	NA	10.66	NA	11.7	4.5	NC		NC	
7G13-21	182.0	NA	10.66	NA	11.7	5.0	NC		NC	
7G13-22	182.0	NA	10.66	NA	11.7	5.0	NC		NC	
7G13-23	182.0	NA	10.66	NA	11.7	5.0	NC		NC	

APPENDIX C
RADIOLOGICAL DATA (FIDLER SURVEY & MOUND SOIL SCREENING FACILITY) FOR AREA 7

	FIDLER SURVEY DATA						MOUND SOIL SCREENING FACILITY DATA			
SMPID	Contamination Criteria CH1	FIDLER Readings CH1	Contamination Criteria CH2	FIDLER Readings CH2	Contamination Criteria Out Channel	FIDLER Readings Out Channel	Plutonium - 238		Thorium - 232	
	Units: CPM	Units: CPM	Units: KCPM	Units: KCPM	Units: KCPM	Units: KCPM	Units: pCi/g		Units: pCi/g	
	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	Note:	RESULTS	Note:
7G13-24	182.0	NA	10.66	NA	11.7	5.0	NC		NC	
7G13-25	182.0	NA	10.66	NA	11.7	5.0	NC		NC	
7G14	NA	NA	NA	NA	NA	NR	1		0.4	
7G14-01	182.0	NA	10.66	NA	11.7	5.0	NC		NC	
7G14-02	182.0	NA	10.66	NA	11.7	5.0	NC		NC	
7G14-03	182.0	NA	10.66	NA	11.7	5.0	NC		NC	
7G14-04	182.0	NA	10.66	NA	11.7	5.5	NC		NC	
7G14-05	182.0	NA	10.66	NA	11.7	5.5	NC		NC	
7G14-06	182.0	NA	10.66	NA	11.7	6.0	NC		NC	
7G14-07	182.0	NA	10.66	NA	11.7	5.0	NC		NC	
7G14-08	182.0	NA	10.66	NA	11.7	5.0	NC		NC	
7G14-09	182.0	NA	10.66	NA	11.7	5.0	NC		NC	
7G14-10	182.0	NA	10.66	NA	11.7	5.5	NC		NC	
7G14-11	182.0	NA	10.66	NA	11.7	6.0	NC		NC	
7G14-12	182.0	NA	10.66	NA	11.7	5.5	NC		NC	
7G14-13	182.0	NA	10.66	NA	11.7	5.5	NC		NC	
7G14-14	182.0	NA	10.66	NA	11.7	5.0	NC		NC	
7G14-15	182.0	NA	10.66	NA	11.7	5.5	NC		NC	
7G14-16	182.0	NA	10.66	NA	11.7	5.0	NC		NC	
7G14-17	182.0	NA	10.66	NA	11.7	5.0	NC		NC	
7G14-18	182.0	NA	10.66	NA	11.7	5.0	NC		NC	
7G14-19	182.0	NA	10.66	NA	11.7	5.0	NC		NC	
7G14-20	182.0	NA	10.66	NA	11.7	5.0	NC		NC	
7G14-21	182.0	NA	10.66	NA	11.7	5.0	NC		NC	
7G14-22	182.0	NA	10.66	NA	11.7	4.5	NC		NC	
7G14-23	182.0	NA	10.66	NA	11.7	4.5	NC		NC	
7G14-24	182.0	NA	10.66	NA	11.7	4.5	NC		NC	
7G14-25	182.0	NA	10.66	NA	11.7	5.5	NC		NC	
7G15	NA	NA	NA	NA	NA	NR	9		0.6	
7H05	NA	NA	NA	NA	NA	NR	10		0.6	
7H05-01	166.4	NA	9.49	NA	11.05	6.0	NC		NC	

APPENDIX C
RADIOLOGICAL DATA (FIDLER SURVEY & MOUND SOIL SCREENING FACILITY) FOR AREA 7

	FIDLER SURVEY DATA						MOUND SOIL SCREENING FACILITY DATA			
SMPID	Contamination Criteria CH1	FIDLER Readings CH1	Contamination Criteria CH2	FIDLER Readings CH2	Contamination Criteria Out Channel	FIDLER Readings Out Channel	Plutonium - 238		Thorium - 232	
	Units: CPM	Units: CPM	Units: KCPM	Units: KCPM	Units: KCPM	Units: KCPM	Units: pCi/g		Units: pCi/g	
	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	Note:	RESULTS	Note:
7H05-02	166.4	NA	9.49	NA	11.05	5.5	NC		NC	
7H05-03	166.4	NA	9.49	NA	11.05	5.0	NC		NC	
7H05-04	166.4	NA	9.49	NA	11.05	5.5	NC		NC	
7H05-05	166.4	NA	9.49	NA	11.05	5.5	NC		NC	
7H05-06	166.4	NA	9.49	NA	11.05	5.5	NC		NC	
7H05-07	166.4	NA	9.49	NA	11.05	5.5	NC		NC	
7H05-08	166.4	NA	9.49	NA	11.05	5.5	NC		NC	
7H05-09	166.4	NA	9.49	NA	11.05	5.5	NC		NC	
7H05-10	166.4	NA	9.49	NA	11.05	5.0	NC		NC	
7H05-11	166.4	NA	9.49	NA	11.05	5.5	NC		NC	
7H05-12	166.4	NA	9.49	NA	11.05	5.5	NC		NC	
7H05-13	166.4	NA	9.49	NA	11.05	5.0	NC		NC	
7H05-14	166.4	NA	9.49	NA	11.05	6.0	NC		NC	
7H05-15	166.4	NA	9.49	NA	11.05	5.5	NC		NC	
7H05-16	166.4	NA	9.49	NA	11.05	5.5	NC		NC	
7H05-17	166.4	NA	9.49	NA	11.05	5.0	NC		NC	
7H05-18	166.4	NA	9.49	NA	11.05	5.5	NC		NC	
7H05-19	166.4	NA	9.49	NA	11.05	5.5	NC		NC	
7H05-20	166.4	NA	9.49	NA	11.05	5.0	NC		NC	
7H05-21	166.4	NA	9.49	NA	11.05	5.5	NC		NC	
7H05-22	166.4	NA	9.49	NA	11.05	5.0	NC		NC	
7H05-23	166.4	NA	9.49	NA	11.05	5.5	NC		NC	
7H05-24	166.4	NA	9.49	NA	11.05	5.5	NC		NC	
7H05-25	166.4	NA	9.49	NA	11.05	5.0	NC		NC	
7H06	NA	NA	NA	NA	NA	NR	10		0.5	
7H06-01	166.4	NA	9.49	NA	11.05	6.0	NC		NC	
7H06-02	166.4	NA	9.49	NA	11.05	6.0	NC		NC	
7H06-03	166.4	NA	9.49	NA	11.05	5.5	NC		NC	
7H06-04	166.4	NA	9.49	NA	11.05	5.0	NC		NC	
7H06-05	166.4	NA	9.49	NA	11.05	5.0	NC		NC	
7H06-06	166.4	NA	9.49	NA	11.05	5.0	NC		NC	

APPENDIX C
RADIOLOGICAL DATA (FIDLER SURVEY & MOUND SOIL SCREENING FACILITY) FOR AREA 7

	FIDLER SURVEY DATA						MOUND SOIL SCREENING FACILITY DATA			
SMPID	Contamination Criteria CH1	FIDLER Readings CH1	Contamination Criteria CH2	FIDLER Readings CH2	Contamination Criteria Out Channel	FIDLER Readings Out Channel	Plutonium - 238		Thorium - 232	
	Units: CPM	Units: CPM	Units: KCPM	Units: KCPM	Units: KCPM	Units: KCPM	Units: pCi/g		Units: pCi/g	
	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	Note:	RESULTS	Note:
7H06-07	166.4	NA	9.49	NA	11.05	6.0	NC		NC	
7H06-08	166.4	NA	9.49	NA	11.05	5.5	NC		NC	
7H06-09	166.4	NA	9.49	NA	11.05	5.5	NC		NC	
7H06-10	166.4	NA	9.49	NA	11.05	5.5	NC		NC	
7H06-11	166.4	NA	9.49	NA	11.05	6.0	NC		NC	
7H06-12	166.4	NA	9.49	NA	11.05	5.5	NC		NC	
7H06-13	166.4	NA	9.49	NA	11.05	6.0	NC		NC	
7H06-14	166.4	NA	9.49	NA	11.05	5.0	NC		NC	
7H06-15	166.4	NA	9.49	NA	11.05	5.5	NC		NC	
7H06-16	166.4	NA	9.49	NA	11.05	6.0	NC		NC	
7H06-17	166.4	NA	9.49	NA	11.05	5.5	NC		NC	
7H06-18	166.4	NA	9.49	NA	11.05	5.5	NC		NC	
7H06-19	166.4	NA	9.49	NA	11.05	5.0	NC		NC	
7H06-20	166.4	NA	9.49	NA	11.05	6.5	NC		NC	
7H06-21	166.4	NA	9.49	NA	11.05	6.0	NC		NC	
7H06-22	166.4	NA	9.49	NA	11.05	6.0	NC		NC	
7H06-23	166.4	NA	9.49	NA	11.05	5.5	NC		NC	
7H06-24	166.4	NA	9.49	NA	11.05	6.0	NC		NC	
7H06-25	166.4	NA	9.49	NA	11.05	5.5	NC		NC	
7H07	NA	NA	NA	NA	NA	NR	7		0.3	
7H07-01	166.4	NA	9.49	NA	11.05	5.5	NC		NC	
7H07-02	166.4	NA	9.49	NA	11.05	6.0	NC		NC	
7H07-03	166.4	NA	9.49	NA	11.05	5.5	NC		NC	
7H07-04	166.4	NA	9.49	NA	11.05	5.5	NC		NC	
7H07-05	166.4	NA	9.49	NA	11.05	5.5	NC		NC	
7H07-06	166.4	NA	9.49	NA	11.05	5.5	NC		NC	
7H07-07	166.4	NA	9.49	NA	11.05	5.5	NC		NC	
7H07-08	166.4	NA	9.49	NA	11.05	5.5	NC		NC	
7H07-09	166.4	NA	9.49	NA	11.05	5.0	NC		NC	
7H07-10	166.4	NA	9.49	NA	11.05	5.5	NC		NC	
7H07-11	166.4	NA	9.49	NA	11.05	5.5	NC		NC	

APPENDIX C
RADIOLOGICAL DATA (FIDLER SURVEY & MOUND SOIL SCREENING FACILITY) FOR AREA 7

	FIDLER SURVEY DATA						MOUND SOIL SCREENING FACILITY DATA			
SMPID	Contamination Criteria CH1	FIDLER Readings CH1	Contamination Criteria CH2	FIDLER Readings CH2	Contamination Criteria Out Channel	FIDLER Readings Out Channel	Plutonium - 238		Thorium - 232	
	Units: CPM	Units: CPM	Units: KCPM	Units: KCPM	Units: KCPM	Units: KCPM	Units: pCi/g		Units: pCi/g	
	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	Note:	RESULTS	Note:
7H07-12	166.4	NA	9.49	NA	11.05	5.5	NC		NC	
7H07-13	166.4	NA	9.49	NA	11.05	5.5	NC		NC	
7H07-14	166.4	NA	9.49	NA	11.05	5.5	NC		NC	
7H07-15	166.4	NA	9.49	NA	11.05	5.5	NC		NC	
7H07-16	166.4	NA	9.49	NA	11.05	5.5	NC		NC	
7H07-17	166.4	NA	9.49	NA	11.05	5.5	NC		NC	
7H07-18	166.4	NA	9.49	NA	11.05	6.0	NC		NC	
7H07-19	166.4	NA	9.49	NA	11.05	6.0	NC		NC	
7H07-20	166.4	NA	9.49	NA	11.05	5.5	NC		NC	
7H07-21	166.4	NA	9.49	NA	11.05	6.0	NC		NC	
7H07-22	166.4	NA	9.49	NA	11.05	5.5	NC		NC	
7H07-23	166.4	NA	9.49	NA	11.05	5.5	NC		NC	
7H07-24	166.4	NA	9.49	NA	11.05	5.5	NC		NC	
7H07-25	166.4	NA	9.49	NA	11.05	6.0	NC		NC	
7H08	NA	NA	NA	NA	NA	NR	WIPE	b	WIPE	b
7H08-01	166.4	NA	9.49	NA	11.05	6.0	NC		NC	
7H08-02	166.4	NA	9.49	NA	11.05	6.0	NC		NC	
7H08-03	166.4	NA	9.49	NA	11.05	6.0	NC		NC	
7H08-04	166.4	NA	9.49	NA	11.05	5.5	NC		NC	
7H08-05	166.4	NA	9.49	NA	11.05	6.0	NC		NC	
7H08-06	166.4	NA	9.49	NA	11.05	5.5	NC		NC	
7H08-07	166.4	NA	9.49	NA	11.05	6.0	NC		NC	
7H08-08	166.4	NA	9.49	NA	11.05	5.5	NC		NC	
7H08-09	166.4	NA	9.49	NA	11.05	5.5	NC		NC	
7H08-10	166.4	NA	9.49	NA	11.05	6.5	NC		NC	
7H08-11	166.4	NA	9.49	NA	11.05	6.5	NC		NC	
7H08-12	166.4	NA	9.49	NA	11.05	6.5	NC		NC	
7H08-13	166.4	NA	9.49	NA	11.05	6.5	NC		NC	
7H08-14	166.4	NA	9.49	NA	11.05	6.0	NC		NC	
7H08-15	166.4	NA	9.49	NA	11.05	6.0	NC		NC	
7H08-16	166.4	NA	9.49	NA	11.05	6.0	NC		NC	

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RADIOLOGICAL DATA (FIDLER SURVEY & MOUND SOIL SCREENING FACILITY) FOR AREA 7

	FIDLER SURVEY DATA						MOUND SOIL SCREENING FACILITY DATA			
SMPID	Contamination Criteria CH1	FIDLER Readings CH1	Contamination Criteria CH2	FIDLER Readings CH2	Contamination Criteria Out Channel	FIDLER Readings Out Channel	Plutonium - 238		Thorium - 232	
	Units: CPM	Units: CPM	Units: KCPM	Units: KCPM	Units: KCPM	Units: KCPM	Units: pCi/g		Units: pCi/g	
	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	Note:	RESULTS	Note:
7H08-17	166.4	NA	9.49	NA	11.05	6.0	NC		NC	
7H08-18	166.4	NA	9.49	NA	11.05	6.0	NC		NC	
7H08-19	166.4	NA	9.49	NA	11.05	5.5	NC		NC	
7H08-20	166.4	NA	9.49	NA	11.05	5.5	NC		NC	
7H08-21	166.4	NA	9.49	NA	11.05	6.0	NC		NC	
7H08-22	166.4	NA	9.49	NA	11.05	6.0	NC		NC	
7H08-23	166.4	NA	9.49	NA	11.05	5.5	NC		NC	
7H08-24	166.4	NA	9.49	NA	11.05	6.0	NC		NC	
7H08-25	166.4	NA	9.49	NA	11.05	5.5	NC		NC	
7H09	NA	NA	NA	NA	NA	NR	WIPE	b	WIPE	b
7H09-01	166.4	NA	9.49	NA	11.05	6.0	NC		NC	
7H09-02	166.4	NA	9.49	NA	11.05	5.5	NC		NC	
7H09-03	166.4	NA	9.49	NA	11.05	5.5	NC		NC	
7H09-04	166.4	NA	9.49	NA	11.05	5.5	NC		NC	
7H09-05	166.4	NA	9.49	NA	11.05	5.5	NC		NC	
7H09-06	166.4	NA	9.49	NA	11.05	5.5	NC		NC	
7H09-07	166.4	NA	9.49	NA	11.05	5.5	NC		NC	
7H09-08	166.4	NA	9.49	NA	11.05	6.0	NC		NC	
7H09-09	166.4	NA	9.49	NA	11.05	6.0	NC		NC	
7H09-10	166.4	NA	9.49	NA	11.05	5.5	NC		NC	
7H09-11	166.4	NA	9.49	NA	11.05	5.5	NC		NC	
7H09-12	166.4	NA	9.49	NA	11.05	5.5	NC		NC	
7H09-13	166.4	NA	9.49	NA	11.05	5.5	NC		NC	
7H09-14	166.4	NA	9.49	NA	11.05	6.0	NC		NC	
7H09-15	166.4	NA	9.49	NA	11.05	5.5	NC		NC	
7H09-16	166.4	NA	9.49	NA	11.05	5.5	NC		NC	
7H09-17	166.4	NA	9.49	NA	11.05	5.5	NC		NC	
7H09-18	166.4	NA	9.49	NA	11.05	5.5	NC		NC	
7H09-19	166.4	NA	9.49	NA	11.05	5.5	NC		NC	
7H09-20	166.4	NA	9.49	NA	11.05	6.0	NC		NC	
7H09-21	166.4	NA	9.49	NA	11.05	5.5	NC		NC	

APPENDIX C
RADIOLOGICAL DATA (FIDLER SURVEY & MOUND SOIL SCREENING FACILITY) FOR AREA 7

	FIDLER SURVEY DATA						MOUND SOIL SCREENING FACILITY DATA			
SMPID	Contamination Criteria CH1	FIDLER Readings CH1	Contamination Criteria CH2	FIDLER Readings CH2	Contamination Criteria Out Channel	FIDLER Readings Out Channel	Plutonium - 238		Thorium - 232	
	Units: CPM	Units: CPM	Units: KCPM	Units: KCPM	Units: KCPM	Units: KCPM	Units: pCi/g		Units: pCi/g	
	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	Note:	RESULTS	Note:
7H09-22	166.4	NA	9.49	NA	11.05	5.5	NC		NC	
7H09-23	166.4	NA	9.49	NA	11.05	5.5	NC		NC	
7H09-24	166.4	NA	9.49	NA	11.05	5.5	NC		NC	
7H09-25	166.4	NA	9.49	NA	11.05	6.0	NC		NC	
7H10	NA	NA	NA	NA	NA	NR	WIPE	b	WIPE	b
7H10-01	166.4	NA	9.49	NA	11.05	6.0	NC		NC	
7H10-02	166.4	NA	9.49	NA	11.05	6.0	NC		NC	
7H10-03	166.4	NA	9.49	NA	11.05	6.0	NC		NC	
7H10-04	166.4	NA	9.49	NA	11.05	5.5	NC		NC	
7H10-05	166.4	NA	9.49	NA	11.05	5.5	NC		NC	
7H10-06	166.4	NA	9.49	NA	11.05	5.5	NC		NC	
7H10-07	166.4	NA	9.49	NA	11.05	6.0	NC		NC	
7H10-08	166.4	NA	9.49	NA	11.05	6.0	NC		NC	
7H10-09	166.4	NA	9.49	NA	11.05	5.5	NC		NC	
7H10-10	166.4	NA	9.49	NA	11.05	5.5	NC		NC	
7H10-11	166.4	NA	9.49	NA	11.05	5.5	NC		NC	
7H10-12	166.4	NA	9.49	NA	11.05	6.0	NC		NC	
7H10-13	166.4	NA	9.49	NA	11.05	6.0	NC		NC	
7H10-14	166.4	NA	9.49	NA	11.05	5.5	NC		NC	
7H10-15	166.4	NA	9.49	NA	11.05	6.0	NC		NC	
7H10-16	166.4	NA	9.49	NA	11.05	6.0	NC		NC	
7H10-17	166.4	NA	9.49	NA	11.05	5.5	NC		NC	
7H10-18	166.4	NA	9.49	NA	11.05	6.0	NC		NC	
7H10-19	166.4	NA	9.49	NA	11.05	6.0	NC		NC	
7H10-20	166.4	NA	9.49	NA	11.05	6.0	NC		NC	
7H10-21	166.4	NA	9.49	NA	11.05	6.0	NC		NC	
7H10-22	166.4	NA	9.49	NA	11.05	6.0	NC		NC	
7H10-23	166.4	NA	9.49	NA	11.05	6.0	NC		NC	
7H10-24	166.4	NA	9.49	NA	11.05	6.5	NC		NC	
7H10-25	166.4	NA	9.49	NA	11.05	6.5	NC		NC	
7H11	NA	NA	NA	NA	NA	NR	WIPE	b	WIPE	b

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RADIOLOGICAL DATA (FIDLER SURVEY & MOUND SOIL SCREENING FACILITY) FOR AREA 7

	FIDLER SURVEY DATA						MOUND SOIL SCREENING FACILITY DATA			
SMPID	Contamination Criteria CH1	FIDLER Readings CH1	Contamination Criteria CH2	FIDLER Readings CH2	Contamination Criteria Out Channel	FIDLER Readings Out Channel	Plutonium - 238		Thorium - 232	
	Units: CPM	Units: CPM	Units: KCPM	Units: KCPM	Units: KCPM	Units: KCPM	Units: pCi/g		Units: pCi/g	
	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	Note:	RESULTS	Note:
7H11-01	182.0	NA	10.66	NA	11.7	5.0	NC		NC	
7H11-02	182.0	NA	10.66	NA	11.7	5.5	NC		NC	
7H11-03	182.0	NA	10.66	NA	11.7	5.5	NC		NC	
7H11-04	182.0	NA	10.66	NA	11.7	5.5	NC		NC	
7H11-05	182.0	NA	10.66	NA	11.7	5.5	NC		NC	
7H11-06	182.0	NA	10.66	NA	11.7	5.0	NC		NC	
7H11-07	182.0	NA	10.66	NA	11.7	5.5	NC		NC	
7H11-08	182.0	NA	10.66	NA	11.7	5.5	NC		NC	
7H11-09	182.0	NA	10.66	NA	11.7	5.5	NC		NC	
7H11-10	182.0	NA	10.66	NA	11.7	5.5	NC		NC	
7H11-11	182.0	NA	10.66	NA	11.7	5.0	NC		NC	
7H11-12	182.0	NA	10.66	NA	11.7	5.5	NC		NC	
7H11-13	182.0	NA	10.66	NA	11.7	5.5	NC		NC	
7H11-14	182.0	NA	10.66	NA	11.7	5.5	NC		NC	
7H11-15	182.0	NA	10.66	NA	11.7	5.5	NC		NC	
7H11-16	182.0	NA	10.66	NA	11.7	5.5	NC		NC	
7H11-17	182.0	NA	10.66	NA	11.7	5.5	NC		NC	
7H11-18	182.0	NA	10.66	NA	11.7	5.5	NC		NC	
7H11-19	182.0	NA	10.66	NA	11.7	5.5	NC		NC	
7H11-20	182.0	NA	10.66	NA	11.7	5.5	NC		NC	
7H11-21	182.0	NA	10.66	NA	11.7	5.5	NC		NC	
7H11-22	182.0	NA	10.66	NA	11.7	5.5	NC		NC	
7H11-23	182.0	NA	10.66	NA	11.7	5.0	NC		NC	
7H11-24	182.0	NA	10.66	NA	11.7	6.0	NC		NC	
7H11-25	182.0	NA	10.66	NA	11.7	6.0	NC		NC	
7H12	NA	NA	NA	NA	NA	NR	WIPE	b	WIPE	b
7H12-01	182.0	NA	10.66	NA	11.7	5.5	NC		NC	
7H12-02	182.0	NA	10.66	NA	11.7	5.5	NC		NC	
7H12-03	182.0	NA	10.66	NA	11.7	5.5	NC		NC	
7H12-04	182.0	NA	10.66	NA	11.7	5.5	NC		NC	
7H12-05	182.0	NA	10.66	NA	11.7	6.5	NC		NC	

APPENDIX C
RADIOLOGICAL DATA (FIDLER SURVEY & MOUND SOIL SCREENING FACILITY) FOR AREA 7

	FIDLER SURVEY DATA						MOUND SOIL SCREENING FACILITY DATA			
SMPID	Contamination Criteria CH1	FIDLER Readings CH1	Contamination Criteria CH2	FIDLER Readings CH2	Contamination Criteria Out Channel	FIDLER Readings Out Channel	Plutonium - 238		Thorium - 232	
	Units: CPM	Units: CPM	Units: KCPM	Units: KCPM	Units: KCPM	Units: KCPM	Units: pCi/g		Units: pCi/g	
	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	Note:	RESULTS	Note:
7H12-06	182.0	NA	10.66	NA	11.7	8.0	NC		NC	
7H12-07	182.0	NA	10.66	NA	11.7	6.5	NC		NC	
7H12-08	182.0	NA	10.66	NA	11.7	5.5	NC		NC	
7H12-09	182.0	NA	10.66	NA	11.7	5.5	NC		NC	
7H12-10	182.0	NA	10.66	NA	11.7	5.5	NC		NC	
7H12-11	182.0	NA	10.66	NA	11.7	5.5	NC		NC	
7H12-12	182.0	NA	10.66	NA	11.7	5.5	NC		NC	
7H12-13	182.0	NA	10.66	NA	11.7	5.5	NC		NC	
7H12-14	182.0	NA	10.66	NA	11.7	6.5	NC		NC	
7H12-15	182.0	NA	10.66	NA	11.7	8.5	NC		NC	
7H12-16	182.0	NA	10.66	NA	11.7	7.5	NC		NC	
7H12-17	182.0	NA	10.66	NA	11.7	6.5	NC		NC	
7H12-18	182.0	NA	10.66	NA	11.7	5.5	NC		NC	
7H12-19	182.0	NA	10.66	NA	11.7	5.5	NC		NC	
7H12-20	182.0	NA	10.66	NA	11.7	5.0	NC		NC	
7H12-21	182.0	NA	10.66	NA	11.7	5.0	NC		NC	
7H12-22	182.0	NA	10.66	NA	11.7	5.0	NC		NC	
7H12-23	182.0	NA	10.66	NA	11.7	5.5	NC		NC	
7H12-24	182.0	NA	10.66	NA	11.7	6.5	NC		NC	
7H12-25	182.0	NA	10.66	NA	11.7	8.5	NC		NC	
7H13	NA	NA	NA	NA	NA	NR	WIPE	b	WIPE	b
7H13-01	182.0	NA	10.66	NA	11.7	5.5	NC		NC	
7H13-02	182.0	NA	10.66	NA	11.7	5.5	NC		NC	
7H13-03	182.0	NA	10.66	NA	11.7	5.5	NC		NC	
7H13-04	182.0	NA	10.66	NA	11.7	6.5	NC		NC	
7H13-05	182.0	NA	10.66	NA	11.7	8.0	NC		NC	
7H13-06	182.0	NA	10.66	NA	11.7	7.5	NC		NC	
7H13-07	182.0	NA	10.66	NA	11.7	6.0	NC		NC	
7H13-08	182.0	NA	10.66	NA	11.7	5.5	NC		NC	
7H13-09	182.0	NA	10.66	NA	11.7	5.5	NC		NC	
7H13-10	182.0	NA	10.66	NA	11.7	5.5	NC		NC	

APPENDIX C
RADIOLOGICAL DATA (FIDLER SURVEY & MOUND SOIL SCREENING FACILITY) FOR AREA 7

	FIDLER SURVEY DATA						MOUND SOIL SCREENING FACILITY DATA			
SMPID	Contamination Criteria CH1	FIDLER Readings CH1	Contamination Criteria CH2	FIDLER Readings CH2	Contamination Criteria Out Channel	FIDLER Readings Out Channel	Plutonium - 238		Thorium - 232	
	Units: CPM	Units: CPM	Units: KCPM	Units: KCPM	Units: KCPM	Units: KCPM	Units: pCi/g		Units: pCi/g	
	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	Note:	RESULTS	Note:
7H13-11	182.0	NA	10.66	NA	11.7	5.5	NC		NC	
7H13-12	182.0	NA	10.66	NA	11.7	5.5	NC		NC	
7H13-13	182.0	NA	10.66	NA	11.7	5.5	NC		NC	
7H13-14	182.0	NA	10.66	NA	11.7	5.5	NC		NC	
7H13-15	182.0	NA	10.66	NA	11.7	8.0	NC		NC	
7H13-16	182.0	NA	10.66	NA	11.7	7.0	NC		NC	
7H13-17	182.0	NA	10.66	NA	11.7	5.5	NC		NC	
7H13-18	182.0	NA	10.66	NA	11.7	5.5	NC		NC	
7H13-19	182.0	NA	10.66	NA	11.7	5.5	NC		NC	
7H13-20	182.0	NA	10.66	NA	11.7	5.5	NC		NC	
7H13-21	182.0	NA	10.66	NA	11.7	5.5	NC		NC	
7H13-22	182.0	NA	10.66	NA	11.7	5.5	NC		NC	
7H13-23	182.0	NA	10.66	NA	11.7	5.5	NC		NC	
7H13-24	182.0	NA	10.66	NA	11.7	5.5	NC		NC	
7H13-25	182.0	NA	10.66	NA	11.7	6.0	NC		NC	
7H14	NA	NA	NA	NA	NA	NR	WIPE	b	WIPE	b
7H14-01	182.0	NA	10.66	NA	11.7	5.5	NC		NC	
7H14-02	182.0	NA	10.66	NA	11.7	5.5	NC		NC	
7H14-03	182.0	NA	10.66	NA	11.7	5.5	NC		NC	
7H14-04	182.0	NA	10.66	NA	11.7	5.5	NC		NC	
7H14-05	182.0	NA	10.66	NA	11.7	7.0	NC		NC	
7H14-06	182.0	NA	10.66	NA	11.7	7.0	NC		NC	
7H14-07	182.0	NA	10.66	NA	11.7	5.5	NC		NC	
7H14-08	182.0	NA	10.66	NA	11.7	5.5	NC		NC	
7H14-09	182.0	NA	10.66	NA	11.7	5.5	NC		NC	
7H14-10	182.0	NA	10.66	NA	11.7	5.5	NC		NC	
7H14-11	182.0	NA	10.66	NA	11.7	5.5	NC		NC	
7H14-12	182.0	NA	10.66	NA	11.7	5.5	NC		NC	
7H14-13	182.0	NA	10.66	NA	11.7	5.5	NC		NC	
7H14-14	182.0	NA	10.66	NA	11.7	5.5	NC		NC	
7H14-15	182.0	NA	10.66	NA	11.7	7.5	NC		NC	

APPENDIX C
RADIOLOGICAL DATA (FIDLER SURVEY & MOUND SOIL SCREENING FACILITY) FOR AREA 7

	FIDLER SURVEY DATA						MOUND SOIL SCREENING FACILITY DATA			
SMPID	Contamination Criteria CH1	FIDLER Readings CH1	Contamination Criteria CH2	FIDLER Readings CH2	Contamination Criteria Out Channel	FIDLER Readings Out Channel	Plutonium - 238		Thorium - 232	
	Units: CPM	Units: CPM	Units: KCPM	Units: KCPM	Units: KCPM	Units: KCPM	Units: pCi/g		Units: pCi/g	
	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	Note:	RESULTS	Note:
7H14-16	182.0	NA	10.66	NA	11.7	6.5	NC		NC	
7H14-17	182.0	NA	10.66	NA	11.7	6.0	NC		NC	
7H14-18	182.0	NA	10.66	NA	11.7	5.5	NC		NC	
7H14-19	182.0	NA	10.66	NA	11.7	5.5	NC		NC	
7H14-20	182.0	NA	10.66	NA	11.7	5.5	NC		NC	
7H14-21	182.0	NA	10.66	NA	11.7	6.0	NC		NC	
7H14-22	182.0	NA	10.66	NA	11.7	5.5	NC		NC	
7H14-23	182.0	NA	10.66	NA	11.7	5.5	NC		NC	
7H14-24	182.0	NA	10.66	NA	11.7	5.5	NC		NC	
7H14-25	182.0	NA	10.66	NA	11.7	8.0	NC		NC	
7H15	NA	NA	NA	NA	NA	NR	WIPE	b	WIPE	b
7I05	NA	NA	NA	NA	NA	NR	WIPE	b	WIPE	b
7I05-01	166.4	NA	9.49	NA	11.05	5.5	NC		NC	
7I05-02	166.4	NA	9.49	NA	11.05	5.5	NC		NC	
7I05-03	166.4	NA	9.49	NA	11.05	5.5	NC		NC	
7I05-04	166.4	NA	9.49	NA	11.05	5.5	NC		NC	
7I05-05	166.4	NA	9.49	NA	11.05	6.0	NC		NC	
7I05-06	166.4	NA	9.49	NA	11.05	6.0	NC		NC	
7I05-07	166.4	NA	9.49	NA	11.05	6.0	NC		NC	
7I05-08	166.4	NA	9.49	NA	11.05	6.0	NC		NC	
7I05-09	166.4	NA	9.49	NA	11.05	5.5	NC		NC	
7I05-10	166.4	NA	9.49	NA	11.05	5.0	NC		NC	
7I05-11	166.4	NA	9.49	NA	11.05	5.5	NC		NC	
7I05-12	166.4	NA	9.49	NA	11.05	5.5	NC		NC	
7I05-13	166.4	NA	9.49	NA	11.05	5.5	NC		NC	
7I05-14	166.4	NA	9.49	NA	11.05	6.0	NC		NC	
7I05-15	166.4	NA	9.49	NA	11.05	6.0	NC		NC	
7I05-16	166.4	NA	9.49	NA	11.05	6.0	NC		NC	
7I05-17	166.4	NA	9.49	NA	11.05	5.5	NC		NC	
7I05-18	166.4	NA	9.49	NA	11.05	5.5	NC		NC	
7I05-19	166.4	NA	9.49	NA	11.05	5.5	NC		NC	

APPENDIX C
RADIOLOGICAL DATA (FIDLER SURVEY & MOUND SOIL SCREENING FACILITY) FOR AREA 7

	FIDLER SURVEY DATA						MOUND SOIL SCREENING FACILITY DATA			
SMPID	Contamination Criteria CH1	FIDLER Readings CH1	Contamination Criteria CH2	FIDLER Readings CH2	Contamination Criteria Out Channel	FIDLER Readings Out Channel	Plutonium - 238		Thorium - 232	
	Units: CPM	Units: CPM	Units: KCPM	Units: KCPM	Units: KCPM	Units: KCPM	Units: pCi/g		Units: pCi/g	
	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	Note:	RESULTS	Note:
7105-20	166.4	NA	9.49	NA	11.05	5.5	NC		NC	
7105-21	166.4	NA	9.49	NA	11.05	5.0	NC		NC	
7105-22	166.4	NA	9.49	NA	11.05	5.5	NC		NC	
7105-23	166.4	NA	9.49	NA	11.05	6.0	NC		NC	
7105-24	166.4	NA	9.49	NA	11.05	5.5	NC		NC	
7105-25	166.4	NA	9.49	NA	11.05	6.0	NC		NC	
7106	NA	NA	NA	NA	NA	NR	WIPE	b	WIPE	b
7106-01	166.4	NA	9.49	NA	11.05	6.0	NC		NC	
7106-02	166.4	NA	9.49	NA	11.05	6.0	NC		NC	
7106-03	166.4	NA	9.49	NA	11.05	6.0	NC		NC	
7106-04	166.4	NA	9.49	NA	11.05	6.0	NC		NC	
7106-05	166.4	NA	9.49	NA	11.05	6.0	NC		NC	
7106-06	166.4	NA	9.49	NA	11.05	6.5	NC		NC	
7106-07	166.4	NA	9.49	NA	11.05	6.0	NC		NC	
7106-08	166.4	NA	9.49	NA	11.05	5.5	NC		NC	
7106-09	166.4	NA	9.49	NA	11.05	5.5	NC		NC	
7106-10	166.4	NA	9.49	NA	11.05	6.0	NC		NC	
7106-11	166.4	NA	9.49	NA	11.05	6.0	NC		NC	
7106-12	166.4	NA	9.49	NA	11.05	6.0	NC		NC	
7106-13	166.4	NA	9.49	NA	11.05	5.5	NC		NC	
7106-14	166.4	NA	9.49	NA	11.05	6.0	NC		NC	
7106-15	166.4	NA	9.49	NA	11.05	6.0	NC		NC	
7106-16	166.4	NA	9.49	NA	11.05	6.0	NC		NC	
7106-17	166.4	NA	9.49	NA	11.05	5.5	NC		NC	
7106-18	166.4	NA	9.49	NA	11.05	5.5	NC		NC	
7106-19	166.4	NA	9.49	NA	11.05	5.5	NC		NC	
7106-20	166.4	NA	9.49	NA	11.05	5.5	NC		NC	
7106-21	166.4	NA	9.49	NA	11.05	5.5	NC		NC	
7106-22	166.4	NA	9.49	NA	11.05	5.5	NC		NC	
7106-23	166.4	NA	9.49	NA	11.05	6.0	NC		NC	
7106-24	166.4	NA	9.49	NA	11.05	6.0	NC		NC	

APPENDIX C
RADIOLOGICAL DATA (FIDLER SURVEY & MOUND SOIL SCREENING FACILITY) FOR AREA 7

	FIDLER SURVEY DATA						MOUND SOIL SCREENING FACILITY DATA			
SMPID	Contamination Criteria CH1	FIDLER Readings CH1	Contamination Criteria CH2	FIDLER Readings CH2	Contamination Criteria Out Channel	FIDLER Readings Out Channel	Plutonium - 238		Thorium - 232	
	Units: CPM	Units: CPM	Units: KCPM	Units: KCPM	Units: KCPM	Units: KCPM	Units: pCi/g		Units: pCi/g	
	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	Note:	RESULTS	Note:
7106-25	166.4	NA	9.49	NA	11.05	5.5	NC		NC	
7107	NA	NA	NA	NA	NA	NR	WIPE	b	WIPE	b
7107-01	166.4	NA	9.49	NA	11.05	5.5	NC		NC	
7107-02	166.4	NA	9.49	NA	11.05	5.5	NC		NC	
7107-03	166.4	NA	9.49	NA	11.05	5.0	NC		NC	
7107-04	166.4	NA	9.49	NA	11.05	5.5	NC		NC	
7107-05	166.4	NA	9.49	NA	11.05	6.0	NC		NC	
7107-06	166.4	NA	9.49	NA	11.05	5.5	NC		NC	
7107-07	166.4	NA	9.49	NA	11.05	5.5	NC		NC	
7107-08	166.4	NA	9.49	NA	11.05	5.5	NC		NC	
7107-09	166.4	NA	9.49	NA	11.05	5.5	NC		NC	
7107-10	166.4	NA	9.49	NA	11.05	5.0	NC		NC	
7107-11	166.4	NA	9.49	NA	11.05	5.5	NC		NC	
7107-12	166.4	NA	9.49	NA	11.05	5.5	NC		NC	
7107-13	166.4	NA	9.49	NA	11.05	5.5	NC		NC	
7107-14	166.4	NA	9.49	NA	11.05	6.0	NC		NC	
7107-15	166.4	NA	9.49	NA	11.05	6.0	NC		NC	
7107-16	166.4	NA	9.49	NA	11.05	5.5	NC		NC	
7107-17	166.4	NA	9.49	NA	11.05	5.5	NC		NC	
7107-18	166.4	NA	9.49	NA	11.05	5.5	NC		NC	
7107-19	166.4	NA	9.49	NA	11.05	5.0	NC		NC	
7107-20	166.4	NA	9.49	NA	11.05	5.5	NC		NC	
7107-21	166.4	NA	9.49	NA	11.05	5.5	NC		NC	
7107-22	166.4	NA	9.49	NA	11.05	5.5	NC		NC	
7107-23	166.4	NA	9.49	NA	11.05	5.5	NC		NC	
7107-24	166.4	NA	9.49	NA	11.05	5.5	NC		NC	
7107-25	166.4	NA	9.49	NA	11.05	6.0	NC		NC	
7108	NA	NA	NA	NA	NA	NR	WIPE	b	WIPE	b
7108-01	166.4	NA	9.49	NA	11.05	6.0	NC		NC	
7108-02	166.4	NA	9.49	NA	11.05	6.0	NC		NC	
7108-03	166.4	NA	9.49	NA	11.05	6.0	NC		NC	

APPENDIX C
RADIOLOGICAL DATA (FIDLER SURVEY & MOUND SOIL SCREENING FACILITY) FOR AREA 7

	FIDLER SURVEY DATA						MOUND SOIL SCREENING FACILITY DATA			
SMPID	Contamination Criteria CH1	FIDLER Readings CH1	Contamination Criteria CH2	FIDLER Readings CH2	Contamination Criteria Out Channel	FIDLER Readings Out Channel	Plutonium - 238		Thorium - 232	
	Units: CPM	Units: CPM	Units: KCPM	Units: KCPM	Units: KCPM	Units: KCPM	Units: pCi/g		Units: pCi/g	
	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	Note:	RESULTS	Note:
7108-04	166.4	NA	9.49	NA	11.05	6.0	NC		NC	
7108-05	166.4	NA	9.49	NA	11.05	6.0	NC		NC	
7108-06	166.4	NA	9.49	NA	11.05	5.5	NC		NC	
7108-07	166.4	NA	9.49	NA	11.05	5.5	NC		NC	
7108-08	166.4	NA	9.49	NA	11.05	6.0	NC		NC	
7108-09	166.4	NA	9.49	NA	11.05	6.0	NC		NC	
7108-10	166.4	NA	9.49	NA	11.05	6.0	NC		NC	
7108-11	166.4	NA	9.49	NA	11.05	6.0	NC		NC	
7108-12	166.4	NA	9.49	NA	11.05	5.5	NC		NC	
7108-13	166.4	NA	9.49	NA	11.05	5.5	NC		NC	
7108-14	166.4	NA	9.49	NA	11.05	6.0	NC		NC	
7108-15	166.4	NA	9.49	NA	11.05	5.5	NC		NC	
7108-16	166.4	NA	9.49	NA	11.05	5.5	NC		NC	
7108-17	166.4	NA	9.49	NA	11.05	6.0	NC		NC	
7108-18	166.4	NA	9.49	NA	11.05	6.0	NC		NC	
7108-19	166.4	NA	9.49	NA	11.05	6.0	NC		NC	
7108-20	166.4	NA	9.49	NA	11.05	5.5	NC		NC	
7108-21	166.4	NA	9.49	NA	11.05	6.0	NC		NC	
7108-22	166.4	NA	9.49	NA	11.05	6.0	NC		NC	
7108-23	166.4	NA	9.49	NA	11.05	6.0	NC		NC	
7108-24	166.4	NA	9.49	NA	11.05	5.5	NC		NC	
7108-25	166.4	NA	9.49	NA	11.05	5.5	NC		NC	
7109	NA	NA	NA	NA	NA	NR	WIPE	b	WIPE	b
7109-01	166.4	NA	9.49	NA	11.05	5.0	NC		NC	
7109-02	166.4	NA	9.49	NA	11.05	5.5	NC		NC	
7109-03	166.4	NA	9.49	NA	11.05	5.5	NC		NC	
7109-04	166.4	NA	9.49	NA	11.05	5.0	NC		NC	
7109-05	166.4	NA	9.49	NA	11.05	6.0	NC		NC	
7109-06	166.4	NA	9.49	NA	11.05	6.0	NC		NC	
7109-07	166.4	NA	9.49	NA	11.05	5.5	NC		NC	
7109-08	166.4	NA	9.49	NA	11.05	6.0	NC		NC	

APPENDIX C
RADIOLOGICAL DATA (FIDLER SURVEY & MOUND SOIL SCREENING FACILITY) FOR AREA 7

	FIDLER SURVEY DATA						MOUND SOIL SCREENING FACILITY DATA			
SMPID	Contamination Criteria CH1	FIDLER Readings CH1	Contamination Criteria CH2	FIDLER Readings CH2	Contamination Criteria Out Channel	FIDLER Readings Out Channel	Plutonium - 238		Thorium - 232	
	Units: CPM	Units: CPM	Units: KCPM	Units: KCPM	Units: KCPM	Units: KCPM	Units: pCi/g		Units: pCi/g	
	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	Note:	RESULTS	Note:
7I09-09	166.4	NA	9.49	NA	11.05	5.5	NC		NC	
7I09-10	166.4	NA	9.49	NA	11.05	5.5	NC		NC	
7I09-11	166.4	NA	9.49	NA	11.05	5.0	NC		NC	
7I09-12	166.4	NA	9.49	NA	11.05	5.0	NC		NC	
7I09-13	166.4	NA	9.49	NA	11.05	5.0	NC		NC	
7I09-14	166.4	NA	9.49	NA	11.05	5.5	NC		NC	
7I09-15	166.4	NA	9.49	NA	11.05	5.5	NC		NC	
7I09-16	166.4	NA	9.49	NA	11.05	5.0	NC		NC	
7I09-17	166.4	NA	9.49	NA	11.05	5.0	NC		NC	
7I09-18	166.4	NA	9.49	NA	11.05	5.0	NC		NC	
7I09-19	166.4	NA	9.49	NA	11.05	5.0	NC		NC	
7I09-20	166.4	NA	9.49	NA	11.05	5.0	NC		NC	
7I09-21	166.4	NA	9.49	NA	11.05	5.0	NC		NC	
7I09-22	166.4	NA	9.49	NA	11.05	5.0	NC		NC	
7I09-23	166.4	NA	9.49	NA	11.05	6.0	NC		NC	
7I09-24	166.4	NA	9.49	NA	11.05	6.0	NC		NC	
7I09-25	166.4	NA	9.49	NA	11.05	7.0	NC		NC	
7I10	NA	NA	NA	NA	NA	NR	11		0	
7I10-01	182.0	NA	10.66	NA	11.7	4.5	NC		NC	
7I10-02	182.0	NA	10.66	NA	11.7	5.5	NC		NC	
7I10-03	182.0	NA	10.66	NA	11.7	5.5	NC		NC	
7I10-04	182.0	NA	10.66	NA	11.7	5.5	NC		NC	
7I10-05	182.0	NA	10.66	NA	11.7	6.0	NC		NC	
7I10-06	182.0	NA	10.66	NA	11.7	7.5	NC		NC	
7I10-07	182.0	NA	10.66	NA	11.7	7.5	NC		NC	
7I10-08	182.0	NA	10.66	NA	11.7	6.0	NC		NC	
7I10-09	182.0	NA	10.66	NA	11.7	5.0	NC		NC	
7I10-10	182.0	NA	10.66	NA	11.7	4.0	NC		NC	
7I10-11	182.0	NA	10.66	NA	11.7	6.0	NC		NC	
7I10-12	182.0	NA	10.66	NA	11.7	6.0	NC		NC	
7I10-13	182.0	NA	10.66	NA	11.7	6.0	NC		NC	

APPENDIX C
RADIOLOGICAL DATA (FIDLER SURVEY & MOUND SOIL SCREENING FACILITY) FOR AREA 7

	FIDLER SURVEY DATA						MOUND SOIL SCREENING FACILITY DATA			
SMPID	Contamination Criteria CH1	FIDLER Readings CH1	Contamination Criteria CH2	FIDLER Readings CH2	Contamination Criteria Out Channel	FIDLER Readings Out Channel	Plutonium - 238		Thorium - 232	
	Units: CPM	Units: CPM	Units: KCPM	Units: KCPM	Units: KCPM	Units: KCPM	Units: pCi/g		Units: pCi/g	
	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	Note:	RESULTS	Note:
7110-14	182.0	NA	10.66	NA	11.7	7.0	NC		NC	
7110-15	182.0	NA	10.66	NA	11.7	7.5	NC		NC	
7110-16	182.0	NA	10.66	NA	11.7	8.0	NC		NC	
7110-17	182.0	NA	10.66	NA	11.7	7.5	NC		NC	
7110-18	182.0	NA	10.66	NA	11.7	6.5	NC		NC	
7110-19	182.0	NA	10.66	NA	11.7	6.5	NC		NC	
7110-20	182.0	NA	10.66	NA	11.7	6.5	NC		NC	
7110-21	182.0	NA	10.66	NA	11.7	6.5	NC		NC	
7110-22	182.0	NA	10.66	NA	11.7	7.5	NC		NC	
7110-23	182.0	NA	10.66	NA	11.7	7.5	NC		NC	
7110-24	182.0	NA	10.66	NA	11.7	6.5	NC		NC	
7110-25	182.0	NA	10.66	NA	11.7	6.5	NC		NC	
7111	NA	NA	NA	NA	NA	NR	22		0.5	
7111-01	182.0	NA	10.66	NA	11.7	6.0	NC		NC	
7111-02	182.0	NA	10.66	NA	11.7	6.5	NC		NC	
7111-03	182.0	NA	10.66	NA	11.7	7.0	NC		NC	
7111-04	182.0	NA	10.66	NA	11.7	8.0	NC		NC	
7111-05	182.0	NA	10.66	NA	11.7	7.5	NC		NC	
7111-06	182.0	NA	10.66	NA	11.7	7.0	NC		NC	
7111-07	182.0	NA	10.66	NA	11.7	8.5	NC		NC	
7111-08	182.0	NA	10.66	NA	11.7	8.5	NC		NC	
7111-09	182.0	NA	10.66	NA	11.7	6.5	NC		NC	
7111-10	182.0	NA	10.66	NA	11.7	6.0	NC		NC	
7111-11	182.0	NA	10.66	NA	11.7	6.0	NC		NC	
7111-12	182.0	NA	10.66	NA	11.7	6.5	NC		NC	
7111-13	182.0	NA	10.66	NA	11.7	7.5	NC		NC	
7111-14	182.0	NA	10.66	NA	11.7	8.0	NC		NC	
7111-15	182.0	NA	10.66	NA	11.7	7.5	NC		NC	
7111-16	182.0	NA	10.66	NA	11.7	6.0	NC		NC	
7111-17	182.0	NA	10.66	NA	11.7	6.0	NC		NC	
7111-18	182.0	NA	10.66	NA	11.7	6.0	NC		NC	

APPENDIX C

RADIOLOGICAL DATA (FIDLER SURVEY & MOUND SOIL SCREENING FACILITY) FOR AREA 7

	FIDLER SURVEY DATA						MOUND SOIL SCREENING FACILITY DATA			
SMPID	Contamination Criteria CH1	FIDLER Readings CH1	Contamination Criteria CH2	FIDLER Readings CH2	Contamination Criteria Out Channel	FIDLER Readings Out Channel	Plutonium - 238		Thorium - 232	
	Units: CPM	Units: CPM	Units: KCPM	Units: KCPM	Units: KCPM	Units: KCPM	Units: pCi/g		Units: pCi/g	
	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	Note:	RESULTS	Note:
7111-19	182.0	NA	10.66	NA	11.7	6.0	NC		NC	
7111-20	182.0	NA	10.66	NA	11.7	5.5	NC		NC	
7111-21	182.0	NA	10.66	NA	11.7	6.0	NC		NC	
7111-22	182.0	NA	10.66	NA	11.7	5.5	NC		NC	
7111-23	182.0	NA	10.66	NA	11.7	5.5	NC		NC	
7111-24	182.0	NA	10.66	NA	11.7	5.5	NC		NC	
7111-25	182.0	NA	10.66	NA	11.7	6.0	NC		NC	
7112	NA	NA	NA	NA	NA	NR	15		0.9	
7112-01	182.0	NA	10.66	NA	11.7	8.0	NC		NC	
7112-02	182.0	NA	10.66	NA	11.7	7.0	NC		NC	
7112-03	182.0	NA	10.66	NA	11.7	6.5	NC		NC	
7112-04	182.0	NA	10.66	NA	11.7	6.5	NC		NC	
7112-05	182.0	NA	10.66	NA	11.7	6.0	NC		NC	
7112-06	182.0	NA	10.66	NA	11.7	6.5	NC		NC	
7112-07	182.0	NA	10.66	NA	11.7	6.5	NC		NC	
7112-08	182.0	NA	10.66	NA	11.7	7.0	NC		NC	
7112-09	182.0	NA	10.66	NA	11.7	7.5	NC		NC	
7112-10	182.0	NA	10.66	NA	11.7	8.0	NC		NC	
7112-11	182.0	NA	10.66	NA	11.7	8.0	NC		NC	
7112-12	182.0	NA	10.66	NA	11.7	8.0	NC		NC	
7112-13	182.0	NA	10.66	NA	11.7	7.0	NC		NC	
7112-14	182.0	NA	10.66	NA	11.7	6.5	NC		NC	
7112-15	182.0	NA	10.66	NA	11.7	6.5	NC		NC	
7112-16	182.0	NA	10.66	NA	11.7	7.5	NC		NC	
7112-17	182.0	NA	10.66	NA	11.7	7.0	NC		NC	
7112-18	182.0	NA	10.66	NA	11.7	8.0	NC		NC	
7112-19	182.0	NA	10.66	NA	11.7	7.5	NC		NC	
7112-20	182.0	NA	10.66	NA	11.7	7.5	NC		NC	
7112-21	182.0	NA	10.66	NA	11.7	8.0	NC		NC	
7112-22	182.0	NA	10.66	NA	11.7	8.5	NC		NC	
7112-23	182.0	NA	10.66	NA	11.7	8.0	NC		NC	

APPENDIX C
RADIOLOGICAL DATA (FIDLER SURVEY & MOUND SOIL SCREENING FACILITY) FOR AREA 7

	FIDLER SURVEY DATA						MOUND SOIL SCREENING FACILITY DATA			
SMPID	Contamination Criteria CH1	FIDLER Readings CH1	Contamination Criteria CH2	FIDLER Readings CH2	Contamination Criteria Out Channel	FIDLER Readings Out Channel	Plutonium - 238		Thorium - 232	
	Units: CPM	Units: CPM	Units: KCPM	Units: KCPM	Units: KCPM	Units: KCPM	Units: pCi/g		Units: pCi/g	
	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	Note:	RESULTS	Note:
7112-24	182.0	NA	10.66	NA	11.7	7.0	NC		NC	
7112-25	182.0	NA	10.66	NA	11.7	7.0	NC		NC	
7113	NA	NA	NA	NA	NA	NR	22		1.2	
7113-01	182.0	NA	10.66	NA	11.7	8.5	NC		NC	
7113-02	182.0	NA	10.66	NA	11.7	8.5	NC		NC	
7113-03	182.0	NA	10.66	NA	11.7	8.5	NC		NC	
7113-04	182.0	NA	10.66	NA	11.7	7.5	NC		NC	
7113-05	182.0	NA	10.66	NA	11.7	7.0	NC		NC	
7113-06	182.0	NA	10.66	NA	11.7	8.5	NC		NC	
7113-07	182.0	NA	10.66	NA	11.7	8.0	NC		NC	
7113-08	182.0	NA	10.66	NA	11.7	9.0	NC		NC	
7113-09	182.0	NA	10.66	NA	11.7	8.5	NC		NC	
7113-10	182.0	NA	10.66	NA	11.7	8.5	NC		NC	
7113-11	182.0	NA	10.66	NA	11.7	8.0	NC		NC	
7113-12	182.0	NA	10.66	NA	11.7	8.5	NC		NC	
7113-13	182.0	NA	10.66	NA	11.7	8.5	NC		NC	
7113-14	182.0	NA	10.66	NA	11.7	8.5	NC		NC	
7113-15	182.0	NA	10.66	NA	11.7	8.0	NC		NC	
7113-16	182.0	NA	10.66	NA	11.7	8.5	NC		NC	
7113-17	182.0	NA	10.66	NA	11.7	8.5	NC		NC	
7113-18	182.0	NA	10.66	NA	11.7	9.5	NC		NC	
7113-19	182.0	NA	10.66	NA	11.7	8.5	NC		NC	
7113-20	182.0	NA	10.66	NA	11.7	8.0	NC		NC	
7113-21	182.0	NA	10.66	NA	11.7	8.5	NC		NC	
7113-22	182.0	NA	10.66	NA	11.7	8.5	NC		NC	
7113-23	182.0	NA	10.66	NA	11.7	8.5	NC		NC	
7113-24	182.0	NA	10.66	NA	11.7	8.5	NC		NC	
7113-25	182.0	NA	10.66	NA	11.7	8.0	NC		NC	
7114	NA	NA	NA	NA	NA	NR	10		1.1	
7114-01	182.0	NA	10.66	NA	11.7	7.5	NC		NC	
7114-02	182.0	NA	10.66	NA	11.7	8.5	NC		NC	

APPENDIX C
RADIOLOGICAL DATA (FIDLER SURVEY & MOUND SOIL SCREENING FACILITY) FOR AREA 7

	FIDLER SURVEY DATA						MOUND SOIL SCREENING FACILITY DATA			
SMPID	Contamination Criteria CH1	FIDLER Readings CH1	Contamination Criteria CH2	FIDLER Readings CH2	Contamination Criteria Out Channel	FIDLER Readings Out Channel	Plutonium - 238		Thorium - 232	
	Units: CPM	Units: CPM	Units: KCPM	Units: KCPM	Units: KCPM	Units: KCPM	Units: pCi/g		Units: pCi/g	
	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	Note:	RESULTS	Note:
7I14-03	182.0	NA	10.66	NA	11.7	5.5	NC		NC	
7I14-04	182.0	NA	10.66	NA	11.7	5.5	NC		NC	
7I14-05	182.0	NA	10.66	NA	11.7	8.5	NC		NC	
7I14-06	182.0	NA	10.66	NA	11.7	8.5	NC		NC	
7I14-07	182.0	NA	10.66	NA	11.7	4.5	NC		NC	
7I14-08	182.0	NA	10.66	NA	11.7	5.5	NC		NC	
7I14-09	182.0	NA	10.66	NA	11.7	8.5	NC		NC	
7I14-10	182.0	NA	10.66	NA	11.7	6.5	NC		NC	
7I14-11	182.0	NA	10.66	NA	11.7	8.0	NC		NC	
7I14-12	182.0	NA	10.66	NA	11.7	8.5	NC		NC	
7I14-13	182.0	NA	10.66	NA	11.7	8.5	NC		NC	
7I14-14	182.0	NA	10.66	NA	11.7	8.5	NC		NC	
7I14-15	182.0	NA	10.66	NA	11.7	8.5	NC		NC	
7I14-16	182.0	NA	10.66	NA	11.7	8.0	NC		NC	
7I14-17	182.0	NA	10.66	NA	11.7	7.5	NC		NC	
7I14-18	182.0	NA	10.66	NA	11.7	8.5	NC		NC	
7I14-19	182.0	NA	10.66	NA	11.7	8.5	NC		NC	
7I14-20	182.0	NA	10.66	NA	11.7	8.0	NC		NC	
7I14-21	182.0	NA	10.66	NA	11.7	8.0	NC		NC	
7I14-22	182.0	NA	10.66	NA	11.7	8.0	NC		NC	
7I14-23	182.0	NA	10.66	NA	11.7	8.5	NC		NC	
7I14-24	182.0	NA	10.66	NA	11.7	7.0	NC		NC	
7I14-25	182.0	NA	10.66	NA	11.7	7.5	NC		NC	
7I15	NA	NA	NA	NA	NA	NR	12		1.4	
7J05	NA	NA	NA	NA	NA	NR	4		0.3	
7J05-01	202.8	NA	12.22	NA	13.0	7.5	NC		NC	
7J05-02	202.8	NA	12.22	NA	13.0	8.0	NC		NC	
7J05-03	202.8	NA	12.22	NA	13.0	7.5	NC		NC	
7J05-04	202.8	NA	12.22	NA	13.0	7.5	NC		NC	
7J05-05	202.8	NA	12.22	NA	13.0	7.5	NC		NC	
7J05-06	202.8	NA	12.22	NA	13.0	7.5	NC		NC	

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RADIOLOGICAL DATA (FIDLER SURVEY & MOUND SOIL SCREENING FACILITY) FOR AREA 7

	FIDLER SURVEY DATA						MOUND SOIL SCREENING FACILITY DATA			
SMPID	Contamination Criteria CH1	FIDLER Readings CH1	Contamination Criteria CH2	FIDLER Readings CH2	Contamination Criteria Out Channel	FIDLER Readings Out Channel	Plutonium - 238		Thorium - 232	
	Units: CPM	Units: CPM	Units: KCPM	Units: KCPM	Units: KCPM	Units: KCPM	Units: pCi/g		Units: pCi/g	
	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	Note:	RESULTS	Note:
7J05-07	201.5	NA	12.22	NA	13.0	7.0	NC		NC	
7J05-08	201.5	NA	12.22	NA	13.0	7.0	NC		NC	
7J05-09	201.5	NA	12.22	NA	13.0	7.5	NC		NC	
7J05-10	201.5	NA	12.22	NA	13.0	7.0	NC		NC	
7J05-11	201.5	NA	12.22	NA	13.0	8.5	NC		NC	
7J05-12	201.5	NA	12.22	NA	13.0	8.0	NC		NC	
7J05-13	201.5	NA	12.22	NA	13.0	7.5	NC		NC	
7J05-14	201.5	NA	12.22	NA	13.0	7.5	NC		NC	
7J05-15	201.5	NA	12.22	NA	13.0	8.0	NC		NC	
7J05-16	201.5	NA	12.22	NA	13.0	8.0	NC		NC	
7J05-17	201.5	NA	12.22	NA	13.0	7.5	NC		NC	
7J05-18	201.5	NA	12.22	NA	13.0	7.5	NC		NC	
7J05-19	201.5	NA	12.22	NA	13.0	8.0	NC		NC	
7J05-20	201.5	NA	12.22	NA	13.0	6.5	NC		NC	
7J05-21	201.5	NA	12.22	NA	13.0	7.0	NC		NC	
7J05-22	201.5	NA	12.22	NA	13.0	8.5	NC		NC	
7J05-23	201.5	NA	12.22	NA	13.0	7.5	NC		NC	
7J05-24	201.5	NA	12.22	NA	13.0	7.0	NC		NC	
7J05-25	201.5	NA	12.22	NA	13.0	7.5	NC		NC	
7J06	NA	NA	NA	NA	NA	NR	WIPE	b	WIPE	b
7J06-01	202.8	NA	12.22	NA	13.0	6.5	NC		NC	
7J06-02	202.8	NA	12.22	NA	13.0	7.5	NC		NC	
7J06-03	202.8	NA	12.22	NA	13.0	7.5	NC		NC	
7J06-04	202.8	NA	12.22	NA	13.0	7.5	NC		NC	
7J06-05	202.8	NA	12.22	NA	13.0	7.5	NC		NC	
7J06-06	202.8	NA	12.22	NA	13.0	7.5	NC		NC	
7J06-07	202.8	NA	12.22	NA	13.0	8.0	NC		NC	
7J06-08	202.8	NA	12.22	NA	13.0	10.0	NC		NC	
7J06-09	202.8	NA	12.22	NA	13.0	8.0	NC		NC	
7J06-10	202.8	NA	12.22	NA	13.0	6.0	NC		NC	
7J06-11	202.8	NA	12.22	NA	13.0	6.0	NC		NC	

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RADIOLOGICAL DATA (FIDLER SURVEY & MOUND SOIL SCREENING FACILITY) FOR AREA 7

	FIDLER SURVEY DATA						MOUND SOIL SCREENING FACILITY DATA			
SMPID	Contamination Criteria CH1	FIDLER Readings CH1	Contamination Criteria CH2	FIDLER Readings CH2	Contamination Criteria Out Channel	FIDLER Readings Out Channel	Plutonium - 238		Thorium - 232	
	Units: CPM	Units: CPM	Units: KCPM	Units: KCPM	Units: KCPM	Units: KCPM	Units: pCi/g		Units: pCi/g	
	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	Note:	RESULTS	Note:
7J06-12	202.8	NA	12.22	NA	13.0	8.0	NC		NC	
7J06-13	202.8	NA	12.22	NA	13.0	8.0	NC		NC	
7J06-14	202.8	NA	12.22	NA	13.0	7.0	NC		NC	
7J06-15	202.8	NA	12.22	NA	13.0	7.0	NC		NC	
7J06-16	202.8	NA	12.22	NA	13.0	7.0	NC		NC	
7J06-17	202.8	NA	12.22	NA	13.0	8.0	NC		NC	
7J06-18	202.8	NA	12.22	NA	13.0	8.5	NC		NC	
7J06-19	202.8	NA	12.22	NA	13.0	6.5	NC		NC	
7J06-20	202.8	NA	12.22	NA	13.0	6.0	NC		NC	
7J06-21	202.8	NA	12.22	NA	13.0	6.5	NC		NC	
7J06-22	202.8	NA	12.22	NA	13.0	7.0	NC		NC	
7J06-23	202.8	NA	12.22	NA	13.0	8.0	NC		NC	
7J06-24	202.8	NA	12.22	NA	13.0	7.5	NC		NC	
7J06-25	202.8	NA	12.22	NA	13.0	7.5	NC		NC	
7J07	NA	NA	NA	NA	NA	NR	WIPE	b	WIPE	b
7J07-01	202.8	NA	12.22	NA	13.0	6.5	NC		NC	
7J07-02	202.8	NA	12.22	NA	13.0	6.5	NC		NC	
7J07-03	202.8	NA	12.22	NA	13.0	7.0	NC		NC	
7J07-04	202.8	NA	12.22	NA	13.0	8.0	NC		NC	
7J07-05	202.8	NA	12.22	NA	13.0	8.0	NC		NC	
7J07-06	202.8	NA	12.22	NA	13.0	8.5	NC		NC	
7J07-07	202.8	NA	12.22	NA	13.0	8.0	NC		NC	
7J07-08	202.8	NA	12.22	NA	13.0	9.5	NC		NC	
7J07-09	202.8	NA	12.22	NA	13.0	7.5	NC		NC	
7J07-10	202.8	NA	12.22	NA	13.0	6.0	NC		NC	
7J07-11	202.8	NA	12.22	NA	13.0	5.5	NC		NC	
7J07-12	202.8	NA	12.22	NA	13.0	6.0	NC		NC	
7J07-13	202.8	NA	12.22	NA	13.0	7.0	NC		NC	
7J07-14	202.8	NA	12.22	NA	13.0	8.5	NC		NC	
7J07-15	202.8	NA	12.22	NA	13.0	7.5	NC		NC	
7J07-16	202.8	NA	12.22	NA	13.0	6.5	NC		NC	

APPENDIX C
RADIOLOGICAL DATA (FIDLER SURVEY & MOUND SOIL SCREENING FACILITY) FOR AREA 7

	FIDLER SURVEY DATA						MOUND SOIL SCREENING FACILITY DATA			
SMPID	Contamination Criteria CH1	FIDLER Readings CH1	Contamination Criteria CH2	FIDLER Readings CH2	Contamination Criteria Out Channel	FIDLER Readings Out Channel	Plutonium - 238		Thorium - 232	
	Units: CPM	Units: CPM	Units: KCPM	Units: KCPM	Units: KCPM	Units: KCPM	Units: pCi/g		Units: pCi/g	
	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	Note:	RESULTS	Note:
7J07-17	202.8	NA	12.22	NA	13.0	6.5	NC		NC	
7J07-18	202.8	NA	12.22	NA	13.0	6.0	NC		NC	
7J07-19	202.8	NA	12.22	NA	13.0	6.5	NC		NC	
7J07-20	202.8	NA	12.22	NA	13.0	6.0	NC		NC	
7J07-21	202.8	NA	12.22	NA	13.0	6.5	NC		NC	
7J07-22	202.8	NA	12.22	NA	13.0	6.0	NC		NC	
7J07-23	202.8	NA	12.22	NA	13.0	6.0	NC		NC	
7J07-24	202.8	NA	12.22	NA	13.0	7.0	NC		NC	
7J07-25	202.8	NA	12.22	NA	13.0	6.5	NC		NC	
7J08	NA	NA	NA	NA	NA	NR	WIPE	b	WIPE	b
7J08-01	202.8	NA	12.22	NA	13.0	5.5	NC		NC	
7J08-02	202.8	NA	12.22	NA	13.0	6.0	NC		NC	
7J08-03	202.8	NA	12.22	NA	13.0	6.0	NC		NC	
7J08-04	202.8	NA	12.22	NA	13.0	6.5	NC		NC	
7J08-05	202.8	NA	12.22	NA	13.0	6.0	NC		NC	
7J08-06	202.8	NA	12.22	NA	13.0	6.5	NC		NC	
7J08-07	202.8	NA	12.22	NA	13.0	6.5	NC		NC	
7J08-08	202.8	NA	12.22	NA	13.0	6.0	NC		NC	
7J08-09	202.8	NA	12.22	NA	13.0	5.5	NC		NC	
7J08-10	202.8	NA	12.22	NA	13.0	5.5	NC		NC	
7J08-11	202.8	NA	12.22	NA	13.0	6.0	NC		NC	
7J08-12	202.8	NA	12.22	NA	13.0	6.0	NC		NC	
7J08-13	202.8	NA	12.22	NA	13.0	6.0	NC		NC	
7J08-14	202.8	NA	12.22	NA	13.0	6.5	NC		NC	
7J08-15	202.8	NA	12.22	NA	13.0	6.0	NC		NC	
7J08-16	202.8	NA	12.22	NA	13.0	5.5	NC		NC	
7J08-17	202.8	NA	12.22	NA	13.0	5.5	NC		NC	
7J08-18	202.8	NA	12.22	NA	13.0	6.0	NC		NC	
7J08-19	202.8	NA	12.22	NA	13.0	6.0	NC		NC	
7J08-20	202.8	NA	12.22	NA	13.0	6.0	NC		NC	
7J08-21	202.8	NA	12.22	NA	13.0	5.5	NC		NC	

APPENDIX C
RADIOLOGICAL DATA (FIDLER SURVEY & MOUND SOIL SCREENING FACILITY) FOR AREA 7

	FIDLER SURVEY DATA						MOUND SOIL SCREENING FACILITY DATA			
SMPID	Contamination Criteria CH1	FIDLER Readings CH1	Contamination Criteria CH2	FIDLER Readings CH2	Contamination Criteria Out Channel	FIDLER Readings Out Channel	Plutonium - 238		Thorium - 232	
	Units: CPM	Units: CPM	Units: KCPM	Units: KCPM	Units: KCPM	Units: KCPM	Units: pCi/g		Units: pCi/g	
	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	Note:	RESULTS	Note:
7J08-22	202.8	NA	12.22	NA	13.0	5.5	NC		NC	
7J08-23	202.8	NA	12.22	NA	13.0	6.0	NC		NC	
7J08-24	202.8	NA	12.22	NA	13.0	5.5	NC		NC	
7J08-25	202.8	NA	12.22	NA	13.0	5.5	NC		NC	
7J09	NA	NA	NA	NA	NA	NR	WIPE	b	WIPE	b
7J09-01	202.8	NA	12.22	NA	13.0	6.0	NC		NC	
7J09-02	202.8	NA	12.22	NA	13.0	6.0	NC		NC	
7J09-03	202.8	NA	12.22	NA	13.0	6.5	NC		NC	
7J09-04	202.8	NA	12.22	NA	13.0	5.5	NC		NC	
7J09-05	202.8	NA	12.22	NA	13.0	6.0	NC		NC	
7J09-06	202.8	NA	12.22	NA	13.0	6.5	NC		NC	
7J09-07	202.8	NA	12.22	NA	13.0	5.5	NC		NC	
7J09-08	202.8	NA	12.22	NA	13.0	5.5	NC		NC	
7J09-09	202.8	NA	12.22	NA	13.0	6.0	NC		NC	
7J09-10	202.8	NA	12.22	NA	13.0	5.5	NC		NC	
7J09-11	202.8	NA	12.22	NA	13.0	6.0	NC		NC	
7J09-12	202.8	NA	12.22	NA	13.0	6.5	NC		NC	
7J09-13	202.8	NA	12.22	NA	13.0	6.0	NC		NC	
7J09-14	202.8	NA	12.22	NA	13.0	5.5	NC		NC	
7J09-15	202.8	NA	12.22	NA	13.0	6.0	NC		NC	
7J09-16	202.8	NA	12.22	NA	13.0	6.0	NC		NC	
7J09-17	202.8	NA	12.22	NA	13.0	6.0	NC		NC	
7J09-18	202.8	NA	12.22	NA	13.0	6.0	NC		NC	
7J09-19	202.8	NA	12.22	NA	13.0	5.5	NC		NC	
7J09-20	202.8	NA	12.22	NA	13.0	5.5	NC		NC	
7J09-21	202.8	NA	12.22	NA	13.0	6.0	NC		NC	
7J09-22	202.8	NA	12.22	NA	13.0	5.5	NC		NC	
7J09-23	202.8	NA	12.22	NA	13.0	6.0	NC		NC	
7J09-24	202.8	NA	12.22	NA	13.0	6.0	NC		NC	
7J09-25	202.8	NA	12.22	NA	13.0	6.0	NC		NC	
7J10	NA	NA	NA	NA	NA	NR	11		0.9	

APPENDIX C
RADIOLOGICAL DATA (FIDLER SURVEY & MOUND SOIL SCREENING FACILITY) FOR AREA 7

	FIDLER SURVEY DATA						MOUND SOIL SCREENING FACILITY DATA			
SMPID	Contamination Criteria CH1	FIDLER Readings CH1	Contamination Criteria CH2	FIDLER Readings CH2	Contamination Criteria Out Channel	FIDLER Readings Out Channel	Plutonium - 238		Thorium - 232	
	Units: CPM	Units: CPM	Units: KCPM	Units: KCPM	Units: KCPM	Units: KCPM	Units: pCi/g		Units: pCi/g	
	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	Note:	RESULTS	Note:
7J10-01	201.5	NA	12.22	NA	13.0	6.5	NC		NC	
7J10-02	201.5	NA	12.22	NA	13.0	6.0	NC		NC	
7J10-03	201.5	NA	12.22	NA	13.0	6.0	NC		NC	
7J10-04	201.5	NA	12.22	NA	13.0	5.5	NC		NC	
7J10-05	201.5	NA	12.22	NA	13.0	6.0	NC		NC	
7J10-06	201.5	NA	12.22	NA	13.0	6.0	NC		NC	
7J10-07	201.5	NA	12.22	NA	13.0	6.0	NC		NC	
7J10-08	201.5	NA	12.22	NA	13.0	5.5	NC		NC	
7J10-09	201.5	NA	12.22	NA	13.0	5.5	NC		NC	
7J10-10	201.5	NA	12.22	NA	13.0	8.0	NC		NC	
7J10-11	201.5	NA	12.22	NA	13.0	9.0	NC		NC	
7J10-12	201.5	NA	12.22	NA	13.0	8.5	NC		NC	
7J10-13	201.5	NA	12.22	NA	13.0	6.0	NC		NC	
7J10-14	201.5	NA	12.22	NA	13.0	5.5	NC		NC	
7J10-15	201.5	NA	12.22	NA	13.0	5.5	NC		NC	
7J10-16	201.5	NA	12.22	NA	13.0	6.0	NC		NC	
7J10-17	201.5	NA	12.22	NA	13.0	6.0	NC		NC	
7J10-18	201.5	NA	12.22	NA	13.0	6.0	NC		NC	
7J10-19	201.5	NA	12.22	NA	13.0	8.5	NC		NC	
7J10-20	201.5	NA	12.22	NA	13.0	8.5	NC		NC	
7J10-21	201.5	NA	12.22	NA	13.0	8.5	NC		NC	
7J10-22	201.5	NA	12.22	NA	13.0	8.0	NC		NC	
7J10-23	201.5	NA	12.22	NA	13.0	5.5	NC		NC	
7J10-24	201.5	NA	12.22	NA	13.0	6.0	NC		NC	
7J10-25	201.5	NA	12.22	NA	13.0	6.0	NC		NC	
7J11	NA	NA	NA	NA	NA	NR	8		0.3	
7J11-01	201.5	NA	12.22	NA	13.0	8.0	NC		NC	
7J11-02	201.5	NA	12.22	NA	13.0	8.5	NC		NC	
7J11-03	201.5	NA	12.22	NA	13.0	7.5	NC		NC	
7J11-04	201.5	NA	12.22	NA	13.0	5.0	NC		NC	
7J11-05	201.5	NA	12.22	NA	13.0	5.5	NC		NC	

APPENDIX C
RADIOLOGICAL DATA (FIDLER SURVEY & MOUND SOIL SCREENING FACILITY) FOR AREA 7

	FIDLER SURVEY DATA						MOUND SOIL SCREENING FACILITY DATA			
SMPID	Contamination Criteria CH1	FIDLER Readings CH1	Contamination Criteria CH2	FIDLER Readings CH2	Contamination Criteria Out Channel	FIDLER Readings Out Channel	Plutonium - 238		Thorium - 232	
	Units: CPM	Units: CPM	Units: KCPM	Units: KCPM	Units: KCPM	Units: KCPM	Units: pCi/g		Units: pCi/g	
	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	Note:	RESULTS	Note:
7J11-06	201.5	NA	12.22	NA	13.0	5.5	NC		NC	
7J11-07	201.5	NA	12.22	NA	13.0	5.0	NC		NC	
7J11-08	201.5	NA	12.22	NA	13.0	8.0	NC		NC	
7J11-09	201.5	NA	12.22	NA	13.0	8.5	NC		NC	
7J11-10	201.5	NA	12.22	NA	13.0	8.0	NC		NC	
7J11-11	201.5	NA	12.22	NA	13.0	8.5	NC		NC	
7J11-12	201.5	NA	12.22	NA	13.0	8.0	NC		NC	
7J11-13	201.5	NA	12.22	NA	13.0	7.5	NC		NC	
7J11-14	201.5	NA	12.22	NA	13.0	7.5	NC		NC	
7J11-15	201.5	NA	12.22	NA	13.0	5.0	NC		NC	
7J11-16	201.5	NA	12.22	NA	13.0	5.0	NC		NC	
7J11-17	201.5	NA	12.22	NA	13.0	6.5	NC		NC	
7J11-18	201.5	NA	12.22	NA	13.0	7.0	NC		NC	
7J11-19	201.5	NA	12.22	NA	13.0	7.0	NC		NC	
7J11-20	201.5	NA	12.22	NA	13.0	7.0	NC		NC	
7J11-21	201.5	NA	12.22	NA	13.0	5.5	NC		NC	
7J11-22	201.5	NA	12.22	NA	13.0	5.5	NC		NC	
7J11-23	201.5	NA	12.22	NA	13.0	5.5	NC		NC	
7J11-24	201.5	NA	12.22	NA	13.0	5.5	NC		NC	
7J11-25	201.5	NA	12.22	NA	13.0	6.0	NC		NC	
7J12	NA	NA	NA	NA	NA	NR	11		0.9	
7J12-01	182.0	NA	10.66	NA	11.7	5.5	NC		NC	
7J12-02	182.0	NA	10.66	NA	11.7	6.0	NC		NC	
7J12-03	182.0	NA	10.66	NA	11.7	6.5	NC		NC	
7J12-04	182.0	NA	10.66	NA	11.7	6.5	NC		NC	
7J12-05	182.0	NA	10.66	NA	11.7	6.5	NC		NC	
7J12-06	182.0	NA	10.66	NA	11.7	6.5	NC		NC	
7J12-07	182.0	NA	10.66	NA	11.7	7.5	NC		NC	
7J12-08	182.0	NA	10.66	NA	11.7	7.5	NC		NC	
7J12-09	182.0	NA	10.66	NA	11.7	7.0	NC		NC	
7J12-10	182.0	NA	10.66	NA	11.7	6.5	NC		NC	

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RADIOLOGICAL DATA (FIDLER SURVEY & MOUND SOIL SCREENING FACILITY) FOR AREA 7

	FIDLER SURVEY DATA						MOUND SOIL SCREENING FACILITY DATA			
SMPID	Contamination Criteria CH1	FIDLER Readings CH1	Contamination Criteria CH2	FIDLER Readings CH2	Contamination Criteria Out Channel	FIDLER Readings Out Channel	Plutonium - 238		Thorium - 232	
	Units: CPM	Units: CPM	Units: KCPM	Units: KCPM	Units: KCPM	Units: KCPM	Units: pCi/g		Units: pCi/g	
	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	Note:	RESULTS	Note:
7J12-11	182.0	NA	10.66	NA	11.7	7.0	NC		NC	
7J12-12	182.0	NA	10.66	NA	11.7	6.5	NC		NC	
7J12-13	182.0	NA	10.66	NA	11.7	6.5	NC		NC	
7J12-14	182.0	NA	10.66	NA	11.7	7.5	NC		NC	
7J12-15	182.0	NA	10.66	NA	11.7	6.5	NC		NC	
7J12-16	182.0	NA	10.66	NA	11.7	7.0	NC		NC	
7J12-17	182.0	NA	10.66	NA	11.7	7.5	NC		NC	
7J12-18	182.0	NA	10.66	NA	11.7	7.0	NC		NC	
7J12-19	182.0	NA	10.66	NA	11.7	6.5	NC		NC	
7J12-20	182.0	NA	10.66	NA	11.7	6.5	NC		NC	
7J12-21	182.0	NA	10.66	NA	11.7	7.0	NC		NC	
7J12-22	182.0	NA	10.66	NA	11.7	6.5	NC		NC	
7J12-23	182.0	NA	10.66	NA	11.7	6.5	NC		NC	
7J12-24	182.0	NA	10.66	NA	11.7	6.5	NC		NC	
7J12-25	182.0	NA	10.66	NA	11.7	6.5	NC		NC	
7J13	NA	NA	NA	NA	NA	NR	12		0.7	
7J13-01	182.0	NA	10.66	NA	11.7	7.0	NC		NC	
7J13-02	182.0	NA	10.66	NA	11.7	7.0	NC		NC	
7J13-03	182.0	NA	10.66	NA	11.7	7.0	NC		NC	
7J13-04	182.0	NA	10.66	NA	11.7	7.5	NC		NC	
7J13-05	182.0	NA	10.66	NA	11.7	7.0	NC		NC	
7J13-06	182.0	NA	10.66	NA	11.7	7.0	NC		NC	
7J13-07	182.0	NA	10.66	NA	11.7	7.0	NC		NC	
7J13-08	182.0	NA	10.66	NA	11.7	7.0	NC		NC	
7J13-09	182.0	NA	10.66	NA	11.7	7.5	NC		NC	
7J13-10	182.0	NA	10.66	NA	11.7	7.5	NC		NC	
7J13-11	182.0	NA	10.66	NA	11.7	7.0	NC		NC	
7J13-12	182.0	NA	10.66	NA	11.7	7.5	NC		NC	
7J13-13	182.0	NA	10.66	NA	11.7	7.5	NC		NC	
7J13-14	182.0	NA	10.66	NA	11.7	6.5	NC		NC	
7J13-15	182.0	NA	10.66	NA	11.7	7.0	NC		NC	

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RADIOLOGICAL DATA (FIDLER SURVEY & MOUND SOIL SCREENING FACILITY) FOR AREA 7

	FIDLER SURVEY DATA						MOUND SOIL SCREENING FACILITY DATA			
SMPID	Contamination Criteria CH1	FIDLER Readings CH1	Contamination Criteria CH2	FIDLER Readings CH2	Contamination Criteria Out Channel	FIDLER Readings Out Channel	Plutonium - 238		Thorium - 232	
	Units: CPM	Units: CPM	Units: KCPM	Units: KCPM	Units: KCPM	Units: KCPM	Units: pCi/g		Units: pCi/g	
	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	Note:	RESULTS	Note:
7J13-16	182.0	NA	10.66	NA	11.7	7.5	NC		NC	
7J13-17	182.0	NA	10.66	NA	11.7	7.0	NC		NC	
7J13-18	182.0	NA	10.66	NA	11.7	6.5	NC		NC	
7J13-19	182.0	NA	10.66	NA	11.7	6.5	NC		NC	
7J13-20	182.0	NA	10.66	NA	11.7	7.5	NC		NC	
7J13-21	182.0	NA	10.66	NA	11.7	7.5	NC		NC	
7J13-22	182.0	NA	10.66	NA	11.7	6.5	NC		NC	
7J13-23	182.0	NA	10.66	NA	11.7	7.5	NC		NC	
7J13-24	182.0	NA	10.66	NA	11.7	7.0	NC		NC	
7J13-25	182.0	NA	10.66	NA	11.7	6.5	NC		NC	
7J14	NA	NA	NA	NA	NA	NR	0		1.1	
7J14-01	182.0	NA	10.66	NA	11.7	7.5	NC		NC	
7J14-02	182.0	NA	10.66	NA	11.7	7.5	NC		NC	
7J14-03	182.0	NA	10.66	NA	11.7	7.5	NC		NC	
7J14-04	182.0	NA	10.66	NA	11.7	7.5	NC		NC	
7J14-05	182.0	NA	10.66	NA	11.7	7.5	NC		NC	
7J14-06	182.0	NA	10.66	NA	11.7	7.0	NC		NC	
7J14-07	182.0	NA	10.66	NA	11.7	7.5	NC		NC	
7J14-08	182.0	NA	10.66	NA	11.7	7.5	NC		NC	
7J14-09	182.0	NA	10.66	NA	11.7	7.5	NC		NC	
7J14-10	182.0	NA	10.66	NA	11.7	8.0	NC		NC	
7J14-11	182.0	NA	10.66	NA	11.7	7.0	NC		NC	
7J14-12	182.0	NA	10.66	NA	11.7	7.5	NC		NC	
7J14-13	182.0	NA	10.66	NA	11.7	7.0	NC		NC	
7J14-14	182.0	NA	10.66	NA	11.7	6.5	NC		NC	
7J14-15	182.0	NA	10.66	NA	11.7	7.5	NC		NC	
7J14-16	182.0	NA	10.66	NA	11.7	7.5	NC		NC	
7J14-17	182.0	NA	10.66	NA	11.7	7.5	NC		NC	
7J14-18	182.0	NA	10.66	NA	11.7	8.0	NC		NC	
7J14-19	182.0	NA	10.66	NA	11.7	7.5	NC		NC	
7J14-20	182.0	NA	10.66	NA	11.7	8.0	NC		NC	

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RADIOLOGICAL DATA (FIDLER SURVEY & MOUND SOIL SCREENING FACILITY) FOR AREA 7

	FIDLER SURVEY DATA						MOUND SOIL SCREENING FACILITY DATA			
SMPID	Contamination Criteria CH1	FIDLER Readings CH1	Contamination Criteria CH2	FIDLER Readings CH2	Contamination Criteria Out Channel	FIDLER Readings Out Channel	Plutonium - 238		Thorium - 232	
	Units: CPM	Units: CPM	Units: KCPM	Units: KCPM	Units: KCPM	Units: KCPM	Units: pCi/g		Units: pCi/g	
	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	Note:	RESULTS	Note:
7J14-21	182.0	NA	10.66	NA	11.7	7.5	NC		NC	
7J14-22	182.0	NA	10.66	NA	11.7	7.5	NC		NC	
7J14-23	182.0	NA	10.66	NA	11.7	7.5	NC		NC	
7J14-24	182.0	NA	10.66	NA	11.7	8.0	NC		NC	
7J14-25	182.0	NA	10.66	NA	11.7	8.5	NC		NC	
7J15	NA	NA	NA	NA	NA	NR	14		0.7	
7K05	202.8	NA	12.22	NA	13	7	7		0.4	
7K06	202.8	NA	12.22	NA	13.0	7.0	13		0.3	
7K06-01	202.8	NA	12.22	NA	13.0	8.0	NC		NC	
7K06-02	174.2	NA	10.69	NA	10.79	5.5	NC		NC	
7K06-03	174.2	NA	10.69	NA	10.79	6.0	NC		NC	
7K06-04	174.2	NA	10.69	NA	10.79	5.5	NC		NC	
7K06-05	174.2	NA	10.69	NA	10.79	6.0	NC		NC	
7K06-06	174.2	NA	10.69	NA	10.79	5.5	NC		NC	
7K06-07	174.2	NA	10.69	NA	10.79	6.0	NC		NC	
7K06-08	174.2	NA	10.69	NA	10.79	6.5	NC		NC	
7K06-09	174.2	NA	10.69	NA	10.79	6.5	NC		NC	
7K06-10	202.8	NA	12.22	NA	13.0	7.5	NC		NC	
7K06-11	202.8	NA	12.22	NA	13.0	7.0	NC		NC	
7K06-12	174.2	NA	10.69	NA	10.79	6.5	NC		NC	
7K06-13	174.2	NA	10.69	NA	10.79	6.5	NC		NC	
7K06-14	174.2	NA	10.69	NA	10.79	5.5	NC		NC	
7K06-15	174.2	NA	10.69	NA	10.79	6.0	NC		NC	
7K06-16	174.2	NA	10.69	NA	10.79	5.0	NC		NC	
7K06-17	174.2	NA	10.69	NA	10.79	6.0	NC		NC	
7K06-18	174.2	NA	10.69	NA	10.79	6.5	NC		NC	
7K06-19	174.2	NA	10.69	NA	10.79	5.5	NC		NC	
7K06-20	202.8	NA	12.22	NA	13.0	6.5	NC		NC	
7K06-21	202.8	NA	12.22	NA	13.0	7.0	NC		NC	
7K06-22	174.2	NA	10.69	NA	10.79	6.5	NC		NC	
7K06-23	174.2	NA	10.69	NA	10.79	6.5	NC		NC	

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RADIOLOGICAL DATA (FIDLER SURVEY & MOUND SOIL SCREENING FACILITY) FOR AREA 7

	FIDLER SURVEY DATA						MOUND SOIL SCREENING FACILITY DATA			
SMPID	Contamination Criteria CH1	FIDLER Readings CH1	Contamination Criteria CH2	FIDLER Readings CH2	Contamination Criteria Out Channel	FIDLER Readings Out Channel	Plutonium - 238		Thorium - 232	
	Units: CPM	Units: CPM	Units: KCPM	Units: KCPM	Units: KCPM	Units: KCPM	Units: pCi/g		Units: pCi/g	
	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	Note:	RESULTS	Note:
7K06-24	174.2	NA	10.69	NA	10.79	6.0	NC		NC	
7K06-25	174.2	NA	10.69	NA	10.79	6.0	NC		NC	
7K07	NA	NA	NA	NA	NA	NR	13		0.7	
7K07-01	202.8	NA	12.22	NA	13.0	7.0	NC		NC	
7K07-02	174.2	NA	10.69	NA	10.79	6.5	NC		NC	
7K07-03	174.2	NA	10.69	NA	10.79	6.5	NC		NC	
7K07-04	174.2	NA	10.69	NA	10.79	6.0	NC		NC	
7K07-05	174.2	NA	10.69	NA	10.79	5.5	NC		NC	
7K07-06	174.2	NA	10.69	NA	10.79	5.5	NC		NC	
7K07-07	174.2	NA	10.69	NA	10.79	5.5	NC		NC	
7K07-08	174.2	NA	10.69	NA	10.79	5.5	NC		NC	
7K07-09	174.2	NA	10.69	NA	10.79	6.5	NC		NC	
7K07-10	174.2	NA	10.69	NA	10.79	6.0	NC		NC	
7K07-11	174.2	NA	10.69	NA	10.79	6.5	NC		NC	
7K07-12	174.2	NA	10.69	NA	10.79	6.5	NC		NC	
7K07-13	174.2	NA	10.69	NA	10.79	6.5	NC		NC	
7K07-14	174.2	NA	10.69	NA	10.79	6.0	NC		NC	
7K07-15	174.2	NA	10.69	NA	10.79	6.0	NC		NC	
7K07-16	174.2	NA	10.69	NA	10.79	6.0	NC		NC	
7K07-17	174.2	NA	10.69	NA	10.79	5.5	NC		NC	
7K07-18	174.2	NA	10.69	NA	10.79	6.5	NC		NC	
7K07-19	174.2	NA	10.69	NA	10.79	6.5	NC		NC	
7K07-20	174.2	NA	10.69	NA	10.79	6.0	NC		NC	
7K07-21	174.2	NA	10.69	NA	10.79	6.0	NC		NC	
7K07-22	174.2	NA	10.69	NA	10.79	6.0	NC		NC	
7K07-23	174.2	NA	10.69	NA	10.79	6.5	NC		NC	
7K07-24	174.2	NA	10.69	NA	10.79	5.5	NC		NC	
7K07-25	174.2	NA	10.69	NA	10.79	6.0	NC		NC	
7K08	NA	NA	NA	NA	NA	NR	WIPE	b	WIPE	b
7K08-01	174.2	NA	10.69	NA	10.79	6.5	NC		NC	
7K08-02	174.2	NA	10.69	NA	10.79	6.5	NC		NC	

APPENDIX C
RADIOLOGICAL DATA (FIDLER SURVEY & MOUND SOIL SCREENING FACILITY) FOR AREA 7

	FIDLER SURVEY DATA						MOUND SOIL SCREENING FACILITY DATA			
SMPID	Contamination Criteria CH1	FIDLER Readings CH1	Contamination Criteria CH2	FIDLER Readings CH2	Contamination Criteria Out Channel	FIDLER Readings Out Channel	Plutonium - 238		Thorium - 232	
	Units: CPM	Units: CPM	Units: KCPM	Units: KCPM	Units: KCPM	Units: KCPM	Units: pCi/g		Units: pCi/g	
	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	Note:	RESULTS	Note:
7K08-03	174.2	NA	10.69	NA	10.79	6.5	NC		NC	
7K08-04	174.2	NA	10.69	NA	10.79	6.0	NC		NC	
7K08-05	174.2	NA	10.69	NA	10.79	6.0	NC		NC	
7K08-06	174.2	NA	10.69	NA	10.79	6.0	NC		NC	
7K08-07	174.2	NA	10.69	NA	10.79	6.5	NC		NC	
7K08-08	174.2	NA	10.69	NA	10.79	6.5	NC		NC	
7K08-09	174.2	NA	10.69	NA	10.79	6.5	NC		NC	
7K08-10	174.2	NA	10.69	NA	10.79	5.5	NC		NC	
7K08-11	174.2	NA	10.69	NA	10.79	6.0	NC		NC	
7K08-12	174.2	NA	10.69	NA	10.79	6.5	NC		NC	
7K08-13	174.2	NA	10.69	NA	10.79	6.5	NC		NC	
7K08-14	174.2	NA	10.69	NA	10.79	6.0	NC		NC	
7K08-15	174.2	NA	10.69	NA	10.79	5.5	NC		NC	
7K08-16	174.2	NA	10.69	NA	10.79	6.0	NC		NC	
7K08-17	174.2	NA	10.69	NA	10.79	6.0	NC		NC	
7K08-18	174.2	NA	10.69	NA	10.79	6.5	NC		NC	
7K08-19	174.2	NA	10.69	NA	10.79	6.0	NC		NC	
7K08-20	174.2	NA	10.69	NA	10.79	5.5	NC		NC	
7K08-21	174.2	NA	10.69	NA	10.79	6.0	NC		NC	
7K08-22	174.2	NA	10.69	NA	10.79	5.0	NC		NC	
7K08-23	174.2	NA	10.69	NA	10.79	6.5	NC		NC	
7K08-24	174.2	NA	10.69	NA	10.79	6.5	NC		NC	
7K08-25	174.2	NA	10.69	NA	10.79	6.0	NC		NC	
7K09	NA	NA	NA	NA	NA	NR	2		0.3	
7K09-01	174.2	NA	10.69	NA	10.79	5.5	NC		NC	
7K09-02	174.2	NA	10.69	NA	10.79	7.5	NC		NC	
7K09-03	174.2	NA	10.69	NA	10.79	7.5	NC		NC	
7K09-04	174.2	NA	10.69	NA	10.79	6.0	NC		NC	
7K09-05	174.2	NA	10.69	NA	10.79	6.5	NC		NC	
7K09-06	174.2	NA	10.69	NA	10.79	6.5	NC		NC	
7K09-07	174.2	NA	10.69	NA	10.79	6.5	NC		NC	

APPENDIX C
RADIOLOGICAL DATA (FIDLER SURVEY & MOUND SOIL SCREENING FACILITY) FOR AREA 7

	FIDLER SURVEY DATA						MOUND SOIL SCREENING FACILITY DATA			
SMPID	Contamination Criteria CH1	FIDLER Readings CH1	Contamination Criteria CH2	FIDLER Readings CH2	Contamination Criteria Out Channel	FIDLER Readings Out Channel	Plutonium - 238		Thorium - 232	
	Units: CPM	Units: CPM	Units: KCPM	Units: KCPM	Units: KCPM	Units: KCPM	Units: pCi/g		Units: pCi/g	
	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	Note:	RESULTS	Note:
7K09-08	174.2	NA	10.69	NA	10.79	8.5	NC		NC	
7K09-09	174.2	NA	10.69	NA	10.79	6.0	NC		NC	
7K09-10	174.2	NA	10.69	NA	10.79	5.5	NC		NC	
7K09-11	174.2	NA	10.69	NA	10.79	6.5	NC		NC	
7K09-12	174.2	NA	10.69	NA	10.79	6.0	NC		NC	
7K09-13	174.2	NA	10.69	NA	10.79	8.5	NC		NC	
7K09-14	174.2	NA	10.69	NA	10.79	7.0	NC		NC	
7K09-15	174.2	NA	10.69	NA	10.79	6.5	NC		NC	
7K09-16	174.2	NA	10.69	NA	10.79	8.0	NC		NC	
7K09-17	174.2	NA	10.69	NA	10.79	7.5	NC		NC	
7K09-18	174.2	NA	10.69	NA	10.79	6.0	NC		NC	
7K09-19	174.2	NA	10.69	NA	10.79	5.5	NC		NC	
7K09-20	174.2	NA	10.69	NA	10.79	5.0	NC		NC	
7K09-21	174.2	NA	10.69	NA	10.79	5.0	NC		NC	
7K09-22	174.2	NA	10.69	NA	10.79	6.0	NC		NC	
7K09-23	174.2	NA	10.69	NA	10.79	6.5	NC		NC	
7K09-24	174.2	NA	10.69	NA	10.79	8.0	NC		NC	
7K09-25	174.2	NA	10.69	NA	10.79	6.5	NC		NC	
7K10	NA	NA	NA	NA	NA	NR	WIPE	b	WIPE	b
7K10-01	201.5	NA	12.22	NA	13.0	5.5	NC		NC	
7K10-02	201.5	NA	12.22	NA	13.0	5.5	NC		NC	
7K10-03	201.5	NA	12.22	NA	13.0	5.5	NC		NC	
7K10-04	201.5	NA	12.22	NA	13.0	7.0	NC		NC	
7K10-05	201.5	NA	12.22	NA	13.0	7.5	NC		NC	
7K10-06	201.5	NA	12.22	NA	13.0	7.5	NC		NC	
7K10-07	201.5	NA	12.22	NA	13.0	8.0	NC		NC	
7K10-08	201.5	NA	12.22	NA	13.0	6.5	NC		NC	
7K10-09	201.5	NA	12.22	NA	13.0	5.5	NC		NC	
7K10-10	201.5	NA	12.22	NA	13.0	5.0	NC		NC	
7K10-11	201.5	NA	12.22	NA	13.0	5.5	NC		NC	
7K10-12	201.5	NA	12.22	NA	13.0	5.5	NC		NC	

APPENDIX C
RADIOLOGICAL DATA (FIDLER SURVEY & MOUND SOIL SCREENING FACILITY) FOR AREA 7

	FIDLER SURVEY DATA						MOUND SOIL SCREENING FACILITY DATA			
SMPID	Contamination Criteria CH1	FIDLER Readings CH1	Contamination Criteria CH2	FIDLER Readings CH2	Contamination Criteria Out Channel	FIDLER Readings Out Channel	Plutonium - 238		Thorium - 232	
	Units: CPM	Units: CPM	Units: KCPM	Units: KCPM	Units: KCPM	Units: KCPM	Units: pCi/g		Units: pCi/g	
	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	Note:	RESULTS	Note:
7K10-13	201.5	NA	12.22	NA	13.0	6.0	NC		NC	
7K10-14	201.5	NA	12.22	NA	13.0	7.5	NC		NC	
7K10-15	201.5	NA	12.22	NA	13.0	8.5	NC		NC	
7K10-16	201.5	NA	12.22	NA	13.0	7.0	NC		NC	
7K10-17	201.5	NA	12.22	NA	13.0	5.0	NC		NC	
7K10-18	201.5	NA	12.22	NA	13.0	5.0	NC		NC	
7K10-19	201.5	NA	12.22	NA	13.0	5.0	NC		NC	
7K10-20	201.5	NA	12.22	NA	13.0	5.0	NC		NC	
7K10-21	201.5	NA	12.22	NA	13.0	5.0	NC		NC	
7K10-22	201.5	NA	12.22	NA	13.0	5.5	NC		NC	
7K10-23	201.5	NA	12.22	NA	13.0	5.0	NC		NC	
7K10-24	201.5	NA	12.22	NA	13.0	5.5	NC		NC	
7K10-25	201.5	NA	12.22	NA	13.0	6.0	NC		NC	
7K11	NA	NA	NA	NA	NA	NR	WIPE	b	WIPE	b
7K11-01	201.5	NA	12.22	NA	13.0	5.5	NC		NC	
7K11-02	201.5	NA	12.22	NA	13.0	6.0	NC		NC	
7K11-03	201.5	NA	12.22	NA	13.0	5.5	NC		NC	
7K11-04	201.5	NA	12.22	NA	13.0	5.0	NC		NC	
7K11-05	201.5	NA	12.22	NA	13.0	5.5	NC		NC	
7K11-06	201.5	NA	12.22	NA	13.0	6.0	NC		NC	
7K11-07	201.5	NA	12.22	NA	13.0	5.5	NC		NC	
7K11-08	201.5	NA	12.22	NA	13.0	5.5	NC		NC	
7K11-09	201.5	NA	12.22	NA	13.0	5.5	NC		NC	
7K11-10	201.5	NA	12.22	NA	13.0	5.5	NC		NC	
7K11-11	201.5	NA	12.22	NA	13.0	5.0	NC		NC	
7K11-12	201.5	NA	12.22	NA	13.0	6.0	NC		NC	
7K11-13	201.5	NA	12.22	NA	13.0	6.0	NC		NC	
7K11-14	201.5	NA	12.22	NA	13.0	5.0	NC		NC	
7K11-15	201.5	NA	12.22	NA	13.0	5.5	NC		NC	
7K11-16	201.5	NA	12.22	NA	13.0	5.5	NC		NC	
7K11-17	201.5	NA	12.22	NA	13.0	6.0	NC		NC	

APPENDIX C
RADIOLOGICAL DATA (FIDLER SURVEY & MOUND SOIL SCREENING FACILITY) FOR AREA 7

	FIDLER SURVEY DATA						MOUND SOIL SCREENING FACILITY DATA			
SMPID	Contamination Criteria CH1	FIDLER Readings CH1	Contamination Criteria CH2	FIDLER Readings CH2	Contamination Criteria Out Channel	FIDLER Readings Out Channel	Plutonium - 238		Thorium - 232	
	Units: CPM	Units: CPM	Units: KCPM	Units: KCPM	Units: KCPM	Units: KCPM	Units: pCi/g		Units: pCi/g	
	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	Note:	RESULTS	Note:
7K11-18	201.5	NA	12.22	NA	13.0	6.0	NC		NC	
7K11-19	201.5	NA	12.22	NA	13.0	5.5	NC		NC	
7K11-20	201.5	NA	12.22	NA	13.0	5.0	NC		NC	
7K11-21	201.5	NA	12.22	NA	13.0	5.0	NC		NC	
7K11-22	201.5	NA	12.22	NA	13.0	5.5	NC		NC	
7K11-23	201.5	NA	12.22	NA	13.0	6.0	NC		NC	
7K11-24	201.5	NA	12.22	NA	13.0	5.5	NC		NC	
7K11-25	201.5	NA	12.22	NA	13.0	6.0	NC		NC	
7K12	NA	NA	NA	NA	NA	NR	12		0.9	
7K12-01	201.5	NA	12.22	NA	13.0	5.0	NC		NC	
7K12-02	201.5	NA	12.22	NA	13.0	5.5	NC		NC	
7K12-03	201.5	NA	12.22	NA	13.0	6.0	NC		NC	
7K12-04	201.5	NA	12.22	NA	13.0	6.0	NC		NC	
7K12-05	201.5	NA	12.22	NA	13.0	6.0	NC		NC	
7K12-06	201.5	NA	12.22	NA	13.0	6.0	NC		NC	
7K12-07	201.5	NA	12.22	NA	13.0	6.0	NC		NC	
7K12-08	201.5	NA	12.22	NA	13.0	6.0	NC		NC	
7K12-09	201.5	NA	12.22	NA	13.0	6.0	NC		NC	
7K12-10	201.5	NA	12.22	NA	13.0	5.0	NC		NC	
7K12-11	201.5	NA	12.22	NA	13.0	5.0	NC		NC	
7K12-12	201.5	NA	12.22	NA	13.0	5.5	NC		NC	
7K12-13	201.5	NA	12.22	NA	13.0	5.5	NC		NC	
7K12-14	201.5	NA	12.22	NA	13.0	5.5	NC		NC	
7K12-15	201.5	NA	12.22	NA	13.0	6.0	NC		NC	
7K12-16	201.5	NA	12.22	NA	13.0	5.0	NC		NC	
7K12-17	201.5	NA	12.22	NA	13.0	5.5	NC		NC	
7K12-18	201.5	NA	12.22	NA	13.0	5.5	NC		NC	
7K12-19	201.5	NA	12.22	NA	13.0	5.5	NC		NC	
7K12-20	201.5	NA	12.22	NA	13.0	5.0	NC		NC	
7K12-21	201.5	NA	12.22	NA	13.0	5.5	NC		NC	
7K12-22	201.5	NA	12.22	NA	13.0	5.5	NC		NC	

APPENDIX C
RADIOLOGICAL DATA (FIDLER SURVEY & MOUND SOIL SCREENING FACILITY) FOR AREA 7

	FIDLER SURVEY DATA						MOUND SOIL SCREENING FACILITY DATA			
SMPID	Contamination Criteria CH1	FIDLER Readings CH1	Contamination Criteria CH2	FIDLER Readings CH2	Contamination Criteria Out Channel	FIDLER Readings Out Channel	Plutonium - 238		Thorium - 232	
	Units: CPM	Units: CPM	Units: KCPM	Units: KCPM	Units: KCPM	Units: KCPM	Units: pCi/g		Units: pCi/g	
	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	Note:	RESULTS	Note:
7K12-23	201.5	NA	12.22	NA	13.0	5.5	NC		NC	
7K12-24	201.5	NA	12.22	NA	13.0	6.0	NC		NC	
7K12-25	201.5	NA	12.22	NA	13.0	6.0	NC		NC	
7K13	NA	NA	NA	NA	NA	NR	19		0.5	
7K13-01	201.5	NA	12.22	NA	13.0	6.0	NC		NC	
7K13-02	201.5	NA	12.22	NA	13.0	5.0	NC		NC	
7K13-03	201.5	NA	12.22	NA	13.0	5.5	NC		NC	
7K13-04	201.5	NA	12.22	NA	13.0	5.5	NC		NC	
7K13-05	201.5	NA	12.22	NA	13.0	6.0	NC		NC	
7K13-06	201.5	NA	12.22	NA	13.0	5.0	NC		NC	
7K13-07	201.5	NA	12.22	NA	13.0	5.5	NC		NC	
7K13-08	201.5	NA	12.22	NA	13.0	5.5	NC		NC	
7K13-09	201.5	NA	12.22	NA	13.0	6.5	NC		NC	
7K13-10	201.5	NA	12.22	NA	13.0	7.0	NC		NC	
7K13-11	201.5	NA	12.22	NA	13.0	7.0	NC		NC	
7K13-12	201.5	NA	12.22	NA	13.0	6.0	NC		NC	
7K13-13	201.5	NA	12.22	NA	13.0	5.0	NC		NC	
7K13-14	201.5	NA	12.22	NA	13.0	5.5	NC		NC	
7K13-15	201.5	NA	12.22	NA	13.0	5.5	NC		NC	
7K13-16	201.5	NA	12.22	NA	13.0	5.5	NC		NC	
7K13-17	201.5	NA	12.22	NA	13.0	5.5	NC		NC	
7K13-18	201.5	NA	12.22	NA	13.0	5.0	NC		NC	
7K13-19	201.5	NA	12.22	NA	13.0	6.0	NC		NC	
7K13-20	201.5	NA	12.22	NA	13.0	7.0	NC		NC	
7K13-21	201.5	NA	12.22	NA	13.0	7.0	NC		NC	
7K13-22	201.5	NA	12.22	NA	13.0	6.0	NC		NC	
7K13-23	201.5	NA	12.22	NA	13.0	5.0	NC		NC	
7K13-24	201.5	NA	12.22	NA	13.0	5.5	NC		NC	
7K13-25	201.5	NA	12.22	NA	13.0	5.5	NC		NC	
7K14	NA	NA	NA	NA	NA	NR	23		0.8	
7K14-01	201.5	NA	12.22	NA	13.0	7.5	NC		NC	

APPENDIX C
RADIOLOGICAL DATA (FIDLER SURVEY & MOUND SOIL SCREENING FACILITY) FOR AREA 7

	FIDLER SURVEY DATA						MOUND SOIL SCREENING FACILITY DATA			
SMPID	Contamination Criteria CH1	FIDLER Readings CH1	Contamination Criteria CH2	FIDLER Readings CH2	Contamination Criteria Out Channel	FIDLER Readings Out Channel	Plutonium - 238		Thorium - 232	
	Units: CPM	Units: CPM	Units: KCPM	Units: KCPM	Units: KCPM	Units: KCPM	Units: pCi/g		Units: pCi/g	
	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	Note:	RESULTS	Note:
7L06-05	174.2	NA	10.69	NA	10.79	7.0	NC		NC	
7L06-06	174.2	NA	10.69	NA	10.79	7.0	NC		NC	
7L06-07	174.2	NA	10.69	NA	10.79	7.0	NC		NC	
7L06-08	174.2	NA	10.69	NA	10.79	6.0	NC		NC	
7L06-09	174.2	NA	10.69	NA	10.79	5.5	NC		NC	
7L06-10	174.2	NA	10.69	NA	10.79	5.5	NC		NC	
7L06-11	174.2	NA	10.69	NA	10.79	5.5	NC		NC	
7L06-12	174.2	NA	10.69	NA	10.79	6.0	NC		NC	
7L06-13	174.2	NA	10.69	NA	10.79	6.0	NC		NC	
7L06-14	174.2	NA	10.69	NA	10.79	7.0	NC		NC	
7L06-15	174.2	NA	10.69	NA	10.79	7.5	NC		NC	
7L06-16	174.2	NA	10.69	NA	10.79	7.0	NC		NC	
7L06-17	174.2	NA	10.69	NA	10.79	6.5	NC		NC	
7L06-18	174.2	NA	10.69	NA	10.79	6.0	NC		NC	
7L06-19	174.2	NA	10.69	NA	10.79	6.0	NC		NC	
7L06-20	174.2	NA	10.69	NA	10.79	6.0	NC		NC	
7L06-21	174.2	NA	10.69	NA	10.79	6.0	NC		NC	
7L06-22	174.2	NA	10.69	NA	10.79	7.5	NC		NC	
7L06-23	174.2	NA	10.69	NA	10.79	6.5	NC		NC	
7L06-24	174.2	NA	10.69	NA	10.79	6.5	NC		NC	
7L06-25	174.2	NA	10.69	NA	10.79	7.5	NC		NC	
7L07	NA	NA	NA	NA	NA	NR	WIPE	b	WIPE	b
7L07-01	174.2	NA	10.69	NA	10.79	6.0	NC		NC	
7L07-02	174.2	NA	10.69	NA	10.79	5.5	NC		NC	
7L07-03	174.2	NA	10.69	NA	10.79	6.0	NC		NC	
7L07-04	174.2	NA	10.69	NA	10.79	8.5	NC		NC	
7L07-05	174.2	NA	10.69	NA	10.79	5.5	NC		NC	
7L07-06	174.2	NA	10.69	NA	10.79	6.0	NC		NC	
7L07-07	174.2	NA	10.69	NA	10.79	6.0	NC		NC	
7L07-08	174.2	NA	10.69	NA	10.79	5.5	NC		NC	
7L07-09	174.2	NA	10.69	NA	10.79	5.5	NC		NC	

APPENDIX C
RADIOLOGICAL DATA (FIDLER SURVEY & MOUND SOIL SCREENING FACILITY) FOR AREA 7

	FIDLER SURVEY DATA						MOUND SOIL SCREENING FACILITY DATA			
SMPID	Contamination Criteria CH1	FIDLER Readings CH1	Contamination Criteria CH2	FIDLER Readings CH2	Contamination Criteria Out Channel	FIDLER Readings Out Channel	Plutonium - 238		Thorium - 232	
	Units: CPM	Units: CPM	Units: KCPM	Units: KCPM	Units: KCPM	Units: KCPM	Units: pCi/g		Units: pCi/g	
	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	Note:	RESULTS	Note:
7L07-10	174.2	NA	10.69	NA	10.79	5.5	NC		NC	
7L07-11	174.2	NA	10.69	NA	10.79	5.5	NC		NC	
7L07-12	174.2	NA	10.69	NA	10.79	5.5	NC		NC	
7L07-13	174.2	NA	10.69	NA	10.79	5.5	NC		NC	
7L07-14	174.2	NA	10.69	NA	10.79	5.5	NC		NC	
7L07-15	174.2	NA	10.69	NA	10.79	5.5	NC		NC	
7L07-16	174.2	NA	10.69	NA	10.79	5.0	NC		NC	
7L07-17	174.2	NA	10.69	NA	10.79	5.0	NC		NC	
7L07-18	174.2	NA	10.69	NA	10.79	5.5	NC		NC	
7L07-19	174.2	NA	10.69	NA	10.79	6.0	NC		NC	
7L07-20	174.2	NA	10.69	NA	10.79	5.5	NC		NC	
7L07-21	174.2	NA	10.69	NA	10.79	5.0	NC		NC	
7L07-22	174.2	NA	10.69	NA	10.79	5.0	NC		NC	
7L07-23	174.2	NA	10.69	NA	10.79	5.5	NC		NC	
7L07-24	174.2	NA	10.69	NA	10.79	5.5	NC		NC	
7L07-25	174.2	NA	10.69	NA	10.79	5.5	NC		NC	
7L08	NA	NA	NA	NA	NA	NR	WIPE	b	WIPE	b
7L08-01	174.2	NA	10.69	NA	10.79	6.0	NC		NC	
7L08-02	174.2	NA	10.69	NA	10.79	6.0	NC		NC	
7L08-03	174.2	NA	10.69	NA	10.79	5.0	NC		NC	
7L08-04	174.2	NA	10.69	NA	10.79	5.0	NC		NC	
7L08-05	174.2	NA	10.69	NA	10.79	5.0	NC		NC	
7L08-06	174.2	NA	10.69	NA	10.79	5.0	NC		NC	
7L08-07	174.2	NA	10.69	NA	10.79	5.5	NC		NC	
7L08-08	174.2	NA	10.69	NA	10.79	6.0	NC		NC	
7L08-09	174.2	NA	10.69	NA	10.79	5.5	NC		NC	
7L08-10	174.2	NA	10.69	NA	10.79	5.5	NC		NC	
7L08-11	174.2	NA	10.69	NA	10.79	5.5	NC		NC	
7L08-12	174.2	NA	10.69	NA	10.79	6.0	NC		NC	
7L08-13	174.2	NA	10.69	NA	10.79	6.0	NC		NC	
7L08-14	174.2	NA	10.69	NA	10.79	5.5	NC		NC	

APPENDIX C
RADIOLOGICAL DATA (FIDLER SURVEY & MOUND SOIL SCREENING FACILITY) FOR AREA 7

	FIDLER SURVEY DATA						MOUND SOIL SCREENING FACILITY DATA			
SMPID	Contamination Criteria CH1	FIDLER Readings CH1	Contamination Criteria CH2	FIDLER Readings CH2	Contamination Criteria Out Channel	FIDLER Readings Out Channel	Plutonium - 238		Thorium - 232	
	Units: CPM	Units: CPM	Units: KCPM	Units: KCPM	Units: KCPM	Units: KCPM	Units: pCi/g		Units: pCi/g	
	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	Note:	RESULTS	Note:
7L08-15	174.2	NA	10.69	NA	10.79	5.5	NC		NC	
7L08-16	174.2	NA	10.69	NA	10.79	5.5	NC		NC	
7L08-17	174.2	NA	10.69	NA	10.79	6.0	NC		NC	
7L08-18	174.2	NA	10.69	NA	10.79	5.5	NC		NC	
7L08-19	174.2	NA	10.69	NA	10.79	6.0	NC		NC	
7L08-20	174.2	NA	10.69	NA	10.79	5.5	NC		NC	
7L08-21	174.2	NA	10.69	NA	10.79	6.0	NC		NC	
7L08-22	174.2	NA	10.69	NA	10.79	5.5	NC		NC	
7L08-23	174.2	NA	10.69	NA	10.79	6.0	NC		NC	
7L08-24	174.2	NA	10.69	NA	10.79	6.0	NC		NC	
7L08-25	174.2	NA	10.69	NA	10.79	6.0	NC		NC	
7L09	NA	NA	NA	NA	NA	NR	WIPE	b	WIPE	b
7L09-01	174.2	NA	10.69	NA	10.79	6.0	NC		NC	
7L09-02	174.2	NA	10.69	NA	10.79	6.5	NC		NC	
7L09-03	174.2	NA	10.69	NA	10.79	5.5	NC		NC	
7L09-04	174.2	NA	10.69	NA	10.79	6.0	NC		NC	
7L09-05	174.2	NA	10.69	NA	10.79	6.0	NC		NC	
7L09-06	174.2	NA	10.69	NA	10.79	6.0	NC		NC	
7L09-07	174.2	NA	10.69	NA	10.79	6.0	NC		NC	
7L09-08	174.2	NA	10.69	NA	10.79	6.0	NC		NC	
7L09-09	174.2	NA	10.69	NA	10.79	6.0	NC		NC	
7L09-10	174.2	NA	10.69	NA	10.79	6.5	NC		NC	
7L09-11	174.2	NA	10.69	NA	10.79	6.5	NC		NC	
7L09-12	174.2	NA	10.69	NA	10.79	6.5	NC		NC	
7L09-13	174.2	NA	10.69	NA	10.79	6.0	NC		NC	
7L09-14	174.2	NA	10.69	NA	10.79	6.0	NC		NC	
7L09-15	174.2	NA	10.69	NA	10.79	6.0	NC		NC	
7L09-16	174.2	NA	10.69	NA	10.79	6.0	NC		NC	
7L09-17	174.2	NA	10.69	NA	10.79	6.0	NC		NC	
7L09-18	174.2	NA	10.69	NA	10.79	7.5	NC		NC	
7L09-19	174.2	NA	10.69	NA	10.79	7.0	NC		NC	

APPENDIX C
RADIOLOGICAL DATA (FIDLER SURVEY & MOUND SOIL SCREENING FACILITY) FOR AREA 7

	FIDLER SURVEY DATA						MOUND SOIL SCREENING FACILITY DATA			
SMPID	Contamination Criteria CH1	FIDLER Readings CH1	Contamination Criteria CH2	FIDLER Readings CH2	Contamination Criteria Out Channel	FIDLER Readings Out Channel	Plutonium - 238		Thorium - 232	
	Units: CPM	Units: CPM	Units: KCPM	Units: KCPM	Units: KCPM	Units: KCPM	Units: pCi/g		Units: pCi/g	
	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	Note:	RESULTS	Note:
7L09-20	174.2	NA	10.69	NA	10.79	6.5	NC		NC	
7L09-21	174.2	NA	10.69	NA	10.79	7.0	NC		NC	
7L09-22	174.2	NA	10.69	NA	10.79	7.0	NC		NC	
7L09-23	174.2	NA	10.69	NA	10.79	7.0	NC		NC	
7L09-24	174.2	NA	10.69	NA	10.79	7.0	NC		NC	
7L09-25	174.2	NA	10.69	NA	10.79	6.0	NC		NC	
7L10	NA	NA	NA	NA	NA	NR	WIPE	b	WIPE	b
7L10-01	174.2	NA	10.69	NA	10.79	6.5	NC		NC	
7L10-02	174.2	NA	10.69	NA	10.79	7.0	NC		NC	
7L10-03	174.2	NA	10.69	NA	10.79	7.5	NC		NC	
7L10-04	174.2	NA	10.69	NA	10.79	7.0	NC		NC	
7L10-05	174.2	NA	10.69	NA	10.79	5.0	NC		NC	
7L10-06	174.2	NA	10.69	NA	10.79	5.5	NC		NC	
7L10-07	174.2	NA	10.69	NA	10.79	7.0	NC		NC	
7L10-08	174.2	NA	10.69	NA	10.79	7.0	NC		NC	
7L10-09	174.2	NA	10.69	NA	10.79	7.0	NC		NC	
7L10-10	174.2	NA	10.69	NA	10.79	7.0	NC		NC	
7L10-11	174.2	NA	10.69	NA	10.79	8.0	NC		NC	
7L10-12	174.2	NA	10.69	NA	10.79	7.0	NC		NC	
7L10-13	174.2	NA	10.69	NA	10.79	6.5	NC		NC	
7L10-14	174.2	NA	10.69	NA	10.79	6.5	NC		NC	
7L10-15	174.2	NA	10.69	NA	10.79	7.0	NC		NC	
7L10-16	174.2	NA	10.69	NA	10.79	7.5	NC		NC	
7L10-17	174.2	NA	10.69	NA	10.79	7.0	NC		NC	
7L10-18	174.2	NA	10.69	NA	10.79	6.5	NC		NC	
7L10-19	174.2	NA	10.69	NA	10.79	7.0	NC		NC	
7L10-20	174.2	NA	10.69	NA	10.79	7.5	NC		NC	
7L10-21	174.2	NA	10.69	NA	10.79	7.0	NC		NC	
7L10-22	174.2	NA	10.69	NA	10.79	7.5	NC		NC	
7L10-23	174.2	NA	10.69	NA	10.79	8.0	NC		NC	
7L10-24	174.2	NA	10.69	NA	10.79	6.5	NC		NC	

APPENDIX C
RADIOLOGICAL DATA (FIDLER SURVEY & MOUND SOIL SCREENING FACILITY) FOR AREA 7

	FIDLER SURVEY DATA						MOUND SOIL SCREENING FACILITY DATA			
SMPID	Contamination Criteria CH1	FIDLER Readings CH1	Contamination Criteria CH2	FIDLER Readings CH2	Contamination Criteria Out Channel	FIDLER Readings Out Channel	Plutonium - 238		Thorium - 232	
	Units: CPM	Units: CPM	Units: KCPM	Units: KCPM	Units: KCPM	Units: KCPM	Units: pCi/g		Units: pCi/g	
	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	Note:	RESULTS	Note:
7L10-25	174.2	NA	10.69	NA	10.79	6.5	NC		NC	
7L11	NA	NA	NA	NA	NA	NR	13		1.1	
7L11-01	174.2	NA	10.69	NA	10.79	6.5	NC		NC	
7L11-02	174.2	NA	10.69	NA	10.79	6.5	NC		NC	
7L11-03	174.2	NA	10.69	NA	10.79	6.5	NC		NC	
7L11-04	174.2	NA	10.69	NA	10.79	6.5	NC		NC	
7L11-05	174.2	NA	10.69	NA	10.79	6.5	NC		NC	
7L11-06	174.2	NA	10.69	NA	10.79	6.0	NC		NC	
7L11-07	174.2	NA	10.69	NA	10.79	6.0	NC		NC	
7L11-08	174.2	NA	10.69	NA	10.79	6.5	NC		NC	
7L11-09	174.2	NA	10.69	NA	10.79	6.5	NC		NC	
7L11-10	174.2	NA	10.69	NA	10.79	6.5	NC		NC	
7L11-11	174.2	NA	10.69	NA	10.79	6.5	NC		NC	
7L11-12	174.2	NA	10.69	NA	10.79	6.5	NC		NC	
7L11-13	174.2	NA	10.69	NA	10.79	7.5	NC		NC	
7L11-14	174.2	NA	10.69	NA	10.79	6.5	NC		NC	
7L11-15	174.2	NA	10.69	NA	10.79	5.5	NC		NC	
7L11-16	174.2	NA	10.69	NA	10.79	7.5	NC		NC	
7L11-17	174.2	NA	10.69	NA	10.79	7.0	NC		NC	
7L11-18	174.2	NA	10.69	NA	10.79	6.5	NC		NC	
7L11-19	174.2	NA	10.69	NA	10.79	6.5	NC		NC	
7L11-20	174.2	NA	10.69	NA	10.79	6.0	NC		NC	
7L11-21	174.2	NA	10.69	NA	10.79	6.0	NC		NC	
7L11-22	174.2	NA	10.69	NA	10.79	6.0	NC		NC	
7L11-23	174.2	NA	10.69	NA	10.79	6.5	NC		NC	
7L11-24	174.2	NA	10.69	NA	10.79	6.5	NC		NC	
7L11-25	174.2	NA	10.69	NA	10.79	7.0	NC		NC	
7L12	NA	NA	NA	NA	NA	NR	5		0.3	
7L12-01	201.5	NA	12.22	NA	13.0	6.0	NC		NC	
7L12-02	201.5	NA	12.22	NA	13.0	6.0	NC		NC	
7L12-03	201.5	NA	12.22	NA	13.0	6.0	NC		NC	

APPENDIX C
RADIOLOGICAL DATA (FIDLER SURVEY & MOUND SOIL SCREENING FACILITY) FOR AREA 7

	FIDLER SURVEY DATA						MOUND SOIL SCREENING FACILITY DATA			
SMPID	Contamination Criteria CH1	FIDLER Readings CH1	Contamination Criteria CH2	FIDLER Readings CH2	Contamination Criteria Out Channel	FIDLER Readings Out Channel	Plutonium - 238		Thorium - 232	
	Units: CPM	Units: CPM	Units: KCPM	Units: KCPM	Units: KCPM	Units: KCPM	Units: pCi/g		Units: pCi/g	
	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	Note:	RESULTS	Note:
7L12-04	201.5	NA	12.22	NA	13.0	6.5	NC		NC	
7L12-05	201.5	NA	12.22	NA	13.0	7.0	NC		NC	
7L12-06	201.5	NA	12.22	NA	13.0	6.0	NC		NC	
7L12-07	201.5	NA	12.22	NA	13.0	6.5	NC		NC	
7L12-08	201.5	NA	12.22	NA	13.0	5.5	NC		NC	
7L12-09	201.5	NA	12.22	NA	13.0	5.5	NC		NC	
7L12-10	201.5	NA	12.22	NA	13.0	5.0	NC		NC	
7L12-11	201.5	NA	12.22	NA	13.0	5.0	NC		NC	
7L12-12	201.5	NA	12.22	NA	13.0	5.0	NC		NC	
7L12-13	201.5	NA	12.22	NA	13.0	6.0	NC		NC	
7L12-14	201.5	NA	12.22	NA	13.0	7.0	NC		NC	
7L12-15	201.5	NA	12.22	NA	13.0	7.0	NC		NC	
7L12-16	201.5	NA	12.22	NA	13.0	7.0	NC		NC	
7L12-17	201.5	NA	12.22	NA	13.0	7.0	NC		NC	
7L12-18	201.5	NA	12.22	NA	13.0	7.0	NC		NC	
7L12-19	201.5	NA	12.22	NA	13.0	6.0	NC		NC	
7L12-20	201.5	NA	12.22	NA	13.0	5.0	NC		NC	
7L12-21	201.5	NA	12.22	NA	13.0	5.0	NC		NC	
7L12-22	201.5	NA	12.22	NA	13.0	6.0	NC		NC	
7L12-23	201.5	NA	12.22	NA	13.0	6.5	NC		NC	
7L12-24	201.5	NA	12.22	NA	13.0	7.5	NC		NC	
7L12-25	201.5	NA	12.22	NA	13.0	8.0	NC		NC	
7L13	NA	NA	NA	NA	NA	NR	WIPE	b	WIPE	b
7L13-01	201.5	NA	12.22	NA	13.0	6.0	NC		NC	
7L13-02	201.5	NA	12.22	NA	13.0	6.5	NC		NC	
7L13-03	201.5	NA	12.22	NA	13.0	5.5	NC		NC	
7L13-04	201.5	NA	12.22	NA	13.0	5.0	NC		NC	
7L13-05	201.5	NA	12.22	NA	13.0	5.0	NC		NC	
7L13-06	201.5	NA	12.22	NA	13.0	6.0	NC		NC	
7L13-07	201.5	NA	12.22	NA	13.0	5.5	NC		NC	
7L13-08	201.5	NA	12.22	NA	13.0	6.5	NC		NC	

APPENDIX C

RADIOLOGICAL DATA (FIDLER SURVEY & MOUND SOIL SCREENING FACILITY) FOR AREA 7

	FIDLER SURVEY DATA						MOUND SOIL SCREENING FACILITY DATA			
SMPID	Contamination Criteria CH1	FIDLER Readings CH1	Contamination Criteria CH2	FIDLER Readings CH2	Contamination Criteria Out Channel	FIDLER Readings Out Channel	Plutonium - 238		Thorium - 232	
	Units: CPM	Units: CPM	Units: KCPM	Units: KCPM	Units: KCPM	Units: KCPM	Units: pCi/g		Units: pCi/g	
	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	Note:	RESULTS	Note:
7L13-09	201.5	NA	12.22	NA	13.0	5.5	NC		NC	
7L13-10	201.5	NA	12.22	NA	13.0	5.5	NC		NC	
7L13-11	201.5	NA	12.22	NA	13.0	5.5	NC		NC	
7L13-12	201.5	NA	12.22	NA	13.0	5.0	NC		NC	
7L13-13	201.5	NA	12.22	NA	13.0	6.5	NC		NC	
7L13-14	201.5	NA	12.22	NA	13.0	5.5	NC		NC	
7L13-15	201.5	NA	12.22	NA	13.0	8.0	NC		NC	
7L13-16	201.5	NA	12.22	NA	13.0	5.5	NC		NC	
7L13-17	201.5	NA	12.22	NA	13.0	5.5	NC		NC	
7L13-18	201.5	NA	12.22	NA	13.0	5.5	NC		NC	
7L13-19	201.5	NA	12.22	NA	13.0	5.5	NC		NC	
7L13-20	201.5	NA	12.22	NA	13.0	6.0	NC		NC	
7L13-21	201.5	NA	12.22	NA	13.0	6.0	NC		NC	
7L13-22	201.5	NA	12.22	NA	13.0	6.0	NC		NC	
7L13-23	201.5	NA	12.22	NA	13.0	5.5	NC		NC	
7L13-24	201.5	NA	12.22	NA	13.0	6.0	NC		NC	
7L13-25	201.5	NA	12.22	NA	13.0	6.0	NC		NC	
7L14	NA	NA	NA	NA	NA	NR	WIPE	b	WIPE	b
7L14-01	201.5	NA	12.22	NA	13.0	6.5	NC		NC	
7L14-02	201.5	NA	12.22	NA	13.0	6.0	NC		NC	
7L14-03	201.5	NA	12.22	NA	13.0	6.5	NC		NC	
7L14-04	201.5	NA	12.22	NA	13.0	7.0	NC		NC	
7L14-05	201.5	NA	12.22	NA	13.0	6.5	NC		NC	
7L14-06	201.5	NA	12.22	NA	13.0	7.0	NC		NC	
7L14-07	201.5	NA	12.22	NA	13.0	6.0	NC		NC	
7L14-08	201.5	NA	12.22	NA	13.0	5.5	NC		NC	
7L14-09	201.5	NA	12.22	NA	13.0	6.5	NC		NC	
7L14-10	201.5	NA	12.22	NA	13.0	6.0	NC		NC	
7L14-11	201.5	NA	12.22	NA	13.0	6.0	NC		NC	
7L14-12	201.5	NA	12.22	NA	13.0	6.5	NC		NC	
7L14-13	201.5	NA	12.22	NA	13.0	6.0	NC		NC	

APPENDIX C
RADIOLOGICAL DATA (FIDLER SURVEY & MOUND SOIL SCREENING FACILITY) FOR AREA 7

	FIDLER SURVEY DATA						MOUND SOIL SCREENING FACILITY DATA			
SMPID	Contamination Criteria CH1	FIDLER Readings CH1	Contamination Criteria CH2	FIDLER Readings CH2	Contamination Criteria Out Channel	FIDLER Readings Out Channel	Plutonium - 238		Thorium - 232	
	Units: CPM	Units: CPM	Units: KCPM	Units: KCPM	Units: KCPM	Units: KCPM	Units: pCi/g		Units: pCi/g	
	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	Note:	RESULTS	Note:
7L14-14	201.5	NA	12.22	NA	13.0	6.0	NC		NC	
7L14-15	201.5	NA	12.22	NA	13.0	6.5	NC		NC	
7L14-16	201.5	NA	12.22	NA	13.0	5.5	NC		NC	
7L14-17	201.5	NA	12.22	NA	13.0	5.5	NC		NC	
7L14-18	201.5	NA	12.22	NA	13.0	6.0	NC		NC	
7L14-19	201.5	NA	12.22	NA	13.0	6.0	NC		NC	
7L14-20	201.5	NA	12.22	NA	13.0	6.0	NC		NC	
7L14-21	201.5	NA	12.22	NA	13.0	6.5	NC		NC	
7L14-22	201.5	NA	12.22	NA	13.0	6.5	NC		NC	
7L14-23	201.5	NA	12.22	NA	13.0	5.5	NC		NC	
7L14-24	201.5	NA	12.22	NA	13.0	6.5	NC		NC	
7L14-25	201.5	NA	12.22	NA	13.0	5.5	NC		NC	
7L15	NA	NA	NA	NA	NA	NR	WIPE	b	WIPE	b
7M05	174.2	NA	10.69	NA	10.79	9.5	16		0.8	
7M06	174.2	NA	10.69	NA	10.79	8.5	28	a	0.5	
7M07	NA	NA	NA	NA	NA	NR	2		1	
7M08	NA	NA	NA	NA	NA	NR	2		0.3	
7M09	NA	NA	NA	NA	NA	NR	15		0.6	
7M10	NA	NA	NA	NA	NA	NR	WIPE	b	WIPE	b
7M11	NA	NA	NA	NA	NA	NR	WIPE	b	WIPE	b
7M12	NA	NA	NA	NA	NA	NR	1		0.6	
7M13	NA	NA	NA	NA	NA	NR	10		1.2	
7M14	NA	NA	NA	NA	NA	NR	7		0.7	
7M15	NA	NA	NA	NA	NA	NR	WIPE	b	WIPE	b
7N16	NA	NA	NA	NA	NA	NR	WIPE	b	WIPE	b
7N16-01	178.1	NA	11.70	NA	13.0	6.0	NC		NC	
7N16-02	178.1	NA	11.70	NA	13.0	6.5	NC		NC	
7N16-03	178.1	NA	11.70	NA	13.0	5.5	NC		NC	
7N16-04	178.1	NA	11.70	NA	13.0	6.0	NC		NC	
7N16-05	178.1	NA	11.70	NA	13.0	9.0	NC		NC	
7N16-06	178.1	NA	11.70	NA	13.0	9.5	NC		NC	

APPENDIX C
RADIOLOGICAL DATA (FIDLER SURVEY & MOUND SOIL SCREENING FACILITY) FOR AREA 7

	FIDLER SURVEY DATA						MOUND SOIL SCREENING FACILITY DATA			
SMPID	Contamination Criteria CH1	FIDLER Readings CH1	Contamination Criteria CH2	FIDLER Readings CH2	Contamination Criteria Out Channel	FIDLER Readings Out Channel	Plutonium - 238		Thorium - 232	
	Units: CPM	Units: CPM	Units: KCPM	Units: KCPM	Units: KCPM	Units: KCPM	Units: pCi/g		Units: pCi/g	
	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	Note:	RESULTS	Note:
7N16-07	178.1	NA	11.70	NA	13.0	8.5	NC		NC	
7N16-08	178.1	NA	11.70	NA	13.0	6.0	NC		NC	
7N16-09	178.1	NA	11.70	NA	13.0	6.5	NC		NC	
7N16-10	178.1	NA	11.70	NA	13.0	5.5	NC		NC	
7N16-11	178.1	NA	11.70	NA	13.0	6.0	NC		NC	
7N16-12	178.1	NA	11.70	NA	13.0	6.5	NC		NC	
7N16-13	178.1	NA	11.70	NA	13.0	7.0	NC		NC	
7N16-14	178.1	NA	11.70	NA	13.0	7.0	NC		NC	
7N16-15	178.1	NA	11.70	NA	13.0	10.0	NC		NC	
7N16-16	178.1	NA	11.70	NA	13.0	9.0	NC		NC	
7N16-17	178.1	NA	11.70	NA	13.0	10.0	NC		NC	
7N16-18	178.1	NA	11.70	NA	13.0	10.0	NC		NC	
7N16-19	178.1	NA	11.70	NA	13.0	7.0	NC		NC	
7N16-20	178.1	NA	11.70	NA	13.0	7.0	NC		NC	
7N16-21	178.1	NA	11.70	NA	13.0	10.5	NC		NC	
7N16-22	178.1	NA	11.70	NA	13.0	10.5	NC		NC	
7N16-23	178.1	NA	11.70	NA	13.0	10.5	NC		NC	
7N16-24	178.1	NA	11.70	NA	13.0	9.5	NC		NC	
7N16-25	178.1	NA	11.70	NA	13.0	10.0	NC		NC	
7N17	NA	NA	NA	NA	NA	NR	21		1	
7N17-01	178.1	NA	11.70	NA	13.0	11.0	NC		NC	
7N17-02	178.1	NA	11.70	NA	13.0	11.0	NC		NC	
7N17-03	178.1	NA	11.70	NA	13.0	9.5	NC		NC	
7N17-04	178.1	NA	11.70	NA	13.0	9.5	NC		NC	
7N17-05	178.1	NA	11.70	NA	13.0	10.0	NC		NC	
7N17-06	178.1	NA	11.70	NA	13.0	10.5	NC		NC	
7N17-07	178.1	NA	11.70	NA	13.0	10.0	NC		NC	
7N17-08	178.1	NA	11.70	NA	13.0	10.5	NC		NC	
7N17-09	178.1	NA	11.70	NA	13.0	11.5	NC		NC	
7N17-10	178.1	NA	11.70	NA	13.0	12.0	NC		NC	
7N17-11	178.1	NA	11.70	NA	13.0	13.0	NC		NC	

APPENDIX C
RADIOLOGICAL DATA (FIDLER SURVEY & MOUND SOIL SCREENING FACILITY) FOR AREA 7

	FIDLER SURVEY DATA						MOUND SOIL SCREENING FACILITY DATA			
SMPID	Contamination Criteria CH1	FIDLER Readings CH1	Contamination Criteria CH2	FIDLER Readings CH2	Contamination Criteria Out Channel	FIDLER Readings Out Channel	Plutonium - 238		Thorium - 232	
	Units: CPM	Units: CPM	Units: KCPM	Units: KCPM	Units: KCPM	Units: KCPM	Units: pCi/g		Units: pCi/g	
	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	Note:	RESULTS	Note:
7N17-12	178.1	NA	11.70	NA	13.0	13.0	NC		NC	
7N17-13	178.1	NA	11.70	NA	13.0	10.0	NC		NC	
7N17-14	178.1	NA	11.70	NA	13.0	10.0	NC		NC	
7N17-15	178.1	NA	11.70	NA	13.0	10.5	NC		NC	
7N17-16	178.1	NA	11.70	NA	13.0	10.5	NC		NC	
7N17-17	178.1	NA	11.70	NA	13.0	10.0	NC		NC	
7N17-18	178.1	NA	11.70	NA	13.0	10.5	NC		NC	
7N17-19	178.1	NA	11.70	NA	13.0	12.0	NC		NC	
7N17-20	178.1	NA	11.70	NA	13.0	12.5	NC		NC	
7N17-21	178.1	NA	11.70	NA	13.0	13.0	NC		NC	
7N17-22	178.1	NA	11.70	NA	13.0	12.5	NC		NC	
7N17-23	178.1	NA	11.70	NA	13.0	10.0	NC		NC	
7N17-24	178.1	NA	11.70	NA	13.0	9.5	NC		NC	
7N17-25	178.1	NA	11.70	NA	13.0	10.5	NC		NC	
7N18	NA	NA	NA	NA	NA	NR	24		1.2	
7N18-01	178.1	NA	11.70	NA	13.0	13.0	NC		NC	
7N18-02	178.1	NA	11.70	NA	13.0	11.5	NC		NC	
7N18-03	178.1	NA	11.70	NA	13.0	10.0	NC		NC	
7N18-04	178.1	NA	11.70	NA	13.0	10.0	NC		NC	
7N18-05	178.1	NA	11.70	NA	13.0	11.0	NC		NC	
7N18-06	178.1	NA	11.70	NA	13.0	11.0	NC		NC	
7N18-07	178.1	NA	11.70	NA	13.0	10.0	NC		NC	
7N18-08	178.1	NA	11.70	NA	13.0	11.5	NC		NC	
7N18-09	178.1	NA	11.70	NA	13.0	12.0	NC		NC	
7N18-10	178.1	NA	11.70	NA	13.0	13.0	NC		NC	
7N18-11	178.1	NA	11.70	NA	13.0	13.5	NC		NC	
7N18-12	178.1	NA	11.70	NA	13.0	12.5	NC		NC	
7N18-13	178.1	NA	11.70	NA	13.0	12.0	NC		NC	
7N18-14	178.1	NA	11.70	NA	13.0	11.5	NC		NC	
7N18-15	178.1	NA	11.70	NA	13.0	11.0	NC		NC	
7N18-16	178.1	NA	11.70	NA	13.0	11.5	NC		NC	

APPENDIX C
RADIOLOGICAL DATA (FIDLER SURVEY & MOUND SOIL SCREENING FACILITY) FOR AREA 7

	FIDLER SURVEY DATA						MOUND SOIL SCREENING FACILITY DATA			
SMPID	Contamination Criteria CH1	FIDLER Readings CH1	Contamination Criteria CH2	FIDLER Readings CH2	Contamination Criteria Out Channel	FIDLER Readings Out Channel	Plutonium - 238		Thorium - 232	
	Units: CPM	Units: CPM	Units: KCPM	Units: KCPM	Units: KCPM	Units: KCPM	Units: pCi/g		Units: pCi/g	
	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	Note:	RESULTS	Note:
7N18-17	178.1	NA	11.70	NA	13.0	11.0	NC		NC	
7N18-18	178.1	NA	11.70	NA	13.0	12.0	NC		NC	
7N18-19	178.1	NA	11.70	NA	13.0	12.0	NC		NC	
7N18-20	178.1	NA	11.70	NA	13.0	13.0	NC		NC	
7N18-21	178.1	NA	11.70	NA	13.0	13.0	NC		NC	
7N18-22	178.1	NA	11.70	NA	13.0	11.5	NC		NC	
7N18-23	178.1	NA	11.70	NA	13.0	11.0	NC		NC	
7N18-24	178.1	NA	11.70	NA	13.0	11.0	NC		NC	
7N18-25	178.1	NA	11.70	NA	13.0	11.5	NC		NC	
7N19	NA	NA	NA	NA	NA	NR	27	a	1.1	
7N19-01	178.1	NA	11.70	NA	13.0	13.0	NC		NC	
7N19-02	178.1	NA	11.70	NA	13.0	13.0	NC		NC	
7N19-03	178.1	NA	11.70	NA	13.0	12.5	NC		NC	
7N19-04	178.1	NA	11.70	NA	13.0	11.5	NC		NC	
7N19-05	178.1	NA	11.70	NA	13.0	11.0	NC		NC	
7N19-06	178.1	NA	11.70	NA	13.0	11.5	NC		NC	
7N19-07	178.1	NA	11.70	NA	13.0	11.0	NC		NC	
7N19-08	178.1	NA	11.70	NA	13.0	12.5	NC		NC	
7N19-09	178.1	NA	11.70	NA	13.0	12.5	NC		NC	
7N19-10	178.1	NA	11.70	NA	13.0	13.5	NC		NC	
7N19-11	178.1	NA	11.70	NA	13.0	12.5	NC		NC	
7N19-12	178.1	NA	11.70	NA	13.0	13.0	NC		NC	
7N19-13	178.1	NA	11.70	NA	13.0	12.5	NC		NC	
7N19-14	178.1	NA	11.70	NA	13.0	11.5	NC		NC	
7N19-15	178.1	NA	11.70	NA	13.0	11.5	NC		NC	
7N19-16	178.1	NA	11.70	NA	13.0	11.5	NC		NC	
7N19-17	178.1	NA	11.70	NA	13.0	12.0	NC		NC	
7N19-18	178.1	NA	11.70	NA	13.0	13.5	NC		NC	
7N19-19	178.1	NA	11.70	NA	13.0	13.5	NC		NC	
7N19-20	178.1	NA	11.70	NA	13.0	13.5	NC		NC	
7N19-21	178.1	NA	11.70	NA	13.0	13.5	NC		NC	

APPENDIX C
RADIOLOGICAL DATA (FIDLER SURVEY & MOUND SOIL SCREENING FACILITY) FOR AREA 7

	FIDLER SURVEY DATA						MOUND SOIL SCREENING FACILITY DATA			
SMPID	Contamination Criteria CH1	FIDLER Readings CH1	Contamination Criteria CH2	FIDLER Readings CH2	Contamination Criteria Out Channel	FIDLER Readings Out Channel	Plutonium - 238		Thorium - 232	
	Units: CPM	Units: CPM	Units: KCPM	Units: KCPM	Units: KCPM	Units: KCPM	Units: pCi/g		Units: pCi/g	
	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	Note:	RESULTS	Note:
7N19-22	178.1	NA	11.70	NA	13.0	12.5	NC		NC	
7N19-23	178.1	NA	11.70	NA	13.0	11.5	NC		NC	
7N19-24	178.1	NA	11.70	NA	13.0	12.0	NC		NC	
7N19-25	178.1	NA	11.70	NA	13.0	12.5	NC		NC	
7N20	NA	NA	NA	NA	NA	NR	17		1.1	
7N20-01	178.1	NA	11.70	NA	13.0	13.0	NC		NC	
7N20-02	178.1	NA	11.70	NA	13.0	13.5	NC		NC	
7N20-03	178.1	NA	11.70	NA	13.0	13.0	NC		NC	
7N20-04	178.1	NA	11.70	NA	13.0	12.0	NC		NC	
7N20-05	178.1	NA	11.70	NA	13.0	11.0	NC		NC	
7N20-06	178.1	NA	11.70	NA	13.0	12.0	NC		NC	
7N20-07	178.1	NA	11.70	NA	13.0	12.0	NC		NC	
7N20-08	178.1	NA	11.70	NA	13.0	13.0	NC		NC	
7N20-09	178.1	NA	11.70	NA	13.0	14.0	NC		NC	
7N20-10	178.1	NA	11.70	NA	13.0	13.5	NC		NC	
7N20-11	178.1	NA	11.70	NA	13.0	13.5	NC		NC	
7N20-12	178.1	NA	11.70	NA	13.0	13.5	NC		NC	
7N20-13	178.1	NA	11.70	NA	13.0	13.5	NC		NC	
7N20-14	178.1	NA	11.70	NA	13.0	12.5	NC		NC	
7N20-15	178.1	NA	11.70	NA	13.0	11.5	NC		NC	
7N20-16	178.1	NA	11.70	NA	13.0	11.0	NC		NC	
7N20-17	178.1	NA	11.70	NA	13.0	11.0	NC		NC	
7N20-18	178.1	NA	11.70	NA	13.0	14.0	NC		NC	
7N20-19	178.1	NA	11.70	NA	13.0	16.0	NC		NC	
7N20-20	178.1	NA	11.70	NA	13.0	13.5	NC		NC	
7N20-21	178.1	NA	11.70	NA	13.0	13.5	NC		NC	
7N20-22	178.1	NA	11.70	NA	13.0	16.0	NC		NC	
7N20-23	178.1	375	11.70	37	13.0	18.0	NC		NC	
7N20-24	178.1	NA	11.70	NA	13.0	12.5	NC		NC	
7N20-25	178.1	NA	11.70	NA	13.0	12.0	NC		NC	
7N21	NA	NA	NA	NA	NA	NR	19		1.4	

APPENDIX C
RADIOLOGICAL DATA (FIDLER SURVEY & MOUND SOIL SCREENING FACILITY) FOR AREA 7

	FIDLER SURVEY DATA						MOUND SOIL SCREENING FACILITY DATA			
SMPID	Contamination Criteria CH1	FIDLER Readings CH1	Contamination Criteria CH2	FIDLER Readings CH2	Contamination Criteria Out Channel	FIDLER Readings Out Channel	Plutonium - 238		Thorium - 232	
	Units: CPM	Units: CPM	Units: KCPM	Units: KCPM	Units: KCPM	Units: KCPM	Units: pCi/g		Units: pCi/g	
	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	Note:	RESULTS	Note:
7O16	NA	NA	NA	NA	NA	NR	6		0.8	
7O16-01	178.1	NA	11.70	NA	13.0	9.5	NC		NC	
7O16-02	178.1	NA	11.70	NA	13.0	9.5	NC		NC	
7O16-03	178.1	NA	11.70	NA	13.0	9.5	NC		NC	
7O16-04	178.1	NA	11.70	NA	13.0	10.5	NC		NC	
7O16-05	178.1	NA	11.70	NA	13.0	10.5	NC		NC	
7O16-06	178.1	NA	11.70	NA	13.0	10.5	NC		NC	
7O16-07	178.1	NA	11.70	NA	13.0	10.5	NC		NC	
7O16-08	178.1	NA	11.70	NA	13.0	10.0	NC		NC	
7O16-09	178.1	NA	11.70	NA	13.0	10.0	NC		NC	
7O16-10	178.1	NA	11.70	NA	13.0	9.0	NC		NC	
7O16-11	178.1	NA	11.70	NA	13.0	10.0	NC		NC	
7O16-12	178.1	NA	11.70	NA	13.0	10.0	NC		NC	
7O16-13	178.1	NA	11.70	NA	13.0	10.0	NC		NC	
7O16-14	178.1	NA	11.70	NA	13.0	10.0	NC		NC	
7O16-15	178.1	NA	11.70	NA	13.0	10.0	NC		NC	
7O16-16	178.1	NA	11.70	NA	13.0	10.0	NC		NC	
7O16-17	178.1	NA	11.70	NA	13.0	10.0	NC		NC	
7O16-18	178.1	NA	11.70	NA	13.0	10.0	NC		NC	
7O16-19	178.1	NA	11.70	NA	13.0	10.0	NC		NC	
7O16-20	178.1	NA	11.70	NA	13.0	10.0	NC		NC	
7O16-21	178.1	NA	11.70	NA	13.0	10.0	NC		NC	
7O16-22	178.1	NA	11.70	NA	13.0	10.0	NC		NC	
7O16-23	178.1	NA	11.70	NA	13.0	9.5	NC		NC	
7O16-24	178.1	NA	11.70	NA	13.0	10.0	NC		NC	
7O16-25	178.1	NA	11.70	NA	13.0	9.5	NC		NC	
7O17	NA	NA	NA	NA	NA	NR	22		0.9	
7O17-01	178.1	NA	11.70	NA	13.0	10.0	NC		NC	
7O17-02	178.1	NA	11.70	NA	13.0	10.0	NC		NC	
7O17-03	178.1	NA	11.70	NA	13.0	10.0	NC		NC	
7O17-04	178.1	NA	11.70	NA	13.0	10.5	NC		NC	

APPENDIX C
RADIOLOGICAL DATA (FIDLER SURVEY & MOUND SOIL SCREENING FACILITY) FOR AREA 7

	FIDLER SURVEY DATA						MOUND SOIL SCREENING FACILITY DATA			
SMPID	Contamination Criteria CH1	FIDLER Readings CH1	Contamination Criteria CH2	FIDLER Readings CH2	Contamination Criteria Out Channel	FIDLER Readings Out Channel	Plutonium - 238		Thorium - 232	
	Units: CPM	Units: CPM	Units: KCPM	Units: KCPM	Units: KCPM	Units: KCPM	Units: pCi/g		Units: pCi/g	
	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	Note:	RESULTS	Note:
7O17-05	178.1	NA	11.70	NA	13.0	10.0	NC		NC	
7O17-06	178.1	NA	11.70	NA	13.0	10.0	NC		NC	
7O17-07	178.1	NA	11.70	NA	13.0	10.0	NC		NC	
7O17-08	178.1	NA	11.70	NA	13.0	10.0	NC		NC	
7O17-09	178.1	NA	11.70	NA	13.0	10.0	NC		NC	
7O17-10	178.1	NA	11.70	NA	13.0	10.0	NC		NC	
7O17-11	178.1	NA	11.70	NA	13.0	9.5	NC		NC	
7O17-12	178.1	NA	11.70	NA	13.0	10.0	NC		NC	
7O17-13	178.1	NA	11.70	NA	13.0	11.0	NC		NC	
7O17-14	178.1	NA	11.70	NA	13.0	10.5	NC		NC	
7O17-15	178.1	NA	11.70	NA	13.0	10.5	NC		NC	
7O17-16	178.1	NA	11.70	NA	13.0	10.0	NC		NC	
7O17-17	178.1	NA	11.70	NA	13.0	10.0	NC		NC	
7O17-18	178.1	NA	11.70	NA	13.0	10.0	NC		NC	
7O17-19	178.1	NA	11.70	NA	13.0	9.5	NC		NC	
7O17-20	178.1	NA	11.70	NA	13.0	10.0	NC		NC	
7O17-21	178.1	NA	11.70	NA	13.0	10.0	NC		NC	
7O17-22	178.1	NA	11.70	NA	13.0	11.0	NC		NC	
7O17-23	178.1	NA	11.70	NA	13.0	11.0	NC		NC	
7O17-24	178.1	NA	11.70	NA	13.0	11.0	NC		NC	
7O17-25	178.1	NA	11.70	NA	13.0	10.5	NC		NC	
7O18	NA	NA	NA	NA	NA	NR	22		1.1	
7O18-01	178.1	NA	11.70	NA	13.0	11.0	NC		NC	
7O18-02	178.1	NA	11.70	NA	13.0	10.0	NC		NC	
7O18-03	178.1	NA	11.70	NA	13.0	10.5	NC		NC	
7O18-04	178.1	NA	11.70	NA	13.0	10.5	NC		NC	
7O18-05	178.1	NA	11.70	NA	13.0	9.5	NC		NC	
7O18-06	178.1	NA	11.70	NA	13.0	10.5	NC		NC	
7O18-07	178.1	NA	11.70	NA	13.0	11.0	NC		NC	
7O18-08	178.1	NA	11.70	NA	13.0	11.0	NC		NC	
7O18-09	178.1	NA	11.70	NA	13.0	11.0	NC		NC	

APPENDIX C
RADIOLOGICAL DATA (FIDLER SURVEY & MOUND SOIL SCREENING FACILITY) FOR AREA 7

	FIDLER SURVEY DATA						MOUND SOIL SCREENING FACILITY DATA			
SMPID	Contamination Criteria CH1	FIDLER Readings CH1	Contamination Criteria CH2	FIDLER Readings CH2	Contamination Criteria Out Channel	FIDLER Readings Out Channel	Plutonium - 238		Thorium - 232	
	Units: CPM	Units: CPM	Units: KCPM	Units: KCPM	Units: KCPM	Units: KCPM	Units: pCi/g		Units: pCi/g	
	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	Note:	RESULTS	Note:
7O18-10	178.1	NA	11.70	NA	13.0	11.0	NC		NC	
7O18-11	178.1	NA	11.70	NA	13.0	11.0	NC		NC	
7O18-12	178.1	NA	11.70	NA	13.0	11.0	NC		NC	
7O18-13	178.1	NA	11.70	NA	13.0	11.0	NC		NC	
7O18-14	178.1	NA	11.70	NA	13.0	10.5	NC		NC	
7O18-15	178.1	NA	11.70	NA	13.0	10.0	NC		NC	
7O18-16	178.1	NA	11.70	NA	13.0	10.5	NC		NC	
7O18-17	178.1	NA	11.70	NA	13.0	10.5	NC		NC	
7O18-18	178.1	NA	11.70	NA	13.0	11.0	NC		NC	
7O18-19	178.1	NA	11.70	NA	13.0	11.5	NC		NC	
7O18-20	178.1	NA	11.70	NA	13.0	10.5	NC		NC	
7O18-21	178.1	NA	11.70	NA	13.0	11.0	NC		NC	
7O18-22	178.1	NA	11.70	NA	13.0	11.0	NC		NC	
7O18-23	178.1	NA	11.70	NA	13.0	10.5	NC		NC	
7O18-24	178.1	NA	11.70	NA	13.0	11.0	NC		NC	
7O18-25	178.1	NA	11.70	NA	13.0	10.5	NC		NC	
7O19	NA	NA	NA	NA	NA	NR	14		1	
7O19-01	178.1	NA	11.70	NA	13.0	11.5	NC		NC	
7O19-02	178.1	NA	11.70	NA	13.0	11.0	NC		NC	
7O19-03	178.1	NA	11.70	NA	13.0	11.0	NC		NC	
7O19-04	178.1	NA	11.70	NA	13.0	11.0	NC		NC	
7O19-05	178.1	NA	11.70	NA	13.0	11.0	NC		NC	
7O19-06	178.1	NA	11.70	NA	13.0	10.5	NC		NC	
7O19-07	178.1	NA	11.70	NA	13.0	11.0	NC		NC	
7O19-08	178.1	NA	11.70	NA	13.0	10.5	NC		NC	
7O19-09	178.1	NA	11.70	NA	13.0	11.0	NC		NC	
7O19-10	178.1	NA	11.70	NA	13.0	11.5	NC		NC	
7O19-11	178.1	NA	11.70	NA	13.0	11.0	NC		NC	
7O19-12	178.1	NA	11.70	NA	13.0	11.0	NC		NC	
7O19-13	178.1	NA	11.70	NA	13.0	11.0	NC		NC	
7O19-14	178.1	NA	11.70	NA	13.0	11.0	NC		NC	

APPENDIX C
RADIOLOGICAL DATA (FIDLER SURVEY & MOUND SOIL SCREENING FACILITY) FOR AREA 7

	FIDLER SURVEY DATA						MOUND SOIL SCREENING FACILITY DATA			
SMPID	Contamination Criteria CH1	FIDLER Readings CH1	Contamination Criteria CH2	FIDLER Readings CH2	Contamination Criteria Out Channel	FIDLER Readings Out Channel	Plutonium - 238		Thorium - 232	
	Units: CPM	Units: CPM	Units: KCPM	Units: KCPM	Units: KCPM	Units: KCPM	Units: pCi/g		Units: pCi/g	
	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	Note:	RESULTS	Note:
7O19-15	178.1	NA	11.70	NA	13.0	11.0	NC		NC	
7O19-16	178.1	NA	11.70	NA	13.0	11.0	NC		NC	
7O19-17	178.1	NA	11.70	NA	13.0	10.5	NC		NC	
7O19-18	178.1	NA	11.70	NA	13.0	11.0	NC		NC	
7O19-19	178.1	NA	11.70	NA	13.0	11.0	NC		NC	
7O19-20	178.1	NA	11.70	NA	13.0	11.5	NC		NC	
7O19-21	178.1	NA	11.70	NA	13.0	11.0	NC		NC	
7O19-22	178.1	NA	11.70	NA	13.0	11.5	NC		NC	
7O19-23	178.1	NA	11.70	NA	13.0	11.5	NC		NC	
7O19-24	178.1	NA	11.70	NA	13.0	11.0	NC		NC	
7O19-25	178.1	NA	11.70	NA	13.0	11.5	NC		NC	
7O20	NA	NA	NA	NA	NA	NR	8		0.9	
7O20-01	178.1	NA	11.70	NA	13.0	11.0	NC		NC	
7O20-02	178.1	NA	11.70	NA	13.0	11.5	NC		NC	
7O20-03	178.1	NA	11.70	NA	13.0	11.0	NC		NC	
7O20-04	178.1	NA	11.70	NA	13.0	11.0	NC		NC	
7O20-05	178.1	NA	11.70	NA	13.0	11.5	NC		NC	
7O20-06	178.1	NA	11.70	NA	13.0	11.0	NC		NC	
7O20-07	178.1	NA	11.70	NA	13.0	10.5	NC		NC	
7O20-08	178.1	NA	11.70	NA	13.0	11.5	NC		NC	
7O20-09	178.1	NA	11.70	NA	13.0	11.0	NC		NC	
7O20-10	178.1	NA	11.70	NA	13.0	11.5	NC		NC	
7O20-11	178.1	NA	11.70	NA	13.0	11.0	NC		NC	
7O20-12	178.1	NA	11.70	NA	13.0	10.5	NC		NC	
7O20-13	178.1	NA	11.70	NA	13.0	11.0	NC		NC	
7O20-14	178.1	NA	11.70	NA	13.0	11.0	NC		NC	
7O20-15	178.1	NA	11.70	NA	13.0	11.0	NC		NC	
7O20-16	178.1	NA	11.70	NA	13.0	11.0	NC		NC	
7O20-17	178.1	NA	11.70	NA	13.0	10.5	NC		NC	
7O20-18	178.1	NA	11.70	NA	13.0	11.5	NC		NC	
7O20-19	178.1	NA	11.70	NA	13.0	11.0	NC		NC	

APPENDIX C
RADIOLOGICAL DATA (FIDLER SURVEY & MOUND SOIL SCREENING FACILITY) FOR AREA 7

	FIDLER SURVEY DATA						MOUND SOIL SCREENING FACILITY DATA			
SMPID	Contamination Criteria CH1	FIDLER Readings CH1	Contamination Criteria CH2	FIDLER Readings CH2	Contamination Criteria Out Channel	FIDLER Readings Out Channel	Plutonium - 238		Thorium - 232	
	Units: CPM	Units: CPM	Units: KCPM	Units: KCPM	Units: KCPM	Units: KCPM	Units: pCi/g		Units: pCi/g	
	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	Note:	RESULTS	Note:
7O20-20	178.1	NA	11.70	NA	13.0	11.5	NC		NC	
7O20-21	178.1	NA	11.70	NA	13.0	11.5	NC		NC	
7O20-22	178.1	NA	11.70	NA	13.0	11.5	NC		NC	
7O20-23	178.1	NA	11.70	NA	13.0	11.0	NC		NC	
7O20-24	178.1	NA	11.70	NA	13.0	10.5	NC		NC	
7O20-25	178.1	NA	11.70	NA	13.0	10.5	NC		NC	
7O21	NA	NA	NA	NA	NA	NR	25	a	1.1	
7P16	NA	NA	NA	NA	NA	NR	28	a	0.9	
7P16-01	178.1	NA	11.70	NA	13.0	10.0	NC		NC	
7P16-02	178.1	NA	11.70	NA	13.0	10.5	NC		NC	
7P16-03	178.1	NA	11.70	NA	13.0	10.0	NC		NC	
7P16-04	178.1	NA	11.70	NA	13.0	10.0	NC		NC	
7P16-05	178.1	NA	11.70	NA	13.0	11.5	NC		NC	
7P16-06	178.1	NA	11.70	NA	13.0	11.0	NC		NC	
7P16-07	178.1	NA	11.70	NA	13.0	10.0	NC		NC	
7P16-08	178.1	NA	11.70	NA	13.0	10.0	NC		NC	
7P16-09	178.1	NA	11.70	NA	13.0	10.0	NC		NC	
7P16-10	178.1	NA	11.70	NA	13.0	9.5	NC		NC	
7P16-11	178.1	NA	11.70	NA	13.0	9.5	NC		NC	
7P16-12	178.1	NA	11.70	NA	13.0	10.5	NC		NC	
7P16-13	178.1	NA	11.70	NA	13.0	9.5	NC		NC	
7P16-14	178.1	NA	11.70	NA	13.0	10.5	NC		NC	
7P16-15	178.1	NA	11.70	NA	13.0	10.0	NC		NC	
7P16-16	178.1	NA	11.70	NA	13.0	10.0	NC		NC	
7P16-17	178.1	NA	11.70	NA	13.0	10.0	NC		NC	
7P16-18	178.1	NA	11.70	NA	13.0	10.5	NC		NC	
7P16-19	178.1	NA	11.70	NA	13.0	10.5	NC		NC	
7P16-20	178.1	NA	11.70	NA	13.0	10.0	NC		NC	
7P16-21	178.1	NA	11.70	NA	13.0	10.5	NC		NC	
7P16-22	178.1	NA	11.70	NA	13.0	10.0	NC		NC	
7P16-23	178.1	NA	11.70	NA	13.0	9.5	NC		NC	

APPENDIX C
RADIOLOGICAL DATA (FIDLER SURVEY & MOUND SOIL SCREENING FACILITY) FOR AREA 7

	FIDLER SURVEY DATA						MOUND SOIL SCREENING FACILITY DATA			
SMPID	Contamination Criteria CH1	FIDLER Readings CH1	Contamination Criteria CH2	FIDLER Readings CH2	Contamination Criteria Out Channel	FIDLER Readings Out Channel	Plutonium - 238		Thorium - 232	
	Units: CPM	Units: CPM	Units: KCPM	Units: KCPM	Units: KCPM	Units: KCPM	Units: pCi/g		Units: pCi/g	
	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	Note:	RESULTS	Note:
7P16-24	178.1	NA	11.70	NA	13.0	9.5	NC		NC	
7P16-25	178.1	NA	11.70	NA	13.0	9.5	NC		NC	
7P17	NA	NA	NA	NA	NA	NR	14		1.2	
7P17-01	178.1	NA	11.70	NA	13.0	10.5	NC		NC	
7P17-02	178.1	NA	11.70	NA	13.0	10.5	NC		NC	
7P17-03	178.1	NA	11.70	NA	13.0	10.0	NC		NC	
7P17-04	178.1	NA	11.70	NA	13.0	10.5	NC		NC	
7P17-05	178.1	NA	11.70	NA	13.0	10.0	NC		NC	
7P17-06	178.1	NA	11.70	NA	13.0	9.5	NC		NC	
7P17-07	178.1	NA	11.70	NA	13.0	10.5	NC		NC	
7P17-08	178.1	NA	11.70	NA	13.0	10.0	NC		NC	
7P17-09	178.1	NA	11.70	NA	13.0	10.0	NC		NC	
7P17-10	178.1	NA	11.70	NA	13.0	10.0	NC		NC	
7P17-11	178.1	NA	11.70	NA	13.0	10.0	NC		NC	
7P17-12	178.1	NA	11.70	NA	13.0	10.0	NC		NC	
7P17-13	178.1	NA	11.70	NA	13.0	10.5	NC		NC	
7P17-14	178.1	NA	11.70	NA	13.0	10.0	NC		NC	
7P17-15	178.1	NA	11.70	NA	13.0	10.0	NC		NC	
7P17-16	178.1	NA	11.70	NA	13.0	10.5	NC		NC	
7P17-17	178.1	NA	11.70	NA	13.0	10.0	NC		NC	
7P17-18	178.1	NA	11.70	NA	13.0	11.0	NC		NC	
7P17-19	178.1	NA	11.70	NA	13.0	10.0	NC		NC	
7P17-20	178.1	NA	11.70	NA	13.0	10.0	NC		NC	
7P17-21	178.1	NA	11.70	NA	13.0	9.5	NC		NC	
7P17-22	178.1	NA	11.70	NA	13.0	10.0	NC		NC	
7P17-23	178.1	NA	11.70	NA	13.0	10.5	NC		NC	
7P17-24	178.1	NA	11.70	NA	13.0	10.0	NC		NC	
7P17-25	178.1	NA	11.70	NA	13.0	10.0	NC		NC	
7P18	NA	NA	NA	NA	NA	NR	7		0.5	
7P18-01	178.1	NA	11.70	NA	13.0	8.5	NC		NC	
7P18-02	178.1	NA	11.70	NA	13.0	10.0	NC		NC	

APPENDIX C
RADIOLOGICAL DATA (FIDLER SURVEY & MOUND SOIL SCREENING FACILITY) FOR AREA 7

	FIDLER SURVEY DATA						MOUND SOIL SCREENING FACILITY DATA			
SMPID	Contamination Criteria CH1	FIDLER Readings CH1	Contamination Criteria CH2	FIDLER Readings CH2	Contamination Criteria Out Channel	FIDLER Readings Out Channel	Plutonium - 238		Thorium - 232	
	Units: CPM	Units: CPM	Units: KCPM	Units: KCPM	Units: KCPM	Units: KCPM	Units: pCi/g		Units: pCi/g	
	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	Note:	RESULTS	Note:
7P18-03	178.1	NA	11.70	NA	13.0	10.0	NC		NC	
7P18-04	178.1	NA	11.70	NA	13.0	10.5	NC		NC	
7P18-05	178.1	NA	11.70	NA	13.0	10.0	NC		NC	
7P18-06	178.1	NA	11.70	NA	13.0	10.0	NC		NC	
7P18-07	178.1	NA	11.70	NA	13.0	9.0	NC		NC	
7P18-08	178.1	NA	11.70	NA	13.0	10.0	NC		NC	
7P18-09	178.1	NA	11.70	NA	13.0	10.0	NC		NC	
7P18-10	178.1	NA	11.70	NA	13.0	10.0	NC		NC	
7P18-11	178.1	NA	11.70	NA	13.0	10.5	NC		NC	
7P18-12	178.1	NA	11.70	NA	13.0	10.0	NC		NC	
7P18-13	178.1	NA	11.70	NA	13.0	10.0	NC		NC	
7P18-14	178.1	NA	11.70	NA	13.0	10.0	NC		NC	
7P18-15	178.1	NA	11.70	NA	13.0	10.0	NC		NC	
7P18-16	178.1	NA	11.70	NA	13.0	10.5	NC		NC	
7P18-17	178.1	NA	11.70	NA	13.0	9.5	NC		NC	
7P18-18	178.1	NA	11.70	NA	13.0	10.5	NC		NC	
7P18-19	178.1	NA	11.70	NA	13.0	11.0	NC		NC	
7P18-20	178.1	NA	11.70	NA	13.0	11.0	NC		NC	
7P18-21	178.1	NA	11.70	NA	13.0	11.0	NC		NC	
7P18-22	178.1	NA	11.70	NA	13.0	10.5	NC		NC	
7P18-23	178.1	NA	11.70	NA	13.0	10.0	NC		NC	
7P18-24	178.1	NA	11.70	NA	13.0	9.5	NC		NC	
7P18-25	178.1	NA	11.70	NA	13.0	10.5	NC		NC	
7P19	NA	NA	NA	NA	NA	NR	13		0.9	
7P19-01	178.1	NA	11.70	NA	13.0	10.5	NC		NC	
7P19-02	178.1	NA	11.70	NA	13.0	10.0	NC		NC	
7P19-03	178.1	NA	11.70	NA	13.0	11.0	NC		NC	
7P19-04	178.1	NA	11.70	NA	13.0	9.5	NC		NC	
7P19-05	178.1	NA	11.70	NA	13.0	10.0	NC		NC	
7P19-06	178.1	NA	11.70	NA	13.0	10.0	NC		NC	
7P19-07	178.1	NA	11.70	NA	13.0	10.5	NC		NC	

APPENDIX C
RADIOLOGICAL DATA (FIDLER SURVEY & MOUND SOIL SCREENING FACILITY) FOR AREA 7

	FIDLER SURVEY DATA						MOUND SOIL SCREENING FACILITY DATA			
SMPID	Contamination Criteria CH1	FIDLER Readings CH1	Contamination Criteria CH2	FIDLER Readings CH2	Contamination Criteria Out Channel	FIDLER Readings Out Channel	Plutonium - 238		Thorium - 232	
	Units: CPM	Units: CPM	Units: KCPM	Units: KCPM	Units: KCPM	Units: KCPM	Units: pCi/g		Units: pCi/g	
	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	Note:	RESULTS	Note:
7P19-08	178.1	NA	11.70	NA	13.0	10.5	NC		NC	
7P19-09	178.1	NA	11.70	NA	13.0	10.5	NC		NC	
7P19-10	178.1	NA	11.70	NA	13.0	10.5	NC		NC	
7P19-11	178.1	NA	11.70	NA	13.0	10.5	NC		NC	
7P19-12	178.1	NA	11.70	NA	13.0	10.5	NC		NC	
7P19-13	178.1	NA	11.70	NA	13.0	10.5	NC		NC	
7P19-14	178.1	NA	11.70	NA	13.0	10.5	NC		NC	
7P19-15	178.1	NA	11.70	NA	13.0	10.0	NC		NC	
7P19-16	178.1	NA	11.70	NA	13.0	10.0	NC		NC	
7P19-17	178.1	NA	11.70	NA	13.0	10.0	NC		NC	
7P19-18	178.1	NA	11.70	NA	13.0	11.0	NC		NC	
7P19-19	178.1	NA	11.70	NA	13.0	10.5	NC		NC	
7P19-20	178.1	NA	11.70	NA	13.0	11.0	NC		NC	
7P19-21	178.1	NA	11.70	NA	13.0	10.5	NC		NC	
7P19-22	178.1	NA	11.70	NA	13.0	11.0	NC		NC	
7P19-23	178.1	NA	11.70	NA	13.0	10.5	NC		NC	
7P19-24	178.1	NA	11.70	NA	13.0	9.5	NC		NC	
7P19-25	178.1	NA	11.70	NA	13.0	10.0	NC		NC	
7P20	NA	NA	NA	NA	NA	NR	15		1	
7P20-01	178.1	NA	11.70	NA	13.0	11.0	NC		NC	
7P20-02	178.1	NA	11.70	NA	13.0	10.5	NC		NC	
7P20-03	178.1	NA	11.70	NA	13.0	11.0	NC		NC	
7P20-04	178.1	NA	11.70	NA	13.0	10.0	NC		NC	
7P20-05	178.1	NA	11.70	NA	13.0	9.5	NC		NC	
7P20-06	178.1	NA	11.70	NA	13.0	10.0	NC		NC	
7P20-07	178.1	NA	11.70	NA	13.0	10.5	NC		NC	
7P20-08	178.1	NA	11.70	NA	13.0	11.5	NC		NC	
7P20-09	178.1	NA	11.70	NA	13.0	11.5	NC		NC	
7P20-10	178.1	NA	11.70	NA	13.0	11.0	NC		NC	
7P20-11	178.1	NA	11.70	NA	13.0	11.5	NC		NC	
7P20-12	178.1	NA	11.70	NA	13.0	10.5	NC		NC	

APPENDIX C

RADIOLOGICAL DATA (FIDLER SURVEY & MOUND SOIL SCREENING FACILITY) FOR AREA 7

	FIDLER SURVEY DATA						MOUND SOIL SCREENING FACILITY DATA			
SMPID	Contamination Criteria CH1	FIDLER Readings CH1	Contamination Criteria CH2	FIDLER Readings CH2	Contamination Criteria Out Channel	FIDLER Readings Out Channel	Plutonium - 238		Thorium - 232	
	Units: CPM	Units: CPM	Units: KCPM	Units: KCPM	Units: KCPM	Units: KCPM	Units: pCi/g		Units: pCi/g	
	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	Note:	RESULTS	Note:
7P20-13	178.1	NA	11.70	NA	13.0	10.0	NC		NC	
7P20-14	178.1	NA	11.70	NA	13.0	10.5	NC		NC	
7P20-15	178.1	NA	11.70	NA	13.0	10.0	NC		NC	
7P20-16	178.1	NA	11.70	NA	13.0	10.0	NC		NC	
7P20-17	178.1	NA	11.70	NA	13.0	10.0	NC		NC	
7P20-18	178.1	NA	11.70	NA	13.0	10.5	NC		NC	
7P20-19	178.1	NA	11.70	NA	13.0	11.0	NC		NC	
7P20-20	178.1	NA	11.70	NA	13.0	11.5	NC		NC	
7P20-21	178.1	NA	11.70	NA	13.0	10.5	NC		NC	
7P20-22	178.1	NA	11.70	NA	13.0	10.5	NC		NC	
7P20-23	178.1	NA	11.70	NA	13.0	10.0	NC		NC	
7P20-24	178.1	NA	11.70	NA	13.0	10.5	NC		NC	
7P20-25	178.1	NA	11.70	NA	13.0	10.5	NC		NC	
7P21	NA	NA	NA	NA	NA	NR	20		0.9	
7Q16	NA	NA	NA	NA	NA	NR	6		0.7	
7Q16-01	178.1	NA	11.70	NA	13.0	10.0	NC		NC	
7Q16-02	178.1	NA	11.70	NA	13.0	9.5	NC		NC	
7Q16-03	178.1	NA	11.70	NA	13.0	10.0	NC		NC	
7Q16-04	178.1	NA	11.70	NA	13.0	10.0	NC		NC	
7Q16-05	178.1	NA	11.70	NA	13.0	9.5	NC		NC	
7Q16-06	178.1	NA	11.70	NA	13.0	10.0	NC		NC	
7Q16-07	178.1	NA	11.70	NA	13.0	10.5	NC		NC	
7Q16-08	178.1	NA	11.70	NA	13.0	10.5	NC		NC	
7Q16-09	178.1	NA	11.70	NA	13.0	10.0	NC		NC	
7Q16-10	178.1	NA	11.70	NA	13.0	10.0	NC		NC	
7Q16-11	178.1	NA	11.70	NA	13.0	10.5	NC		NC	
7Q16-12	178.1	NA	11.70	NA	13.0	11.0	NC		NC	
7Q16-13	178.1	NA	11.70	NA	13.0	9.5	NC		NC	
7Q16-14	178.1	NA	11.70	NA	13.0	9.5	NC		NC	
7Q16-15	178.1	NA	11.70	NA	13.0	10.5	NC		NC	
7Q16-16	178.1	NA	11.70	NA	13.0	10.0	NC		NC	

APPENDIX C
RADIOLOGICAL DATA (FIDLER SURVEY & MOUND SOIL SCREENING FACILITY) FOR AREA 7

	FIDLER SURVEY DATA						MOUND SOIL SCREENING FACILITY DATA			
SMPID	Contamination Criteria CH1	FIDLER Readings CH1	Contamination Criteria CH2	FIDLER Readings CH2	Contamination Criteria Out Channel	FIDLER Readings Out Channel	Plutonium - 238		Thorium - 232	
	Units: CPM	Units: CPM	Units: KCPM	Units: KCPM	Units: KCPM	Units: KCPM	Units: pCi/g		Units: pCi/g	
	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	Note:	RESULTS	Note:
7Q16-17	178.1	NA	11.70	NA	13.0	10.0	NC		NC	
7Q16-18	178.1	NA	11.70	NA	13.0	10.0	NC		NC	
7Q16-19	178.1	NA	11.70	NA	13.0	9.5	NC		NC	
7Q16-20	178.1	NA	11.70	NA	13.0	9.5	NC		NC	
7Q16-21	178.1	NA	11.70	NA	13.0	9.5	NC		NC	
7Q16-22	178.1	NA	11.70	NA	13.0	10.0	NC		NC	
7Q16-23	178.1	NA	11.70	NA	13.0	10.0	NC		NC	
7Q16-24	178.1	NA	11.70	NA	13.0	11.0	NC		NC	
7Q16-25	178.1	NA	11.70	NA	13.0	11.0	NC		NC	
7Q17	NA	NA	NA	NA	NA	NR	17		1	
7Q17-01	178.1	NA	11.70	NA	13.0	9.5	NC		NC	
7Q17-02	178.1	NA	11.70	NA	13.0	10.0	NC		NC	
7Q17-03	178.1	NA	11.70	NA	13.0	10.0	NC		NC	
7Q17-04	178.1	NA	11.70	NA	13.0	10.0	NC		NC	
7Q17-05	178.1	NA	11.70	NA	13.0	11.0	NC		NC	
7Q17-06	178.1	NA	11.70	NA	13.0	11.0	NC		NC	
7Q17-07	178.1	NA	11.70	NA	13.0	11.5	NC		NC	
7Q17-08	178.1	NA	11.70	NA	13.0	11.0	NC		NC	
7Q17-09	178.1	NA	11.70	NA	13.0	9.5	NC		NC	
7Q17-10	178.1	NA	11.70	NA	13.0	9.0	NC		NC	
7Q17-11	178.1	NA	11.70	NA	13.0	8.5	NC		NC	
7Q17-12	178.1	NA	11.70	NA	13.0	9.0	NC		NC	
7Q17-13	178.1	NA	11.70	NA	13.0	9.5	NC		NC	
7Q17-14	178.1	NA	11.70	NA	13.0	10.0	NC		NC	
7Q17-15	178.1	NA	11.70	NA	13.0	11.0	NC		NC	
7Q17-16	178.1	NA	11.70	NA	13.0	10.5	NC		NC	
7Q17-17	178.1	NA	11.70	NA	13.0	10.0	NC		NC	
7Q17-18	178.1	NA	11.70	NA	13.0	9.5	NC		NC	
7Q17-19	178.1	NA	11.70	NA	13.0	9.5	NC		NC	
7Q17-20	178.1	NA	11.70	NA	13.0	10.0	NC		NC.	
7Q17-21	178.1	NA	11.70	NA	13.0	9.5	NC		NC	

APPENDIX C
RADIOLOGICAL DATA (FIDLER SURVEY & MOUND SOIL SCREENING FACILITY) FOR AREA 7

	FIDLER SURVEY DATA						MOUND SOIL SCREENING FACILITY DATA			
SMPID	Contamination Criteria CH1	FIDLER Readings CH1	Contamination Criteria CH2	FIDLER Readings CH2	Contamination Criteria Out Channel	FIDLER Readings Out Channel	Plutonium - 238		Thorium - 232	
	Units: CPM	Units: CPM	Units: KCPM	Units: KCPM	Units: KCPM	Units: KCPM	Units: pCi/g		Units: pCi/g	
	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	Note:	RESULTS	Note:
7Q17-22	178.1	NA	11.70	NA	13.0	10.0	NC		NC	
7Q17-23	178.1	NA	11.70	NA	13.0	10.0	NC		NC	
7Q17-24	178.1	NA	11.70	NA	13.0	10.0	NC		NC	
7Q17-25	178.1	NA	11.70	NA	13.0	10.0	NC		NC	
7Q18	NA	NA	NA	NA	NA	NR	30	a	0.6	
7Q18-01	178.1	NA	11.70	NA	13.0	9.5	NC		NC	
7Q18-02	178.1	NA	11.70	NA	13.0	9.5	NC		NC	
7Q18-03	178.1	NA	11.70	NA	13.0	10.0	NC		NC	
7Q18-04	178.1	NA	11.70	NA	13.0	10.5	NC		NC	
7Q18-05	178.1	NA	11.70	NA	13.0	10.0	NC		NC	
7Q18-06	178.1	NA	11.70	NA	13.0	10.0	NC		NC	
7Q18-07	178.1	NA	11.70	NA	13.0	10.0	NC		NC	
7Q18-08	178.1	NA	11.70	NA	13.0	10.0	NC		NC	
7Q18-09	178.1	NA	11.70	NA	13.0	9.5	NC		NC	
7Q18-10	178.1	NA	11.70	NA	13.0	9.5	NC		NC	
7Q18-11	178.1	NA	11.70	NA	13.0	9.5	NC		NC	
7Q18-12	178.1	NA	11.70	NA	13.0	9.0	NC		NC	
7Q18-13	178.1	NA	11.70	NA	13.0	10.0	NC		NC	
7Q18-14	178.1	NA	11.70	NA	13.0	11.0	NC		NC	
7Q18-15	178.1	NA	11.70	NA	13.0	9.5	NC		NC	
7Q18-16	178.1	NA	11.70	NA	13.0	9.5	NC		NC	
7Q18-17	178.1	NA	11.70	NA	13.0	10.0	NC		NC	
7Q18-18	178.1	NA	11.70	NA	13.0	10.0	NC		NC	
7Q18-19	178.1	NA	11.70	NA	13.0	10.0	NC		NC	
7Q18-20	178.1	NA	11.70	NA	13.0	10.0	NC		NC	
7Q18-21	178.1	NA	11.70	NA	13.0	10.0	NC		NC	
7Q18-22	178.1	NA	11.70	NA	13.0	10.5	NC		NC	
7Q18-23	178.1	NA	11.70	NA	13.0	9.5	NC		NC	
7Q18-24	178.1	NA	11.70	NA	13.0	10.0	NC		NC	
7Q18-25	178.1	NA	11.70	NA	13.0	10.0	NC		NC	
7Q19	NA	NA	NA	NA	NA	NR	20		1	

APPENDIX C
RADIOLOGIAL DATA (FIDLER SURVEY & MOUND SOIL SCREENING FACILITY) FOR AREA 7

	FIDLER SURVEY DATA						MOUND SOIL SCREENING FACILITY DATA			
SMPID	Contamination Criteria CH1	FIDLER Readings CH1	Contamination Criteria CH2	FIDLER Readings CH2	Contamination Criteria Out Channel	FIDLER Readings Out Channel	Plutonium - 238		Thorium - 232	
	Units: CPM	Units: CPM	Units: KCPM	Units: KCPM	Units: KCPM	Units: KCPM	Units: pCi/g		Units: pCi/g	
	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	Note:	RESULTS	Note:
7Q19-01	178.1	NA	11.70	NA	13.0	9.5	NC		NC	
7Q19-02	178.1	NA	11.70	NA	13.0	9.5	NC		NC	
7Q19-03	178.1	NA	11.70	NA	13.0	10.0	NC		NC	
7Q19-04	178.1	NA	11.70	NA	13.0	9.0	NC		NC	
7Q19-05	178.1	NA	11.70	NA	13.0	10.5	NC		NC	
7Q19-06	178.1	NA	11.70	NA	13.0	10.5	NC		NC	
7Q19-07	178.1	NA	11.70	NA	13.0	9.5	NC		NC	
7Q19-08	178.1	NA	11.70	NA	13.0	9.5	NC		NC	
7Q19-09	178.1	NA	11.70	NA	13.0	10.0	NC		NC	
7Q19-10	178.1	NA	11.70	NA	13.0	10.0	NC		NC	
7Q19-11	178.1	NA	11.70	NA	13.0	10.0	NC		NC	
7Q19-12	178.1	NA	11.70	NA	13.0	10.0	NC		NC	
7Q19-13	178.1	NA	11.70	NA	13.0	10.0	NC		NC	
7Q19-14	178.1	NA	11.70	NA	13.0	10.5	NC		NC	
7Q19-15	178.1	NA	11.70	NA	13.0	10.0	NC		NC	
7Q19-16	178.1	NA	11.70	NA	13.0	10.0	NC		NC	
7Q19-17	178.1	NA	11.70	NA	13.0	10.0	NC		NC	
7Q19-18	178.1	NA	11.70	NA	13.0	10.0	NC		NC	
7Q19-19	178.1	NA	11.70	NA	13.0	10.0	NC		NC	
7Q19-20	178.1	NA	11.70	NA	13.0	10.0	NC		NC	
7Q19-21	178.1	NA	11.70	NA	13.0	10.0	NC		NC	
7Q19-22	178.1	NA	11.70	NA	13.0	10.0	NC		NC	
7Q19-23	178.1	NA	11.70	NA	13.0	9.5	NC		NC	
7Q19-24	178.1	NA	11.70	NA	13.0	10.0	NC		NC	
7Q19-25	178.1	NA	11.70	NA	13.0	10.5	NC		NC	
7Q20	NA	NA	NA	NA	NA	NR	15		0.8	
7Q20-01	178.1	NA	11.70	NA	13.0	10.0	NC		NC	
7Q20-02	178.1	NA	11.70	NA	13.0	9.5	NC		NC	
7Q20-03	178.1	NA	11.70	NA	13.0	10.5	NC		NC	
7Q20-04	178.1	NA	11.70	NA	13.0	10.0	NC		NC	
7Q20-05	178.1	NA	11.70	NA	13.0	10.0	NC		NC	

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RADIOLOGICAL DATA (FIDLER SURVEY & MOUND SOIL SCREENING FACILITY) FOR AREA 7

	FIDLER SURVEY DATA						MOUND SOIL SCREENING FACILITY DATA			
SMPID	Contamination Criteria CH1	FIDLER Readings CH1	Contamination Criteria CH2	FIDLER Readings CH2	Contamination Criteria Out Channel	FIDLER Readings Out Channel	Plutonium - 238		Thorium - 232	
	Units: CPM	Units: CPM	Units: KCPM	Units: KCPM	Units: KCPM	Units: KCPM	Units: pCi/g		Units: pCi/g	
	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	Note:	RESULTS	Note:
7Q20-06	178.1	NA	11.70	NA	13.0	10.5	NC		NC	
7Q20-07	178.1	NA	11.70	NA	13.0	10.0	NC		NC	
7Q20-08	178.1	NA	11.70	NA	13.0	9.5	NC		NC	
7Q20-09	178.1	NA	11.70	NA	13.0	10.0	NC		NC	
7Q20-10	178.1	NA	11.70	NA	13.0	10.0	NC		NC	
7Q20-11	178.1	NA	11.70	NA	13.0	9.5	NC		NC	
7Q20-12	178.1	NA	11.70	NA	13.0	9.5	NC		NC	
7Q20-13	178.1	NA	11.70	NA	13.0	9.5	NC		NC	
7Q20-14	178.1	NA	11.70	NA	13.0	10.0	NC		NC	
7Q20-15	178.1	NA	11.70	NA	13.0	11.0	NC		NC	
7Q20-16	178.1	130	11.70	14.5	13.0	14.0	NC		NC	
7Q20-17	178.1	NA	11.70	NA	13.0	11.0	NC		NC	
7Q20-18	178.1	NA	11.70	NA	13.0	10.0	NC		NC	
7Q20-19	178.1	NA	11.70	NA	13.0	10.5	NC		NC	
7Q20-20	178.1	NA	11.70	NA	13.0	10.0	NC		NC	
7Q20-21	178.1	NA	11.70	NA	13.0	10.0	NC		NC	
7Q20-22	178.1	NA	11.70	NA	13.0	11.0	NC		NC	
7Q20-23	178.1	NA	11.70	NA	13.0	13.0	NC		NC	
7Q20-24	178.1	NA	11.70	NA	13.0	12.5	NC		NC	
7Q20-25	178.1	NA	11.70	NA	13.0	12.5	NC		NC	
7Q21	NA	NA	NA	NA	NA	NR	24		0.9	
7R16	NA	NA	NA	NA	NA	NR	18		0.9	
7R16-01	NA	NA	NA	NA	NA	NR	NC		NC	
7R16-02	NA	NA	NA	NA	NA	NR	NC		NC	
7R16-03	NA	NA	NA	NA	NA	NR	NC		NC	
7R16-04	178.1	NA	11.70	NA	13.0	5.0	NC		NC	
7R16-05	178.1	NA	11.70	NA	13.0	5.0	NC		NC	
7R16-06	178.1	NA	11.70	NA	13.0	5.0	NC		NC	
7R16-07	NA	NA	NA	NA	NA	NR	NC		NC	
7R16-08	NA	NA	NA	NA	NA	NR	NC		NC	
7R16-09	NA	NA	NA	NA	NA	NR	NC		NC	

APPENDIX C
RADIOLOGICAL DATA (FIDLER SURVEY & MOUND SOIL SCREENING FACILITY) FOR AREA 7

	FIDLER SURVEY DATA						MOUND SOIL SCREENING FACILITY DATA			
SMPID	Contamination Criteria CH1	FIDLER Readings CH1	Contamination Criteria CH2	FIDLER Readings CH2	Contamination Criteria Out Channel	FIDLER Readings Out Channel	Plutonium - 238		Thorium - 232	
	Units: CPM	Units: CPM	Units: KCPM	Units: KCPM	Units: KCPM	Units: KCPM	Units: pCi/g		Units: pCi/g	
	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	Note:	RESULTS	Note:
7R16-10	NA	NA	NA	NA	NA	NR	NC		NC	
7R16-11	178.1	NA	11.70	NA	13.0	10.5	NC		NC	
7R16-12	NA	NA	NA	NA	NA	NR	NC		NC	
7R16-13	NA	NA	NA	NA	NA	NR	NC		NC	
7R16-14	NA	NA	NA	NA	NA	NR	NC		NC	
7R16-15	NA	NA	NA	NA	NA	NR	NC		NC	
7R16-16	NA	NA	NA	NA	NA	NR	NC		NC	
7R16-17	NA	NA	NA	NA	NA	NR	NC		NC	
7R16-18	NA	NA	NA	NA	NA	NR	NC		NC	
7R16-19	178.1	NA	11.70	NA	13.0	10.0	NC		NC	
7R16-20	178.1	NA	11.70	NA	13.0	10.5	NC		NC	
7R16-21	178.1	NA	11.70	NA	13.0	12.0	NC		NC	
7R16-22	178.1	NA	11.70	NA	13.0	10.5	NC		NC	
7R16-23	178.1	NA	11.70	NA	13.0	10.0	NC		NC	
7R16-24	NA	NA	NA	NA	NA	NR	NC		NC	
7R16-25	NA	NA	NA	NA	NA	NR	NC		NC	
7R17	NA	NA	NA	NA	NA	NR	19		1.2	
7R17-01	178.1	NA	11.70	NA	13.0	12.0	NC		NC	
7R17-02	178.1	NA	11.70	NA	13.0	11.5	NC		NC	
7R17-03	178.1	NA	11.70	NA	13.0	10.0	NC		NC	
7R17-04	178.1	NA	11.70	NA	13.0	9.0	NC		NC	
7R17-05	NA	NA	NA	NA	NA	NS	NC		NC	
7R17-06	NA	NA	NA	NA	NA	NS	NC		NC	
7R17-07	178.1	NA	11.70	NA	13.0	9.5	NC		NC	
7R17-08	178.1	NA	11.70	NA	13.0	11.0	NC		NC	
7R17-09	178.1	NA	11.70	NA	13.0	10.5	NC		NC	
7R17-10	178.1	NA	11.70	NA	13.0	12.0	NC		NC	
7R17-11	178.1	NA	11.70	NA	13.0	11.5	NC		NC	
7R17-12	178.1	NA	11.70	NA	13.0	11.0	NC		NC	
7R17-13	178.1	NA	11.70	NA	13.0	10.0	NC		NC	
7R17-14	178.1	NA	11.70	NA	13.0	10.0	NC		NC	

APPENDIX C
RADIOLOGICAL DATA (FIDLER SURVEY & MOUND SOIL SCREENING FACILITY) FOR AREA 7

	FIDLER SURVEY DATA						MOUND SOIL SCREENING FACILITY DATA			
SMPID	Contamination Criteria CH1	FIDLER Readings CH1	Contamination Criteria CH2	FIDLER Readings CH2	Contamination Criteria Out Channel	FIDLER Readings Out Channel	Plutonium - 238		Thorium - 232	
	Units: CPM	Units: CPM	Units: KCPM	Units: KCPM	Units: KCPM	Units: KCPM	Units: pCi/g		Units: pCi/g	
	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	Note:	RESULTS	Note:
7R17-15	178.1	NA	11.70	NA	13.0	7.0	NC		NC	
7R17-16	178.1	NA	11.70	NA	13.0	10.0	NC		NC	
7R17-17	178.1	NA	11.70	NA	13.0	10.0	NC		NC	
7R17-18	178.1	NA	11.70	NA	13.0	10.5	NC		NC	
7R17-19	178.1	NA	11.70	NA	13.0	10.5	NC		NC	
7R17-20	178.1	NA	11.70	NA	13.0	10.5	NC		NC	
7R17-21	178.1	NA	11.70	NA	13.0	11.0	NC		NC	
7R17-22	178.1	NA	11.70	NA	13.0	10.5	NC		NC	
7R17-23	178.1	NA	11.70	NA	13.0	10.0	NC		NC	
7R17-24	178.1	NA	11.70	NA	13.0	10.5	NC		NC	
7R17-25	178.1	NA	11.70	NA	13.0	10.5	NC		NC	
7R18	NA	NA	NA	NA	NA	NR	19		1.2	
7R18-01	178.1	NA	11.70	NA	13.0	10.0	NC		NC	
7R18-02	178.1	NA	11.70	NA	13.0	12.0	NC		NC	
7R18-03	178.1	NA	11.70	NA	13.0	10.5	NC		NC	
7R18-04	178.1	NA	11.70	NA	13.0	11.5	NC		NC	
7R18-05	178.1	NA	11.70	NA	13.0	12.0	NC		NC	
7R18-06	178.1	NA	11.70	NA	13.0	10.5	NC		NC	
7R18-07	178.1	NA	11.70	NA	13.0	11.0	NC		NC	
7R18-08	178.1	NA	11.70	NA	13.0	11.5	NC		NC	
7R18-09	178.1	NA	11.70	NA	13.0	11.5	NC		NC	
7R18-10	178.1	NA	11.70	NA	13.0	10.0	NC		NC	
7R18-11	178.1	NA	11.70	NA	13.0	10.5	NC		NC	
7R18-12	178.1	NA	11.70	NA	13.0	11.5	NC		NC	
7R18-13	178.1	NA	11.70	NA	13.0	11.5	NC		NC	
7R18-14	178.1	NA	11.70	NA	13.0	10.5	NC		NC	
7R18-15	178.1	NA	11.70	NA	13.0	10.5	NC		NC	
7R18-16	178.1	NA	11.70	NA	13.0	11.0	NC		NC	
7R18-17	178.1	NA	11.70	NA	13.0	11.5	NC		NC	
7R18-18	178.1	NA	11.70	NA	13.0	11.5	NC		NC	
7R18-19	178.1	NA	11.70	NA	13.0	11.5	NC		NC	

APPENDIX C
RADIOLOGICAL DATA (FIDLER SURVEY & MOUND SOIL SCREENING FACILITY) FOR AREA 7

	FIDLER SURVEY DATA						MOUND SOIL SCREENING FACILITY DATA			
SMPID	Contamination Criteria CH1	FIDLER Readings CH1	Contamination Criteria CH2	FIDLER Readings CH2	Contamination Criteria Out Channel	FIDLER Readings Out Channel	Plutonium - 238		Thorium - 232	
	Units: CPM	Units: CPM	Units: KCPM	Units: KCPM	Units: KCPM	Units: KCPM	Units: pCi/g		Units: pCi/g	
	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	Note:	RESULTS	Note:
7R18-20	178.1	NA	11.70	NA	13.0	11.0	NC		NC	
7R18-21	178.1	NA	11.70	NA	13.0	11.0	NC		NC	
7R18-22	178.1	NA	11.70	NA	13.0	12.0	NC		NC	
7R18-23	178.1	NA	11.70	NA	13.0	11.5	NC		NC	
7R18-24	178.1	NA	11.70	NA	13.0	10.5	NC		NC	
7R18-25	178.1	NA	11.70	NA	13.0	10.5	NC		NC	
7R19	NA	NA	NA	NA	NA	NR	24		1	
7R19-01	178.1	NA	11.70	NA	13.0	10.0	NC		NC	
7R19-02	178.1	NA	11.70	NA	13.0	10.0	NC		NC	
7R19-03	178.1	NA	11.70	NA	13.0	10.0	NC		NC	
7R19-04	178.1	NA	11.70	NA	13.0	10.0	NC		NC	
7R19-05	178.1	NA	11.70	NA	13.0	10.0	NC		NC	
7R19-06	178.1	NA	11.70	NA	13.0	10.0	NC		NC	
7R19-07	178.1	NA	11.70	NA	13.0	10.0	NC		NC	
7R19-08	178.1	NA	11.70	NA	13.0	10.0	NC		NC	
7R19-09	178.1	NA	11.70	NA	13.0	9.5	NC		NC	
7R19-10	178.1	NA	11.70	NA	13.0	10.0	NC		NC	
7R19-11	178.1	NA	11.70	NA	13.0	10.0	NC		NC	
7R19-12	178.1	NA	11.70	NA	13.0	10.0	NC		NC	
7R19-13	178.1	NA	11.70	NA	13.0	10.5	NC		NC	
7R19-14	178.1	NA	11.70	NA	13.0	10.0	NC		NC	
7R19-15	178.1	NA	11.70	NA	13.0	10.5	NC		NC	
7R19-16	178.1	NA	11.70	NA	13.0	8.5	NC		NC	
7R19-17	178.1	NA	11.70	NA	13.0	10.0	NC		NC	
7R19-18	178.1	NA	11.70	NA	13.0	10.0	NC		NC	
7R19-19	178.1	NA	11.70	NA	13.0	9.5	NC		NC	
7R19-20	178.1	NA	11.70	NA	13.0	10.0	NC		NC	
7R19-21	178.1	NA	11.70	NA	13.0	10.0	NC		NC	
7R19-22	178.1	NA	11.70	NA	13.0	9.5	NC		NC	
7R19-23	178.1	NA	11.70	NA	13.0	9.5	NC		NC	
7R19-24	178.1	NA	11.70	NA	13.0	8.0	NC		NC	

APPENDIX C
RADIOLOGICAL DATA (FIDLER SURVEY & MOUND SOIL SCREENING FACILITY) FOR AREA 7

	FIDLER SURVEY DATA						MOUND SOIL SCREENING FACILITY DATA			
SMPID	Contamination Criteria CH1	FIDLER Readings CH1	Contamination Criteria CH2	FIDLER Readings CH2	Contamination Criteria Out Channel	FIDLER Readings Out Channel	Plutonium - 238		Thorium - 232	
	Units: CPM	Units: CPM	Units: KCPM	Units: KCPM	Units: KCPM	Units: KCPM	Units: pCi/g		Units: pCi/g	
	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	Note:	RESULTS	Note:
7R19-25	178.1	NA	11.70	NA	13.0	7.5	NC		NC	
7R20	NA	NA	NA	NA	NA	NR	17		1	
7R20-01	178.1	NA	11.70	NA	13.0	10.0	NC		NC	
7R20-02	178.1	NA	11.70	NA	13.0	10.0	NC		NC	
7R20-03	178.1	NA	11.70	NA	13.0	9.5	NC		NC	
7R20-04	178.1	NA	11.70	NA	13.0	7.0	NC		NC	
7R20-05	178.1	NA	11.70	NA	13.0	7.5	NC		NC	
7R20-06	178.1	NA	11.70	NA	13.0	10.0	NC		NC	
7R20-07	178.1	NA	11.70	NA	13.0	8.0	NC		NC	
7R20-08	178.1	NA	11.70	NA	13.0	10.0	NC		NC	
7R20-09	178.1	NA	11.70	NA	13.0	9.5	NC		NC	
7R20-10	178.1	NA	11.70	NA	13.0	10.0	NC		NC	
7R20-11	178.1	NA	11.70	NA	13.0	10.5	NC		NC	
7R20-12	178.1	NA	11.70	NA	13.0	11.5	NC		NC	
7R20-13	178.1	NA	11.70	NA	13.0	11.5	NC		NC	
7R20-14	178.1	NA	11.70	NA	13.0	11.0	NC		NC	
7R20-15	178.1	NA	11.70	NA	13.0	11.0	NC		NC	
7R20-16	178.1	NA	11.70	NA	13.0	11.5	NC		NC	
7R20-17	178.1	NA	11.70	NA	13.0	11.0	NC		NC	
7R20-18	178.1	NA	11.70	NA	13.0	11.5	NC		NC	
7R20-19	178.1	NA	11.70	NA	13.0	12.0	NC		NC	
7R20-20	178.1	NA	11.70	NA	13.0	13.0	NC		NC	
7R20-21	178.1	NA	11.70	NA	13.0	11.5	NC		NC	
7R20-22	178.1	NA	11.70	NA	13.0	11.5	NC		NC	
7R20-23	178.1	NA	11.70	NA	13.0	12.0	NC		NC	
7R20-24	178.1	NA	11.70	NA	13.0	11.0	NC		NC	
7R20-25	178.1	NA	11.70	NA	13.0	11.0	NC		NC	
7R21	NA	NA	NA	NA	NA	NR	17		1	
7S16	NA	NA	NA	NA	NA	NR	WIPE	b	WIPE	b
7S17	NA	NA	NA	NA	NA	NR	WIPE	b	WIPE	b
7S18	NA	NA	NA	NA	NA	NR	8		0.7	

APPENDIX C
RADIOLOGICAL DATA (FIDLER SURVEY & MOUND SOIL SCREENING FACILITY) FOR AREA 7

	FIDLER SURVEY DATA						MOUND SOIL SCREENING FACILITY DATA			
SMPID	Contamination Criteria CH1	FIDLER Readings CH1	Contamination Criteria CH2	FIDLER Readings CH2	Contamination Criteria Out Channel	FIDLER Readings Out Channel	Plutonium - 238		Thorium - 232	
	Units: CPM	Units: CPM	Units: KCPM	Units: KCPM	Units: KCPM	Units: KCPM	Units: pCi/g		Units: pCi/g	
	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	Note:	RESULTS	Note:
7S19	NA	NA	NA	NA	NA	NR	12		1.1	
7S20	NA	NA	NA	NA	NA	NR	13		1	
7S21	NA	NA	NA	NA	NA	NR	17		0.9	

CH1 - Channel 1
CH2 - Channel 2
NR - Reading not recorded.
NC - No sample collected, location not at grid point.
NA - Reading not taken; contamination criteria not exceeded.
a - Mound Soil Screening Facility detection level of 25.0 pCi/g for Pu-238 and 2.0 pCi/g for Th-232 exceeded.
b - Results of the wipe sample were less than 20 disintegrations per minute.
Sampling equipment was wiped when sufficient soil for analysis could not be collected. The wipes were screened at the Mound Soil Screening Facility.
CPM - Counts per minute
KCPM - Counts per minute x 1000
pCi/g - Picocuries per gram
SMPID - Sample identification number.

APPENDIX C
RADIOLOGICAL DATA (MOUND SOIL SCREENING FACILITY DATA)
FOR AREA 7 SOIL BORINGS

		SOIL BORINGS (B01 - B16)			
		MOUND SOIL SCREENING FACILITY DATA			
SOIL	Sample Depth[b]	Plutonium - 238		Thorium - 232	
BORING		Units: pCi/g		Units: pCi/g	
		RESULTS	Note:	RESULTS	Note:
B01	6 inches	20		0.9	
	2	19		0.7	
	3.5	11		0.8	
	5-7	23		0.7	
	10-12	12		1.0	
	15-17	30	a	0.7	
	20-22	24		0.9	
	25-27	17		0.8	
	30-32	20		1.1	
B02	6 inches	0		0.0	
	2	0		0.6	
	3.5	24		1.1	
	5-7	9		1.7	
B03	0-2	14		0.6	
	4-6	0		1.0	
	10-12	32	a	1.2	
	15-17	26	a	0.7	
	25-28	25	a	0.7	
	36-38	10		1.6	
	38-40	0		0.7	
B04	6 inches	12		0.5	
	2	23		0.8	
	3.5	18		1.8	
	5-7	14		0.9	
	5-9	16		1.1	
B05	6 inches	25	a	0.9	
	2	26	a	1.5	
	3.5	22		2.0	a
	3-5	11		1.2	
B06	6 inches	0		0.5	
	2	16		0.9	
	2-4	21		1.2	
	5-10	7		1.0	
	10-16	20		1.6	
B07	15-17	0		18.3	a
	15-17	9		8.7	a
B08	6 inches	0		1.3	
	2	11		1.1	
	5-10	25	a	1.0	
	10-22	0		0.9	

APPENDIX C
RADIOLOGICAL DATA (MOUND SOIL SCREENING FACILITY DATA)
FOR AREA 7 SOIL BORINGS

		SOIL BORINGS (B01 - B16)			
		MOUND SOIL SCREENING FACILITY DATA			
SOIL	Sample Depth[b]	Plutonium - 238		Thorium - 232	
BORING		Units: pCi/g		Units: pCi/g	
		RESULTS	Note:	RESULTS	Note:
B09	6 inches	6		0.2	
	2	19		1.6	
	2-4	19		1.8	
	5-12	18		1.2	
	12-20	0		0.8	
	20-26	0		0.5	
	26-34	0		0.8	
B10	6 inches	22		1.4	
	2	26	a	1.7	
	2-10	27	a	1.0	
	10-13.5	13		1.2	
B11	6 inches	11		0.4	
	2	13		0.7	
	2-10	17		1.1	
	10-15	13		2.0	a
	15-20	21		1.9	
B12	6 inches	4		0.2	
	2	4		0.5	
	6-10	14		1.0	
	12-21	22		1.0	
B13	6 inches	0		0.2	
	2	24		0.5	
	4-6	0		0.5	
	6-8	18		0.9	
	8-10	0		0.6	
	10-12	24		0.7	
	12-14	20		1.0	
	14-16	23		0.5	
	20-25	21		1.5	
	25-30	0		0.8	
	32-34	20		0.7	
B14	6 inches	0		0.2	
	2	0		0.3	
	12-18	31	a	1.0	
	20-22	21		1.2	
	24-30	36	a	1.7	
B15	6 inches	23		0.8	
	2	24		1.1	
	2-6	4		1.3	
	6-10	16		1.3	
	10-16	9		1.2	

APPENDIX C
RADIOLOGICAL DATA (MOUND SOIL SCREENING FACILITY DATA)
FOR AREA 7 SOIL BORINGS

		SOIL BORINGS (B01 - B16)			
		MOUND SOIL SCREENING FACILITY DATA			
SOIL	Sample Depth[b]	Plutonium - 238		Thorium - 232	
BORING		Units: pCi/g		Units: pCi/g	
		RESULTS	Note:	RESULTS	Note:
B16	surface	2		0.9	
	2-4	20		0.9	
	6	0		12.2	a
	6	0		16.9	a
	10-12	8		2.4	a
	grab	13		6.9	a
	12-14	0		7.8	a
	14-16	0		6.3	a
	16-18	0		27.7	a
	16-18	0		24.3	a
	16-18	0		19.3	a
	18-20	0		19.9	a
	20-24	1		1.6	
	20	0		28.4	a
	26-30	0		0.9	
	32-34	18		0.7	
	38-40	8		0.9	
	49-49.7	14		1.5	

a - Mound Soil Screening Facility detection level exceeded.
b - Sample depths are recorded in feet unless otherwise denoted.
CPM - Counts per Minute
KCPM - Counts per Minute X 1000
pCi/g - Picocuries per gram

APPENDIX D
SOIL GAS SURVEY REPORT

Final Report of the PETREX® Soil Gas Survey
on Area 7, Operable Unit 5

FINAL REPORT OF FINDINGS
OF THE PETREX SOIL GAS SURVEY
OF AREA OF CONCERN -7 / OPERABLE UNIT -5
U. S. DEPARTMENT OF ENERGY MOUND FACILITY
MIAMISBURG, OHIO

PREPARED BY: DATE:

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(Plates 1 through 5 are provided separately and unbound)

1.0 EXECUTIVE SUMMARY

SAIC and NERI performed a Petrex passive soil gas survey at AOC-7 / OU-5 on the grounds of the USDOE Mound Facility in Miamisburg, Ohio. The purpose of this survey was to assess the potential for the presence of subsurface contamination by VOC's and SVOC's, particularly hydrocarbons from petroleum products and halogenated organic compounds found in various chemical products which may have been used at the facility.

This survey was designed and conducted by SAIC with guidance by NERI as part of an investigation of the entire OU-5 area. Field operations were performed by SAIC personnel between July 26 and August 17, 1994. All Petrex soil gas samples collected in the field were returned to NERI for standard Thermal Desorption - Mass Spectrometry analysis.

Survey results indicate:

1. Elevated levels of hydrocarbons principally derived from medium and heavy weight petroleum products including fuels or fuel oils, and coal tars are present in the subsurface within AOC-7. The greatest impact to the subsurface may be in the area west of the parking lot. The distribution and location of source areas of these hydrocarbons may relate to existing on-site structures, especially access roads.

2. Elevated levels of various halogenated hydrocarbon compounds, most of which are commonly used as solvents, are present in the subsurface of AOC-7. The greatest impact to the subsurface may occur in the western portion of AOC-7 which adjoins the parking lot. The distribution of halogenated hydrocarbon compounds and the location of potential source areas likely relate to past land use.

3. Although the solvent 2-butanone and the phthalate esters bis(2-ethylhexyl) phthalate and di-*n*-butyl phthalate are suspected to be present in the subsurface, they were not detected in the soil gas.

4. Quantitative testing of soil and groundwater from the Petrex soil gas sampling points at grid coordinates A4, C2, E2, G15, H10, I8, J6, J14, K8, K14, M14, O20, and Q17 is recommended as the first step in determining the environmental significance of these survey results.

2.0 INTRODUCTION

With the aid of Northeast Research Institute LLC (NERI), Science Applications International Corporation (SAIC) recently completed a Petrex soil gas survey of Area of Concern -7 (AOC-7) within Operable Unit -5 (OU-5) of the U. S. Department of Energy's Mound Facility in Miamisburg, Ohio. The survey of AOC-7 was performed as part of a larger soil gas survey of the entire OU-5 area. AOC-7 is located in the northern arm of OU-5, and is centered on a valley defined by hillsides which rise to the northwest and southeast. This soil gas survey actually encompassed three separate sections of AOC-7. Each section is a rectangular area located on the periphery of the large parking lot in the center of AOC-7 (see Plate 1).

Due to its history of infilling and use as a disposal area for debris from other parts of OU-5, subsurface contamination by numerous volatile and semivolatile organic compounds (VOC's and SVOC's) is suspected. These compounds include components of petroleum products, plasticizers, and halogenated and nonhalogenated solvents. The purpose of this Petrex soil gas survey was to locate areas within AOC-7 which exhibit potential subsurface contamination by these compounds. The information generated by this survey could then be used to 1) determine what compounds may impact soil or groundwater quality, 2) locate areas of greatest potential impact and areas where these compounds might have been buried, and 3) strategically plan quantitative testing of soil and groundwater to determine the regulatory significance of findings site-wide.

3.0 OBJECTIVES

The technical objectives of the Petrex soil gas survey at AOC-7 were to:

1. Collect and identify VOC's and SVOC's in the subsurface.

2. Report results for targeted VOC's and SVOC's and illustrate their areal distribution on-site through mapping of results.

3. Determine the location of possible source areas or areas meriting quantitative investigation from the areal distribution and relative level of the targeted compounds in the soil gas.

4.0 OVERVIEW OF THE PETREX TECHNIQUE

Each Petrex soil gas sampler consists of two or three activated charcoal adsorption elements (collectors) housed in a resealable glass container in an inert atmosphere.

Soil gas sample collection is performed by unsealing the sampler and exposing the collector to the soil gas of the subsurface environment at the base of a shallow bore hole. Sample collection proceeds via free vapor diffusion through the opening of the uncapped sampler container. Following a controlled period of time, the sampler is retrieved from the bore hole, resealed, and submitted for analysis.

One collector from each soil gas sampler is analyzed by Thermal Desorption - Mass Spectrometry (TD-MS). Selected second collectors may be analyzed by Thermal Desorption - Gas Chromatography/Mass Spectrometry (TD-GC/MS) for compound confirmation. At least ten percent of samplers used in any project contain three collectors. The third collector is used for setting instrument sensitivity prior to analysis.

Compounds are identified by comparison to standard reference spectra derived from the same instrument. The mass spectral ion count of the appropriate indicator peak(s) for each compound or group of compounds is then plotted as relative response on a map and contoured using a variety of standard geostatistical analyses.

For a more detailed and technical discussion of the method, please refer to Appendix A, Petrex Protocol.

5.0 SCOPE OF WORK

The scope of work of this soil gas survey specified the collection and analysis of soil gas samples from a total of one hundred and thirty-two (132) sample collection points. These sample collection points were arrayed in uniform rectangular grids which overlaid three separate sections of AOC-7. The distance between sample collection points within each grid was twenty-five feet (see Plate 1 provided with this report).

The smallest section surveyed, from hereon referred to as Section -1, is located on near level ground in the northern portion of AOC-7 and adjoins the northern side of the holding pond. The sampling plan for Section -1 consisted of twenty (20) Petrex samplers installed over an area of seventy-five hundred square feet.

The largest section surveyed, referred to as Section -2, is located in the western portion of AOC-7. Section -2 occupies a portion of the hillside which slopes downward to the southeast (with a grade of approximately 20%) toward the parking lot and Building No. 98. The sampling plan for Section -2 consisted of seventy-six (76) Petrex samplers installed over an area of approximately thirty-seven thousand square feet. Although the sampling grid overlaying Section -2 intercepted Building No. 98, no Petrex samplers were installed within the building.

Section -3, the third section of AOC-7 surveyed, is located east of the parking lot and south of the holding pond on the hillside which slopes downward (with a 17% grade) to the northwest. The sampling plan for Section -3 consisted of thirty-six (36) Petrex samplers installed over an area of nearly sixteen thousand square feet.

Except for four sampling points at which Petrex samplers could not be retrieved (one in Section -1 and three in Section -2, see Field Activities, below) one soil gas sample from each sampling point was analyzed by Thermal Desorption-Mass Spectrometry (TD-MS). Approximately ten percent of Petrex samplers used in this survey contained an additional soil gas collector for the purpose of yielding a duplicate soil gas sample for QA/QC verification. These duplicate samples were also analyzed by TD-MS in the same analytical run (see results under subsection 7.4).

6.0 FIELD ACTIVITIES

AOC-7 is located in the northern arm of OU-5 and is centered on a historical ravine which descends gently to the southwest between mounded terrain to the northwest and southeast. AOC-7 contains or is bounded by numerous structures including Buildings No. 29, No. 45, No. 46, No. 51, No. 66, No. 71, No. 73, and No. 98. AOC-7 is accessed by a paved road running the length of the valley and an access road leading from the facilities to the northwest.

All field operations for this survey were organized and performed by SAIC personnel. Petrex soil gas samplers were installed within a ten day period beginning July 26, 1994. An electric rotary hammer drill equipped with a 1½ inch diameter drill bit was employed to create the shallow bore hole into which each Petrex soil gas sampler was installed. Petrex samplers were generally installed at a depth of eighteen inches below grade; however, some samplers were installed at slightly lesser depths (though no less than eight inches) where obstructions to drilling were present.

To avoid potential cross contamination of sampling locations, the drill bit was decontaminated between use at each location. Decontamination of the drill bits consisted of thorough scrubbing in a laboratory grade detergent solution followed by repeated rinsing with distilled water. The drill bits were then allowed to completely air dry prior to reuse.

Six extra Petrex samplers were used in this survey to determine the approximate length of time samplers should be exposed in the field to collect levels of VOC's and SVOC's best suited for analysis. These "time test" samplers were divided into pairs and installed beside the survey samplers at the three sampling grid locations D2, G10, and Q16 during the commencement of field operations. Time test samplers from each of these locations were then retrieved from the field and submitted to NERI for analysis after exposures of seven and sixteen days.

Time test samplers exposed for both seven days and sixteen days yielded moderate to high levels of C_4 to C_9 petroleum hydrocarbons. Additionally, the pair of time test samplers from coordinate D2 (from Section -1) also yielded low levels of the halogenated VOC tetrachloroethene. Furthermore, these analyses indicated that the loading of these compounds to the collectors had proceeded rapidly within the first week of exposure such that total exposures on the order of two weeks would be sufficient to attain the higher relative levels of these compounds best suited for Petrex TD-MS analysis. SAIC field operatives were informed of these findings and advised that all Petrex samplers installed within AOC-7 should be retrieved after receiving an exposure of approximately fourteen days.

SAIC field crew were first mobilized for sampler retrieval on August 11, 1994. Not all samplers were retrieved after an exposure of exactly fourteen days. However the majority of samplers were retrieved after exposures ranging from thirteen to fifteen days.

Only ten samplers received exposures deviating from this narrow range. These ten samples (from sampling grid coordinates M5 through M11, L5, L8, and L9) received an exposure of nineteen days. As the majority of the VOC's and SVOC's collected in this survey likely loaded to the Petrex samplers within the first week of exposure, and as the rate of adsorption of these compounds to the samplers greatly decreases once this point has been reached, it is likely that the additional four days average exposure experienced by these ten samplers had no significant effect on the reported response to targeted contaminant groups. A comparison of analytical results for these ten samples to analytical results for samples collected at neighboring points which received less exposure supports this conclusion. Levels of targeted compounds in the ten samples which received nineteen days' exposure are not anomalously high relative to levels of these same compounds in other samples from adjacent sampling points.

All Petrex soil gas samplers were submitted via overnight courier to NERI for analysis on August 17, 1994. Samplers were logged-in by NERI's laboratory on August 18, 1994 (see submittal and chain of custody documents).

During log-in, it was noted that samplers labeled #491, #492, #538, and #600 were missing from the original number intended to be submitted for analysis. Field crew indicated that these four samplers could not be retrieved due to obstructions or disturbance to the site. TD-MS analysis of all other Petrex soil gas samples (totaling one hundred and twenty-eight plus five travel blanks) was performed on October 24 and October 25, 1994.

7.0 QUALITY ASSURANCE/QUALITY CONTROL

7.1 Analytical Method

Please see the Petrex Protocol for a description of analytical method QA/QC procedures.

7.2 Lot Control

Quality assurance/quality control (QA/QC) collectors from each lot manufactured by NERI were analyzed by TD-MS to ensure that they were contaminant free before the lot of collectors used in the field was released from the Petrex laboratory. No compounds were detected above background on the QA/QC collectors.

7.3 Travel Blanks

Five Petrex soil gas samplers (labeled #617, #618, #619, #620, and #621) were incorporated into this survey as travel blanks. These travel blanks remained sealed and traveled with the survey samplers from the laboratory to the field and back to the laboratory. The purpose of the travel blanks was to indicate the potential for contamination of the soil gas samplers in shipping and storage. The travel blanks were analyzed under the same instrument conditions as the soil gas samples collected in the field. Results of TD-MS analyses of the travel blanks for the targeted compounds are provided in Table 1.

Analysis of travel blank #617, #618, #619, and #620 yielded no response to ions by which any of the volatile or semivolatile compounds targeted in this investigation are reported, and travel blank #621 yielded only trace levels by which C_6 and C_8 aromatic hydrocarbons are reported. These results indicate that it is unlikely that the Petrex samplers used in the survey of AOC-7 were contaminated in shipping and storage.

7.4 Sample Duplicates

Of the one hundred and twenty-eight (128) samples submitted and analyzed, thirteen (10%) contained an additional soil gas collector element for the purpose of yielding a duplicate sample for QA analysis. These duplicate samples were analyzed via TD-MS in the same analytical run during which all other soil gas samples were analyzed.

Comparison of the results of analysis of duplicate pairs indicates the following:

1. Response to targeted compounds varied by an average 36% from the mean. Percent variation in duplicate pair response values generally decreased (from 54% to 24%) with increasing magnitude of response. This phenomenon reflects the decreasing significance of low level instrument noise and background response relative to increasing response to targeted analytes.

2. Independent of the variation in magnitude of response, sample duplicates demonstrated similar composition. Ions derived from the same targeted compounds were identifiable in each sample of the duplicate pair and occurred in the same patterns of relative abundance by which the target compounds were identified and reported (compare mass spectra of duplicate samples #508 and #2508, #525 and #2525, and #604 and #2604)

Based on these findings it may be concluded that although analytical response to a particular soil gas environment varied, this variation was within an acceptable range. No variation between duplicate pair responses exceeded an order of magnitude, the basis on which most of the data were organized (and contoured on attach maps) for evaluation. The variation observed in this data set does not affect interpretation of results or fulfillment of the stated objectives of this survey.

8.0 RESULTS

8.1 Presentation

Soil gas survey results were produced through TD-MS analysis of one soil gas sample from each sample collection point.

TD-MS analysis allows for the identification of general contaminant groups (e.g., light weight aromatics) and several typically recognizable species (e.g., toluene). TD-MS analysis also allows for rapid and cost effective determination of the relative level of identified VOC's in each sample so that comparisons of these levels may be made between all samples collected from the site.

All VOC's and SVOC's contained in a soil gas sample are subjected to ionization and fragmentation in the mass spectrometer during TD-MS analysis. Individual compounds or compound groups are then identified by their unique and consistent pattern of ion abundance. The abundance of ions of any one specific atomic mass (in AMU) is translated as a "peak" on the mass spectrum. The relative level of a compound in a sample is reported from the abundance of the molecular ion (or height of the reporting peak) in ion counts. Table 2, below, lists the ions (or peaks) used to report the levels in the soil gas samples of the target compounds.

Table 2
Target Compound Reporting Ions

Compound	Reported Ions (AMU)
Total Aromatic Hydrocarbons	sum of: 78, 92, 106, 120, 134, 148, 162, 176, 190, and 204.
Total Semivolatile Hydrocarbons	sum of: 117, 128, 142, 153, 156, 178, 184, 198, 202, and 212.
Total C_5 to C_{11} Petroleum Hydrocarbons	sum of: 70, 72, 78, 84, 86, 92, 98, 100, 106, 110, 112, 114, 120, 124, 126, 128, 134, 138, 140, 142, 148, 152, 154, and 156.
Total Halogenated Hydrocarbons	sum of: 84, 101, 130, 146, 151, 164, and 174.

Reported survey results represent the combined TD-MS response to numerous compounds belonging to a targeted contaminant group (e.g., total aromatics). If any one component compound of the targeted contaminant group (e.g., C_9 aromatics) was not identified in a sample, a response value of zero was added in its place.

The letter designations "ND" and "H" appear in the place of some TD-MS response values in Table 1 and on Plates 2, 3, and 5. The letters "ND" denote that ions by which the targeted compounds are either reported or identified were not detected in that sample. The letter "H" denotes that ions from petroleum hydrocarbons equal in mass to ions from targeted halogenated hydrocarbons were detected at levels high enough to mask the potential co-occurrence of the halogenated hydrocarbons. TD-GC/MS analysis of several samples which may resolve the potential co-occurrence of petroleum hydrocarbons and halogenated hydrocarbons is pending (see subsection 8.2, below).

Results derived from two samples (#557 and #564) for volatile petroleum hydrocarbons have been replaced with the symbol "T". This designation indicates that the TD-MS results yielded by these samples do not accurately represent the level of petroleum hydrocarbons in the soil gas due to interference caused by terpene compounds (see section 8.2).

Survey results are presented in Table 1 and in Soil Gas Sample Mass Spectra in Appendices B and C, respectively. Plates 1 through 5 illustrate the areal distribution of targeted compounds in the soil gas. As these plates are oversized, they are provided separately and unbound.

TD-MS response to target compounds displayed in Plates 2 through 5 is highlighted by isopleths (contour lines). The sole purpose of these isopleths is to highlight naturally occurring differences (e.g., breaks or lows) in the range of analytical response to the target compounds. Population groupings by which isopleths were chosen are displayed in histograms of the data sets (see Appendix D). These isopleths help define areas of the site which exhibit elevated levels of the targeted compounds in the soil gas and, by doing so, aid in the interpretation of survey results.

8.2 Findings

Sample analysis indicated the occurrence of petroleum hydrocarbons common to fuels and oils, and numerous halogenated hydrocarbons common to solvents in the soil gas. However, not all compounds were detected in all samples.

The majority of the soil gas samples collected at AOC-7 exhibited low to moderate relative levels of C_4 to C_{10} petroleum hydrocarbons belonging to the various structural groups: alkanes, cycloalkanes, alkenes, cycloalkenes, dienes, aromatics, styrenes, and naphthalenics. These compounds are common constituents of most petroleum fuels, heating oils, light lubricating oils, and many other petroleum based products. The relative levels and proportions of these compounds detected in the majority of the samples is typical of what may issue from the dilute residue of petroleum products broadly dispersed in the subsurface environment.

A small minority of samples exhibited moderate to high levels of petroleum hydrocarbons from these same groups which ranged up to C_{15} in weight. The presence of high relative levels of petroleum hydrocarbons in the soil gas at particular sampling points, especially high relative levels of heavier, less mobile compounds, may signify that these sampling points are located at or in the vicinity of source areas of these petroleum hydrocarbons.

Two compositional characters were apparent among samples which contained these moderate to high relative levels of petroleum hydrocarbons. One character is typical of the composition of vapor from partially weathered light to medium weight fuels. The salient features of this character (exemplified by the mass spectra of samples #508 and #553) are pronounced levels of C_6 to C_{10} aromatics and abundant, though less pronounced, C_4 to C_{10} alkanes, cycloalkanes, and alkenes. Samples #506 through #510, #518, #540, #547, #553, and #603 demonstrated the highest levels of hydrocarbons forming this compositional character. The second compositional character is similar to that of vapor which may derive from variously weathered medium to heavy weight fuels or heating oils. The most notable features of this second character (exemplified by the mass spectra of samples #576, #604, and #616) are pronounced levels of C_6 to C_{14} cycloalkanes, alkenes, cycloalkenes, dienes, and styrenes. Samples #493, #520, #575 through #578, #597, #601, and #616 demonstrated the highest levels of hydrocarbons lending to this compositional character.

Because most fuel products contain light and medium weight aromatics, it is likely that pronounced levels of C_6 to C_{10} aromatics detected in some samples and suggestive of the presence of light fuels derive, in fact, from variously weathered and dilute residue of medium to heavy weight fuels or fuel oils.

Pronounced levels of semivolatile polycyclic hydrocarbons, specifically naphthalene, methylnaphthalene, and dihydro-1H-indene, were detected in many of the samples which possessed high levels of other medium and heavy weight petroleum hydrocarbons. This finding is expected as C_9, C_{10}, and C_{11} napthalenics are common constituents of most medium and heavy weight fuels or similar products. However, the soil gas at the collection points of samples #526, #571, and #589 (grid coordinates J14, R21, and O20, respectively) demonstrated pronounced levels of these compounds among only low relative levels of most of the other petroleum hydrocarbons detected on-site. This finding suggests that the soil gas in the vicinity of these three sampling points (and possibly at other locations on-site) may derive in part from products principally composed of these and other polycyclic hydrocarbons such as coal tar, creosote, etc.

Site history indicates that the solvent 2-butanone (methyl ethyl ketone) and the phthalate esters bis(2-ethylhexyl) phthalate and di-*n*-butyl phthalate may be contaminants of subsurface media within AOC-7. All samples were examined for the presence of elevated levels of these compounds, but no evidence of their existence was found. This finding may be a result of the chemical nature of these compounds.

Like all ketones, 2-butanone is miscible with water (soluble in all proportions). In the presence of water (including soil moisture), ketones will preferentially enter solution and not disperse as a gas. This phenomenon severely restricts the potential for ketones (and other compounds such as alcohols and ethers) to be detected in the soil gas. Ketones and other water soluble organic compounds are usually detected in the soil gas only when they have been recently released and occur at high concentrations in the near surface.

Phthalate esters are organic compounds of high molecular weight and possessing large and complex molecular structure. Due to their molecular structure, these compound demonstrate low volatility and high affinity for binding to other organic substances in the environment, including organic matter in soil. These two characteristics combine to greatly retard the yield of free vapor which may be detected in the soil gas. Thus, phthalate esters are more likely to be detected in the soil gas where they occur at high concentrations in the subsurface or when present in media very near the soil gas sample collection point.

Given the characteristics of 2-butanone and phthalate esters, it may be concluded that although they were not detected in any of the soil gas samples, these compound may still be present at levels of concern in subsurface media within AOC-7.

The halogenated hydrocarbon compounds detected in the soil gas at AOC-7 are tetrachloroethene (PCE), trichloroethene (TCE), trichloroethane (TCA), dichloromethane (also known as methylene chloride), trichlorofluoromethane (Freon-11), trichlorotrifluoroethane (Freon-113), chlorobenzene, dichlorobenzene (DCB), and a monobrominated C_7 hydrocarbon compound (see sample mass spectra in Appendix C).

PCE was the halogenated organic compound detected most frequently in the soil gas. The highest levels of PCE (over 100,000 ion counts) were detected in samples #541, #547, and #554. Elevated levels of dichloromethane and chlorobenzene were each detected only in one sample (#525 and #565, respectively). TCE was detected in a total of eleven samples. The highest levels of TCE (over 90,000 ion counts) were detected in samples #496, #522, #541, and #554. TCA was only detected in six samples and only at low relative levels. The highest level of TCA was detected in sample #496. Freon-11 and Freon-113 were detected in fourteen samples total. The highest level of Freon-11 was detected in sample #537, and the highest level of Freon-113 was detected in sample #548. DCB was detected in eight samples. Samples #553 and #568 demonstrated the highest levels of DCB.

A compound of molecular weight 174 (or 176, depending upon isotopic composition) was detected in samples #530 and #546. Sample #546 demonstrated the highest level of this compound. The exact identity of this compound cannot be confidently determined through TD-MS alone. However, based on TD-MS results its identity may be narrowed down to a monobromo-C_7-cycloalkene, -diene, or -alkyne (e.g., bromoethylcyclopentene, bromomethylhexadiene, bromoheptyne) TD-GC/MS analysis of the duplicate of sample #546 will be employed to accurately identify this compound.

Although other volatile halogenated organic compounds may be suspected to occur in the subsurface of AOC-7, no other compounds were clearly detected in the soil gas.

Ten samples yielded a high response to ions derived from petroleum hydrocarbons which have the same atomic mass as the principal ions derived from the halogenated hydrocarbons also targeted by this survey (see response to total halogenated hydrocarbons in Table 1 and Plate 5). This high response and coincidence of atomic masses has masked response to halogenated hydrocarbons of similar or lesser magnitude in these samples. Of these ten, samples #575, #576, #577, #578 and #616 contain levels of hydrocarbons capable of masking levels of halogenated hydrocarbons greater than 100,000 ion counts. To determine whether elevated levels of halogenated organics may also be present in these five samples, sample duplicates have been submitted for TD-GC/MS analysis. Chromatographic separation of individual compounds in each sample afforded by this analytical process should resolve between elevated levels of any halogenated compounds and petroleum hydrocarbons. TD-GC/MS analysis of these five samples is pending. Results will be reported as a separate document as soon as they are available.

Terpenes, hydrocarbon compounds derived from plant resins, were detected in sample #557 and #564. Terpenes may enter the soil gas naturally through plant growth or may be released into the environment as components of products containing terpenes (e.g., turpentine, natural oils, etc.). The level of terpenes in these two samples interfered with the reporting of medium and light weight petroleum hydrocarbons including aromatics. The recorded response levels yielded by these two samples for volatile hydrocarbons do not accurately reflect the level of these compounds in the soil gas due to this interference (see the mass spectrum of sample #564). Thus, the data are excluded from reporting and replaced with the letter "T" in Table 1 and on Plate 2. Despite this interference, and taking into account the effects of terpenes on the samples, TD-MS results indicate that only low relative levels of aromatic hydrocarbons and total C_5 to C_{11} petroleum hydrocarbons may be present in the soil gas at the collection point of sample #557. Similarly, it is unlikely that the soil gas at the collection point of sample #564 contains levels of total aromatics and total petroleum hydrocarbons on the order of 1,000,000 ion counts or more.

Results for the targeted compound groups and their areal distribution within the three separate sections of AOC-7 are discussed in greater detail in section 9.0, below.

The high sensitivity to organic compounds inherent in the Petrex Technique must be considered in the evaluation of these findings. Elevated relative levels of VOC's and SVOC's in the soil gas detected in this Petrex survey may derive from concentrations of these VOC's and SVOC's in subsurface media which are below the threshold of detection of most quantitative analyses.

9.0 DISCUSSION

9.1 Distribution of Total Aromatic Hydrocarbons

Total Aromatic Hydrocarbons are reported as the combined level of C_6 to C_{15} aromatic (benzene based) hydrocarbon compounds detected in the soil gas samples. The majority of the samples contained only the lighter weight (C_6 through C_{10}) aromatics. Very few samples were observed to contain C_{11} and heavier aromatic hydrocarbons.

The areal distribution of Total Aromatic Hydrocarbons in the soil gas at AOC-7 is displayed on Plate 2. Within Section -1 of AOC-7, elevated levels of aromatics occur in the soil gas principally in the along the northern margin of Section -1 where it borders the access road. Additional points exhibiting elevated levels of aromatics occur along the southern margin where it borders the asphalt lined holding pond. The coincidence of elevated levels of aromatic hydrocarbons with structures bordering Section -1 suggests that they may derive from petroleum products used in connection with these structures. Several of the samples from the border areas of Section -1 demonstrate high relative levels of an assortment of hydrocarbons, not just aromatics, which are characteristic of the vapor of weathered medium to heavy weight fuels or heating oils.

The majority of the highest levels of aromatics in the soil gas were detected within Section -2. Elevated levels of aromatics were detected in several large zones covering a significant portion of Section -2 and adjoining the margins of Section -2 to the south and west. Within Section -2, these zones encompass large portions of the access road traversing AOC-7. Past and current road maintenance practices should be reviewed to determine if they could relate to releases of fuel-like petroleum products to the subsurface. Findings of elevated levels of aromatics in the soil gas on the margins of Section -2 may indicate that elevated levels of aromatics occur in the soil gas beyond present study area boundaries and may relate to structures nearby but outside of the current study area. Aromatics in the soil gas in zones in the south of Section -2 are mixed with other hydrocarbons which, together, are predominantly characteristic of vapor from weathered light to medium weight fuels (see the mass spectrum of samples #508). Aromatics in the soil gas in the north of Section -2 are combined with hydrocarbons predominantly characteristic of heavier fuels (see the mass spectrum of sample #576). This finding may indicate that the aromatics and other petroleum hydrocarbons detected in Section -2 derive from two or more parent products.

The soil gas within Section -3 generally manifested only low relative levels of total aromatic hydrocarbons. the most elevated levels of aromatics were detected at the collection points of samples #568 and #589 (grid coordinates R18 and O20). The elevated levels of aromatics in sample #589 co-occurred with very high levels of naphthalene and methylnaphthalene. This finding suggests that the aromatics and other hydrocarbons in the soil gas in the vicinity of this point likely derive from the release of a petroleum product high in semivolatile polycyclic compounds such as coal tar, creosote, or heavy fuel oils.

Although high levels of terpenes have obscured potentially moderate to high relative levels of aromatics in the soil gas at the collection point of sample #564 (grid coordinate Q18), it may be observed from the position of this sampling point and from results for aromatics at neighboring points that the occurrence of very high levels of aromatics is unlikely. Furthermore, the more probable occurrence of moderate levels of aromatics at this sampling point would only extended the small zone already defined by the adjoining sampling point to the west and otherwise provide information of little import to the evaluation of the site as a whole.

9.2 The Distribution of Total Semivolatile Hydrocarbons

Total semivolatile hydrocarbons are reported as the combined response to naphthalene, C_{11} through C_{15} alkyl naphthalenes, and C_{12}, C_{14}, and C_{16} polycyclic hydrocarbons. These compounds are constituents of creosote, coal tar, and other heavy, high boiling point fraction petroleum products. Naphthalene, and C_{11} and C_{12} alkyl naphthalenes (e.g., methylnaphthalene and ethyl- or dimethylnaphthalene) are also often found in medium to heavy weight fuels and fuel oils. A review of the mass spectra of all samples which yielded an elevated response to semivolatiles indicated that very few semivolatile compounds over C_{13} in molecular weight may be present in the soil gas, and that the majority of the responses derive from the presence of naphthalenics. The distribution of semivolatile hydrocarbons in the soil gas at AOC-7 is displayed by Plate 3.

Within Section -1 elevated levels of semivolatiles generally co-occur with elevated levels of other medium to heavy hydrocarbons typical of having derived from medium to heavy weight fuels or fuel oil. Only sample #605 demonstrates a prominent level of a C_{14} compound. Although the identity of this compound may not be determined through TD-MS alone, results suggest it is likely a polycyclic petroleum hydrocarbon. TD-GC/MS analysis of the duplicate of this sample may help to more accurately identify this compound.

Pronounced levels of semivolatile hydrocarbons were also detected in the soil gas within Section -2 of AOC-7. These compounds generally occurred in the soil gas in two zones corresponding to the path of the access road in the eastern portion of Section -2. High levels of semivolatile compounds within these zones were detected in combination with high levels of other petroleum hydrocarbons common to medium to heavy weight fuels or fuel oils. The residue of these or similar products could issue from on-site structures or the access road.

A pronounced level of naphthalene and dihydro-1H-indene was detected in the soil gas at the collection point of sample #526 (grid coordinate J14) in the near absence of elevated levels of other petroleum hydrocarbons (see the mass spectrum of this sample). This finding suggests that heavy weight petroleum products, particularly coal tar products, may have been released in this area.

Elevated levels of semivolatile hydrocarbons were also detected in AOC-7 Section -3. The most pronounced levels of semivolatiles, principally naphthalene and methylnaphthalene, occurred in samples #571 and #589 (from sampling grid coordinates R21 and O20). Although the levels of naphthalene and methylnaphthalene were significantly higher in sample #589 the composition of these two samples were very much alike: pronounced levels of naphthalenics occurred among significantly less pronounced levels of aromatics and other light and medium weight petroleum hydrocarbons. Elevated levels of naphthalenics were detected in only two other samples from Section -3, #568 and #583, and in both of these samples levels of other hydrocarbons were high relative to the levels of naphthalenics present. Overall results for semivolatile hydrocarbons in the soil gas of Section -3 suggest that petroleum products particularly high in naphthalene and methylnaphthalene may have been released to the subsurface within the current study area.

As the mobility of organic compounds in the subsurface environment generally decreases with increasing molecular weight or complexity of molecular structure, high levels of C_9, C_{10}, and C_{11} semivolatile compounds in the soil gas likely correspond to source areas of these and other petroleum hydrocarbons.

9.3 The Distribution of Total C_5 to C_{11} Petroleum Hydrocarbons

Total C_5 to C_{11} petroleum hydrocarbons reported here include alkanes, cycloalkanes, alkenes, cycloalkenes, dienes (referred to collectively as aliphatics), plus aromatic and naphthalenic compounds. In various combinations, these compounds, together, make up the bulk of most petroleum fuels, oils, and lubricants. Total C_5 to C_{11} petroleum hydrocarbons are reported to best illustrate the occurrence in the soil gas of petroleum product vapor of which aromatic and semivolatile compounds may not be prominent components. Although C_4 hydrocarbons were also detected in most samples, the levels of C_4 compounds are excluded from reporting as they (and lighter weight species) are commonly found in most environments.

The areal distribution of total C_5 to C_{11} petroleum hydrocarbons in the soil gas on-site is displayed in Plate 4. The distribution of total petroleum hydrocarbons is similar to that of aromatics alone.

Within Section -1 high levels of total petroleum hydrocarbons occur near the northern and southern margins of the study area where it borders the road and the edge of the holding pond. The assortment of C_5 to C_{11} hydrocarbons in the soil gas in these areas is most like that which may derive from weathered heavy weight fuels or fuel oils. The prominence of heavy and semivolatile compounds among these petroleum hydrocarbons suggests that coal tar products may have been mixed with these fuels or may have been released coincidentally at points in these border areas. Adjacent structures may be source areas of these petroleum products.

Section -2 demonstrated the greatest potential impact by total petroleum hydrocarbons. Elevated levels of a broad assortment of petroleum hydrocarbons define several large zones within the study area. These zones encompass portions of the access roads which traverse Section-2 and generally manifested combinations of compounds typical of weathered medium to heavy weight fuels. This finding suggests that petroleum products used in the construction or maintenance of the roads may be primary sources of high levels of hydrocarbons in the soil gas and the near surface environment. The high relative levels of petroleum hydrocarbons in the soil gas at several points outside of the path of the access roads (such as at grid coordinates G15, J14, and M14) suggests that other sources of petroleum hydrocarbons may also be present within or nearby Section -2, and/or petroleum products used in connection with the access roads impact wider portions of the study area.

Within Section -3 elevated levels of total petroleum hydrocarbons occurred at the collection points of samples #568 (at grid coordinate R18) and at the collection point of sample #589 (at grid coordinate O20). In sample #589 these petroleum hydrocarbons included particularly high levels of naphthalenic compounds characteristic of a coal tar product. In sample #568 elevated petroleum hydrocarbons include many heavy weight compounds and the semivolatile hydrocarbon methylnaphthalene. Except for the parking lot to the west, no structures currently exist in the vicinity of these points which could relate to sources of these hydrocarbons. Thus, releases associated with past land use may be suspected.

Note that despite the interference to the detection of petroleum hydrocarbons caused by high levels of terpenes in the soil gas at the collection point of sample #564 (grid coordinate Q18), results for petroleum hydrocarbons at neighboring points suggest that the occurrence of high levels of these compounds are unlikely. Furthermore, should more moderate levels of these compounds be present, the small zone already observed in this portion of Section -3 would be enlarged only slightly. This additional information would be of little consequence to the interpretation of results for Section -3 as a whole.

9.4 The Distribution of Total Halogenated Hydrocarbons

Total Halogenated Hydrocarbons are reported as the combined levels in the soil gas of tetrachloroethene (PCE), trichloroethene (TCE), trichloroethane (TCA), dichloromethane, trichlorofluoromethane (Freon-11), trichlorotrifluoroethane (Freon-113), chlorobenzene, dichlorobenzene (DCB), and a monobromo-C_7 hydrocarbon. The majority of these compounds are used most often as solvents and cleaning agents. The Freons detected here may also have been used as refrigerants. The identity and likely use of the brominated hydrocarbon is unknown.

The areal distribution of halogenated hydrocarbons in the soil gas is displayed in Plate 5. PCE was detected much more frequently in the soil gas than were the other halogenated organics. Thus, the majority of the elevated responses to Total Halogenated Hydrocarbons shown in Table 1 and on Plate 5 principally reflect the presence of PCE in the soil gas. Significant exceptions to this rule are the pronounced level of dichloromethane detected in sample #525, the pronounced level of chlorobenzene detected in sample #565, and the pronounced levels of the brominated hydrocarbon detected in samples #530 and #546.

Only low relative levels of halogenated hydrocarbons were detected within AOC-7 Section -1. These compounds may derive from the past release (and subsequent dispersion) of solvent products within or nearby Section -1

Several areas within Section -2 demonstrated elevated levels of halogenated hydrocarbons including dichloromethane and the brominated hydrocarbon mentioned above. Unlike the distribution of petroleum hydrocarbons, the distribution of halogenated hydrocarbons within Section -2 does not appear to relate to the location of the access roads or other extant structures. This finding suggests that the halogenated hydrocarbons within Section -2 derive from past land use. Slight east-west elongation of the zones of elevated halogenated hydrocarbon levels in the soil gas within Section -2 suggest that these compounds may be subject to some downgradient migration in the subsurface. The extension of zones of elevated halogenated hydrocarbon levels to southern and western margins of the study area may indicate that similarly elevated levels of halogenated organics occur beyond study area boundaries to the south and west.

Note, interference to the identification of halogenated hydrocarbons by petroleum hydrocarbons demonstrated by samples #575, #576, #577, #578, and #616 (from grid coordinates I6, I7, I8, I9, and H10) has little effect on the findings discussed above. Furthermore, and independent pending TD-GC/MS analyses, review of the TD-MS data set indicates that the level of total halogenated hydrocarbons which could be obscured by petroleum hydrocarbons would not exceed 1,000,000 ion counts in samples #575, #576, #577, and #578 or 2,000,000 ion counts in sample #616. Should total halogenated hydrocarbons occur at these relative levels in the soil gas at these five sampling points the zone of high halogenated hydrocarbon levels in the north central portion of Section -2 would be enlarged to extend toward the east to encompass a portion of the access road. Except for the road bed, no additional potential source areas would be indicated.

The pronounced occurrence of chlorobenzene at the collection point of sample #565 (grid coordinate Q17) is the most prominent feature of the distribution of halogenated hydrocarbons within Section -3. Lower levels of a mixture of halogenated compounds were detected nearby this point and to the south at the collection point of sample #562 (grid coordinate Q20). As with Section -2, the occurrences of elevated levels of halogenated hydrocarbon within Section -3 do not coincide with the location of existing structures. Thus, potential sources of these compounds may relate to historic land use.

10.0 CONCLUSIONS

From the findings of this Petrex soil gas survey the following conclusions may be drawn:

1. Elevated levels of petroleum hydrocarbons are present in the subsurface of AOC-7. These hydrocarbons likely derive from medium to heavy weight fuels or fuel oils, but the residue of coal tar products may also be present. The greatest potential impact to the subsurface by petroleum hydrocarbons occurs within Section -2, although several points within both Section -1 and Section -3 demonstrate levels of petroleum hydrocarbon compounds of concern. Hydrocarbons in the subsurface within Sections -1 and -2 may stem from construction or maintenance practices associated with on-site or nearby structures, particularly the access road. Within Section -3, the occurrence of petroleum hydrocarbons in the subsurface likely derives from past land use.

2. Elevated levels of halogenated hydrocarbons, mostly those used as commercial solvents, but also an uncommon brominated organic compound, occur in the subsurface of AOC-7. The greatest potential impact to the subsurface by these compounds is demonstrated by Section -2. Section -1 demonstrates the least potential impact. The distribution of halogenated hydrocarbons in the subsurface within each section is unrelated to existing aboveground structures, and, hence, likely derives from source areas relating to past land use. These organic compounds may be subject to subsurface migration particularly within Section -2.

4. Any verification of soil gas results for petroleum hydrocarbons should begin with testing of soil and groundwater from the collection points of samples #510, #518, #526, #577, #589, #605, #615, and #616 (grid coordinates G15, M14, J14, I8, O20, C2, A4, and H10, respectively). Each of these locations exhibited the highest levels of petroleum hydrocarbons in the soil gas in each section of AOC-7 surveyed.

5. Any verification of soil gas results for halogenated hydrocarbons should begin with testing of soil and groundwater (particularly at the interface with bedrock or other confining units) from the collection points of samples #525, #546, #554, #565, and #598 (grid coordinates K14, J6, K8, Q17, and E2, respectively). These locations exhibited the highest combined levels in the soil gas of the halogenated hydrocarbons detected in each section of AOC-7 surveyed.

6. The environmental significance of the existence of petroleum hydrocarbons and halogenated hydrocarbons in the subsurface can only be evaluated through quantitative testing of soil and groundwater.

11.0 LIMITATIONS

This report represents NERI's professional interpretation and judgment based on technical information gathered during investigative activities. Professional judgments expressed herein are restricted to facts available within the established limits of the scope of work, budget, and schedule. NERI assumes no responsibility for the existence or disclosure of conditions which did not come to its knowledge, or conditions not generally recognized as environmentally unacceptable, at the time this report was prepared.

It is NERI's specific intent that all observations and conclusions presented will be used as a guide and not necessarily a firm course of action unless explicitly stated as such. No warranties are expressed or implied and the information included in this report is not to be construed as legal advice.

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APPENDIX A
PETREX PROTOCOL

REVISED SEPTEMBER 1993

PETREX ENVIRONMENTAL SOIL GAS PROTOCOL

INTRODUCTION

The PETREX Technique provides a means by which trace quantities of gases from subsurface derived organic contaminants can be detected and collected at the earth's surface. The Technique is integrative, thereby eliminating the short-term variations associated with other gas/vapor detection methods. The PETREX Technique directly collects and records a broad range of organic compounds emanating from subsurface sources.

SOIL GAS COLLECTOR PREPARATION

Adsorption collector wires (after construction) are cleaned by heating to 358° C in a high vacuum system. Wires are packed under an inert atmosphere in glass culture tubes. One collector out of every batch of thirty is checked for cleanliness by mass spectrometry. Another collector from the batch is checked for adsorptive capability. Based on the results, the batch of collectors is approved for release into the field.

SOIL GAS SAMPLER INSTALLATION

The sampler consists of two or three collectors, each a ferromagnetic wire coated with an activated charcoal adsorbent in a screw top glass culture tube. Each sampler is typically placed in a shallow hole, 14-18 inches deep. The hole is backfilled and the location is marked. The sampler is left in the ground from one to thirty days, then retrieved and sealed for transportation back to the laboratory for analysis.

The PETREX soil gas sampling technique is adaptable to various surface conditions commonly encountered within survey areas. These surfaces typically include concrete, asphalt, grass, and gravel. Two installation methods are routinely utilized to adapt to these surface conditions.

The first method utilizes a coring shovel for sampler installations in grass or otherwise loosely consolidated soil conditions. The shovel cores a 14 inch deep by 2 inch diameter hole in the surface soils.

PETREX soil gas samplers are placed (open end down) at the bottom of each core hole. The samplers are then backfilled with an aluminum foil plug and the original excavated soil. To complete installation, sample locations are marked with ribbon flagging and a numbered pin flag, as well as entered into a field notebook and plotted on a field map.

The second method of sampler installation utilizes an electric rotary hammer, equipped with an 18 inch by 1.5 inch diameter drill bit, for sampler installations under concrete, asphalt, or otherwise consolidated conditions. A hole is drilled through the surface to the dimensions of the drill bit equipped to the rotary hammer.

PETREX soil gas samplers are placed at the bottom of each drilled hole. For retrieval purposes, a cleaned galvanized steel wire is attached to each sampler. Aluminum foil is used to plug each hole to approximately two inches below grade. Then each hole is capped to grade with hydraulic cement. The hydraulic cement serves as protection from the external surface environment.

To complete sampler installation, sampler locations are marked with paint (where applicable), entered into a field notebook, and plotted on a field map.

SOIL GAS SAMPLER RETRIEVAL

PETREX soil gas samplers are retrieved following a time period that has allowed for the soil gas emanating from the subsurface environment of a survey area to equilibrate with the installed PETREX samplers. This time integration period is determined for each PETREX soil gas survey based on time calibration data or site conditions.

Retrieval operations are dependent on surface conditions and routinely consist of the following two methods.

The first method applies to grass covered or loosely consolidated soil conditions. A trowel is utilized to expose the backfilled samplers; then with a pair of tongs, the samplers are brought to the surface. At the surface, the samplers are sealed, cleaned, and labeled. Following retrieval, all debris are gathered and the core hole is backfilled with original material.

The second method applies to concrete, asphalt, or other consolidated surface conditions. A hammer and chisel is utilized to remove the hydraulic cement plug and expose the sampler. By means of the pre-attached retrieval wire, the sampler is brought to the surface. At the surface, the retrieval wire is removed and the sampler is sealed, cleaned, and labeled. Following retrieval, each drill hole is backfilled and patched with cement or asphalt.

TIME CALIBRATION SAMPLERS

Time calibration samplers are included in PETREX soil gas surveys, as appropriate. These samplers are included as a means of monitoring the loading rates of volatile and semivolatile organic compounds (VOCs and SVOCs) emanating from the soil gas at a survey area onto the PETREX collectors.

During PETREX sampler installation, two sets of three to five time calibration samplers are also installed at survey sample locations that best represent the range of soil gas response for the survey area. These representative locations are determined based on previous soils and/or groundwater studies and other site specific conditions such as gradient and potential source areas.

The first set of time calibration samplers are generally retrieved within a week or less following the initial installation and the second set one week later. Often, permanent on-site personnel are instructed to perform time calibration sampler retrieval.

Lengths of exposure periods of the survey samplers for each survey are determined based on the results of each respective set of time calibration samplers. Time calibration samplers are usually analyzed within 24 hours upon receipt at the laboratory. At the first indication of significant relative ion count intensities and significant total ion count values, the decision is made to retrieve the entire complement of survey samplers.

If there are no significant relative ion count intensities detected from the second set of time calibration samplers, then the survey samplers are allowed to equilibrate in the field for a maximum time period of up to 30 days. The average environmental PETREX soil gas survey requires a collector integration period of one day to two weeks.

METHOD QA/QC

Within every survey sampler, the two or three collector wires should have adsorbed identical compounds. Like compounds on separate collectors relate an acceptable quality assurance (QA) during the survey's analysis. The first wire is analyzed by Thermal Desorption/Mass Spectrometry (TD/MS). The data from the first wire is reported on the relative response maps. The second wire is retained for analysis by Thermal Desorption-Gas Chromatography/Mass Spectrometry (TD-GC/MS), if warranted by the initial TD/MS analysis of the second wire.

Approximately ten percent of the total PETREX survey samplers contain three collector wires. The third collector wire, a QC collector wire, is used by the operator to test the mass spectrometer's operating conditions prior to survey analysis. Some of these quality control (QC) collectors are also used to check the mass spectrometer sensitivity during survey analysis. In addition, the QC collector may be used to compare the reproducibility of the detected VOCs.

TRAVEL BLANKS

Two PETREX samplers, each containing a single collector wire, are included with each PETREX soil gas survey as travel blanks. These blanks are analyzed with the survey samplers to indicate whether there may have been contamination introduced to the survey samplers during installation or shipment. If compounds other than normal atmospherics (e.g., CO_2, H_20, N_2, and Ar) are detected on the blanks, these results are taken into consideration in the data presentation. This process, an initial step to data interpretation, involves the correction of ion count values of the detected blank contaminants from the entire survey's data set. The resulting ion count values are provided on the relative response maps.

MASS SPECTROMETER TUNING

An Extranuclear Quadrupole C-50 Mass Spectrometer or similar instrument, equipped with a Curie-point pyrolysis/thermal desorption inlet, is used for collector analysis. Mass assignment and resolution are manually adjusted using a Perfluorotributylamine (PFTBA) standard or a built-in tuning program, depending on the instrument. A linear correction, based on the known spectrum of PFTBA, is calculated. This correction is applied to a second PFTBA spectrum. If correct mass (M/Z) values are obtained, the operator proceeds to the next tuning step. If not, Step 1 is repeated until correct masses are obtained.

Peak intensity ratios are set from the major peaks in the PFTBA spectrum using the following values:

Mass (M/Z)		Spectrum Intensities
69	=	100%
131	=	48% ± 5%
219	=	50% ± 5%

During tuning, the ion signal for mass (M/Z) 69 of PFTBA is measured at a preset sample pressure and detector voltage and compared to previous values at the same setting.

Electron energy is set to 70 electron volts. All other operating parameters, such as scans, scan range, and mass offset, are established in the computer program. These values may only be changed by the laboratory manager.

Tuning is performed at the beginning of a run so that an individual survey is analyzed at the same set of instrument conditions. The samplers are analyzed in random order.

LABORATORY ANALYSIS

Periodic machine background and blank PETREX collector analyses are performed to assure that there is no carry-over between successive collectors. If there are peaks present which are not related to atmospheric gases, the supervisor is notified and the mass spectrometer is shut down and cleaned as necessary.

A written sample number record is kept during the analysis to prevent accidental cross numbering. The mass spectrometer control program contains appropriate "flag statements" that prompt the operator with a warning if an input sample number has already been analyzed. The operator then checks the current number, along with the disk storage location of the previously entered number to identify the true numbering situation.

COMPOUND IDENTIFICATION

Compound identification is based on molecular weight, compound fragmentation, and isotope distribution, as applicable. Each VOC exhibits a unique mass spectral signature. NERI maintains a large library of spectra of individual compounds, accessible by computer. In addition, the company maintains a large library of mass spectra of commonly used chemical mixtures; e.g., gasolines, diesels, industrial oils and solvents, coatings, plastics, etc. These spectra are used to assist in both compound and mixture identifications.

The ion count response of an indicator peak(s), representative of the compound and away from interference by other compounds, is extracted for data presentation and mapping.

INTERPRETATION OF SOIL GAS DATA

Soil gas data (including PETREX) reflect volatile and semivolatile organics collected at a point in the near surface. The sources of these volatile organics may be in the stratigraphic column and/or in groundwater below the collection point. Thus, the organics can be derived from surface spills, deposition, or migration into the deeper vadose zone, and groundwater. The soil gas survey reveals the areal extent of contamination and is the optimum guide in identifying areas in order to develop a vertical profile, including the drilling of soil borings and monitoring wells.

Soil gas data are always semi-quantitative in that multiple sources in soil and/or groundwater cannot be differentiated. However, the higher ion responses are representative of higher concentrations in the subsurface, given that geologic conditions are relatively consistent.

Due to chemical differences between individual compounds, including their ability to both adsorb and desorb from the charcoal PETREX collector element, it is invalid to compare the ion count of a compound at one sampling location to that of another compound.

Patterns of compound distribution in the soil gas, as detected at the surface, can be strongly influenced by irregularities in the near surface and subsurface environment through which the soil gas diffuses. These irregularities include subsurface man-made structures, such as concrete foundations, drainage systems, and wells, and such naturally occurring structures as fractured and unfractured bedrock, clay, and shale lenses.

Other factors influencing the soil gas signal include ground and surface water, the free carbon content of soils, microbiotic activity in the soil, and natural and synthetic ground cover.

All of these factors indicate that the most powerful use of soil gas data is in reconnaissance; identifying and mapping the relative abundance of the widest array of chemical species and mixtures. Efforts to relate soil gas response directly to groundwater or soil contaminant concentrations is generally not regarded as productive owing to the assumptions that are required for heterogeneity and source distribution.

RELATIVE RESPONSE DETERMINATION AND MAPPING

The relative response values are reported as the ion counts of indicator peaks for any given compound or mixture. Sample locations on a base map are digitized as X-Y coordinates and ion counts for the reported compounds are plotted at respective locations.

Mapping of the ion counts occurs after contour intervals for each compound or component class are determined. In order to establish the contour intervals, factors such as statistical analysis of ion count distribution, physiochemical considerations, and component-source material relationships (if known) are taken into account for each compound or class, in each area, on an individual basis. Each map is then contoured by hand. The resultant contour zones for each compound or component class in each area are color coded on a relative basis depending on whether the data are interpreted to be of high, moderate to high, moderate, etc., intensity. The response values found on each of the response maps are color coded and contoured on this basis.

APPENDIX B
TABLE 1

Table 1: AOC-7 Petrex Soil Gas Survey Results

NERI Project: 2114-5E
Site: Operable Unit -5, USDOE Mound Facility
Analysis: Thermal Desorption - Mass Spectrometry
Date of Analysis: 10/24/94 to 10/25/94
Units: Ion Counts

Sample #	Total Aromatic Hydrocarbons (a)	Total Semivolatile Hydrocarbons (b)	Total C5 to C11 Petroleum Hydrocarbons (c)	Total Halogenated Hydrocarbons (d)
479	67,501	ND	108,008	3,821
480	539,200	726	981,039	ND
481	119,988	719	346,176	15,449
485	607,004	15,063	1,209,546	ND
486	28,797	5,446	101,626	ND
487	306,667	ND	749,159	ND
488	249,265	71,656	1,214,694	ND
489	434,117	1,562	1,031,575	ND
490	2,057,702	72,366	4,591,843	32,206
2490 (e)	4,728,651	87,456	9,541,594	51,771
493	598,917	135,334	3,107,406	72,735
494	1,571,454	65,218	2,612,512	44,263
495	3,623,308	53,003	5,827,726	26,490
496	831,560	22,396	3,329,528	288,234
497	77,860	1,293	178,329	6,798
498	531,096	3,741	973,698	ND
499	295,095	6,142	930,720	5,901
500	909,593	15,697	2,520,019	33,120
501	593,581	729	1,477,605	101,943
2501 (e)	214,642	ND	513,729	26,398
502	573,996	637	940,277	10,450
503	193,181	16,016	528,536	ND
504	171,044	29,352	509,384	ND

Table 1 (cont'd)

Sample #	Total Aromatic Hydrocarbons (a)	Total Semivolatile Hydrocarbons (b)	Total C5 to C11 Petroleum Hydrocarbons (c)	Total Halogenated Hydrocarbons (d)
505	671,420	40,620	1,638,142	1,046
506	1,831,526	116,957	6,271,199	34,185
507	1,807,763	381,362	7,148,477	ND
508	1,811,011	269,875	4,256,720	ND
2508 (e)	1,722,014	211,709	4,031,883	ND
509	2,793,266	651,450	8,313,073	H
510	7,159,340	75,730	10,350,957	ND
511	ND	1,236	25,326	ND
512	127,610	ND	388,233	ND
513	92,031	14,131	235,086	5,909
514	66,326	31,267	222,697	ND
515	71,331	ND	123,260	ND
516	50,788	16,216	79,578	ND
517	8,332	688	27,968	ND
518	8,036,594	66,815	18,175,056	ND
519	520,288	8,985	1,034,192	86,086
520	1,175,275	321,415	7,913,233	H
521	39,926	1,429	99,345	ND
522	1,653,025	41,243	5,046,978	367,920
523	443,755	500	840,028	ND
524	569,289	2,076	1,117,515	4,839
525 (f)	50,297	4,297	1,586,646	821,711
2525 (e)(f)	10,714	ND	251,923	139,096
526 (g)	1,166,450	2,983,072	3,111,656	4,368
527	20,912	2,099	38,503	ND
2527 (e)	3,296	ND	3,812	ND
528	509,131	ND	1,129,567	8,176
529	6,925	ND	20,133	ND
530 (i)	184,942	ND	42,270	175,509

Table 1 (cont'd)

Sample #	Total Aromatic Hydrocarbons (a)	Total Semivolatile Hydrocarbons (b)	Total C5 to C11 Petroleum Hydrocarbons (c)	Total Halogenated Hydrocarbons (d)
531	79,061	788	190,983	ND
535	61,170	913	128,398	ND
536	314,751	3,231	872,962	4,449
537	264,100	7,560	637,399	32,561
539	2,238,243	73,476	3,719,622	53,287
540	6,375,239	121,438	10,115,218	79,676
541	1,493,450	14,229	3,228,730	558,785
542	15,249	1,321	47,942	ND
2542 (e)	10,337	3,148	45,708	ND
543	253,401	3,820	666,675	ND
544	231,144	73,376	597,062	ND
545	40,348	38,379	176,154	49,661
546 (i)	3,476,015	21,708	5,067,129	1,725,378
547	5,888,132	270,659	15,688,206	200,473
548	1,047,082	81,883	2,304,435	107,034
549	454,149	17,731	1,156,691	ND
2549 (e)	459,332	2,564	1,020,139	ND
550	477,896	2,422	981,643	ND
551	1,578,934	53,501	3,227,308	19,499
552	1,535,282	78,692	2,745,106	49,779
553	3,214,777	16,374	6,332,135	207,728
554	40,398	854	159,147	882,049
555	381,011	13,973	751,671	7,654
556	414,093	1,130	780,918	ND
557	T	889	T	ND
2557 (e)	T	4,438	T	ND
558	104,341	9,382	244,545	ND
559	424,372	624	841,077	3,747
560	293,305	ND	719,706	10,500

Sample #	Total Aromatic Hydrocarbons (a)	Total Semivolatile Hydrocarbons (b)	Total C5 to C11 Petroleum Hydrocarbons (c)	Total Halogenated Hydrocarbons (d)
561	233,463	5,790	404,603	ND
562	399,277	8,643	1,242,145	124,321
563	155,940	21,535	294,464	4,886
564	T	32,651	T	9,391
565 (k)	626,523	79,884	1,967,778	1,617,579
566	52,434	8,342	119,983	ND
567	36,199	625	75,949	ND
568	1,094,388	167,988	3,076,400	94,162
569	269,744	ND	466,773	ND
570	299,328	5,194	558,048	19,443
571	157,904	207,122	467,282	ND
572	1,158,161	13,274	2,560,411	10,734
2572 (e)	513,746	3,561	1,252,076	ND
573	686,238	13,521	1,364,006	29,003
574	631,380	86,443	3,697,499	31,243
575	2,695,385	818,514	32,066,864	H
576	1,412,087	656,598	9,664,805	H
577	6,568,079	2,702,090	40,530,223	H
578	4,371,691	1,315,210	19,879,640	H
579	485,384	2,669	826,156	7,030
580	33,791	3,991	60,365	ND
581	104,472	ND	284,800	ND
582	42,645	5,727	170,460	22,048
2582 (e)	27,247	11,238	133,984	13,889
583	590,234	177,981	1,177,921	ND
584	346,978	ND	662,890	ND
585	330,365	56,167	678,863	ND
586	93,745	3,840	271,919	8,540
587	222,703	ND	419,912	4,972

Table 1 (cont'd)

Sample #	Total Aromatic Hydrocarbons (a)	Total Semivolatile Hydrocarbons (b)	Total C5 to C11 Petroleum Hydrocarbons (c)	Total Halogenated Hydrocarbons (d)
588	16,462	1,523	53,292	ND
589	4,340,025	9,999,745	17,410,904	ND
590	306,649	1,362	577,739	13,972
591	422,968	1,029	1,296,810	19,696
592	71,754	ND	153,618	3,628
593	270,489	ND	332,909	ND
594	132,918	ND	198,457	ND
595	427,679	734	917,680	4,105
2595 (e)	360,887	3,988	844,453	1,904
596	176,907	2,201	515,722	4,197
597	1,115,610	200,794	6,764,904	H
598	875,319	11,898	2,388,282	49,109
599	310,421	18,076	725,921	ND
601	943,166	147,619	2,693,524	H
602	55,032	75,734	252,794	4,710
603	3,451,718	71,420	7,053,921	10,722
604	357,030	35,266	734,350	ND
2604 (e)	627,505	49,820	1,235,121	ND
605	1,297,975	616,200	3,213,807	31,804
606	194,685	39,588	418,568	ND
607	190,294	1,797	336,847	5,862
608	432,796	62,021	926,618	29,722
609	57,746	692	259,221	19,612
610	213,992	2,724	420,752	ND
611	802,298	8,292	1,408,426	ND
612	43,871	ND	78,123	ND
2612 (e)	145,464	1,228	237,291	ND
613	90,799	ND	137,104	ND
614	165,351	30,098	345,216	ND

Table 1 (cont'd)

Sample #	Total Aromatic Hydrocarbons (a)	Total Semivolatile Hydrocarbons (b)	Total C5 to C11 Petroleum Hydrocarbons (c)	Total Halogenated Hydrocarbons (d)
615	1,457,474	343,584	2,944,933	H
616	6,178,955	1,386,010	18,939,611	H
617 *	ND	ND	ND	ND
618 *	ND	ND	ND	ND
619 *	ND	ND	ND	ND
620 *	ND	ND	ND	ND
621 *	2,464	ND	2,464	ND

Key:
(a) Intensity of response to ions of atomic masses 78, 92, 106, 120, 134, 148, 162, 176, 190, and 204.
(b) Intensity of response to ions of atomic masses 117, 128, 142, 153, 156, 178, 184, 198, 202, and 212.
(c) Intensity of response to ions of atomic masses 70, 72, 78, 84, 86, 92, 98, 100, 106, 110, 112, 114, 120, 124, 126, 128, 134, 138, 140, 142, 148, 152, 154, and 156.
(d) Intensity of response to ions of atomic masses 84, 101, 130, 151, 164, and 174.
(e) This sample is a duplicate of the preceding sample.
(f) A pronounced level of dichloromethane was detected in this sample.
(g) A pronounced level of the semivolatile compound dihydro-1H-indene was detected in this sample.
(i) A pronounced level of a mono-brominated hydrocarbon compound was detected in this sample.
(k) A pronounced level of chlorobenzene was detected in this sample.
H High levels of petroleum hydrocarbons have interfered with the identification of halogenated hydrocarbons in this sample; see text.
T High levels of terpenes have interfered with the detection of volatile petroleum hydrocarbons in this sample; see text.
ND The targeted compounds were not detected in this sample.
* Travel Blank

APPENDIX C
SAMPLE MASS SPECTRA

Sample Number

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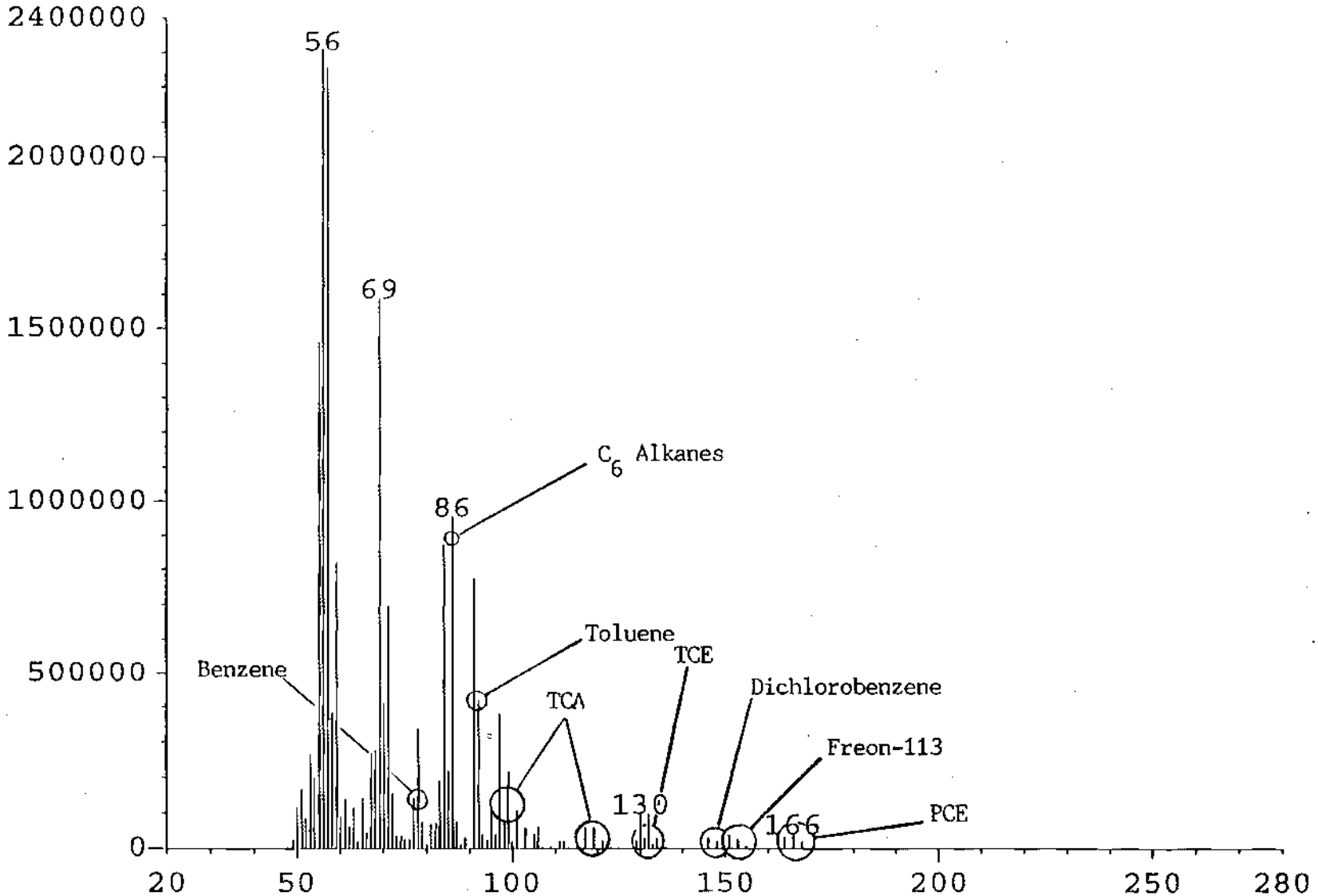

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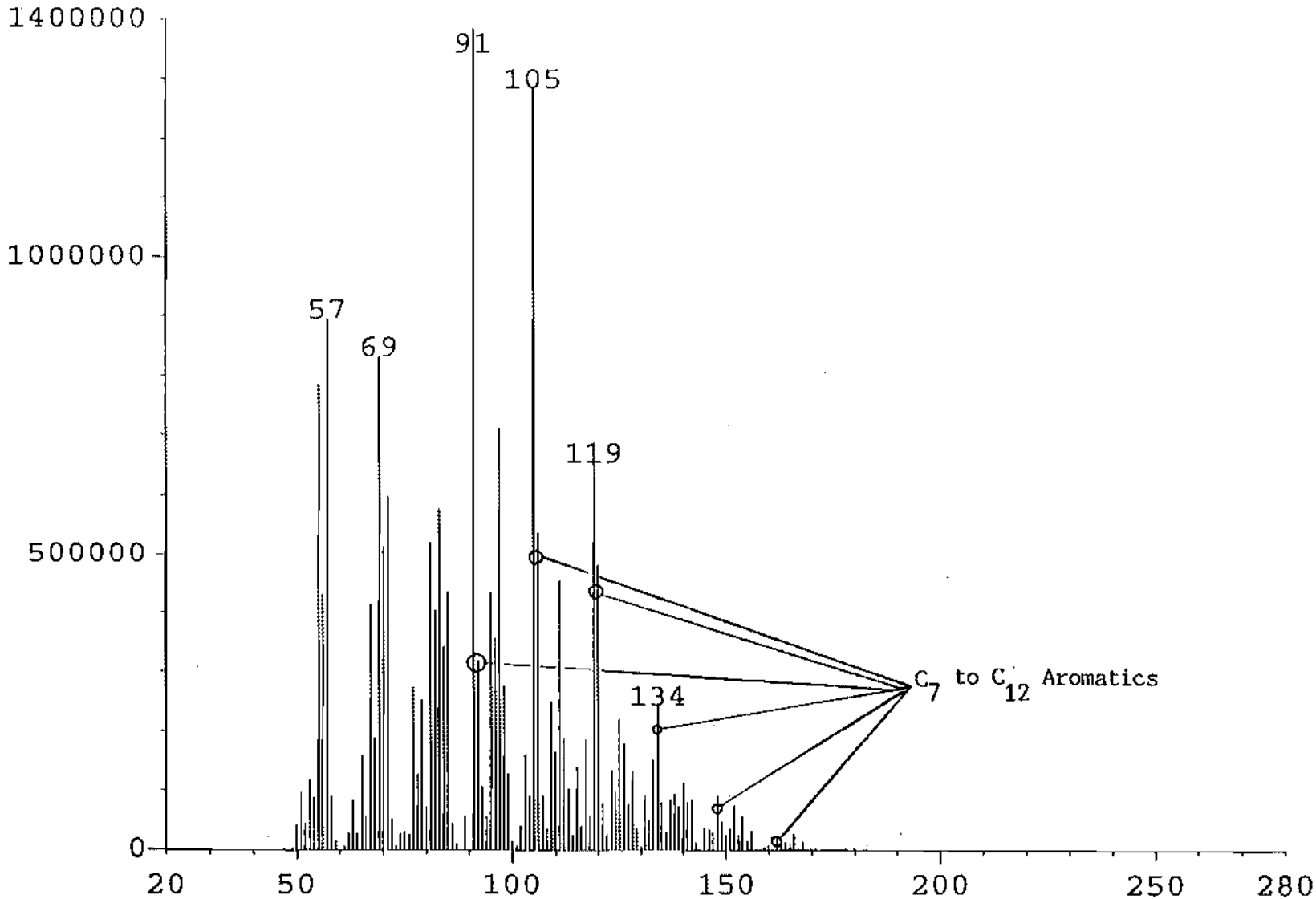

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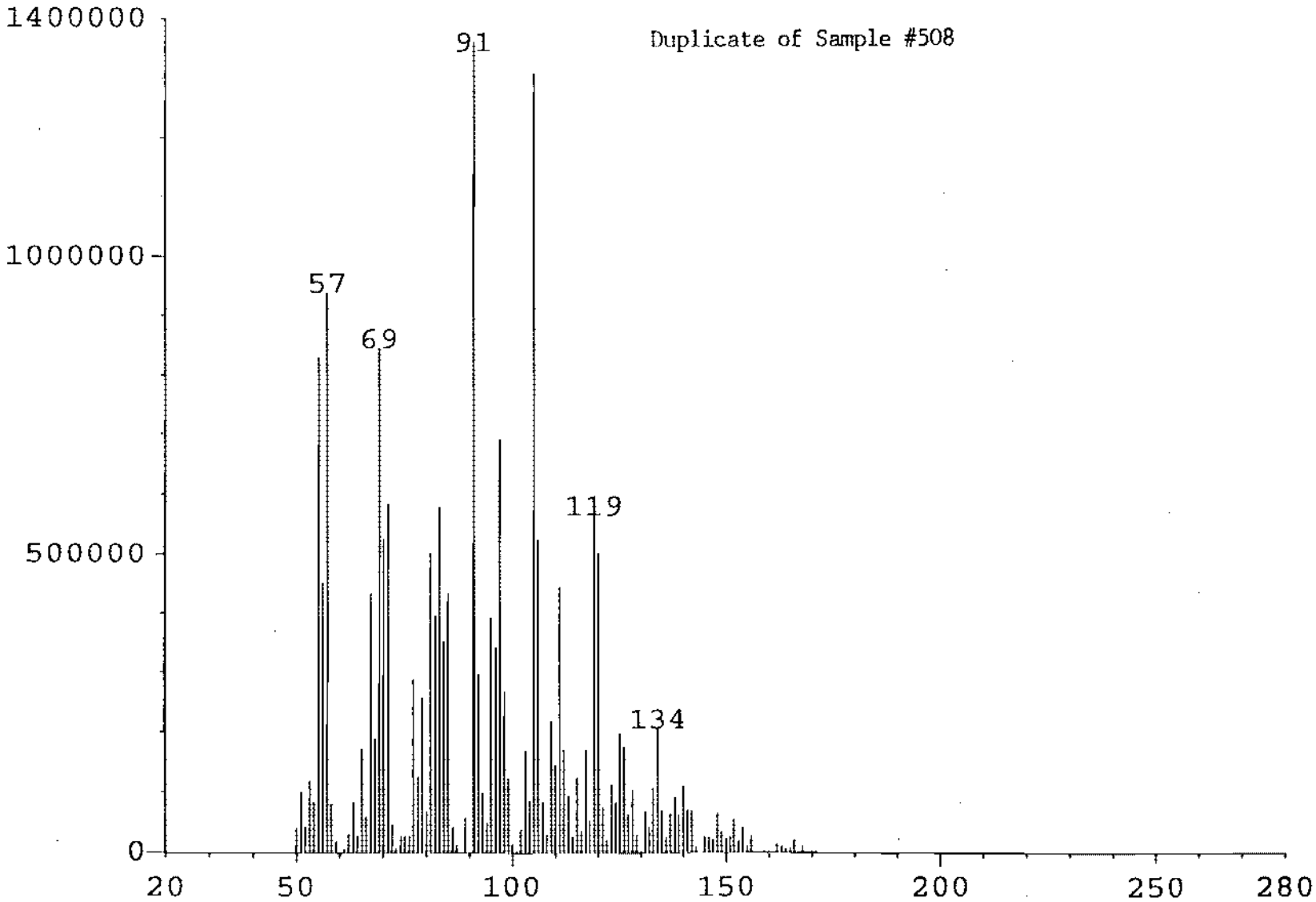

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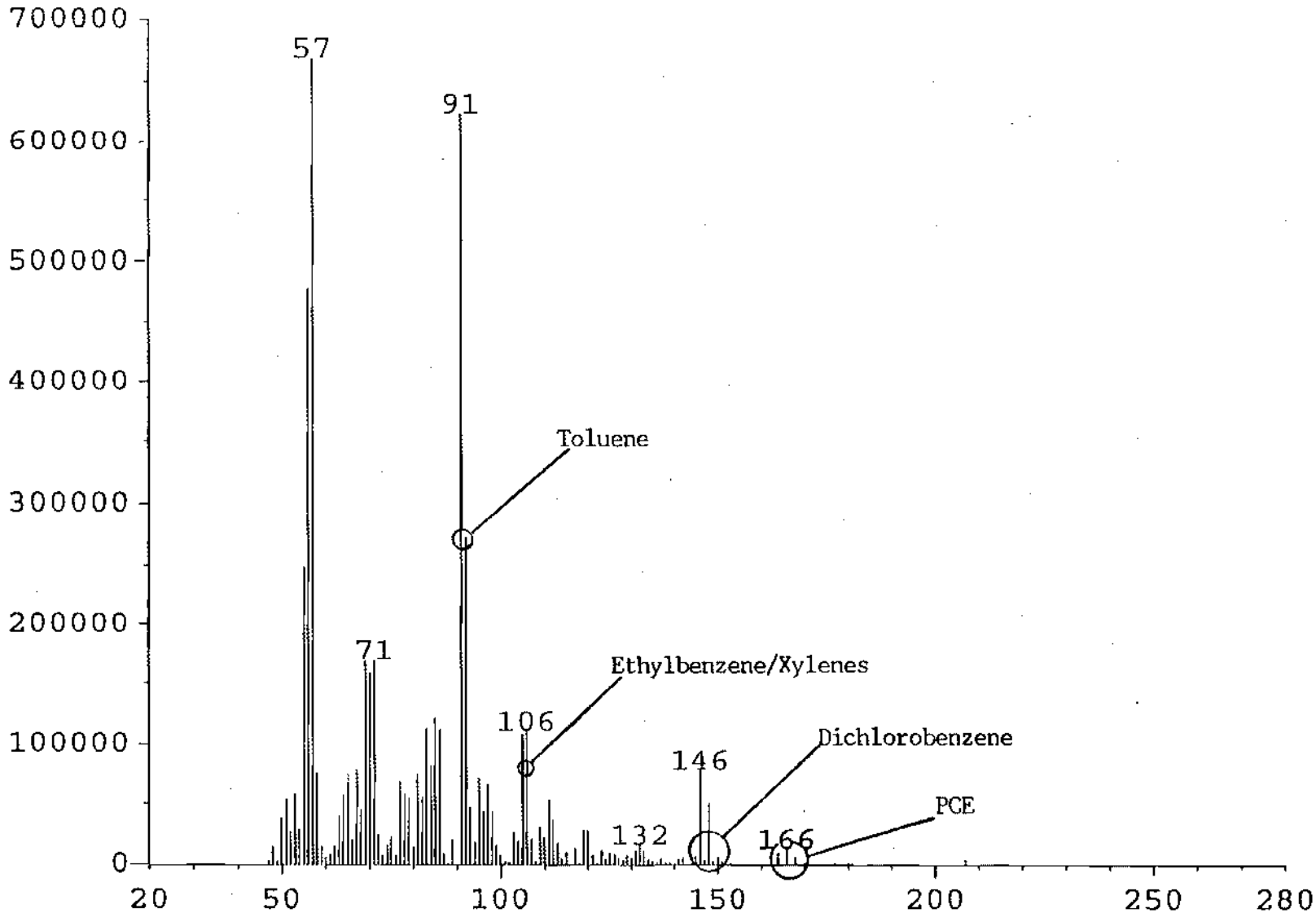

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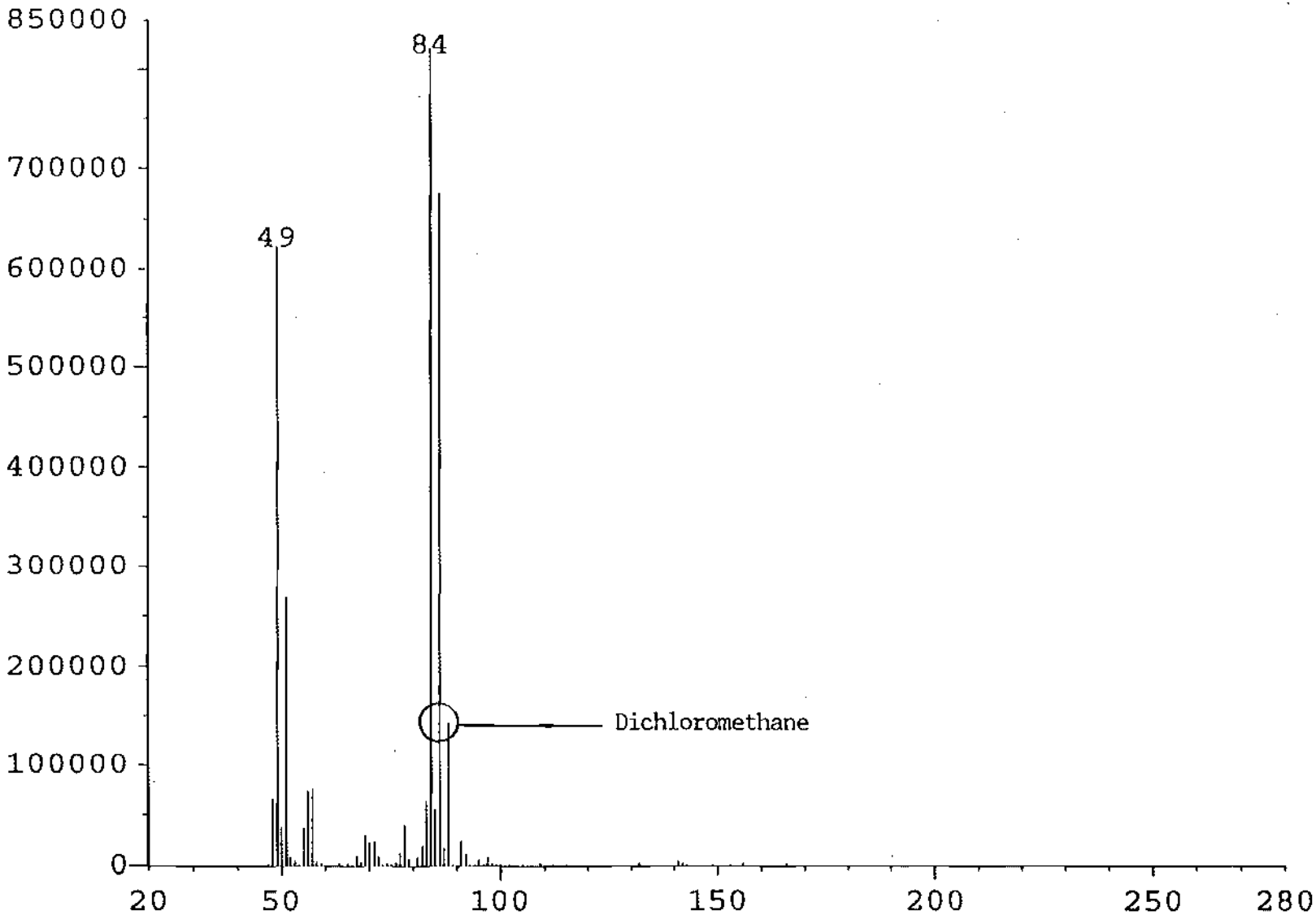

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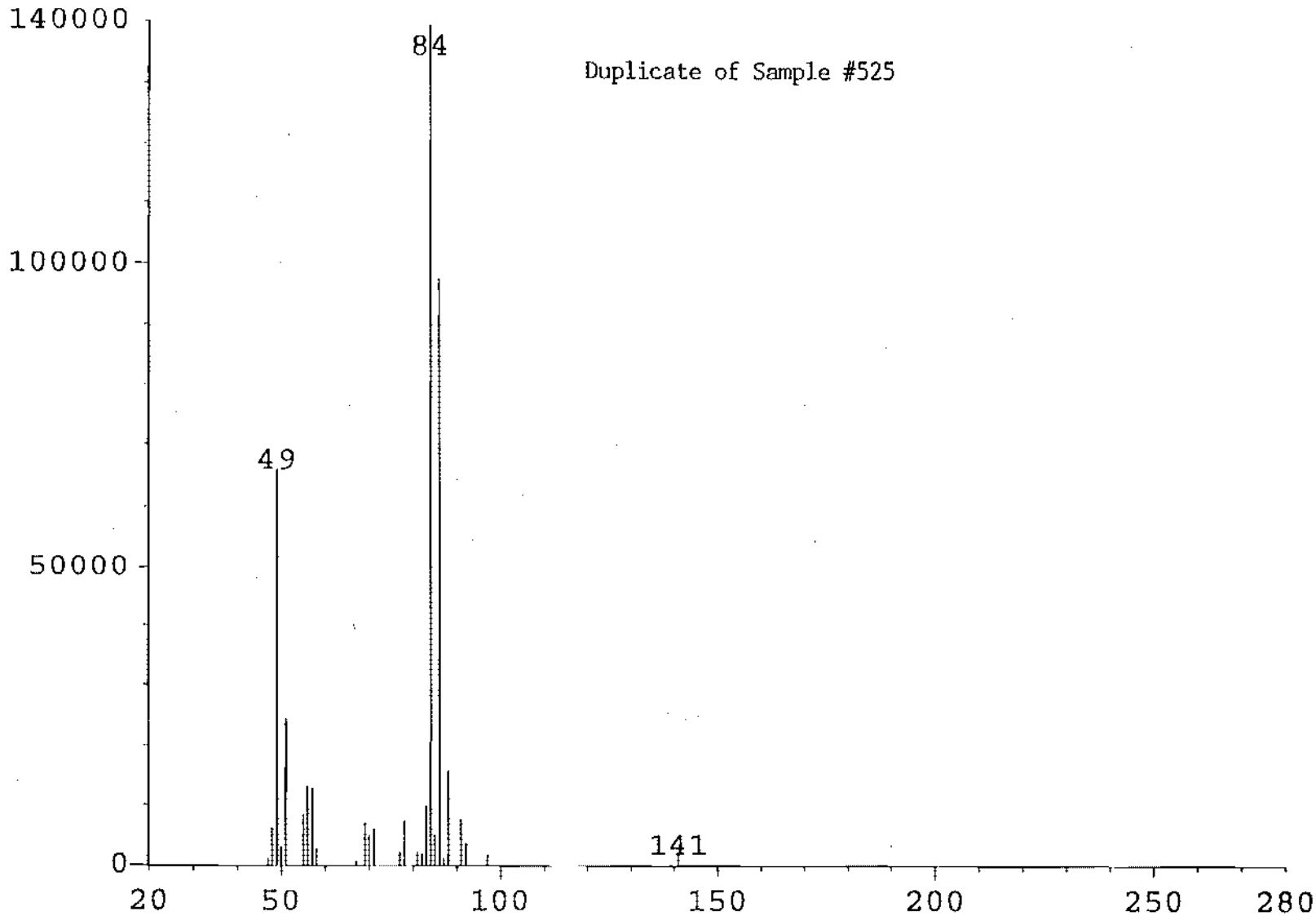

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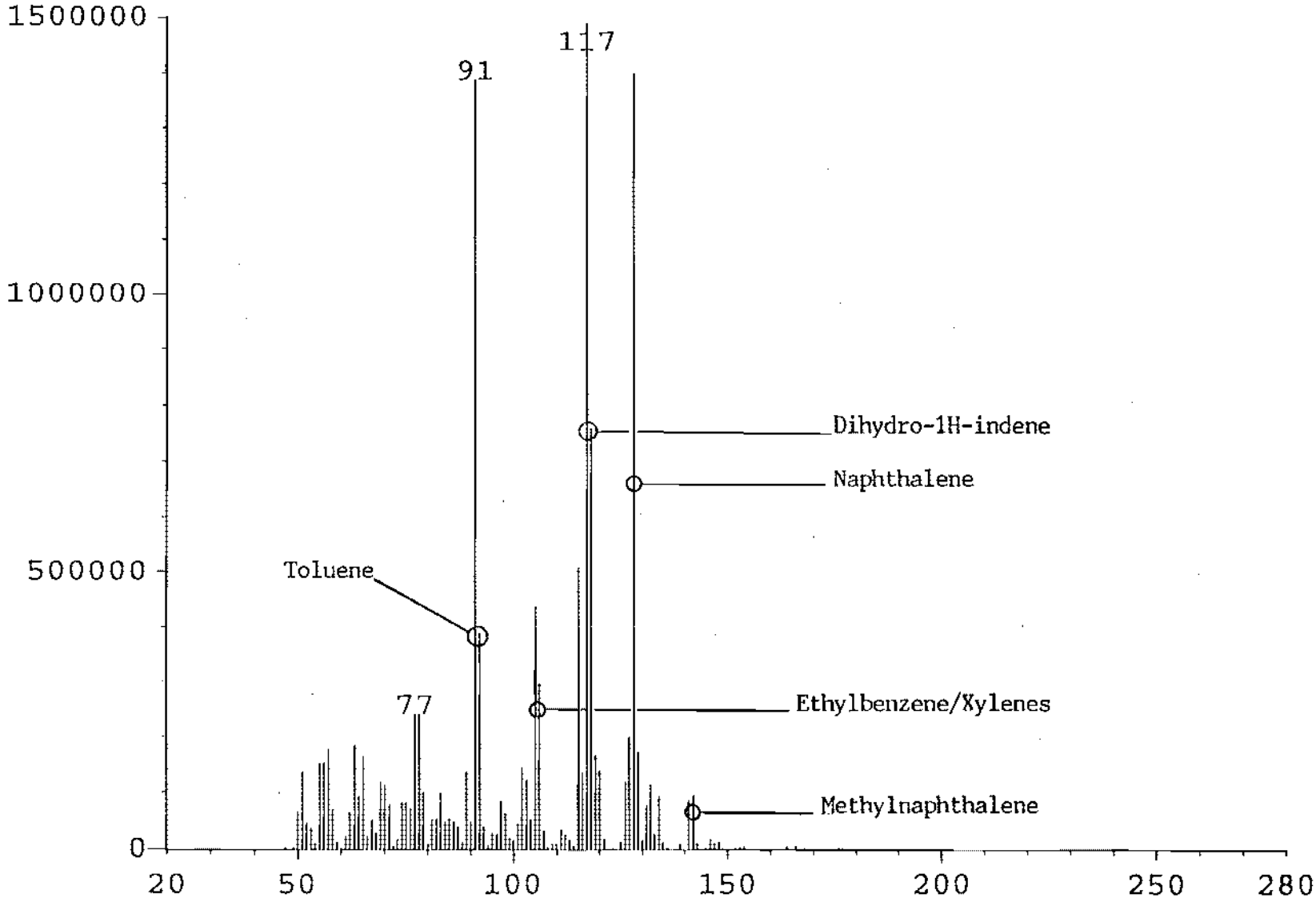

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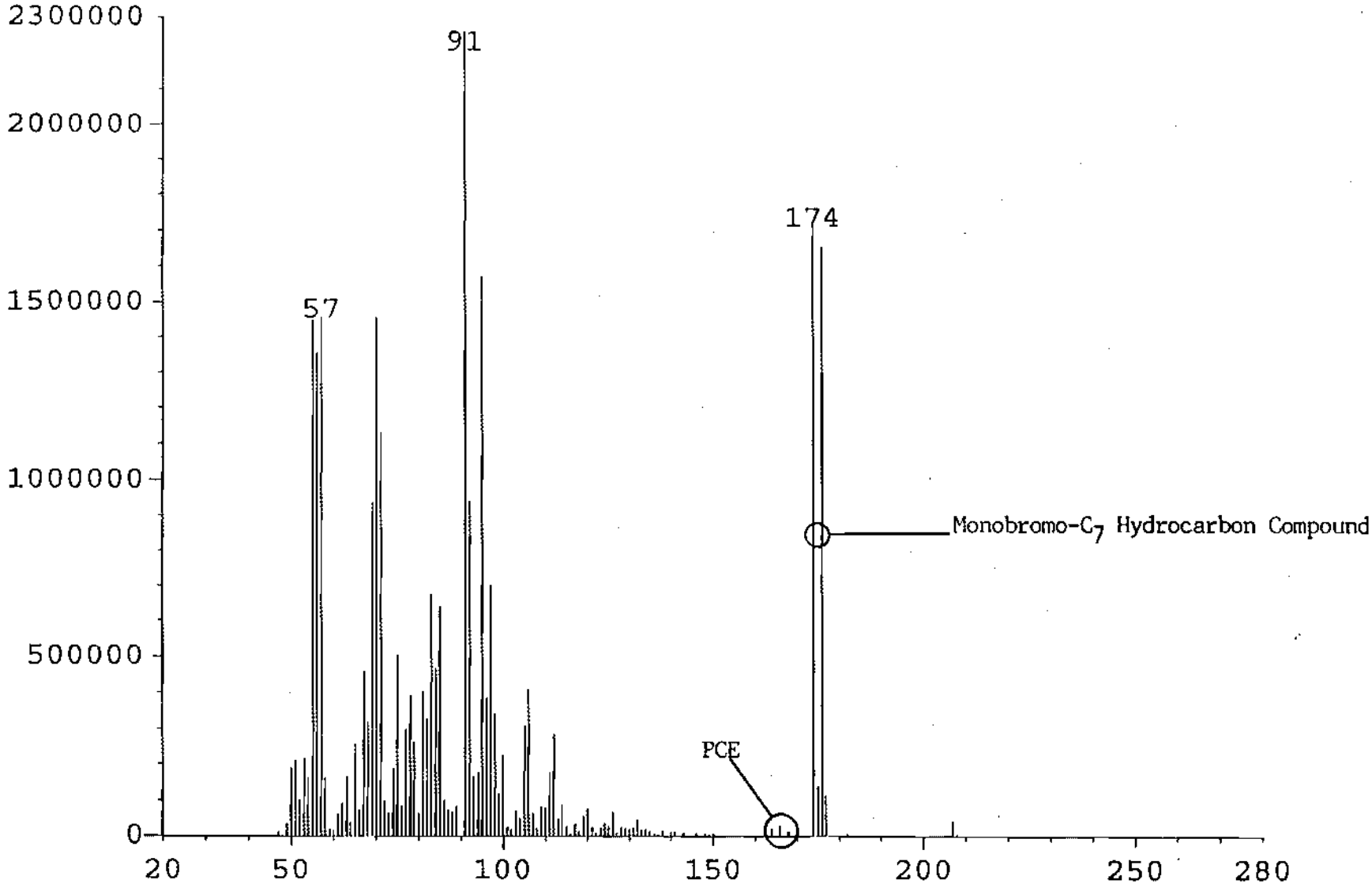

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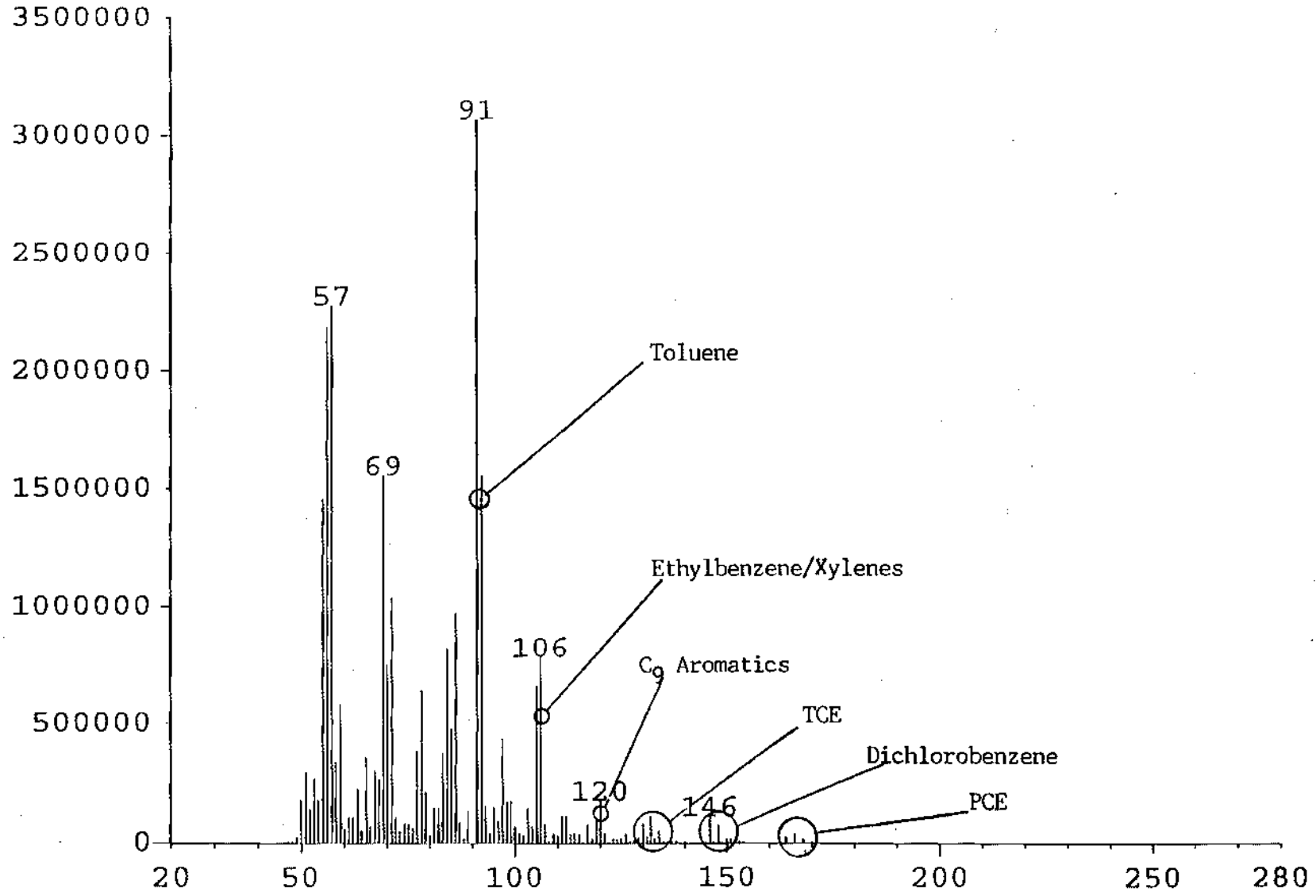

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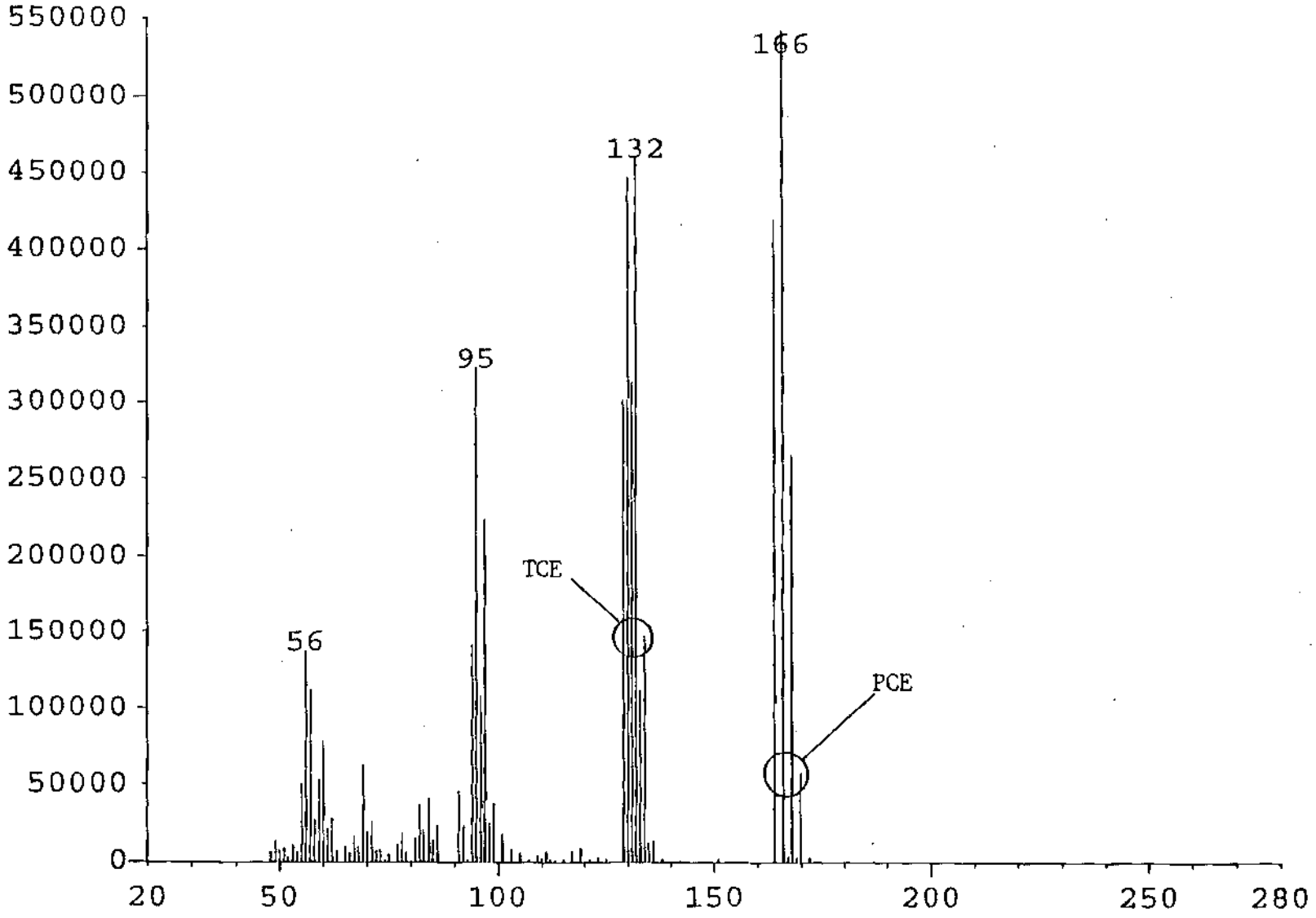

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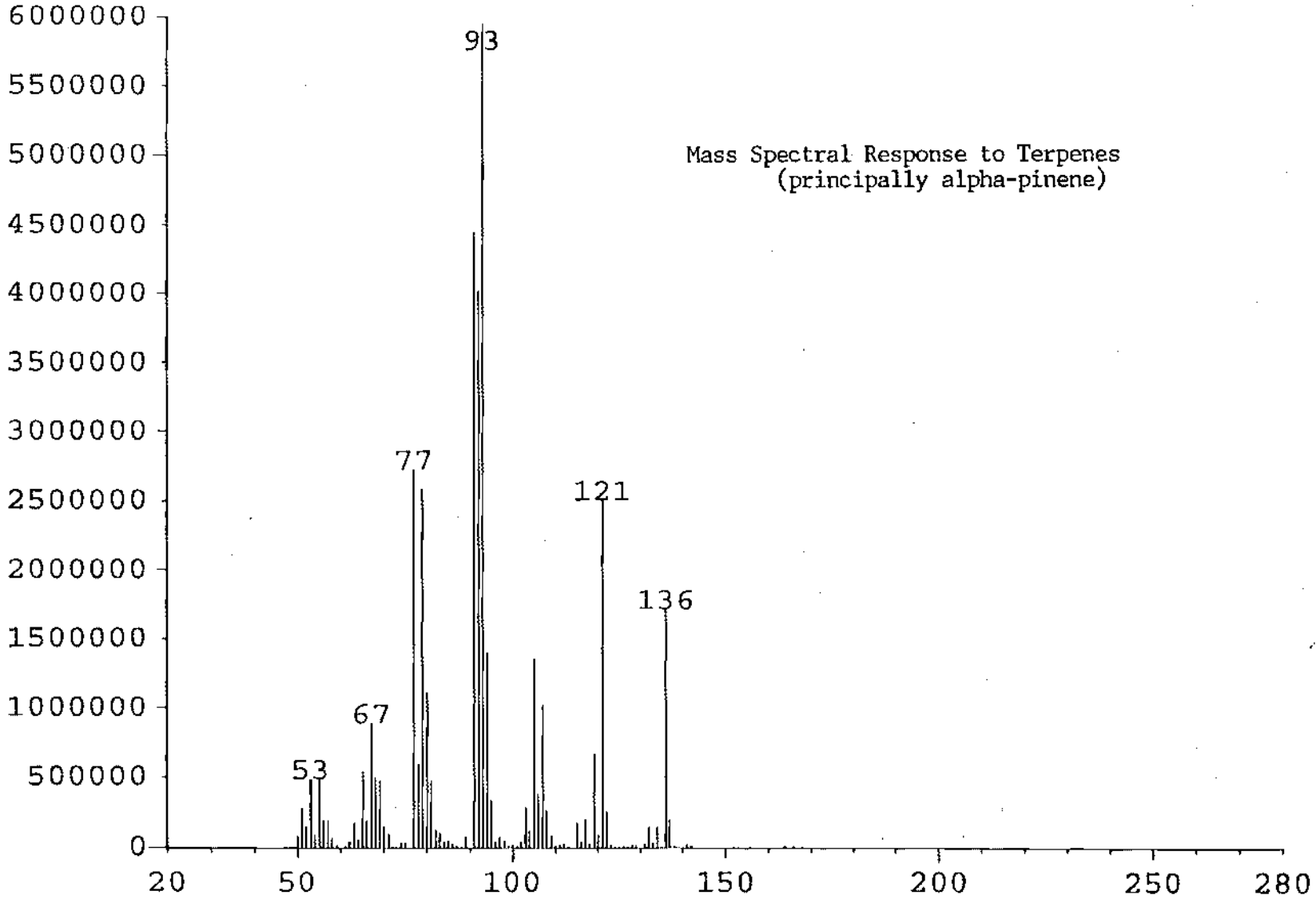

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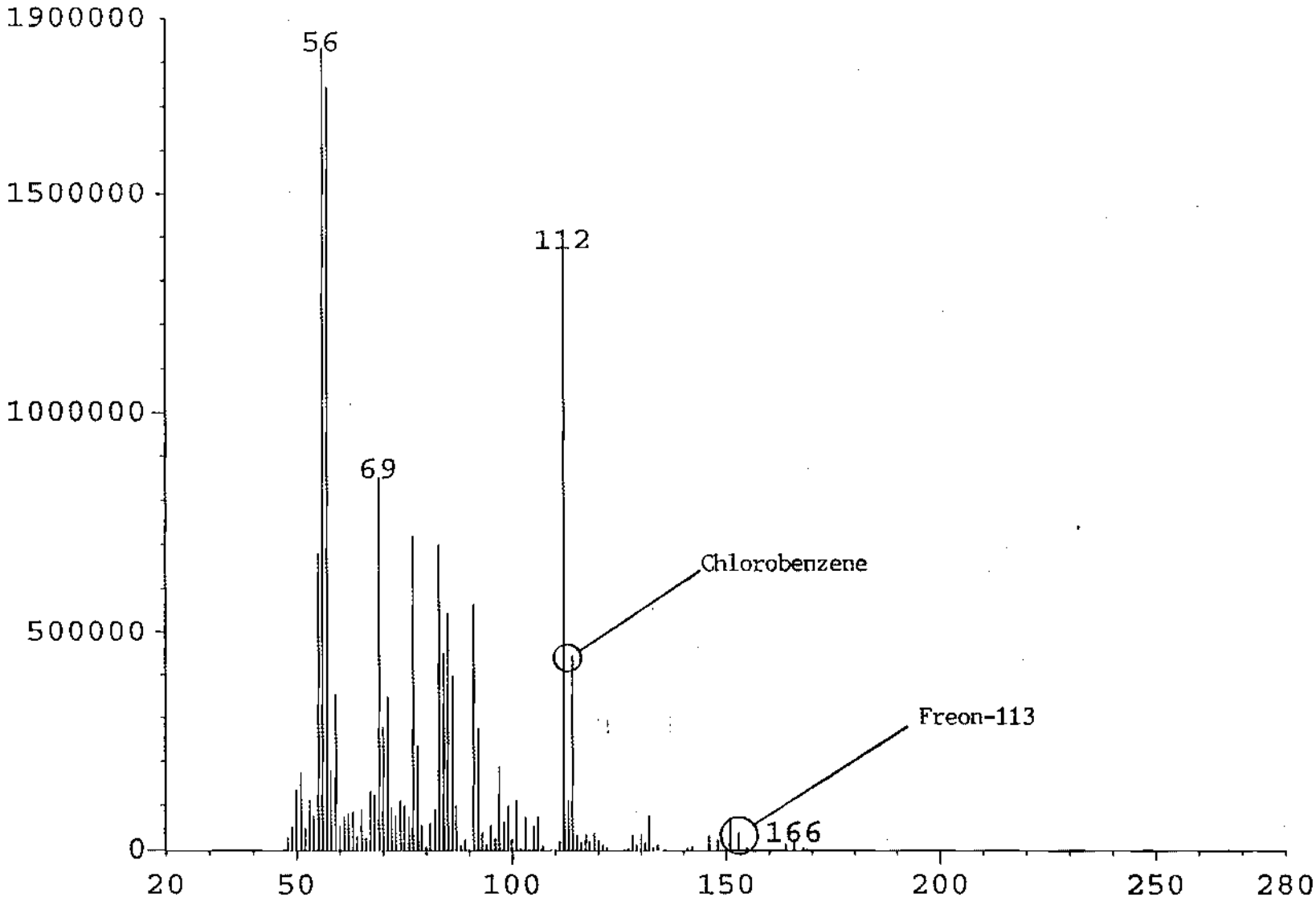

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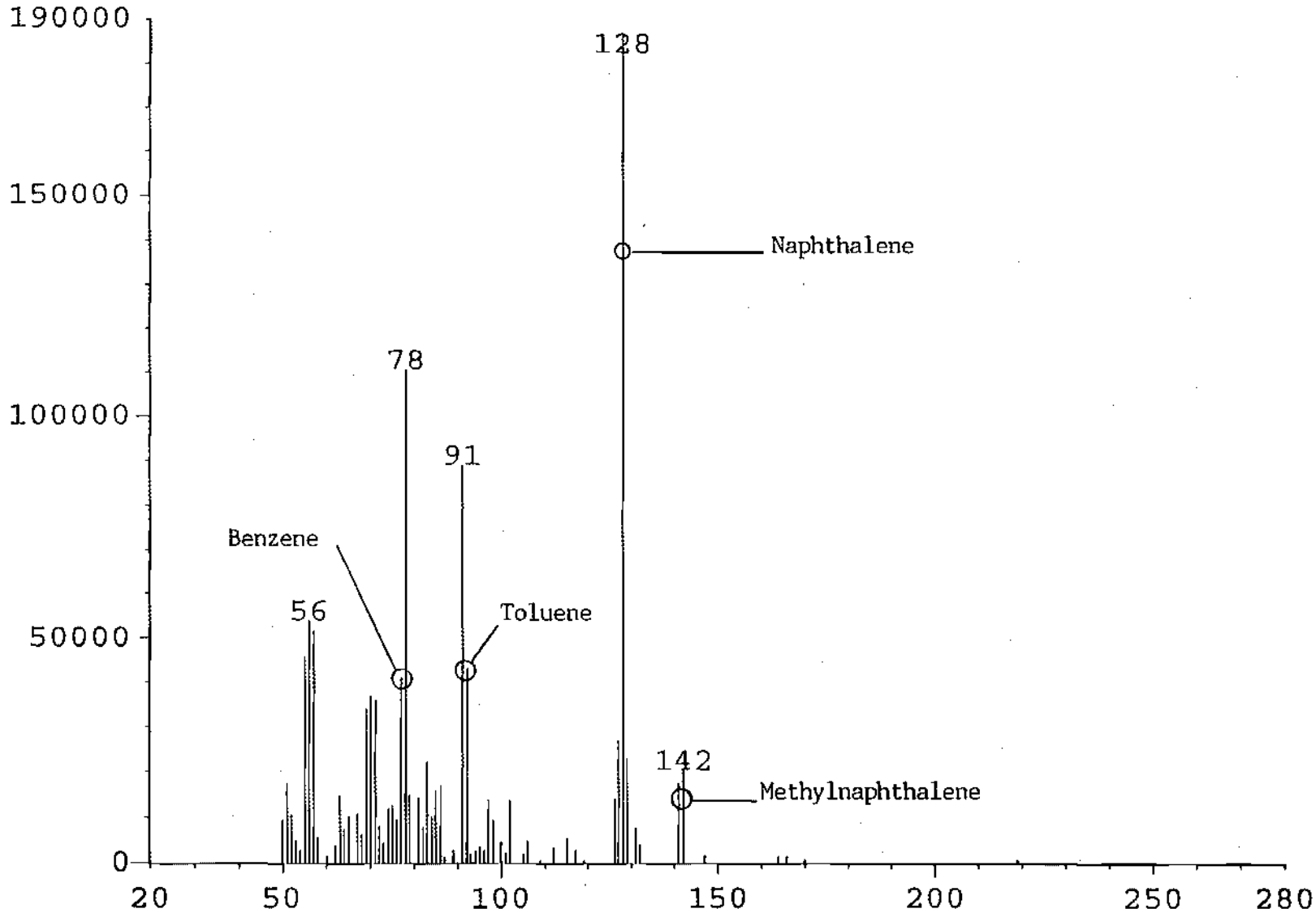

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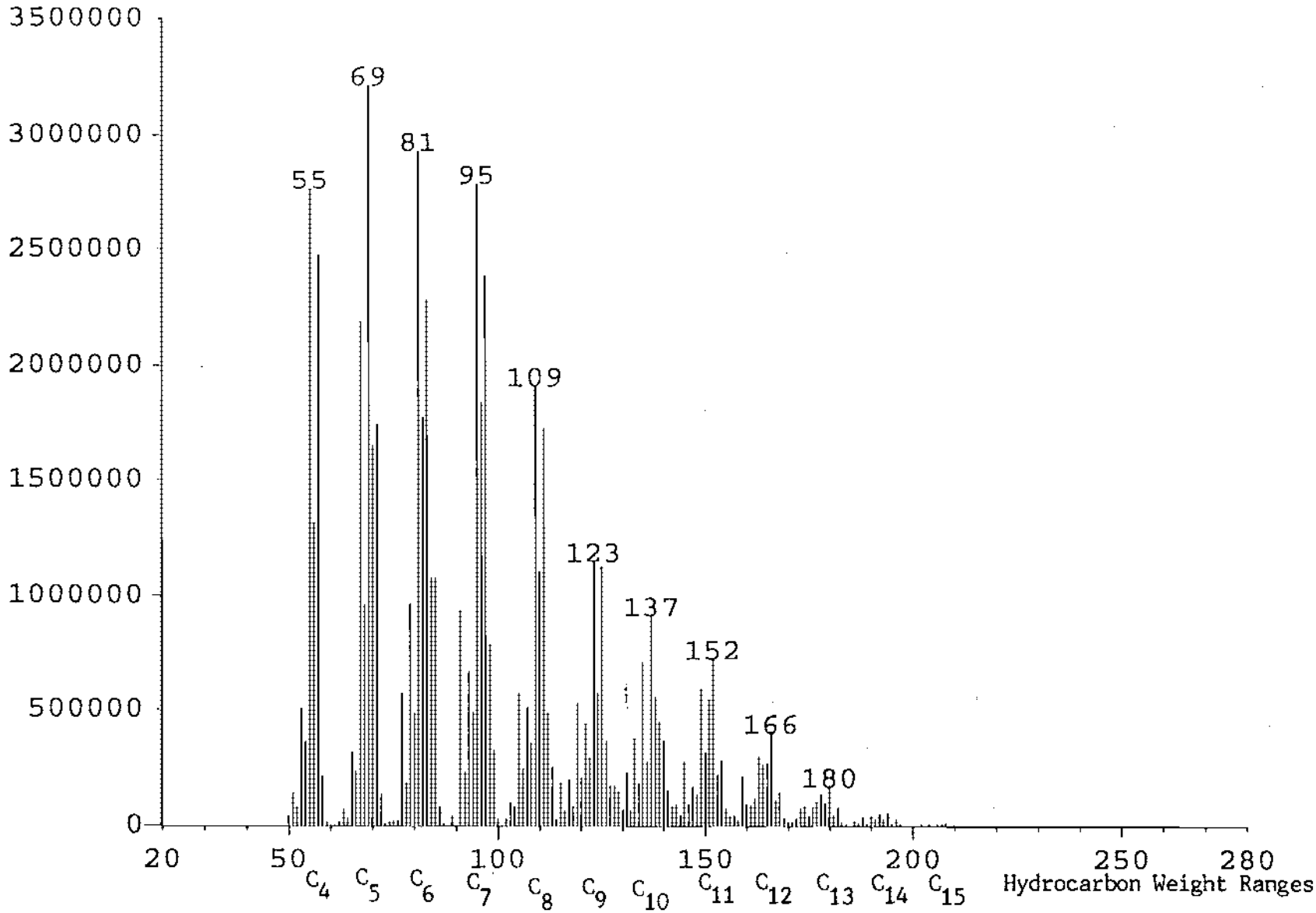

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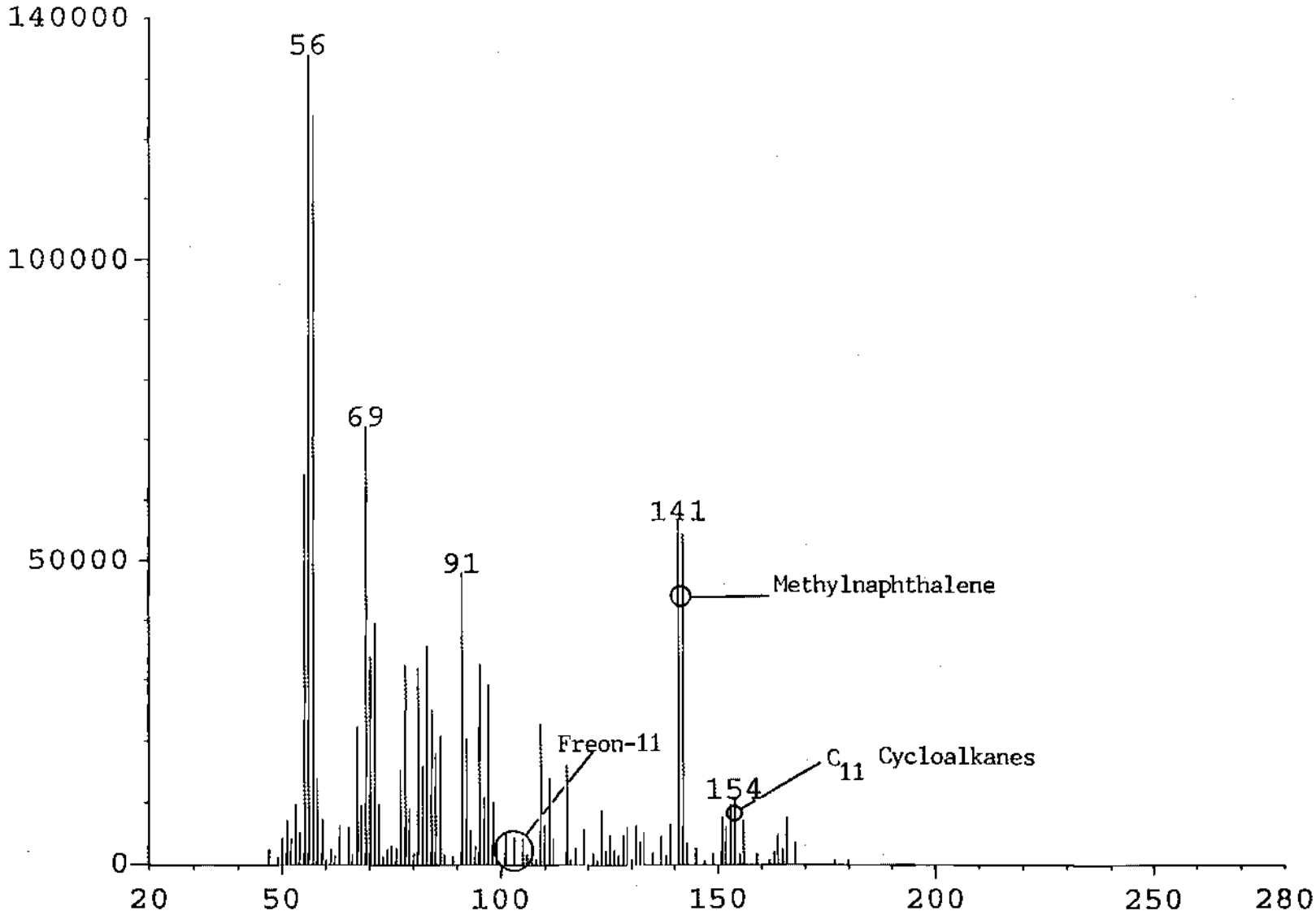

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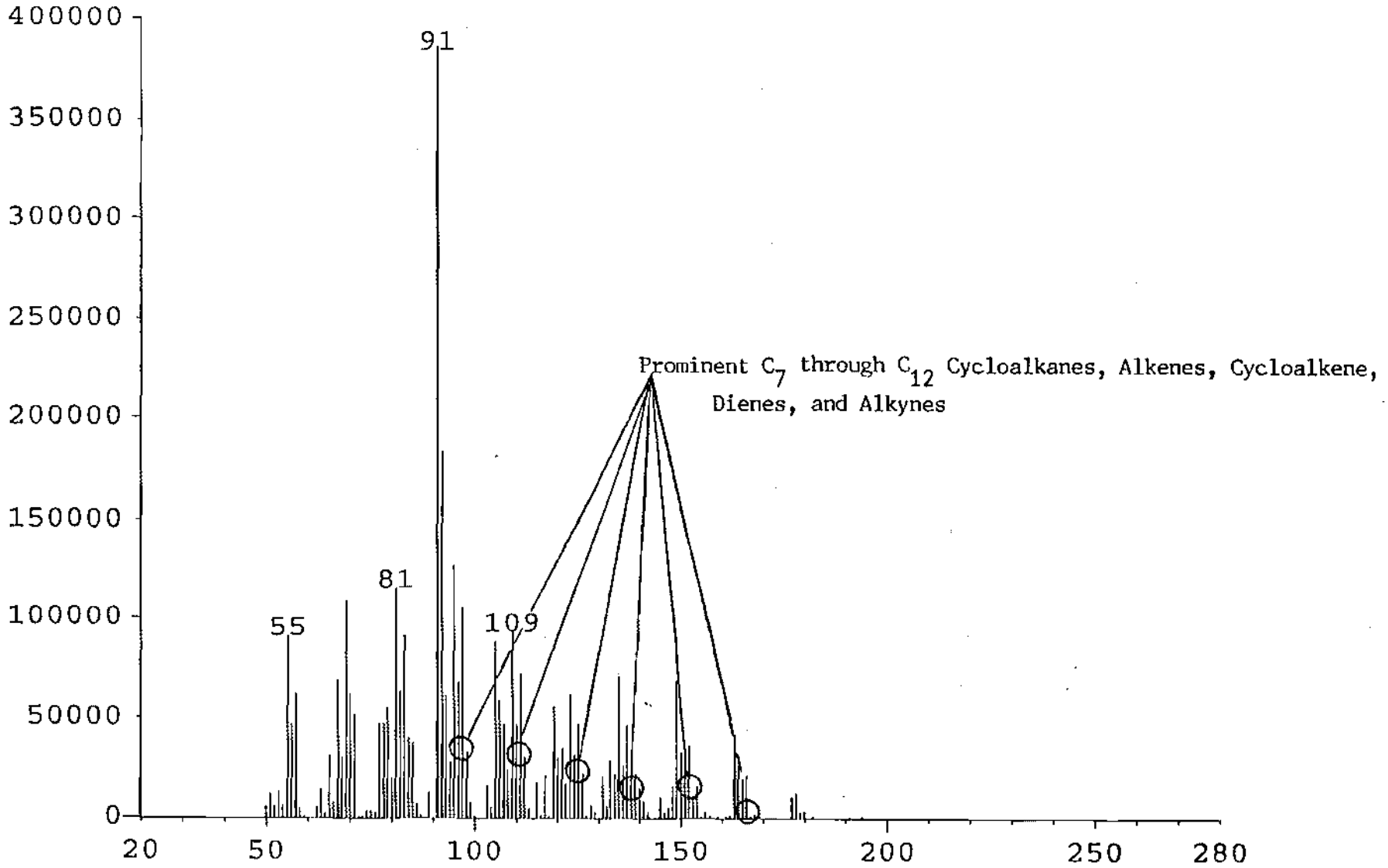

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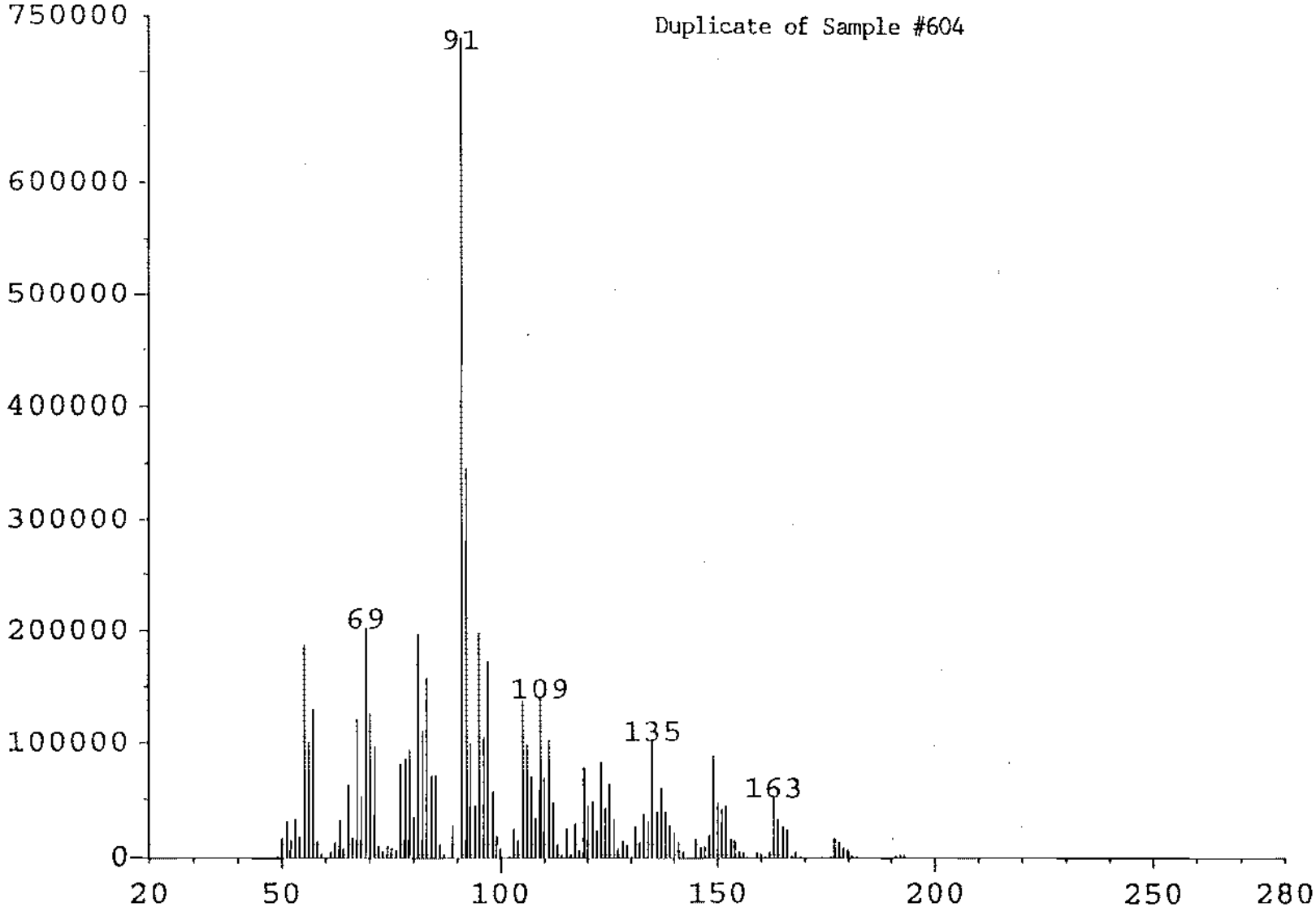

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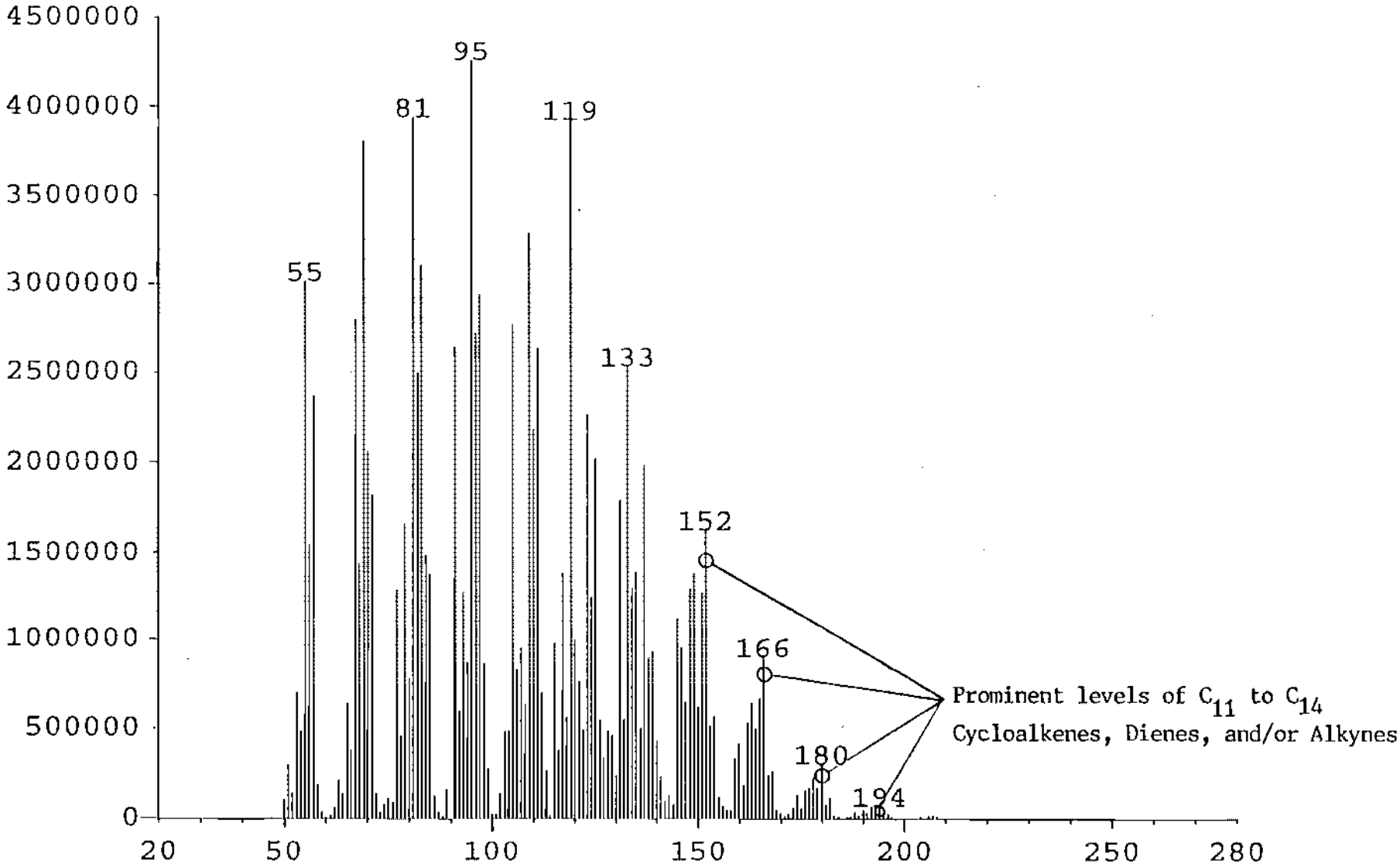
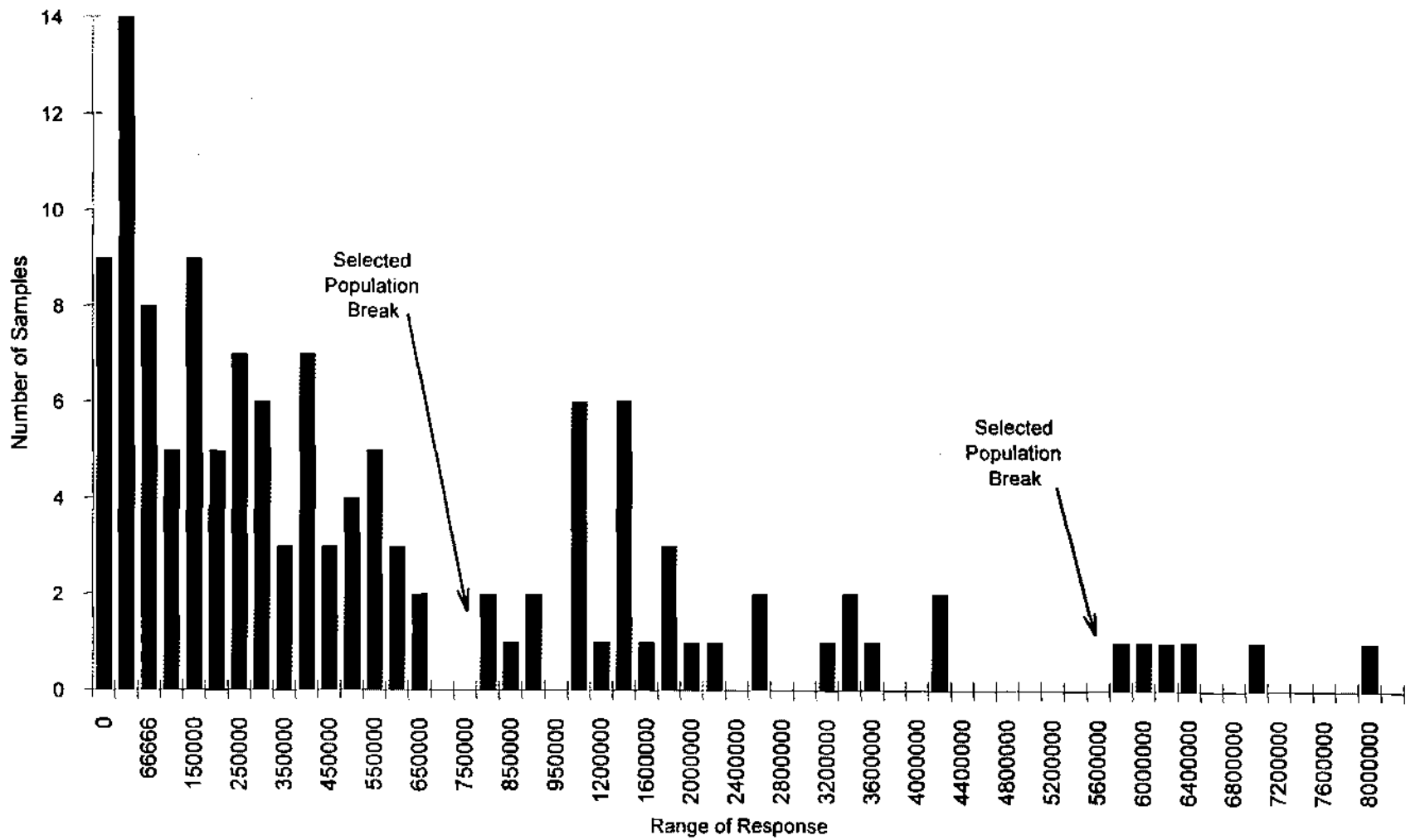
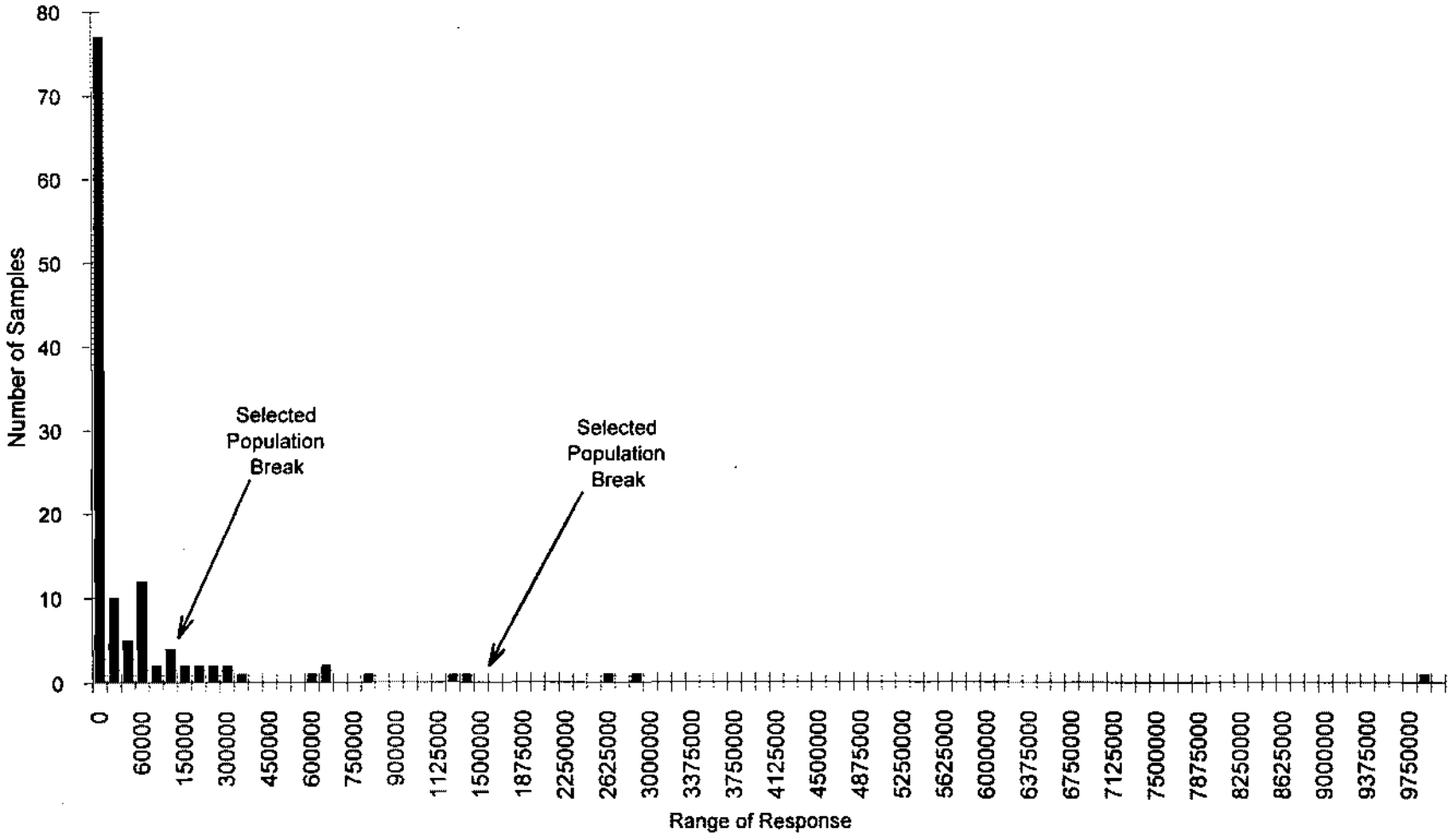


APPENDIX D
HISTOGRAMS OF DATA SETS

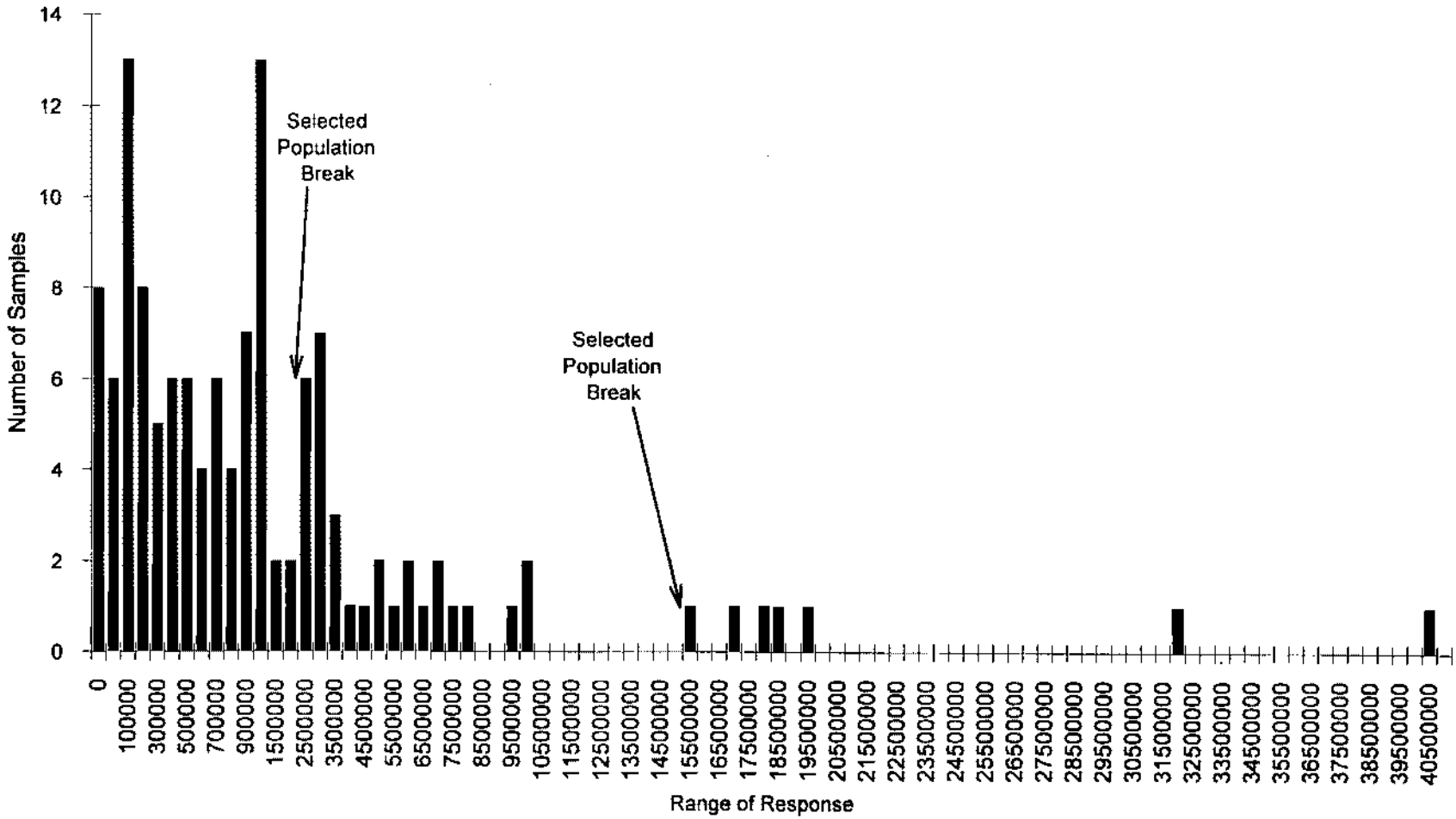
Histogram of Response to Total Aromatic Hydrocarbons



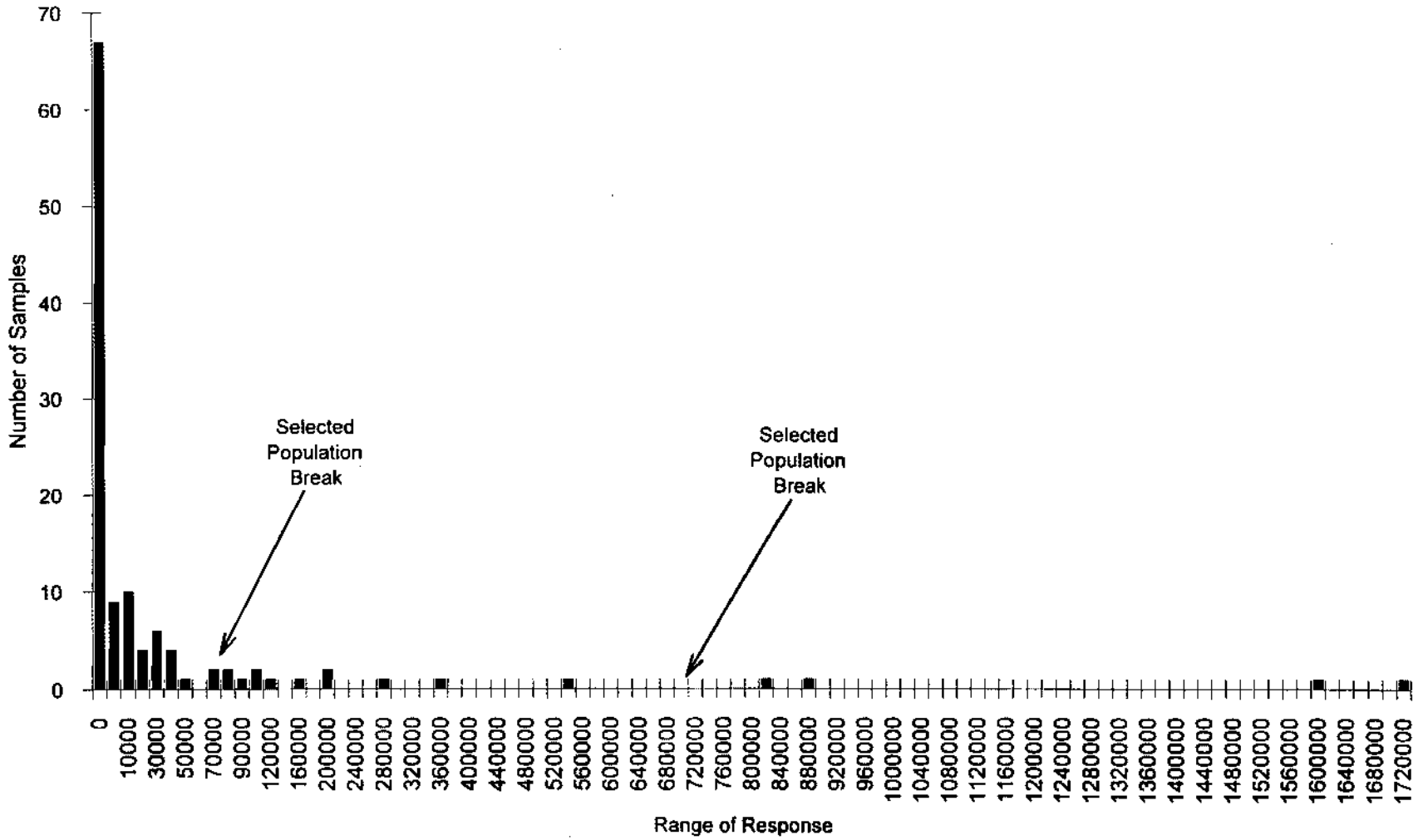
Histogram of Response to Total Semivolatile Hydrocarbons



Histogram of Response to Total C5 to C11 Petroleum Hydrocarbons



Histogram of Response to Total Halogenated Hydrocarbons



APPENDIX E
FIELD LOG SHEETS

SOIL GAS SURVEY (PETREX)

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 PG. 241 PROJECT NO.: 34896

LOCATION GRID ID	MOUND SAMPLE NUMBER	PETREX NUMBER	DATE / TIME PLACE	DATE / TIME RETRIEVE	FIDLER READING (CPM) CH1	FIDLER READING (CPM) CH2 x (1000)	COC NUMBER	COMMENTS
SDBKØ2		267	7/11/94 14:35	7/21/94 0908	ND	ND		Full bag#13
SDBKØ3		268	7/11/94 ~~15:00~~ 14:39	7/4/94 0911				10 inches bag#12
SDBKØ4		269	7/11/94 14:67	7/21/94 0926				Full bag#13
SDBKØ5		~~270~~ 273	7/11/94 ~~15:27~~ 1429	7/21/94 0931				12 inches bag#13
SDBKØ6		274	7/12/94 ~~0848~~ 0825	7/21/94 0934				10 inches bag#13
SDBKØ7		275	7/12/94 Ø854	7/21/94 0936				10" BAG # 13
SDBKØ8		276	7/12/94 Ø9ØØ	7/21/94 0939				14" BAG # 13
SDBKØ9		324	7/13/94 141Ø	7/21/94 0946				Bag#20, Full
SDBK1Ø		321	7/13/94 1417	8/1/94 11Ø5				underwater.
SDBK11		325	7/13/94 1419	7/21/94 0949				18", bag#20
SDBK12		326	7/13/94 1424	7/21/94 0951				10", bag#20
SDBK13		327	7/13/94 1441	7/21/94 0954				Full, bag#20
SDBK14		33Ø	7/13/94 15Ø1	7/21/94 0957				Bag#20, 15"
SDBK4		269	7/11/94 15ØØ	7/18/94 1259				Timer #1
SDBK4		269	7/11/94 15Ø2	7/21/94 Ø928	↓	↓		Timer #2
			JPH 8/2/94					
7AØ1		612	8/4/94 Ø825	8/17/94 Ø848	ND	ND		Full; BAG # 23
7AØ2		613	8/4/94 Ø834	8/17/94 Ø844	ND	ND		Full; BAG #23
7AØ3		614	8/4/94 Ø838	8/17/94 Ø852	ND	ND		Full; BAG #23
7AØ4		615	8/4/94 Ø846	8/17/94 Ø852	ND	ND		Full; BAG #23

SOIL GAS SURVEY (PETREX)

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 PG. 242 PROJECT NO.: 34896

LOCATION GRID ID	MOUND SAMPLE NUMBER	PETREX NUMBER	DATE / TIME		FIDLER READING (CPM)		COC NUMBER	COMMENTS
			PLACE	RETRIEVE	CH1	CH2 x (1000)		
7AØ5								
7AØ6								
7AØ7								
7AØ8								
7AØ9								
7A1Ø								
7A11								
7A12								
7A13								
7A14								
7A15								
7A16								
7A17			8/8/94					
7A18								
7A19								
7A2Ø								
7A21								
			8/22/94					

SOIL GAS SURVEY (PETREX)

SOIL GAS SURVEY (PETREX)

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 PG. 243 PROJECT NO.: 34896

LOCATION GRID ID	MOUND SAMPLE NUMBER	PETREX NUMBER	DATE / TIME PLACE	DATE / TIME RETRIEVE	FIDLER READING (CPM) CH1	FIDLER READING (CPM) CH2 x (1000)	COC NUMBER	COMMENTS
7BØ1		611	8/3/94 1547	8/17/94 Ø856	ND	ND		Bag 25 ; 12"
7BØ2		610	8/3/94 1531	8/17/94 Ø854	ND	ND		Bag 25 ; 8"
7BØ3		609	8/3/94 1526	8/17/94 Ø859	ND	ND		Bag 25 ; 12"
7BØ4		608	8/3/94 1524	8/17/94 Ø859	ND	ND		Bag 25 ; Full
7BØ5								
7BØ6								
7BØ7								
7BØ8								
7BØ9								
7B1Ø								
7B11								
7B12								
7B13								
7B14								
7B15				JPH 8/7/94				
7B16								
7B17								
7B18								
7B19								
7B2Ø								
7B21								

SOIL GAS SURVEY (PETREX)

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 PG. 244 PROJECT NO.: 34896

LOCATION GRID ID	MOUND SAMPLE NUMBER	PETREX NUMBER	DATE / TIME PLACE	DATE / TIME RETRIEVE	FIDLER READING (CPM) CH1	FIDLER READING (CPM) CH2 x (1000)	COC NUMBER	COMMENTS
			JPH 8/22/94					
7CØ1		604	8/3/94 1438	8/17/94 Ø9Ø3	ND	ND		Bag 11 ; 8"
7CØ2		605	8/3/94 1503	8/17/94 Ø9Ø8	ND	ND		Bag 11 ; 8"
7CØ3		606	8/3/94 1507	8/17/94 Ø9Ø6	ND	ND		Bag 11 ; Full
7CØ4		607	8/3/94 1517	8/17/94 Ø9Ø2	ND	ND		Bag 25 ; Full
7CØ5								
7CØ6								
7CØ7								
7CØ8								
7CØ9								
7C1Ø								
7C11				JPH 8/7/94				
7C12								
7C13								
7C14								
7C15								
7C16								
7C17								

SOIL GAS SURVEY (PETREX)

SOIL GAS SURVEY (PETREX)

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 PG. 245 PROJECT NO.: 34896

LOCATION GRID ID	MOUND SAMPLE NUMBER	PETREX NUMBER	DATE / TIME PLACE	DATE / TIME RETRIEVE	FIDLER READING (CPM) CH1	FIDLER READING (CPM) CH2 x (1000)	COC NUMBER	COMMENTS
7C18								
7C19				JPH 8/7/94				
7C2Ø								
7C21								
				JPH 8/22/94				
7DØ1		603	8/3/94 1428	8/17/94 Ø925	ND	ND		Bag 11 ; 12"
7DØ2		479	7/26/94 1336	8/11/94 ~~ØØØ8~~ Ø916 JPH 8/15/94	ND	ND		Bag 8 ; Full
7DØ3		602	8/3/94 1418	8/17/94 Ø91Ø	ND	ND		Bag 11 ; Full
7DØ4		601	8/3/94 1414	8/17/94 Ø91Ø	ND	ND		Bag 11 ; Full
7DØ5								
7DØ6								
7DØ7								
7DØ8				JPH				
7DØ9								
7D1Ø				8/7/94				
7D11								
7D12								
7D13								

SOIL GAS SURVEY (PETREX)

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 PG. 246 PROJECT NO.: 34896

LOCATION GRID ID	MOUND SAMPLE NUMBER	PETREX NUMBER	DATE / TIME PLACE	DATE / TIME RETRIEVE	FIDLER READING (CPM) CH1	FIDLER READING (CPM) CH2 x (1000)	COC NUMBER	COMMENTS
7D14								
7D15								
7D16								
7D17								
7D18				JPH 8/7/94				
7D19								
7D2Ø								
7D21								
7D02		409/Timer	7/26/94 1341	8/2/94 11ØØ	NA	NA		Bag 2114E ; Full
7D02		479/Timer	7/26/94 1345	8/11/94 Ø9Ø8	NA	NA		Bag 2114E ; Full
			JPH 8/22/94					
7EØ1		597	8/3/94 1054	8/17/94 0939	ND	ND		Bag 11 ; 14"
7EØ2		598	8/3/94 1101	8/17/94 Ø916	ND	ND		Bag 11 ; Full
7EØ3		599	8/3/94 1358	8/17/94 Ø912	ND	ND		Bag 11 ; Full
7EØ4		600	8/3/94 1407	Not able to Retrieve	ND	ND		Bag 11 ; Full
7EØ5				-lost in rock 8/17/94				
7EØ6				JPH 8/5/94				
7EØ7								
7EØ8								
7EØ9								

7EØ9

SOIL GAS SURVEY (PETREX)

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 PG. 247 PROJECT NO.: 34896

LOCATION GRID ID	MOUND SAMPLE NUMBER	PETREX NUMBER	DATE / TIME		FIDLER READING (CPM)		COC NUMBER	COMMENTS
			PLACE	RETRIEVE	CH1	CH2 x (1000)		
7EØ1Ø								
7E11								
7E12								
7E13								
7E14								
7E15				JPH 8/7/94				
7E16								
7E17								
7E18								
7E19								
7E2Ø								
7E21								
7FØ1								
7FØ2				JPH 8/7/94				
7FØ3								
7FØ4								
7FØ5								

SOIL GAS SURVEY (PETREX)

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 PG. 248 PROJECT NO.: 34896

LOCATION GRID ID	MOUND SAMPLE NUMBER	PETREX NUMBER	DATE / TIME PLACE	DATE / TIME RETRIEVE	FIDLER READING (CPM) CH1	FIDLER READING (CPM) CH2 x (1000)	COC NUMBER	COMMENTS
7FØ6								Building here
7FØ7		497	7/27/94 Ø952	8/11/94 1ØØ	ND	ND		Bag 9; Full
7FØ8		500	7/27/94 1012	8/11/94 ~~50~~ 1ØØ5	ND	ND		Bag 21; Full
7FØ9				8/15/94				
7F1Ø								
7F11								
7F12								
7F13								
7F14								
7F15								
7F16								
7F17								
7F18				JPH 8/22/94				
7F19								
7F2Ø								
7F21								
7GØ1								

7GØ1

SOIL GAS SURVEY (PETREX)

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 PG. 249 PROJECT NO.: 34896

LOCATION GRID ID	MOUND SAMPLE NUMBER	PETREX NUMBER	DATE / TIME PLACE	DATE / TIME RETRIEVE	FIDLER READING (CPM) CH1	FIDLER READING (CPM) CH2 x (1000)	COC NUMBER	COMMENTS
7GØ2								
7GØ3				JPH 8/22/94				
7GØ4								
7GØ5								Building located
7GØ6								here
7GØ7		498	7/27/94 1003	8/11/94 1017	ND	ND		Bag 21; Full
7GØ8		501	7/27/94 1016	8/11/94 1000	ND	ND		Bag 21; Full
7GØ9		503	7/27/94 1343	8/11/94 0950	ND	ND		Bag 21; 15"
7G1Ø		480	7/26/94 1357	8/11/94 0932	ND	ND		Bag 9; 14"
7G11					ND	ND		Bldg here
7G12		513	7/27/94 1529	8/11/94 1055	ND	ND		Bag 21; 7"
7G13		512	7/27/94 1523	8/11/94 1105	ND	ND		Bag 21; Full
7G14		511	7/27/94 1518	8/11/94 1055	ND	ND		Bag 21; Full
7G15		510	7/27/94 1513	8/11/94 1054	ND	ND		Bag 21; Full
7G16								
7G17								
7G18			JPH 8/22/94					
7G19								
7G2Ø								
7G21								
7G1Ø		480	7/26/94 1404	8/2/94 1165	ND	ND		Bag 21 Timer! 14"

SOIL GAS SURVEY (PETREX)

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 Pg. 25Ø PROJECT NO.: 34896

LOCATION GRID ID	MOUND SAMPLE NUMBER	PETREX NUMBER	DATE / TIME PLACE	DATE / TIME RETRIEVE	FIDLER READING (CPM) CH1	FIDLER READING (CPM) CH2 x (1000)	COC NUMBER	COMMENTS
7G10		480	7/26/94 1408	8/11/94 Ø93Ø	NA	NA		timer 2 Bag 21 14", 14"
7HØ1								
7HØ2				QPH 8/22/94				
7HØ3								
7HØ4								
7HØ5		573	8/2/94 1331	8/15/94 1343	ND	ND		Bag 27 Full
7HØ6		572	8/2/94 1343	8/15/94 1340	ND	ND		Bag 27 Full
7HØ7		499	7/27/94 1005	8/11/94 1Ø2Ø	ND	ND		Bag 21; 12"
7HØ8		502	7/27/94 1031	8/11/94 1Ø28	ND	ND		Bag 21; 12"
7HØ9		504	7/27/94 1402	8/11/94 1Ø3Ø	ND	ND		Bag 21; Full
7H1Ø		616	8/4/94 Ø911	8/15/94 Ø955	ND	ND		Bag#23; Full
7H11		505	7/27/94 1412	8/11/94 Ø952	ND	ND		Bag 21; Full
7H12		506	7/27/94 1419	8/11/94 1Ø37	ND	ND		Bag 21; Full
7H13		507	7/27/94 1429	8/11/94 1Ø4Ø	ND	ND		Bag 21; Full
7H14		508	7/27/94 1447	8/11/94 1Ø43	ND	ND		Bag 21; 8"
7H15		509	7/27/94 1501	8/11/94 1Ø5Ø	ND	ND		Bag 21; Full
7H16								
7H17				QPH 8/22/94				
7H18								

SOIL GAS SURVEY (PETREX)

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 Pg. 26 PROJECT NO.: 34896

LOCATION GRID ID	MOUND SAMPLE NUMBER	PETREX NUMBER	DATE / TIME PLACE	DATE / TIME RETRIEVE	FIDLER READING (CPM) CH1	FIDLER READING (CPM) CH2 x (1000)	COC NUMBER	COMMENTS
7H19								
7H2Ø								
7H21								
				JPH 8/22/94				
7IØ1								
7IØ2								
7IØ3								
7IØ4								
7IØ5		524	8/2/94 1357	8/15/94 1355 ~~1345~~	NN	NN		Bag 23 ; 13"
7IØ6		525	8/2/94 1414	8/15/94 1358 ~~1348~~	NN	NN		Bag 23 ; 13"
7IØ7		526	8/2/94 1432	8/15/94 1347	NN	NN		Bag 23 ; 14"
7IØ8		527	8/2/94 1445	8/15/94 1354	NN	NN		Bag 23 ; 14"
7IØ9		528	8/2/94 1515	8/15/94 1357	NN	NN		Bag 23 ; 14"
7I1Ø		538	8/1/94 1115	8/15/94 ~~0944~~	NN	NN		WIRES lost in Mud. Bag 22 ; Full
7I11		537	8/1/94 1107	8/15/94 Ø95Ø	NN	NN		Bag 22 ; Full
7I12		531	7/28/94 1543	8/11/94 11Ø8	NN	NN		Bag 21 ; Full
7I13		514	7/27/94 1524	8/11/94 11Ø9	NN	NN		Bag 21 ; Full
7I14		515	7/27/94 1529	8/11/94 1113	NN	NN		Bag 21 ; 14"

SOIL GAS SURVEY (PETREX)

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 PG. 252 PROJECT NO.: 34896

LOCATION GRID ID	MOUND SAMPLE NUMBER	PETREX NUMBER	DATE / TIME PLACE	DATE / TIME RETRIEVE	FIDLER READING (CPM) CH1	FIDLER READING (CPM) CH2 x (1000)	COC NUMBER	COMMENTS
7I15		524	7/28/94 1502	8/11/94 1115	ND	ND		Bag 21; Full
7I16								
7I17								
7I18								
7I19								
7I20								
7I21								
7J01								
7J02								
7J03								
7J04								
7J05		545	8/1/94 1400	8/15/94 0917	ND	ND		Bag 27; Full
7J06		546	8/1/94 1412	8/15/94 0923	ND	ND		Bag 27; 14"
7J07		547	8/1/94 1425	8/15/94 1406	ND	ND		Bag 27; 14"
7J08		548	8/1/94 1448	8/15/94 1402	ND	ND		Bag 27; 16"
7J09	552	~~549~~	~~8/1/94 1502~~ 8/1/94 1603	8/15/94 1400 fr 8/1/94	~~ND~~ ND	~~ND~~ ND fr 8/1/94		~~Bag 27; 14"~~ Bag 27; 14" fr 8/1/94
7J10		~~535~~ 535	~~8/1/94 1058~~ 8/1/94 1058	8/15/94 0929 fr 8/1/94	~~ND~~ ND	~~ND~~ ND fr 8/1/94		~~Bag 22; Full~~ Bag 22; Full fr 8/1/94

GPH 8/22/94

SOIL GAS SURVEY (PETREX)

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 Pg. 253 PROJECT NO.: 34896

LOCATION GRID ID	MOUND SAMPLE NUMBER	PETREX NUMBER	DATE / TIME		FIDLER READING (CPM)		COC NUMBER	COMMENTS
			PLACE	RETRIEVE	CH1	CH2 x (1000)		
7J11		536	8/1/94 1104	8/15/94 Ø932	ND	ND		Bag 22; Full
7J12		530	7/28/94 1541	8/11/94 1129	ND	ND		Bag 21; Full
7J13		528	7/28/94 1529	8/11/94 1121	ND	ND		Bag 21; Full
7J14		526	7/28/94 1516	8/11/94 112Ø	ND	ND		Bag 21; 12"
7J15		523	7/28/94 1459	8/11/94 1117	ND	ND		Bag 21; Full
7J16								
7J17								
7J18								
7J19								
7J2Ø								
7J21								
				PH 8/22/94				
7KØ1								
7KØ2								
7KØ3								
7KØ4								
7KØ5		544	8/1/94 1354	8/15/94 Ø915	ND	ND		Bag ~~22~~ 21; 12"
7KØ6		543	8/1/94 1350	8/15/94 Ø914	ND	ND		Bag 22; Full

SOIL GAS SURVEY (PETREX)

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 PG. 254 PROJECT NO.: 34896

LOCATION GRID ID	MOUND SAMPLE NUMBER	PETREX NUMBER	DATE / TIME PLACE	DATE / TIME RETRIEVE	FIDLER READING (CPM) CH1	FIDLER READING (CPM) CH2 x (1000)	COC NUMBER	COMMENTS
7KØ7		542	8/1/94 1347	8/15/94 Ø913	ND	ND		Bag 22; Full
7KØ8		554	8/2/94 0815	8/15/94 Ø827	ND	ND		Bag 22; Full
7KØ9		549	8/1/94 1502	8/15/94 Ø926	ND	ND		Bag 27; 14"
7K1Ø		550	8/1/94 1525	8/15/94 14Ø8	ND	ND		Bag 27; 14"
7K11		551	8/1/94 1542	8/15/94 1412	ND	ND		Bag 27; Full
7K12		529	7/28/94 1537	8/11/94 1127	ND	ND		Bag 21; Full
7K13		527	7/28/94 1522	8/11/94 1125	ND	ND		Bag 21; Full
7K14		525	7/28/94 1509	8/11/94 1123	ND	ND		Bag 21; Full
7K15		522	7/28/94 ~~1509~~ 1457	8/11/94 1118 7-27-94	ND	ND		Bag 4; Full
7K16								
7K17								
7K18								
7K19								
7K2Ø								
7K21								
7LØ1								
7LØ2								

gpH 8/22/94

SOIL GAS SURVEY (PETREX)

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 PG. 255 PROJECT NO.: 34896

LOCATION GRID ID	MOUND SAMPLE NUMBER	PETREX NUMBER	DATE / TIME PLACE	DATE / TIME RETRIEVE	FIDLER READING (CPM) CH1	FIDLER READING (CPM) CH2 x (1000)	COC NUMBER	COMMENTS
7LØ3			JPH 8/22/94					
7LØ4								
7LØ5		480	7/27/94 0830	8/15/94 Ø833	ND	ND		Bag 8 ; 15"
7LØ6		481	7/27/94 0875	Not able to retrieve 8/15/94	ND	ND		Bag 8 ; Full } unable to pull there
7LØ7		482	7/27/94 0875	Not able to retrieve 8/15/94	ND	ND		Bag 9 ; 15" } unable to pull there
7LØ8		483	7/27/94 0855	8/15/94 Ø845	ND	ND		Bag 9 ; 16"
7LØ9		484	7/27/94 0806	8/15/94 Ø847	ND	ND		Bag 9 ; Full
7L1Ø		553	8/2/94 0810	8/15/94 Ø825	ND	ND		Bag 22 ; Full
7L11		521	7/28/94 1051	8/11/94 1149	ND	ND		Bag 21 ; Full
7L12		519	7/28/94 1032	8/11/94 115Ø	ND	ND		Bag 21 ; Full
7L13		520	7/28/94 1045	8/11/94 1134	ND	ND		Bag 21 ; 10"
7L14		539	8/1/94 1305	8/15/94 1415	ND	ND		Bag 22 ; 14"
7L15		540	8/1/94 1317	8/15/94 1419	ND	ND		Bag 22 ; Full
7L16								
7L17								
7L18								
7L19								
7L2Ø			JPH 8/22/94					
7L21								

SOIL GAS SURVEY (PETREX)

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 Pg. 256 PROJECT NO.: 34896

LOCATION GRID ID	MOUND SAMPLE NUMBER	PETREX NUMBER	DATE / TIME PLACE	DATE / TIME RETRIEVE	FIDLER READING (CPM) CH1	FIDLER READING (CPM) CH2 x (1000)	COC NUMBER	COMMENTS
7MØ1								
7MØ2								
7MØ3				OPH 8/22/94				
7MØ4								
7MØ5		485	7/27/94 0800	8/15/94 Ø839	ND	ND		Bag 9 ; Full
7MØ6		486	7/27/94 0805	8/15/94 Ø833	ND	ND		Bag 9 ; Full
7MØ7		487	7/27/94 0810	8/15/94 Ø837	ND	ND		Bag 9 ; Full
7MØ8		488	7/27/94 0816	8/15/94 Ø9ØØ	ND	ND		Bag 9 ; Full
7MØ9		489	7/27/94 0822	8/15/94 Ø8Ø9	ND	ND		Bag 9 ; Full
7MIØ		495	7/27/94 0916	8/15/94 Ø812	ND	ND		Bag 9 ; Full 15"
7M11		496	7/27/94 0919	8/15/94 Ø817	ND	ND		Bag 9 ; Full
7M12		516	7/28/94 1008	8/11/94 1139	ND	ND		Bag 21 ; Full
7M13		517	7/28/94 1015	8/11/94 1143	ND	ND		Bag 21 ; Full
7M14		518	7/28/94 1026	8/11/94 1145	ND	ND		Bag 21 ; Full
7M15		541	8/1/94 1329	8/15/94 1422	ND	ND		Bag 22 ; Full
7M16								
7M17								
7M18				OPH 8/22/94				
7M19								

SOIL GAS SURVEY (PETREX)

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 PG. 257 PROJECT NO.: 34896

LOCATION GRID ID	MOUND SAMPLE NUMBER	PETREX NUMBER	DATE / TIME		FIDLER READING (CPM)		COC NUMBER	COMMENTS
			PLACE	RETRIEVE	CH1	CH2 x (1000)		
7M2Ø								
7M21								
7NØ1								
7NØ2								
7NØ3								
7NØ4								
7NØ5			SPH	8/22/94				
7NØ6								
7NØ7								
7NØ8								
7NØ9								
7N1Ø								
7N11								
7N12								
7N13								
7N14								
7N15								

SOIL GAS SURVEY (PETREX)

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 pg 258 PROJECT NO.: 34896

LOCATION GRID ID	MOUND SAMPLE NUMBER	PETREX NUMBER	DATE / TIME PLACE	DATE / TIME RETRIEVE	FIDLER READING (CPM) CH1	FIDLER READING (CPM) CH2 x (1000)	COC NUMBER	COMMENTS
7N16		585	8/3/94 0847	8/17/94 1041	ND	ND		Bag 11; 586
7N17		579	8/2/94 1536	8/15/94 1003	ND	ND		Bag 11; Full
7N18		580	8/2/94 1540	8/15/94 1004	ND	ND		Bag 11; Full
7N19		581	8/2/94 1544	8/15/94 1005	ND	ND		Bag 22; Full
7N20		582	8/2/94 1550	8/15/94 1006	ND	ND		Bag 22; Full
7N21		583	8/2/94 1554	8/15/94 1007	ND	ND		Bag 11; Full
				JPH 8/22/94				
61A01		767	8/11/94 1448	9/1/94 0946	ND	ND		full; bag 29
61A02		766	8/11/94 1443	9/1/94 0944	ND	ND		full; bag 29
61A03		765	8/11/94 1436	9/1/94 0943	ND	ND		full; bag 29
61A04		764	8/11/94 1430	9/1/94 0940	ND	ND		full; bag 29
61A05		763	8/11/94 1424	9/1/94 0937	ND	ND		full; bag 29
60A03		765	8/6/94 1508		ND	ND		full; time #1
60A03		765	8/6/94 1513	8/24/94 1050	ND	ND		full; time #2
				JPH 8/22/94				
61B01		768	8/11/94 1519	9/1/94 0948	ND	ND		full; bag 29
61B02		769	8/11/94 1525	9/1/94 0950	ND	ND		full; bag 29

SOIL GAS SURVEY (PETREX)

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 pg 261 PROJECT NO.: 34896

LOCATION GRID ID	MOUND SAMPLE NUMBER	PETREX NUMBER	DATE / TIME PLACE	DATE / TIME RETRIEVE	FIDLER READING (CPM) CH1	FIDLER READING (CPM) CH2 x (1000)	COC NUMBER	COMMENTS
7Q16		481	7/26/94 1431	8/2/94 1055	ND	ND		Timer #1 Bag 2117; Full
7Q16		481	7/26/94 1470	8/11/94 0915	ND	ND		Timer #2 Bag 2117; Full
7P16		555	8/2/94 0900	8/15/94 1003	ND	ND		Bag #25; Full
7P17		556	8/2/94 0910	8/15/94 1005	ND	ND		Bag #25; Full
7P18		557	8/2/94 0916	8/15/94 1006	ND	ND		Bag #25; Full
7P19		558	8/2/94 0924	8/15/94 1008	ND	ND		Bag #25, Full
7P20		559	8/2/94 0928	8/15/94 1010	ND	ND		Bag #25, Full
7P21		560	8/2/94 0935	8/15/94 1012	ND	ND		Bag #25, Full
7Q21		561	8/2/94 0940	8/15/94 1010	ND	ND		Bag #25, ~~Full~~ 14"
7Q20		562	8/2/94 0946	8/15/94 1012	ND	ND		Bag #25, Full
7Q19		563	8/2/94 0952	8/15/94 1014	ND	ND		Bag #25, Full
7Q18		564	8/2/94 0958	8/15/94 1016	ND	ND		Bag #25, Full
7Q17		565	8/2/94 1004	8/15/94 1017	ND	ND		Bag #25, Full
7R17		566	8/2/94 1008	8/15/94 1020	ND	ND		Bag #27, Full
7R16		567	8/2/94 1016	8/15/94 1023	ND	ND		Bag #27, Full
7R18		568	8/2/94 1020	8/15/94 1021	ND	ND		Bag #27, Full
7R19		569	8/2/94 1026	8/15/94 1020	ND	ND		Bag #27, Full
7R20		570	8/2/94 1031	8/15/94 1017	ND	ND		Bag #27, Full
7R21		571	8/2/94 1040	8/15/94 1015	ND	ND		Bag #27, Full
7O16		584	8/3/94 0870	8/17/94 1007	ND	ND		Bag #22; Full
7O17		586	8/3/94 0857	8/17/94 1012	ND	ND		Bag #11; Full

SOIL GAS SURVEY (PETREX)

PROJECT NAME: EG&G MOUND OU5 OPERATIONAL AREA, PHASE 1 pg 262 PROJECT NO.: 34896

LOCATION GRID ID	MOUND SAMPLE NUMBER	PETREX NUMBER	DATE / TIME PLACE	DATE / TIME RETRIEVE	FIDLER READING (CPM) CH1	FIDLER READING (CPM) CH2 x (1000)	COC NUMBER	COMMENTS
7018		587	8/3/94 0900	8/17/94 1014	ND	ND		Bag 11 ; Full
7019		588	8/3/94 0907	8/17/94 1016	ND	ND		Bag 11 ; Full
7020		589	8/3/94 0912	8/17/94 1018	ND	ND		Bag 11 ; Full
7021		590	8/3/94 0917	8/17/94 1019	ND	ND		Bag 11 ; Full
7S16		596	8/3/94 1014	8/17/94 1032	ND	ND		Bag 11 ; Full
7S17		595	8/3/94 1000	8/17/94 1036	ND	ND		Bag 11 ; Full
7S18		594	8/3/94 0953	8/17/94 1027	ND	ND		Bag 11 ; Full
7S19		593	8/3/94 0943	8/17/94 1025	ND	ND		Bag 11 ; Full
7S20		592	8/3/94 0935	8/17/94 1023	ND	ND		Bag 11 ; Full
7S21		591	8/3/94 0928	8/17/94 1021	ND	ND		Bag 11 ; Full

JPH 8/22/94

APPENDIX F
SAMPLE SUBMITTAL & CHAIN OF CUSTODY FORMS

NERI

Sample Submittal Form

Project Number: 2114-5E

Project Manager: PCB

Date Samples Received : 8/18/94

Date(s) Samples Analyzed : 10/24 - 10/25/94

Number of Tubes Submitted: 133

Number of Calibration Samples : 13

List: 489/1489, 496/1496, 504/1504, 516/1516, 526/1526, 529/1529, 575/1575, 556/1556, 562/1562, 581/1581, 588/1588, 596/1596, 611/1611

TRUE DUPS: 490/2490, 501/2501, 508/2508, 525/2525 527/2527 542/2542 549/2549, 557/2557, 572/2572, 582/2582, 595/2595, 604/2604, 612/2612

Number of Travel Blanks : 5

List: BAG 9+10 = #617 BAGS 11+12 = #618, BAGS 21+22 = #619 BAGS 25+26 = #620 + #621

Greatest Sample Number: 616

Total Number of Missing Samples: 4 + 6 SEQUENCE BREAK

List: #491, #492, #538, AND #600
+ #482 → #484 + #532 + #534.

Number of Other Samples Analyzed : 27 y's

Total Number of Samples Analyzed : 183

Information Received (Maps, Notes, Etc.) : MAP + COC TO PCB

Sample Preparation and Analysis : PUCLEO FROM TUBE #519

NERI, LLC.
605 Parfet St. Suite 100
Lakewood, CO. 80215
(303) 238-0090

SAM_SUBM.XLS

PETREX ENVIRONMENTAL SURVEY
Chain of Custody Document

Job Number 2114C (Please refer to this job number with all correspondence and shipments)

FIELD DATA:

- Facility
- Location Mound Plant - Miamisburg, Ohio Area 7
- Field Manager John Davis Joletta Humpert • Phone 429-2699

PYMS LAB DATA:

Instrument

Operator

Phone

Sample Nos.

GC/MS LAB DATA:

SAMPLE DATA:

- Number of Samples 128 samples + 3 timers ; Timers #2 for Area J ; Timer #1 for AREA 61
- Date Shipped to Field July-Aug 1994
- Date Received in Field —
- Condition as Recd. in Field Good
- Received By J. Humpert
- Date Shipped from Field 8/17/94

Date Received from Field 8/18/94

Conditions as Recd. in Lab Good

Number Received 134

Received By [illegible]

SAMPLE TRANSFER DATA:

Relinquished By:	Relinquished To:	Date:	Time:	Reason:
1. Joletta Humpert	NERI			
2. [illegible]				
3.		8/18/94		Lab
4.				
5.				
6.				

* Notes:

Unable to retrieve Area 7 L6 and L7 (#491 and #492, respectively).
Unable to retrieve wires at I1Ø (#538) due to breakage and cave-in.
Unable to retrieve E4/#600 - tube lost below slab of concrete

Northeast Research Institute LLC

605 Parfet Street • Suite 100
Lakewood, Colorado 80215
303-238-0090 • 800-845-5137
Fax 303-238-2522

April 7, 1995

Mr. Thomas Tank
Science Applications International Corporation
4031 Colonel Glenn Highway
Suite 300
Beavercreek, Ohio 45431-1600

Tel: (513) 429-2699
Fax: (513) 429-9557

Dear Mr. Tank:

This letter summarizes the Thermal Desorption-Gas Chromatography/Mass Spectrometry (TD-GC/MS) results for samples 547 (grid coordinate J7), 577 (grid coordinate I8), 578 (grid coordinate I9), 589 (grid coordinate O20), 605 (grid coordinate C2), and 616 (grid coordinate H10). These samples were all from Area of Concern-7/Operable Unit-5, U. S. Department of Energy Mound Facility located in Miamisburg, Ohio.

Three of the six samplers (577, 578, 616) were submitted for TD-GC/MS analysis in order to determine if halogenated hydrocarbons were present, since petroleum hydrocarbons created interference with the halogenateds. Sampler 547 was submitted for C_5-C_{11} petroleum hydrocarbon verification. Sampler 589 was submitted for aromatic and semi-volatile hydrocarbons verification. Sampler 605 was submitted to identify the presence of a C_{14} polycyclic hydrocarbon. The TD-GC/MS results are presented in tabular format in the enclosed table.

The relative response values reported in the enclosed table are in area units, not ion counts, as was for Thermal Desorption/Mass Spectrometry analysis (TD-MS). Since the relative response values for TD/MS and TD-GC/MS analyses are in different units, results between the two analyses can not be compared directly.

Tetrachloroethene (PCE) was not confirmed on any of the samplers submitted for TD-GC/MS analysis. A variety of aromatic hydrocarbons (C_6-C_{10}) were confirmed on samplers 547, 578, 589, 605, and 616. Non-aromatic hydrocarbons, consisting primarily of alkanes and cycloalkanes, were confirmed on samplers 547, 577, 578, 605, and 616. Naphthalenics were confirmed on samplers 577 and 589.

It has been a pleasure to assist with this project. Please call when we can be of further service.

Respectfully submitted,

NORTHEAST RESEARCH INSTITUTE LLC

Jane Matheney-Rood

Jane Matheney-Rood
Project Manager

encl.

L2114JR1/04.07.95

TD-GC/MS Results
Area of Concern-7 / Operable Unit-5
DOE Mound Facility - Miamisburg, Ohio

SAMPLE #2114-5-547

Compound	Relative Response
Benzene	16814
Toluene	52005
3-Ethylhexane	47397
Ethylcyclohexane	12105
Ethylbenzene	19643
Xylene	39219

SAMPLE #2114-5-577

Compound	Relative Response
4-Methyloctane	38245
Decahydronaphthalene	29911
Decahydro-2-Methylnaphthalene	23654

SAMPLE #2114-5-578

Compound	Relative Response
Benzene	20845
Toluene	23914
Heptane	21962
4-Ethyl-2-Methylhexane	32966
4-Methyloctane	155583
3-Ethylheptane	104823
1,4-Dimethylbenzene	86462
3-Ethyl-2-Methylheptane	163893
3-Ethyl-5-Methylheptane	121541
1,1,2-Trimethyl-3-(2-Methylpropyl)Cyclopropane	77239
1,4-Diethylbenzene	67632
3,6-Dimethyldecane	296990
1-Ethyl-2,3-Dimethylbenzene	152241
7-Pentyl-bicyclo[4.1.0]heptane	146143

TD-GC/MS Results
Area of Concern-7 / Operable Unit-5
DOE Mound Facility - Miamisburg, Ohio

SAMPLE #2114-5-589

Compound	Relative Response
1,4 Dimethylbenzene	23393
Xylene	27371
1-Ethyl-4-Methylbenzene	20694
1,2,3-Trimethylbenzene	71217
1-Ethyl-2-Methylbenzene	14224
1,3,5-Trimethylbenzene	37295
Cyclopropylbenzene	19626
1-Methyl-4-(1-Methylethyl)benzene	38383
1-Ethyl-3,5-Dimethylbenzene	76765
1,2,3,5-Tetramethylbenzene	116321
Naphthalene	1804969
Benzo(b)thiophene	52661
1-Methylnaphthalene	222191

SAMPLE #2114-5-605

Compound	Relative Response
Methylcyclopropane	2741405
Toluene	18350
1,3-Dimethylbenzene	19637

SAMPLE #2114-5-616

Compound	Relative Response
Benzene	12547
Toluene	20725
1,3-Dimethylbenzene	33024
Xylene	14155
Decane	64293
1-Pentyl-2-Propylcyclopropane	45533
1,3-Diethylbenzene	76651
(Z)-Cyclododecene	56412

*Terpene Compound

GCMS2114/

APPENDIX E
DATA QUALITY ASSESSMENT

APPENDIX E

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ACRONYMS

ASTM	American Society for Testing and Materials
CLP	Contract Laboratory Program
CLP SOW	Contract Laboratory Program Statement of Work
CRDL	Contract Required Detection Limit
CRQL	Contract Required Quantitation Limit
CC	cross check
DER	Duplicate Erro Ratio
DOE	Department of Energy
DQA	Data Quality Assessment
DQO	Data Quality Objective
EPA	U.S. Environmental Protection Agency
GC/MS	Gas Chromatography/Mass Spectrometry
GFPC	Gas Flow Proportional Counting
GFAA	Graphite Furnace Atomic Absorption
HPLC	High Performance Liquid Chromatography
ICAP	Inductively Coupled Argon Plasma
ICS	interference check sample
IS	internal standard
MS	matrix spike
MSD	matrix spike duplicate
OEPA	Ohio Environmental Protection Agency
OU5	Operable Unit 5
OU9	Operable Unit 9
PE	performance evaluation
PCB	polychlorinated biphenyl
QAPjP	Quality Assurance Project Plan
QC	quality control
RPD	relative percent difference
RSI	Regional Soils Investigations
SVOC	semivolatile organic compound
VOC	volatile organic compound

E.1.0. INTRODUCTION

Chemical data are fundamental to an environmental investigation. Inherent in the chemical data are uncertainties arising from the natural variability in the environment and measurement error. Data quality objectives (DQOs) are statements specifying the analytical and statistical goals of a study. DQOs assessed in this appendix were developed during project planning and are presented in the OU5 Quality Assurance Project Plan (QAPjP).

This data quality assessment (DQA) evaluates the validity and performance of the data collection program by determining if the data are sufficient, adequate, and usable for supporting project decisions. Specifically, this DQA assess the organic, inorganic, and radiological data produced from the analysis of environmental samples collected during the Non-Area of Concern (AOC), Area 7, and the New Property investigations. This DQA also evaluates the impact of all quality control (QC) measures on the overall data quality and removes all unusable values from the investigation data set.

All sampling and analysis was conducted using the QC requirements and quality assurance (QA) objectives outlined in the OU5 and OU9 QAPjPs. A summary of the environmental and field QC samples collected and analyzed during the OU5 investigations are presented in Table E.1-1 on page E-14.

Note: Due to the large amount of tabulated data in this appendix, all tables are located in numerical order beginning on page E-14.

E.1.1. ENVIRONMENTAL ANALYTICAL LABORATORIES

CompuChem Environmental Corporation, Research Triangle Park, North Carolina, performed all chemical and radiological analyses. All environmental samples (i.e., soil, groundwater, and seep water) and field QC samples (i.e., trip blanks, ambient blanks, and equipment rinsates) were analyzed using U.S. Environmental Protection Agency (EPA) and Mound OU5 QAPjP methods from the following references:

- *Contract Laboratory Program Statement of Work Modifications, OU9 Site-Wide QAPjP, Appendix B*, Revision 3, June 1993;

- *Statement of Work for Organic Analysis, Multi-Media, Multi-Concentration*, EPA Contract Laboratory Program, March 1990 and revisions;

- *Statement of Work for Inorganic Analysis, Multi-Media, Multi-Concentration*, EPA Contract Laboratory Program, March 1990 and revisions;

- *Superfund Analytical Methods for Low Concentration Water for Organics Analysis*, EPA, June 1991;

- *Superfund Analytical Methods for Low Concentration Water for Inorganics Analysis*, EPA, June 1991;

- *Test Methods for Evaluating Solid Waste, Physical/Chemical Methods*, SW-846, Third Edition, September 1986, with 1989 revisions; and

- *Methods for Chemical Analysis of Water and Wastes*, EPA-600/4-79, March 1983.

E.1.2. ANALYTICAL DATA VALIDATION

All analytical data were validated as described in Section E.3.0 using the guidelines and specifications described in the following documents:

- *Laboratory Data Validation Functional Guidelines for Evaluating Organic Analyses*, EPA Contract Laboratory Program, February 1988;

- *National Functional Guidelines for Organic Data Review, Multi-Media, Multi-Concentration (OLM01.0) and Low Concentration Water (OLC01.0)*, EPA Contract Laboratory Program, Draft, December 1990, Revised June 1991;

- *Laboratory Data Validation Functional Guidelines for Evaluating Inorganic Analyses*, EPA Contract Laboratory Program, February 1988, Revised January 1993; and

- *Data Validation Guidelines for Non-Contract Laboratory Program (CLP) Analyses, OU9 Site-Wide QAPjP, Appendix H,* Revision 3, June 1993.

The validated results, including qualifiers, were incorporated into the OU5 database and used to evaluate data quality. The data quality summary, rejected data summary, accuracy and precision summary, and completeness calculations were prepared using 100 percent of all concentration records in the OU5 database. Bias and uncertainty were determined using 100 percent of the usable (i.e., unqualified results and estimated data points only) concentration values in the database. Table E.1-2 summarizes all qualified data points, as well as the associated potential bias and uncertainty.

E.1.3. QUALITY DATA MANAGEMENT

The OU5 database was populated with analytical results collected during the sampling required in the Mound OU5 investigations. All duplicate, QC blanks, and dilution results were resolved and the most appropriate data points were selected. The selection processes used are described below:

- All detected compounds in the trip blanks were evaluated and the reportable data points were adjusted using the following procedures: (1) All environmental samples were linked with the associated trip blanks, based on the applicable chain-of-custody form. (2) All potential contaminants detected in the associated trip blanks were evaluated. These blank concentrations were raised by a factor of 10 (for common laboratory contaminants) or 5 (for all other contaminants) based on the compound detected and applicable validation procedures. These adjusted values became the minimum concentration that would be considered representative in a given environmental sample. (3) All concentration values in the associated environmental samples were compared with the adjusted trip blank results. If the concentration did not exceed the minimum representative concentration (found in the trip blank), then the value was considered not detected at the concentration reported and was qualified as undetected.

- All detected compounds and elements in the equipment rinsate blanks were evaluated and the reportable data points were adjusted using the following procedures: (1) All environmental samples were linked with the associated equipment rinsate blanks, based on the applicable chain-of-custody form. (2) All potential contaminants detected in the

associated rinsate blanks were evaluated. These concentrations were raised by a factor of 10 (for common laboratory contaminants), 5 (for all other contaminants), or 3 (for radiochemical contaminants) based on the compound detected and appropriate validation procedures. These values became the minimum concentration that would be considered representative in a given environmental sample. (3) All concentration values in the associated environmental samples were compared with the adjusted equipment rinsate blank results. If the concentration did not exceed the minimum representative concentration (found in the equipment rinsate), the value was considered not detected at the concentration reported and was qualified as undetected.

- All data points qualified with "R" were marked to prevent incorporation into the usable data population.

- All laboratory duplicate values for sample identification and analytical method, and all values meeting the duplicate value criteria were evaluated using the following procedure (standard logic): (1) The higher concentration value was selected. (2) The detected value was selected. (3) The most sensitive contract-required quantitation or detection limit (CRQL or CRDL, respectively) was selected for duplicate nondetected values.

- All dilution results were evaluated for best value and CRQL/CRDL using the following procedure: (1) The diluted sample results were selected for all compounds, with the exception of volatile organic compounds (VOC) methylene chloride, acetone, 2-butanone, and toluene, and semi-volatile organic compounds (SVOC) phthalate esters. The concentration value reported in the nondiluted sample was selected for those compounds only. (2) The nondiluted value was selected to prevent potential false positive value incorporation into the usable data population for duplicate nondetected and detected values. (3) The most sensitive CRQL or CRDL was selected for duplicate nondetected values.

- All reanalyses results were evaluated for best value, based on QC results, and CRQL/CRDL using the standard logic procedure.

- All field duplicate/replicate analyses results were evaluated for best value and CRQL/CRDL using the following procedure: (1) Duplicate detected values were averaged if the calculated relative percent difference (RPD) was less than 20 (water) or 35 (soil) percent. The higher concentration value was selected if the reference RPD value was exceeded. (2) The detected value was selected where the duplicate value was not detected. (3) The most sensitive CRQL/CRDL was selected where both values were not detected.

E.2.0. DATA QUALITY OBJECTIVES

As defined in the QAPjP, the following specific data quality objectives (DQOs) for accuracy, precision, completeness, representativeness and comparability were used to assess the overall quality of the analytical data collected from OU5.

The DQOs for analyses conducted during the investigations are listed in Tables E.2-1 and E.2-2.

E.2.1. ACCURACY

Accuracy is defined as the degree of difference between measured or calculated values and the true value. Accuracy was determined in the OU5 data set using matrix spike/matrix spike duplicates (MS/MSD) for organics and MS samples for inorganics and radiochemical analyses. Data were qualified on the basis of percent recoveries (%R) of these spikes in conjunction with other validation criteria. All DQOs for accuracy were met for the EG&G Mound OU5 project. Laboratory accuracy and precision performance summary tables for each analysis are presented in Section E.4.2.

E.2.2. PRECISION

Precision is defined as the reproducibility, or degree of agreement between replicate measurements of the same compound or element. No data were rejected due to unacceptable RPD results; therefore, the precision DQOs for the OU5 projects were met. Laboratory accuracy and precision performance summary tables for each analysis are presented in Section E.4.2.

E.2.3. COMPLETENESS

Completeness is a measure of the amount of valid data obtained from a measurement system that achieves the project goals, compared to the amount expected under normal conditions. For data to be considered valid, they must have met all acceptance criteria, including accuracy and precision, as well as any other criteria specified by the analytical methods used. Samples to be collected for OU5 were predefined by depth intervals at each borehole. The initial planned number of samples was an estimation based upon the expected depth of each borehole. When the estimated number of samples were not obtained from a borehole due to bedrock, those samples planned at a greater depth, but not taken, are not considered to adversely affect the completeness of the data set. The project completeness goal per the OU5 QAPjP was 90%. Completeness is calculated by dividing the number of samples not taken (15) by the total number of samples planned (163) and multiplying by 100. Then, subtract this value (9.2) from 100 to get completeness, which is 91%. Neither total samples planned nor samples not taken, includes samples planned from locations which are on or below bedrock.

E.2.4. REPRESENTATIVENESS

Representativeness is defined as the degree to which the data accurately and precisely represent a characteristic of a population, parameter variations at a sampling location, a process condition, or an environmental condition. Sample representativeness was ensured during OU5 investigation by collecting sufficient samples of a population medium, properly distributed with respect to location and time. Representativeness was assessed by reviewing the drilling techniques, sample collection methods, equipment, and sample containers used. Representativeness was also assessed by evaluating the RPD values calculated from the field duplicate samples, the duplicate concentration values reported from redundant analyses, and the concentrations of contaminants detected in the field and laboratory QC blanks. The reproducibility of a representative set of samples reflects the degree of heterogeneity of the sampled medium.

E.2.5. COMPARABILITY

Comparability is defined as the confidence with which one data set can be compared to another. To achieve data comparability, the data set used for OU5 was generated by employing standardized analytical methods and standardized data validation procedures where available (i.e., CLP Methods and Functional

Guidelines). Where general guidance was unavailable, Mound specific methods and data validation procedures common to all Mound remedial investigations were used.

Additionally, CompuChem participated in the analysis of Performance Evaluation (PE) samples for organics and inorganics and Cross Check (CC) samples for radionuclides. The results of the samples are listed in Tables E.2-3 and E.2-4. The laboratory's performance over the period presented indicates their ability to generate accurate results over time. Based on the overall quality of the PE and CC sample results, and the stringent QC requirements set by the standardized methods, the data generated is considered comparable to other data generated through similar processes.

E.3.0. DATA VALIDATION AND ASSESSMENT

The OU5 data were validated as described in the following subsections. Data quality was assessed and the usable data population was then determined using the preparation and selection process described in Section E.1.3.

E.3.1. DATA VALIDATION PROCESS

All data received from the laboratories were subjected to an initial review to ensure that all elements of the required deliverable were submitted. All analytical data were validated according to the guidelines and procedures described in the documents listed in Section E.1.2.1. Ten percent of the data received full validation including recalculation of selected data. The remaining 90% went through a verification process that reviewed QC information and other enclosed forms. Validators were responsible for (1) reviewing the laboratory data (i.e., ensuring that the required information was complete), (2) comparing the laboratory QC results with the required control limits (using professional judgment where specific limits were not specified), (3) verify that selected results were correctly calculated, (4) qualifying affected data points, and (5) preparing a technical justification for the validation actions taken.

Wet chemistry methods (i.e. chloride, pH, sulfate, etc.) were validated to equivalent levels as the balance of organic, inorganic, and radiochemical data. Wet chemistry methods have fewer laboratory QA requirements and provide more general information than do CLP and CLP-type analyses. The results of wet chemistry analyses were therefore incorporated into the overall assessment of DQOs, but individual QA and method specific results are not presented in this appendix.

E.3.2. DATA VALIDATION REVIEW PROCESS

All analytical data received from the validators were reviewed for completeness and consistency before the validation qualifiers were incorporated into the OU5 database. Approximately 10% of all data validation reports received a secondary review to ensure conformity in validation procedures among validators. Any qualifiers inconsistently or inappropriately applied were revised, as necessary. All changes were documented.

E.3.3. DATA QUALITY ASSESSMENT

The DQA was conducted using the validated results. The complete OU5 usable data set contained 25,836 concentration records. Bias and uncertainty were evaluated for all estimated (i.e., "J or UJ") data points based on 100 percent of the total estimated (i.e., those data points [records] that were qualified as "J or UJ") dataset. Of these data, 35% (3,178 concentration values) are considered to have been reported at an artificially lower concentration (i.e., potentially biased low). Approximately 9% (856 concentration values) of the OU5 dataset are considered to have been reported at a maximum value (i.e., potentially biased high). The direction of bias could not be determined for 35% (3,204 records) of the OU5 dataset with the information provided. Uncertainty was evaluated as the potential for false negative or false positive values. Based on the data evaluated, 37% (3,371 concentration values) of the estimated values reported are considered potential false negatives and approximately 9% (439 values) are considered potential false positives.

E.4.0. LABORATORY QUALITY CONTROL SUMMARY

E.4.1. HOLDING TIMES

Holding times are defined as the maximum amount of time allowed to elapse between the time of sample collection and the time of sample analysis. Analysis of samples that have exceeded the method-recommended holding times may result in the following: (1) concentrations of compounds that ordinarily would have been detected are undetected due to chemical transformation, compound volatilization, or biodegradation; (2) reported concentrations lower than those originally present, due to the factors previously stated; or (3) reported concentrations greater than those originally present in the sample, due to external contamination of water samples or changes in soil moisture content. No data was rejected due

to holding time violations. Approximately 4% (1,079 records) of the usable data population were estimated due to holding time violations.

E.4.2. ACCURACY AND PRECISION

Laboratory accuracy and precision assessment and matrix effect sample evaluation was conducted using MS/MSD (for organic compounds) and spike and duplicate (for inorganic compounds and radiochemical) analyses. Accuracy and precision were expressed as the percent recovery of the spike compounds, elements or isotopes and the relative percent difference of the concentrations of the spike compounds, respectively. For samples collected and analyzed for trace metals and other inorganic chemicals, precision was expressed as the percent difference of the concentration of elements detected in the sample and associated analytical duplicate. A MS/MSD or a spike and analytical duplicate analysis was required for every 20 samples of a similar matrix.

E.4.2.1. Volatile Organic Compound Analyses

Eighteen soil samples and eight water samples were analyzed as MS/MSDs using CLP methods. These samples were spiked with the following compounds: acrylonitrile, acetonitrile, 1,1-dichloroethene, trichloroethene, benzene, toluene, and chlorobenzene. The analytical accuracy and precision results are summarized in Tables E.4-1 through E.4-4.

E.4.2.2. Semivolatile Organic Compound Analyses

Sixteen soil and four water samples were analyzed as MS/MSDs using the CLP SOW. These samples were spiked with the following compounds: phenol, 2-chlorophenol, 1,4-dichlorobenzene, n-nitroso-di-n-propylamine, 1,2,4-trichlorobenzene, 4-chloro-3-methlyphenol, acenaphthene, 4-nitrophenol, 2,4-dinitrotoluene, pentachlorphenol, and pyrene. The analytical accuracy and precision results are summarized in Tables E.4-5 through E.4-8.

E.4.2.3. Pesticides/PCB Analyses

Sixteen soil and two water samples were analyzed as MS/MSDs using the CLP SOW. These samples were spiked with the following compounds: gamma-BHC (lindane), heptachlor, aldrin, dieldrin, endrin,

and 4,4'-DDT. A summary of the recovery and difference results is presented in Tables E.4-9 through E.4-12.

E.4.2.4. Purgeable Hydrocarbons Analyses

Four water samples were analyzed as MS/MSDs using the CLP SOW. These samples were spike with the following compounds: trans-1,2-Dichloroethene, cis-1,2-Dichloroethene, trichlorofluoromethane (Freon-11), and Freon-113. A summary of the recovery and difference results is presented in Tables E.4-13 through E.4-14.

E.4.2.5 Explosives Analyses

Twenty soil and four water samples were analyzed as MS/MSDs using the CLP SOW. These samples were spiked with the following compounds: RDX, 1,3,5-trinitrobenzene, 2,4,6-trinitrotoluene, 2,6-dinitrotoluene, and 2,4-dinitrotoluene. A summary of the recovery and difference results is presented in Table E.4-15 through E.4-18.

E.4.2.6. Inorganic Chemical Analyses

Ten soil and five water samples were analyzed as spike and duplicates using EPA CLP, solid waste, or other regional methods. A summary of the recovery and difference results is presented in Tables E.4-1 through E.4-22.

E.4.2.7. Lanthanide Analyses

Several soil and water samples were analyzed as spike and duplicates using EPA CLP, solid waste, or other regional methods. A summary of the recovery and difference results is presented in Tables E.4-23 through E.4-26.

E.4.2.8. Radionuclide Analyses

Several soil and water samples were analyzed as spike and duplicates using the referenced methods for radiochemical analyses. A summary of the recovery and difference results is presented in Tables E.4-27 through E.4-30.

E.4.3. COMPLETENESS

The analytical completeness goal was 95% as required by the OU5 QAPjP. Analytical completeness was calculated by determining the percentage of sample analyses that were not rejected for each method. No sample analyses were rejected, therefore the analytical completeness was 100% for all methods. Table E.4-31 presents analytical completeness on an analyses level, however these results do not impact the quality or completeness of the entire data set.

E.4.4. REPRESENTATIVENESS

Representativeness is ensured by conducting all field measurements, sample collection procedures, and laboratory analyses according to the guidelines and specifications described in the OU5 Work Plan, OU5 FSP, and OU5 QAPjP. Laboratory procedures initially were evaluated in the data validation process. All field procedures and any deviations are discussed in Section 2 of the report. The field duplicate values and QC blank results were processed using the procedures described in Section E.1.3. As a result, the dataset was considered representative for the purpose of the project.

Rejected values were not included in the usable data population due to the increased potential of using false positive or excluding false negative compounds or elements. As a result, 17 VOC, 45 SVOC, 39 Pesticide/PCB, 183 explosive, 304 inorganic, and 4 radiochemical data points were not included in the usable data population. Based on the evaluation of the field and laboratory QC results, 98 percent of the total environmental sample data points collected during OU5 were considered representative (i.e., 596 data points were removed from 26,432 total data points) and used as the basis for all recommendations presented in this report. Rejected data points are presented in Table E.4-32.

E.5.0. FIELD QUALITY CONTROL SUMMARIES

Forty-three trip blanks, 11 ambient blanks, 11 sample bank blanks, 18 equipment rinsate blanks, and 20 field duplicates were collected during this investigation. Trip ambient, and sample bank blanks were analyzed for VOCs only. Equipment rinsate blanks and field duplicates were analyzed for the same target compounds or elements and using the same laboratory techniques as those used for the environmental

samples. The analytical results obtained from the field QC blanks were used to assess the efficiency and effectiveness of the sample collection, handling, and equipment decontamination procedures used in the field.

E.5.1. TRIP BLANKS

Trip blanks monitor for VOC contamination during sample transport and storage. Trip blanks were prepared by the laboratory with American Society for Testing and Materials (ASTM) Type II water, stored with the unused sample bottles, and returned to the laboratory with each cooler containing VOC samples. The samples were analyzed for VOCs using the CLP SOW. Table E.5-1 summarizes the concentrations (i.e., greater than the applicable CRQL) of the detected VOCs in the trip blank samples collected during OU5 sampling. If the concentrations of the compounds detected in the environmental samples did not exceed 10 times (for methylene chloride, acetone, 2-butanone, and toluene) or 5 times (for all other compounds) that detected in the trip blank, the compound was considered not detected in the environmental sample (i.e., U) at the concentrations reported.

E.5.2. AMBIENT AND SAMPLE BANK BLANKS

Ambient blanks and sample bank blanks were collected to monitor for VOCs potentially present in the surrounding environment during sample collection and packaging respectively. Ambient blanks were collected by filling two 40-ml VOA containers with the ASTM Type II water at the site during the collection of the environmental samples. All ambient blanks were analyzed for CLP VOCs. Table E.5-2 summarizes the concentrations of the compounds detected in the ambient blanks.

Sample bank blanks were prepared by filling two 40-ml VOA containers with ASTM type II water at the location where the samples were packaged for shipment. The VOA vials were left uncapped during packaging. After the last environmental sample for a particular shipment had been prepared and placed in the shipping cooler, the vials were sealed and placed into the sample cooler. Sample bank blanks were tested for CLP VOCs.

E.5.3. EQUIPMENT RINSATE BLANKS

Equipment rinsate blanks were collected to evaluate the decontamination technique used for manual sampling equipment. Equipment rinsate blanks were collected by pouring ASTM Type II reagent water through a decontaminated piece of equipment into a prepared sample container appropriate for the required analysis. Equipment rinsate blanks were shipped to the laboratory, and analyzed for the same analytes as the environmental samples which the equipment was used to collect. All detected compounds and elements in the equipment rinsate blanks were evaluated and the reportable data points were adjusted using the procedure described for trip blanks. Table E.5-3 summarizes the concentrations of the compounds and elements detected in the equipment rinsate blanks collected during the OU5 projects.

E.5.4. FIELD REPLICATES

Replicate environmental samples were collected at selected locations to evaluate the precision of the sampling technique. The RPD value of each detected compound or element was reviewed to assess the sample collection reproducibility and matrix variability. Table E.5-4 summarizes the calculated RPD values (i.e. less than 20 percent [water samples] and less than 35 percent [soil samples]) for samples collected and analyzed for trace metals and organic compounds.

All field duplicate analyses results were evaluated for best value and CRQL/CRDL to be used in the OU5 data sets using the following procedure: (1) Duplicate detected values were averaged if the calculated RPD was less than or equal to 20 (water) or 35 (soil) percent. The higher concentration value was selected if the reference RPD value was exceeded. (2) The detected value was selected where the duplicate value was not detected. (3) The most sensitive CRQL/CRDL was selected where both values were not detected.

Table E.1-1. Samples Collected and Analyzed During the OU5 Field Investigation

Analysis	Soils		Water		
	Number of Environmental Samples	Number of Field Duplicate Samples	Number of Environmental Samples	Number of Field Duplicate Samples	Nymber of Field QC Samples
Volatile Organics	123	15	19	5	84
Semi-Volatile Organics	115	14	14	3	16
Pesticide/PCBs	115	14	13	3	16
Explosives	121	15	13	3	17
Inorganics	116	14	14	3	16
Gamma Spectroscopy	121	15	14	3	17
Alpha Spectroscopy	103	14	12	3	14
Liquid Scintillation	121	15	14	3	17
Alpha Scintillation	0	0	14	3	17
Conventional Analysis	115	14	14	3	16

PCB polychlorinated biphenyls
QC quality control

Table E.1-2. Validated Data Summary
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Validation Code	Validation Parameter	Reason	Bias	Uncertainty	Number of records
A01	Holding Times	Extraction Holding Times Were Exceeded.	PBL	PFN	117
A03	Holding Times	Analysis Holding Times were exceeded.	PBL	PFN	962
C01	Initial/Continuing Calibration - Organics	Initial Calibration RRF was <0.05.	PBL	PFN	26
C02	Initial/Continuing Calibration - Organics	Initial Calibration RSD was >30%.	PBU	NA	95
C05	Initial/Continuing Calibration - Organics	Continuing Calibration %D was >25%.	PBU	NA	242
C08	Initial/Continuing Calibration - Organics	RPD criteria were not met.	PBU	NA	53
C09	Initial/Continuing Calibration - Organics	RSD criteria were not met.	PBU	NA	23
C14	Initial/Continuing Calibration - Organics	Professional Judgement was used to qualify the data.	PBU	NA	13
D04	Initial/Continuing Calibration - Inorganic	CCV Recovery was above the upper control limit.	PBH	NA	2
D08	Initial/Continuing Calibration - Inorganic	Correlation coefficient as <0.995.	PBU	NA	16
E01	ICP/Furnace requirements	Interference check sample recovery was outside the control limit.	PBH	PFP	1
E03	ICP/Furnace requirements	Post digestion spike recovery was outside the control limit.	PBU	NA	88
E05	ICP/Furnace requirements	Correlation coefficient was <0.995.	PBL	NA	1

Table E.1-2. Validated Data Summary
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Validation Code	Validation Parameter	Reason	Bias	Uncertainty	Number of records
E07	ICP/Furnace requirements	Serial dilution criteria were not met.	PBU	NA	400
E08	ICP/Furnace requirements	Professional judgement was used to quality the data.	PBU	NA	22
F01	Blands	Sample data were qualified as a result of the method blank.	PBH	PFP	188
F02	Blanks	Sample data were qualified as a result of the field blank.	PBH	PFP	4
F03	Blanks	Sample data were qualified as a result of the equipment rinsate.	PBH	PFP	4
F06	Blanks	Concentration of the contaminant was detected at a level below the CRQL.	PBH	PFP	238
F07	Blanks	Concentration of the contaminant was detected at a level less than the action limit, but greater than the CRQL.	NA	NA	372
F08	Blanks	Concentration of the contaminant was detected at a level that exceeds the action level.	NA	NA	7
F10	Blanks	Blank had a negative value >5 X'S the IDL.	PBU	NA	351
G01	Surrogate/Radiological chemical recovery	Surrogate/Radiological chemical recovery was above the upper control limit.	PBH	NA	269
G02	Surrogate/Radiological chemical recovery	Surrogate/Radiological chemical recovery was below the lower control limit.	PBL	PFN	1368
G03	Surrogate/Radiological chemical recovery	Surrogate recovery was <10%.	PBL	PFN	32
G05	Surrogate/Radiological chemical recovery	Surrogate/Radiological chemical recovery data was not present.	PBU	NA	130

Table E.1-2. Validated Data Summary
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Validation Code	Validation Parameter	Reason	Bias	Uncertainty	Number of records
G06	Surrogate/Radiological chemical recovery	Professional Judgement was used to qualify the data.	PBU	NA	139
G07	Surrogate/Radiological chemical recovery	Radiological chemcial recovery was <20%.	PBL	PFN	3
H02	MS/MSD	MS/MSD recovery was below the lower control limit.	PBL	PFN	2
H04	MS/MSD	MS/MSD pairs exceed the RPD limit.	PBU	NA	16
I01	Matrix Spike	MS recovery was above the upper control limit.	PBH	NA	67
I02	Matrix Spike	MS recovery was below the lower control limit.	PBL	PFN	455
I03	Matrix Spike	MS Recovery was <30%.	PBL	PFN	118
J01	Laboratory Duplicate	Duplicate RPD/Radiological duplicate error ratio (DER) was outside the control limit.	PBU	NA	199
J02	Laboratory Duplicate	Duplicate sample results were >5 X the CRDL.	PBU	NA	60
J03	Laboratory Duplicate	Duplicate sample results were <5 X the CRDL.	PBU	NA	1
J04	Laboratory Duplicate	Professional judgement was used to qualify the data.	PBU	NA	19
K01	Internal area summary	Area counts were outside the control limits.	PBL	PFN	89
M07	Target compound ID	Professional judgement was used to qualify the data.	PBU	NA	24
M08	Target compound ID	The %D between the two pesticide/PCB column checks was >25%.	PBU	NA	146
N02	Comp. Quant/RPT'd CRQL	MDL'S reported by the laboratory exceeded corresponding CRQL'S.	NA	PFN	194

Table E.1-2. Validated Data Summary
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Validation Code	Validation Parameter	Reason	Bias	Uncertainty	Number of records
N03	Comp. Quant/RPT'd CRQL	Professional judgement used to qualify the data.	PBU	NA	51
O01	Tentatively identified compounds	Compound was suspected laboratory contaminant and was not detected in the blank.	NA	PFP	4
P01	LCS	LCS recovery was above upper control limit.	PBH	NA	83
P02	LCS	LCS recovery was below lower control limit.	PBL	PFN	5
P05	LCS	LCS was not analyzed at required frequency	PBU	NA	4
P08	LCS	Professional judgement was used to qualify the data.	PBU	NA	2
Q01	Field Duplicates	Field duplicate RPD's were >30% for waters and/or >50% for soils.	PBU	NA	650
R02	RAD Calibration	Energy calibration criteria were not met.	PBU	NA	93
R08	RAD Calibration	Professional judgement was used to qualify the data.	PBU	NA	88
S02	RAD Calibration verification	Energy verification criteria were not met.	PBU	NA	62
T04	RAD Quantitiation	Professional judgement was used to qualify the data.	PBU	NA	41
U03	Tagret RAD (GAMMA)	Professional judgement was used to qualify the data.	PBU	NA	33

CRQL Contract required detection level
IDL Instrument detection level
LCS Laboratory control sample
MSD Matrix spike duplicate
MS matrix spike
NA Not applicable
PBH Potentially biased high
PBL Potentially biased low
PBU Potential bias unknown
PFN Potential false negative
PFP Potential false postive
RPD Relative percent difference
RRF relative response factor
RSD Relative standard deviation

Table E.2-1. OU5 Data Quality Objectives for Water Samples

Analysis	Method	Accuracy* (% R)	Precision (RPD)	Completeness (%)
Volatile Organic Compounds	CLP SOW	61-145	14	95%
Semivolatile Organic Compounds	CLP SOW	9-127	50	95%
Pesticides/PCBs	CLP SOW	38-131	27	95%
Purgeable Hydrocarbons	SW846 8010		15	95%
Inorganics	CLP SOW	75-125	20	95%
Lanthanides	CLP SOW MOD C	75-125	20	95%
Explosives	SW846 8330	62-102	45	95%
Radiological Data	Various	± 3 x SD	+ 4 x SD	95%

-- Actual limits not stated in the QAPjP
* Accuracy values presented in table represent a compulation of all acceptable recovery ranges of individual compounds (i.e., the maximum and minimum limit of any target list compound (TLC).
CLP SOW Contract laboratory program statment of work
MOD Modification
PCB Polychlorinated biphenyl
%R Percent recovery
RPD Relative percent difference

Table E.2-2. OU5 Data Quality Objectives for Soil Samples

Analysis	Method	Accuracy (% R)	Precision (RPD)	Completeness (%)
Volatile Organic Compounds	CLP SOW	59-172	24	95%
Semivolatile Organic Compounds	CLP SOW	11-142	50	95%
Pesticides/PCBs	CLP SOW	23-139	50	95%
Purgeable Hydrocarbons	SW846 8010	60-140	30	95%
Inorganics	CLP SOW	75-125	35	95%
Lanthanides	CLP SOW MOD C	75-125	20	95%
Explosives	SW8330	--	--	95%
Radiological Data	Various	± 3 x SD	+ 4 x SD	95%

-- Actual limits not stated in the QAPjP
SD Standard Deviation - number determined by laboratory
* Accuracy values presented in table represent a compulation of all acceptable recovery ranges of individual compounds (i.e., the maximum and minimum limit of any target list compound (TLC).
CLP SOW Contract laboratory program statment of work
MOD Modification
PCB Polychlorinated biphenyl
%R Percent recovery
RPD Relative percent difference

Table E.2-3. Performance Evaluation Report for CompuChem
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Analyte	Test Date					
	Third Quarter 1994			Fourth Quarter 1994		
	Sample 1	Sample 2	Sample 3	Sample 1	Sample 2	Sample 3
Aluminum	Satisfactory	Satisfactory	Satisfactory	Satisfactory	----	Satisfactory
Antimony	Unsatisfactory	Satisfactory	Satisfactory	Satisfactory	Satisfactory	Satisfactory
Arsenic	Satisfactory	Unsatisfactory	Satisfactory	Satisfactory	Satisfactory	Satisfactory
Barium	Satisfactory	Satisfactory	Satisfactory	Satisfactory	Satisfactory	----
Beryllium	Satisfactory	Satisfactory	Satisfactory	Unsatisfactory	Satisfactory	----
Cadmium	Satisfactory	Satisfactory	Warning	Satisfactory	Satisfactory	Satisfactory
Calcium	Satisfactory	Satisfactory	Satisfactory	Satisfactory	Satisfactory	----
Chromium	Satisfactory	Satisfactory	Satisfactory	Satisfactory	Unsatisfactory	Unsatisfactory
Cobalt	----	Satisfactory	Satisfactory	----	Unsatisfactory	Satisfactory
Copper	Satisfactory	Satisfactory	Satisfactory	Satisfactory	Satisfactory	----
Iron	Satisfactory	Satisfactory	Unsatisfactory	Satisfactory	Satisfactory	Satisfactory
Lead	Satisfactory	Satisfactory	Satisfactory	Satisfactory	Satisfactory	Satisfactory
Magnesium	Satisfactory	Satisfactory	Satisfactory	Satisfactory	Satisfactory	Satisfactory
Manganese	Satisfactory	Satisfactory	Satisfactory	Satisfactory	----	Satisfactory
Mercury	Satisfactory	Satisfactory	Satisfactory	Satisfactory	Unsatisfactory	Satisfactory
Nickel	Satisfactory	Satisfactory	Satisfactory	Satisfactory	Satisfactory	----
Potassium	Satisfactory	Satisfactory	Satisfactory	Satisfactory	----	Satisfactory

Table E.2-3. Performance Evaluation Report for CompuChem
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Analyte	Test Date					
	Third Quarter 1994			Fourth Quarter 1994		
	Sample 1	Sample 2	Sample 3	Sample 1	Sample 2	Sample 3
Selenium	Satisfactory	Satisfactory	Satisfactory	Satisfactory	----	Satisfactory
Silver	Satisfactory	----	Unsatisfactory	Satisfactory	Unsatisfactory	Satisfactory
Sodium	----	Satisfactory	Satisfactory	Unsatisfactory	Satisfactory	----
Thallium	----	Satisfactory	Satisfactory	Satisfactory	----	Satisfactory
Vanadium	Satisfactory	Satisfactory	Satisfactory	Satisfactory	----	Satisfactory
Zinc	Satisfactory	Satisfactory	Satisfactory	Satisfactory	----	Satisfactory
Bromomethane	----	----	----	Satisfactory	----	----
Bromodichloromethane	----	----	----	Unsatisfactory	----	----
Trichloroethene	----	----	----	Satisfactory	----	----
trans-1,3-Dichloropropene	----	----	----	Satisfactory	----	----
2-pentanone,4-Methyl-	----	----	----	Satisfactory	----	----
2-Hexanone	----	----	----	Satisfactory	----	----
Tetrachloroethene	----	----	----	Satisfactory	----	----
1,1,2,2-Tetrachloroethane	----	----	----	Warning	----	----
Ethyl benzene	----	----	----	Satisfactory	----	----
Styrene	----	----	----	Satisfactory	----	----
Phenol	----	----	----	Satisfactory	----	----

Table E.2-3. Performance Evaluation Report for CompuChem
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Analyte	Test Date					
	Third Quarter 1994			Fourth Quarter 1994		
	Sample 1	Sample 2	Sample 3	Sample 1	Sample 2	Sample 3
2-Chlorophenol	----	----	----	Satisfactory	----	----
1,4-Dichlorobenzene	----	----	----	Satisfactory	----	----
2,2'-oxybis(1-Chloropropene)	----	----	----	Satisfactory	----	----
Naphthalene	----	----	----	Satisfactory	----	----
Acenaphthene	----	----		Satisfactory	----	----
Dibenzofuran	----	----	----	Satisfactory	----	----
Diethylphthalate	----	----	----	Satisfactory	----	----
Fluorene	----	----	----	Satisfactory	----	----
Hexachlorobenzene	----	----	----	Satisfactory	----	----
Pentachlorophenol	----	----	----	Satisfactory	----	----
Fluoranthene	----	----	----	Satisfactory	----	----
Pyrene	----	----	----	Satisfactory	----	----
Dibenzo(a,h)anthracene	----	----	----	Satisfactory	----	----
gamma-BHC	----	----	----	Warning	----	----
Aldrin	----	----	----	Satisfactory	----	----
Dieldrin	----	----	----	Satisfactory	----	----
4,4'-DDE	----	----	----	Satisfactory	----	----

Table E.2-3. Performance Evaluation Report for CompuChem
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Analyte	Test Date					
	Third Quarter 1994			Fourth Quarter 1994		
	Sample 1	Sample 2	Sample 3	Sample 1	Sample 2	Sample 3
Endrin	----	----	----	Satisfactory	----	----
4,4'-DDD	----	----	----	Satisfactory	----	----
Methoxychlor	----	----	----	Satisfactory	----	----
Aroclor-1016	----	----	----	----	----	----

---	Not Provided
Acceptable	Result $\leq \pm 2$ Standard Deviations from Actual Concentrations
Warning	Result between 2 and 3 Standard Deviations from Actual Concentrations
Unaccpetable	Result $> \pm 3$ Standard Deviations from Actual Concentrations

Table E.2-4. Cross Check Samples for CompuChem

Analyte	Date of Study
	April-94
Cesium-134 in Water	Satisfactory
Cesium-137 in Water	Satisfactory
Cobalt-60 in Water	Satisfactory
Gross Alpha in Water	Satisfactory
Gross Beta in Water	Satisfactory
Radium-226 in Water	Satisfactory
Radium-228 in Water	Satisfactory
Strontium-90 in Water	Satisfactory
Strontium-89 in Water	Satisfactory
Uranium (Natural) in Water	Satisfactory

Satisfactory Results were within action limits.

Table E.4-1. Volatiles Accuracy Summary - Soil Samples

Analyte	Number of Spiked Samples	Spiked Recoveries Within Limits	Minimim Spike Recovery (%)	Maximum Spike Recovery (%)	Lab Acceptance Limits
1,1-Dichloroethene	18	18	78	112	59-172
Trichloroethene	18	18	79	107	62-137
Benzene	18	18	80	104	66-142
Toluene	18	18	93	120	59-139
Chlorobenzene	18	18	85	105	60-133
Acetonitrile	18	16	31	124	60-140
Acrylonitrile	18	18	82	118	60-140

Table E.4-2. Volatiles Accuracy Summary - Water Samples

Analyte	Number of Spiked Samples	Spiked Recoveries Within Limits	Minimum Spike Recovery (%)	Maximum Spike Recovery (%)	Lab Acceptance Limits
1,1-Dichloroethene	8	8	86	103	61-145
Trichloroethene	8	8	90	113	71-120
Benzene	8	8	87	106	76-127
Toluene	8	8	87	98	76-125
Chlorobenzene	8	8	88	102	75-130
Acetonitrile	8	7	94	156	70-130
Acrylonitrile	8	8	80	116	70-130

Table E.4-3. Volatiles Precision Summary - Soil Samples

Analyte	Number of Spike Duplicate Pairs	Number of Calculated RPDs Within Limits	Minimum RPD	Maximum RPD	Lab Acceptance Limits
1,1-Dichloroethene	9	9	0	13	22
Trichloroethene	9	9	0	20	24
Benzene	9	9	0	10	21
Toluene	9	9	0	16	21
Chlorobenzene	9	9	0	16	21
Acetonitrile	9	6	2	107	25
Acrylonitrile	9	9	1	15	25

RPD relative percent difference

Table E.4-4. Volatiles Precision Summary - Water Samples

Analyte	Number of Spike Duplicate Pairs	Number of Calculated RPDs Within Limits	Minimum RPD	Maximum RPD	Lab Acceptance Limits
1,1-Dichloroethene	4	4	3	12	14
Trichloroethene	4	4	0	7	14
Benzene	4	4	0	5	11
Toluene	4	4	1	3	13
Chlorobenzene	4	4	1	4	13
Acetonitrile	4	3	1	49	15
Acrylonitrile	4	3	3	15	15

RPD relative percent difference

Table E.4-5. Semivolatiles Accuracy Summary - Soil Samples

Analyte	Number of Spiked Samples	Spiked Recoveries Within Limits	Minimum Spike Recovery (%)	Maximum Spike Recovery (%)	Lab Acceptance Limits
Phenol	16	14	62	102	26-90
2-Chlorophenol	16	16	53	93	25-102
1,4-Dichlorobenzene	16	16	69	94	28-104
n-Nitroso-di-n-propylamine	16	16	70	111	41-126
1,2,4-Trichlorobenzene	16	12	79	122	38-107
4-Chloro-3-methylphenol	16	10	89	125	26-103
Acenaphthene	16	16	68	102	31-137
4-Nitrophenol	16	16	62	107	11-114
2,4-Dinitrotoluene	16	7	75	102	28-89
Pentachlorophenol	16	14	51	119	17-109
Pyrene	16	14	12	127	35-142

Table E.4-6. Semivolatiles Accuracy Summary - Water Samples

Analyte	Number of Spiked Samples	Spiked Recoveries Within Limits	Minimum Spike Recovery (%)	Maximum Spike Recovery (%)	Lab Acceptance Limits
Phenol	4	4	68	75	12-110
2-Chlorophenol	4	4	66	75	27-123
1,4-Dichlorobenzene	4	4	59	75	36-97
n-Nitroso-di-n-propylamine	4	4	77	88	41-116
1,2,4-Trichlorobenzene	4	4	64	98	39-98
4-Chloro-3-methylphenol	4	3	80	104	23-97
Acenaphthene	4	4	70	85	46-118
4-Nitrophenol	4	2	74	109	10-80
2,4-Dinitrotoluene	4	4	64	72	24-96
Pentachlorophenol	4	3	86	107	9-103
Pyrene	4	4	64	76	26-127

Table E.4-7. Semivolatiles Precision Summary - Soil Samples

Analyte	Number of Spike Duplicate Pairs	Number of Calculated RPDs Within Limits	Minimum RPD	Maximum RPD	Lab Acceptance Limits
Phenol	8	8	0	11	35
2-Chlorophenol	8	8	1	11	50
1,4-Dichlorobenzene	8	8	0	10	27
n-Nitroso-di-n-propylamine	8	8	1	26	38
1,2,4-Trichlorobenzene	8	8	2	18	23
4-Chloro-3-methylphenol	8	8	2	20	33
Acenaphthene	8	7	0	23	19
4-Nitrophenol	8	8	0	25	50
2,4-Dinitrotoluene	8	8	4	25	47
Pentachlorophenol	8	8	1	29	47
Pyrene	8	6	1	77	36

RPD relative percent difference

Table E.4-8. Semivolatiles Precision Summary - Water Samples

Analyte	Number of Spike Duplicate Pairs	Number of Calculated RPDs Within Limits	Minimum RPD	Maximum RPD	Lab Acceptance Limits
Phenol	2	2	1	4	42
2-Chlorophenol	2	2	0	4	40
1,4-Dichlorobenzene	2	2	10	16	28
n-Nitroso-di-n-propylamine	2	2	5	9	38
1,2,4-Trichlorobenzene	2	2	14	17	28
4-Chloro-3-methylphenol	2	2	0	10	42
Acenaphthene	2	2	1	8	31
4-Nitrophenol	2	2	3	9	50
2,4-Dinitrotoluene	2	2	3	9	38
Pentachlorophenol	2	2	0	12	50
Pyrene	2	2	3	5	31

RPD relative percent difference

Table E.4-9. Pesticide/PCBs Accuracy Summary - Soil Samples

Analyte	Number of Spiked Samples	Spiked Recoveries Within Limits	Minimum Spike Recovery (%)	Maximum Spike Recovery (%)	Lab Acceptance Limits
Lindane	16	16	55	86	46-127
Heptachlor	16	16	61	91	35-130
Aldrin	16	16	49	91	34-132
Dieldrin	16	16	56	88	31-134
Endrin	16	16	67	93	42-139
4,4'-DDT	16	16	61	87	23-134

Table E.4-10. Pesticide/PCBs Accuracy Summary - Water Samples

Analyte	Number of Spiked Samples	Spiked Recoveries Within Limits	Minimum Spike Recovery (%)	Maximum Spike Recovery (%)	Lab Acceptance Limits
Lindane	2	2	68	72	56-123
Heptachlor	2	2	70	72	40-131
Aldrin	2	2	58	60	40-120
Dieldrin	2	2	64	67	52-126
Endrin	2	2	68	71	56-121
4,4'-DDT	2	2	71	71	38-127

Table E.4-11. Pesticide/PCBs Precision Summary - Soil Samples

Analyte	Number of Spike Duplicate Pairs	Number of Calculated RPDs Within Limits	Minimum RPD	Maximum RPD	Lab Acceptance Limits
Gamma	8	8	0	14	50
Heptachlor	8	8	0	19	31
Aldrin	8	8	0	19	43
Dieldrin	8	8	1	20	38
Endrin	8	8	1	17	45
4,4'-DDT	8	8	0	17	50

RPD relative percent difference

Table E.4-12. Pesticide/PCBs Precision Summary - Water Samples

Analyte	Number of Spike Duplicate Pairs	Number of Calculated RPDs Within Limits	Minimum RPD	Maximum RPD	Lab Acceptance Limits
Gamma	1	1	6	6	15
Heptachlor	1	1	3	3	20
Aldrin	1	1	3	3	22
Dieldrin	1	1	5	5	18
Endrin	1	1	4	4	21
4,4'-DDT	1	1	0	0	27

RPD relative percent difference

Table E.4-13. Purgeable Hydrocarbons Accuracy Summary - Water Samples

Analyte	Number of Spiked Samples	Spiked Recoveries Within Limits	Minimum Spike Recovery (%)	Maximum Spike Recovery (%)	Lab Acceptance Limits
trans-1,2-Dichloroethene	4	4	117	130	38-155
cis-1,2-Dichloroethene	4	4	118	131	38-155
trichlorofluoromethane	4	4	116	136	21-156
Freon-113	4	4	116	144	21-156

Table E.4-14. Purgeable Hydrocarbons Precision Summary - Water Samples

Analyte	Number of Spiked Samples	Spiked Recoveries Within Limits	Minimum Spike Recovery (%)	Maximum Spike Recovery (%)	Lab Acceptance Limits
trans-1,2-Dichloroethene	2	2	2	2	20
cis-1,2-Dichloroethene	2	2	1	5	20
trichlorofluoromethane	2	2	5	6	20
Freon-113	2	2	3	4	20

Table E.4-15. Explosives Accuracy Summary - Soil Samples

Analyte	Number of Spiked Samples	Spiked Recoveries Within Limits	Minimum Spike Recovery (%)	Maximum Spike Recovery (%)	Lab Acceptance Limits
RDX	20	18	57	211	40-160
1,3,5-Trinitrobenzene	20	18	57	212	40-160
2,4-Dinitrotoluene	20	17	55	177	40-160
2,6-Dinitrotoluene	20	18	49	171	40-160
2,4,6-Trinitrotoluene	20	19	70	288	40-160

Table E.4-16. Explosives Accuracy Summary - Water Samples

Analyte	Number of Spiked Samples	Spiked Recoveries Within Limits	Minimum Spike Recovery (%)	Maximum Spiked Recovery (%)	Lab Acceptance Limits
RDX	4	1	52	112	62-87
1,3,5-Trinitrobenzene	4	3	59	99	85-100
2,4-Dinitrotoluene	4	3	53	99	75-99
2,6-Dinitrotoluene	4	2	58	109	66-102
2,4,6-Trinitrotoluene	4	1	65	126	78-102

Table E.4-17. Explosives Precision Summary - Soil Samples

Analyte	Number of Spike Duplicate Pairs	Number of Calculated RPDs Within Limits	Minimum RPD	Maximum RPD	Lab Acceptance Limits
RDX	10	8	0	61	40
1,3,5-Trinitrobenzene	10	8	2	51	30
2,4-Dinitrotoluene	10	6	0	59	40
2,6-Dinitrotoluene	10	10	1	57	60
2,4,6-Trinitrotoluene	10	8	0	103	40

RPD relative percent difference

Table E.4-18. Explosives Precision Summary - Water Samples

Analyte	Number of Spike Duplicate Pairs	Number of Calculated RPDs Within Limits	Minimum RPD	Maximum RPD	Lab Acceptance Limits
RDX	2	1	1	42	32
1,3,5-Trinitrobenzene	2	1	6	37	19
2,4-Dinitrotoluene	2	1	0	34	31
2,6-Dinitrotoluene	2	2	38	45	45
2,4,6-Trinitrotoluene	2	1	40	10	29

RPD relative percent difference

Table E.4-19. Metals Accuracy Summary - Soil Samples

Analyte	Number of Spiked Samples	Spiked Recoveries Within Limits	Minimum Spiked Recovery (%)	Maximum Spiked Recovery (%)	Lab Acceptance Limits
Aluminum	0	--	--	--	--
Antimony	10	1	8	76	75-125
Arsenic	10	8	60	96	75-125
Barium	10	8	70	105	75-125
Beryllium	10	8	65	100	75-125
Bismuth	10	10	76	94	75-125
Cadmium	10	5	64	97	75-125
Calcium	0	--	--	--	--
Chromium	10	7	70	125	75-125
Cobalt	10	8	68	95	75-125
Copper	10	10	79	111	75-125
Iron	0	--	--	--	--
Lead	12	8	68	151	75-125
Magnesium	0	--	--	--	--
Manganese	10	3	-106	419	75-125
Mercury	10	10	86	125	75-125
Nickel	10	8	74	96	75-125
Potassium	0	--	--	--	--
Selenium	10	9	68	107	75-125
Silver	10	10	78	98	75-125
Sodium	0	--	--	--	--
Thallium	10	5	46	96	75-125
Tin	10	10	81	105	75-125
Vanadium	10	6	62	106	75-125
Zinc	10	8	68	124	75-125
Lithium	9	9	88	101	75-125
Molybdenum	9	4	28	3624	75-125
Cyanide	10	10	86	100	75-125

-- Not Applicable

Table E.4-20. Metals Accuracy Summary - Water Samples

Analyte	Number of Spiked Samples	Spiked Recoveries Within Limits	Minimum Spike Recovery (%)	Maximum Spike Recovery (%)	Lab Acceptance Limits
Aluminum	5	2	7	235	75-125
Antimony	5	4	32	97	75-125
Arsenic	5	4	22	102	75-125
Barium	5	4	74	97	75-125
Beryllium	5	5	76	101	75-125
Bismuth	5	5	86	100	75-125
Cadmium	5	4	51	93	75-125
Calcium	0	--	--	--	--
Chromium	5	4	57	97	75-125
Cobalt	5	4	63	96	75-125
Copper	5	5	75	98	75-125
Iron	5	3	1	845	75-125
Lead	5	5	89	106	75-125
Magnesium	0	--	--	--	--
Manganese	5	4	47	104	75-125
Mercury	5	4	98	128	75-125
Nickel	5	4	58	112	75-125
Potassium	0	--	--	--	--
Selenium	5	4	0	111	75-125
Silver	5	4	65	96	75-125
Sodium	0	--	--	--	--
Thallium	5	4	42	98	75-125
Tin	5	2	50	98	75-125
Vanadium	5	4	65	96	75-125
Zinc	5	4	65	98	75-125
Lithium	2	2	98	105	75-125
Molybdenum	2	2	95	99	75-125
Cyanide	5	5	90	95	75-125

-- Not Applicable

Table E.4-21. Metals Precision Summary - Soil Samples

Analyte	Number of Spike Duplicate Pairs	Number of Calculated RPDs Within Limits	Minimum RPD	Maximum RPD	Lab Acceptance Limits
Aluminum	10	8	1	43	35
Antimony	3	3	2	23	35
Arsenic	10	9	1	45	35
Barium	10	7	1	67	35
Beryllium	8	6	1	39	35
Bismuth	8	8	2	19	35
Cadmium	3	3	1	17	35
Calcium	10	8	1	49	35
Chromium	10	9	2	37	35
Cobalt	10	10	1	22	35
Copper	10	8	1	46	35
Iron	10	10	1	26	35
Lead	12	11	1	57	35
Magnesium	10	8	2	48	35
Manganese	10	9	1	42	35
Mercury	1	1	12	12	35
Nickel	10	9	1	51	35
Potassium	10	9	3	37	35
Selenium	0	--	--	--	--
Silver	1	0	69	69	35
Sodium	10	10	1	29	35
Thallium	1	1	12	12	35
Tin	2	1	1	37	35
Vanadium	10	9	2	38	35
Zinc	10	10	2	35	35
Lithium	9	9	1	28	35
Molybdenum	6	6	5	19	35
Cyanide	0	--	--	--	--

-- not applicable RPD relative percent difference

Table E.4-22. Metals Precision Summary - Water Samples

Analyte	Number of Spike Duplicate Pairs	Number of Calculated RPDs Within Limits	Minimum RPD	Maximum RPD	Lab Acceptance Limits
Aluminum	4	3	5	101	20
Antimony	0	--	--	--	--
Arsenic	1	1	10	10	20
Barium	4	3	9	45	20
Beryllium	1	1	1	1	20
Bismuth	2	2	2	9	20
Cadmium	0	--	--	--	--
Calcium	5	5	1	16	20
Chromium	2	2	1	5	20
Cobalt	3	1	13	44	20
Copper	4	2	8	28	20
Iron	5	2	1	141	20
Lead	3	3	2	14	20
Magnesium	5	4	1	26	20
Manganese	3	3	1	5	20
Mercury	0	--	--	--	--
Nickel	3	2	3	171	20
Potassium	4	4	2	15	20
Selenium	0	--	--	--	--
Silver	0	--	--	--	--
Sodium	5	5	1	13	20
Thallium	0	--	--	--	--
Tin	0	--	--	--	--
Vanadium	3	2	4	95	20
Zinc	5	3	1	65	20
Lithium	1	1	2	2	20
Molybdenum	1	1	1	1	20
Cyanide	0	--	--	--	--

-- not applicable RPD relative percent difference

Table E.4-23. Lanthanides Accuracy Summary - Soil Samples

Analyte	Number of Spiked Samples	Spiked Recoveries Within Limits	Minimum Spiked Recovery (%)	Maximum Spiked Recovery (%)	Lab Acceptance Limits
Cerium	4	4	93	101	75-125
Dypsprosium	4	4	89	95	75-125
Erbium	4	0	126	138	75-125
Europium	4	4	91	98	75-125
Gadolinium	4	2	33	96	75-125
Holmium	4	4	91	100	75-125
Lanthanum	4	4	93	98	75-125
Lutetium	4	4	95	100	75-125
Neodymium	4	4	92	98	75-125
Praseodym	4	4	79	93	75-125
Samarium	4	4	98	101	75-125
Terbium	4	4	88	96	75-125
Thulium	4	4	86	89	75-125
Ytterbium	4	4	94	95	75-125

Table E.4-24. Lanthanides Accuracy Summary - Water Samples

Analyte	Number of Spiked Samples	Spiked Recoveries Within Limits	Minimum Spiked Recovery (%)	Maximum Spiked Recovery (%)	Lab Acceptance Limits
Cerium	2	2	99	104	075-125
Dypsprosium	2	2	93	94	75-125
Erbium	2	0	140	146	75-125
Europium	2	2	97	102	75-125
Gadolinium	2	1	73	103	75-125
Holmium	2	2	103	105	75-125
Lanthanum	2	2	98	103	75-125
Lutetium	2	2	103	105	75-125
Neodymium	2	2	96	97	75-125
Praseodym	2	2	96	97	75-125
Samarium	2	2	100	100	75-125
Terbium	2	2	96	102	75-125
Thulium	2	2	94	101	75-125
Ytterbium	2	2	98	102	75-125

Table E.4-25. Lanthanides Precision Summary - Soil Samples

Analyte	Number of Spike Duplicate Pairs	Number of Calculated RPDs Within Limits	Minimum RPD	Maximum RPD	Lab Acceptance Limits
Cerium	4	3	7	43	35
Dypsprosium	2	2	11	15	35
Erbium	1	1	25	25	35
Europium	1	1	35	35	35
Gadolinium	1	1	1	1	35
Holmium	0	--	--	--	--
Lanthanum	4	3	6	54	35
Lutetium	0	--	--	--	--
Neodymium	3	2	11	78	35
Praseodymium	1	1	20	20	35
Samarium	0	--	--	--	--
Terbium	0	--	--	--	--
Thulium	0	--	--	--	--
Ytterbium	2	2	2	14	35

-- not applicable
RPD relative percent difference

Table E.4-26. Lanthanides Precision Summary - Water Samples

Analyte	Number of Spike Duplicate Pairs	Number of Calculated RPDs Within Limits	Minimum RPD	Maximum RPD	Lab Acceptance Limits
Cerium	0	--	--	--	--
Dypsprosium	0	--	--	--	--
Erbium	0	--	--	--	--
Europium	0	--	--	--	--
Gadolinium	1	1	6	6	20
Holmium	0	--	--	--	--
Lanthanum	0	--	--	--	--
Lutetium	0	--	--	--	--
Neodymium	0	--	--	--	--
Praseodymium	0	--	--	--	--
Samarium	0	--	--	--	--
Terbium	0	--	--	--	--
Thulium	0	--	--	--	--
Ytterbium	0	--	--	--	--

-- not applicable
RPD relative percent difference

Table E.4-27. Radionuclides Accuracy Summary - Soil Samples

Analyte	Number of Spiked Samples	Spiked Recoveries Within Limits	Minimum Spiked Recovery (%)	Maximum Spiked Recovery (%)	Lab Acceptance Limits
Uranium-238	9	9	85	103	75-125
Thorium-230	9	9	95	119	75-125
Plutonium-238	9	9	95	110	75-125
Tritium	9	9	87	109	75-125
Strontium-90	9	9	92	123	75-125

Table E.4-28. Radionuclides Accuracy Summary - Water Samples

Analyte	Number of Spiked Samples	Spiked Recoveries Wtihin Limits	Minimum Spiked Recovery (%)	Maximum Spiked Recovery (%)	Lab Acceptance Limits
Uranium-238	6	6	96	105	75-125
Thorium-230	6	6	93	113	75-125
Plutonium-238	6	6	96	103	75-125
Tritium	6	6	94	99	75-125
Strontium-90	6	6	90	114	75-125
Radium-226	6	6	98	104	75-125
Americium-241	6	6	88	97	75-125

Table E.4-29. Radionuclides Precision Summary - Soil Samples

Analyte	Number of Spiked Duplicate Pairs	Number of Calculated RPDs Within Limits	Minimum RPD	Maximum RPD	Lab Acceptance Limits
Uranium-238	9	8	2	54	50
Uranium-235	2	1	40	123	50
Uranium-234	8	8	0	34	50
Plutonium-239/240	0	--	--	--	--
Plutonium-238	3	2	13	105	50
Thorium-232	8	5	2	82	50
Thorium-230	9	5	1	113	50
Thorium-228	9	9	3	35	50
Actinium-227	0	--	--	--	--
Americium-241	0	--	--	--	--
Cobalt-60	0	--	--	--	--
Cesium-137	4	3	3	57	50
Bismuth-210	0	--	--	--	--
Bismuth-207	0	--	--	--	--
Potassium-40	9	9	2	40	50
Radium-226	7	6	6	57	50
Tritium	2	2	7	23	50
Strontium-90	0	--	--	--	--

-- not applicable
RPD relative percent difference

Table E.4-30. Radionuclides Precision Summary - Water Samples

Analyte	Number of Spiked Duplicate Pairs	Number of Calculated RPDs Within Limits	Minimum RPD	Maximum RPD	Lab Acceptance Limits
Uranium-238	0	--	--	--	--
Uranium-235	0	--	--	--	--
Uranium-234	3	1	27	159	50
Plutonium-239/240	2	1	22	118	50
Plutonium-238	0	--	--	--	--
Thorium-232	1	1	36	36	50
Thorium-230	3	0	60	89	50
Thorium-228	6	6	9	28	50
Actinium-227	0	--	--	--	--
Americium-241	4	2	11	132	50
Cobalt-60	0	--	--	--	--
Cesium-137	0	--	--	--	--
Bismuth-210	0	--	--	--	--
Bismuth-207	0	--	--	--	--
Potassium-40	0	--	--	--	--
Radium-226	2	2	4	30	50
Tritium	1	1	11	11	50
Strontium-90	0	--	--	--	--

-- not applicable
RPD relative percent difference

Table E.4-31. Summary of Analytical Completeness

Analysis	Number of Samples Collected and Analyzed	Number of Concentration Values from Samples	Number of Concentration Values Rejected	Completeness (%)	Reason for Rejected Concentration Values
VOC	142	5460	17	100	Unacceptable QC results
SVOC	129	8303	45	99	Unacceptable QC results
Pesticides/PCBs	128	3593	39	99	Not Applicable
Explosives	134	1496	183	88	Not Applicable
Inorganics (trace metals and cyanide)	130	4622	304	93	Unacceptable QC results
Alpha Spectrometry[a]	115	943	3	99	Unacceptable QC results
Liquid Scintillation	135	263	1	99	Unacceptable QC results
Gamma Spectrometry[b]	125	1052	0	100	Not Applicable
Alpha Scintilliation	14	14	0	10	Not Applicable

[a] Alpha spectrometry included the analysis of plutonium, uranium, thorium, and americium-241 (in water samples only).
[b] Gamma spectrometry included the analysis of potassium-40, cesium-137, cobalt-60, bismuth-207, bismuth-210, radium-226, and americium-241 (in soils only).
NA Not applicable
PCB polychlorinated biphenyls
QC quality control
SVOC semivolatile organic compound
VOC volatile organic compound

Table E.4-32. Rejected Data Summary
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Sample ID	Analysis Type	Parameter	Results	Units	Rejection Explanation
B01001	Explosives	PETN	1.0	MG/KG	Surrogate/radiological chemical recovery data was not present.
B01001	Pesticide/PCBs	gamma-BHC (Lindane)	0.19	UG/KG	The %D between the two pesticide/PCB column checks was >25%.
B01002	Explosives	PETN	1.0	MG/KG	Surrogate/radiological chemical recovery data was not present.
B01002	Pesticide/PCBs	alpha-Chlordane	0.098	UG/KG	The %D between the two pesticide/PCB column checks was >25%.; Surrogate/radiological chemical recovery was above the upper control limit.
B01003	Explosives	PETN	1.0	MG/KG	Surrogate/radiological chemical recovery data was not present.
B01004	Explosives	PETN	1.0	MG/KG	Surrogate/radiological chemical recovery data was not present.
B01005	Inorganics	Molybdenum	1.2	MG/KG	MS recovery was <30%.
B01005	Explosives	PETN	1.0	MG/KG	Surrogate/radiological chemical recovery data was not present.
B01006	Explosives	PETN	1.0	MG/KG	Surrogate/radiological chemical recovery data was not present.
B01007	Explosives	PETN	1.0	MG/KG	Surrogate/radiological chemical recovery data was not present.
B02001	Inorganics	Molybdenum	1.2	MG/KG	MS recovery was <30%.
B02001	Explosives	PETN	1.0	MG/KG	Surrogate/radiological chemical recovery data was not present.
B02001	Pesticide/PCBs	alpha-Chlordane	0.13	UG/KG	The %D between the two pesticide/PCB column checks was >25%.
B02002	Explosives	PETN	1.0	MG/KG	Surrogate/radiological chemical recovery data was not present.
B03001	Inorganics	Molybdenum	1.2	MG/KG	MS recovery was <30%.
B03001	Explosives	PETN	1.0	MG/KG	Surrogate/radiological chemical recovery data was not present.
B03001	Pesticide/PCBs	Dieldrin	0.63	UG/KG	The %D between the two pesticide/PCB column checks was >25%.; Surrogate/radiological chemical recovery was below the lower control limit.
B03001	Pesticide/PCBs	Endosulfan Sulfate	0.90	UG/KG	The %D between the two pesticide/PCB column checks was >25%.; Surrogate/radiological chemical recovery was below the lower control limit.
B03001	Pesticide/PCBs	alpha-Chlordane	0.58	UG/KG	The %D between the two pesticide/PCB column checks was >25%.; Surrogate/radiological chemical recovery was below the lower control limit.

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Sample ID	Analysis Type	Parameter	Results	Units	Rejection Explanation
B03002	Explosives	PETN	1.0	MG/KG	Surrogate/radiological chemical recovery data was not present.
B03002	Pesticide/PCBs	4,4'-DDD	0.60	UG/KG	The %D between the two pesticide/PCB column checks was >25%.; Surrogate/radiological chemical recovery was below the lower control limit.
B03003	Explosives	PETN	1.0	MG/KG	Surrogate/radiological chemical recovery data was not present.
B03004	Explosives	PETN	1.0	MG/KG	Surrogate/radiological chemical recovery data was not present.
B03005	Explosives	PETN	1.0	MG/KG	Surrogate/radiological chemical recovery data was not present.
B03007	Volatile Organics	Acetonitrile	110	UG/KG	Continuing calibration %d was >25%.; Initial calibration RRF was <0.05.
B04001	Explosives	PETN	1.0	MG/KG	Surrogate/radiological chemical recovery data was not present.
B04001	Pesticide/PCBs	Dieldrin	2.9	UG/KG	The %D between the two pesticide/PCB column checks was >25%.
B04002	Explosives	PETN	1.0	MG/KG	Surrogate/radiological chemical recovery data was not present.
B04102	Explosives	PETN	1.0	MG/KG	Surrogate/radiological chemical recovery data was not present.
B05001	Explosives	PETN	1.0	MG/KG	Surrogate/radiological chemical recovery data was not present.
B05002	Inorganics	Antimony	1.70	MG/KG	MS recovery was <30%.
B05002	Explosives	PETN	1.0	MG/KG	Surrogate/radiological chemical recovery data was not present.
B06001	Inorganics	Antimony	0.06	MG/KG	MS recovery was <30%.
B06001	Inorganics	Cadmium	0.77	MG/KG	Professional judgment was used to qualify the data.; MS recovery was below the lower control limit.
B06001	Inorganics	Chromium	10.50	MG/KG	Professional judgment was used to qualify the data.; MS recovery was below the lower control limit.
B06001	Inorganics	Cobalt	7.50	MG/KG	Professional judgment was used to qualify the data.; MS recovery was below the lower control limit.
B06001	Inorganics	Copper	13.60	MG/KG	Professional judgment was used to qualify the data.
B06001	Inorganics	Nickel	14.90	MG/KG	CCV recovery was above the upper control limit.; MS recovery was below the lower control limit.

Table E.4-32. Rejected Data Summary
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Sample ID	Analysis Type	Parameter	Results	Units	Rejection Explanation
B06001	Inorganics	Thallium	0.17	MG/KG	Blank had a negative value >5X's the IDL.; MS recovery was below the lower control limit.
B06001	Inorganics	Vanadium	13.30	MG/KG	Professional judgment was used to qualify the data.; MS recovery was below the lower control limit.
B06001	Explosives	PETN	1.0	MG/KG	Surrogate/radiological chemical recovery data was not present.
B06001	Semi-volatile Organics	2,4,5-Trichlorophenol	1800	UG/KG	Surrogate recovery was <10%.
B06001	Semi-volatile Organics	2,4,6-Trichlorophenol	380	UG/KG	Surrogate recovery was <10%.
B06001	Semi-volatile Organics	2,4-Dichlorophenol	380	UG/KG	Surrogate recovery was <10%.
B06001	Semi-volatile Organics	2,4-Dimethylphenol	380	UG/KG	Surrogate recovery was <10%.
B06001	Semi-volatile Organics	2,4-Dinitrophenol	1800	UG/KG	Surrogate recovery was <10%.
B06001	Semi-volatile Organics	2-Chlorophenol	380	UG/KG	Surrogate recovery was <10%.
B06001	Semi-volatile Organics	2-Methylphenol	380	UG/KG	Surrogate recovery was <10%.
B06001	Semi-volatile Organics	2-Nitrophenol	380	UG/KG	Surrogate recovery was <10%.
B06001	Semi-volatile Organics	4,6-Dinitro-2-methylphenol	1800	UG/KG	Surrogate recovery was <10%.
B06001	Semi-volatile Organics	4-Chloro-3-methylphenol	380	UG/KG	Surrogate recovery was <10%.
B06001	Semi-volatile Organics	4-Methylphenol	380	UG/KG	Surrogate recovery was <10%.
B06001	Semi-volatile Organics	4-Nitrophenol	1800	UG/KG	Surrogate recovery was <10%.
B06001	Semi-volatile Organics	Benzoic Acid	1800	UG/KG	Surrogate recovery was <10%.
B06001	Semi-volatile Organics	Benzyl Alcohol	380	UG/KG	Surrogate recovery was <10%.
B06001	Semi-volatile Organics	Pentachlorophenol	1800	UG/KG	Surrogate recovery was <10%.
B06001	Semi-volatile Organics	Phenol	380	UG/KG	Surrogate recovery was <10%.
B06002	Inorganics	Antimony	0.06	MG/KG	MS recovery was <30%.
B06002	Inorganics	Cadmium	0.72	MG/KG	Professional judgment was used to qualify the data.; MS recovery was below the lower control limit.

Table E.4-32. Rejected Data Summary
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Sample ID	Analysis Type	Parameter	Results	Units	Rejection Explanation
B06002	Inorganics	Chromium	12.70	MG/KG	Professional judgment was used to qualify the data.; MS recovery was below the lower control limit.
B06002	Inorganics	Cobalt	7.60	MG/KG	Professional judgment was used to qualify the data.; MS recovery was below the lower control limit.
B06002	Inorganics	Copper	13.00	MG/KG	Professional judgment was used to qualify the data.
B06002	Inorganics	Nickel	18.20	MG/KG	CCV recovery was above the upper control limit.; MS recovery was below the lower control limit.
B06002	Inorganics	Thallium	0.17	MG/KG	Blank had a negative value >5X's the IDL.; MS recovery was below the lower control limit.
B06002	Inorganics	Vanadium	11.60	MG/KG	Professional judgment was used to qualify the data.; MS recovery was below the lower control limit.
B06002	Explosives	PETN	1.0	MG/KG	Surrogate/radiological chemical recovery data was not present.
B06003	Inorganics	Antimony	0.06	MG/KG	MS recovery was <30%.
B06003	Inorganics	Cadmium	0.95	MG/KG	Professional judgment was used to qualify the data.; MS recovery was below the lower control limit.
B06003	Inorganics	Chromium	11.80	MG/KG	Professional judgment was used to qualify the data.; MS recovery was below the lower control limit.
B06003	Inorganics	Cobalt	9.10	MG/KG	Professional judgment was used to qualify the data.; MS recovery was below the lower control limit.
B06003	Inorganics	Copper	19.40	MG/KG	Professional judgment was used to qualify the data.
B06003	Inorganics	Nickel	18.80	MG/KG	CCV recovery was above the upper control limit.; MS recovery was below the lower control limit.
B06003	Inorganics	Thallium	0.17	MG/KG	Blank had a negative value >5X's the IDL.; MS recovery was below the lower control limit.
B06003	Inorganics	Vanadium	11.10	MG/KG	Professional judgment was used to qualify the data.; MS recovery was below the lower control limit.
B06003	Explosives	1,3,5-Trinitrobenzene	0.0100	MG/KG	Analysis holding times were exceeded.; LCS recovery was above the upper control limit.

Table E.4-32. Rejected Data Summary

Sample ID	Analysis Type	Parameter	Results	Units	Rejection Explanation
B06003	Explosives	PETN	1.0	MG/KG	Surrogate/radiological chemical recovery data was not present.
B06003	Explosives	RDX	0.036	MG/KG	Analysis holding times were exceeded.; LCS recovery was above the upper control limit.
B07001	Explosives	PETN	1.0	MG/KG	Surrogate/radiological chemical recovery data was not present.
B07001	Semi-volatile Organics	4-Chloroaniline	380	UG/KG	Initial calibration RRF was <0.05.
B07001	Volatile Organics	Acetonitrile	110	UG/KG	Continuing calibration %d was >25%.; Initial calibration RRF was <0.05.
B07002	Explosives	PETN	1.0	MG/KG	Surrogate/radiological chemical recovery data was not present.
B07002	Semi-volatile Organics	4-Chloroaniline	400	UG/KG	Initial calibration RRF was <0.05.
B07002	Volatile Organics	Acetonitrile	120	UG/KG	Continuing calibration %d was >25%.; Initial calibration RRF was <0.05.
B07003	Explosives	PETN	1.0	MG/KG	Surrogate/radiological chemical recovery data was not present.
B07003	Semi-volatile Organics	4-Chloroaniline	390	UG/KG	Initial calibration RRF was <0.05.
B07003	Volatile Organics	Acetonitrile	120	UG/KG	Continuing calibration %d was >25%.; Initial calibration RRF was <0.05.
B07004	Explosives	PETN	1.0	MG/KG	Surrogate/radiological chemical recovery data was not present.; Analysis holding times were exceeded.
B07101	Explosives	PETN	1.0	MG/KG	Surrogate/radiological chemical recovery data was not present.
B07101	Semi-volatile Organics	4-Chloroaniline	380	UG/KG	Initial calibration RRF was <0.05.
B07101	Volatile Organics	Acetonitrile	110	UG/KG	Continuing calibration %d was >25%.; Initial calibration RRF was <0.05.
B08001	Inorganics	Dypsprosi	2.50	MG/KG	Blank had a negative value >5X's the IDL.
B08001	Inorganics	Europium	0.90	MG/KG	Blank had a negative value >5X's the IDL.
B08001	Inorganics	Lutetium	0.45	MG/KG	Blank had a negative value >5X's the IDL.
B08001	Inorganics	Thulium	2.30	MG/KG	Blank had a negative value >5X's the IDL.
B08001	Explosives	PETN	1.0	MG/KG	Surrogate/radiological chemical recovery data was not present.

Table E.4-32. Rejected Data Summary

Sample ID	Analysis Type	Parameter	Results	Units	Rejection Explanation
B08001	Pesticide/PCBs	Heptachlor	0.33	UG/KG	The %D between the two pesticide/PCB column checks was >25%.
B08002	Inorganics	Antimony	0.06	MG/KG	MS recovery was <30%.
B08002	Inorganics	Dypsprosi	2.70	MG/KG	Blank had a negative value >5X's the IDL.
B08002	Inorganics	Europium	0.97	MG/KG	Blank had a negative value >5X's the IDL.
B08002	Inorganics	Lutetium	0.48	MG/KG	Blank had a negative value >5X's the IDL.
B08002	Inorganics	Thulium	2.40	MG/KG	Blank had a negative value >5X's the IDL.
B08002	Inorganics	Bismuth	0.12	MG/KG	Blank had a negative value >5X's the IDL.
B08002	Explosives	PETN	1.0	MG/KG	Surrogate/radiological chemical recovery data was not present.
B08003	Inorganics	Antimony	0.06	MG/KG	MS recovery was <30%.
B08003	Inorganics	Dypsprosi	2.70	MG/KG	Blank had a negative value >5X's the IDL.
B08003	Inorganics	Europium	0.97	MG/KG	Blank had a negative value >5X's the IDL.
B08003	Inorganics	Lutetium	0.48	MG/KG	Blank had a negative value >5X's the IDL.
B08003	Inorganics	Thulium	2.40	MG/KG	Blank had a negative value >5X's the IDL.
B08003	Inorganics	Bismuth	0.12	MG/KG	Blank had a negative value >5X's the IDL.
B08003	Explosives	PETN	1.0	MG/KG	Surrogate/radiological chemical recovery data was not present.
B09001	Inorganics	Dypsprosi	2.40	MG/KG	Blank had a negative value >5X's the IDL.
B09001	Inorganics	Europium	0.89	MG/KG	Blank had a negative value >5X's the IDL.
B09001	Inorganics	Lutetium	0.44	MG/KG	Blank had a negative value >5X's the IDL.
B09001	Inorganics	Thulium	2.20	MG/KG	Blank had a negative value >5X's the IDL.
B09001	Explosives	PETN	1.0	MG/KG	Surrogate/radiological chemical recovery data was not present.
B09001	Pesticide/PCBs	Endrin Aldehyde	1.7	UG/KG	The %D between the two pesticide/PCB column checks was >25%.; Surrogate/radiological chemical recovery was below the lower control limit.

Table E.4-32. Rejected Data Summary

Sample ID	Analysis Type	Parameter	Results	Units	Rejection Explanation
B09001	Pesticide/PCBs	p,p'-Methoxychlor	1.5	UG/KG	The %D between the two pesticide/PCB column checks was >25%.; Surrogate/radiological chemical recovery was below the lower control limit.
B09002	Inorganics	Antimony	0.06	MG/KG	MS recovery was <30%.
B09002	Inorganics	Dypsprosi	2.60	MG/KG	Blank had a negative value >5X's the IDL.
B09002	Inorganics	Europium	0.95	MG/KG	Blank had a negative value >5X's the IDL.
B09002	Inorganics	Lutetium	0.47	MG/KG	Blank had a negative value >5X's the IDL.
B09002	Inorganics	Thulium	2.40	MG/KG	Blank had a negative value >5X's the IDL.
B09002	Inorganics	Bismuth	0.12	MG/KG	Blank had a negative value >5X's the IDL.
B09002	Explosives	PETN	1.0	MG/KG	Surrogate/radiological chemical recovery data was not present.
B09002	Pesticide/PCBs	alpha-Chlordane	0.56	UG/KG	The %D between the two pesticide/PCB column checks was >25%.
B09003	Inorganics	Antimony	0.06	MG/KG	MS recovery was <30%.
B09003	Inorganics	Dypsprosi	2.80	MG/KG	Blank had a negative value >5X's the IDL.
B09003	Inorganics	Europium	1.00	MG/KG	Blank had a negative value >5X's the IDL.
B09003	Inorganics	Lutetium	0.51	MG/KG	Blank had a negative value >5X's the IDL.
B09003	Inorganics	Thulium	2.50	MG/KG	Blank had a negative value >5X's the IDL.
B09003	Inorganics	Bismuth	0.13	MG/KG	Blank had a negative value >5X's the IDL.
B09003	Explosives	PETN	1.0	MG/KG	Surrogate/radiological chemical recovery data was not present.
B09004	Inorganics	Antimony	0.06	MG/KG	MS recovery was <30%.
B09004	Inorganics	Dypsprosi	2.50	MG/KG	Blank had a negative value >5X's the IDL.
B09004	Inorganics	Europium	0.92	MG/KG	Blank had a negative value >5X's the IDL.
B09004	Inorganics	Lutetium	0.46	MG/KG	Blank had a negative value >5X's the IDL.
B09004	Inorganics	Thulium	2.30	MG/KG	Blank had a negative value >5X's the IDL.
B09004	Inorganics	Bismuth	0.12	MG/KG	Blank had a negative value >5X's the IDL.

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Sample ID	Analysis Type	Parameter	Results	Units	Rejection Explanation
B09004	Explosives	PETN	1.0	MG/KG	Surrogate/radiological chemical recovery data was not present.
B09005	Inorganics	Antimony	0.06	MG/KG	MS recovery was <30%.
B09005	Inorganics	Dypsprosi	2.60	MG/KG	Blank had a negative value >5X's the IDL.
B09005	Inorganics	Europium	0.93	MG/KG	Blank had a negative value >5X's the IDL.
B09005	Inorganics	Lutetium	0.47	MG/KG	Blank had a negative value >5X's the IDL.
B09005	Inorganics	Thulium	2.30	MG/KG	Blank had a negative value >5X's the IDL.
B09005	Inorganics	Bismuth	0.12	MG/KG	Blank had a negative value >5X's the IDL.
B09005	Explosives	PETN	1.0	MG/KG	Surrogate/radiological chemical recovery data was not present.
B09102	Inorganics	Antimony	0.06	MG/KG	MS recovery was <30%.
B09102	Inorganics	Dypsprosi	2.60	MG/KG	Blank had a negative value >5X's the IDL.
B09102	Inorganics	Europium	0.94	MG/KG	Blank had a negative value >5X's the IDL.
B09102	Inorganics	Lutetium	0.47	MG/KG	Blank had a negative value >5X's the IDL.
B09102	Inorganics	Thulium	2.30	MG/KG	Blank had a negative value >5X's the IDL.
B09102	Inorganics	Bismuth	0.12	MG/KG	Blank had a negative value >5X's the IDL.
B09102	Explosives	PETN	1.0	MG/KG	Surrogate/radiological chemical recovery data was not present.
B10001	Inorganics	Dypsprosi	2.50	MG/KG	Blank had a negative value >5X's the IDL.
B10001	Inorganics	Europium	0.92	MG/KG	Blank had a negative value >5X's the IDL.
B10001	Inorganics	Lutetium	0.46	MG/KG	Blank had a negative value >5X's the IDL.
B10001	Inorganics	Thulium	2.30	MG/KG	Blank had a negative value >5X's the IDL.
B10001	Inorganics	Bismuth	0.12	MG/KG	Blank had a negative value >5X's the IDL.
B10001	Explosives	PETN	1.0	MG/KG	Surrogate/radiological chemical recovery data was not present.
B10002	Inorganics	Antimony	0.05	MG/KG	MS recovery was <30%.
B10002	Inorganics	Dypsprosi	2.50	MG/KG	Blank had a negative value >5X's the IDL.
B10002	Inorganics	Europium	0.91	MG/KG	Blank had a negative value >5X's the IDL.

Table E.4-32. Rejected Data Summary

Sample ID	Analysis Type	Parameter	Results	Units	Rejection Explanation
B10002	Inorganics	Lutetium	0.46	MG/KG	Blank had a negative value >5X's the IDL.
B10002	Inorganics	Thulium	2.30	MG/KG	Blank had a negative value >5X's the IDL.
B10002	Inorganics	Bismuth	0.10	MG/KG	Blank had a negative value >5X's the IDL.
B10002	Explosives	PETN	1.0	MG/KG	Surrogate/radiological chemical recovery data was not present.
B10003	Inorganics	Antimony	0.06	MG/KG	MS recovery was <30%.
B10003	Inorganics	Europium	0.92	MG/KG	Blank had a negative value >5X's the IDL.
B10003	Inorganics	Lutetium	0.46	MG/KG	Blank had a negative value >5X's the IDL.
B10003	Inorganics	Thulium	2.30	MG/KG	Blank had a negative value >5X's the IDL.
B10003	Inorganics	Bismuth	0.11	MG/KG	Blank had a negative value >5X's the IDL.
B10003	Explosives	PETN	1.0	MG/KG	Surrogate/radiological chemical recovery data was not present.
B11001	Inorganics	Antimony	0.06	MG/KG	MS recovery was <30%.
B11001	Inorganics	Dypsprosi	2.50	MG/KG	Blank had a negative value >5X's the IDL.
B11001	Inorganics	Europium	0.93	MG/KG	Blank had a negative value >5X's the IDL.
B11001	Inorganics	Lutetium	0.46	MG/KG	Blank had a negative value >5X's the IDL.
B11001	Inorganics	Thulium	2.30	MG/KG	Blank had a negative value >5X's the IDL.
B11001	Inorganics	Bismuth	0.12	MG/KG	Blank had a negative value >5X's the IDL.
B11001	Explosives	PETN	1.0	MG/KG	Surrogate/radiological chemical recovery data was not present.
B11001	Pesticide/PCBs	Endrin Aldehyde	0.47	UG/KG	The %D between the two pesticide/PCB column checks was >25%.; Surrogate/radiological chemical recovery was below the lower control limit.
B11001	Pesticide/PCBs	alpha-Chlordane	1.6	UG/KG	The %D between the two pesticide/PCB column checks was >25%.; Surrogate/radiological chemical recovery was below the lower control limit.
B11002	Inorganics	Antimony	0.06	MG/KG	MS recovery was <30%.
B11002	Inorganics	Dypsprosi	2.60	MG/KG	Blank had a negative value >5X's the IDL.

Table E.4-32. Rejected Data Summary

Sample ID	Analysis Type	Parameter	Results	Units	Rejection Explanation
B11002	Inorganics	Europium	0.94	MG/KG	Blank had a negative value >5X's the IDL.
B11002	Inorganics	Lutetium	0.47	MG/KG	Blank had a negative value >5X's the IDL.
B11002	Inorganics	Thulium	2.40	MG/KG	Blank had a negative value >5X's the IDL.
B11002	Inorganics	Bismuth	0.12	MG/KG	Blank had a negative value >5X's the IDL.
B11002	Explosives	PETN	1.0	MG/KG	Surrogate/radiological chemical recovery data was not present.
B11003	Inorganics	Antimony	0.06	MG/KG	MS recovery was <30%.
B11003	Inorganics	Dypsprosi	2.50	MG/KG	Blank had a negative value >5X's the IDL.
B11003	Inorganics	Europium	0.93	MG/KG	Blank had a negative value >5X's the IDL.
B11003	Inorganics	Lutetium	0.46	MG/KG	Blank had a negative value >5X's the IDL.
B11003	Inorganics	Thulium	2.30	MG/KG	Blank had a negative value >5X's the IDL.
B11003	Inorganics	Bismuth	0.12	MG/KG	Blank had a negative value >5X's the IDL.
B11003	Explosives	PETN	1.0	MG/KG	Surrogate/radiological chemical recovery data was not present.
B11004	Inorganics	Antimony	0.06	MG/KG	MS recovery was <30%.
B11004	Inorganics	Dypsprosi	2.70	MG/KG	Blank had a negative value >5X's the IDL.
B11004	Inorganics	Europium	0.98	MG/KG	Blank had a negative value >5X's the IDL.
B11004	Inorganics	Lutetium	0.49	MG/KG	Blank had a negative value >5X's the IDL.
B11004	Inorganics	Thulium	2.50	MG/KG	Blank had a negative value >5X's the IDL.
B11004	Inorganics	Bismuth	0.12	MG/KG	Blank had a negative value >5X's the IDL.
B11004	Explosives	PETN	1.0	MG/KG	Surrogate/radiological chemical recovery data was not present.
B11102	Inorganics	Antimony	0.06	MG/KG	MS recovery was <30%.
B11102	Inorganics	Dypsprosi	2.50	MG/KG	Blank had a negative value >5X's the IDL.
B11102	Inorganics	Europium	0.92	MG/KG	Blank had a negative value >5X's the IDL.
B11102	Inorganics	Lutetium	0.46	MG/KG	Blank had a negative value >5X's the IDL.
B11102	Inorganics	Thulium	2.30	MG/KG	Blank had a negative value >5X's the IDL.

Table E.4-32. Rejected Data Summary

Sample ID	Analysis Type	Parameter	Results	Units	Rejection Explanation
B11102	Inorganics	Bismuth	0.12	MG/KG	Blank had a negative value >5X's the IDL.
B11102	Explosives	PETN	1.0	MG/KG	Surrogate/radiological chemical recovery data was not present.
B11102	Pesticide/PCBs	Endrin Aldehyde	0.41	UG/KG	The %D between the two pesticide/PCB column checks was >25%.; Surrogate/radiological chemical recovery was below the lower control limit.
B12001	Inorganics	Europium	0.84	MG/KG	Blank had a negative value >5X's the IDL.
B12001	Inorganics	Lutetium	0.42	MG/KG	Blank had a negative value >5X's the IDL.
B12001	Inorganics	Thulium	2.10	MG/KG	Blank had a negative value >5X's the IDL.
B12001	Explosives	PETN	1.0	MG/KG	Surrogate/radiological chemical recovery data was not present.
B12002	Inorganics	Antimony	0.06	MG/KG	MS recovery was <30%.
B12002	Inorganics	Dypsprosi	2.70	MG/KG	Blank had a negative value >5X's the IDL.
B12002	Inorganics	Europium	0.97	MG/KG	Blank had a negative value >5X's the IDL.
B12002	Inorganics	Lutetium	0.48	MG/KG	Blank had a negative value >5X's the IDL.
B12002	Inorganics	Thulium	2.40	MG/KG	Blank had a negative value >5X's the IDL.
B12002	Inorganics	Bismuth	0.12	MG/KG	Blank had a negative value >5X's the IDL.
B12002	Explosives	PETN	1.0	MG/KG	Surrogate/radiological chemical recovery data was not present.
B12003	Inorganics	Antimony	0.06	MG/KG	MS recovery was <30%.
B12003	Inorganics	Dypsprosi	2.50	MG/KG	Blank had a negative value >5X's the IDL.
B12003	Inorganics	Europium	0.93	MG/KG	Blank had a negative value >5X's the IDL.
B12003	Inorganics	Lutetium	0.46	MG/KG	Blank had a negative value >5X's the IDL.
B12003	Inorganics	Thulium	2.30	MG/KG	Blank had a negative value >5X's the IDL.
B12003	Inorganics	Bismuth	0.12	MG/KG	Blank had a negative value >5X's the IDL.
B12003	Explosives	PETN	1.0	MG/KG	Surrogate/radiological chemical recovery data was not present.
B13001	Explosives	1,3,5-Trinitrobenzene	1.5	MG/KG	Initial calibration RSD was >30%.

Table E.4-32. Rejected Data Summary

Sample ID	Analysis Type	Parameter	Results	Units	Rejection Explanation
B13001	Explosives	PETN	1.0	MG/KG	Surrogate/radiological chemical recovery data was not present.; Analysis holding times were exceeded.
B13001	Semi-volatile Organics	4-Chloroaniline	360	UG/KG	Initial calibration RRF was <0.05.
B13001	Volatile Organics	Acetonitrile	110	UG/KG	Continuing calibration %d was >25%.; Initial calibration RRF was <0.05.
B13002	Explosives	1,3,5-Trinitrobenzene	1.5	MG/KG	Initial calibration RSD was >30%.
B13002	Explosives	PETN	1.0	MG/KG	Surrogate/radiological chemical recovery data was not present.; Analysis holding times were exceeded.
B13002	Semi-volatile Organics	4-Chloroaniline	390	UG/KG	Initial calibration RRF was <0.05.
B13002	Volatile Organics	Acetonitrile	120	UG/KG	Continuing calibration %d was >25%.; Initial calibration RRF was <0.05.
B13003	Explosives	1,3,5-Trinitrobenzene	1.5	MG/KG	Initial calibration RSD was >30%.
B13003	Explosives	PETN	1.0	MG/KG	Surrogate/radiological chemical recovery data was not present.; Analysis holding times were exceeded.
B13003	Semi-volatile Organics	4-Chloroaniline	390	UG/KG	Initial calibration RRF was <0.05.
B13003	Volatile Organics	Acetonitrile	120	UG/KG	Continuing calibration %d was >25%.; Initial calibration RRF was <0.05.
B13004	Inorganics	Antimony	1.90	MG/KG	MS recovery was <30%.
B13004	Explosives	1,3,5-Trinitrobenzene	1.5	MG/KG	Initial calibration RSD was >30%.
B13004	Explosives	PETN	1.0	MG/KG	Surrogate/radiological chemical recovery data was not present.; Analysis holding times were exceeded.
B13004	Semi-volatile Organics	4-Chloroaniline	410	UG/KG	Initial calibration RRF was <0.05.
B13004	Volatile Organics	Acetonitrile	120	UG/KG	Continuing calibration %d was >25%.; Initial calibration RRF was <0.05.
B13005	Explosives	1,3,5-Trinitrobenzene	1.5	MG/KG	Initial calibration RSD was >30%.
B13005	Explosives	PETN	1.0	MG/KG	Surrogate/radiological chemical recovery data was not present.; Analysis holding times were exceeded.

Table E.4-32. Rejected Data Summary

Sample ID	Analysis Type	Parameter	Results	Units	Rejection Explanation
B13005	Semi-volatile Organics	4-Chloroaniline	380	UG/KG	Initial calibration RRF was <0.05.
B13005	Volatile Organics	Acetonitrile	110	UG/KG	Initial calibration RRF was <0.05.; Continuing calibration %d was >25%.
B13006	Volatile Organics	Acetonitrile	110	UG/KG	Initial calibration RRF was <0.05.; Continuing calibration %d was >25%.
B14001	Explosives	PETN	1.0	MG/KG	Surrogate/radiological chemical recovery data was not present.
B14001	Semi-volatile Organics	4-Chloroaniline	370	UG/KG	Initial calibration RRF was <0.05.
B14001	Volatile Organics	Acetonitrile	110	UG/KG	Continuing calibration %d was >25%.; Initial calibration RRF was <0.05.
B14002	Explosives	PETN	1.0	MG/KG	Surrogate/radiological chemical recovery data was not present.
B14002	Semi-volatile Organics	4-Chloroaniline	360	UG/KG	Initial calibration RRF was <0.05.
B14002	Volatile Organics	Acetonitrile	110	UG/KG	Continuing calibration %d was >25%.; Initial calibration RRF was <0.05.
B14003	Volatile Organics	Acetonitrile	120	UG/KG	Initial calibration RRF was <0.05.; Continuing calibration %d was >25%.
B14004	Explosives	PETN	1.0	MG/KG	Surrogate/radiological chemical recovery data was not present.
B14004	Semi-volatile Organics	4-Chloroaniline	430	UG/KG	Initial calibration RRF was <0.05.
B14004	Volatile Organics	Acetonitrile	130	UG/KG	Continuing calibration %d was >25%.; Initial calibration RRF was <0.05.
B14104	Explosives	PETN	1.0	MG/KG	Surrogate/radiological chemical recovery data was not present.
B14104	Semi-volatile Organics	4-Chloroaniline	390	UG/KG	Initial calibration RRF was <0.05.
B14104	Volatile Organics	Acetonitrile	120	UG/KG	Continuing calibration %d was >25%.; Initial calibration RRF was <0.05.
B15001	Inorganics	Antimony	0.15	MG/KG	MS recovery was <30%.; Concentration of the contaminant was detected at a level below the CRQL.
B15001	Inorganics	Cadmium	1.10	MG/KG	Professional judgment was used to qualify the data.; MS recovery was below the lower control limit.

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Sample ID	Analysis Type	Parameter	Results	Units	Rejection Explanation
B15001	Inorganics	Chromium	11.80	MG/KG	Professional judgment was used to qualify the data.; MS recovery was below the lower control limit.
B15001	Inorganics	Cobalt	7.00	MG/KG	Professional judgment was used to qualify the data.; MS recovery was below the lower control limit.
B15001	Inorganics	Copper	18.80	MG/KG	Professional judgment was used to qualify the data.
B15001	Inorganics	Nickel	14.60	MG/KG	CCV recovery was above the upper control limit.; MS recovery was below the lower control limit.
B15001	Inorganics	Thallium	0.23	MG/KG	Blank had a negative value >5X's the IDL.; MS recovery was below the lower control limit.
B15001	Inorganics	Vanadium	15.40	MG/KG	Professional judgment was used to qualify the data.; MS recovery was below the lower control limit.
B15001	Explosives	PETN	1.0	MG/KG	Surrogate/radiological chemical recovery data was not present.
B15001	Pesticide/PCBs	Endosulfan Sulfate	0.36	UG/KG	The %D between the two pesticide/PCB column checks was >25%.
B15001	Pesticide/PCBs	alpha-Chlordane	1.4	UG/KG	The %D between the two pesticide/PCB column checks was >25%.
B15001	Pesticide/PCBs	delta-BHC	0.24	UG/KG	The %D between the two pesticide/PCB column checks was >25%.
B15002	Inorganics	Antimony	0.14	MG/KG	MS recovery was <30%.; Concentration of the contaminant was detected at a level below the CRQL.
B15002	Inorganics	Cadmium	1.40	MG/KG	Professional judgment was used to qualify the data.; MS recovery was below the lower control limit.
B15002	Inorganics	Chromium	19.70	MG/KG	Professional judgment was used to qualify the data.; MS recovery was below the lower control limit.
B15002	Inorganics	Cobalt	11.90	MG/KG	Professional judgment was used to qualify the data.; MS recovery was below the lower control limit.
B15002	Inorganics	Nickel	25.90	MG/KG	CCV recovery was above the upper control limit.; MS recovery was below the lower control limit.
B15002	Inorganics	Thallium	0.35	MG/KG	Blank had a negative value >5X's the IDL.; MS recovery was below the lower control limit.

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Sample ID	Analysis Type	Parameter	Results	Units	Rejection Explanation
B15002	Inorganics	Vanadium	26.20	MG/KG	Professional judgment was used to qualify the data.; MS recovery was below the lower control limit.
B15002	Explosives	PETN	1.0	MG/KG	Surrogate/radiological chemical recovery data was not present.
B15002	Pesticide/PCBs	alpha-Chlordane	1.2	UG/KG	The %D between the two pesticide/PCB column checks was >25%.
B15003	Inorganics	Antimony	0.41	MG/KG	MS recovery was <30%.
B15003	Inorganics	Cadmium	0.45	MG/KG	Professional judgment was used to qualify the data.; MS recovery was below the lower control limit.
B15003	Inorganics	Chromium	21.10	MG/KG	Professional judgment was used to qualify the data.; MS recovery was below the lower control limit.
B15003	Inorganics	Cobalt	15.40	MG/KG	Professional judgment was used to qualify the data.; MS recovery was below the lower control limit.
B15003	Inorganics	Copper	29.40	MG/KG	Professional judgment was used to qualify the data.
B15003	Inorganics	Thallium	1.20	MG/KG	Blank had a negative value >5X's the IDL.; MS recovery was below the lower control limit.
B15003	Inorganics	Vanadium	29.10	MG/KG	Professional judgment was used to qualify the data.; MS recovery was below the lower control limit.
B15003	Explosives	PETN	1.0	MG/KG	Surrogate/radiological chemical recovery data was not present.
B15004	Inorganics	Antimony	0.30	MG/KG	Concentration of the contaminant was detected at a level below the CRQL.; MS recovery was <30%.
B15004	Inorganics	Cadmium	1.70	MG/KG	Professional judgment was used to qualify the data.; MS recovery was below the lower control limit.
B15004	Inorganics	Chromium	29.30	MG/KG	Professional judgment was used to qualify the data.; MS recovery was below the lower control limit.
B15004	Inorganics	Cobalt	18.50	MG/KG	Professional judgment was used to qualify the data.; MS recovery was below the lower control limit.
B15004	Inorganics	Copper	39.10	MG/KG	Professional judgment was used to qualify the data.
B15004	Inorganics	Nickel	43.50	MG/KG	CCV recovery was above the upper control limit.

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Sample ID	Analysis Type	Parameter	Results	Units	Rejection Explanation
B15004	Inorganics	Thallium	0.37	MG/KG	Blank had a negative value >5X's the IDL.; MS recovery was below the lower control limit.
B15004	Inorganics	Vanadium	36.40	MG/KG	Professional judgment was used to qualify the data.; MS recovery was below the lower control limit.
B15004	Explosives	PETN	1.0	MG/KG	Surrogate/radiological chemical recovery data was not present.
B15101	Inorganics	Antimony	0.13	MG/KG	MS recovery was <30%.; Concentration of the contaminant was detected at a level below the CRQL.
B15101	Inorganics	Cadmium	0.87	MG/KG	Professional judgment was used to qualify the data.
B15101	Inorganics	Chromium	9.40	MG/KG	Professional judgment was used to qualify the data.; MS recovery was below the lower control limit.
B15101	Inorganics	Cobalt	6.60	MG/KG	Professional judgment was used to qualify the data.; MS recovery was below the lower control limit.
B15101	Inorganics	Copper	16.40	MG/KG	Professional judgment was used to qualify the data.
B15101	Inorganics	Nickel	12.90	MG/KG	CCV recovery was above the upper control limit.; MS recovery was below the lower control limit.
B15101	Inorganics	Thallium	0.20	MG/KG	Blank had a negative value >5X's the IDL.
B15101	Inorganics	Vanadium	12.10	MG/KG	Professional judgment was used to qualify the data.
B15101	Explosives	PETN	1.0	MG/KG	Surrogate/radiological chemical recovery data was not present.
B15101	Pesticide/PCBs	alpha-Chlordane	0.88	UG/KG	The %D between the two pesticide/PCB column checks was >25%.
B15104	Inorganics	Antimony	0.13	MG/KG	MS recovery was <30%.
B15104	Inorganics	Cadmium	2.00	MG/KG	Professional judgment was used to qualify the data.; MS recovery was below the lower control limit.
B15104	Inorganics	Chromium	26.40	MG/KG	Professional judgment was used to qualify the data.; MS recovery was below the lower control limit.
B15104	Inorganics	Cobalt	20.80	MG/KG	Professional judgment was used to qualify the data.; MS recovery was below the lower control limit.
B15104	Inorganics	Copper	36.30	MG/KG	Professional judgment was used to qualify the data.

Table E.4-32. Rejected Data Summary

Sample ID	Analysis Type	Parameter	Results	Units	Rejection Explanation
B15104	Inorganics	Nickel	42.20	MG/KG	CCV recovery was above the upper control limit.; MS recovery was below the lower control limit.
B15104	Inorganics	Thallium	0.38	MG/KG	Blank had a negative value >5X's the IDL.; MS recovery was below the lower control limit.
B15104	Inorganics	Vanadium	27.70	MG/KG	Professional judgment was used to qualify the data.; MS recovery was below the lower control limit.
B15104	Explosives	PETN	1.0	MG/KG	Surrogate/radiological chemical recovery data was not present.
B15104	Semi-volatile Organics	2,4,5-Trichlorophenol	4000	UG/KG	Surrogate recovery was <10%.
B15104	Semi-volatile Organics	2,4,6-Trichlorophenol	830	UG/KG	Surrogate recovery was <10%.
B15104	Semi-volatile Organics	2,4-Dichlorophenol	830	UG/KG	Surrogate recovery was <10%.
B15104	Semi-volatile Organics	2,4-Dimethylphenol	830	UG/KG	Surrogate recovery was <10%.
B15104	Semi-volatile Organics	2,4-Dinitrophenol	4000	UG/KG	Surrogate recovery was <10%.
B15104	Semi-volatile Organics	2-Chlorophenol	830	UG/KG	Surrogate recovery was <10%.
B15104	Semi-volatile Organics	2-Methylphenol	830	UG/KG	Surrogate recovery was <10%.
B15104	Semi-volatile Organics	2-Nitrophenol	830	UG/KG	Surrogate recovery was <10%.
B15104	Semi-volatile Organics	4,6-Dinitro-2-methylphenol	4000	UG/KG	Surrogate recovery was <10%.
B15104	Semi-volatile Organics	4-Chloro-3-methylphenol	830	UG/KG	Surrogate recovery was <10%.
B15104	Semi-volatile Organics	4-Methylphenol	830	UG/KG	Surrogate recovery was <10%.
B15104	Semi-volatile Organics	4-Nitrophenol	4000	UG/KG	Surrogate recovery was <10%.
B15104	Semi-volatile Organics	Benzoic Acid	4000	UG/KG	Surrogate recovery was <10%.
B15104	Semi-volatile Organics	Benzyl Alcohol	830	UG/KG	Surrogate recovery was <10%.
B15104	Semi-volatile Organics	Pentachlorophenol	4000	UG/KG	Surrogate recovery was <10%.

Table E.4-32. Rejected Data Summary

Sample ID	Analysis Type	Parameter	Results	Units	Rejection Explanation
B15104	Semi-volatile Organics	Phenol	830	UG/KG	Surrogate recovery was <10%.
B16002	Volatile Organics	Acetonitrile	110	UG/KG	Initial calibration RRF was <0.05.; Continuing calibration %d was >25%.
B17001	Explosives	PETN	1.0	MG/KG	Surrogate/radiological chemical recovery data was not present.
B17001	Pesticide/PCBs	Endrin Aldehyde	9.0	UG/KG	The %D between the two pesticide/PCB column checks was >25%.
B17002	Inorganics	Gadoliniu	7.20	MG/KG	MS recovery was <30%.
B17002	Explosives	PETN	1.0	MG/KG	Surrogate/radiological chemical recovery data was not present.
B17002	Pesticide/PCBs	Endrin Aldehyde	1.9	UG/KG	The %D between the two pesticide/PCB column checks was >25%.
B18001	Explosives	PETN	1.0	MG/KG	Surrogate/radiological chemical recovery data was not present.
B18002	Explosives	PETN	1.0	MG/KG	Surrogate/radiological chemical recovery data was not present.
B19001	Inorganics	Gadoliniu	6.30	MG/KG	MS recovery was <30%.
B19001	Explosives	PETN	1.0	MG/KG	Surrogate/radiological chemical recovery data was not present.
B19002	Inorganics	Gadoliniu	7.00	MG/KG	MS recovery was <30%.
B19002	Explosives	PETN	1.0	MG/KG	Surrogate/radiological chemical recovery data was not present.
B19002	Pesticide/PCBs	alpha-Chlordane	0.67	UG/KG	Surrogate/radiological chemical recovery was below the lower control limit.; The %D between the two pesticide/PCB column checks was >25%.
B20001	Inorganics	Gadoliniu	6.20	MG/KG	MS recovery was <30%.
B20001	Explosives	PETN	1.0	MG/KG	Surrogate/radiological chemical recovery data was not present.
B20002	Explosives	PETN	1.0	MG/KG	Surrogate/radiological chemical recovery data was not present.
BB2001	Explosives	PETN	1.0	MG/KG	Surrogate/radiological chemical recovery data was not present.
BB2101	Explosives	PETN	1.0	MG/KG	Surrogate/radiological chemical recovery data was not present.
BB3001	Explosives	PETN	1.0	MG/KG	Surrogate/radiological chemical recovery data was not present.
BB4001	Explosives	PETN	1.0	MG/KG	Surrogate/radiological chemical recovery data was not present.
BB5001	Explosives	PETN	1.0	MG/KG	Surrogate/radiological chemical recovery data was not present.

Table E.4-32. Rejected Data Summary

Sample ID	Analysis Type	Parameter	Results	Units	Rejection Explanation
BB6001	Explosives	PETN	1.0	MG/KG	Surrogate/radiological chemical recovery data was not present.
BB7001	Explosives	PETN	1.0	MG/KG	Surrogate/radiological chemical recovery data was not present.
S01001	Explosives	PETN	1.0	UG/L	Surrogate/radiological chemical recovery data was not present.
S01101	Explosives	PETN	1.0	UG/L	Surrogate/radiological chemical recovery data was not present.
S02001	Explosives	PETN	1.0	UG/L	Surrogate/radiological chemical recovery data was not present.
W03001	Explosives	PETN	1.0	UG/L	Surrogate/radiological chemical recovery data was not present.; Analysis holding times were exceeded.
W11001	Inorganics	Chromium	0.5	UG/L	Blank had a negative value >5X's the IDL.
W11001	Inorganics	Bismuth	2.0	UG/L	Blank had a negative value >5X's the IDL.
W11001	Explosives	PETN	1.0	UG/L	Surrogate/radiological chemical recovery data was not present.
W13001	Explosives	PETN	1.0	UG/L	Surrogate/radiological chemical recovery data was not present.
W13101	Inorganics	Cyanide	20.0	UG/L	Samples were not preserved properly.; Professional judgment was used to qualify the data.
W13101	Explosives	PETN	1.0	UG/L	Surrogate/radiological chemical recovery data was not present.
W14001	Explosives	PETN	1.0	UG/L	Surrogate/radiological chemical recovery data was not present.
B39801	Explosives	PETN	1.0	MG/KG	Surrogate/radiological chemical recovery data was not present.; Professional judgment was used to qualify the data.
B39901	Explosives	PETN	1.0	MG/KG	Surrogate/radiological chemical recovery data was not present.; Professional judgment was used to qualify the data.
B40001	Explosives	PETN	1.0	MG/KG	Surrogate/radiological chemical recovery data was not present.; Analysis holding times were exceeded.
B40002	Explosives	PETN	1.0	MG/KG	Surrogate/radiological chemical recovery data was not present.; Analysis holding times were exceeded.
B40101	Explosives	PETN	1.0	MG/KG	Surrogate/radiological chemical recovery data was not present.; Professional judgment was used to qualify the data.
B40102	Explosives	PETN	1.0	MG/KG	Surrogate/radiological chemical recovery data was not present.; Professional judgment was used to qualify the data.

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Sample ID	Analysis Type	Parameter	Results	Units	Rejection Explanation
B40201	Explosives	PETN	1.0	MG/KG	Surrogate/radiological chemical recovery data was not present.; Analysis holding times were exceeded.
B40202	Explosives	PETN	1.0	MG/KG	Surrogate/radiological chemical recovery data was not present.; Analysis holding times were exceeded.
B40301	Inorganics	Antimony	2.00	MG/KG	MS recovery was <30%.
B40301	Explosives	PETN	1.0	MG/KG	Surrogate/radiological chemical recovery data was not present.; Analysis holding times were exceeded.
B40302	Explosives	PETN	1.0	MG/KG	Surrogate/radiological chemical recovery data was not present.; Analysis holding times were exceeded.
B40311	Inorganics	Antimony	2.10	MG/KG	MS recovery was <30%.
B40311	Explosives	PETN	1.0	MG/KG	Surrogate/radiological chemical recovery data was not present.; Analysis holding times were exceeded.
B40401	Inorganics	Antimony	1.90	MG/KG	MS recovery was <30%.
B40401	Explosives	PETN	1.0	MG/KG	Surrogate/radiological chemical recovery data was not present.; Analysis holding times were exceeded.
B40401	Pesticide/PCBs	Endrin	2.0	UG/KG	The %D between the two pesticide/PCB column checks was >25%.
B40402	Explosives	PETN	1.0	MG/KG	Surrogate/radiological chemical recovery data was not present.; Analysis holding times were exceeded.
B40412	Explosives	PETN	1.0	MG/KG	Surrogate/radiological chemical recovery data was not present.; Analysis holding times were exceeded.
B40501	Explosives	PETN	1.0	MG/KG	Surrogate/radiological chemical recovery data was not present.; Professional judgment was used to qualify the data.
B40502	Explosives	PETN	1.0	MG/KG	Surrogate/radiological chemical recovery data was not present.; Professional judgment was used to qualify the data.
B40601	Explosives	PETN	1.0	MG/KG	Surrogate/radiological chemical recovery data was not present.; Professional judgment was used to qualify the data.
B40602	Explosives	PETN	1.0	MG/KG	Surrogate/radiological chemical recovery data was not present.

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Sample ID	Analysis Type	Parameter	Results	Units	Rejection Explanation
B40701	Explosives	PETN	1.0	MG/KG	Surrogate/radiological chemical recovery data was not present.; Professional judgment was used to qualify the data.
B40701	Pesticide/PCBs	4,4'-DDD	0.22	UG/KG	The %D between the two pesticide/PCB column checks was >25%.
B40702	Explosives	PETN	1.0	MG/KG	Surrogate/radiological chemical recovery data was not present.; Professional judgment was used to qualify the data.
B40801	Explosives	PETN	1.0	MG/KG	Surrogate/radiological chemical recovery data was not present.; Professional judgment was used to qualify the data.
B40802	Explosives	PETN	1.0	MG/KG	Surrogate/radiological chemical recovery data was not present.; Professional judgment was used to qualify the data.
B40802	GRPC	Sr-90	-0.47	PCI/G	Radiological chemical recovery was <20%.
B40811	Explosives	PETN	1.0	MG/KG	Surrogate/radiological chemical recovery data was not present.; Professional judgment was used to qualify the data.
B40901	Inorganics	Antimony	1.90	MG/KG	MS recovery was <30%.
B40901	Explosives	PETN	1.0	MG/KG	Surrogate/radiological chemical recovery data was not present.; Analysis holding times were exceeded.
B40902	Explosives	PETN	1.0	MG/KG	Surrogate/radiological chemical recovery data was not present.; Analysis holding times were exceeded.
B41001	Inorganics	Thallium	0.68	MG/KG	Blank had a negative value >5X's the IDL.
B41001	Explosives	PETN	1.0	MG/KG	Surrogate/radiological chemical recovery data was not present.
B41002	Inorganics	Antimony	0.24	MG/KG	MS recovery was <30%.
B41002	Inorganics	Thallium	0.73	MG/KG	Blank had a negative value >5X's the IDL.
B41002	Explosives	PETN	1.0	MG/KG	Surrogate/radiological chemical recovery data was not present.
B41012	Inorganics	Thallium	0.73	MG/KG	Blank had a negative value >5X's the IDL.
B41012	Explosives	PETN	1.0	MG/KG	Surrogate/radiological chemical recovery data was not present.
B41101	Explosives	PETN	1.0	MG/KG	Surrogate/radiological chemical recovery data was not present.; Professional judgment was used to qualify the data.
SD0101	Inorganics	Antimony	0.25	MG/KG	MS recovery was <30%.

Table E.4-32. Rejected Data Summary

Sample ID	Analysis Type	Parameter	Results	Units	Rejection Explanation
SD0101	Inorganics	Thallium	0.74	MG/KG	Blank had a negative value >5X's the IDL.
SD0101	Explosives	PETN	1.0	MG/KG	Surrogate/radiological chemical recovery data was not present.
SD0201	Inorganics	Antimony	0.24	MG/KG	MS recovery was <30%.
SD0201	Inorganics	Thallium	0.73	MG/KG	Blank had a negative value >5X's the IDL.
SD0201	Explosives	PETN	1.0	MG/KG	Surrogate/radiological chemical recovery data was not present.
SD0301	Inorganics	Thallium	0.77	MG/KG	Blank had a negative value >5X's the IDL.
SD0301	Explosives	PETN	1.0	MG/KG	Surrogate/radiological chemical recovery data was not present.
SD0401	Inorganics	Thallium	0.74	MG/KG	Blank had a negative value >5X's the IDL.
SD0401	Explosives	PETN	1.0	MG/KG	Surrogate/radiological chemical recovery data was not present.
SD0401	Pesticide/PCBs	4,4'-DDE	0.33	UG/KG	The %D between the two pesticide/PCB column checks was >25%.
SD0501	Inorganics	Thallium	0.70	MG/KG	Blank had a negative value >5X's the IDL.
SD0501	Explosives	PETN	1.0	MG/KG	Surrogate/radiological chemical recovery data was not present.
SD0601	Explosives	1,3,5-Trinitrobenzene	1.5	MG/KG	Initial calibration RSD was >30%.
SD0601	Explosives	PETN	1.0	MG/KG	Surrogate/radiological chemical recovery data was not present.
SD0601	Pesticide/PCBs	Aldrin	0.099	UG/KG	The %D between the two pesticide/PCB column checks was >25%.
SD0701	Explosives	PETN	1.0	MG/KG	Surrogate/radiological chemical recovery data was not present.
SD0801	Inorganics	Antimony	1.90	MG/KG	MS recovery was <30%.
SD0801	Explosives	PETN	1.0	MG/KG	Surrogate/radiological chemical recovery data was not present.
SD0901	Inorganics	Dypsprosi	2.80	MG/KG	Blank had a negative value >5X's the IDL.
SD0901	Inorganics	Europium	1.00	MG/KG	Blank had a negative value >5X's the IDL.
SD0901	Inorganics	Lutetium	0.52	MG/KG	Blank had a negative value >5X's the IDL.
SD0901	Inorganics	Thulium	2.60	MG/KG	Blank had a negative value >5X's the IDL.
SD0901	Explosives	PETN	1.0	MG/KG	Surrogate/radiological chemical recovery data was not present.
SD0901	Pesticide/PCBs	Endrin Aldehyde	2.3	UG/KG	The %D between the two pesticide/PCB column checks was >25%.

Table E.4-32. Rejected Data Summary

Sample ID	Analysis Type	Parameter	Results	Units	Rejection Explanation
SD0911	Inorganics	Antimony	0.28	MG/KG	MS recovery was <30%.
SD0911	Inorganics	Thallium	0.85	MG/KG	Blank had a negative value >5X's the IDL.
SD0911	Inorganics	Dypsprosi	3.10	MG/KG	Blank had a negative value >5X's the IDL.
SD0911	Inorganics	Europium	1.10	MG/KG	Blank had a negative value >5X's the IDL.
SD0911	Inorganics	Lutetium	0.57	MG/KG	Blank had a negative value >5X's the IDL.
SD0911	Inorganics	Thulium	2.80	MG/KG	Blank had a negative value >5X's the IDL.
SD0911	Explosives	PETN	1.0	MG/KG	Surrogate/radiological chemical recovery data was not present.
SD0911	Pesticide/PCBs	Endrin Aldehyde	4.0	UG/KG	The %D between the two pesticide/PCB column checks was >25%.
SD1001	Inorganics	Antimony	0.25	MG/KG	MS recovery was <30%.
SD1001	Inorganics	Thallium	0.74	MG/KG	Blank had a negative value >5X's the IDL.
SD1001	Inorganics	Dypsprosi	2.70	MG/KG	Blank had a negative value >5X's the IDL.
SD1001	Inorganics	Europium	0.99	MG/KG	Blank had a negative value >5X's the IDL.
SD1001	Inorganics	Lutetium	0.50	MG/KG	Blank had a negative value >5X's the IDL.
SD1001	Inorganics	Thulium	2.50	MG/KG	Blank had a negative value >5X's the IDL.
SD1001	Explosives	PETN	1.0	MG/KG	Surrogate/radiological chemical recovery data was not present.
SD1101	Inorganics	Antimony	0.26	MG/KG	MS recovery was <30%.
SD1101	Inorganics	Thallium	0.78	MG/KG	Blank had a negative value >5X's the IDL.
SD1101	Inorganics	Europium	1.00	MG/KG	Blank had a negative value >5X's the IDL.
SD1101	Inorganics	Lutetium	0.52	MG/KG	Blank had a negative value >5X's the IDL.
SD1101	Inorganics	Thulium	2.60	MG/KG	Blank had a negative value >5X's the IDL.
SD1101	Explosives	PETN	1.0	MG/KG	Surrogate/radiological chemical recovery data was not present.
SD1201	Explosives	1,3,5-Trinitrobenzene	1.5	MG/KG	Initial calibration RSD was >30%.
SD1201	Explosives	PETN	1.0	MG/KG	Surrogate/radiological chemical recovery data was not present.
SD1301	Explosives	1,3,5-Trinitrobenzene	1.5	MG/KG	Initial calibration RSD was >30%.

Table E.4-32. Rejected Data Summary

Sample ID	Analysis Type	Parameter	Results	Units	Rejection Explanation
SD1301	Explosives	PETN	1.0	MG/KG	Surrogate/radiological chemical recovery data was not present.
SD1311	Explosives	1,3,5-Trinitrobenzene	1.5	MG/KG	Initial calibration RSD was >30%.
SD1311	Explosives	PETN	1.0	MG/KG	Surrogate/radiological chemical recovery data was not present.
SD1401	Explosives	1,3,5-Trinitrobenzene	1.5	MG/KG	Initial calibration RSD was >30%.
SD1401	Explosives	PETN	1.0	MG/KG	Surrogate/radiological chemical recovery data was not present.
SD1401	Pesticide/PCBs	Endosulfan I	0.20	UG/KG	The %D between the two pesticide/PCB column checks was >25%.
SD1501	Explosives	PETN	1.0	MG/KG	Surrogate/radiological chemical recovery data was not present.
SD1501	Pesticide/PCBs	Endosulfan I	0.18	UG/KG	The %D between the two pesticide/PCB column checks was >25%.
SD1601	Inorganics	Antimony	0.24	MG/KG	MS recovery was <30%.
SD1601	Inorganics	Thallium	0.72	MG/KG	Blank had a negative value >5X's the IDL.
SD1601	Explosives	1,3,5-Trinitrobenzene	1.5	MG/KG	Initial calibration RSD was >30%.
SD1601	Explosives	PETN	1.0	MG/KG	Surrogate/radiological chemical recovery data was not present.
SD1701	Inorganics	Antimony	0.24	MG/KG	MS recovery was <30%.
SD1701	Inorganics	Thallium	0.73	MG/KG	Blank had a negative value >5X's the IDL.
SD1701	Explosives	PETN	1.0	MG/KG	Surrogate/radiological chemical recovery data was not present.
SD1701	Pesticide/PCBs	4,4'-DDE	5.2	UG/KG	The %D between the two pesticide/PCB column checks was >25%.; Surrogate/radiological chemical recovery was below the lower control limit.
SD1701	Pesticide/PCBs	Endrin Aldehyde	6.2	UG/KG	The %D between the two pesticide/PCB column checks was >25%.; Surrogate/radiological chemical recovery was below the lower control limit.
SD1801	Inorganics	Antimony	0.22	MG/KG	MS recovery was above the upper control limit.
SD1801	Inorganics	Thallium	0.66	MG/KG	Blank had a negative value >5X's the IDL.
SD1801	Explosives	PETN	1.0	MG/KG	Surrogate/radiological chemical recovery data was not present.
SD1801	Pesticide/PCBs	p,p'-Methoxychlor	3.3	UG/KG	The %D between the two pesticide/PCB column checks was >25%.

Table E.4-32. Rejected Data Summary

Sample ID	Analysis Type	Parameter	Results	Units	Rejection Explanation
SD1901	Inorganics	Antimony	0.22	MG/KG	MS recovery was above the upper control limit.
SD1901	Inorganics	Thallium	0.65	MG/KG	Blank had a negative value >5X's the IDL.
SD1901	Explosives	PETN	1.0	MG/KG	Surrogate/radiological chemical recovery data was not present.
SD1901	Pesticide/PCBs	Endrin Aldehyde	4.0	UG/KG	The %D between the two pesticide/PCB column checks was >25%.
SD1901	Pesticide/PCBs	p,p'-Methoxychlor	6.0	UG/KG	The %D between the two pesticide/PCB column checks was >25%.
SD2001	Inorganics	Antimony	0.24	MG/KG	MS recovery was above the upper control limit.
SD2001	Inorganics	Thallium	0.73	MG/KG	Blank had a negative value >5X's the IDL.
SD2001	Explosives	PETN	1.0	MG/KG	Surrogate/radiological chemical recovery data was not present.
SD2101	Inorganics	Antimony	0.25	MG/KG	MS recovery was above the upper control limit.
SD2101	Inorganics	Thallium	0.74	MG/KG	Blank had a negative value >5X's the IDL.
SD2101	Explosives	PETN	1.0	MG/KG	Surrogate/radiological chemical recovery data was not present.
SD2101	Pesticide/PCBs	Endrin Aldehyde	0.91	UG/KG	The %D between the two pesticide/PCB column checks was >25%.
SD2111	Inorganics	Antimony	0.25	MG/KG	MS recovery was above the upper control limit.
SD2111	Inorganics	Thallium	0.75	MG/KG	Blank had a negative value >5X's the IDL.
SD2111	Explosives	PETN	1.0	MG/KG	Surrogate/radiological chemical recovery data was not present.
SD2201	Inorganics	Antimony	0.24	MG/KG	MS recovery was <30%.
SD2201	Inorganics	Thallium	0.71	MG/KG	Blank had a negative value >5X's the IDL.
SD2201	Explosives	PETN	1.0	MG/KG	Surrogate/radiological chemical recovery data was not present.
SD2301	Inorganics	Antimony	0.25	MG/KG	MS recovery was above the upper control limit.
SD2301	Inorganics	Thallium	0.75	MG/KG	Blank had a negative value >5X's the IDL.
SD2301	Inorganics	Europium	1.00	MG/KG	Blank had a negative value >5X's the IDL.
SD2301	Inorganics	Lutetium	0.50	MG/KG	Blank had a negative value >5X's the IDL.
SD2301	Inorganics	Thulium	2.50	MG/KG	Blank had a negative value >5X's the IDL.
SD2301	Explosives	PETN	1.0	MG/KG	Surrogate/radiological chemical recovery data was not present.

Table E.4-32. Rejected Data Summary

Sample ID	Analysis Type	Parameter	Results	Units	Rejection Explanation
SD2401	Inorganics	Antimony	0.26	MG/KG	MS recovery was <30%.
SD2401	Inorganics	Thallium	0.79	MG/KG	Blank had a negative value >5X's the IDL.
SD2401	Inorganics	Dypsprosi	2.90	MG/KG	Blank had a negative value >5X's the IDL.
SD2401	Inorganics	Europium	1.00	MG/KG	Blank had a negative value >5X's the IDL.
SD2401	Inorganics	Lutetium	0.52	MG/KG	Blank had a negative value >5X's the IDL.
SD2401	Inorganics	Thulium	2.60	MG/KG	Blank had a negative value >5X's the IDL.
SD2401	Explosives	PETN	1.0	MG/KG	Surrogate/radiological chemical recovery data was not present.
SD2501	Inorganics	Antimony	0.24	MG/KG	MS recovery was <30%.
SD2501	Inorganics	Thallium	0.72	MG/KG	Blank had a negative value >5X's the IDL.
SD2501	Inorganics	Dypsprosi	2.70	MG/KG	Blank had a negative value >5X's the IDL.
SD2501	Inorganics	Europium	0.96	MG/KG	Blank had a negative value >5X's the IDL.
SD2501	Inorganics	Lutetium	0.48	MG/KG	Blank had a negative value >5X's the IDL.
SD2501	Inorganics	Thulium	2.40	MG/KG	Blank had a negative value >5X's the IDL.
SD2501	Explosives	PETN	1.0	MG/KG	Surrogate/radiological chemical recovery data was not present.
SD2601	Inorganics	Antimony	0.24	MG/KG	MS recovery was above the upper control limit.
SD2601	Inorganics	Thallium	0.73	MG/KG	Blank had a negative value >5X's the IDL.
SD2601	Explosives	PETN	1.0	MG/KG	Surrogate/radiological chemical recovery data was not present.
SD2701	Inorganics	Antimony	0.26	MG/KG	MS recovery was <30%.
SD2701	Inorganics	Thallium	0.79	MG/KG	Blank had a negative value >5X's the IDL.
SD2701	Inorganics	Dypsprosi	2.90	MG/KG	Blank had a negative value >5X's the IDL.
SD2701	Inorganics	Europium	1.10	MG/KG	Blank had a negative value >5X's the IDL.
SD2701	Inorganics	Lutetium	0.53	MG/KG	Blank had a negative value >5X's the IDL.
SD2701	Inorganics	Thulium	2.60	MG/KG	Blank had a negative value >5X's the IDL.
SD2701	Explosives	PETN	1.0	MG/KG	Surrogate/radiological chemical recovery data was not present.

Table E.4-32. Rejected Data Summary
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Sample ID	Analysis Type	Parameter	Results	Units	Rejection Explanation
W40001	Explosives	PETN	1.0	UG/L	Surrogate/radiological chemical recovery data was not present.
W40101	Inorganics	Selenium	39.00	UG/L	MS recovery was <30%.
W40101	Explosives	PETN	1.0	UG/L	Surrogate/radiological chemical recovery data was not present.
W40201	Explosives	PETN	1.0	UG/L	Surrogate/radiological chemical recovery data was not present.
W40211	Inorganics	Lead	1.10	UG/L	Blank had a negative value >5X's the IDL.
W40211	Inorganics	Nickel	0.80	UG/L	Blank had a negative value >5X's the IDL.
W40211	Explosives	PETN	1.0	UG/L	Surrogate/radiological chemical recovery data was not present.
W40801	Inorganics	Selenium	39.00	UG/L	MS recovery was <30%.
W40801	Explosives	PETN	1.0	UG/L	Surrogate/radiological chemical recovery data was not present.
W41001	Inorganics	Copper	0.30	UG/L	Blank had a negative value >5X's the IDL.
W41001	Inorganics	Lead	1.10	UG/L	Blank had a negative value >5X's the IDL.
W41001	Explosives	PETN	1.0	UG/L	Surrogate/radiological chemical recovery data was not present.
W41101	Explosives	PETN	1.0	UG/L	Surrogate/radiological chemical recovery data was not present.

Table E.5-1. Summary of Trip Blank Detectsons

Collection Date	Trip Blank Sample ID	Parameter	Results (µg/L)	Data Qualifier
27-Jun-94	TBN007	Methylene Chloride	2	J
28-Jun-94	TBN008	1,1-Dichloroethane	1	J
28-Jun-94	TBN008	Methylene Chloride	6	
29-Jun-94	TBN009	Methylene Chloride	5	
30-Jun-94	TBN010	Methylene Chloride	3	J
07-Jul-94	TBN013	Acrylonitrile	47	J
11-Jul-94	TBN014	Acrylonitrile	15	J
11-Jul-94	TBN014	Chloroform	1	J
20-Jul-94	TBN018	4-Methyl-2-pentanone	1	J
21-Jul-94	TBN019	4-Methyl-2-pentanone	1	J
22-Jun-94	TBA003	Trichloroethene	1	J
27-Jun-94	TBA005	Acrylonitrile	9	J
27-Jun-94	TBA005	Methylene Chloride	2	J
28-Jun-94	TBA006	Methylene Chloride	7	
29-Jun-94	TBA007	Methylene Chloride	5	
30-Jun-94	TBA008	Methylene Chloride	4	J
07-Jul-94	TBA011	Acetone	6	J
07-Jul-94	TBA011	Chloromethane	13	
08-Jul-94	TBA012	Trichloroethene	3	J
09-Aug-94	TBA022	Methylene Chloride	14	
10-Aug-94	TBA023	Acetone	5	J
10-Aug-94	TBA023	Methylene Chloride	13	

ID identification
J The result value is an estimated value
µg/L micrograms per liter
Note: No qualifier in the Data Qualifier column indicates that the data was not qualified.

Table E.5-2. Summary of Sample Bank Blanks
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Collection Date	Bank Blank Sample	Parameter	Results (µg/L)	Data Qualifier
20-Jun-94	BB0009	Bromodichloromethane	4	J
20-Jun-94	BB0009	Chloroform	18	
30-Jun-94	BB0010	Chloroform	6	
30-Jun-94	BB0010	Hexane	4	J
30-Jun-94	BB0010	Methylene Chloride	7	
30-Jun-94	BB0010	Xylene, Total	1	J
05-Jul-94	BB0011	Acetone	12	
05-Jul-94	BB0011	Bromodichloromethane	2	J
05-Jul-94	BB0011	Chloroform	14	
11-Jul-94	BB0012	Bromodichloromethane	4	J
11-Jul-94	BB0012	Carbon Tetrachloride	2	J
11-Jul-94	BB0012	Chloroform	65	
14-Jul-94	BB0013	Bromodichloromethane	2	J
14-Jul-94	BB0013	Chloroform	27	
20-Jun-94	BB0001	Bromodichloromethane	4	J
20-Jun-94	BB0001	Chloroform	16	
27-Jun-94	BB0002	Acetone	16	
27-Jun-94	BB0002	Chloroform	7	
27-Jun-94	BB0002	Methylene Chloride	6	
28-Jun-94	BB0003	1,1-Dichloroethane	1	J
28-Jun-94	BB0003	Bromodichloromethane	2	J
28-Jun-94	BB0003	Chloroform	20	
28-Jun-94	BB0003	Hexane	1	J
28-Jun-94	BB0003	Methylene Chloride	8	
07-Jul-94	BB0004	Acetone	23	

Table E.5-2. Summary of Sample Bank Blanks
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Collection Date	Bank Blank Sample	Parameter	Results (µg/L)	Data Qualifier
19-Jul-94	BB0005	Bromodichloromethane	6	
19-Jul-94	BB0005	Carbon Tetrachloride	3	J
19-Jul-94	BB0005	Chloroform	67	
27-Jul-94	BB0006	Bromodichloromethane	2	J
27-Jul-94	BB0006	Chloroform	15	

J The result value is an estimated value
µg/L micrograms per liter
Note: No qualifier in the Data Qualifier column indicates that the data was not qualified.
A blank in the Qualifier column indicates the validator agreed with the result presented by the lab.

Table E.5-3. Summary of Equipment Rinsate Detections
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Collection Date	Equipment Rinsate Sample ID	Analyte	Results	Data Qualifier	Units
15-Jun-94	ER0015	Acetone	2	J	UG/L
15-Jun-94	ER0015	Acrylonitrile	16	J	UG/L
15-Jun-94	ER0015	Bromodichloromethane	6		UG/L
15-Jun-94	ER0015	Calcium	576.00		UG/L
15-Jun-94	ER0015	Carbon Tetrachloride	4	J	UG/L
15-Jun-94	ER0015	Chloroform	44		UG/L
15-Jun-94	ER0015	Di-n-butylphthalate	1	J	UG/L
15-Jun-94	ER0015	Diethylphthalate	1	J	UG/L
15-Jun-94	ER0015	Phenol	1	J	UG/L
15-Jun-94	ER0015	Ra-226	0.88	J	PCI/L
27-Jun-94	ER0017	Bromodichloromethane	3	J	UG/L
27-Jun-94	ER0016	Chloroform	13		UG/L
27-Jun-94	ER0017	Chloroform	30		UG/L
27-Jun-94	ER0017	Kjeldahl Nitrogen	0.6560		MG/L
27-Jun-94	ER0016	Methylene Chloride	5		UG/L
27-Jun-94	ER0017	Methylene Chloride	6		UG/L
27-Jun-94	ER0016	Organic Carbon	2.8600		MG/L
27-Jun-94	ER0016	Organic Carbon	2.9500		MG/L
27-Jun-94	ER0016	Organic Carbon	3.0100		MG/L
27-Jun-94	ER0016	Organic Carbon	3.0800		MG/L
27-Jun-94	ER0017	Organic Carbon	3.4200		MG/L
27-Jun-94	ER0017	Organic Carbon	3.4800		MG/L
27-Jun-94	ER0017	Organic Carbon	3.5000		MG/L
27-Jun-94	ER0017	Organic Carbon	3.7600		MG/L
27-Jun-94	ER0016	Xylene, Total	1	J	UG/L
29-Jun-94	ER0018	1,1,1-Trichloroethane	1	J	UG/L

Table E.5-3. Summary of Equipment Rinsate Detections
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Collection Date	Equipment Rinsate Sample ID	Analyte	Results	Data Qualifier	Units
29-Jun-94	ER0018	Aluminum	106.00		UG/L
29-Jun-94	ER0018	Antimony	1.20		UG/L
29-Jun-94	ER0018	Barium	2.90		UG/L
29-Jun-94	ER0018	Bromodichloromethane	3	J	UG/L
29-Jun-94	ER0018	Chloroform	30		UG/L
29-Jun-94	ER0018	Copper	2.40		UG/L
29-Jun-94	ER0018	Methylene Chloride	4	J	UG/L
05-Jul-94	ER0019	1,1,1-Trichloroethane	1	J	UG/L
05-Jul-94	ER0019	Aluminum	121.00		UG/L
05-Jul-94	ER0019	Americium-241	0.52		PCI/L
05-Jul-94	ER0019	Barium	1.10		UG/L
05-Jul-94	ER0019	Bromodichloromethane	3	J	UG/L
05-Jul-94	ER0019	Calcium	722.00		UG/L
05-Jul-94	ER0019	Chloroform	22		UG/L
05-Jul-94	ER0019	Cobalt	1.20		UG/L
05-Jul-94	ER0019	Copper	4.60		UG/L
05-Jul-94	ER0019	Endosulfan Sulfate	0.015	J	UG/L
05-Jul-94	ER0019	Magnesium	212.00		UG/L
05-Jul-94	ER0019	Phenol	1	J	UG/L
05-Jul-94	ER0019	Plutonium-238	0.10		PCI/L
05-Jul-94	ER0019	Plutonium-239/40	0.11		PCI/L
05-Jul-94	ER0019	Tritium	464.4		PCI/L
07-Jul-94	ER0020	1,3-Dinitrobenzene	0.53	J	UG/L
07-Jul-94	ER0020	Acetone	25		UG/L
07-Jul-94	ER0020	Aluminum	119.00		UG/L
07-Jul-94	ER0020	Americium-241	0.22	J	PCI/L
07-Jul-94	ER0020	Hexane	2	J	UG/L

Table E.5-3. Summary of Equipment Rinsate Detections
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Collection Date	Equipment Rinsate Sample ID	Analyte	Results	Data Qualifier	Units
07-Jul-94	ER0020	Methylene Chloride	34		UG/L
07-Jul-94	ER0020	Sulfate	2.1700		MG/L
11-Jul-94	ER0021	1,3-Dinitrobenzene	0.43	J	UG/L
11-Jul-94	ER0021	Acrylonitrile	13	J	UG/L
11-Jul-94	ER0021	Aluminum	161.00		UG/L
11-Jul-94	ER0021	Americium-241	0.33		PCI/L
11-Jul-94	ER0021	Antimony	1.20		UG/L
11-Jul-94	ER0021	Barium	2.50		UG/L
11-Jul-94	ER0021	Bromodichloromethane	3	J	UG/L
11-Jul-94	ER0021	Calcium	376.00		UG/L
11-Jul-94	ER0021	Carbon Tetrachloride	2	J	UG/L
11-Jul-94	ER0021	Chloroform	57		UG/L
11-Jul-94	ER0021	Magnesium	117.00		UG/L
11-Jul-94	ER0021	Phenol	3	J	UG/L
11-Jul-94	ER0021	Plutonium-239/40	0.13		PCI/L
11-Jul-94	ER0021	Thorium-230	1.31		PCI/L
11-Jul-94	ER0021	Thorium-232	0.26		PCI/L
11-Jul-94	ER0021	Toluene	1	J	UG/L
12-Jul-94	ER0022	2-Amino-4,6-dinitrotoluene	0.24	J	UG/L
12-Jul-94	ER0022	Aluminum	104.00		UG/L
12-Jul-94	ER0022	Americium-241	0.26		PCI/L
12-Jul-94	ER0022	Bromodichloromethane	4	J	UG/L
12-Jul-94	ER0022	Calcium	356.00		UG/L
12-Jul-94	ER0022	Carbon Tetrachloride	3	J	UG/L
12-Jul-94	ER0022	Chloroform	66		UG/L
12-Jul-94	ER0022	Copper	1.10		UG/L
12-Jul-94	ER0022	Magnesium	116.00		UG/L

Table E.5-3. Summary of Equipment Rinsate Detections
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Collection Date	Equipment Rinsate Sample ID	Analyte	Results	Data Qualifier	Units
12-Jul-94	ER0022	Radium-226	0.25	J	PCI/L
12-Jul-94	ER0022	Sulfate	2.4900		MG/L
12-Jul-94	ER0022	bis(2-Ethylhexyl)phthalate	1	J	UG/L
20-Jun-94	ER0001	Bromodichloromethane	6		UG/L
20-Jun-94	ER0001	Carbon Tetrachloride	2	J	UG/L
20-Jun-94	ER0001	Chloroform	43		UG/L
20-Jun-94	ER0001	Chromium	1.40		UG/L
20-Jun-94	ER0001	Iron	20.10		UG/L
20-Jun-94	ER0001	Magnesium	86.20		UG/L
20-Jun-94	ER0001	Organic Carbon	3.1500		MG/L
20-Jun-94	ER0001	Organic Carbon	3.1800		MG/L
20-Jun-94	ER0001	Organic Carbon	3.4700		MG/L
20-Jun-94	ER0001	Organic Carbon	3.6300		MG/L
20-Jun-94	ER0001	Pu-238	1.74	J	PIC/L
20-Jun-94	ER0001	Pu-239/40	0.17	J	PIC/L
20-Jun-94	ER0001	Ra-226	0.08	J	PCI/L
20-Jun-94	ER0001	Sodium	315.00		UG/L
20-Jun-94	ER0001	Th-228	0.67	J	PIC/L
20-Jun-94	ER0001	Th-230	0.26	J	PIC/L
21-Jun-94	ER0002	2,4,6-Trinitrotoluene	10.0	J	UG/L
21-Jun-94	ER0002	2,4-Dinitrotoluene	2.4	J	UG/L
21-Jun-94	ER0002	2,6-Dinitrotoluene	2.6	J	UG/L
21-Jun-94	ER0002	Aluminum	38.00		UG/L
21-Jun-94	ER0002	Bromodichloromethane	5		UG/L
21-Jun-94	ER0002	Carbon Tetrachloride	2	J	UG/L
21-Jun-94	ER0002	Chloroform	36		UG/L
21-Jun-94	ER0002	Iron	31.20		UG/L

Table E.5-3. Summary of Equipment Rinsate Detections
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Collection Date	Equipment Rinsate Sample ID	Analyte	Results	Data Qualifier	Units
21-Jun-94	ER0002	Magnesium	79.20		UG/L
21-Jun-94	ER0002	Organic Carbon	3.5000		MG/L
21-Jun-94	ER0002	Organic Carbon	3.6400		MG/L
21-Jun-94	ER0002	Organic Carbon	3.8000		MG/L
21-Jun-94	ER0002	Organic Carbon	3.8600		MG/L
21-Jun-94	ER0002	Pu-239/40	0.13	J	PIC/L
21-Jun-94	ER0002	Ra-226	0.24	J	PCI/L
21-Jun-94	ER0002	Sodium	360.00		UG/L
21-Jun-94	ER0002	Th-228	1.24	J	PIC/L
21-Jun-94	ER0002	Th-230	0.71	J	PIC/L
21-Jun-94	ER0002	Th-232	0.57	J	PIC/L
28-Jun-94	ER0003	Aluminum	43.80		UG/L
28-Jun-94	ER0003	Chloroform	5		UG/L
28-Jun-94	ER0003	Holmium	10.00		UG/L
28-Jun-94	ER0003	Iron	35.50		UG/L
28-Jun-94	ER0003	Methylene Chloride	3	J	UG/L
28-Jun-94	ER0003	Organic Carbon	2.3100		MG/L
28-Jun-94	ER0003	Organic Carbon	2.4400		MG/L
28-Jun-94	ER0003	Organic Carbon	2.5300		MG/L
28-Jun-94	ER0003	Ra-226	0.24	J	PCI/L
28-Jun-94	ER0003	Samarium	82.00		UG/L
28-Jun-94	ER0003	Sodium	278.00		UG/L
28-Jun-94	ER0003	Th-228	0.66	J	PIC/L
28-Jun-94	ER0003	Th-230	0.44	J	PIC/L
29-Jun-94	ER0004	Bromodichloromethane	3	J	UG/L
29-Jun-94	ER0004	Chloroform	25		UG/L
29-Jun-94	ER0004	Copper	1.90		UG/L

Table E.5-3. Summary of Equipment Rinsate Detections
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Collection Date	Equipment Rinsate Sample ID	Analyte	Results	Data Qualifier	Units
29-Jun-94	ER0004	Kjeldahl Nitrogen	0.7160		MG/L
29-Jun-94	ER0004	Methylene Chloride	5		UG/L
29-Jun-94	ER0004	Organic Carbon	3.2000		MG/L
29-Jun-94	ER0004	Organic Carbon	3.2400		MG/L
29-Jun-94	ER0004	Organic Carbon	3.2800		MG/L
29-Jun-94	ER0004	Organic Carbon	3.4100		MG/L
29-Jun-94	ER0004	Ra-226	0.01	J	PCI/L
29-Jun-94	ER0004	Sulfate	2.0500		MG/L
29-Jun-94	ER0004	Th-228	1.08	J	PIC/L
29-Jun-94	ER0004	Th-230	0.47	J	PIC/L
30-Jun-94	ER0005	Bromodichloromethane	3	J	UG/L
30-Jun-94	ER0005	Chloroform	23		UG/L
30-Jun-94	ER0005	Methylene Chloride	5		UG/L
30-Jun-94	ER0005	Pu-239/40	0.16	J	PIC/L
30-Jun-94	ER0005	Ra-226	0.81	J	PCI/L
06-Jul-94	ER0006	2-Amino-4,6-dinitrotoluene	2.9	J	UG/L
06-Jul-94	ER0006	Acetone	11		UG/L
06-Jul-94	ER0006	Am-241	0.26	J	PCI/L
06-Jul-94	ER0006	Organic Carbon	1.3800		MG/L
06-Jul-94	ER0006	Organic Carbon	1.4200		MG/L
06-Jul-94	ER0006	Organic Carbon	1.4700		MG/L
06-Jul-94	ER0006	Organic Carbon	1.7000		MG/L
06-Jul-94	ER0006	Th-228	1.06	J	PIC/L
06-Jul-94	ER0006	Th-230	0.28	J	PIC/L
06-Jul-94	ER0006	Tritium	401.7		PCI/L
20-Jul-94	ER0008	Am-241	0.49	J	PCI/L
20-Jul-94	ER0008	Bromodichloromethane	5		UG/L

Table E.5-3. Summary of Equipment Rinsate Detections
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Collection Date	Equipment Rinsate Sample ID	Analyte	Results	Data Qualifier	Units
20-Jul-94	ER0008	Calcium	326.00		UG/L
20-Jul-94	ER0008	Carbon Tetrachloride	2	J	UG/L
20-Jul-94	ER0008	Cerium	52.00		UG/L
20-Jul-94	ER0008	Chloroform	54		UG/L
20-Jul-94	ER0008	Dypsprosium	11.00		UG/L
20-Jul-94	ER0008	Erbium	30.00		UG/L
20-Jul-94	ER0008	Europium	4.00		UG/L
20-Jul-94	ER0008	Gadolinium	31.00		UG/L
20-Jul-94	ER0008	Holmium	9.00		UG/L
20-Jul-94	ER0008	Lanthanum	17.00		UG/L
20-Jul-94	ER0008	Lutetium	2.00		UG/L
20-Jul-94	ER0008	Magnesium	101.00		UG/L
20-Jul-94	ER0008	Neodymium	50.00		UG/L
20-Jul-94	ER0008	Organic Carbon	1.8000	J	MG/L
20-Jul-94	ER0008	Organic Carbon	1.8200	J	MG/L
20-Jul-94	ER0008	Organic Carbon	1.9200	J	MG/L
20-Jul-94	ER0008	Organic Carbon	1.9500	J	MG/L
20-Jul-94	ER0008	Potassium	137.00	J	UG/L
20-Jul-94	ER0008	Praseodymium	32.00		UG/L
20-Jul-94	ER0008	Samarium	82.00		UG/L
20-Jul-94	ER0008	Terbium	60.00		UG/L
20-Jul-94	ER0008	Thulium	10.00		UG/L
20-Jul-94	ER0008	Ytterbium	15.00		UG/L
20-Jul-94	ER0008	Zinc	12.20		UG/L
22-Jul-94	ER0009	Am-241	0.19		PCI/L
22-Jul-94	ER0009	Barium	1.10		UG/L
22-Jul-94	ER0009	Bromodichloromethane	5		UG/L

Table E.5-3. Summary of Equipment Rinsate Detections
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Collection Date	Equipment Rinsate Sample ID	Analyte	Results	Data Qualifier	Units
22-Jul-94	ER0009	Calcium	322.00		UG/L
22-Jul-94	ER0009	Carbon Tetrachloride	2	J	UG/L
22-Jul-94	ER0009	Cerium	52.00		UG/L
22-Jul-94	ER0009	Chloroform	47		UG/L
22-Jul-94	ER0009	Dypsprosium	11.00		UG/L
22-Jul-94	ER0009	Erbium	30.00		UG/L
22-Jul-94	ER0009	Europium	4.00		UG/L
22-Jul-94	ER0009	Gadolinium	31.00		UG/L
22-Jul-94	ER0009	Holmium	9.00		UG/L
22-Jul-94	ER0009	Lanthanum	17.00		UG/L
22-Jul-94	ER0009	Lutetium	2.00		UG/L
22-Jul-94	ER0009	Magnesium	105.00		UG/L
22-Jul-94	ER0009	Neodymium	50.00		UG/L
22-Jul-94	ER0009	Organic Carbon	1.1200	J	MG/L
22-Jul-94	ER0009	Organic Carbon	1.1800	J	MG/L
22-Jul-94	ER0009	Organic Carbon	1.2100	J	MG/L
22-Jul-94	ER0009	Organic Carbon	1.2200	J	MG/L
22-Jul-94	ER0009	Potassium	147.00	J	UG/L
22-Jul-94	ER0009	Praseodymium	32.00		UG/L
22-Jul-94	ER0009	Samarium	82.00		UG/L
22-Jul-94	ER0009	Terbium	60.00		UG/L
22-Jul-94	ER0009	Thulium	10.00		UG/L
22-Jul-94	ER0009	Ytterbium	15.00		UG/L
26-Jul-94	ER0010	Am-241	0.17	J	PCI/L
26-Jul-94	ER0010	Barium	2.30		UG/L
26-Jul-94	ER0010	Bromodichloromethane	5		UG/L
26-Jul-94	ER0010	Calcium	334.00		UG/L

Table E.5-3. Summary of Equipment Rinsate Detections
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Collection Date	Equipment Rinsate Sample ID	Analyte	Results	Data Qualifier	Units
26-Jul-94	ER0010	Carbon Tetrachloride	2	J	UG/L
26-Jul-94	ER0010	Cerium	52.00		UG/L
26-Jul-94	ER0010	Chloroform	46		UG/L
26-Jul-94	ER0010	Dypsprosium	11.00		UG/L
26-Jul-94	ER0010	Erbium	30.00		UG/L
26-Jul-94	ER0010	Europium	4.00		UG/L
26-Jul-94	ER0010	Gadolinium	31.00		UG/L
26-Jul-94	ER0010	Holmium	9.00		UG/L
26-Jul-94	ER0010	Lanthanum	17.00		UG/L
26-Jul-94	ER0010	Lutetium	2.00		UG/L
26-Jul-94	ER0010	Magnesium	107.00		UG/L
26-Jul-94	ER0010	Manganese	1.90		UG/L
26-Jul-94	ER0010	Neodymium	50.00		UG/L
26-Jul-94	ER0010	Organic Carbon	1.3300	J	MG/L
26-Jul-94	ER0010	Organic Carbon	1.3600	J	MG/L
26-Jul-94	ER0010	Organic Carbon	1.6300	J	MG/L
26-Jul-94	ER0010	Potassium	153.00	J	UG/L
26-Jul-94	ER0010	Praseodymium	32.00		UG/L
26-Jul-94	ER0010	Samarium	82.00		UG/L
26-Jul-94	ER0010	Terbium	60.00		UG/L
26-Jul-94	ER0010	Thulium	10.00		UG/L
26-Jul-94	ER0010	Ytterbium	15.00		UG/L
26-Jul-94	ER0010	bis(2-Ethylhexyl)phthalate	2	J	UG/L

ID identification
J The result value is an estimated value
MG/L milligrams per liter
PCI/L picocuries per liter
UG/L micrograms per liter
Note: No qualifier in the Data Qualifier column indicates that the data was not qualified.

Table E.5-4. Field Precision Summary
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Matrix	Analyte	Number of Field Duplicate Pairs	Minimum RPD	Maximum RPD	Number Within Acceptance Limits	Percentage Within Limits
Soil	1,2-Dichloroethene	1	0.00	40.00	0	0.00
	4,4'-DDE	1	9.30	9.30	1	100.00
	Acenaphthene	2	0.00	0.00	2	100.00
	Acetone	3	0.00	0.00	3	100.00
	Aluminum	13	0.00	21.20	13	100.00
	Anthracene	4	0.00	0.00	4	100.00
	Antimony	4	0.00	12.90	4	100.00
	Aroclor-1254	2	0.00	0.00	2	100.00
	Arsenic	13	0.00	56.20	11	84.62
	Barium	13	0.00	37.20	12	92.31
	Benzo(a)anthracene	6	0.00	80.50	5	83.33
	Benzo(a)pyrene	6	0.00	68.20	5	83.33
	Benzo(b)fluoranthene	7	0.00	73.30	6	85.71
	Benzo(g,h,i)perylene	2	0.00	0.00	2	100.00
	Benzo(k)fluoranthene	7	0.00	81.20	6	85.71
	Beryllium	10	0.00	8.00	10	100.00
	Bismuth	10	0.00	43.80	8	80.00
	Cadmium	1	0.00	0.00	1	100.00
	Calcium	13	0.00	32.20	13	100.00
	Carbazole	1	0.00	0.00	1	100.00
	Cerium	4	0.00	0.00	4	100.00
	Chloride	11	0.00	19.60	11	100.00
	Chromium	11	0.00	18.40	11	100.00
	Chrysene	6	0.00	77.80	5	83.33

Table E.5-4. Field Precision Summary
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Matrix	Analyte	Number of Field Duplicate Pairs	Minimum RPD	Maximum RPD	Number Within Acceptance Limits	Percentage Within Limits
Soil (continued)	Cobalt	11	0.00	11.80	11	100.00
	Copper	11	0.00	10.10	11	100.00
	Di-n-butylphthalate	2	0.00	22.20	2	100.00
	Dibenzofuran	1	0.00	0.00	1	100.00
	Dieldrin	1	0.00	0.00	1	100.00
	Dypsprosium	2	0.00	0.00	2	100.00
	Endrin	1	0.00	0.00	1	100.00
	Europium	2	0.00	0.00	2	100.00
	Fluoranthene	8	0.00	101.00	6	75.00
	Fluorene	1	0.00	0.00	1	100.00
	Fluoride	11	0.00	108.00	9	81.82
	Gadolinium	1	0.00	0.00	1	100.00
	Heptachlor Epoxide	1	0.00	0.00	1	100.00
	Holmium	1	0.00	0.00	1	100.00
	Indeno(1,2,3-c,d)pyrene	4	0.00	0.00	4	100.00
	Iron	13	0.00	35.70	12	92.31
	K-40	9	0.00	16.80	9	100.00
	Lead	14	0.00	66.30	13	92.86
	Lithium	7	0.00	7.10	7	100.00
	Magnesium	14	0.00	42.20	13	92.86
	Manganese	13	0.00	146.00	12	92.31
	Mercury	3	0.00	0.00	3	100.00
	Molybdenum	5	0.00	16.20	5	100.00
	Naphthalene	2	0.00	0.00	2	100.00
	Neodymium	7	0.00	0.00	7	100.00

Table E.5-4. Field Precision Summary
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Matrix	Analyte	Number of Field Duplicate Pairs	Minimum RPD	Maximum RPD	Number Within Acceptance Limits	Percentage Within Limits
Soil (continued)	Nickel	11	0.00	19.40	11	100.00
	Nitrate-Nitrite-N	9	0.00	199.00	6	66.67
	Organic Carbon	10	0.00	81.80	8	80.00
	Phenanthrene	6	0.00	122.00	5	83.33
	Potassiumium	14	0.00	36.20	13	92.86
	Praseodym	1	0.00	0.00	1	100.00
	Plutonium-238	2	0.00	0.00	2	100.00
	Plutonium-239/40	1	0.00	0.00	1	100.00
	Pyrene	6	0.00	91.20	5	83.33
	Radium-226	13	0.00	28.60	13	100.00
	Samarium	1	0.00	0.00	1	100.00
	Silver	2	0.00	0.00	2	100.00
	Sodium	8	0.00	22.70	8	100.00
	Sulfate	11	0.00	124.00	7	63.64
	Terbium	1	0.00	0.00	1	100.00
	Tetrachloroethene	1	0.00	0.00	1	100.00
	Thorium-228	5	0.00	37.80	3	60.00
	Thorium-230	9	0.00	39.20	8	88.89
	Thorium-232	9	0.00	73.90	8	88.89
	Tin	1	0.00	0.00	1	100.00
	Trichloroethene	1	18.20	18.20	1	100.00
	Uranium-234	12	0.00	46.20	11	91.67
	Uranium-235	3	0.00	0.00	3	100.00
	Uranium-238	12	0.00	47.50	10	83.33
	Vanadium	11	0.00	19.80	11	100.00
	Ytterbium	1	0.00	0.00	1	100.00

Table E.5-4. Field Precision Summary
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Matrix	Analyte	Number of Field Duplicate Pairs	Minimum RPD	Maximum RPD	Number Within Acceptance Limits	Percentage Within Limits
Soil (continued)	Zinc	13	0.00	160.00	12	92.31
	alpha-Chlordane	1	0.00	0.00	1	100.00
	bis(2-Ethylhexyl)phthalate	2	0.00	0.00	2	100.00
	gamma-Chlordane	2	0.00	0.00	2	100.00
Water	Alkalinity	1	2.50	2.50	1	100.00
	Alkalinity as Calcium Carbonate	1	0.00	0.00	1	100.00
	Aluminum	2	0.00	0.00	2	100.00
	Arsenic	1	0.00	0.00	1	100.00
	Barium	2	0.00	0.00	2	100.00
	Benzoic Acid	1	0.00	0.00	1	100.00
	Bismuth	2	0.00	0.00	2	100.00
	Calcium	2	0.00	0.00	2	100.00
	Chloride	2	0.00	0.00	2	100.00
	Chromium	1	0.00	0.00	1	100.00
	Cobalt	1	0.00	0.00	1	100.00
	Copper	1	0.00	0.00	1	100.00
	Dissolved Solids	2	0.00	0.00	2	100.00
	Fluoride	2	0.00	0.00	2	100.00
	Iron	3	0.00	121.00	2	66.67
	Kjeldahl Nitrogen	3	0.00	7.90	3	100.00
	Lead	1	0.00	0.00	1	100.00
	Magnesium	3	0.00	20.20	2	66.67
	Manganese	2	0.00	0.00	2	100.00
	Nitrate-Nitrite-N	2	0.00	0.00	2	100.00
	Organic Carbon	2	0.00	0.00	2	100.00

Table E.5-4. Field Precision Summary
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Matrix	Analyte	Number of Field Duplicate Pairs	Minimum RPD	Maximum RPD	Number Within Acceptance Limits	Percentage Within Limits
Water (continued)	Potassium	2	0.00	0.00	2	100.00
	Radium-226	2	0.00	67.70	1	50.00
	Sodium	2	0.00	0.00	2	100.00
	Sulfate	2	0.00	0.00	2	100.00
	Suspended Solids	2	0.00	0.00	2	100.00
	Thorium-228	2	0.00	0.00	2	100.00
	Thorium-232	1	0.00	0.00	1	100.00
	Total Phosphorus	2	0.00	0.00	2	100.00
	Tritium	3	0.00	5.00	3	100.00
	Uranium-234	2	0.00	0.00	2	100.00
	Uranium-238	3	0.00	6.20	3	100.00
	Vanadium	2	0.00	0.00	2	100.00
	Zinc	2	0.00	0.00	2	100.00

RPD relative percent difference

APPENDIX F
VALIDATED CHEMICAL AND RADIOLOGICAL DATA FOR SOIL AND GROUNDWATER

F.1 Tables of Validated Detected Analytes in Soil and Groundwater
F.2 Tables of All Validated Analytical Data for Soil and Groundwater

F.1 Tables of Validated Detected Analytes in Soil and Groundwater

APPENDIX F.1 Tables of Validated Detected Analytes in Soil and Groundwater
Table F.1.1 Radionuclides in Surface Soil Samples from Area 7 Soil Borings

	B01	B02	B03	B04
	Value	Value	Value	Value
RADIONUCLIDES (pCi/g)				
Pu-238	ND	ND	ND	0.19
Ra-226	ND	ND	ND	0.49
Th-228	0.650 J	0.26	0.25	0.39
Th-230	1.310 J	0.1	ND	0.390 J
Th-232	0.450 J	ND	ND	0.290 J
U-235	0.060 J	0.12	0.050 J	0.04
U-238	0.910 J	0.39	0.380 J	0.62
	B05	B06	B07	B08
	Value	Value	Value	Value
RADIONUCLIDES (pCi/g)				
K-40	19.52	23.720 J	13.94	13.17
Pu-238	0.24	ND	1.36	ND
Pu-239/40	ND	ND	0.12	ND
Ra-226	ND	0.7	0.66	0.4
Th-228	1.21	ND	1.530 J	ND
Th-230	1.040 J	0.74	0.92	ND
Th-232	1.020 J	0.560 J	1.000 J	0.060 J
Tritium	ND	ND	4.7	3.4
U-234	1.19	0.79	0.44	0.63
U-235	0.23	ND	ND	0.12
U-238	1.23	0.690 J	0.790 J	0.710 J

APPENDIX F.1 Tables of Validated Detected Analytes in Soil and Groundwater

Table F.1.1 Radionuclides in Surface Soil Samples from Area 7 Soil Borings

	B09	B10	B11	B12
	Value	Value	Value	Value
RADIONUCLIDES (pCi/g)				
K-40	13.82	19.85	12.04	ND
Pu-238	0.16	0.180 J	0.280 J	ND
Pu-239/40	ND	ND	ND	ND
Ra-226	0.36	0.49	0.54	0.4
Th-232	0.130 J	0.360 J	0.130 J	ND
Tritium	9.5	ND	2.6	ND
U-234	0.440 J	0.76	0.56	0.43
U-235	ND	ND	ND	ND
U-238	0.440 J	0.860 J	0.540 J	0.440 J

	B13	B14	B15	B16
	Value	Value	Value	Value
RADIONUCLIDES (pCi/g)				
K-40	ND	ND	15.910 J	17.9
Pu-238	0.120 J	ND	0.650 J	0.43
Ra-226	ND	0.36	0.52	0.83
Th-228	0.37	0.64	ND	0.880 J
Th-230	0.25	0.68	0.36	0.680 J
Th-232	0.05	0.09	0.350 J	0.580 J
U-234	0.35	0.350 J	0.68	0.65
U-235	ND	ND	0.07	0.05
U-238	0.39	0.320 J	0.670 J	0.78

All samples collected 0-2 feet below ground surface
pCi/g - picocuries per gram
J - estimated
ND - not detected

APPENDIX F.1 Tables of Validated Detected Analytes in Soil and Groundwater

TABLE F.1.2 Radionuclides in Subsurface Soil Samples from Area 7 Soil Borings

	B01				B02			
	MINIMUM		MAXIMUM		MINIMUM		MAXIMUM	
	Value	Depth (ft BGS)	Value	Depth (ft BGS)	Value	Depth (ft BGS)	Value	Depth (ft BGS)
RADIONUCLIDES (pCi/g)								
K-40	11.000	15.0-17.0	19.570	10.0-12.0	34.080	5.0-7.0	34.080	5.0-7.0
Pu-238	0.180 J	5.0-7.0	0.210	10.0-12.0	ND	NA	ND	NA
Ra-226	0.580	25.0-27.0	0.720	20.0-22.0	0.680	5.0-7.0	0.680	5.0-7.0
Th-228	0.290 J	25.0-27.0	0.540	20.0-22.0	0.580	5.0-7.0	0.580	5.0-7.0
Th-230	0.180	5.0-7.0	0.540	20.0-22.0	0.430	5.0-7.0	0.430	5.0-7.0
Th-232	0.050 J	25.0-27.0	0.300	20.0-22.0	0.430	5.0-7.0	0.430	5.0-7.0
U-235	0.030 J	15.0-17.0	0.250	5.0-7.0	0.110 J	5.0-7.0	0.110 J	5.0-7.0
U-238	0.650	10.0-12.0	1.000	30.0-32.0	1.140 J	5.0-7.0	1.140 J	5.0-7.0

	B03				B04			
	MINIMUM		MAXIMUM		MINIMUM		MAXIMUM	
	Value	Depth (ft BGS)	Value	Depth (ft BGS)	Value	Depth (ft BGS)	Value	Depth (ft BGS)
RADIONUCLIDES (pCi/g)								
K-40	11.650	25.0-28.0	25.590	10.0-13.0	24.230	5.0-9.0	25.750	5.0-9.0
Th-228	0.540	5.0-7.0	1.060 J	15.0-19.0	0.550 J	5.0-9.0	0.690 J	5.0-9.0
Th-230	0.260 J	10.0-13.0	1.190 J	25.0-28.0	0.250 J	5.0-9.0	0.530 J	5.0-9.0
Th-232	0.290 J	10.0-13.0	0.730 J	15.0-19.0	0.240 J	5.0-9.0	0.420 J	5.0-9.0
U-235	0.060 J	25.0-28.0	0.140 J	5.0-7.0	0.040	5.0-9.0	0.040	5.0-9.0
U-238	0.740 J	5.0-7.0	0.790 J	10.0-13.0	0.740 J	5.0-9.0	0.850	5.0-9.0

	B05				B06			
	MINIMUM		MAXIMUM		MINIMUM		MAXIMUM	
	Value	Depth (ft BGS)	Value	Depth (ft BGS)	Value	Depth (ft BGS)	Value	Depth (ft BGS)
RADIONUCLIDES (pCi/g)								
K-40	25.680	5.0-7.0	25.680	5.0-7.0	24.480 J	10.0-16.0	28.300 J	5.0-10.0
Th-228	0.630 J	5.0-7.0	0.630 J	5.0-7.0	ND	NA	ND	NA
Th-230	0.460 J	5.0-7.0	0.460 J	5.0-7.0	0.810	10.0-16.0	1.230	5.0-10.0
Th-232	0.420 J	5.0-7.0	0.420 J	5.0-7.0	0.750 J	5.0-10.0	0.920 J	10.0-16.0
U-234	ND	NA	ND	NA	0.740	5.0-10.0	0.740	5.0-10.0
U-238	0.710	5.0-7.0	0.710	5.0-7.0	0.870 J	10.0-16.0	1.140 J	5.0-10.0

APPENDIX F.1 Tables of Validated Detected Analytes in Soil and Groundwater

TABLE F.1.2 Radionuclides in Subsurface Soil Samples from Area 7 Soil Borings

	B07				B08			
	MINIMUM		MAXIMUM		MINIMUM		MAXIMUM	
	Value	Depth (ft BGS)	Value	Depth (ft BGS)	Value	Depth (ft BGS)	Value	Depth (ft BGS)
RADIONUCLIDES (pCi/g)								
K-40	11.650	10.0-15.0	19.490	15.0-17.0	15.590	5.0-10.0	16.240	10.0-22.0
Pu-238	0.300	5.0-9.0	0.540	10.0-15.0	ND	NA	ND	NA
Ra-226	0.440	10.0-15.0	0.900	15.0-17.0	0.420	5.0-10.0	0.420	5.0-10.0
Th-228	0.860 J	5.0-9.0	3.070 J	15.0-17.0	ND	NA	ND	NA
Th-230	0.290 J	5.0-9.0	0.520	10.0-15.0	ND	NA	ND	NA
Th-232	0.340 J	5.0-9.0	1.750 J	15.0-17.0	0.060 J	5.0-10.0	0.060 J	5.0-10.0
Tritium	ND	NA	ND	NA	2.400	10.0-22.0	2.500	5.0-10.0
U-234	0.550 J	10.0-15.0	2.210 J	15.0-17.0	0.520	5.0-10.0	0.710 J	10.0-22.0
U-238	0.770 J	5.0-9.0	2.280 J	15.0-17.0	0.520 J	5.0-10.0	0.650 J	10.0-22.0

	B09				B10			
	MINIMUM		MAXIMUM		MINIMUM		MAXIMUM	
	Value	Depth (ft BGS)	Value	Depth (ft BGS)	Value	Depth (ft BGS)	Value	Depth (ft BGS)
RADIONUCLIDES (pCi/g)								
K-40	10.340	25.0-32.0	22.390	12.0-20.0	22.230	5.0-10.0	22.280	10.0-13.5
Ra-226	0.410	25.0-32.0	0.560	20.0-25.0	0.560	10.0-13.5	0.600	5.0-10.0
Th-232	0.150 J	5.0-12.0	0.390 J	12.0-20.0	0.100 J	5.0-10.0	0.140 J	10.0-13.5
Tritium	3.200	25.0-32.0	58.500	5.0-12.0	2.000	5.0-10.0	2.000	5.0-10.0
U-234	0.490	12.0-20.0	0.910	20.0-25.0	0.580	5.0-10.0	0.820 J	10.0-13.5
U-235	0.140	20.0-25.0	0.150	5.0-12.0	ND	NA	ND	NA
U-238	0.540 J	12.0-20.0	1.110 J	20.0-25.0	0.710 J	5.0-10.0	0.840 J	10.0-13.5

	B11				B12			
	MINIMUM		MAXIMUM		MINIMUM		MAXIMUM	
	Value	Depth (ft BGS)	Value	Depth (ft BGS)	Value	Depth (ft BGS)	Value	Depth (ft BGS)
RADIONUCLIDES (pCi/g)								
K-40	19.540	4.0-10.0	23.000	15.0-20.5	21.010	6.0-10.0	24.700	12.0-23.0
Pu-238	0.090	4.0-10.0	0.090	4.0-10.0	ND	NA	ND	NA
Ra-226	0.470	15.0-20.5	0.670	4.0-10.0	0.600	6.0-10.0	0.660	12.0-23.0
Th-232	0.160 J	4.0-10.0	0.480 J	4.0-10.0	0.290 J	6.0-10.0	0.400 J	12.0-23.0
U-234	0.650	4.0-10.0	0.910	4.0-10.0	0.530	12.0-23.0	0.780	6.0-10.0
U-235	0.060	4.0-10.0	0.100	4.0-10.0	0.030	12.0-23.0	0.030	12.0-23.0
U-238	0.650 J	10.0-15.0	0.820 J	4.0-10.0	0.640 J	6.0-10.0	0.650 J	12.0-23.0

APPENDIX F.1 Tables of Validated Detected Analytes in Soil and Groundwater

TABLE F.1.2 Radionuclides in Subsurface Soil Samples from Area 7 Soil Borings

	B13				B14			
	MINIMUM		MAXIMUM		MINIMUM		MAXIMUM	
	Value	Depth (ft BGS)	Value	Depth (ft BGS)	Value	Depth (ft BGS)	Value	Depth (ft BGS)
RADIONUCLIDES (pCi/g)								
K-40	10.660	25.0-28.0	18.860	5.0-10.0	12.080	25.0-30.0	18.880	12.0-18.0
Pu-238	0.150	5.0-10.0	0.250	20.0-25.0	0.610	12.0-18.0	2.980	25.0-30.0
Pu-239/40	ND	NA	ND	NA	0.270	25.0-30.0	0.270	25.0-30.0
Ra-226	0.400	20.0-25.0	0.570	25.0-28.0	0.510	12.0-18.0	0.640	25.0-30.0
Th-228	0.500 J	25.0-28.0	1.010	10.0-16.0	0.510	12.0-18.0	1.480 J	25.0-30.0
Th-230	0.120 J	25.0-28.0	0.440	10.0-16.0	0.100	12.0-18.0	1.140 J	25.0-30.0
Th-232	0.050 J	20.0-25.0	0.350	10.0-16.0	0.240	25.0-30.0	0.740 J	25.0-30.0
U-234	0.540	10.0-16.0	0.680 J	5.0-10.0	0.510 J	12.0-18.0	0.840 J	25.0-30.0
U-235	ND	NA	ND	NA	0.040 J	12.0-18.0	0.040 J	12.0-18.0
U-238	0.500	10.0-16.0	0.830	25.0-28.0	0.520 J	12.0-18.0	0.880 J	25.0-30.0

	B15				B16			
	MINIMUM		MAXIMUM		MINIMUM		MAXIMUM	
	Value	Depth (ft BGS)	Value	Depth (ft BGS)	Value	Depth (ft BGS)	Value	Depth (ft BGS)
RADIONUCLIDES (pCi/g)								
Ac-227	ND	NA	ND	NA	8.880	10.0-12.0	44.680	15.0-18.0
Cs-137	ND	NA	ND	NA	0.110	5.0-7.0	0.110	5.0-7.0
K-40	12.580 J	6.0-10.0	27.980 J	10.0-16.0	9.490	10.0-12.0	16.670	5.0-7.0
Pu-238	0.460	2.0-6.0	0.460	2.0-6.0	0.100	5.0-7.0	0.100	5.0-7.0
Pu-239/40	0.040	2.0-6.0	0.040	2.0-6.0	ND	NA	ND	NA
Ra-226	0.700	10.0-16.0	0.700	10.0-16.0	0.370	20.0-24.0	1.290	15.0-18.0
Th-228	ND		ND		0.590	15.0-18.0	2.440 J	5.0-7.0
Th-230	0.300	2.0-6.0	0.740 J	6.0-10.0	0.030 J	26.0-30.0	0.280 J	5.0-7.0
Th-232	0.060 J	2.0-6.0	0.630 J	10.0-16.0	0.080 J	26.0-30.0	1.590 J	5.0-7.0
U-234	0.470	6.0-10.0	0.710	10.0-16.0	0.500	20.0-24.0	1.950 J	5.0-7.0
U-235	ND		ND		0.060	20.0-24.0	0.060	20.0-24.0
U-238	0.530 J	2.0-6.0	0.990 J	10.0-16.0	0.460 J	20.0-24.0	2.070 J	5.0-7.0

pCi/g - picocuries per gram
J - estimated
ND - not detected
NA - not applicable
NS - not sampled
ft BGS - feet below ground surface

APPENDIX F.1 Tables of Validated Detected Analytes in Soil and Groundwater
Table F.1.3 Organic Compounds in Surface Soil Samples From Area 7 Soil Borings

	B01	B02	B03	B04
	Value	Value	Value	Value
EXPLOSIVES (µg/kg)				
4,4'-DDT	0.290 J	0.420 J	ND	ND
PESTICIDES/PCBs (µg/kg)				
Aldrin	ND	0.170 J	0.770 J	ND
alpha-Chlordane	ND	ND	ND	7.1
Endrin	0.330 J	ND	0.460 J	ND
Endrin Ketone	ND	ND	2.000 J	ND
gamma-Chlordane	ND	ND	0.780 J	8.5
Heptachlor	0.140 J	ND	ND	0.410 J
Heptachlor Epoxide	0.560 J	ND	ND	ND
p,p'-Methoxychlor	ND	1.800 J	ND	0.780 J

APPENDIX F.1 Tables of Validated Detected Analytes in Soil and Groundwater

Table F.1.3 Organic Compounds in Surface Soil Samples From Area 7 Soil Borings

	B01	B02	B03	B04
	Value	Value	Value	Value
SEMI-VOLATILE ORGANICS (µg/kg)				
2-Methylnaphthalene	ND	ND	58.000 J	ND
Acenaphthene	62.000 J	ND	ND	61.000 J
Acenaphthylene	ND	ND	ND	ND
Anthracene	130.000 J	26.000 J	47.000 J	110.000 J
Benzo(a)anthracene	280.000 J	64.000 J	190.000 J	270.000 J
Benzo(a)pyrene	230.000 J	52.000 J	270.000 J	290.000 J
Benzo(b)fluoranthene	430	120.000 J	460	340.000 J
Benzo(g,h,i)perylene	54.000 J	ND	110.000 J	230.000 J
Benzo(k)fluoranthene	750	210.000 J	780	700
Benzoic Acid	ND	ND	ND	ND
bis(2-Ethylhexyl)phthalate	80.000 J	67.000 J	ND	ND
Butylbenzylphthalate	ND	ND	ND	ND
Carbazole	60.000 J	ND	37.000 J	57.000 J
Chrysene	240.000 J	60.000 J	230.000 J	300.000 J
Di-n-butylphthalate	66.000 J	ND	ND	ND
Dibenzo(a,h)anthracene	ND	ND	ND	72.000 J
Fluoranthene	640	140.000 J	430	570
Fluorene	59.000 J	ND	ND	68.000 J
Indeno(1,2,3-c,d)pyrene	75.000 J	ND	120.000 J	200.000 J
Naphthalene	ND	ND	ND	ND
Phenanthrene	520	98.000 J	230.000 J	480
Pyrene	340.000 J	91.000 J	620	480
VOLATILE ORGANICS (µg/kg)				
Hexane	ND	ND	4.000 J	ND

APPENDIX F.1 Tables of Validated Detected Analytes in Soil and Groundwater
Table F.1.3 Organic Compounds in Surface Soil Samples From Area 7 Soil Borings

	B05	B06	B07	B08
	Value	Value	Value	Value
EXPLOSIVES (µg/kg)				
4,4'-DDE	0.390 J	ND	0.140 J	ND
4,4'-DDT	ND	ND	0.170 J	ND
PESTICIDES/PCBs (µg/kg)				
Aldrin	ND	ND	0.300 J	0.910 J
alpha-Chlordane	ND	ND	15.000 J	7.2
Dieldrin	0.790 J	0.240 J	1.000 J	ND
Endosulfan Sulfate	ND	ND	1.200 J	ND
Endrin Aldehyde	ND	0.570 J	ND	3.600 J
Endrin Ketone	ND	0.210 J	ND	ND
gamma-Chlordane	ND	ND	11.000 J	8.2
Heptachlor	ND	ND	0.250 J	ND
Heptachlor Epoxide	ND	ND	ND	0.170 J
p,p'-Methoxychlor	ND	ND	1.300 J	ND

APPENDIX F.1 Tables of Validated Detected Analytes in Soil and Groundwater
Table F.1.3 Organic Compounds in Surface Soil Samples From Area 7 Soil Borings

	B05	B06	B07	B08
	Value	Value	Value	Value
SEMI-VOLATILE ORGANICS (µg/kg)				
2-Methylnaphthalene	ND	ND	40.000 J	ND
Acenaphthene	ND	ND	130.000 J	ND
Acenaphthylene	ND	ND	95.000 J	ND
Anthracene	ND	ND	170.000 J	ND
Benzo(a)anthracene	120.000 J	ND	540	ND
Benzo(a)pyrene	160.000 J	ND	810	ND
Benzo(b)fluoranthene	290.000 J	33.000 J	1400.000 J	ND
Benzo(g,h,i)perylene	110.000 J	ND	140.000 J	ND
Benzo(k)fluoranthene	430	56.000 J	3000.000 J	ND
Benzoic Acid	ND	ND	97.000 J	ND
bis(2-Ethylhexyl)phthalate	ND	ND	ND	43.000 J
Carbazole	ND	ND	98.000 J	ND
Chrysene	160.000 J	48.000 J	590	42.000 J
Dibenzofuran	ND	ND	64.000 J	ND
Fluoranthene	250.000 J	ND	1300	40.000 J
Fluorene	ND	ND	120.000 J	ND
Indeno(1,2,3-c,d)pyrene	97.000 J	ND	230.000 J	ND
Naphthalene	ND	ND	43.000 J	ND
Phenanthrene	150.000 J	39.000 J	770	57.000 J
Phenol	ND	ND	57.000 J	ND
Pyrene	240.000 J	49.000 J	1200	44.000 J
VOLATILE ORGANICS (µg/kg)				
Acetone	24.000 J	94.000 J	140	ND

APPENDIX F.1 Tables of Validated Detected Analytes in Soil and Groundwater
Table F.1.3 Organic Compounds in Surface Soil Samples From Area 7 Soil Borings

	B09	B10	B11	B12
	Value	Value	Value	Value
EXPLOSIVES (µg/kg)				
4,4'-DDE	ND	ND	0.220 J	ND
PESTICIDES/PCBs (µg/kg)				
alpha-Chlordane	3.900 J	1.500 J	ND	0.320 J
Aroclor-1248	ND	ND	ND	18.000 J
delta-BHC	ND	0.190 J	ND	ND
Endosulfan Sulfate	ND	ND	ND	0.350 J
Endrin	ND	ND	0.370 J	ND
gamma-Chlordane	2.200 J	1.500 J	0.610 J	ND

APPENDIX F.1 Tables of Validated Detected Analytes in Soil and Groundwater
Table F.1.3 Organic Compounds in Surface Soil Samples From Area 7 Soil Borings

	B09	B10	B11	B12
	Value	Value	Value	Value
SEMI-VOLATILE ORGANICS (µg/kg)				
2-Methylnaphthalene	860	ND	43.000 J	ND
Acenaphthene	630.000 J	ND	220.000 J	ND
Acenaphthylene	360	ND	ND	ND
Anthracene	1100	ND	280.000 J	ND
Benzo(a)anthracene	2100	ND	700	38.000 J
Benzo(a)pyrene	1500	ND	590.000 J	ND
Benzo(b)fluoranthene	2700	ND	1400.000 J	63.000 J
Benzo(g,h,i)perylene	1200	ND	360.000 J	ND
Benzo(k)fluoranthene	4800	ND	2200.000 J	100.000 J
Benzoic Acid	48.000 J	ND	ND	ND
bis(2-Ethylhexyl)phthalate	43.000 J	ND	87.000 J	39.000 J
Carbazole	750	ND	140.000 J	ND
Chrysene	1700	ND	830	49.000 J
Dibenzo(a,h)anthracene	210.000 J	ND	110.000 J	ND
Dibenzofuran	990	ND	120.000 J	ND
Fluoranthene	4100	ND	2000	49.000 J
Fluorene	1200	ND	220.000 J	ND
Indeno(1,2,3-c,d)pyrene	1100	ND	360.000 J	ND
Naphthalene	1900	ND	ND	ND
Phenanthrene	5400	ND	1500	43.000 J
Phenol	40.000 J	ND	ND	ND
Pyrene	3200.000 J	ND	1600	59.000 J
VOLATILE ORGANICS (µg/kg)				
Acetone	ND	ND	55.000 J	ND

APPENDIX F.1 Tables of Validated Detected Analytes in Soil and Groundwater
Table F.1.3 Organic Compounds in Surface Soil Samples From Area 7 Soil Borings

	B13	B14	B15	B16
	Value	Value	Value	Value
PESTICIDES/PCBs (µg/kg)				
alpha-Chlordane	3.100 J	0.690 J	ND	ND
Aroclor-1248	210	ND	ND	ND
Aroclor-1254	ND	ND	38.000 J	ND
delta-BHC	0.160 J	ND	ND	ND
Dieldrin	ND	ND	0.960 J	ND
Endosulfan Sulfate	0.810 J	1.400 J	ND	ND
Endrin	ND	1.600 J	ND	ND
Endrin Aldehyde	ND	ND	ND	ND
Endrin Ketone	0.420 J	ND	ND	ND
gamma-BHC (Lindane)	0.220 J	ND	ND	ND
gamma-Chlordane	0.490 J	0.160 J	ND	ND
Heptachlor Epoxide	0.360 J	ND	0.180 J	ND
p,p'-Methoxychlor	ND	7.000 J	ND	ND

APPENDIX F.1 Tables of Validated Detected Analytes in Soil and Groundwater
Table F.1.3 Organic Compounds in Surface Soil Samples From Area 7 Soil Borings

	B13	B14	B15	B16
	Value	Value	Value	Value
SEMI-VOLATILE ORGANICS (µg/kg)				
2-Methylnaphthalene	120.000 J	93.000 J	ND	ND
Acenaphthene	110.000 J	140.000 J	360.000 J	ND
Acenaphthylene	ND	ND	ND	ND
Anthracene	210.000 J	140.000 J	270.000 J	ND
Benzo(a)anthracene	600	530	1000.000 J	ND
Benzo(a)pyrene	580	500	840.000 J	ND
Benzo(b)fluoranthene	980.000 J	1000	1900.000 J	ND
Benzo(g,h,i)perylene	150.000 J	110.000 J	160.000 J	ND
Benzo(k)fluoranthene	1500.000 J	1600	3000.000 J	ND
Benzoic Acid	ND	ND	ND	ND
bis(2-Ethylhexyl)phthalate	ND	2800	ND	ND
Butylbenzylphthalate	ND	53.000 J	ND	ND
Carbazole	120.000 J	110.000 J	220.000 J	ND
Chrysene	630	480	970.000 J	ND
Di-n-butylphthalate	ND	ND	55.000 J	ND
Dibenzo(a,h)anthracene	ND	ND	160.000 J	ND
Dibenzofuran	63.000 J	57.000 J	130.000 J	ND
Fluoranthene	1400	1200	2200.000 J	ND
Fluorene	96.000 J	98.000 J	260.000 J	ND
Indeno(1,2,3-c,d)pyrene	210.000 J	180.000 J	530.000 J	ND
Naphthalene	ND	40.000 J	91.000 J	ND
Phenanthrene	1100	800	2200.000 J	ND
Pyrene	1100	780	1600.000 J	ND
VOLATILE ORGANICS (µg/kg)				
Acetone	10.000 J	ND	ND	ND
Hexane	ND	2.000 J	ND	ND

All samples collected 0-2 feet below ground surface
µg/kg - microgram per kilogram
J - estimated
ND - not detected

APPENDIX F.1 Tables of Validated Detected Analytes in Soil and Groundwater
Table F.1.4 Organic Compounds in Subsurface Soil Samples from Area 7 Soil Borings

	B01				B02			
	MINIMUM		MAXIMUM		MINIMUM		MAXIMUM	
	Value	Depth (ft BGS)	Value	Depth (ft BGS)	Value	Depth (ft BGS)	Value	Depth (ft BGS)
EXPLOSIVES (µg/kg)								
4,4'-DDD	0.140 J	20.0-22.0	0.140 J	20.0-22.0	ND	NA	ND	NA
4,4'-DDE	0.079 J	10.0-12.0	0.160 J	5.0-7.0	ND	NA	ND	NA
PESTICIDES/PCB's (µg/kg)								
Aldrin	0.170 J	20.0-22.0	0.220 J	25.0-27.0	ND	NA	ND	NA
Endosulfan II	0.150 J	5.0-7.0	0.150 J	5.0-7.0	ND	NA	ND	NA
Endrin Aldehyde	0.840 J	5.0-7.0	0.840 J	5.0-7.0	ND	NA	ND	NA
Endrin Ketone	0.100 J	10.0-12.0	0.100 J	10.0-12.0	ND	NA	ND	NA
gamma-Chlordane	0.066 J	5.0-7.0	0.066 J	5.0-7.0	ND	NA	ND	NA
Heptachlor	0.093 J	10.0-12.0	0.093 J	10.0-12.0	ND	NA	ND	NA
SEMI-VOLATILE ORGANICS (µg/kg)								
Acenaphthene	83.000 J	5.0-7.0	83.000 J	5.0-7.0	ND	NA	ND	NA
Anthracene	120.000 J	5.0-7.0	120.000 J	5.0-7.0	ND	NA	ND	NA
Benzo(a)anthracene	240.000 J	5.0-7.0	240.000 J	5.0-7.0	ND	NA	ND	NA
Benzo(a)pyrene	210.000 J	5.0-7.0	210.000 J	5.0-7.0	ND	NA	ND	NA
Benzo(b)fluoranthene	370.000	5.0-7.0	370.000	5.0-7.0	ND	NA	ND	NA
Benzo(g,h,i)perylene	97.000 J	5.0-7.0	97.000 J	5.0-7.0	ND	NA	ND	NA
Benzo(k)fluoranthene	620.000	5.0-7.0	620.000	5.0-7.0	ND	NA	ND	NA
bis(2-Ethylhexyl)phthalate	62.000 J	30.0-32.0	62.000 J	30.0-32.0	ND	NA	ND	NA
Carbazole	72.000 J	5.0-7.0	72.000 J	5.0-7.0	ND	NA	ND	NA
Chrysene	240.000 J	5.0-7.0	240.000 J	5.0-7.0	ND	NA	ND	NA
Di-n-butylphthalate	48.000 J	5.0-7.0	99.000 J	20.0-22.0	42.000 J	5.0-7.0	42.000 J	5.0-7.0
Dibenzofuran	38.000 J	5.0-7.0	38.000 J	5.0-7.0	ND	NA	ND	NA
Fluoranthene	630.000	5.0-7.0	630.000	5.0-7.0	ND	NA	ND	NA
Fluorene	65.000 J	5.0-7.0	65.000 J	5.0-7.0	ND	NA	ND	NA
Indeno(1,2,3-c,d)pyrene	110.000 J	5.0-7.0	110.000 J	5.0-7.0	ND	NA	ND	NA
Phenanthrene	540.000	5.0-7.0	540.000	5.0-7.0	ND	NA	ND	NA
Pyrene	470.000	5.0-7.0	470.000	5.0-7.0	ND	NA	ND	NA
VOLATILE ORGANICS (µg/kg)								
Acetone	11.000 J	30.0-32.0	11.000 J	30.0-32.0	69.000 J	5.0-7.0	69.000 J	5.0-7.0

APPENDIX F.1 Tables of Validated Detected Analytes in Soil and Groundwater

Table F.1.4 Organic Compounds in Subsurface Soil Samples from Area 7 Soil Borings

	B03				B04			
	MINIMUM		MAXIMUM		MINIMUM		MAXIMUM	
	Value	Depth (ft BGS)	Value	Depth (ft BGS)	Value	Depth (ft BGS)	Value	Depth (ft BGS)
PESTICIDES/PCB's (µg/kg)								
4,4'-DDE	0.840 J	15.0-19.0	3.500 J	5.0-7.0	ND	NA	ND	NA
Dieldrin	4.500 J	5.0-7.0	4.500 J	5.0-7.0	ND	NA	ND	NA
Endrin Aldehyde	0.600 J	10.0-13.0	0.600 J	10.0-13.0	ND	NA	ND	NA
Heptachlor Epoxide	0.230 J	15.0-19.0	0.230 J	15.0-19.0	ND	NA	ND	NA
SEMI-VOLATILE ORGANICS (µg/kg)								
Anthracene	48.000 J	5.0-7.0	91.000 J	15.0-19.0	58.000 J	5.0-9.0	58.000 J	5.0-9.0
Benzo(a)anthracene	180.000 J	5.0-7.0	220.000 J	15.0-19.0	160.000 J	5.0-9.0	160.000 J	5.0-9.0
Benzo(a)pyrene	160.000 J	5.0-7.0	200.000 J	15.0-19.0	170.000 J	5.0-9.0	170.000 J	5.0-9.0
Benzo(b)fluoranthene	260.000 J	5.0-7.0	320.000 J	15.0-19.0	200.000 J	5.0-9.0	200.000 J	5.0-9.0
Benzo(g,h,i)perylene	49.000 J	5.0-7.0	73.000 J	15.0-19.0	ND	NA	ND	NA
Benzo(k)fluoranthene	450.000 J	5.0-7.0	550.000	15.0-19.0	420.000 J	5.0-9.0	420.000 J	5.0-9.0
bis(2-Ethylhexyl)phthalate	43.000 J	15.0-19.0	43.000 J	15.0-19.0	ND	NA	ND	NA
Carbazole	47.000 J	15.0-19.0	47.000 J	15.0-19.0	ND	NA	ND	NA
Chrysene	160.000 J	5.0-7.0	210.000 J	15.0-19.0	180.000 J	5.0-9.0	180.000 J	5.0-9.0
Di-n-butylphthalate	44.000 J	15.0-19.0	130.000 J	5.0-7.0	ND	NA	ND	NA
Dibenzo(a,h)anthracene	46.000 J	15.0-19.0	55.000 J	5.0-7.0	ND	NA	ND	NA
Fluoranthene	360.000 J	5.0-7.0	480.000	15.0-19.0	360.000 J	5.0-9.0	360.000 J	5.0-9.0
Fluorene	44.000 J	15.0-19.0	44.000 J	15.0-19.0	ND	NA	ND	NA
Indeno(1,2,3-c,d)pyrene	110.000 J	5.0-7.0	120.000 J	15.0-19.0	ND	NA	ND	NA
Phenanthrene	260.000 J	5.0-7.0	410.000 J	15.0-19.0	260.000 J	5.0-9.0	260.000 J	5.0-9.0
Pyrene	310.000 J	5.0-7.0	420.000	15.0-19.0	360.000 J	5.0-9.0	360.000 J	5.0-9.0
VOLATILE ORGANICS (µg/kg)								
Acetone	22.000 J	15.0-19.0	59.000 J	5.0-7.0	14.000 J	5.0-9.0	40.000 J	5.0-9.0
Acetonitrile	61.000 J	25.0-28.0	61.000 J	25.0-28.0	ND	NA	ND	NA
Methylene Chloride	150.000	15.0-19.0	150.000	15.0-19.0	ND	NA	ND	NA

APPENDIX F.1 Tables of Validated Detected Analytes in Soil and Groundwater

Table F.1.4 Organic Compounds in Subsurface Soil Samples from Area 7 Soil Borings

	B05				B06			
	MINIMUM		MAXIMUM		MINIMUM		MAXIMUM	
	Value	Depth (ft BGS)	Value	Depth (ft BGS)	Value	Depth (ft BGS)	Value	Depth (ft BGS)
PESTICIDES/PCB's (µg/kg)								
Endrin Aldehyde	0.520 J	5.0-7.0	0.520 J	5.0-7.0	ND	NA	ND	NA
SEMI-VOLATILE ORGANICS (µg/kg)								
Di-n-butylphthalate	ND	NA	ND	NA	43.000 J	5.0-10.0	43.000 J	5.0-10.0
Naphthalene	ND	NA	ND	NA	64.000 J	10.0-16.0	64.000 J	10.0-16.0

APPENDIX F.1 Tables of Validated Detected Analytes in Soil and Groundwater

Table F.1.4 Organic Compounds in Subsurface Soil Samples from Area 7 Soil Borings

	B07				B08			
	MINIMUM		MAXIMUM		MINIMUM		MAXIMUM	
	Value	Depth (ft BGS)	Value	Depth (ft BGS)	Value	Depth (ft BGS)	Value	Depth (ft BGS)
PESTICIDES/PCB's (µg/kg)								
4,4'-DDD	0.200 J	5.0-9.0	0.200 J	5.0-9.0	ND	NA	ND	NA
4,4'-DDE	0.400 J	10.0-15.0	0.840 J	5.0-9.0	ND	NA	ND	NA
4,4'-DDT	0.970 J	15.0-17.0	0.970 J	15.0-17.0	ND	NA	ND	NA
alpha-Chlordane	2.300 J	10.0-15.0	4.500 J	5.0-9.0	ND	NA	ND	NA
Aroclor-1248	190.000	15.0-17.0	190.000	15.0-17.0	ND	NA	ND	NA
Dieldrin	ND		ND		0.170 J	5.0-10.0	0.170 J	5.0-10.0
Endosulfan Sulfate	0.190 J	5.0-9.0	0.190 J	5.0-9.0	ND	NA	ND	NA
gamma-Chlordane	2.000 J	10.0-15.0	3.700 J	5.0-9.0	ND	NA	ND	NA
SEMI-VOLATILE ORGANICS (µg/kg)								
Acenaphthene	78.000 J	10.0-15.0	78.000 J	10.0-15.0	ND	NA	ND	NA
Anthracene	43.000 J	5.0-9.0	110.000 J	10.0-15.0	ND	NA	ND	NA
Benzo(a)anthracene	140.000 J	5.0-9.0	200.000 J	10.0-15.0	ND	NA	ND	NA
Benzo(a)pyrene	170.000 J	5.0-9.0	200.000 J	10.0-15.0	ND	NA	ND	NA
Benzo(b)fluoranthene	55.000 J	15.0-17.0	270.000 J	5.0-9.0	ND	NA	ND	NA
Benzo(k)fluoranthene	110.000 J	15.0-17.0	540.000 J	5.0-9.0	ND	NA	ND	NA
bis(2-Ethylhexyl)phthalate	110.000 J	10.0-15.0	110.000 J	10.0-15.0	43.000 J	5.0-10.0	110.000 J	10.0-22.0
Carbazole	60.000 J	10.0-15.0	60.000 J	10.0-15.0	ND	NA	ND	NA
Chrysene	41.000 J	15.0-17.0	180.000 J	10.0-15.0	ND	NA	ND	NA
Dibenzofuran	52.000 J	10.0-15.0	52.000 J	10.0-15.0	ND	NA	ND	NA
Fluoranthene	41.000 J	15.0-17.0	360.000 J	10.0-15.0	ND	NA	ND	NA
Fluorene	86.000 J	10.0-15.0	86.000 J	10.0-15.0	ND	NA	ND	NA
Indeno(1,2,3-c,d)pyrene	80.000 J	5.0-9.0	100.000 J	10.0-15.0	ND	NA	ND	NA
Phenanthrene	170.000 J	5.0-9.0	390.000	10.0-15.0	ND	NA	ND	NA
Phenol	42.000 J	5.0-9.0	42.000 J	5.0-9.0	ND	NA	ND	NA
Pyrene	47.000 J	15.0-17.0	400.000	10.0-15.0	ND	NA	ND	NA
VOLATILE ORGANICS (µg/kg)								
Acetone	41.000 J	15.0-17.0	49.000	5.0-9.0	ND	NA	ND	NA

APPENDIX F.1 Tables of Validated Detected Analytes in Soil and Groundwater

Table F.1.4 Organic Compounds in Subsurface Soil Samples from Area 7 Soil Borings

	B09				B10			
	MINIMUM		MAXIMUM		MINIMUM		MAXIMUM	
	Value	Depth (ft BGS)	Value	Depth (ft BGS)	Value	Depth (ft BGS)	Value	Depth (ft BGS)
PESTICIDES/PCB's (µg/kg)								
alpha-Chlordane	ND	NA	ND	NA	0.100 J	10.0-13.5	0.100 J	10.0-13.5
gamma-Chlordane	0.240 J	5.0-12.0	0.240 J	5.0-12.0	0.160 J	10.0-13.5	0.160 J	10.0-13.5
SEMI-VOLATILE ORGANICS (µg/kg)								
2-Methylnaphthalene	190.000 J	5.0-12.0	190.000 J	5.0-12.0	ND	NA	ND	NA
Acenaphthene	55.000 J	5.0-12.0	120.000 J	5.0-12.0	ND	NA	ND	NA
Acenaphthylene	60.000 J	5.0-12.0	60.000 J	5.0-12.0	ND	NA	ND	NA
Anthracene	80.000 J	5.0-12.0	250.000 J	5.0-12.0	ND	NA	ND	NA
Benzo(a)anthracene	150.000 J	5.0-12.0	330.000 J	5.0-12.0	ND	NA	ND	NA
Benzo(a)pyrene	120.000 J	5.0-12.0	310.000 J	5.0-12.0	ND	NA	ND	NA
Benzo(b)fluoranthene	230.000 J	5.0-12.0	570.000 J	5.0-12.0	ND	NA	ND	NA
Benzo(k)fluoranthene	370.000 J	5.0-12.0	960.000 J	5.0-12.0	ND	NA	ND	NA
bis(2-Ethylhexyl)phthalate	45.000 J	5.0-12.0	65.000 J	20.0-25.0	45.000 J	10.0-13.5	45.000 J	10.0-13.5
Carbazole	57.000 J	5.0-12.0	160.000 J	5.0-12.0	ND	NA	ND	NA
Chrysene	140.000 J	5.0-12.0	340.000 J	5.0-12.0	ND	NA	ND	NA
Dibenzofuran	51.000 J	5.0-12.0	220.000 J	5.0-12.0	ND	NA	ND	NA
Fluoranthene	370.000 J	5.0-12.0	910.000 J	5.0-12.0	ND	NA	ND	NA
Fluorene	66.000 J	5.0-12.0	270.000 J	5.0-12.0	ND	NA	ND	NA
Indeno(1,2,3-c,d)pyrene	56.000 J	5.0-12.0	56.000 J	5.0-12.0	ND	NA	ND	NA
Naphthalene	94.000 J	5.0-12.0	430.000 J	5.0-12.0	ND	NA	ND	NA
Phenanthrene	420.000 J	5.0-12.0	1400.000 J	5.0-12.0	ND	NA	ND	NA
Pyrene	310.000 J	5.0-12.0	760.000 J	5.0-12.0	ND	NA	ND	NA
VOLATILE ORGANICS (µg/kg)								
Acetone	18.000 J	25.0-32.0	78.000 J	20.0-25.0	28.000 J	10.0-13.5	28.000 J	10.0-13.5
Acetonitrile	120.000 J	12.0-20.0	120.000 J	12.0-20.0	ND	NA	ND	NA

APPENDIX F.1 Tables of Validated Detected Analytes in Soil and Groundwater

Table F.1.4 Organic Compounds in Subsurface Soil Samples from Area 7 Soil Borings

	B11				B12			
	MINIMUM		MAXIMUM		MINIMUM		MAXIMUM	
	Value	Depth (ft BGS)	Value	Depth (ft BGS)	Value	Depth (ft BGS)	Value	Depth (ft BGS)
EXPLOSIVES (µg/kg)								
2,4-Dinitrotoluene	ND		ND		0.850	6.0-10.0	0.850	6.0-10.0
HMX	0.240 J	10.0-15.0	0.240 J	10.0-15.0	ND	NA	ND	NA
PESTICIDES/PCB's (µg/kg)								
alpha-Chlordane	1.600 J	4.0-10.0	1.600 J	4.0-10.0	ND	NA	ND	NA
Endrin	0.440 J	4.0-10.0	0.440 J	4.0-10.0	ND	NA	ND	NA
gamma-Chlordane	1.700 J	4.0-10.0	1.700 J	4.0-10.0	ND	NA	ND	NA
SEMI-VOLATILE ORGANICS (µg/kg)								
Benzo(a)anthracene	140.000 J	4.0-10.0	140.000 J	4.0-10.0	ND	NA	ND	NA
Benzo(a)pyrene	150.000 J	4.0-10.0	150.000 J	4.0-10.0	ND	NA	ND	NA
Benzo(b)fluoranthene	98.000 J	4.0-10.0	420.000 J	4.0-10.0	ND	NA	ND	NA
Benzo(g,h,i)perylene	92.000 J	4.0-10.0	92.000 J	4.0-10.0	ND	NA	ND	NA
Benzo(k)fluoranthene	160.000 J	4.0-10.0	680.000 J	4.0-10.0	ND	NA	ND	NA
Benzoic Acid	ND	NA	ND	NA	40.000 J	6.0-10.0	40.000 J	6.0-10.0
bis(2-Ethylhexyl)phthalate	63.000 J	4.0-10.0	160.000 J	10.0-15.0	63.000 J	12.0-23.0	63.000 J	12.0-23.0
Chrysene	180.000 J	4.0-10.0	180.000 J	4.0-10.0	ND	NA	ND	NA
Fluoranthene	56.000 J	4.0-10.0	280.000 J	4.0-10.0	ND	NA	ND	NA
Indeno(1,2,3-c,d)pyrene	130.000 J	4.0-10.0	130.000 J	4.0-10.0	ND	NA	ND	NA
Phenanthrene	44.000 J	4.0-10.0	200.000 J	4.0-10.0	ND	NA	ND	NA
Pyrene	59.000 J	4.0-10.0	270.000 J	4.0-10.0	ND	NA	ND	NA
VOLATILE ORGANICS (µg/kg)								
Acetone	17.000 J	10.0-15.0	58.000 J	15.0-20.5	43.000 J	12.0-23.0	43.000 J	12.0-23.0
Tetrachloroethene	1.000 J	4.0-10.0	1.000 J	4.0-10.0	ND	NA	ND	NA
Toluene	1.000 J	4.0-10.0	4.000 J	4.0-10.0	ND	NA	ND	NA

APPENDIX F.1 Tables of Validated Detected Analytes in Soil and Groundwater

Table F.1.4 Organic Compounds in Subsurface Soil Samples from Area 7 Soil Borings

	B13				B14			
	MINIMUM		MAXIMUM		MINIMUM		MAXIMUM	
	Value	Depth (ft BGS)	Value	Depth (ft BGS)	Value	Depth (ft BGS)	Value	Depth (ft BGS)
EXPLOSIVES (µg/kg)								
HMX	0.720 J	10.0-16.0	0.720 J	10.0-16.0	ND	NA	ND	NA
RDX	0.770 J	10.0-16.0	0.770 J	10.0-16.0	ND	NA	ND	NA
PESTICIDES/PCB's (µg/kg)								
4,4'-DDT	0.190 J	5.0-10.0	0.190 J	5.0-10.0	ND	NA	ND	NA
alpha-Chlordane	1.400 J	5.0-10.0	1.400 J	5.0-10.0	ND	NA	ND	NA
Aroclor-1253	ND	NA	ND	NA	200.000	25.0-30.0	270.000	25.0-30.0
Aroclor-1254	110.000	5.0-10.0	110.000	5.0-10.0	79.000	12.0-18.0	540.000	25.0-30.0
delta-BHC	0.200 J	5.0-10.0	0.200 J	5.0-10.0	ND	NA	ND	NA
Endosulfan Sulfate	0.250 J	5.0-10.0	0.250 J	5.0-10.0	ND	NA	ND	NA
Endrin Ketone	0.210 J	5.0-10.0	0.210 J	5.0-10.0	ND	NA	ND	NA
gamma-BHC (Lindane)	ND	NA	ND	NA	0.860	25.0-30.0	0.860	25.0-30.0
Heptachlor Epoxide	0.120 J	5.0-10.0	0.120 J	5.0-10.0	ND	NA	ND	NA
SEMI-VOLATILE ORGANICS (µg/kg)								
2-Methylnaphthalene	39.000 J	5.0-10.0	39.000 J	5.0-10.0	ND	NA	ND	NA
Acenaphthene	180.000 J	5.0-10.0	180.000 J	5.0-10.0	ND	NA	ND	NA
Anthracene	380.000 J	5.0-10.0	380.000 J	5.0-10.0	ND	NA	ND	NA
Benzo(a)anthracene	1100.000	5.0-10.0	1100.000	5.0-10.0	73.000 J	25.0-30.0	73.000 J	25.0-30.0
Benzo(a)pyrene	890.000	5.0-10.0	890.000	5.0-10.0	ND	NA	ND	NA
Benzo(b)fluoranthene	1500.000	5.0-10.0	1500.000	5.0-10.0	130.000 J	25.0-30.0	130.000 J	25.0-30.0
Benzo(g,h,i)perylene	370.000 J	5.0-10.0	370.000 J	5.0-10.0	ND	NA	ND	NA
Benzo(k)fluoranthene	2800.000	5.0-10.0	2800.000	5.0-10.0	52.000 J	12.0-18.0	210.000 J	25.0-30.0
Benzoic Acid	46.000 J	25.0-28.0	92.000 J	20.0-25.0	63.000 J	25.0-30.0	63.000 J	25.0-30.0
bis(2-Ethylhexyl)phthalate	86.000 J	5.0-10.0	86.000 J	5.0-10.0	700.000	25.0-30.0	780.000	25.0-30.0
Carbazole	260.000 J	5.0-10.0	260.000 J	5.0-10.0	ND	NA	ND	NA
Chrysene	1100.000	5.0-10.0	1100.000	5.0-10.0	79.000 J	25.0-30.0	79.000 J	25.0-30.0
Dibenzo(a,h)anthracene	160.000 J	5.0-10.0	160.000 J	5.0-10.0	ND	NA	ND	NA
Dibenzofuran	120.000 J	5.0-10.0	120.000 J	5.0-10.0	ND	NA	ND	NA
Fluoranthene	2100.000	5.0-10.0	2100.000	5.0-10.0	37.000 J	12.0-18.0	150.000 J	25.0-30.0
Fluorene	210.000 J	5.0-10.0	210.000 J	5.0-10.0	ND	NA	ND	NA
Indeno(1,2,3-c,d)pyrene	520.000	5.0-10.0	520.000	5.0-10.0	ND	NA	ND	NA
Phenanthrene	2100.000	5.0-10.0	2100.000	5.0-10.0	170.000 J	25.0-30.0	170.000 J	25.0-30.0
Pyrene	2600.000	5.0-10.0	2600.000	5.0-10.0	110.000 J	25.0-30.0	110.000 J	25.0-30.0

APPENDIX F.1 Tables of Validated Detected Analytes in Soil and Groundwater

Table F.1.4 Organic Compounds in Subsurface Soil Samples from Area 7 Soil Borings

	B13 (C0NT)				B14 (C0NT)			
	MINIMUM		MAXIMUM		MINIMUM		MAXIMUM	
	Value	Depth (ft BGS)	Value	Depth (ft BGS)	Value	Depth (ft BGS)	Value	Depth (ft BGS)
VOLATILE ORGANICS (µg/kg)								
1,2-Diethylbenzene	ND	NA	ND	NA	13.000	22.0-24.0	13.000	22.0-24.0
Acetone	11.000	5.0-10.0	78.000	25.0-28.0	ND	NA	ND	NA
Hexane	ND	NA	ND	NA	1.000 J	12.0-18.0	42.000	25.0-30.0
Toluene	ND	NA	ND	NA	2.000 J	22.0-24.0	3.000 J	25.0-30.0

APPENDIX F.1 Tables of Validated Detected Analytes in Soil and Groundwater

Table F.1.4 Organic Compounds in Subsurface Soil Samples from Area 7 Soil Borings

	B15				B16			
	MINIMUM		MAXIMUM		MINIMUM		MAXIMUM	
	Value	Depth (ft BGS)	Value	Depth (ft BGS)	Value	Depth (ft BGS)	Value	Depth (ft BGS)
EXPLOSIVES (µg/kg)								
HMX	0.130 J	10.0-16.0	0.240 J	10.0-16.0	NS	NA	NS	NA
RDX	0.190 J	10.0-16.0	0.190 J	10.0-16.0	NS	NA	NS	NA
PESTICIDES/PCB's (µg/kg)								
Aroclor-1254	14.000 J	6.0-10.0	14.000 J	6.0-10.0	NS	NA	NS	NA
Endosulfan Sulfate	0.730 J	6.0-10.0	0.730 J	6.0-10.0	NS	NA	NS	NA
Endrin	1.300 J	2.0-6.0	1.300 J	2.0-6.0	NS	NA	NS	NA
gamma-Chlordane	0.480 J	2.0-6.0	0.480 J	2.0-6.0	NS	NA	NS	NA
SEMI-VOLATILE ORGANICS (µg/kg)								
Benzo(a)anthracene	100.000 J	2.0-6.0	100.000 J	2.0-6.0	NS	NA	NS	NA
Benzo(b)fluoranthene	82.000 J	6.0-10.0	200.000 J	2.0-6.0	NS	NA	NS	NA
Benzo(k)fluoranthene	140.000 J	6.0-10.0	340.000 J	2.0-6.0	NS	NA	NS	NA
Chrysene	100.000 J	2.0-6.0	100.000 J	2.0-6.0	NS	NA	NS	NA
Di-n-butylphthalate	100.000 J	6.0-10.0	120.000 J	10.0-16.0	NS	NA	NS	NA
Fluoranthene	130.000 J	6.0-10.0	210.000 J	2.0-6.0	NS	NA	NS	NA
Naphthalene	140.000 J	10.0-16.0	140.000 J	10.0-16.0	NS	NA	NS	NA
Phenanthrene	98.000 J	6.0-10.0	150.000 J	2.0-6.0	NS	NA	NS	NA
Pyrene	81.000 J	10.0-16.0	190.000 J	2.0-6.0	NS	NA	NS	NA
VOLATILE ORGANICS (µg/kg)								
2-Butanone	ND	NA	ND	NA	110.000	26.0-30.0	110.000	26.0-30.0
Acetone	51.000 J	10.0-16.0	51.000 J	10.0-16.0	ND	NA	ND	NA
Toluene	ND	NA	ND	NA	2.000 J	26.0-30.0	2.000 J	26.0-30.0

µg/kg - microgram per kilogram
J - estimated
ND - not detected
NA - not applicable
NS - not sampled
ft BGS - feet below ground surface

APPENDIX F.1 Tables of Validated Detected Analytes in Soil and Groundwater

Table F.1.5 Inorganic Compounds in Surface Soil Samples from Area 7 Soil Borings

	B01	B02	B03	B04
	Value	Value	Value	Value
ANIONS (mg/kg)				
Chloride	55.400 J	153.000 J	69.5	61.6
Fluoride	2.330 J	8.320 J	2.64	4.090 J
Sulfate	208.000 J	250.000 J	67.6	222.000 J
Nitrate-Nitrite-N	1.080 J	ND	ND	ND
TOTAL ORGANIC CARBON (mg/kg)				
Organic Carbon	18300	27700	102000	21200
METALS (mg/kg)				
Aluminum	7800.000 J	2440.000 J	2760.000 J	6510.000 J
Antimony	2.100 J	2.600 J	3.000 J	2.100 J
Arsenic	8.000 J	4.200 J	4.200 J	11.500 J
Barium	50.900 J	11.700 J	22.000 J	46.400 J
Beryllium	0.38	0.12	0.14	0.35
Bismuth	141	ND	ND	ND
Cadmium	0.220 J	ND	ND	ND
Calcium	69600	171000	151000	171000
Chromium	10.100 J	4.200 J	11.500 J	8.700 J
Cobalt	5.500 J	1.900 J	2.600 J	5.700 J
Copper	13	4.4	6.8	13
Iron	12000	4870.000 J	6110.000 J	11600
Lead	9.800 J	5.000 J	8.800 J	11.900 J
Lithium	10.500 J	ND	6.400 J	11.200 J
Magnesium	35600	89900	60300	27600
Manganese	367.000 J	163.000 J	219.000 J	401.000 J
Mercury	ND	ND	ND	ND
Molybdenum	2.000 J	ND	ND	3.600 J
Nickel	11.4	4.3	9.3	11
Potassium	1090.000 J	701.000 J	694.000 J	1030.000 J
Sodium	170	369	260	205
Tin	ND	ND	ND	ND
Vanadium	16.600 J	6.100 J	14.300 J	12.200 J
Zinc	44.600 J	12.000 J	17.600 J	37.300 J

APPENDIX F.1 Tables of Validated Detected Analytes in Soil and Groundwater
Table F.1.5 Inorganic Compounds in Surface Soil Samples from Area 7 Soil Borings

	B01	B02	B03	B04
	Value	Value	Value	Value
LANTHANIDES (mg/kg)				
Erbium	ND	7.500 J	ND	7.200 J
Europium	ND	ND	ND	1.4
Gadolinium	53.900 J	ND	ND	ND
Lanthanum	7.2	ND	6.1	9.7
Neodymium	ND	ND	16.9	13.2
Praseodymium	ND	13.6	13.8	ND

APPENDIX F.1 Tables of Validated Detected Analytes in Soil and Groundwater

Table F.1.5 Inorganic Compounds in Surface Soil Samples from Area 7 Soil Borings

	B05	B06	B07	B08
	Value	Value	Value	Value
ANIONS (mg/kg)				
Chloride	ND	100.000 J	335.000 J	53.400 J
Fluoride	3.880 J	8.31	38.800 J	2.950 J
Sulfate	135.000 J	73.100 J	764.000 J	257.000 J
Nitrate-Nitrite-N	1.980 J	0.522	1.800 J	3.86
TOTAL ORGANIC CARBON (mg/kg)				
Organic Carbon	13400	21400	8320	7850.000 J
METALS (mg/kg)				
Aluminum	15500	9410.000 J	9350.000 J	5630.000 J
Antimony	2.600 J	ND	3.300 J	ND
Arsenic	6.900 J	3.400 J	5.200 J	2.5
Barium	82.100 J	36.200 J	58.400 J	12.2
Beryllium	0.8	0.430 J	0.48	0.280 J
Bismuth	10.5	33	15.8	0.880 J
Cadmium	ND	ND	ND	0.260 J
Calcium	43200	46400	97700	245000
Chromium	16.400 J	ND	11.500 J	6.800 J
Cobalt	12.000 J	ND	7.300 J	4.700 J
Copper	17	ND	13.9	3.100 J
Iron	23400	15900	14600	9650.000 J
Lead	14.800 J	6.600 J	12.900 J	4.600 J
Lithium	20.100 J	19.3	16.900 J	19.300 J
Magnesium	8870.000 J	14000	24500	17100
Manganese	756.000 J	405.000 J	373.000 J	495.000 J
Mercury	ND	0.460 J	ND	ND
Molybdenum	4.900 J	9.000 J	3.800 J	0.200 J
Nickel	20.5	ND	14	7.300 J
Potassium	2070.000 J	1850	1810.000 J	3030.000 J
Silver	ND	ND	0.530 J	ND
Sodium	113	ND	363	239
Tin	ND	3.5	ND	ND
Vanadium	25.100 J	ND	16.600 J	9.400 J
Zinc	52.700 J	36.400 J	45.900 J	22.7

APPENDIX F.1 Tables of Validated Detected Analytes in Soil and Groundwater
Table F.1.5 Inorganic Compounds in Surface Soil Samples from Area 7 Soil Borings

	B05	B06	B07	B08
	Value	Value	Value	Value
LANTHANIDES (mg/kg)				
Cerium	ND	44.7	ND	23.3
Dysprosium	4.5	ND	3.5	ND
Erbium	ND	ND	8.400 J	ND
Europium	1.6	ND	1.4	ND
Gadolinium	28.900 J	ND	ND	ND
Holmium	ND	ND	2	ND
Lanthanum	15.7	ND	9.1	ND
Neodymium	26.2	29.9	19.2	32
Praseodymium	ND	ND	51.8	ND
Samarium	ND	ND	18.6	ND
Terbium	ND	ND	13.6	ND
Ytterbium	ND	ND	3.4	ND

APPENDIX F.1 Tables of Validated Detected Analytes in Soil and Groundwater
Table F.1.5 Inorganic Compounds in Surface Soil Samples from Area 7 Soil Borings

	B09	B10	B11	B12
	Value	Value	Value	Value
ANIONS (mg/kg)				
Chloride	156.000 J	55.400 J	166.000 J	382.000 J
Fluoride	7.390 J	5.890 J	5.830 J	3.860 J
Sulfate	140.000 J	132.000 J	259.000 J	89.800 J
Nitrate-Nitrite-N	2.8	1.5	0.972	1.1
TOTAL ORGANIC CARBON (mg/kg)				
Organic Carbon	21900	8360.000 J	29800	14900
METALS (mg/kg)				
Aluminum	7480.000 J	15500	8120.000 J	2340.000 J
Arsenic	2.9	2.8	4	6.4
Barium	26.8	39.1	35.4	49
Beryllium	0.350 J	0.670 J	0.380 J	0.130 J
Bismuth	0.460 J	ND	ND	0.520 J
Cadmium	0.320 J	0.200 J	0.240 J	0.240 J
Calcium	166000	97400	114000	148000
Chromium	10.600 J	16.400 J	10.100 J	6.900 J
Cobalt	4.500 J	8.800 J	6.100 J	2.100 J
Copper	3.800 J	5.300 J	6.200 J	3.800 J
Iron	10600	22500	13900	5570.000 J
Lead	6.100 J	7.000 J	9.000 J	6.200 J
Lithium	21.100 J	32.700 J	20.800 J	ND
Magnesium	45900	12000	25900	51700
Manganese	326.000 J	407.000 J	385.000 J	348.000 J
Molybdenum	0.190 J	ND	0.480 J	1.500 J
Nickel	7.600 J	13.400 J	10.400 J	5.600 J
Potassium	3930.000 J	4990.000 J	2310.000 J	940.000 J
Silver	ND	ND	0.33	ND
Sodium	351	209	370	705
Tin	ND	6.3	ND	ND
Vanadium	10.900 J	18.500 J	13.700 J	7.000 J
Zinc	27.4	48.3	40.2	16.8

APPENDIX F.1 Tables of Validated Detected Analytes in Soil and Groundwater
Table F.1.5 Inorganic Compounds in Surface Soil Samples from Area 7 Soil Borings

	B09	B10	B11	B12
	Value	Value	Value	Value
LANTHANIDES (mg/kg)				
Cerium	12.7	35.9	25.1	ND
Gadolinium	ND	65.9	ND	ND
Neodymium	14.8	18	20.7	ND

APPENDIX F.1 Tables of Validated Detected Analytes in Soil and Groundwater

Table F.1.5 Inorganic Compounds in Surface Soil Samples from Area 7 Soil Borings

	B13	B14	B15	B16
	Value	Value	Value	Value
ANIONS (mg/kg)				
Chloride	54.700 J	101	52.800 J	ND
Fluoride	1.320 J	1.58	8.570 J	ND
Sulfate	464.000 J	266.000 J	253	ND
Nitrate-Nitrite-N	ND	0.978	2.13	ND
TOTAL ORGANIC CARBON (mg/kg)				
Organic Carbon	24200	6820	8580	ND
METALS (mg/kg)				
Aluminum	4320.000 J	67000	9190.000 J	ND
Antimony	3.100 J	2.800 J	ND	ND
Arsenic	3.900 J	2.800 J	5.800 J	ND
Barium	27.500 J	17.500 J	52.400 J	ND
Beryllium	0.21	0.2	0.420 J	ND
Bismuth	ND	ND	31.9	ND
Calcium	141000	185000	74900	ND
Chromium	8.400 J	5.500 J	ND	ND
Cobalt	3	2.5	ND	ND
Copper	27.000 J	7.400 J	ND	ND
Iron	7950.000 J	6740.000 J	16700	ND
Lead	14.300 J	7.7	23.600 J	ND
Lithium	8.100 J	7.100 J	18.2	ND
Magnesium	77200	66900	31800	ND
Manganese	244.000 J	249.000 J	434.000 J	ND
Mercury	ND	ND	0.3	ND
Molybdenum	ND	ND	10.800 J	ND
Nickel	7.3	5.9	ND	ND
Potassium	928.000 J	888.000 J	2310	ND
Silver	0.790 J	0.220 J	0.2	ND
Sodium	262	302	ND	ND
Vanadium	11.300 J	8.200 J	ND	ND
Zinc	43.500 J	23.000 J	56.000 J	ND

APPENDIX F.1 Tables of Validated Detected Analytes in Soil and Groundwater
Table F.1.5 Inorganic Compounds in Surface Soil Samples from Area 7 Soil Borings

	B13	B14	B15	B16
	Value	Value	Value	Value
LANTHANIDES (mg/kg)				
Cerium	ND	ND	30.2	ND
Dysprosium	2.4	2.5	ND	ND
Erbium	ND	6.700 J	ND	ND
Europium	0.87	0.89	ND	ND
Gadolinium	ND	ND	106	ND
Holmium	ND	ND	ND	ND
Lanthanum	ND	ND	ND	ND
Neodymium	20.3	16.9	24.1	ND
Praseodymium	ND	22.4	ND	ND
Samarium	17.8	18.3	ND	ND
Terbium	13	13.4	ND	ND
Ytterbium	3.3	3.3	ND	ND

All samples collected 0-2 feet below ground surface
mg/kg - milligrams per kilogram
J - estimated
ND - not detected

APPENDIX F.1 Tables of Validated Detected Analytes in Soil and Groundwater

Table F.1.6 Inorganic Compounds in Subsurface Soil Samples from Area 7 Soil Borings

	B01				B02			
	MINIMUM		MAXIMUM		MINIMUM		MAXIMUM	
	Value	Depth (ft BGS)	Value	Depth (ft BGS)	Value	Depth (ft BGS)	Value	Depth (ft BGS)
ANIONS (mg/kg)								
Chloride	37.500 J	20.0-22.0	104.000 J	10.0-12.0	173.000 J	5.0-7.0	173.000 J	5.0-7.0
Fluoride	2.490 J	25.0-27.0	4.850 J	10.0-12.0	6.150 J	5.0-7.0	6.150 J	5.0-7.0
Sulfate	121.000 J	30.0-32.0	321.000 J	15.0-17.0	186.000 J	5.0-7.0	186.000 J	5.0-7.0
Nitrate-Nitrite-N	2.640 J	25.0-27.0	44.700 J	10.0-12.0	6.310 J	5.0-7.0	6.310 J	5.0-7.0
TOTAL ORGANIC CARBON (mg/kg)								
Organic Carbon	4540.000 J	10.0-12.0	16600.000	30.0-32.0	2580.000 J	5.0-7.0	6010.000 J	5.0-7.0
METALS (mg/kg)								
Aluminum	2950.000 J	20.0-22.0	16500.000	10.0-12.0	14400.000	5.0-7.0	14400.000	5.0-7.0
Antimony	2.600 J	25.0-27.0	3.100 J	10.0-12.0	2.300 J	5.0-7.0	2.300 J	5.0-7.0
Arsenic	3.600 J	10.0-12.0	7.900 J	15.0-17.0	3.500 J	5.0-7.0	3.500 J	5.0-7.0
Barium	29.500 J	20.0-22.0	44.000 J	10.0-12.0	17.200 J	5.0-7.0	17.200 J	5.0-7.0
Beryllium	0.160	20.0-22.0	0.800	10.0-12.0	0.690	5.0-7.0	0.690	5.0-7.0
Bismuth	14.300	5.0-7.0	14.800	10.0-12.0	11.200	5.0-7.0	11.200	5.0-7.0
Calcium	57200.000	10.0-12.0	144000.000	5.0-7.0	40300.000	5.0-7.0	40300.000	5.0-7.0
Chromium	4.700 J	20.0-22.0	18.000 J	10.0-12.0	17.100 J	5.0-7.0	17.100 J	5.0-7.0
Cobalt	3.700 J	20.0-22.0	12.600 J	10.0-12.0	13.900 J	5.0-7.0	13.900 J	5.0-7.0
Copper	8.700	20.0-22.0	31.400	5.0-7.0	21.200	5.0-7.0	21.200	5.0-7.0
Iron	7300.000 J	20.0-22.0	24100.000	10.0-12.0	25200.000	5.0-7.0	25200.000	5.0-7.0
Lead	5.600 J	20.0-22.0	13.700 J	5.0-7.0	5.700 J	5.0-7.0	5.700 J	5.0-7.0
Lithium	8.700 J	20.0-22.0	8.700 J	20.0-22.0	ND	NA	ND	NA
Magnesium	10700.000	10.0-12.0	50600.000	20.0-22.0	15000.000	5.0-7.0	15000.000	5.0-7.0
Manganese	203.000 J	20.0-22.0	644.000 J	10.0-12.0	536.000 J	5.0-7.0	536.000 J	5.0-7.0
Mercury	0.310	5.0-7.0	0.310	5.0-7.0	ND	NA	ND	NA
Nickel	8.100	20.0-22.0	22.600	10.0-12.0	24.000	5.0-7.0	24.000	5.0-7.0
Potassium	788.000 J	20.0-22.0	3690.000 J	10.0-12.0	3290.000 J	5.0-7.0	3290.000 J	5.0-7.0
Sodium	142.000	25.0-27.0	297.000	10.0-12.0	351.000	5.0-7.0	351.000	5.0-7.0
Vanadium	7.000 J	20.0-22.0	20.400 J	10.0-12.0	16.100 J	5.0-7.0	16.100 J	5.0-7.0
Zinc	23.800 J	20.0-22.0	52.500 J	10.0-12.0	54.900 J	5.0-7.0	54.900 J	5.0-7.0

APPENDIX F.1 Tables of Validated Detected Analytes in Soil and Groundwater
Table F.1.6 Inorganic Compounds in Subsurface Soil Samples from Area 7 Soil Borings

	B01 (CONT)				B02 (CONT)			
	MINIMUM		MAXIMUM		MINIMUM		MAXIMUM	
	Value	Depth (ft BGS)	Value	Depth (ft BGS)	Value	Depth (ft BGS)	Value	Depth (ft BGS)
LANTHANIDES (mg/kg)								
Dysprosium	2.700	5.0-7.0	2.700	5.0-7.0	3.800	5.0-7.0	3.800	5.0-7.0
Erbium	6.800 J	30.0-32.0	6.800 J	30.0-32.0	ND	NA	ND	NA
Europium	0.900	20.0-22.0	1.400	5.0-7.0	1.800	5.0-7.0	1.800	5.0-7.0
Lanthanum	5.500	15.0-17.0	11.500	5.0-7.0	14.500	5.0-7.0	14.500	5.0-7.0
Lutetium	0.610	20.0-22.0	0.610	20.0-22.0	ND	NA	ND	NA
Neodymium	ND	NA	ND	NA	20.000	5.0-7.0	20.000	5.0-7.0
Praseodymium	61.100	10.0-12.0	61.100	10.0-12.0	97.500	5.0-7.0	97.500	5.0-7.0

APPENDIX F.1 Tables of Validated Detected Analytes in Soil and Groundwater

Table F.1.6 Inorganic Compounds in Subsurface Soil Samples from Area 7 Soil Borings

	B03				B04			
	MINIMUM		MAXIMUM		MINIMUM		MAXIMUM	
	Value	Depth (ft BGS)	Value	Depth (ft BGS)	Value	Depth (ft BGS)	Value	Depth (ft BGS)
ANIONS (mg/kg)								
Chloride	80.000	5.0-7.0	128.000	15.0-19.0	62.200	5.0-9.0	69.700	5.0-9.0
Fluoride	2.490	25.0-28.0	4.920	15.0-19.0	2.740 J	5.0-9.0	5.580 J	5.0-9.0
Sulfate	116.000	25.0-28.0	513.000	10.0-13.0	159.000 J	5.0-9.0	621.000 J	5.0-9.0
Nitrate-Nitrite-N	1.180 J	15.0-19.0	1.180 J	15.0-19.0	26.500 J	5.0-9.0	26.500 J	5.0-9.0
TOTAL ORGANIC CARBON (mg/kg)								
Organic Carbon	847.000 J	15.0-19.0	19100.000	5.0-7.0	460.000 J	5.0-9.0	3900.000 J	5.0-9.0
METALS (mg/kg)								
Aluminum	7340.000 J	5.0-7.0	12200.000	10.0-13.0	12700.000	5.0-9.0	14800.000	5.0-9.0
Antimony	2.300 J	10.0-13.0	3.000 J	15.0-19.0	2.200 J	5.0-9.0	3.500 J	5.0-9.0
Arsenic	2.600 J	15.0-19.0	21.500	10.0-13.0	4.500 J	5.0-9.0	26.600	5.0-9.0
Barium	19.000 J	10.0-13.0	61.500 J	25.0-28.0	22.000 J	5.0-9.0	44.600 J	5.0-9.0
Beryllium	0.370	5.0-7.0	0.630	10.0-13.0	0.630	5.0-9.0	0.730	5.0-9.0
Bismuth	8.500	25.0-28.0	10.100	15.0-19.0	10.700	5.0-9.0	12.000	5.0-9.0
Calcium	39600.000	25.0-28.0	121000.000	15.0-19.0	57600.000	5.0-9.0	69800.000	5.0-9.0
Chromium	9.900 J	5.0-7.0	13.900 J	10.0-13.0	15.400 J	5.0-9.0	16.400 J	5.0-9.0
Cobalt	5.800 J	5.0-7.0	10.800 J	10.0-13.0	11.900	5.0-9.0	13.600 J	5.0-9.0
Copper	10.100	10.0-13.0	17.400	25.0-28.0	17.200	5.0-9.0	20.500	5.0-9.0
Iron	12400.000	5.0-7.0	20800.000	10.0-13.0	21500.000	5.0-9.0	24500.000	5.0-9.0
Lead	5.900 J	15.0-19.0	15.800 J	5.0-7.0	8.200 J	5.0-9.0	15.400 J	5.0-9.0
Magnesium	13900.000	15.0-19.0	36100.000	5.0-7.0	7540.000 J	5.0-9.0	13600.000	5.0-9.0
Manganese	317.000 J	5.0-7.0	420.000 J	15.0-19.0	572.000 J	5.0-9.0	588.000 J	5.0-9.0
Nickel	12.100	5.0-7.0	19.500	10.0-13.0	22.900	5.0-9.0	23.100	5.0-9.0
Potassium	1230.000 J	5.0-7.0	3080.000 J	10.0-13.0	1560.000 J	5.0-9.0	3100.000 J	5.0-9.0
Sodium	206.000	10.0-13.0	346.000	5.0-7.0	185.000	5.0-9.0	208.000	5.0-9.0
Vanadium	11.700 J	15.0-19.0	21.200 J	25.0-28.0	15.100 J	5.0-9.0	17.000 J	5.0-9.0
Zinc	37.200 J	5.0-7.0	46.100 J	25.0-28.0	48.500 J	5.0-9.0	50.800 J	5.0-9.0
LANTHANIDES (mg/kg)								
Dysprosium	4.000	25.0-28.0	4.100	15.0-19.0	3.800	5.0-9.0	3.900	5.0-9.0
Erbium	8.000 J	5.0-7.0	8.000 J	5.0-7.0	ND	NA	ND	NA
Europium	1.100	15.0-19.0	1.400	5.0-7.0	1.700	5.0-9.0	1.800	5.0-9.0
Lanthanum	6.000	5.0-7.0	9.000	15.0-19.0	12.100	5.0-9.0	15.100	5.0-9.0
Lutetium	0.630	5.0-7.0	0.990	10.0-13.0	0.960	5.0-9.0	0.960	5.0-9.0
Neodymium	14.700	10.0-13.0	17.700	15.0-19.0	23.200	5.0-9.0	27.100	5.0-9.0
Praseodymium	44.300	5.0-7.0	60.200	15.0-19.0	ND	NA	ND	NA

APPENDIX F.1 Tables of Validated Detected Analytes in Soil and Groundwater

Table F.1.6 Inorganic Compounds in Subsurface Soil Samples from Area 7 Soil Borings

	B05				B06			
	MINIMUM		MAXIMUM		MINIMUM		MAXIMUM	
	Value	Depth (ft BGS)	Value	Depth (ft BGS)	Value	Depth (ft BGS)	Value	Depth (ft BGS)
ANIONS (mg/kg)								
Chloride	54.600	5.0-7.0	54.600	5.0-7.0	47.100 J	5.0-10.0	62.000 J	10.0-16.0
Fluoride	8.830 J	5.0-7.0	8.830 J	5.0-7.0	10.300	5.0-10.0	19.600	10.0-16.0
Sulfate	275.000 J	5.0-7.0	275.000 J	5.0-7.0	96.800 J	10.0-16.0	116.000 J	5.0-10.0
Nitrate-Nitrite-N	ND	NA	ND	NA	0.689	5.0-10.0	0.836	10.0-16.0
TOTAL ORGANIC CARBON (mg/kg)								
Organic Carbon	1630.000 J	5.0-7.0	5630.000 J	5.0-7.0	2530.000	5.0-10.0	7350.000	10.0-16.0
METALS (mg/kg)								
Aluminum	14100.000	5.0-7.0	14100.000	5.0-7.0	9900.000 J	10.0-16.0	11200.000	5.0-10.0
Arsenic	3.200 J	5.0-7.0	3.200 J	5.0-7.0	1.500 J	5.0-10.0	2.900 J	10.0-16.0
Barium	15.600 J	5.0-7.0	15.600 J	5.0-7.0	14.700 J	10.0-16.0	16.800 J	5.0-10.0
Beryllium	0.690	5.0-7.0	0.690	5.0-7.0	0.460 J	10.0-16.0	0.520 J	5.0-10.0
Bismuth	10.500	5.0-7.0	10.500	5.0-7.0	27.000	5.0-10.0	30.300	10.0-16.0
Calcium	44100.000	5.0-7.0	44100.000	5.0-7.0	42700.000	5.0-10.0	60400.000	10.0-16.0
Chromium	16.300 J	5.0-7.0	16.300 J	5.0-7.0	ND	NA	ND	
Cobalt	12.600 J	5.0-7.0	12.600 J	5.0-7.0	ND	NA	ND	
Copper	17.200	5.0-7.0	17.200	5.0-7.0	ND	NA	ND	NA
Iron	24300.000	5.0-7.0	24300.000	5.0-7.0	18400.000	5.0-10.0	18700.000	10.0-16.0
Lead	6.800 J	5.0-7.0	6.800 J	5.0-7.0	2.400 J	5.0-10.0	7.200 J	10.0-16.0
Magnesium	14300.000	5.0-7.0	14300.000	5.0-7.0	6930.000 J	10.0-16.0	8920.000 J	5.0-10.0
Manganese	557.000 J	5.0-7.0	557.000 J	5.0-7.0	400.000 J	5.0-10.0	684.000 J	10.0-16.0
Mercury	ND		ND		0.310	10.0-16.0	0.390	5.0-10.0
Nickel	24.300	5.0-7.0	24.300	5.0-7.0	ND	NA	ND	NA
Potassium	3010.000 J	5.0-7.0	3010.000 J	5.0-7.0	3090.000	5.0-10.0	3190.000	10.0-16.0
Sodium	151.000	5.0-7.0	151.000	5.0-7.0	ND	NA	ND	NA
Tin	ND		ND		4.600	5.0-10.0	4.600	5.0-10.0
Vanadium	15.900 J	5.0-7.0	15.900 J	5.0-7.0	ND	NA	ND	NA
Zinc	50.400 J	5.0-7.0	50.400 J	5.0-7.0	38.000 J	10.0-16.0	42.900 J	5.0-10.0
LANTHANIDES (mg/kg)								
Cerium	ND	NA	ND	NA	39.500	5.0-10.0	44.600	10.0-16.0
Europium	2.000	5.0-7.0	2.000	5.0-7.0	ND	NA	ND	NA
Gadolinium	22.400 J	5.0-7.0	22.400 J	5.0-7.0	ND	NA	ND	NA
Lanthanum	13.600	5.0-7.0	13.600	5.0-7.0	ND	NA	ND	NA
Lutetium	0.920	5.0-7.0	0.920	5.0-7.0	ND	NA	ND	NA
Neodymium	16.700	5.0-7.0	16.700	5.0-7.0	23.600	10.0-16.0	28.700	5.0-10.0

APPENDIX F.1 Tables of Validated Detected Analytes in Soil and Groundwater

Table F.1.6 Inorganic Compounds in Subsurface Soil Samples from Area 7 Soil Borings

	B07				B08			
	MINIMUM		MAXIMUM		MINIMUM		MAXIMUM	
	Value	Depth (ft BGS)	Value	Depth (ft BGS)	Value	Depth (ft BGS)	Value	Depth (ft BGS)
ANIONS (mg/kg)								
Chloride	58.400 J	15.0-17.0	202.000 J	5.0-9.0	35.600 J	10.0-22.0	64.200 J	5.0-10.0
Fluoride	3.440 J	5.0-9.0	4.840 J	10.0-15.0	3.600 J	5.0-10.0	5.040 J	10.0-22.0
Sulfate	398.000 J	10.0-15.0	464.000 J	5.0-9.0	127.000 J	10.0-22.0	166.000 J	5.0-10.0
Nitrate-Nitrite-N	0.798	15.0-17.0	0.798	15.0-17.0	1.100	5.0-10.0	1.440	10.0-22.0
TOTAL ORGANIC CARBON (mg/kg)								
Organic Carbon	2720.000	10.0-15.0	32000.000	5.0-9.0	1380.000 J	10.0-22.0	7470.000 J	10.0-22.0
METALS (mg/kg)								
Aluminum	8070.000 J	5.0-9.0	12500.000	15.0-17.0	11900.000	10.0-22.0	12700.000	5.0-10.0
Antimony	2.400 J	5.0-9.0	2.600 J	15.0-17.0	ND	NA	ND	NA
Arsenic	3.100 J	10.0-15.0	19.700	15.0-17.0	2.100	5.0-10.0	2.600	10.0-22.0
Barium	43.500 J	15.0-17.0	48.800 J	10.0-15.0	30.500	5.0-10.0	36.800	10.0-22.0
Beryllium	0.400	5.0-9.0	0.560	15.0-17.0	0.540 J	10.0-22.0	0.610 J	5.0-10.0
Bismuth	16.200 J	15.0-17.0	21.400	5.0-9.0	ND	NA	ND	NA
Cadmium	ND	NA	ND	NA	0.210 J	5.0-10.0	0.210 J	5.0-10.0
Calcium	79200.000	15.0-17.0	157000.000	5.0-9.0	121000.000	5.0-10.0	165000.000	10.0-22.0
Chromium	9.200 J	5.0-9.0	14.100 J	15.0-17.0	13.900 J	5.0-10.0	14.900 J	10.0-22.0
Cobalt	6.200	5.0-9.0	9.300	15.0-17.0	7.200 J	10.0-22.0	8.100 J	5.0-10.0
Copper	8.400 J	5.0-9.0	17.100	15.0-17.0	1.600 J	5.0-10.0	3.600 J	10.0-22.0
Iron	14600.000	5.0-9.0	18200.000	10.0-15.0	17000.000	10.0-22.0	18000.000	5.0-10.0
Lead	8.400	10.0-15.0	13.000	15.0-17.0	6.000 J	10.0-22.0	6.400 J	5.0-10.0
Lithium	15.200 J	5.0-9.0	15.200 J	5.0-9.0	ND	NA	ND	NA
Magnesium	10800.000	10.0-15.0	17800.000	5.0-9.0	6620.000 J	10.0-22.0	7930.000 J	5.0-10.0
Manganese	309.000 J	10.0-15.0	506.000 J	5.0-9.0	428.000 J	5.0-10.0	584.000 J	10.0-22.0
Nickel	11.900	5.0-9.0	19.400 J	15.0-17.0	10.700 J	10.0-22.0	11.900 J	5.0-10.0
Potassium	1370.000 J	5.0-9.0	2820.000	15.0-17.0	4510.000 J	5.0-10.0	4800.000 J	10.0-22.0
Selenium	0.930	5.0-9.0	0.930	5.0-9.0	ND	NA	ND	NA
Silver	0.500 J	10.0-15.0	0.690 J	5.0-9.0	ND	NA	ND	NA
Sodium	177.000	5.0-9.0	194.000	15.0-17.0	169.000	5.0-10.0	175.000	10.0-22.0
Tin	ND	NA	ND	NA	3.800	5.0-10.0	3.800	5.0-10.0
Vanadium	12.700 J	5.0-9.0	18.000 J	15.0-17.0	13.900 J	5.0-10.0	14.200 J	10.0-22.0
Zinc	33.200 J	5.0-9.0	51.900	15.0-17.0	36.300	10.0-22.0	42.500	5.0-10.0

APPENDIX F.1 Tables of Validated Detected Analytes in Soil and Groundwater
Table F.1.6 Inorganic Compounds in Subsurface Soil Samples from Area 7 Soil Borings

	B07 (CONT)				B08 (CONT)			
	MINIMUM		MAXIMUM		MINIMUM		MAXIMUM	
	Value	Depth (ft BGS)	Value	Depth (ft BGS)	Value	Depth (ft BGS)	Value	Depth (ft BGS)
LANTHANIDES (mg/kg)								
Cerium	ND		ND		26.800	10.0-22.0	28.400	5.0-10.0
Dysprosium	2.600	5.0-9.0	3.800	15.0-17.0	ND	NA	ND	NA
Erbium	7.000 J	10.0-15.0	7.200 J	15.0-17.0	ND	NA	ND	NA
Europium	0.930	10.0-15.0	1.800	15.0-17.0	ND	NA	ND	NA
Gadolinium	68.200 J	5.0-9.0	90.700 J	10.0-15.0	88.300	10.0-22.0	88.300	10.0-22.0
Holmium	2.100	5.0-9.0	2.400	15.0-17.0	ND	NA	ND	NA
Lanthanum	29.600	15.0-17.0	29.600	15.0-17.0	ND	NA	ND	NA
Lutetium	0.550	10.0-15.0	0.550	10.0-15.0	ND	NA	ND	NA
Neodymium	20.700	10.0-15.0	25.200	15.0-17.0	15.400	5.0-10.0	26.100	10.0-22.0
Praseodymium	7.500	10.0-15.0	72.100	5.0-9.0	ND	NA	ND	NA
Samarium	19.100	10.0-15.0	19.600	15.0-17.0	ND	NA	ND	NA
Ytterbium	3.500	10.0-15.0	3.600	5.0-9.0	ND	NA	ND	NA

APPENDIX F.1 Tables of Validated Detected Analytes in Soil and Groundwater

Table F.1.6 Inorganic Compounds in Subsurface Soil Samples from Area 7 Soil Borings

	B09				B10			
	MINIMUM		MAXIMUM		MINIMUM		MAXIMUM	
	Value	Depth (ft BGS)	Value	Depth (ft BGS)	Value	Depth (ft BGS)	Value	Depth (ft BGS)
ANIONS (mg/kg)								
Chloride	36.500 J	5.0-12.0	91.200 J	12.0-20.0	33.900 J	10.0-13.5	44.600 J	5.0-10.0
Fluoride	1.410 J	5.0-12.0	8.580 J	20.0-25.0	4.140 J	10.0-13.5	6.170 J	5.0-10.0
Sulfate	136.000 J	25.0-32.0	460.000 J	5.0-12.0	93.800 J	10.0-13.5	149.000 J	5.0-10.0
Nitrate-Nitrite-N	0.542	5.0-12.0	1.100	20.0-25.0	0.710	10.0-13.5	1.060	5.0-10.0
TOTAL ORGANIC CARBON (mg/kg)								
Organic Carbon	1600.000 J	5.0-12.0	17700.000	25.0-32.0	1370.000 J	10.0-13.5	3810.000 J	5.0-10.0
METALS (mg/kg)								
Aluminum	5510.000 J	20.0-25.0	17700.000	12.0-20.0	10800.000	5.0-10.0	14500.000	10.0-13.5
Arsenic	2.100	5.0-12.0	4.800	20.0-25.0	2.200	5.0-10.0	3.000	10.0-13.5
Barium	18.500	5.0-12.0	79.800	12.0-20.0	14.700	5.0-10.0	20.500	10.0-13.5
Beryllium	0.280 J	20.0-25.0	0.700 J	12.0-20.0	0.490 J	5.0-10.0	0.650 J	10.0-13.5
Cadmium	0.070 J	12.0-20.0	0.240 J	20.0-25.0	0.110 J	5.0-10.0	0.110 J	5.0-10.0
Calcium	57000.000	12.0-20.0	132000.000	5.0-12.0	41500.000	10.0-13.5	88000.000	5.0-10.0
Chromium	7.100 J	20.0-25.0	17.800 J	12.0-20.0	12.200 J	5.0-10.0	18.000 J	10.0-13.5
Cobalt	4.600 J	20.0-25.0	7.900 J	12.0-20.0	7.600 J	5.0-10.0	12.300 J	10.0-13.5
Copper	2.500 J	5.0-12.0	5.200 J	12.0-20.0	4.700 J	10.0-13.5	6.100 J	5.0-10.0
Iron	11000.000	20.0-25.0	19600.000	12.0-20.0	15400.000	5.0-10.0	22100.000	10.0-13.5
Lead	5.900 J	5.0-12.0	11.100 J	12.0-20.0	3.900 J	5.0-10.0	4.100 J	10.0-13.5
Magnesium	4470.000 J	12.0-20.0	37900.000	20.0-25.0	9310.000 J	10.0-13.5	12200.000	5.0-10.0
Manganese	239.000 J	12.0-20.0	397.000 J	20.0-25.0	426.000 J	5.0-10.0	466.000 J	10.0-13.5
Nickel	8.100 J	20.0-25.0	12.400 J	12.0-20.0	11.600 J	5.0-10.0	19.000 J	10.0-13.5
Potassium	1940.000 J	20.0-25.0	3530.000 J	12.0-20.0	3880.000 J	5.0-10.0	4070.000 J	10.0-13.5
Sodium	153.000	12.0-20.0	282.000	20.0-25.0	161.000	5.0-10.0	196.000	10.0-13.5
Tin	3.100	25.0-32.0	6.100	12.0-20.0	2.800	10.0-13.5	4.500	5.0-10.0
Vanadium	10.200 J	25.0-32.0	25.100 J	12.0-20.0	12.200 J	5.0-10.0	14.800 J	10.0-13.5
Zinc	32.100	20.0-25.0	52.700	12.0-20.0	35.600	5.0-10.0	52.600	10.0-13.5
LANTHANIDES (mg/kg)								
Cerium	18.300	12.0-20.0	30.500	5.0-12.0	32.000	5.0-10.0	34.200	10.0-13.5
Neodymium	18.100	25.0-32.0	25.200	12.0-20.0	20.000	5.0-10.0	22.100	10.0-13.5

APPENDIX F.1 Tables of Validated Detected Analytes in Soil and Groundwater

Table F.1.6 Inorganic Compounds in Subsurface Soil Samples from Area 7 Soil Borings

	B11				B12			
	MINIMUM		MAXIMUM		MINIMUM		MAXIMUM	
	Value	Depth (ft BGS)	Value	Depth (ft BGS)	Value	Depth (ft BGS)	Value	Depth (ft BGS)
ANIONS (mg/kg)								
Chloride	35.200 J	10.0-15.0	136.000 J	4.0-10.0	39.300 J	12.0-23.0	82.800 J	6.0-10.0
Fluoride	3.340 J	4.0-10.0	4.550 J	4.0-10.0	2.280 J	6.0-10.0	2.530 J	12.0-23.0
Sulfate	111.000 J	10.0-15.0	180.000 J	4.0-10.0	66.500 J	6.0-10.0	96.000 J	12.0-23.0
Nitrate-Nitrite-N	0.726	15.0-20.5	1.530	4.0-10.0	0.865	12.0-23.0	0.865	12.0-23.0
TOTAL ORGANIC CARBON (mg/kg)								
Organic Carbon	1880.000 J	15.0-20.5	17600.000	4.0-10.0	1120.000 J	12.0-23.0	12500.000	6.0-10.0
METALS (mg/kg)								
Aluminum	10600.000	10.0-15.0	15000.000	4.0-10.0	14800.000	12.0-23.0	15000.000	6.0-10.0
Arsenic	3.800	4.0-10.0	8.300	10.0-15.0	2.600	6.0-10.0	3.700	12.0-23.0
Barium	8.800	15.0-20.5	51.800	10.0-15.0	18.700	12.0-23.0	34.900	6.0-10.0
Beryllium	0.500 J	10.0-15.0	0.670 J	15.0-20.5	0.660 J	12.0-23.0	0.670 J	6.0-10.0
Cadmium	0.150 J	10.0-15.0	0.240 J	4.0-10.0	0.070 J	6.0-10.0	0.070 J	6.0-10.0
Calcium	41400.000	15.0-20.5	94500.000	4.0-10.0	36200.000	12.0-23.0	90900.000	6.0-10.0
Chromium	13.200 J	10.0-15.0	19.300 J	15.0-20.5	16.800 J	6.0-10.0	18.300 J	12.0-23.0
Cobalt	7.700 J	10.0-15.0	13.700 J	15.0-20.5	10.100 J	6.0-10.0	10.100 J	6.0-10.0
Copper	4.700 J	4.0-10.0	8.000 J	10.0-15.0	4.700 J	6.0-10.0	8.400 J	12.0-23.0
Iron	19200.000	10.0-15.0	26100.000	15.0-20.5	25100.000	6.0-10.0	26800.000	12.0-23.0
Lead	6.500 J	15.0-20.5	11.500 J	10.0-15.0	5.500 J	6.0-10.0	5.800 J	12.0-23.0
Magnesium	8430.000 J	4.0-10.0	11200.000	4.0-10.0	8120.000 J	12.0-23.0	8280.000 J	6.0-10.0
Manganese	361.000 J	10.0-15.0	459.000 J	4.0-10.0	378.000 J	12.0-23.0	479.000 J	6.0-10.0
Nickel	13.400 J	10.0-15.0	21.300 J	15.0-20.5	15.100 J	6.0-10.0	17.800 J	12.0-23.0
Potassium	1620.000 J	10.0-15.0	4230.000 J	4.0-10.0	3530.000 J	12.0-23.0	4690.000 J	6.0-10.0
Selenium	ND		ND		ND		ND	
Silver	0.130	10.0-15.0	0.130	10.0-15.0	ND	NA	ND	NA
Sodium	186.000	4.0-10.0	815.000	15.0-20.5	175.000	12.0-23.0	199.000	6.0-10.0
Tin	4.700	4.0-10.0	5.200	4.0-10.0	4.900	12.0-23.0	5.000	6.0-10.0
Vanadium	15.000 J	15.0-20.5	19.400 J	4.0-10.0	16.000 J	12.0-23.0	16.400 J	6.0-10.0
Zinc	49.600	4.0-10.0	61.900	15.0-20.5	47.300	6.0-10.0	53.800	12.0-23.0
LANTHANIDES (mg/kg)								
Cerium	21.900	4.0-10.0	36.500	4.0-10.0	24.600	12.0-23.0	28.400	6.0-10.0
Gadolinium	69.300	4.0-10.0	69.300	4.0-10.0	ND	NA	ND	NA
Neodymium	15.600	15.0-20.5	26.700	10.0-15.0	19.800	12.0-23.0	22.200	6.0-10.0

APPENDIX F.1 Tables of Validated Detected Analytes in Soil and Groundwater

Table F.1.6 Inorganic Compounds in Subsurface Soil Samples from Area 7 Soil Borings

	B13				B14			
	MINIMUM		MAXIMUM		MINIMUM		MAXIMUM	
	Value	Depth (ft BGS)	Value	Depth (ft BGS)	Value	Depth (ft BGS)	Value	Depth (ft BGS)
ANIONS (mg/kg)								
Chloride	25.200 J	10.0-16.0	214.000 J	20.0-25.0	111.000 J	25.0-30.0	165.000 J	25.0-30.0
Fluoride	1.670 J	10.0-16.0	4.240 J	20.0-25.0	2.620	25.0-30.0	2.970	25.0-30.0
Sulfate	64.200 J	20.0-25.0	413.000 J	5.0-10.0	172.000 J	25.0-30.0	620.000 J	12.0-18.0
Nitrate-Nitrite-N	0.829 J	25.0-28.0	3.050 J	5.0-10.0	1.140	25.0-30.0	2.130	12.0-18.0
TOTAL ORGANIC CARBON (mg/kg)								
Organic Carbon	1630.000 J	10.0-16.0	15600 J	10.0-16.0	4490.000	12.0-18.0	12500.000	25.0-30.0
METALS (mg/kg)								
Aluminum	197000.000	10.0-16.0	283000.000	20.0-25.0	164000.000	25.0-30.0	303000.000	25.0-30.0
Antimony	2.300 J	5.0-10.0	3.200 J	25.0-28.0	2.200 J	12.0-18.0	4.100 J	25.0-30.0
Arsenic	2.400 J	10.0-16.0	7.800 J	25.0-28.0	3.600 J	12.0-18.0	6.100 J	25.0-30.0
Barium	17.000 J	5.0-10.0	64.400 J	20.0-25.0	57.300 J	25.0-30.0	229.000 J	25.0-30.0
Beryllium	0.450	10.0-16.0	0.640	20.0-25.0	0.400	25.0-30.0	0.760	25.0-30.0
Bismuth	18.200	20.0-25.0	21.500	5.0-10.0	16.800	25.0-30.0	28.100	25.0-30.0
Cadmium	ND	NA	ND	NA	1.400 J	25.0-30.0	1.400 J	25.0-30.0
Calcium	29000.000	20.0-25.0	142000.000	10.0-16.0	59700.000	25.0-30.0	130000.000	12.0-18.0
Chromium	9.800 J	10.0-16.0	15.000 J	20.0-25.0	11.800 J	12.0-18.0	29.700 J	25.0-30.0
Cobalt	6.900	10.0-16.0	11.500	5.0-10.0	7.500	25.0-30.0	9.400	25.0-30.0
Copper	7.900 J	10.0-16.0	17.900 J	5.0-10.0	12.400 J	12.0-18.0	430.000 J	25.0-30.0
Iron	17200.000	10.0-16.0	24500.000	5.0-10.0	15400.000	25.0-30.0	24100.000	25.0-30.0
Lead	4.100	10.0-16.0	15.600 J	20.0-25.0	13.300 J	12.0-18.0	87.000 J	25.0-30.0
Magnesium	7250.000	20.0-25.0	23600.000	25.0-28.0	10300.000	25.0-30.0	23400.000	25.0-30.0
Manganese	363.000 J	10.0-16.0	1460.000 J	25.0-28.0	248.000 J	25.0-30.0	404.000 J	25.0-30.0
Mercury	ND	NA	ND	NA	0.410 J	25.0-30.0	2.000 J	25.0-30.0
Nickel	12.700	10.0-16.0	20.600	25.0-28.0	13.700	25.0-30.0	22.000	25.0-30.0
Potassium	2100.000 J	25.0-28.0	2680.000 J	10.0-16.0	1220.000 J	25.0-30.0	2900.000 J	12.0-18.0
Silver	0.250 J	20.0-25.0	0.470 J	25.0-28.0	0.220 J	12.0-18.0	7.900 J	25.0-30.0
Sodium	169.000	20.0-25.0	255.000	25.0-28.0	246.000	25.0-30.0	658.000	25.0-30.0
Tin	ND	NA	ND	NA	5.300	25.0-30.0	5.300	25.0-30.0
Vanadium	10.500 J	10.0-16.0	24.900 J	20.0-25.0	13.500 J	12.0-18.0	25.200 J	25.0-30.0
Zinc	32.300 J	10.0-16.0	53.600 J	20.0-25.0	34.500 J	12.0-18.0	371.000 J	25.0-30.0

APPENDIX F.1 Tables of Validated Detected Analytes in Soil and Groundwater
Table F.1.6 Inorganic Compounds in Subsurface Soil Samples from Area 7 Soil Borings

	B13 (CONT)				B14 (CONT)			
	MINIMUM		MAXIMUM		MINIMUM		MAXIMUM	
	Value	Depth (ft BGS)	Value	Depth (ft BGS)	Value	Depth (ft BGS)	Value	Depth (ft BGS)
LANTHANIDES (mg/kg)								
Dysprosium	3.400	10.0-16.0	5.900	25.0-28.0	2.400	12.0-18.0	3.700	25.0-30.0
Erbium	6.800 J	25.0-28.0	7.500 J	20.0-25.0	6.600 J	12.0-18.0	7.900 J	25.0-30.0
Europium	0.940	5.0-10.0	1.300	25.0-28.0	0.880	12.0-18.0	1.100	25.0-30.0
Gadolinium	7.100 J	25.0-28.0	72.500 J	10.0-16.0	45.500 J	25.0-30.0	45.500 J	25.0-30.0
Holmium	2.100	5.0-10.0	2.200	20.0-25.0	2.400	25.0-30.0	2.400	25.0-30.0
Lutetium	0.500	20.0-25.0	0.960	5.0-10.0	0.530	25.0-30.0	0.530	25.0-30.0
Neodymium	11.800	10.0-16.0	26.800	5.0-10.0	16.800	25.0-30.0	24.200	12.0-18.0
Praseodymium	7.300	25.0-28.0	64.100	10.0-16.0	55.200	25.0-30.0	80.700	25.0-30.0
Samarium	18.700	25.0-28.0	20.400	20.0-25.0	18.100	12.0-18.0	19.200	25.0-30.0
Terbium	13.700	25.0-28.0	14.900	20.0-25.0	14.000	25.0-30.0	14.000	25.0-30.0
Ytterbium	3.400	25.0-28.0	3.700	20.0-25.0	3.300	12.0-18.0	3.900	25.0-30.0

APPENDIX F.1 Tables of Validated Detected Analytes in Soil and Groundwater

Table F.1.6 Inorganic Compounds in Subsurface Soil Samples from Area 7 Soil Borings

	B15				B16			
	MINIMUM		MAXIMUM		MINIMUM		MAXIMUM	
	Value	Depth (ft BGS)	Value	Depth (ft BGS)	Value	Depth (ft BGS)	Value	Depth (ft BGS)
ANIONS (mg/kg)								
Chloride	72.500 J	2.0-6.0	72.800 J	6.0-10.0	NS	NA	NS	NA
Fluoride	7.910 J	6.0-10.0	19.900 J	10.0-16.0	NS	NA	NS	NA
Sulfate	158.000	6.0-10.0	376.000	2.0-6.0	NS	NA	NS	NA
Nitrate-Nitrite-N	1.550	2.0-6.0	5.380	10.0-16.0	NS	NA	NS	NA
TOTAL ORGANIC CARBON (mg/kg)								
Organic Carbon	2170.000	2.0-6.0	8500.000	6.0-10.0	NS	NA	NS	NA
METALS (mg/kg)								
Aluminum	16400.000	2.0-6.0	22300.000	10.0-16.0	NS	NA	NS	NA
Arsenic	9.100 J	2.0-6.0	14.200 J	10.0-16.0	NS	NA	NS	NA
Barium	55.100 J	6.0-10.0	87.100 J	10.0-16.0	NS	NA	NS	NA
Beryllium	0.740 J	2.0-6.0	1.100 J	10.0-16.0	NS	NA	NS	NA
Bismuth	51.600	2.0-6.0	74.800	10.0-16.0	NS	NA	NS	NA
Calcium	75100.000	10.0-16.0	174000.000	6.0-10.0	NS	NA	NS	NA
Copper	48.000 J	2.0-6.0	48.000 J	2.0-6.0	NS	NA	NS	NA
Iron	27200.000	2.0-6.0	42400.000	10.0-16.0	NS	NA	NS	NA
Lead	14.200 J	6.0-10.0	24.500 J	2.0-6.0	NS	NA	NS	NA
Magnesium	17300.000	10.0-16.0	75800.000	6.0-10.0	NS	NA	NS	NA
Manganese	653.000 J	2.0-6.0	1180.000 J	10.0-16.0	NS	NA	NS	NA
Mercury	0.330	6.0-10.0	0.660	2.0-6.0	NS	NA	NS	NA
Nickel	34.000 J	6.0-10.0	34.000 J	6.0-10.0	NS	NA	NS	NA
Potassium	4250.000	2.0-6.0	6020.000	6.0-10.0	NS	NA	NS	NA
Tin	6.000	2.0-6.0	6.000	2.0-6.0	NS	NA	NS	NA
Zinc	74.500 J	6.0-10.0	97.300 J	10.0-16.0	NS	NA	NS	NA
LANTHANIDES (mg/kg)								
Cerium	43.500	2.0-6.0	75.000	10.0-16.0	NS	NA	NS	NA
Neodymium	27.200	2.0-6.0	46.100	10.0-16.0	NS	NA	NS	NA
Praseodymium	121.000	2.0-6.0	121.000	2.0-6.0	NS	NA	NS	NA

mg/kg - milligrams per kilogram
J - estimated
ND - not detected
NA - not applicable
NS - not sampled
ft BGS - feet below ground surface

APPENDIX F.1 Tables of Validated Detected Analytes in Soil and Groundwater

Table F.1.7 Radionuclides in Groundwater Samples from Area 7 Soil Borings

	B03		B11		B13		B14	
	Value	Depth (ft BGS)	Value	Depth (ft BGS)	Value	Depth (ft BGS)	Value	Depth (ft BGS)
RADIONUCLIDES (pCi/L)								
Am-241	ND	NA	ND	NA	0.730 J	34	ND	NA
K-40	ND	NA	ND	NA	199.9	34	ND	NA
Pu-238	ND	NA	ND	NA	ND	NA	2.290 J	21.5
Ra-226	0.810 J	17.4	0.640 J	12.5	0.780 J	34	0.650 J	21.5
Th-228	1.24	17.4	ND	NA	1.190 J	34	0.950 J	21.5
Th-230	0.48	17.4	ND	NA	0.580 J	34	ND	NA
Th-232	0.320 J	17.4	ND	NA	0.150 J	34	ND	NA
Tritium	1241.900 J	17.4	2373.7	12.5	8	34	2	21.5
U-234	2.660 J	17.4	0.44	12.5	0.500 J	34	0.620 J	21.5
U-235	ND	NA	0.29	12.5	ND	NA	0.210 J	21.5
U-238	2.290 J	17.4	0.18	12.5	0.680 J	34	0.400 J	21.5
	B16							
	Value	Depth (ft BGS)						
RADIONUCLIDES (pCi/L)								
Ra-226	0.550 J	17						
Th-228	0.870 J	17						
Th-230	0.55	17						
Th-232	0.1	17						
Tritium	736.8	17						
U-234	2.940 J	17						
U-235	0.39	17						
U-238	3.49	17						

pCi/L - picocuries per liter
J - estimated
ND - not detected
NA - not applicable
ft BGS - feet below ground surface

APPENDIX F.1 Tables of Validated Detected Analytes in Soil and Groundwater

Table F.1.8 Organic Compounds in Groundwater Samples from Area 7 Soil Borings

	B03		B11		B13		B14	
	Value	Depth (ft BGS)	Value	Depth (ft BGS)	Value	Depth (ft BGS)	Value	Depth (ft BGS)
EXPLOSIVES (µg/L)								
1,3,5-Trinitrobenzene	ND	NA	1.100 J	12.5	0.230 J	34	ND	NA
1,3-Dinitrobenzene	ND	NA	ND	NA	ND	NA	0.190 J	21.5
2-Amino-4,6-dinitrotoluene	ND	NA	ND	NA	2.200 J	34	ND	NA
RDX	ND	NA	0.900 J	12.5	ND	NA	ND	NA
PESTICIDES/PCBs (µg/L)								
Aroclor-1254	ND	NA	ND	NA	ND	NA	0.380 J	21.5
SEMI-VOLATILE ORGANICS (µg/L)								
Benzoic Acid	ND	NA	ND	NA	6.000 J	34	2.000 J	21.5
bis(2-Ethylhexyl)phthalate	ND	NA	2.000 J	12.5	ND	NA	8.000 J	21.5
Phenol	ND	NA	ND	NA	ND	NA	3.000 J	21.5
VOLATILE ORGANICS (µg/L)								
Chloroform	1.000 J	17.4	ND	NA	ND	NA	ND	NA
Trichloroethene	ND	NA	5	12.5	ND	NA	ND	NA
c-1,2-Dichloroethene	ND	NA	ND	NA	ND	NA	0.270 J	21.5
trans-1,2-Dichloroethene	ND	NA	ND	NA	ND	NA	0.030 J	21.5

µg/L - microgram per liter
J - estimated
ND - not detected
NA - not applicable
ft BGS - feet below ground surface

APPENDIX F.1 Tables of Validated Detected Analytes in Soil and Groundwater

Table F.1.9 Inorganic Compounds in Groundwater Samples from Area 7 Soil Borings

	B03		B11		B13		B14	
	Value	Depth (ft BGS)	Value	Depth (ft BGS)	Value	Depth (ft BGS)	Value	Depth (ft BGS)
INORGANICS (mg/L)								
Alkalinity as Calcium Carbonate	367	17.4	310	12.5	487	34	445	21.5
Kjeldahl Nitrogen	0.528	17.4	0.225 J	12.5	0.653	34	1.37	21.5
Total Phosphorus	0.896	17.4	0.644	12.5	0.218	34	0.542	21.5
Dissolved Solids	1740	17.4	1040	12.5	2140	34	1190	21.5
Suspended Solids	9	17.4	370	12.5	308	34	660	21.5
ANIONS (mg/L)								
Chloride	866	17.4	153	12.5	632	34	443	21.5
Fluoride	0.58	17.4	0.492	12.5	0.157	34	0.298	21.5
Sulfate	25.5	17.4	60.5	12.5	75.200 J	34	45.200 J	21.5
Nitrate-Nitrite-N	1.220 J	17.4	0.07	12.5	0.086	34	0.09	21.5
TOTAL ORGANIC CARBON (mg/L)								
Organic Carbon	2.53	17.4	1.580 J	12.5	3.74	34	ND	NA
METALS (µg/L)								
Aluminum	ND	NA	3180.000 J	12.5	8410.000 J	34	13000	21.5
Antimony	ND	NA	ND	NA	ND	NA	2.6	21.5
Arsenic	ND	NA	ND	NA	10.6	34	9	21.5
Barium	ND	NA	70.9	12.5	155	34	165	21.5
Bismuth	268	17.4	ND	NA	160	34	92.3	21.5
Calcium	ND	NA	127000	12.5	249000	34	76200	21.5
Cobalt	ND	NA	3.3	12.5	7.7	34	6.7	21.5
Copper	ND	NA	3.500 J	12.5	17.2	34	106	21.5
Chromium	ND	NA	ND	NA	30.1	34	47.2	21.5
Iron	ND	NA	4280.000 J	12.5	22100	34	19200	21.5
Lead	ND	NA	ND	NA	6.9	34	27.4	21.5
Magnesium	ND	NA	47400	12.5	69800	34	22200	21.5
Manganese	ND	NA	323	12.5	1690	34	663	21.5
Potassium	ND	NA	10700	12.5	9520.000 J	34	10400	21.5
Silver	ND	NA	ND	NA	ND	NA	9.3	21.5
Sodium	ND	NA	63200	12.5	206000	34	285000	21.5
Thallium	ND	NA	3.6	12.5	ND	NA	ND	NA
Vanadium	ND	NA	5.5	12.5	15.1	34	21.2	21.5
Zinc	ND	NA	13.2	12.5	55.8	34	195	21.5

APPENDIX F.1 Tables of Validated Detected Analytes in Soil and Groundwater

Table F.1.9 Inorganic Compounds in Groundwater Samples from Area 7 Soil Borings

	B03		B11		B13		B14	
	Value	Depth (ft BGS)	Value	Depth (ft BGS)	Value	Depth (ft BGS)	Value	Depth (ft BGS)
LANTHANIDES (µg/L)								
Europium	4	17.4	ND	NA	ND	NA	ND	NA
Gadolinium	168	17.4	ND	NA	181.000 J	34	ND	NA
Holmium	10	17.4	ND	NA	ND	NA	ND	NA
Samarium	82	17.4	ND	NA	ND	NA	ND	NA

mg/L - milligrams per liter
µg/L - microgram per liter
J - estimated
ND - not detected
NA - not applicable
ft BGS - feet below ground surface

F.2 Tables of All Validated Analytical Data for Soil and Groundwater

APPENDIX F.2 TABLE OF ALL VALIDATED ANALYTICAL DATA FOR SOIL
OPERABLE UNIT 5, AOC 7

MOUND OPERATIONAL AREA											
		B01001		B01002		B01003		B01004		B01005	
		619978 REG		620001 REG		620007 REG		620013 REG		620020 REG	
		6/20/94		6/20/94		6/20/94		6/20/94		6/20/94	
		Result	Val	Result	Val	Result	Val	Result	Val	Result	Val
Volatile Organics	Units										
Acetone	UG/KG	11	UJ	11	UJ	12	UJ	11	UJ	11	UJ
Acetonitrile	UG/KG	110	U	110	U	120	U	110	U	110	U
Acrylonitrile	UG/KG	110	U	110	U	120	U	110	U	110	U
Benzene	UG/KG	5	U	6	U	6	U	6	U	5	U
Bromodichloromethane	UG/KG	5	U	6	U	6	U	6	U	5	U
Bromoform	UG/KG	5	U	6	U	6	U	6	U	5	U
Bromomethane	UG/KG	11	U	11	U	12	U	11	U	11	U
2-Butanone	UG/KG	11	U	11	U	12	U	11	U	11	U
Carbon Disulfide	UG/KG	5	U	6	U	6	U	6	U	5	U
Carbon Tetrachloride	UG/KG	5	U	6	U	6	U	6	U	5	U
Chlorobenzene	UG/KG	5	U	6	U	6	U	6	U	5	U
Chlorodibromomethane	UG/KG	5	U	6	U	6	U	6	U	5	U
Chloroethane	UG/KG	11	U	11	U	12	U	11	U	11	U
Chloroform	UG/KG	5	U	6	U	6	U	6	U	5	U
Chloromethane	UG/KG	11	U	11	U	12	U	11	U	11	U
1,1-Dichloroethane	UG/KG	5	U	6	U	6	U	6	U	5	U
1,2-Dichloroethane	UG/KG	5	U	6	U	6	U	6	U	5	U
1,1-Dichloroethene	UG/KG	5	U	6	U	6	U	6	U	5	U
1,2-Dichloroethene	UG/KG	5	U	6	U	6	U	6	U	5	U
1,2-Dichloropropane	UG/KG	5	U	6	U	6	U	6	U	5	U
cis-1,3-Dichloropropene	UG/KG	5	U	6	U	6	U	6	U	5	U
trans-1,3-Dichloropropene	UG/KG	5	U	6	U	6	U	6	U	5	U
1,2-Diethylbenzene	UG/KG	22	U	22	U	24	U	22	U	22	U
Ethylbenzene	UG/KG	5	U	6	U	6	U	6	U	5	U
Hexane	UG/KG	11	U	11	U	12	U	11	U	11	U
2-Hexanone	UG/KG	11	U	11	U	12	U	11	U	11	U
Iodomethane	UG/KG	11	U	11	U	12	U	11	U	11	U
4-Methyl-2-pentanone	UG/KG	11	U	11	U	12	U	11	U	11	U
Methylene Chloride	UG/KG	5	U	6	U	6	U	6	U	6	U
Styrene	UG/KG	5	U	6	U	6	U	6	U	5	U

APPENDIX F.2 TABLE OF ALL VALIDATED ANALYTICAL DATA FOR SOIL
OPERABLE UNIT 5, AOC 7

1,1,2,2-Tetrachloroethane	UG/KG	5	U	6	U	6	U	6	U	5	U
Tetrachloroethene	UG/KG	5	U	6	U	6	U	6	U	5	U
Toluene	UG/KG	5	U	6	U	6	U	6	U	5	U
1,1,1-Trichloroethane	UG/KG	5	U	6	U	6	U	6	U	5	U
1,1,2-Trichloroethane	UG/KG	5	U	6	U	6	U	6	U	5	U
Trichloroethene	UG/KG	5	U	6	U	6	U	6	U	5	U
Trichlorotrifluoroethane	UG/KG	11	U	11	U	12	U	11	U	11	U
Vinyl Acetate	UG/KG	11	U	11	U	12	U	11	U	11	U
Vinyl Chloride	UG/KG	11	U	11	U	12	U	11	U	11	U
Xylene, Total	UG/KG	5	U	6	U	6	U	6	U	5	U
Tentatively Identified Compounds		1		1		1		1		1	

APPENDIX F.2 TABLE OF ALL VALIDATED ANALYTICAL DATA FOR SOIL
OPERABLE UNIT 5, AOC 7

MOUND OPERATIONAL AREA											
		B01006		B01007		B02001		B02002		B03001	
		620026 REG		620214 REG		620226 REG		620242 REG		620987 REG	
		6/20/94		6/20/94		6/21/94		6/21/94		6/23/94	
		Result	Val	Result	Val	Result	Val	Result	Val	Result	Val
Volatile Organics	Units										
Acetone	UG/KG	11	UJ	11	J	11	UJ	69	J	10	UJ
Acetonitrile	UG/KG	110	U	110	U	110	U	120	U	100	U
Acrylonitrile	UG/KG	110	U	110	U	110	U	120	U	100	U
Benzene	UG/KG	5	U	6	U	5	U	6	U	5	U
Bromodichloromethane	UG/KG	5	U	6	U	5	U	6	U	5	U
Bromoform	UG/KG	5	U	6	U	5	U	6	U	5	U
Bromomethane	UG/KG	11	U	11	U	11	U	12	U	10	U
2-Butanone	UG/KG	11	U	11	U	11	U	12	U	10	U
Carbon Disulfide	UG/KG	5	U	6	U	5	U	6	U	5	U
Carbon Tetrachloride	UG/KG	5	U	6	U	5	U	6	U	5	U
Chlorobenzene	UG/KG	5	U	6	U	5	U	6	U	5	U
Chlorodibromomethane	UG/KG	5	U	6	U	5	U	6	U	5	U
Chloroethane	UG/KG	11	U	11	U	11	U	12	U	10	U
Chloroform	UG/KG	5	U	6	U	5	U	6	U	5	U
Chloromethane	UG/KG	11	U	11	U	11	U	12	U	10	U
1,1-Dichloroethane	UG/KG	5	U	6	U	5	U	6	U	5	U
1,2-Dichloroethane	UG/KG	5	U	6	U	5	U	6	U	5	U
1,1-Dichloroethene	UG/KG	5	U	6	U	5	U	6	U	5	U
1,2-Dichloroethene	UG/KG	5	U	6	U	5	U	6	U	5	U
1,2-Dichloropropane	UG/KG	5	U	6	U	5	U	6	U	5	U
cis-1,3-Dichloropropene	UG/KG	5	U	6	U	5	U	6	U	5	U
trans-1,3-Dichloropropene	UG/KG	5	U	6	U	5	U	6	U	5	U
1,2-Diethylbenzene	UG/KG	22	U	22	U	22	U	23	U	21	U
Ethylbenzene	UG/KG	5	U	6	U	5	U	6	U	5	U
Hexane	UG/KG	11	U	11	U	11	U	12	U	4	J
2-Hexanone	UG/KG	11	U	11	U	11	U	12	U	10	U
Iodomethane	UG/KG	11	U	11	U	11	U	12	U	10	U
4-Methyl-2-pentanone	UG/KG	11	U	11	U	11	U	12	U	10	U
Methylene Chloride	UG/KG	7	U	12	U	5	U	26	U	14	U
Styrene	UG/KG	5	U	6	U	5	U	6	U	5	U
1,1,2,2-Tetrachloroethane	UG/KG	5	U	6	U	5	U	6	U	5	U
Tetrachloroethene	UG/KG	5	U	6	U	5	U	6	U	5	U
Toluene	UG/KG	5	U	6	U	5	U	6	U	5	U
1,1,1-Trichloroethane	UG/KG	5	U	6	U	5	U	6	U	5	U
1,1,2-Trichloroethane	UG/KG	5	U	6	U	5	U	6	U	5	U

APPENDIX F.2 TABLE OF ALL VALIDATED ANALYTICAL DATA FOR SOIL
OPERABLE UNIT 5, AOC 7

Trichloroethene	UG/KG	5	U	6	U	5	U	6	U	5	U
Trichlorotrifluoroethane	UG/KG	11	U	11	U	11	U	12	U	10	U
Vinyl Acetate	UG/KG	11	U	11	U	11	U	12	U	10	U
Vinyl Chloride	UG/KG	11	U	11	U	11	U	12	U	10	U
Xylene, Total	UG/KG	5	U	6	U	5	U	6	U	5	U
Tentatively Identified Compounds		1		1		1		1		1	

APPENDIX F.2 TABLE OF ALL VALIDATED ANALYTICAL DATA FOR SOIL
OPERABLE UNIT 5, AOC 7

MOUND OPERATIONAL AREA											
		B03002		B03003		B03004		B03005		B03006	
		620993 REG		620999 REG		621429 REG		621445 REG		621428 REG	
		6/23/94		6/23/94		6/23/94		6/27/94		6/27/94	
		Result	Val	Result	Val	Result	Val	Result	Val	Result	Val
Volatile Organics	Units										
Acetone	UG/KG	59	J	44	J	22	J	13	U	31	J
Acetonitrile	UG/KG	110	U	120	U	130	U	61	J	110	U
Acrylonitrile	UG/KG	110	U	120	U	130	U	120	U	110	U
Benzene	UG/KG	6	U	6	U	6	U	6	U	5	U
Bromodichloromethane	UG/KG	6	U	6	U	6	U	6	U	5	U
Bromoform	UG/KG	6	U	6	U	6	U	6	U	5	U
Bromomethane	UG/KG	11	U	12	U	13	U	12	U	11	U
2-Butanone	UG/KG	11	U	12	U	13	U	12	U	11	U
Carbon Disulfide	UG/KG	6	U	6	U	6	U	6	U	5	U
Carbon Tetrachloride	UG/KG	6	U	6	U	6	U	6	U	5	U
Chlorobenzene	UG/KG	6	U	6	U	6	U	6	U	5	U
Chlorodibromomethane	UG/KG	6	U	6	U	6	U	6	U	5	U
Chloroethane	UG/KG	11	U	12	U	13	U	12	U	11	U
Chloroform	UG/KG	6	U	6	U	6	U	6	U	5	U
Chloromethane	UG/KG	11	U	12	U	13	U	12	U	11	U
1,1-Dichloroethane	UG/KG	6	U	6	U	6	U	6	U	5	U
1,2-Dichloroethane	UG/KG	6	U	6	U	6	U	6	U	5	U
1,1-Dichloroethene	UG/KG	6	U	6	U	6	U	6	U	5	U
1,2-Dichloroethene	UG/KG	6	U	6	U	6	U	6	U	5	U
1,2-Dichloropropane	UG/KG	6	U	6	U	6	U	6	U	5	U
cis-1,3-Dichloropropene	UG/KG	6	U	6	U	6	U	6	U	5	U
trans-1,3-Dichloropropene	UG/KG	6	U	6	U	6	U	6	U	5	U
1,2-Diethylbenzene	UG/KG	22	U	24	U	25	U	23	U	22	U
Ethylbenzene	UG/KG	6	U	6	U	6	U	6	U	5	U
Hexane	UG/KG	11	U	12	U	13	U	12	U	11	U
2-Hexanone	UG/KG	11	U	12	U	13	U	12	U	11	U
Iodomethane	UG/KG	11	U	12	U	13	U	12	U	11	U
4-Methyl-2-pentanone	UG/KG	11	U	12	U	13	U	12	U	11	U
Methylene Chloride	UG/KG	18	U	14	U	150		10	U	11	U
Styrene	UG/KG	6	U	6	U	6	U	6	U	5	U
1,1,2,2-Tetrachloroethane	UG/KG	6	U	6	U	6	U	6	U	5	U
Tetrachloroethene	UG/KG	6	U	6	U	6	U	6	U	5	U
Toluene	UG/KG	6	U	6	U	6	U	6	U	5	U
1,1,1-Trichloroethane	UG/KG	6	U	6	U	6	U	6	U	5	U
1,1,2-Trichloroethane	UG/KG	6	U	6	U	6	U	6	U	5	U

APPENDIX F.2 TABLE OF ALL VALIDATED ANALYTICAL DATA FOR SOIL
OPERABLE UNIT 5, AOC 7

Trichloroethene	UG/KG	6	U	6	U	6	U	6	U	5	U
Trichlorotrifluoroethane	UG/KG	11	U	12	U	13	U	12	U	11	U
Vinyl Acetate	UG/KG	11	U	12	U	13	U	12	U	11	U
Vinyl Chloride	UG/KG	11	U	12	U	13	U	12	U	11	U
Xylene, Total	UG/KG	6	U	6	U	6	U	6	U	5	U
Tentatively Identified Compounds		1		1		2		1		1	

APPENDIX F.2 TABLE OF ALL VALIDATED ANALYTICAL DATA FOR SOIL
OPERABLE UNIT 5, AOC 7

MOUND OPERATIONAL AREA											
		B03007		B04001		B04002		B04102		B05001	
		621702 REG		620693 REG		620699 REG		620705 REG		620711 REG	
		6/28/94		6/22/94		6/22/94		06/22/94DUPE		6/22/94	
		Result	Val	Result	Val	Result	Val	Result	Val	Result	Val
Volatile Organics	**Units**										
Acetone	UG/KG	35		11	UJ	40	J	14	J	24	J
Acetonitrile	UG/KG	110	R	110	U	120	U	120	U	110	U
Acrylonitrile	UG/KG	110	U	110	U	120	U	120	U	110	U
Benzene	UG/KG	6	U	6	U	6	U	6	U	6	U
Bromodichloromethane	UG/KG	6	U	6	U	6	U	6	U	6	U
Bromoform	UG/KG	6	U	6	U	6	U	6	U	6	U
Bromomethane	UG/KG	11	U	11	U	12	U	12	U	11	U
2-Butanone	UG/KG	11	UJ	11	U	12	U	12	U	11	U
Carbon Disulfide	UG/KG	6	U	6	U	6	U	6	U	6	U
Carbon Tetrachloride	UG/KG	6	U	6	U	6	U	6	U	6	U
Chlorobenzene	UG/KG	6	U	6	U	6	U	6	U	6	U
Chlorodibromomethane	UG/KG	6	U	6	U	6	U	6	U	6	U
Chloroethane	UG/KG	11	UJ	11	U	12	U	12	U	11	U
Chloroform	UG/KG	6	U	6	U	6	U	6	U	6	U
Chloromethane	UG/KG	11	UJ	11	U	12	U	12	U	11	U
1,1-Dichloroethane	UG/KG	6	U	6	U	6	U	6	U	6	U
1,2-Dichloroethane	UG/KG	6	U	6	U	6	U	6	U	6	U
1,1-Dichloroethene	UG/KG	6	U	6	U	6	U	6	U	6	U
1,2-Dichloroethene	UG/KG	6	U	6	U	6	U	6	U	6	U
1,2-Dichloropropane	UG/KG	6	U	6	U	6	U	6	U	6	U
cis-1,3-Dichloropropene	UG/KG	6	U	6	U	6	U	6	U	6	U
trans-1,3-Dichloropropene	UG/KG	6	U	6	U	6	U	6	U	6	U
1,2-Diethylbenzene	UG/KG	22	UJ	22	U	23	U	24	U	23	U
Ethylbenzene	UG/KG	6	U	6	U	6	U	6	U	6	U
Hexane	UG/KG	11	U	11	U	12	U	12	U	11	U
2-Hexanone	UG/KG	11	U	11	U	12	U	12	U	11	U
Iodomethane	UG/KG	11	U	11	U	12	U	12	U	11	U
4-Methyl-2-pentanone	UG/KG	11	UJ	11	U	12	U	12	U	11	U
Methylene Chloride	UG/KG	10	U	6	U	10	U	18	U	6	U
Styrene	UG/KG	6	U	6	U	6	U	6	U	6	U
1,1,2,2-Tetrachloroethane	UG/KG	6	U	6	U	6	U	6	U	6	U
Tetrachloroethene	UG/KG	6	U	6	U	6	U	6	U	6	U
Toluene	UG/KG	6	U	6	U	6	U	6	U	6	U
1,1,1-Trichloroethane	UG/KG	6	U	6	U	6	U	6	U	6	U
1,1,2-Trichloroethane	UG/KG	6	U	6	U	6	U	6	U	6	U

APPENDIX F.2 TABLE OF ALL VALIDATED ANALYTICAL DATA FOR SOIL
OPERABLE UNIT 5, AOC 7

Trichloroethene	UG/KG	6	U	6	U	6	U	6	U	6	U
Trichlorotrifluoroethane	UG/KG	11	U	11	U	12	U	12	U	11	U
Vinyl Acetate	UG/KG	11	U	11	U	12	U	12	U	11	U
Vinyl Chloride	UG/KG	11	UJ	11	U	12	U	12	U	11	U
Xylene, Total	UG/KG	6	U	6	U	6	U	6	U	6	U
Tentatively Identified Compounds		1		1		1		2		1	

APPENDIX F.2 TABLE OF ALL VALIDATED ANALYTICAL DATA FOR SOIL
OPERABLE UNIT 5, AOC 7

MOUND OPERATIONAL AREA											
		B05002		B06001		B06002		B06003		B07001	
		620717 REG		628684 REG		628719 REG		628731 REG		621721 REG	
		6/22/94		7/22/94		7/22/94		7/22/94		6/28/94	
		Result	Val	Result	Val	Result	Val	Result	Val	Result	Val
Volatile Organics	**Units**										
Acetone	UG/KG	11	UJ	94	J	110	U	36	U	140	
Acetonitrile	UG/KG	110	U	110	U	120	U	110	U	110	R
Acrylonitrile	UG/KG	110	U	110	U	120	U	110	U	110	U
Benzene	UG/KG	6	U	6	U	6	U	6	U	6	U
Bromodichloromethane	UG/KG	6	U	6	U	6	U	6	U	6	U
Bromoform	UG/KG	6	U	6	U	6	U	6	U	6	U
Bromomethane	UG/KG	11	U	11	U	12	U	11	U	11	U U
2-Butanone	UG/KG	11	U	11	U	12	U	11	U	11	UJ
Carbon Disulfide	UG/KG	6	U	6	U	6	U	6	U	6	U
Carbon Tetrachloride	UG/KG	6	U	6	U	6	U	6	U	6	U
Chlorobenzene	UG/KG	6	U	6	U	6	U	6	U	6	U
Chlorodibromomethane	UG/KG	6	U	6	U	6	U	6	U	6	U
Chloroethane	UG/KG	11	U	11	U	12	U	11	U	11	UJ
Chloroform	UG/KG	6	U	6	U	6	U	6	U	6	U
Chloromethane	UG/KG	11	U	11	U	12	U	11	U	11	UJ
1,1-Dichloroethane	UG/KG	6	U	6	U	6	U	6	U	6	U
1,2-Dichloroethane	UG/KG	6	U	6	U	6	U	6	U	6	U
1,1-Dichloroethene	UG/KG	6	U	6	U	6	U	6	U	6	U
1,2-Dichloroethene	UG/KG	6	U	6	U	6	U	6	U	6	U
1,2-Dichloropropane	UG/KG	6	U	6	U	6	U	6	U	6	U
cis-1,3-Dichloropropene	UG/KG	6	U	6	U	6	U	6	U	6	U
trans-1,3-Dichloropropene	UG/KG	6	U	6	U	6	U	6	U	6	U
1,2-Diethylbenzene	UG/KG	23	U	23	U	24	U	23	U	23	UJ
Ethylbenzene	UG/KG	6	U	6	U	6	U	6	U	6	U
Hexane	UG/KG	11	U	11	U	12	U	11	U	11	U
2-Hexanone	UG/KG	11	U	11	U	12	U	11	U	11	U
Iodomethane	UG/KG	11	U	11	U	12	U	11	U	11	U
4-Methyl-2-pentanone	UG/KG	11	U	11	U	12	U	11	U	11	UJ
Methylene Chloride	UG/KG	7	U	42	U	98	U	99	U	16	U
Styrene	UG/KG	6	U	6	U	6	U	6	U	6	U
1,1,2,2-Tetrachloroethane	UG/KG	6	U	6	U	6	U	6	U	6	U
Tetrachloroethene	UG/KG	6	U	6	U	6	U	6	U	6	U
Toluene	UG/KG	6	U	6	U	6	U	6	U	6	U
1,1,1-Trichloroethane	UG/KG	6	U	6	U	6	U	6	U	6	U
1,1,2-Trichloroethane	UG/KG	6	U	6	U	6	U	6	U	6	U

APPENDIX F.2 TABLE OF ALL VALIDATED ANALYTICAL DATA FOR SOIL
OPERABLE UNIT 5, AOC 7

Trichloroethene	UG/KG	6	U	6	U	6	U	6	U	6	U
Trichlorotrifluoroethane	UG/KG	11	U	11	U	12	U	11	U	11	U
Vinyl Acetate	UG/KG	11	U	11	U	12	U	11	U	11	U
Vinyl Chloride	UG/KG	11	U	11	U	12	U	11	U	11	UJ
Xylene, Total	UG/KG	6	U	6	U	6	U	6	U	6	U
Tentatively Identified Compounds		1		1		1		1		1	

APPENDIX F.2 TABLE OF ALL VALIDATED ANALYTICAL DATA FOR SOIL
OPERABLE UNIT 5, AOC 7

MOUND OPERATIONAL AREA											
		B07002		B07003		B07004		B07101		B08001	
		621710 REG		622319 REG		622331 REG		621711 REG		625889 REG	
		6/28/94		6/28/94		6/29/94		06/28/94DUPE		7/14/94	
		Result	Val	Result	Val	Result	Val	Result	Val	Result	Val
Volatile Organics	Units										
Acetone	UG/KG	49		31	U	41	J	88		11	U
Acetonitrile	UG/KG	120	R	120	R	120	U	110	R	110	U
Acrylonitrile	UG/KG	120	U	120	U	120	U	110	U	110	U
Benzene	UG/KG	6	U	6	U	6	U	6	U	6	U
Bromodichloromethane	UG/KG	6	U	6	U	6	U	6	U	6	U
Bromoform	UG/KG	6	U	6	U	6	U	6	U	6	U
Bromomethane	UG/KG	12	U	12	U	12	U	11	U	11	U
2-Butanone	UG/KG	12	UJ	12	U	12	U	11	UJ	11	U
Carbon Disulfide	UG/KG	6	U	6	U	6	U	6	U	6	U
Carbon Tetrachloride	UG/KG	6	U	6	U	6	U	6	U	6	U
Chlorobenzene	UG/KG	6	U	6	U	6	U	6	U	6	U
Chlorodibromomethane	UG/KG	6	U	6	U	6	U	6	U	6	U
Chloroethane	UG/KG	12	UJ	12	U	12	U	11	UJ	11	U
Chloroform	UG/KG	6	U	6	U	6	U	6	U	6	U
Chloromethane	UG/KG	12	UJ	12	UJ	12	U	11	UJ	11	U
1,1-Dichloroethane	UG/KG	6	U	6	U	6	U	6	U	6	U
1,2-Dichloroethane	UG/KG	6	U	6	U	6	U	6	U	6	U
1,1-Dichloroethene	UG/KG	6	U	6	U	6	U	6	U	6	U
1,2-Dichloroethene	UG/KG	6	U	6	U	6	U	6	U	6	U
1,2-Dichloropropane	UG/KG	6	U	6	U	6	U	6	U	6	U
cis-1,3-Dichloropropene	UG/KG	6	U	6	U	6	U	6	U	6	U
trans-1,3-Dichloropropene	UG/KG	6	U	6	U	6	U	6	U	6	U
1,2-Diethylbenzene	UG/KG	24	UJ	23	U	24	U	23	UJ	23	U
Ethylbenzene	UG/KG	6	U	6	U	6	U	6	U	6	U
Hexane	UG/KG	12	U	12	U	12	U	11	U	11	U
2-Hexanone	UG/KG	12	U	12	U	12	U	11	U	11	U
Iodomethane	UG/KG	12	U	12	U	12	U	11	U	11	U
4-Methyl-2-pentanone	UG/KG	12	UJ	12	U	12	U	11	UJ	11	U
Methylene Chloride	UG/KG	7	U	20	U	8	U	7	U	6	U
Styrene	UG/KG	6	U	6	U	6	U	6	U	6	U
1,1,2,2-Tetrachloroethane	UG/KG	6	U	6	U	6	U	6	U	6	U
Tetrachloroethene	UG/KG	6	U	6	U	6	U	6	U	6	U
Toluene	UG/KG	6	U	6	U	6	U	6	U	6	U
1,1,1-Trichloroethane	UG/KG	6	U	6	U	6	U	6	U	6	U
1,1,2-Trichloroethane	UG/KG	6	U	6	U	6	U	6	U	6	U

APPENDIX F.2 TABLE OF ALL VALIDATED ANALYTICAL DATA FOR SOIL
OPERABLE UNIT 5, AOC 7

Trichloroethene	UG/KG	6	U	6	U	6	U	6	U	6	U
Trichlorotrifluoroethane	UG/KG	12	U	12	U	12	U	11	U	11	U
Vinyl Acetate	UG/KG	12	U	12	U	12	U	11	U	11	U
Vinyl Chloride	UG/KG	12	UJ	12	U	12	U	11	UJ	11	U
Xylene, Total	UG/KG	6	U	6	U	6	U	6	U	6	U
Tentatively Identified Compounds		1				1		1		1	

APPENDIX F.2 TABLE OF ALL VALIDATED ANALYTICAL DATA FOR SOIL
OPERABLE UNIT 5, AOC 7

MOUND OPERATIONAL AREA											
		B08002		B08003		B09001		B09002		B09003	
		625896 REG		625897 REG		626875 REG		626877 REG		626882 REG	
		7/14/94		7/14/94		7/19/94		7/19/94		7/19/94	
		Result	Val	Result	Val	Result	Val	Result	Val	Result	Val
Volatile Organics	Units										
Acetone	UG/KG	11	U	12	U	11	U	27	J	120	U
Acetonitrile	UG/KG	110	U	120	U	110	U	120	U	120	J
Acrylonitrile	UG/KG	110	U	120	U	110	U	120	U	130	U
Benzene	UG/KG	6	U	6	U	6	U	6	U	6	U
Bromodichloromethane	UG/KG	6	U	6	U	6	U	6	U	6	U
Bromoform	UG/KG	6	U	6	U	6	U	6	U	6	U
Bromomethane	UG/KG	11	U	12	U	11	U	12	U	13	U
2-Butanone	UG/KG	11	U	12	U	11	U	12	U	13	U
Carbon Disulfide	UG/KG	6	U	6	U	6	U	6	U	6	U
Carbon Tetrachloride	UG/KG	6	U	6	U	6	U	6	U	6	U
Chlorobenzene	UG/KG	6	U	6	U	6	U	6	U	6	U
Chlorodibromomethane	UG/KG	6	U	6	U	6	U	6	U	6	U
Chloroethane	UG/KG	11	U	12	U	11	U	12	U	13	U
Chloroform	UG/KG	6	U	6	U	6	U	6	U	6	U
Chloromethane	UG/KG	11	U	12	U	11	U	12	U	13	U
1,1-Dichloroethane	UG/KG	6	U	6	U	6	U	6	U	6	U
1,2-Dichloroethane	UG/KG	6	U	6	U	6	U	6	U	6	U
1,1-Dichloroethene	UG/KG	6	U	6	U	6	U	6	U	6	U
1,2-Dichloroethene	UG/KG	6	U	6	U	6	U	6	U	6	U
1,2-Dichloropropane	UG/KG	6	U	6	U	6	U	6	U	6	U
cis-1,3-Dichloropropene	UG/KG	6	U	6	U	6	U	6	U	6	U
trans-1,3-Dichloropropene	UG/KG	6	U	6	U	6	U	6	U	6	U
1,2-Diethylbenzene	UG/KG	23	U	24	U	22	U	24	U	25	U
Ethylbenzene	UG/KG	6	U	6	U	6	U	6	U	6	U
Hexane	UG/KG	11	U	12	U	11	U	12	U	13	U
2-Hexanone	UG/KG	11	U	12	U	11	U	12	U	13	U
Iodomethane	UG/KG	11	U	12	U	11	U	12	U	13	U
4-Methyl-2-pentanone	UG/KG	11	U	12	U	11	U	12	U	13	U
Methylene Chloride	UG/KG	6	U	10	U	8	U	21	U	21	U
Styrene	UG/KG	6	U	6	U	6	U	6	U	6	U
1,1,2,2-Tetrachloroethane	UG/KG	6	U	6	U	6	U	6	U	6	U
Tetrachloroethene	UG/KG	6	U	6	U	6	U	6	U	6	U
Toluene	UG/KG	6	U	6	U	6	U	6	U	6	U
1,1,1-Trichloroethane	UG/KG	6	U	6	U	6	U	6	U	6	U
1,1,2-Trichloroethane	UG/KG	6	U	6	U	6	U	6	U	6	U

APPENDIX F.2 TABLE OF ALL VALIDATED ANALYTICAL DATA FOR SOIL
OPERABLE UNIT 5, AOC 7

Trichloroethene	UG/KG	6	U	6	U	6	U	6	U	6	U
Trichlorotrifluoroethane	UG/KG	11	U	12	U	11	U	12	U	13	U
Vinyl Acetate	UG/KG	11	U	12	U	11	U	12	U	13	U
Vinyl Chloride	UG/KG	11	U	12	U	11	U	12	U	13	U
Xylene, Total	UG/KG	6	U	6	U	6	U	6	U	6	U
Tentatively Identified Compounds		1		1				1		1	

APPENDIX F.2 TABLE OF ALL VALIDATED ANALYTICAL DATA FOR SOIL
OPERABLE UNIT 5, AOC 7

MOUND OPERATIONAL AREA											
		B09004		B09005		B09102		B10001		B10002	
		626889 REG		626896 REG		626898 REG		627624 REG		627620 REG	
		7/19/94		7/19/94		07/19/94DUPE		7/20/94		7/20/94	
		Result	Val	Result	Val	Result	Val	Result	Val	Result	Val
Volatile Organics	Units										
Acetone	UG/KG	78	J	18	J	12	UJ	11	U	22	U
Acetonitrile	UG/KG	110	U	120	U	120	U	110	U	110	U
Acrylonitrile	UG/KG	110	U	120	U	120	U	110	U	110	U
Benzene	UG/KG	6	U	6	U	6	U	6	U	6	U
Bromodichloromethane	UG/KG	6	U	6	U	6	U	6	U	6	U
Bromoform	UG/KG	6	U	6	U	6	U	6	U	6	U
Bromomethane	UG/KG	11	U	12	U	12	U	11	U	11	U
2-Butanone	UG/KG	11	U	12	U	12	U	11	U	11	U
Carbon Disulfide	UG/KG	6	U	6	U	6	U	6	U	6	U
Carbon Tetrachloride	UG/KG	6	U	6	U	6	U	6	U	6	U
Chlorobenzene	UG/KG	6	U	6	U	6	U	6	U	6	U
Chlorodibromomethane	UG/KG	6	U	6	U	6	U	6	U	6	U
Chloroethane	UG/KG	11	U	12	U	12	U	11	U	11	U
Chloroform	UG/KG	6	U	6	U	6	U	6	U	6	U
Chloromethane	UG/KG	11	U	12	U	12	U	11	U	11	U
1,1-Dichloroethane	UG/KG	6	U	6	U	6	U	6	U	6	U
1,2-Dichloroethane	UG/KG	6	U	6	U	6	U	6	U	6	U
1,1-Dichloroethene	UG/KG	6	U	6	U	6	U	6	U	6	U
1,2-Dichloroethene	UG/KG	6	U	6	U	6	U	6	U	6	U
1,2-Dichloropropane	UG/KG	6	U	6	U	6	U	6	U	6	U
cis-1,3-Dichloropropene	UG/KG	6	U	6	U	6	U	6	U	6	U
trans-1,3-Dichloropropene	UG/KG	6	U	6	U	6	U	6	U	6	U
1,2-Diethylbenzene	UG/KG	23	U	23	U	24	U	23	U	23	U
Ethylbenzene	UG/KG	6	U	6	U	6	U	6	U	6	U
Hexane	UG/KG	11	U	12	U	12	U	11	U	11	U
2-Hexanone	UG/KG	11	U	12	U	12	U	11	U	11	U
Iodomethane	UG/KG	11	U	12	U	12	U	11	U	11	U
4-Methyl-2-pentanone	UG/KG	11	U	12	U	12	U	11	U	11	U
Methylene Chloride	UG/KG	10	U	84	U	21	U	12	U	12	U
Styrene	UG/KG	6	U	6	U	6	U	6	U	6	U
1,1,2,2-Tetrachloroethane	UG/KG	6	U	6	U	6	U	6	U	6	U
Tetrachloroethene	UG/KG	6	U	6	U	6	U	6	U	6	U
Toluene	UG/KG	6	U	6	U	6	U	6	U	6	U
1,1,1-Trichloroethane	UG/KG	6	U	6	U	6	U	6	U	6	U
1,1,2-Trichloroethane	UG/KG	6	U	6	U	6	U	6	U	6	U

APPENDIX F.2 TABLE OF ALL VALIDATED ANALYTICAL DATA FOR SOIL
OPERABLE UNIT 5, AOC 7

Trichloroethene	UG/KG	6	U	6	U	6	U	6	U	6	U
Trichlorotrifluoroethane	UG/KG	11	U	12	U	12	U	11	U	11	U
Vinyl Acetate	UG/KG	11	U	12	U	12	U	11	U	11	U
Vinyl Chloride	UG/KG	11	U	12	U	12	U	11	U	11	U
Xylene, Total	UG/KG	6	U	6	U	6	U	6	U	6	U
Tentatively Identified Compounds		2		1		1		1		1	

APPENDIX F.2 TABLE OF ALL VALIDATED ANALYTICAL DATA FOR SOIL
OPERABLE UNIT 5, AOC 7

MOUND OPERATIONAL AREA											
		B10003		B11001		B11002		B11003		B11004	
		627621 REG		628157 REG		628173 REG		628181 REG		628189 REG	
		7/20/94		7/21/94		7/21/94		7/21/94		7/21/94	
		Result	Val	Result	Val	Result	Val	Result	Val	Result	Val
Volatile Organics	Units										
Acetone	UG/KG	28	J	55	J	39	J	17	J	58	J
Acetonitrile	UG/KG	110	U	120	U	120	U	120	U	120	U
Acrylonitrile	UG/KG	110	U	120	U	120	U	120	U	120	U
Benzene	UG/KG	6	U	6	U	6	U	6	U	6	U
Bromodichloromethane	UG/KG	6	U	6	U	6	U	6	U	6	U
Bromoform	UG/KG	6	U	6	U	6	U	6	U	6	U
Bromomethane	UG/KG	11	U	12	U	12	U	12	U	12	U
2-Butanone	UG/KG	11	U	12	U	12	U	12	U	12	U
Carbon Disulfide	UG/KG	6	U	6	U	6	U	6	U	6	U
Carbon Tetrachloride	UG/KG	6	U	6	U	6	U	6	U	6	U
Chlorobenzene	UG/KG	6	U	6	U	6	U	6	U	6	U
Chlorodibromomethane	UG/KG	6	U	6	U	6	U	6	U	6	U
Chloroethane	UG/KG	11	U	12	U	12	U	12	U	12	U
Chloroform	UG/KG	6	U	6	U	6	U	6	U	6	U
Chloromethane	UG/KG	11	U	12	U	12	U	12	U	12	U
1,1-Dichloroethane	UG/KG	6	U	6	U	6	U	6	U	6	U
1,2-Dichloroethane	UG/KG	6	U	6	U	6	U	6	U	6	U
1,1-Dichloroethene	UG/KG	6	U	6	U	6	U	6	U	6	U
1,2-Dichloroethene	UG/KG	6	U	6	U	6	U	6	U	6	U
1,2-Dichloropropane	UG/KG	6	U	6	U	6	U	6	U	6	U
cis-1,3-Dichloropropene	UG/KG	6	U	6	U	6	U	6	U	6	U
trans-1,3-Dichloropropene	UG/KG	6	U	6	U	6	U	6	U	6	U
1,2-Diethylbenzene	UG/KG	23	U	23	U	24	U	23	U	25	U
Ethylbenzene	UG/KG	6	U	6	U	6	U	6	U	6	U
Hexane	UG/KG	11	U	12	U	12	U	12	U	12	U
2-Hexanone	UG/KG	11	U	12	U	12	U	12	U	12	U
Iodomethane	UG/KG	11	U	12	U	12	U	12	U	12	U
4-Methyl-2-pentanone	UG/KG	11	U	12	U	12	U	12	U	12	U
Methylene Chloride	UG/KG	18	U	19	U	10	U	12	U	11	U
Styrene	UG/KG	6	U	6	U	6	U	6	U	6	U
1,1,2,2-Tetrachloroethane	UG/KG	6	U	6	U	6	U	6	U	6	U
Tetrachloroethene	UG/KG	6	U	6	U	6	UJ	6	U	6	U
Toluene	UG/KG	6	U	6	U	4	J	6	U	6	U
1,1,1-Trichloroethane	UG/KG	6	U	6	U	6	U	6	U	6	U
1,1,2-Trichloroethane	UG/KG	6	U	6	U	6	U	6	U	6	U

APPENDIX F.2 TABLE OF ALL VALIDATED ANALYTICAL DATA FOR SOIL
OPERABLE UNIT 5, AOC 7

Trichloroethene	UG/KG	6	U	6	U	6	U	6	U	6	U
Trichlorotrifluoroethane	UG/KG	11	U	12	U	12	U	12	U	12	U
Vinyl Acetate	UG/KG	11	U	12	U	12	U	12	U	12	U
Vinyl Chloride	UG/KG	11	U	12	U	12	U	12	U	12	U
Xylene, Total	UG/KG	6	U	6	U	6	U	6	U	6	U
Tentatively Identified Compounds		1		1		1		1		1	

APPENDIX F.2 TABLE OF ALL VALIDATED ANALYTICAL DATA FOR SOIL
OPERABLE UNIT 5, AOC 7

MOUND OPERATIONAL AREA											
		B11102		B12001		B12002		B12003		B13001	
		628165 REG		627622 REG		627625 REG		627623 REG		623053 REG	
		07/21/94DUPE		7/20/94		7/20/94		7/20/94		7/5/94	
		Result	Val	Result	Val	Result	Val	Result	Val	Result	Val
Volatile Organics	Units										
Acetone	UG/KG	33	J	11	U	12	U	43	J	10	J
Acetonitrile	UG/KG	110	U	110	U	120	U	120	U	110	R
Acrylonitrile	UG/KG	110	U	110	U	120	U	120	U	110	UJ
Benzene	UG/KG	6	U	5	U	6	U	6	U	5	U
Bromodichloromethane	UG/KG	6	U	5	U	6	U	6	U	5	U
Bromoform	UG/KG	6	U	5	U	6	U	6	U	5	U
Bromomethane	UG/KG	11	U	11	U	12	U	12	U	11	U
2-Butanone	UG/KG	11	U	11	U	12	U	12	U	11	U
Carbon Disulfide	UG/KG	6	U	5	U	6	U	6	U	5	U
Carbon Tetrachloride	UG/KG	6	U	5	U	6	U	6	U	5	U
Chlorobenzene	UG/KG	6	U	5	U	6	U	6	U	5	U
Chlorodibromomethane	UG/KG	6	U	5	U	6	U	6	U	5	U
Chloroethane	UG/KG	11	U	11	U	12	U	12	U	11	U
Chloroform	UG/KG	6	U	5	U	6	U	6	U	5	U
Chloromethane	UG/KG	11	U	11	U	12	U	12	U	11	U
1,1-Dichloroethane	UG/KG	6	U	5	U	6	U	6	U	5	U
1,2-Dichloroethane	UG/KG	6	U	5	U	6	U	6	U	5	U
1,1-Dichloroethene	UG/KG	6	U	5	U	6	U	6	U	5	U
1,2-Dichloroethene	UG/KG	6	U	5	U	6	U	6	U	5	U
1,2-Dichloropropane	UG/KG	6	U	5	U	6	U	6	U	5	U
cis-1,3-Dichloropropene	UG/KG	6	U	5	U	6	U	6	U	5	U
trans-1,3-Dichloropropene	UG/KG	6	U	5	U	6	U	6	U	5	U
1,2-Diethylbenzene	UG/KG	23	U	21	U	24	U	23	U	22	U
Ethylbenzene	UG/KG	6	U	5	U	6	U	6	U	5	U
Hexane	UG/KG	11	U	11	U	12	U	12	U	11	U
2-Hexanone	UG/KG	11	U	11	U	12	U	12	U	11	U
Iodomethane	UG/KG	11	U	11	U	12	U	12	U	11	U
4-Methyl-2-pentanone	UG/KG	11	U	11	U	12	U	12	U	11	U
Methylene Chloride	UG/KG	11	U	11	U	6	U	57	U	5	U
Styrene	UG/KG	6	U	5	U	6	U	6	U	5	U
1,1,2,2-Tetrachloroethane	UG/KG	6	U	5	U	6	U	6	U	5	U
Tetrachloroethene	UG/KG	1	J	5	U	6	U	6	U	5	U
Toluene	UG/KG	1	J	5	U	6	U	6	U	5	U
1,1,1-Trichloroethane	UG/KG	6	U	5	U	6	U	6	U	5	U
1,1,2-Trichloroethane	UG/KG	6	U	5	U	6	U	6	U	5	U

APPENDIX F.2 TABLE OF ALL VALIDATED ANALYTICAL DATA FOR SOIL
OPERABLE UNIT 5, AOC 7

Trichloroethene	UG/KG	6	U	5	U	6	U	6	U	5	U
Trichlorotrifluoroethane	UG/KG	11	U	11	U	12	U	12	U	11	U
Vinyl Acetate	UG/KG	11	U	11	U	12	U	12	U	11	U
Vinyl Chloride	UG/KG	11	U	11	U	12	U	12	U	11	U
Xylene, Total	UG/KG	6	U	5	U	6	U	6	U	5	U
Tentatively Identified Compounds		1		1		1		1		1	

APPENDIX F.2 TABLE OF ALL VALIDATED ANALYTICAL DATA FOR SOIL
OPERABLE UNIT 5, AOC 7

MOUND OPERATIONAL AREA		B13002		B13003		B13004		B13005		B13006	
		623065 REG		623083 REG		623102 REG		623119 REG		623154 REG	
		7/5/94		7/5/94		7/5/94		7/5/94		7/5/94	
		Result	Val	Result	Val	Result	Val	Result	Val	Result	Val
Volatile Organics	**Units**										
Acetone	UG/KG	11		17		70		78		23	
Acetonitrile	UG/KG	120	R	120	R	120	R	110	R	110	R
Acrylonitrile	UG/KG	120	UJ	120	UJ	120	UJ	110	UJ	110	UJ
Benzene	UG/KG	6	U	6	U	6	U	6	U	6	U
Bromodichloromethane	UG/KG	6	U	6	U	6	U	6	U	6	U
Bromoform	UG/KG	6	U	6	U	6	U	6	U	6	U
Bromomethane	UG/KG	12	U	12	U	12	U	11	U	11	U
2-Butanone	UG/KG	12	U	12	U	12	U	11	U	11	U
Carbon Disulfide	UG/KG	6	U	6	U	6	U	6	U	6	U
Carbon Tetrachloride	UG/KG	6	U	6	U	6	U	6	U	6	U
Chlorobenzene	UG/KG	6	U	6	U	6	U	6	U	6	U
Chlorodibromomethane	UG/KG	6	U	6	U	6	U	6	U	6	U
Chloroethane	UG/KG	12	U	12	U	12	U	11	U	11	U
Chloroform	UG/KG	6	U	6	U	6	U	6	U	6	U
Chloromethane	UG/KG	12	U	12	U	12	U	11	U	11	U
1,1-Dichloroethane	UG/KG	6	U	6	U	6	U	6	U	6	U
1,2-Dichloroethane	UG/KG	6	U	6	U	6	U	6	U	6	U
1,1-Dichloroethene	UG/KG	6	U	6	U	6	U	6	U	6	U
1,2-Dichloroethene	UG/KG	6	U	6	U	6	U	6	U	6	U
1,2-Dichloropropane	UG/KG	6	U	6	U	6	U	6	U	6	U
cis-1,3-Dichloropropene	UG/KG	6	U	6	U	6	U	6	U	6	U
trans-1,3-Dichloropropene	UG/KG	6	U	6	U	6	U	6	U	6	U
1,2-Diethylbenzene	UG/KG	24	U	24	U	25	U	23	U	23	U
Ethylbenzene	UG/KG	6	U	6	U	6	U	6	U	6	U
Hexane	UG/KG	12	U	12	U	12	U	11	U	11	U
2-Hexanone	UG/KG	12	U	12	U	12	U	11	U	11	U
Iodomethane	UG/KG	12	U	12	U	12	U	11	U	11	U
4-Methyl-2-pentanone	UG/KG	12	U	12	U	12	U	11	U	11	U
Methylene Chloride	UG/KG	6	U	7	U	24	U	6	U	7	U
Styrene	UG/KG	6	U	6	U	6	U	6	U	6	U
1,1,2,2-Tetrachloroethane	UG/KG	6	U	6	U	6	U	6	U	6	U
Tetrachloroethene	UG/KG	6	U	6	U	6	U	6	U	6	U
Toluene	UG/KG	6	U	6	U	6	U	6	U	6	U
1,1,1-Trichloroethane	UG/KG	6	U	6	U	6	U	6	U	6	U
1,1,2-Trichloroethane	UG/KG	6	U	6	U	6	U	6	U	6	U

APPENDIX F.2 TABLE OF ALL VALIDATED ANALYTICAL DATA FOR SOIL
OPERABLE UNIT 5, AOC 7

Trichloroethene	UG/KG	6	U	6	U	6	U	6	U	6	U
Trichlorotrifluoroethane	UG/KG	12	U	12	U	12	U	11	U	11	U
Vinyl Acetate	UG/KG	12	U	12	U	12	U	11	U	11	U
Vinyl Chloride	UG/KG	12	U	12	U	12	U	11	U	11	U
Xylene, Total	UG/KG	6	U	6	U	6	U	6	U	6	U
Tentatively Identified Compounds		1		1		1		1		1	

APPENDIX F.2 TABLE OF ALL VALIDATED ANALYTICAL DATA FOR SOIL
OPERABLE UNIT 5, AOC 7

MOUND OPERATIONAL AREA											
		B14001		B14002		B14003		B14004		B14104	
		623868 REG		623900 REG		623916 REG		624381 REG		624373 REG	
		7/7/94		7/7/94		7/7/94		7/8/94		07/08/94DUPE	
		Result	Val	Result	Val	Result	Val	Result	Val	Result	Val
Volatile Organics	Units										
Acetone	UG/KG	22	U	15	U	25	U	47	U	29	U
Acetonitrile	UG/KG	110	R	110	R	120	R	130	R	120	R
Acrylonitrile	UG/KG	110	U	110	U	120	UJ	130	U	120	U
Benzene	UG/KG	6	U	5	U	6	U	7	U	6	U
Bromodichloromethane	UG/KG	6	U	5	U	6	U	7	U	6	U
Bromoform	UG/KG	6	U	5	U	6	U	7	U	6	U
Bromomethane	UG/KG	11	U	11	U	12	U	13	U	12	U
2-Butanone	UG/KG	11	U	11	U	12	U	13	U	12	U
Carbon Disulfide	UG/KG	6	U	5	U	6	U	7	U	6	U
Carbon Tetrachloride	UG/KG	6	U	5	U	6	U	7	U	6	U
Chlorobenzene	UG/KG	6	U	5	U	6	U	7	U	6	U
Chlorodibromomethane	UG/KG	6	U	5	U	6	U	7	U	6	U
Chloroethane	UG/KG	11	U	11	U	12	U	13	U	12	U
Chloroform	UG/KG	6	U	5	U	6	U	7	U	6	U
Chloromethane	UG/KG	11	UJ	11	UJ	12	U	13	UJ	12	UJ
1,1-Dichloroethane	UG/KG	6	U	5	U	6	U	7	U	6	U
1,2-Dichloroethane	UG/KG	6	U	5	U	6	U	7	U	6	U
1,1-Dichloroethene	UG/KG	6	U	5	U	6	U	7	U	6	U
1,2-Dichloroethene	UG/KG	6	U	5	U	6	U	7	U	6	U
1,2-Dichloropropane	UG/KG	6	U	5	U	6	U	7	U	6	U
cis-1,3-Dichloropropene	UG/KG	6	U	5	U	6	U	7	U	6	U
trans-1,3-Dichloropropene	UG/KG	6	U	5	U	6	U	7	U	6	U
1,2-Diethylbenzene	UG/KG	22	U	22	U	13		26	U	24	U
Ethylbenzene	UG/KG	6	U	5	U	6	U	7	U	6	U
Hexane	UG/KG	2	J	1	J	1		42		4	J
2-Hexanone	UG/KG	11	U	11	U	12	U	13	U	12	U
Iodomethane	UG/KG	11	U	11	U	12	U	13	U	12	U
4-Methyl-2-pentanone	UG/KG	11	U	11	U	12	U	13	U	12	U
Methylene Chloride	UG/KG	46	U	12	U	22	U	160	U	22	U
Styrene	UG/KG	6	U	5	U	6	U	7	U	6	U
1,1,2,2-Tetrachloroethane	UG/KG	6	U	5	U	6	U	7	U	6	U
Tetrachloroethene	UG/KG	6	U	5	U	6	U	7	U	6	U
Toluene	UG/KG	6	U	5	U	2	J	3	J	6	U
1,1,1-Trichloroethane	UG/KG	6	U	5	U	6	U	7	U	6	U
1,1,2-Trichloroethane	UG/KG	6	U	5	U	6	U	7	U	6	U

APPENDIX F.2 TABLE OF ALL VALIDATED ANALYTICAL DATA FOR SOIL
OPERABLE UNIT 5, AOC 7

Trichloroethene	UG/KG	6	U	5	U	6	U	7	U	6	U
Trichlorotrifluoroethane	UG/KG	11	U	11	U	12	U	13	U	12	U
Vinyl Acetate	UG/KG	11	U	11	U	12	U	13	U	12	U
Vinyl Chloride	UG/KG	11	U	11	U	12	U	13	U	12	U
Xylene, Total	UG/KG	6	U	5	U	6	U	7	U	6	U
Tentatively Identified Compounds		2				11		1			

APPENDIX F.2 TABLE OF ALL VALIDATED ANALYTICAL DATA FOR SOIL
OPERABLE UNIT 5, AOC 7

MOUND OPERATIONAL AREA		B15001		B15002		B15003		B15004		B15101	
		629806 REG		629822 REG		629830 REG		629838 REG		629814 REG	
		7/27/94		7/27/94		7/27/94		7/27/94		07/27/94DUPE	
		Result	Val	Result	Val	Result	Val	Result	Val	Result	Val
Volatile Organics	Units										
Acetone	UG/KG	15	UJ	48	U	21	UJ	51	J	13	UJ
Acetonitrile	UG/KG	150	U	230	U	210	U	240	U	130	U
Acrylonitrile	UG/KG	150	U	230	U	210	U	240	U	130	U
Benzene	UG/KG	8	U	12	U	10	U	12	U	7	U
Bromodichloromethane	UG/KG	8	U	12	U	10	U	12	U	7	U
Bromoform	UG/KG	8	U	12	U	10	U	12	U	7	U
Bromomethane	UG/KG	15	U	23	U	21	U	24	U	13	U
2-Butanone	UG/KG	15	U	23	U	21	U	24	U	13	U
Carbon Disulfide	UG/KG	8	U	12	U	10	U	12	U	7	U
Carbon Tetrachloride	UG/KG	8	U	12	U	10	U	12	U	7	U
Chlorobenzene	UG/KG	8	U	12	U	10	U	12	U	7	U
Chlorodibromomethane	UG/KG	8	U	12	U	10	U	12	U	7	U
Chloroethane	UG/KG	15	U	23	U	21	U	24	U	13	U
Chloroform	UG/KG	8	U	12	U	10	U	12	U	7	U
Chloromethane	UG/KG	15	U	23	U	21	U	24	U	13	U
1,1-Dichloroethane	UG/KG	8	U	12	U	10	U	12	U	7	U
1,2-Dichloroethane	UG/KG	8	U	12	U	10	U	12	U	7	U
1,1-Dichloroethene	UG/KG	8	U	12	U	10	U	12	U	7	U
1,2-Dichloroethene	UG/KG	8	U	12	U	10	U	12	U	7	U
1,2-Dichloropropane	UG/KG	8	U	12	U	10	U	12	U	7	U
cis-1,3-Dichloropropene	UG/KG	8	U	12	U	10	U	12	U	7	U
trans-1,3-Dichloropropene	UG/KG	8	U	12	U	10	U	12	U	7	U
1,2-Diethylbenzene	UG/KG	31	U	47	U	42	U	49	U	26	U
Ethylbenzene	UG/KG	8	U	12	U	10	U	12	U	7	U
Hexane	UG/KG	15	U	23	U	21	U	24	U	13	U
2-Hexanone	UG/KG	15	U	23	U	21	U	24	U	13	U
Iodomethane	UG/KG	15	U	23	U	21	U	24	U	13	U
4-Methyl-2-pentanone	UG/KG	15	U	23	U	21	U	24	U	13	U
Methylene Chloride	UG/KG	19	U	34	U	57	U	40	U	19	U
Styrene	UG/KG	8	U	12	U	10	U	12	U	7	U
1,1,2,2-Tetrachloroethane	UG/KG	8	U	12	U	10	U	12	U	7	U
Tetrachloroethene	UG/KG	8	U	12	U	10	U	12	U	7	U
Toluene	UG/KG	8	U	12	U	10	U	12	U	7	U
1,1,1-Trichloroethane	UG/KG	8	U	12	U	10	U	12	U	7	U
1,1,2-Trichloroethane	UG/KG	8	U	12	U	10	U	12	U	7	U

APPENDIX F.2 TABLE OF ALL VALIDATED ANALYTICAL DATA FOR SOIL
OPERABLE UNIT 5, AOC 7

Trichloroethene	UG/KG	8	U	12	U	10	U	12	U	7	U
Trichlorotrifluoroethane	UG/KG	15	U	23	U	21	U	24	U	13	U
Vinyl Acetate	UG/KG	15	U	23	U	21	U	24	U	13	U
Vinyl Chloride	UG/KG	15	U	23	U	21	U	24	U	13	U
Xylene, Total	UG/KG	8	U	12	U	10	U	12	U	7	U
Tentatively Identified Compounds		1		1		1		1		1	

APPENDIX F.2 TABLE OF ALL VALIDATED ANALYTICAL DATA FOR SOIL
OPERABLE UNIT 5, AOC 7

MOUND OPERATIONAL AREA											
		B15104		B16002		B16004		B16005		B16007	
		629846 REG		622316 REG		622649 REG		622652 REG		629201 REG	
		07/27/94DUPE		6/29/94		6/30/94		6/30/94		7/25/94	
		Result	Val	Result	Val	Result	Val	Result	Val	Result	Val
Volatile Organics	Units										
Acetone	UG/KG	26	UJ	29	U	20	U	55	U	250	U
Acetonitrile	UG/KG	260	U	110	R	110	U	120	U	160	U
Acrylonitrile	UG/KG	260	U	110	U	110	U	120	U	160	U
Benzene	UG/KG	13	U	6	U	5	U	6	U	8	U
Bromodichloromethane	UG/KG	13	U	6	U	5	U	6	U	8	U
Bromoform	UG/KG	13	U	6	U	5	U	6	U	8	U
Bromomethane	UG/KG	26	U	11	U	11	U	12	U	16	U
2-Butanone	UG/KG	26	U	11	U	11	U	12	U	110	
Carbon Disulfide	UG/KG	13	U	6	U	5	U	6	U	8	U
Carbon Tetrachloride	UG/KG	13	U	6	UJ	5	U	6	U	8	U
Chlorobenzene	UG/KG	13	U	6	U	5	U	6	U	8	U
Chlorodibromomethane	UG/KG	13	U	6	U	5	U	6	U	8	U
Chloroethane	UG/KG	26	U	11	U	11	U	12	U	16	U
Chloroform	UG/KG	13	U	6	U	5	U	6	U	8	U
Chloromethane	UG/KG	26	U	11	UJ	11	U	12	U	16	U
1,1-Dichloroethane	UG/KG	13	U	6	U	5	U	6	U	8	U
1,2-Dichloroethane	UG/KG	13	U	6	U	5	U	6	U	8	U
1,1-Dichloroethene	UG/KG	13	U	6	U	5	U	6	U	8	U
1,2-Dichloroethene	UG/KG	13	U	6	U	5	U	6	U	8	U
1,2-Dichloropropane	UG/KG	13	U	6	U	5	U	6	U	8	U
cis-1,3-Dichloropropene	UG/KG	13	U	6	U	5	U	6	U	8	U
trans-1,3-Dichloropropene	UG/KG	13	U	6	U	5	U	6	U	8	U
1,2-Diethylbenzene	UG/KG	51	U	22	U	22	U	24	U	31	U
Ethylbenzene	UG/KG	13	U	6	U	5	U	6	U	8	U
Hexane	UG/KG	26	U	11	U	11	U	12	U	16	U
2-Hexanone	UG/KG	26	U	11	U	11	U	12	U	16	U
Iodomethane	UG/KG	26	U	11	U	11	U	12	U	16	U
4-Methyl-2-pentanone	UG/KG	26	U	11	U	11	U	12	U	16	U
Methylene Chloride	UG/KG	87	U	7	U	7	U	15	U	41	U
Styrene	UG/KG	13	U	6	U	5	U	6	U	8	U
1,1,2,2-Tetrachloroethane	UG/KG	13	U	6	U	5	U	6	U	8	U
Tetrachloroethene	UG/KG	13	U	6	U	5	U	6	U	8	U
Toluene	UG/KG	13	U	6	U	5	U	6	U	2	J
1,1,1-Trichloroethane	UG/KG	13	U	6	U	5	U	6	U	8	U
1,1,2-Trichloroethane	UG/KG	13	U	6	U	5	U	6	U	8	U

APPENDIX F.2 TABLE OF ALL VALIDATED ANALYTICAL DATA FOR SOIL
OPERABLE UNIT 5, AOC 7

Trichloroethene	UG/KG	13	U	6	U	5	U	6	U	8	U
Trichlorotrifluoroethane	UG/KG	26	U	11	U	11	U	12	U	16	U
Vinyl Acetate	UG/KG	26	U	11	U	11	U	12	U	16	U
Vinyl Chloride	UG/KG	26	U	11	UJ	11	U	12	U	16	U
Xylene, Total	UG/KG	13	U	6	U	5	U	6	U	8	U
Tentatively Identified Compounds		1		1		1		1		1	

APPENDIX F.2 TABLE OF ALL VALIDATED ANALYTICAL DATA FOR SOIL
OPERABLE UNIT 5, AOC 7

MOUND OPERATIONAL AREA											
		B01001		B01002		B01003		B01004		B01005	
		619966 REG		619973 REG		619974 REG		619975 REG		619976 REG	
		6/20/94		6/20/94		6/20/94		6/20/94		6/20/94	
		Result	Val	Result	Val	Result	Val	Result	Val	Result	Val
Semi-volatile Organics	Units										
Acenaphthene	UG/KG	62	J	83	J	390	U	360	U	360	U
Acenaphthylene	UG/KG	350	U	370	U	390	U	360	U	360	U
Anthracene	UG/KG	130	J	120	J	390	U	360	U	360	U
Benzo(a)anthracene	UG/KG	280	J	240	J	390	U	360	U	360	U
Benzo(a)pyrene	UG/KG	230	J	210	J	390	U	360	U	360	U
Benzo(b)fluoranthene	UG/KG	430		370		390	U	360	U	360	U
Benzo(g,h,i)perylene	UG/KG	54	J	97	J	390	U	360	U	360	U
Benzo(k)fluoranthene	UG/KG	750		620		390	U	360	U	360	U
Benzoic Acid	UG/KG	1700	U	1800	U	1900	U	1800	U	1700	U
Benzyl Alcohol	UG/KG	350	U	370	U	390	U	360	U	360	U
2-Benzyl-4-Chlorophenol	UG/KG	350	U	370	U	390	U	360	U	360	U
bis(2-Chloroethoxy)methane	UG/KG	350	U	370	U	390	U	360	U	360	U
bis(2-Chloroethyl)ether	UG/KG	350	U	370	U	390	U	360	U	360	U
bis(2-Ethylhexyl)phthalate	UG/KG	80	J	370	U	390	U	360	U	360	U
4-Bromophenyl-phenylether	UG/KG	350	U	370	U	390	U	360	U	360	U
Butylbenzylphthalate	UG/KG	350	U	370	U	390	U	360	U	360	U
Carbazole	UG/KG	60	J	72	J	390	U	360	U	360	U
4-Chloro-3-methylphenol	UG/KG	350	U	370	U	390	U	360	U	360	U
4-Chloroaniline	UG/KG	350	U	370	U	390	U	360	U	360	U
2-Chloronaphthalene	UG/KG	350	U	370	U	390	U	360	U	360	U
2-Chlorophenol	UG/KG	350	U	370	U	390	U	360	U	360	U
4-Chlorophenyl-phenylether	UG/KG	350	U	370	U	390	U	360	U	360	U
Chrysene	UG/KG	240	J	240	J	390	U	360	U	360	U
Di-n-butylphthalate	UG/KG	66	J	48	J	50	J	63	J	99	J
Di-n-octylphthalate	UG/KG	350	U	370	UJ	390	UJ	360	UJ	360	UJ
Dibenzo(a,h)anthracene	UG/KG	350	U	370	U	390	U	360	U	360	U
Dibenzofuran	UG/KG	350	U	38	J	390	U	360	U	360	U
1,2-Dichlorobenzene	UG/KG	350	U	370	U	390	U	360	U	360	U
1,3-Dichlorobenzene	UG/KG	350	U	370	U	390	U	360	U	360	U
1,4-Dichlorobenzene	UG/KG	350	U	370	U	390	U	360	U	360	U

APPENDIX F.2 TABLE OF ALL VALIDATED ANALYTICAL DATA FOR SOIL
OPERABLE UNIT 5, AOC 7

3,3'-Dichlorobenzidine	UG/KG	700	U	740	U	790	U	720	U	710	U
2,4-Dichlorophenol	UG/KG	350	U	370	U	390	U	360	U	360	U
Diethylphthalate	UG/KG	350	U	370	U	390	U	360	U	360	U
2,4-Dimethylphenol	UG/KG	350	U	370	U	390	U	360	U	360	U
Dimethylphthalate	UG/KG	350	U	370	U	390	U	360	U	360	U
4,6-Dinitro-2-methylphenol	UG/KG	1700	U	1800	U	1900	U	1800	U	1700	U
2,4-Dinitrophenol	UG/KG	1700	U	1800	U	1900	U	1800	U	1700	U
2,4-Dinitrotoluene	UG/KG	350	U	370	U	390	U	360	U	360	U
2,6-Dinitrotoluene	UG/KG	350	U	370	U	390	U	360	U	360	U
Fluoranthene	UG/KG	640		630		390	U	360	U	360	U
Fluorene	UG/KG	59	J	65	J	390	U	360	U	360	U
Hexachlorobenzene	UG/KG	350	U	370	U	390	U	360	U	360	U
Hexachlorobutadiene	UG/KG	350	U	370	U	390	U	360	U	360	U
Hexachlorocyclopentadiene	UG/KG	350	U	370	U	390	U	360	U	360	U
Hexachloroethane	UG/KG	350	U	370	U	390	U	360	U	360	U
Indeno(1,2,3-c,d)pyrene	UG/KG	75	J	110	J	390	U	360	U	360	U
Isophorone	UG/KG	350	U	370	U	390	U	360	U	360	U
2-Methylnaphthalene	UG/KG	350	U	370	U	390	U	360	U	360	U
2-Methylphenol	UG/KG	350	U	370	U	390	U	360	U	360	U
4-Methylphenol	UG/KG	350	U	370	U	390	U	360	U	360	U
N-Nitroso-di-n-propylamine	UG/KG	350	U	370	U	390	U	360	U	360	U
N-Nitrosodiphenylamine	UG/KG	350	U	370	U	390	U	360	U	360	U
Naphthalene	UG/KG	350	U	370	U	390	U	360	U	360	U
2-Nitroaniline	UG/KG	1700	U	1800	U	1900	U	1800	U	1700	U
3-Nitroaniline	UG/KG	1700	U	1800	U	1900	U	1800	U	1700	U
4-Nitroaniline	UG/KG	1700	U	1800	U	1900	U	1800	U	1700	U
Nitrobenzene	UG/KG	350	U	370	U	390	U	360	U	360	U
2-Nitrophenol	UG/KG	350	U	370	U	390	U	360	U	360	U
4-Nitrophenol	UG/KG	1700	U	1800	U	1900	U	1800	U	1700	U
2,2'-oxybis(1-Chloropropane)	UG/KG	350	U	370	U	390	U	360	U	360	U
Pentachlorophenol	UG/KG	1700	U	1800	U	1900	U	1800	U	1700	U
Phenanthrene	UG/KG	520		540		390	U	360	U	360	U
Phenol	UG/KG	350	U	370	U	390	U	360	U	360	U
Pyrene	UG/KG	340	J	470		390	U	360	U	360	U
1,2,4-Trichlorobenzene	UG/KG	350	U	370	U	390	U	360	U	360	U
2,4,5-Trichlorophenol	UG/KG	1700	U	1800	U	1900	U	1800	U	1700	U
2,4,6-Trichlorophenol	UG/KG	350	U	370	U	390	U	360	U	360	U

APPENDIX F.2 TABLE OF ALL VALIDATED ANALYTICAL DATA FOR SOIL
OPERABLE UNIT 5, AOC 7

Tentatively Identified Compounds		23		14		11		24		23		

APPENDIX F.2 TABLE OF ALL VALIDATED ANALYTICAL DATA FOR SOIL
OPERABLE UNIT 5, AOC 7

MOUND OPERATIONAL AREA											
		B01006		B01007		B02001		B02002		B03001	
		619977 REG		620194 REG		620216 REG		620228 REG		REG	
		6/20/94		6/20/94		6/21/94		6/21/94		6/23/94	
		Result	Val	Result	Val	Result	Val	Result	Val	Result	Val
Semi-volatile Organics	Units										
Acenaphthene	UG/KG	360	U	360	U	360	U	380	U	340	U
Acenaphthylene	UG/KG	360	U	360	U	360	U	380	U	340	U
Anthracene	UG/KG	360	U	360	U	26	J	380	U	47	J
Benzo(a)anthracene	UG/KG	360	U	360	U	64	J	380	U	190	J
Benzo(a)pyrene	UG/KG	360	U	360	U	52	J	380	U	270	J
Benzo(b)fluoranthene	UG/KG	360	U	360	U	120	J	380	U	460	
Benzo(g,h,i)perylene	UG/KG	360	U	360	U	360	U	380	U	110	J
Benzo(k)fluoranthene	UG/KG	360	U	360	U	210	J	380	U	780	
Benzoic Acid	UG/KG	1700	U	1800	U	1800	U	1800	U	1700	U
Benzyl Alcohol	UG/KG	360	U	360	U	360	U	380	U	340	U
2-Benzyl-4-Chlorophenol	UG/KG	360	U	360	U	360	U	380	U	340	U
bis(2-Chloroethoxy)methane	UG/KG	360	U	360	U	360	U	380	U	340	U
bis(2-Chloroethyl)ether	UG/KG	360	U	360	U	360	U	380	U	340	U
bis(2-Ethylhexyl)phthalate	UG/KG	360	U	62	J	67	J	380	UJ	340	U
4-Bromophenyl-phenylether	UG/KG	360	U	360	U	360	U	380	U	340	U
Butylbenzylphthalate	UG/KG	360	U	360	U	360	U	380	U	340	U
Carbazole	UG/KG	360	U	360	U	360	U	380	U	37	J
4-Chloro-3-methylphenol	UG/KG	360	U	360	U	360	U	380	U	340	U
4-Chloroaniline	UG/KG	360	U	360	U	360	U	380	U	340	U
2-Chloronaphthalene	UG/KG	360	U	360	U	360	U	380	U	340	U
2-Chlorophenol	UG/KG	360	U	360	U	360	U	380	U	340	U
4-Chlorophenyl-phenylether	UG/KG	360	U	360	U	360	U	380	U	340	U
Chrysene	UG/KG	360	U	360	U	60	J	380	U	230	J
Di-n-butylphthalate	UG/KG	56	J	54	J	360	U	42	J	340	U
Di-n-octylphthalate	UG/KG	360	UJ	360	UJ	360	U	380	U	340	U
Dibenzo(a,h)anthracene	UG/KG	360	U	360	U	360	U	380	U	340	U
Dibenzofuran	UG/KG	360	U	360	U	360	U	380	U	340	U
1,2-Dichlorobenzene	UG/KG	360	U	360	U	360	U	380	U	340	U
1,3-Dichlorobenzene	UG/KG	360	U	360	U	360	U	380	U	340	U
1,4-Dichlorobenzene	UG/KG	360	U	360	U	360	U	380	U	340	U
3,3'-Dichlorobenzidine	UG/KG	720	U	730	U	360	U	760	U	680	U
2,4-Dichlorophenol	UG/KG	360	U	360	U	360	U	380	U	340	U
Diethylphthalate	UG/KG	360	U	360	U	360	U	380	U	340	U
2,4-Dimethylphenol	UG/KG	360	U	360	U	360	U	380	U	340	U
Dimethylphthalate	UG/KG	360	U	360	U	360	U	380	U	340	U

APPENDIX F.2 TABLE OF ALL VALIDATED ANALYTICAL DATA FOR SOIL
OPERABLE UNIT 5, AOC 7

4,6-Dinitro-2-methylphenol	UG/KG	1700	U	1800	U	900	U	1800	U	1700	U
2,4-Dinitrophenol	UG/KG	1700	U	1800	U	900	U	1800	U	1700	U
2,4-Dinitrotoluene	UG/KG	360	U	360	U	360	U	380	U	340	U
2,6-Dinitrotoluene	UG/KG	360	U	360	U	360	U	380	U	340	U
Fluoranthene	UG/KG	360	U	360	U	140	J	380	U	430	
Fluorene	UG/KG	360	U	360	U	360	U	380	U	340	U
Hexachlorobenzene	UG/KG	360	U	360	U	360	U	380	U	340	U
Hexachlorobutadiene	UG/KG	360	U	360	U	360	U	380	U	340	U
Hexachlorocyclopentadiene	UG/KG	360	U	360	U	360	U	380	U	340	U
Hexachloroethane	UG/KG	360	U	360	U	360	U	380	U	340	U
Indeno(1,2,3-c,d)pyrene	UG/KG	360	U	360	U	360	U	380	U	120	J
Isophorone	UG/KG	360	U	360	U	360	U	380	U	340	U
2-Methylnaphthalene	UG/KG	360	U	360	U	360	U	380	U	58	J
2-Methylphenol	UG/KG	360	U	360	U	360	U	380	U	340	U
4-Methylphenol	UG/KG	360	U	360	U	360	U	380	U	340	U
N-Nitroso-di-n-propylamine	UG/KG	360	U	360	U	360	U	380	U	340	U
N-Nitrosodiphenylamine	UG/KG	360	U	360	U	360	U	380	U	340	U
Naphthalene	UG/KG	360	U	360	U	360	U	380	U	340	U
2-Nitroaniline	UG/KG	1700	U	1800	U	900	U	1800	U	1700	U
3-Nitroaniline	UG/KG	1700	U	1800	U	900	U	1800	U	1700	U
4-Nitroaniline	UG/KG	1700	U	1800	U	900	U	1800	U	1700	U
Nitrobenzene	UG/KG	360	U	360	U	360	U	380	U	340	U
2-Nitrophenol	UG/KG	360	U	360	U	360	U	380	U	340	U
4-Nitrophenol	UG/KG	1700	U	1800	U	900	U	1800	U	1700	U
2,2'-oxybis(1-Chloropropane)	UG/KG	360	U	360	U	360	U	380	U	340	U
Pentachlorophenol	UG/KG	1700	U	1800	U	900	U	1800	U	1700	U
Phenanthrene	UG/KG	360	U	360	U	98	J	380	U	230	J
Phenol	UG/KG	360	U	360	U	360	U	380	U	340	U
Pyrene	UG/KG	360	U	360	U	91	J	380	U	620	
1,2,4-Trichlorobenzene	UG/KG	360	U	360	U	360	U	380	U	340	U
2,4,5-Trichlorophenol	UG/KG	1700	U	1800	U	900	U	1800	U	1700	U
2,4,6-Trichlorophenol	UG/KG	360	U	360	U	360	U	380	U	340	U
Tentatively Identified Compounds		22		22		15		14		21	

APPENDIX F.2 TABLE OF ALL VALIDATED ANALYTICAL DATA FOR SOIL
OPERABLE UNIT 5, AOC 7

MOUND OPERATIONAL AREA											
		B03002		B03003		B03004		B03005		B04001	
		620976 REG		620977 REG		620978 REG		621436 REG		620683 REG	
		6/23/94		6/23/94		6/23/94		6/27/94		6/22/94	
		Result	Val	Result	Val	Result	Val	Result	Val	Result	Val
Semi-volatile Organics	Units										
Acenaphthene	UG/KG	370	U	390	U	420	U	380	U	61	J
Acenaphthylene	UG/KG	370	U	390	U	420	U	380	U	360	U
Anthracene	UG/KG	48	J	390	U	91	J	380	U	110	J
Benzo(a)anthracene	UG/KG	180	J	390	U	220	J	380	U	270	J
Benzo(a)pyrene	UG/KG	160	J	390	U	200	J	380	U	290	J
Benzo(b)fluoranthene	UG/KG	260	J	390	U	320	J	380	U	340	J
Benzo(g,h,i)perylene	UG/KG	49	J	390	U	73	J	380	U	230	J
Benzo(k)fluoranthene	UG/KG	450	J	390	U	550		380	U	700	
Benzoic Acid	UG/KG	1800	U	1900	U	2000	U	1800	U	1800	U
Benzyl Alcohol	UG/KG	370	U	390	U	420	U	380	U	360	U
2-Benzyl-4-Chlorophenol	UG/KG	370	U	390	U	420	U	380	U	360	U
bis(2-Chloroethoxy)methane	UG/KG	370	U	390	U	420	U	380	U	360	U
bis(2-Chloroethyl)ether	UG/KG	370	U	390	U	420	U	380	U	360	U
bis(2-Ethylhexyl)phthalate	UG/KG	370	U	390	U	43	J	380	U	360	U
4-Bromophenyl-phenylether	UG/KG	370	U	390	U	420	U	380	U	360	U
Butylbenzylphthalate	UG/KG	370	U	390	U	420	U	380	U	360	U
Carbazole	UG/KG	370	U	390	U	47	J	380	U	57	J
4-Chloro-3-methylphenol	UG/KG	370	U	390	U	420	U	380	U	360	U
4-Chloroaniline	UG/KG	370	U	390	U	420	U	380	U	360	U
2-Chloronaphthalene	UG/KG	370	U	390	U	420	U	380	U	360	U
2-Chlorophenol	UG/KG	370	U	390	U	420	U	380	U	360	U
4-Chlorophenyl-phenylether	UG/KG	370	U	390	U	420	U	380	U	360	U
Chrysene	UG/KG	160	J	390	U	210	J	380	U	300	J
Di-n-butylphthalate	UG/KG	130	J	66	J	44	J	380	U	360	U
Di-n-octylphthalate	UG/KG	370	U	390	U	420	U	380	U	360	U
Dibenzo(a,h)anthracene	UG/KG	55	J	390	U	46	J	380	U	72	J
Dibenzofuran	UG/KG	370	U	390	U	420	U	380	U	360	U
1,2-Dichlorobenzene	UG/KG	370	U	390	U	420	U	380	U	360	U
1,3-Dichlorobenzene	UG/KG	370	U	390	U	420	U	380	U	360	U
1,4-Dichlorobenzene	UG/KG	370	U	390	U	420	U	380	U	360	U
3,3'-Dichlorobenzidine	UG/KG	740	U	780	U	840	U	760	U	730	U
2,4-Dichlorophenol	UG/KG	370	U	390	U	420	U	380	U	360	U
Diethylphthalate	UG/KG	370	U	390	U	420	U	380	U	360	U
2,4-Dimethylphenol	UG/KG	370	U	390	U	420	U	380	U	360	U
Dimethylphthalate	UG/KG	370	U	390	U	420	U	380	U	360	U

APPENDIX F.2 TABLE OF ALL VALIDATED ANALYTICAL DATA FOR SOIL
OPERABLE UNIT 5, AOC 7

4,6-Dinitro-2-methylphenol	UG/KG	1800	U	1900	U	2000	U	1800	U	1800	U
2,4-Dinitrophenol	UG/KG	1800	U	1900	U	2000	U	1800	U	1800	U
2,4-Dinitrotoluene	UG/KG	370	U	390	U	420	U	380	U	360	U
2,6-Dinitrotoluene	UG/KG	370	U	390	U	420	U	380	U	360	U
Fluoranthene	UG/KG	360	J	390	U	480		380	U	570	
Fluorene	UG/KG	370	U	390	U	44	J	380	U	68	J
Hexachlorobenzene	UG/KG	370	U	390	U	420	U	380	U	360	U
Hexachlorobutadiene	UG/KG	370	U	390	U	420	U	380	U	360	U
Hexachlorocyclopentadiene	UG/KG	370	U	390	U	420	U	380	U	360	U
Hexachloroethane	UG/KG	370	U	390	U	420	U	380	U	360	U
Indeno(1,2,3-c,d)pyrene	UG/KG	110	J	390	U	120	J	380	U	200	J
Isophorone	UG/KG	370	U	390	U	420	U	380	U	360	U
2-Methylnaphthalene	UG/KG	370	U	390	U	420	U	380	U	360	U
2-Methylphenol	UG/KG	370	U	390	U	420	U	380	U	360	U
4-Methylphenol	UG/KG	370	U	390	U	420	U	380	U	360	U
N-Nitroso-di-n-propylamine	UG/KG	370	U	390	U	420	U	380	U	360	U
N-Nitrosodiphenylamine	UG/KG	370	U	390	U	420	U	380	U	360	U
Naphthalene	UG/KG	370	U	390	U	420	U	380	U	360	U
2-Nitroaniline	UG/KG	1800	U	1900	U	2000	U	1800	U	1800	U
3-Nitroaniline	UG/KG	1800	U	1900	U	2000	U	1800	U	1800	U
4-Nitroaniline	UG/KG	1800	U	1900	U	2000	U	1800	U	1800	U
Nitrobenzene	UG/KG	370	U	390	U	420	U	380	U	360	U
2-Nitrophenol	UG/KG	370	U	390	U	420	U	380	U	360	U
4-Nitrophenol	UG/KG	1800	U	1900	U	2000	U	1800	U	1800	U
2,2'-oxybis(1-Chloropropane)	UG/KG	370	U	390	U	420	U	380	U	360	U
Pentachlorophenol	UG/KG	1800	U	1900	U	2000	U	1800	U	1800	U
Phenanthrene	UG/KG	260	J	390	U	410	J	380	U	480	
Phenol	UG/KG	370	U	390	U	420	U	380	U	360	U
Pyrene	UG/KG	310	J	390	U	420		380	U	480	
1,2,4-Trichlorobenzene	UG/KG	370	U	390	U	420	U	380	U	360	U
2,4,5-Trichlorophenol	UG/KG	1800	U	1900	U	2000	U	1800	U	1800	U
2,4,6-Trichlorophenol	UG/KG	370	U	390	U	420	U	380	U	360	U
Tentatively Identified Compounds		24		16		21		1		19	

APPENDIX F.2 TABLE OF ALL VALIDATED ANALYTICAL DATA FOR SOIL
OPERABLE UNIT 5, AOC 7

MOUND OPERATIONAL AREA											
		B04002		B04102		B05001		B05002		B06001	
		620684 REG		620685 REG		620686 REG		620687 REG		628684 REA	
		6/22/94		06/22/94DUPE		6/22/94		6/22/94		7/22/94	
		Result	Val	Result	Val	Result	Val	Result	Val	Result	Val
Semi-volatile Organics	Units										
Acenaphthene	UG/KG	380	U	390	U	380	U	370	U	370	UJ
Acenaphthylene	UG/KG	380	U	390	U	380	U	370	U	370	UJ
Anthracene	UG/KG	380	UJ	58	J	380	U	370	U	370	UJ
Benzo(a)anthracene	UG/KG	380	UJ	160	J	120	J	370	U	370	UJ
Benzo(a)pyrene	UG/KG	380	UJ	170	J	160	J	370	U	80	J
Benzo(b)fluoranthene	UG/KG	380	UJ	200	J	290	J	370	U	140	J
Benzo(g,h,i)perylene	UG/KG	380	U	390	U	110	J	370	U	370	UJ
Benzo(k)fluoranthene	UG/KG	380	UJ	420	J	430		370	U	220	J
Benzoic Acid	UG/KG	1800	U	1900	U	1800	U	1800	U	1800	UJ
Benzyl Alcohol	UG/KG	380	U	390	U	380	U	370	U	370	UJ
2-Benzyl-4-Chlorophenol	UG/KG	380	U	390	U	380	U	370	U	370	UJ
bis(2-Chloroethoxy)methane	UG/KG	380	U	390	U	380	U	370	U	370	UJ
bis(2-Chloroethyl)ether	UG/KG	380	U	390	U	380	U	370	U	370	UJ
bis(2-Ethylhexyl)phthalate	UG/KG	380	U	390	U	380	U	370	U	49	J
4-Bromophenyl-phenylether	UG/KG	380	U	390	U	380	U	370	U	370	UJ
Butylbenzylphthalate	UG/KG	380	U	390	U	380	U	370	U	370	UJ
Carbazole	UG/KG	380	U	390	U	380	U	370	U	370	UJ
4-Chloro-3-methylphenol	UG/KG	380	U	390	U	380	U	370	U	370	UJ
4-Chloroaniline	UG/KG	380	U	390	U	380	U	370	U	370	UJ
2-Chloronaphthalene	UG/KG	380	U	390	U	380	U	370	U	370	UJ
2-Chlorophenol	UG/KG	380	U	390	U	380	U	370	U	370	UJ
4-Chlorophenyl-phenylether	UG/KG	380	U	390	U	380	U	370	U	370	UJ
Chrysene	UG/KG	380	UJ	180	J	160	J	370	U	48	J
Di-n-butylphthalate	UG/KG	380	U	390	U	380	U	370	U	370	UJ
Di-n-octylphthalate	UG/KG	380	U	390	U	380	U	370	U	370	UJ
Dibenzo(a,h)anthracene	UG/KG	380	U	390	U	380	U	370	U	370	UJ
Dibenzofuran	UG/KG	380	U	390	U	380	U	370	U	370	UJ
1,2-Dichlorobenzene	UG/KG	380	U	390	U	380	U	370	U	370	UJ
1,3-Dichlorobenzene	UG/KG	380	U	390	U	380	U	370	U	370	UJ
1,4-Dichlorobenzene	UG/KG	380	U	390	U	380	U	370	U	370	UJ
3,3'-Dichlorobenzidine	UG/KG	750	U	780	U	750	U	750	U	740	UJ
2,4-Dichlorophenol	UG/KG	380	U	390	U	380	U	370	U	370	UJ
Diethylphthalate	UG/KG	380	U	390	U	380	U	370	U	370	UJ
2,4-Dimethylphenol	UG/KG	380	U	390	U	380	U	370	U	370	UJ
Dimethylphthalate	UG/KG	380	U	390	U	380	U	370	U	370	UJ

APPENDIX F.2 TABLE OF ALL VALIDATED ANALYTICAL DATA FOR SOIL
OPERABLE UNIT 5, AOC 7

4,6-Dinitro-2-methylphenol	UG/KG	1800	U	1900	U	1800	U	1800	U	1800	UJ
2,4-Dinitrophenol	UG/KG	1800	U	1900	U	1800	U	1800	U	1800	UJ
2,4-Dinitrotoluene	UG/KG	380	U	390	U	380	U	370	U	370	UJ
2,6-Dinitrotoluene	UG/KG	380	U	390	U	380	U	370	U	370	UJ
Fluoranthene	UG/KG	380	UJ	360	J	250	J	370	U	370	UJ
Fluorene	UG/KG	380	U	390	U	380	U	370	U	370	UJ
Hexachlorobenzene	UG/KG	380	U	390	U	380	U	370	U	370	UJ
Hexachlorobutadiene	UG/KG	380	U	390	U	380	U	370	U	370	UJ
Hexachlorocyclopentadiene	UG/KG	380	U	390	U	380	U	370	U	370	UJ
Hexachloroethane	UG/KG	380	U	390	U	380	U	370	U	370	UJ
Indeno(1,2,3-c,d)pyrene	UG/KG	380	U	390	U	97	J	370	U	370	UJ
Isophorone	UG/KG	380	U	390	U	380	U	370	U	370	UJ
2-Methylnaphthalene	UG/KG	380	U	390	U	380	U	370	U	64	J
2-Methylphenol	UG/KG	380	U	390	U	380	U	370	U	370	UJ
4-Methylphenol	UG/KG	380	U	390	U	380	U	370	U	370	UJ
N-Nitroso-di-n-propylamine	UG/KG	380	U	390	U	380	U	370	U	370	UJ
N-Nitrosodiphenylamine	UG/KG	380	U	390	U	380	U	370	U	370	UJ
Naphthalene	UG/KG	380	U	390	U	380	U	370	U	370	UJ
2-Nitroaniline	UG/KG	1800	U	1900	U	1800	U	1800	U	1800	UJ
3-Nitroaniline	UG/KG	1800	U	1900	U	1800	U	1800	U	1800	UJ
4-Nitroaniline	UG/KG	1800	U	1900	U	1800	U	1800	U	1800	UJ
Nitrobenzene	UG/KG	380	U	390	U	380	U	370	U	370	UJ
2-Nitrophenol	UG/KG	380	U	390	U	380	U	370	U	370	UJ
4-Nitrophenol	UG/KG	1800	U	1900	U	1800	U	1800	U	1800	UJ
2,2'-oxybis(1-Chloropropane)	UG/KG	380	U	390	U	380	U	370	U	370	UJ
Pentachlorophenol	UG/KG	1800	U	1900	U	1800	U	1800	U	1800	UJ
Phenanthrene	UG/KG	380	UJ	260	J	150	J	370	U	42	J
Phenol	UG/KG	380	U	390	U	380	U	370	U	370	UJ
Pyrene	UG/KG	380	UJ	360	J	240	J	370	U	39	J
1,2,4-Trichlorobenzene	UG/KG	380	U	390	U	380	U	370	U	370	UJ
2,4,5-Trichlorophenol	UG/KG	1800	U	1900	U	1800	U	1800	U	1800	UJ
2,4,6-Trichlorophenol	UG/KG	380	U	390	U	380	U	370	U	370	UJ
Tentatively Identified Compounds		1		6		15		9		21	

APPENDIX F.2 TABLE OF ALL VALIDATED ANALYTICAL DATA FOR SOIL
OPERABLE UNIT 5, AOC 7

MOUND OPERATIONAL AREA		B06001		B06002		B06003		B07001		B07002	
		628684 REG		628719 REG		628731 REG		621705 REG		621710 REG	
		7/22/94		7/22/94		7/22/94		6/28/94		6/28/94	
		Result	Val	Result	Val	Result	Val	Result	Val	Result	Val
Semi-volatile Organics	Units										
Acenaphthene	UG/KG	380	U	380	U	370	U	120	J	400	U
Acenaphthylene	UG/KG	380	U	380	U	370	U	95	J	400	U
Anthracene	UG/KG	380	U	380	U	370	U	170	J	43	J
Benzo(a)anthracene	UG/KG	380	U	380	U	370	U	540		140	J
Benzo(a)pyrene	UG/KG	380	U	380	U	370	U	810		170	J
Benzo(b)fluoranthene	UG/KG	33	J	380	U	370	U	1400	J	270	J
Benzo(g,h,i)perylene	UG/KG	380	U	380	U	370	U	380	U	400	U
Benzo(k)fluoranthene	UG/KG	56	J	380	U	370	U	3000	J	540	J
Benzoic Acid	UG/KG	1800	R	1900	U	1800	U	60	J	2000	U
Benzyl Alcohol	UG/KG	380	R	380	U	370	U	380	U	400	U
2-Benzyl-4-Chlorophenol	UG/KG	380	U	380	U	370	U	380	U	400	U
bis(2-Chloroethoxy)methane	UG/KG	380	U	380	U	370	U	380	U	400	U
bis(2-Chloroethyl)ether	UG/KG	380	U	380	U	370	U	380	U	400	U
bis(2-Ethylhexyl)phthalate	UG/KG	380	U	380	U	370	U	380	U	400	U
4-Bromophenyl-phenylether	UG/KG	380	U	380	U	370	U	380	U	400	U
Butylbenzylphthalate	UG/KG	380	U	380	U	370	U	380	U	400	U
Carbazole	UG/KG	380	U	380	U	370	U	81	J	400	U
4-Chloro-3-methylphenol	UG/KG	380	R	380	U	370	U	380	U	400	U
4-Chloroaniline	UG/KG	380	UJ	380	UJ	370	UJ	380	R	400	R
2-Chloronaphthalene	UG/KG	380	U	380	U	370	U	380	U	400	U
2-Chlorophenol	UG/KG	380	R	380	U	370	U	380	U	400	U
4-Chlorophenyl-phenylether	UG/KG	380	U	380	U	370	U	380	U	400	U
Chrysene	UG/KG	48	J	380	U	370	U	590		140	J
Di-n-butylphthalate	UG/KG	380	U	43	J	370	U	380	U	400	U
Di-n-octylphthalate	UG/KG	380	U	380	U	370	U	380	U	400	U
Dibenzo(a,h)anthracene	UG/KG	380	U	380	U	370	U	380	U	400	U
Dibenzofuran	UG/KG	380	U	380	U	370	U	45	J	400	U
1,2-Dichlorobenzene	UG/KG	380	U	380	U	370	U	380	U	400	U
1,3-Dichlorobenzene	UG/KG	380	U	380	U	370	U	380	U	400	U
1,4-Dichlorobenzene	UG/KG	380	U	380	U	370	U	380	U	400	U
3,3'-Dichlorobenzidine	UG/KG	750	U	760	U	740	U	380	UJ	400	UJ
2,4-Dichlorophenol	UG/KG	380	R	380	U	370	U	380	U	400	U
Diethylphthalate	UG/KG	380	U	380	U	370	U	380	U	400	U
2,4-Dimethylphenol	UG/KG	380	R	380	U	370	U	380	U	400	U
Dimethylphthalate	UG/KG	380	U	380	U	370	U	380	U	400	U

APPENDIX F.2 TABLE OF ALL VALIDATED ANALYTICAL DATA FOR SOIL
OPERABLE UNIT 5, AOC 7

4,6-Dinitro-2-methylphenol	UG/KG	1800	R	1900	U	1800	U	960	U	990	U
2,4-Dinitrophenol	UG/KG	1800	R	1900	U	1800	U	960	U	990	U
2,4-Dinitrotoluene	UG/KG	380	U	380	U	370	U	380	U	400	U
2,6-Dinitrotoluene	UG/KG	380	U	380	U	370	U	380	U	400	U
Fluoranthene	UG/KG	380	U	380	U	370	U	1300		260	J
Fluorene	UG/KG	380	U	380	U	370	U	84	J	400	U
Hexachlorobenzene	UG/KG	380	U	380	U	370	U	380	U	400	U
Hexachlorobutadiene	UG/KG	380	U	380	U	370	U	380	U	400	U
Hexachlorocyclopentadiene	UG/KG	380	U	380	U	370	U	380	U	400	U
Hexachloroethane	UG/KG	380	U	380	U	370	U	380	U	400	U
Indeno(1,2,3-c,d)pyrene	UG/KG	380	U	380	U	370	U	230	J	80	J
Isophorone	UG/KG	380	U	380	U	370	U	380	U	400	U
2-Methylnaphthalene	UG/KG	380	U	380	U	370	U	380	U	400	U
2-Methylphenol	UG/KG	380	R	380	U	370	U	380	U	400	U
4-Methylphenol	UG/KG	380	R	380	U	370	U	380	U	400	U
N-Nitroso-di-n-propylamine	UG/KG	380	U	380	U	370	U	380	U	400	U
N-Nitrosodiphenylamine	UG/KG	380	UJ	380	UJ	370	UJ	380	U	400	U
Naphthalene	UG/KG	380	U	380	U	64	J	380	U	400	U
2-Nitroaniline	UG/KG	1800	U	1900	U	1800	U	960	U	990	U
3-Nitroaniline	UG/KG	1800	U	1900	U	1800	U	960	U	990	U
4-Nitroaniline	UG/KG	1800	U	1900	U	1800	U	960	U	990	U
Nitrobenzene	UG/KG	380	U	380	U	370	U	380	U	400	U
2-Nitrophenol	UG/KG	380	R	380	U	370	U	380	U	400	U
4-Nitrophenol	UG/KG	1800	R	1900	U	1800	U	960	U	990	U
2,2'-oxybis(1-Chloropropane)	UG/KG	380	U	380	U	370	U	380	U	400	U
Pentachlorophenol	UG/KG	1800	R	1900	U	1800	U	960	U	990	U
Phenanthrene	UG/KG	39	J	380	U	370	U	660		170	J
Phenol	UG/KG	380	R	380	U	370	U	380	U	42	J
Pyrene	UG/KG	49	J	380	U	370	U	1200		270	J
1,2,4-Trichlorobenzene	UG/KG	380	U	380	U	370	U	380	U	400	U
2,4,5-Trichlorophenol	UG/KG	1800	R	1900	U	1800	U	960	U	990	U
2,4,6-Trichlorophenol	UG/KG	380	R	380	U	370	U	380	U	400	U
Tentatively Identified Compounds		22		12		14		29		22	

APPENDIX F.2 TABLE OF ALL VALIDATED ANALYTICAL DATA FOR SOIL
OPERABLE UNIT 5, AOC 7

MOUND OPERATIONAL AREA											
		B07003		B07004		B07101		B08001		B08002	
		622319 REG		622331 REG		621711 REG		625889 REG		625896 REG	
		6/28/94		6/29/94		06/28/94DUPE		7/14/94		7/14/94	
		Result	Val	Result	Val	Result	Val	Result	Val	Result	Val
Semi-volatile Organics	Units										
Acenaphthene	UG/KG	78	J	390	U	130	J	360	U	370	U
Acenaphthylene	UG/KG	390	U	390	U	48	J	360	U	370	U
Anthracene	UG/KG	110	J	390	U	150	J	360	U	370	U
Benzo(a)anthracene	UG/KG	200	J	390	U	480		360	U	370	U
Benzo(a)pyrene	UG/KG	200	J	390	U	540		360	U	370	U
Benzo(b)fluoranthene	UG/KG	250	J	55	J	1000	J	360	U	370	U
Benzo(g,h,i)perylene	UG/KG	390	U	390	U	140	J	360	U	370	U
Benzo(k)fluoranthene	UG/KG	290	J	110	J	2100	J	360	U	370	U
Benzoic Acid	UG/KG	1900	U	1900	U	97	J	1700	U	1800	U
Benzyl Alcohol	UG/KG	390	U	390	U	380	U	360	U	370	U
2-Benzyl-4-Chlorophenol	UG/KG	390	U	390	U	380	U	360	U	370	U
bis(2-Chloroethoxy)methane	UG/KG	390	U	390	U	380	U	360	U	370	U
bis(2-Chloroethyl)ether	UG/KG	390	U	390	U	380	U	360	U	370	U
bis(2-Ethylhexyl)phthalate	UG/KG	110	J	390	U	380	U	43	J	43	J
4-Bromophenyl-phenylether	UG/KG	390	U	390	U	380	U	360	U	370	U
Butylbenzylphthalate	UG/KG	390	U	390	U	380	U	360	U	370	U
Carbazole	UG/KG	60	J	390	U	98	J	360	U	370	U
4-Chloro-3-methylphenol	UG/KG	390	U	390	U	380	U	360	U	370	U
4-Chloroaniline	UG/KG	390	R	390	U	380	R	360	UJ	370	UJ
2-Chloronaphthalene	UG/KG	390	U	390	U	380	U	360	U	370	U
2-Chlorophenol	UG/KG	390	U	390	U	380	U	360	U	370	U
4-Chlorophenyl-phenylether	UG/KG	390	U	390	U	380	U	360	U	370	U
Chrysene	UG/KG	180	J	41	J	510		42	J	370	U
Di-n-butylphthalate	UG/KG	390	U	390	U	380	U	360	U	370	U
Di-n-octylphthalate	UG/KG	390	U	390	U	380	U	360	U	370	U
Dibenzo(a,h)anthracene	UG/KG	390	U	390	U	380	U	360	U	370	U
Dibenzofuran	UG/KG	52	J	390	U	64	J	360	U	370	U
1,2-Dichlorobenzene	UG/KG	390	U	390	U	380	U	360	U	370	U
1,3-Dichlorobenzene	UG/KG	390	U	390	U	380	U	360	U	370	U
1,4-Dichlorobenzene	UG/KG	390	U	390	U	380	U	360	U	370	U
3,3'-Dichlorobenzidine	UG/KG	390	UJ	780	U	380	UJ	710	U	740	U
2,4-Dichlorophenol	UG/KG	390	U	390	U	380	U	360	U	370	U
Diethylphthalate	UG/KG	390	U	390	U	380	U	360	U	370	U
2,4-Dimethylphenol	UG/KG	390	U	390	U	380	U	360	U	370	U
Dimethylphthalate	UG/KG	390	U	390	U	380	U	360	U	370	U

APPENDIX F.2 TABLE OF ALL VALIDATED ANALYTICAL DATA FOR SOIL
OPERABLE UNIT 5, AOC 7

4,6-Dinitro-2-methylphenol	UG/KG	970	U	1900	U	950	U	1700	U	1800	U
2,4-Dinitrophenol	UG/KG	970	U	1900	U	950	U	1700	U	1800	U
2,4-Dinitrotoluene	UG/KG	390	U	390	U	380	U	360	U	370	U
2,6-Dinitrotoluene	UG/KG	390	U	390	U	380	U	360	U	370	U
Fluoranthene	UG/KG	360	J	41	J	1200		40	J	370	U
Fluorene	UG/KG	86	J	390	U	120	J	360	U	370	U
Hexachlorobenzene	UG/KG	390	U	390	U	380	U	360	U	370	U
Hexachlorobutadiene	UG/KG	390	U	390	U	380	U	360	U	370	U
Hexachlorocyclopentadiene	UG/KG	390	U	390	U	380	U	360	U	370	U
Hexachloroethane	UG/KG	390	U	390	U	380	U	360	U	370	U
Indeno(1,2,3-c,d)pyrene	UG/KG	100	J	390	U	200	J	360	U	370	U
Isophorone	UG/KG	390	U	390	U	380	U	360	U	370	U
2-Methylnaphthalene	UG/KG	390	U	390	U	40	J	360	U	370	U
2-Methylphenol	UG/KG	390	U	390	U	380	U	360	U	370	U
4-Methylphenol	UG/KG	390	U	390	U	380	U	360	U	370	U
N-Nitroso-di-n-propylamine	UG/KG	390	U	390	U	380	U	360	U	370	U
N-Nitrosodiphenylamine	UG/KG	390	U	390	U	380	U	360	UJ	370	UJ
Naphthalene	UG/KG	390	U	390	U	43	J	360	U	370	U
2-Nitroaniline	UG/KG	970	U	1900	U	950	U	1700	U	1800	U
3-Nitroaniline	UG/KG	970	U	1900	U	950	U	1700	U	1800	U
4-Nitroaniline	UG/KG	970	U	1900	U	950	U	1700	U	1800	U
Nitrobenzene	UG/KG	390	U	390	U	380	U	360	U	370	U
2-Nitrophenol	UG/KG	390	U	390	U	380	U	360	U	370	U
4-Nitrophenol	UG/KG	970	U	1900	U	950	U	1700	U	1800	U
2,2'-oxybis(1-Chloropropane)	UG/KG	390	U	390	U	380	U	360	U	370	U
Pentachlorophenol	UG/KG	970	U	1900	U	950	U	1700	U	1800	U
Phenanthrene	UG/KG	390		390	U	770		57	J	370	U
Phenol	UG/KG	390	U	390	U	57	J	360	U	370	U
Pyrene	UG/KG	400		47	J	930		44	J	370	U
1,2,4-Trichlorobenzene	UG/KG	390	U	390	U	380	U	360	U	370	U
2,4,5-Trichlorophenol	UG/KG	970	U	1900	U	950	U	1700	U	1800	U
2,4,6-Trichlorophenol	UG/KG	390	U	390	U	380	U	360	U	370	U
Tentatively Identified Compounds		27		20		21		25		18	

APPENDIX F.2 TABLE OF ALL VALIDATED ANALYTICAL DATA FOR SOIL
OPERABLE UNIT 5, AOC 7

MOUND OPERATIONAL AREA											
		B08003		B09001		B09002		B09003		B09004	
		625897 REG		626875 REG		626877 REG		626882 REG		626889 REG	
		7/14/94		7/19/94		7/19/94		7/19/94		7/19/94	
		Result	Val	Result	Val	Result	Val	Result	Val	Result	Val
Semi-volatile Organics	Units										
Acenaphthene	UG/KG	390	U	630	J	120	J	410	U	380	U
Acenaphthylene	UG/KG	390	U	360		60	J	410	U	380	U
Anthracene	UG/KG	390	U	1100		250	J	410	U	380	U
Benzo(a)anthracene	UG/KG	390	U	2100		330	J	410	U	380	U
Benzo(a)pyrene	UG/KG	390	U	1500		310	J	410	U	380	U
Benzo(b)fluoranthene	UG/KG	390	U	2700		570	J	410	U	380	U
Benzo(g,h,i)perylene	UG/KG	390	U	1200		380	U	410	U	380	U
Benzo(k)fluoranthene	UG/KG	390	U	4800		960	J	410	U	380	U
Benzoic Acid	UG/KG	1900	U	48	J	1900	U	2000	U	1800	U
Benzyl Alcohol	UG/KG	390	U	360	U	380	U	410	U	380	U
2-Benzyl-4-Chlorophenol	UG/KG	390	U	360	U	380	U	410	U	380	U
bis(2-Chloroethoxy)methane	UG/KG	390	U	360	U	380	U	410	U	380	U
bis(2-Chloroethyl)ether	UG/KG	390	U	360	U	380	U	410	U	380	U
bis(2-Ethylhexyl)phthalate	UG/KG	110	J	43	J	45	J	410	U	65	J
4-Bromophenyl-phenylether	UG/KG	390	U	360	U	380	U	410	U	380	U
Butylbenzylphthalate	UG/KG	390	U	360	U	380	U	410	U	380	U
Carbazole	UG/KG	390	U	750		160	J	410	U	380	U
4-Chloro-3-methylphenol	UG/KG	390	U	360	U	380	U	410	U	380	U
4-Chloroaniline	UG/KG	390	U	360	UJ	380	UJ	410	UJ	380	UJ
2-Chloronaphthalene	UG/KG	390	U	360	U	380	U	410	U	380	U
2-Chlorophenol	UG/KG	390	U	360	U	380	U	410	U	380	U
4-Chlorophenyl-phenylether	UG/KG	390	U	360	U	380	U	410	U	380	U
Chrysene	UG/KG	390	U	1700		340	J	410	U	380	U
Di-n-butylphthalate	UG/KG	390	U	360	U	380	U	410	U	380	U
Di-n-octylphthalate	UG/KG	390	U	360	U	380	U	410	U	380	U
Dibenzo(a,h)anthracene	UG/KG	390	U	210	J	380	U	410	U	380	U
Dibenzofuran	UG/KG	390	U	990		220	J	410	U	380	U
1,2-Dichlorobenzene	UG/KG	390	U	360	U	380	U	410	U	380	U
1,3-Dichlorobenzene	UG/KG	390	U	360	U	380	U	410	U	380	U
1,4-Dichlorobenzene	UG/KG	390	U	360	U	380	U	410	U	380	U
3,3'-Dichlorobenzidine	UG/KG	770	U	730	U	770	U	820	U	750	U
2,4-Dichlorophenol	UG/KG	390	U	360	U	380	U	410	U	380	U
Diethylphthalate	UG/KG	390	U	360	U	380	U	410	U	380	U
2,4-Dimethylphenol	UG/KG	390	U	360	U	380	U	410	U	380	U
Dimethylphthalate	UG/KG	390	U	360	U	380	U	410	U	380	U

APPENDIX F.2 TABLE OF ALL VALIDATED ANALYTICAL DATA FOR SOIL
OPERABLE UNIT 5, AOC 7

4,6-Dinitro-2-methylphenol	UG/KG	1900	U	1800	U	1900	U	2000	U	1800	U
2,4-Dinitrophenol	UG/KG	1900	U	1800	U	1900	U	2000	U	1800	U
2,4-Dinitrotoluene	UG/KG	390	U	360	U	380	U	410	U	380	U
2,6-Dinitrotoluene	UG/KG	390	U	360	U	380	U	410	U	380	U
Fluoranthene	UG/KG	390	U	4100		910	J	410	U	380	U
Fluorene	UG/KG	390	U	1200		270	J	410	U	380	U
Hexachlorobenzene	UG/KG	390	U	360	U	380	U	410	U	380	U
Hexachlorobutadiene	UG/KG	390	U	360	U	380	U	410	U	380	U
Hexachlorocyclopentadiene	UG/KG	390	U	360	U	380	U	410	U	380	U
Hexachloroethane	UG/KG	390	U	360	U	380	U	410	U	380	U
Indeno(1,2,3-c,d)pyrene	UG/KG	390	U	1100		380	UJ	410	U	380	U
Isophorone	UG/KG	390	U	360	U	380	U	410	U	380	U
2-Methylnaphthalene	UG/KG	390	U	860		190	J	410	U	380	U
2-Methylphenol	UG/KG	390	U	360	U	380	U	410	U	380	U
4-Methylphenol	UG/KG	390	U	360	U	380	U	410	U	380	U
N-Nitroso-di-n-propylamine	UG/KG	390	U	360	U	380	U	410	U	380	U
N-Nitrosodiphenylamine	UG/KG	390	UJ	360	UJ	380	UJ	410	UJ	380	UJ
Naphthalene	UG/KG	390	UJ	1900		430	J	410	U	380	U
2-Nitroaniline	UG/KG	1900	U	1800	U	1900	U	2000	U	1800	U
3-Nitroaniline	UG/KG	1900	U	1800	U	1900	U	2000	U	1800	U
4-Nitroaniline	UG/KG	1900	U	1800	U	1900	U	2000	U	1800	U
Nitrobenzene	UG/KG	390	U	360	U	380	U	410	U	380	U
2-Nitrophenol	UG/KG	390	U	360	U	380	U	410	U	380	U
4-Nitrophenol	UG/KG	1900	U	1800	U	1900	U	2000	U	1800	U
2,2'-oxybis(1-Chloropropane)	UG/KG	390	U	360	U	380	U	410	U	380	U
Pentachlorophenol	UG/KG	1900	U	1800	U	1900	U	2000	U	1800	U
Phenanthrene	UG/KG	390	U	5400		1400	J	410	U	380	U
Phenol	UG/KG	390	U	40	J	380	U	410	U	380	U
Pyrene	UG/KG	390	U	3200	J	760	J	410	U	380	U
1,2,4-Trichlorobenzene	UG/KG	390	U	360	U	380	U	410	U	380	U
2,4,5-Trichlorophenol	UG/KG	1900	U	1800	U	1900	U	2000	U	1800	U
2,4,6-Trichlorophenol	UG/KG	390	U	360	U	380	U	410	U	380	U
Tentatively Identified Compounds		16		24		26		17		18	

APPENDIX F.2 TABLE OF ALL VALIDATED ANALYTICAL DATA FOR SOIL
OPERABLE UNIT 5, AOC 7

MOUND OPERATIONAL AREA											
		B09005		B09102		B10001		B10002		B10003	
		626896 REG		626898 REG		627624 REG		627620 REG		627621 REG	
		7/19/94		07/19/94DUPE		7/20/94		7/20/94		7/20/94	
		Result	Val	Result	Val	Result	Val	Result	Val	Result	Val
Semi-volatile Organics	Units										
Acenaphthene	UG/KG	380	U	55	J	380	U	370	U	380	U
Acenaphthylene	UG/KG	380	U	380	U	380	U	370	U	380	U
Anthracene	UG/KG	380	U	80	J	380	U	370	U	380	U
Benzo(a)anthracene	UG/KG	380	U	150	J	380	U	370	U	380	U
Benzo(a)pyrene	UG/KG	380	U	120	J	380	U	370	U	380	U
Benzo(b)fluoranthene	UG/KG	380	U	230	J	380	U	370	U	380	U
Benzo(g,h,i)perylene	UG/KG	380	U	380	U	380	U	370	U	380	U
Benzo(k)fluoranthene	UG/KG	380	U	370	J	380	U	370	U	380	U
Benzoic Acid	UG/KG	1800	U	1900	U	1800	U	1800	U	1800	U
Benzyl Alcohol	UG/KG	380	U	380	U	380	U	370	U	380	U
2-Benzyl-4-Chlorophenol	UG/KG	380	U	380	U	380	U	370	U	380	U
bis(2-Chloroethoxy)methane	UG/KG	380	U	380	U	380	U	370	U	380	U
bis(2-Chloroethyl)ether	UG/KG	380	U	380	U	380	U	370	U	380	U
bis(2-Ethylhexyl)phthalate	UG/KG	49	J	52	J	380	U	370	U	45	J
4-Bromophenyl-phenylether	UG/KG	380	U	380	U	380	U	370	U	380	U
Butylbenzylphthalate	UG/KG	380	U	380	U	380	U	370	U	380	U
Carbazole	UG/KG	380	U	57	J	380	U	370	U	380	U
4-Chloro-3-methylphenol	UG/KG	380	U	380	U	380	U	370	U	380	U
4-Chloroaniline	UG/KG	380	UJ	380	UJ	380	UJ	370	UJ	380	UJ
2-Chloronaphthalene	UG/KG	380	U	380	U	380	U	370	U	380	U
2-Chlorophenol	UG/KG	380	U	380	U	380	U	370	U	380	U
4-Chlorophenyl-phenylether	UG/KG	380	U	380	U	380	U	370	U	380	U
Chrysene	UG/KG	380	U	140	J	380	U	370	U	380	U
Di-n-butylphthalate	UG/KG	380	U	380	U	380	U	370	U	380	U
Di-n-octylphthalate	UG/KG	380	U	380	U	380	U	370	U	380	U
Dibenzo(a,h)anthracene	UG/KG	380	U	380	U	380	U	370	U	380	U
Dibenzofuran	UG/KG	380	U	51	J	380	U	370	U	380	U
1,2-Dichlorobenzene	UG/KG	380	U	380	U	380	U	370	U	380	U
1,3-Dichlorobenzene	UG/KG	380	U	380	U	380	U	370	U	380	U
1,4-Dichlorobenzene	UG/KG	380	U	380	U	380	U	370	U	380	U
3,3'-Dichlorobenzidine	UG/KG	760	U	770	U	750	U	750	U	750	U
2,4-Dichlorophenol	UG/KG	380	U	380	U	380	U	370	U	380	U
Diethylphthalate	UG/KG	380	U	380	U	380	U	370	U	380	U
2,4-Dimethylphenol	UG/KG	380	U	380	U	380	U	370	U	380	U
Dimethylphthalate	UG/KG	380	U	380	U	380	U	370	U	380	U

APPENDIX F.2 TABLE OF ALL VALIDATED ANALYTICAL DATA FOR SOIL
OPERABLE UNIT 5, AOC 7

4,6-Dinitro-2-methylphenol	UG/KG	1800	U	1900	U	1800	U	1800	U	1800	U
2,4-Dinitrophenol	UG/KG	1800	U	1900	U	1800	U	1800	U	1800	U
2,4-Dinitrotoluene	UG/KG	380	U	380	U	380	U	370	U	380	U
2,6-Dinitrotoluene	UG/KG	380	U	380	U	380	U	370	U	380	U
Fluoranthene	UG/KG	380	U	370	J	380	U	370	U	380	U
Fluorene	UG/KG	380	U	66	J	380	U	370	U	380	U
Hexachlorobenzene	UG/KG	380	U	380	U	380	U	370	U	380	U
Hexachlorobutadiene	UG/KG	380	U	380	U	380	U	370	U	380	U
Hexachlorocyclopentadiene	UG/KG	380	U	380	U	380	U	370	U	380	U
Hexachloroethane	UG/KG	380	U	380	U	380	U	370	U	380	U
Indeno(1,2,3-c,d)pyrene	UG/KG	380	U	56	J	380	U	370	U	380	U
Isophorone	UG/KG	380	U	380	U	380	U	370	U	380	U
2-Methylnaphthalene	UG/KG	380	U	380	U	380	U	370	U	380	U
2-Methylphenol	UG/KG	380	U	380	U	380	U	370	U	380	U
4-Methylphenol	UG/KG	380	U	380	U	380	U	370	U	380	U
N-Nitroso-di-n-propylamine	UG/KG	380	U	380	U	380	U	370	U	380	U
N-Nitrosodiphenylamine	UG/KG	380	UJ	380	UJ	380	UJ	370	UJ	380	UJ
Naphthalene	UG/KG	380	U	94	J	380	U	370	U	380	U
2-Nitroaniline	UG/KG	1800	U	1900	U	1800	U	1800	U	1800	U
3-Nitroaniline	UG/KG	1800	U	1900	U	1800	U	1800	U	1800	U
4-Nitroaniline	UG/KG	1800	U	1900	U	1800	U	1800	U	1800	U
Nitrobenzene	UG/KG	380	U	380	U	380	U	370	U	380	U
2-Nitrophenol	UG/KG	380	U	380	U	380	U	370	U	380	U
4-Nitrophenol	UG/KG	1800	U	1900	U	1800	U	1800	U	1800	U
2,2'-oxybis(1-Chloropropane)	UG/KG	380	U	380	U	380	U	370	U	380	U
Pentachlorophenol	UG/KG	1800	U	1900	U	1800	U	1800	U	1800	U
Phenanthrene	UG/KG	380	U	420	J	380	U	370	U	380	U
Phenol	UG/KG	380	U	380	U	380	U	370	U	380	U
Pyrene	UG/KG	380	U	310	J	380	U	370	U	380	U
1,2,4-Trichlorobenzene	UG/KG	380	U	380	U	380	U	370	U	380	U
2,4,5-Trichlorophenol	UG/KG	1800	U	1900	U	1800	U	1800	U	1800	U
2,4,6-Trichlorophenol	UG/KG	380	U	380	U	380	U	370	U	380	U
Tentatively Identified Compounds		27		20		25		10		17	

APPENDIX F.2 TABLE OF ALL VALIDATED ANALYTICAL DATA FOR SOIL
OPERABLE UNIT 5, AOC 7

MOUND OPERATIONAL AREA											
		B11001		B11001		B11002		B11003		B11004	
		628157 REA		628157 REG		628173 REG		628181 REG		628189 REG	
		7/21/94		7/21/94		7/21/94		7/21/94		7/21/94	
		Result	Val	Result	Val	Result	Val	Result	Val	Result	Val
Semi-volatile Organics	Units										
Acenaphthene	UG/KG	210	J	220	J	390	U	380	U	400	U
Acenaphthylene	UG/KG	380	U	380	U	390	U	380	U	400	U
Anthracene	UG/KG	250	J	280	J	390	U	380	U	400	U
Benzo(a)anthracene	UG/KG	640		700		390	UJ	380	U	400	U
Benzo(a)pyrene	UG/KG	580	J	590	J	390	UJ	380	U	400	U
Benzo(b)fluoranthene	UG/KG	1300	J	1400	J	98	J	380	U	400	U
Benzo(g,h,i)perylene	UG/KG	380	J	360	J	390	UJ	380	U	400	U
Benzo(k)fluoranthene	UG/KG	2000	J	2200	J	160	J	380	U	400	U
Benzoic Acid	UG/KG	1800	U	1800	U	1900	U	1800	UJ	2000	U
Benzyl Alcohol	UG/KG	380	U	380	U	390	U	380	UJ	400	U
2-Benzyl-4-Chlorophenol	UG/KG	380	U	380	U	390	U	380	UJ	400	U
bis(2-Chloroethoxy)methane	UG/KG	380	U	380	U	390	U	380	U	400	U
bis(2-Chloroethyl)ether	UG/KG	380	U	380	U	390	U	380	U	400	U
bis(2-Ethylhexyl)phthalate	UG/KG	100	J	87	J	390	UJ	160	J	65	J
4-Bromophenyl-phenylether	UG/KG	380	U	380	U	390	U	380	U	400	U
Butylbenzylphthalate	UG/KG	380	U	380	U	390	U	380	U	400	U
Carbazole	UG/KG	140	J	140	J	390	U	380	U	400	U
4-Chloro-3-methylphenol	UG/KG	380	U	380	U	390	U	380	UJ	400	U
4-Chloroaniline	UG/KG	380	UJ	380	UJ	390	UJ	380	UJ	400	UJ
2-Chloronaphthalene	UG/KG	380	U	380	U	390	U	380	U	400	U
2-Chlorophenol	UG/KG	380	U	380	U	390	U	380	UJ	400	U
4-Chlorophenyl-phenylether	UG/KG	380	U	380	U	390	U	380	U	400	U
Chrysene	UG/KG	760		830		390	UJ	380	U	400	U
Di-n-butylphthalate	UG/KG	380	U	380	U	390	U	380	U	400	U
Di-n-octylphthalate	UG/KG	380	UJ	380	UJ	390	U	380	U	400	U
Dibenzo(a,h)anthracene	UG/KG	110	J	110	J	390	U	380	U	400	U
Dibenzofuran	UG/KG	110	J	120	J	390	U	380	U	400	U
1,2-Dichlorobenzene	UG/KG	380	U	380	U	390	U	380	U	400	U
1,3-Dichlorobenzene	UG/KG	380	U	380	U	390	U	380	U	400	U
1,4-Dichlorobenzene	UG/KG	380	U	380	U	390	U	380	U	400	U
3,3'-Dichlorobenzidine	UG/KG	760	U	760	U	770	U	760	U	810	U
2,4-Dichlorophenol	UG/KG	380	U	380	U	390	U	380	UJ	400	U
Diethylphthalate	UG/KG	380	U	380	U	390	U	380	U	400	U
2,4-Dimethylphenol	UG/KG	380	U	380	U	390	U	380	UJ	400	U
Dimethylphthalate	UG/KG	380	U	380	U	390	U	380	U	400	U

APPENDIX F.2 TABLE OF ALL VALIDATED ANALYTICAL DATA FOR SOIL
OPERABLE UNIT 5, AOC 7

4,6-Dinitro-2-methylphenol	UG/KG	1800	U	1800	U	1900	U	1800	UJ	2000	U
2,4-Dinitrophenol	UG/KG	1800	U	1800	U	1900	U	1800	UJ	2000	U
2,4-Dinitrotoluene	UG/KG	380	U	380	U	390	U	380	U	400	U
2,6-Dinitrotoluene	UG/KG	380	U	380	U	390	U	380	U	400	U
Fluoranthene	UG/KG	1600		2000		56	J	380	U	400	U
Fluorene	UG/KG	210	J	220	J	390	U	380	U	400	U
Hexachlorobenzene	UG/KG	380	U	380	U	390	U	380	U	400	U
Hexachlorobutadiene	UG/KG	380	U	380	U	390	U	380	U	400	U
Hexachlorocyclopentadiene	UG/KG	380	U	380	U	390	U	380	U	400	U
Hexachloroethane	UG/KG	380	U	380	U	390	U	380	U	400	U
Indeno(1,2,3-c,d)pyrene	UG/KG	350	J	360	J	390	UJ	380	U	400	U
Isophorone	UG/KG	380	U	380	U	390	U	380	U	400	U
2-Methylnaphthalene	UG/KG	39	J	43	J	390	U	380	U	400	U
2-Methylphenol	UG/KG	380	U	380	U	390	U	380	UJ	400	U
4-Methylphenol	UG/KG	380	U	380	U	390	U	380	UJ	400	U
N-Nitroso-di-n-propylamine	UG/KG	380	U	380	U	390	U	380	U	400	U
N-Nitrosodiphenylamine	UG/KG	380	UJ	380	UJ	390	UJ	380	UJ	400	UJ
Naphthalene	UG/KG	70	U	70	U	390	U	380	U	400	U
2-Nitroaniline	UG/KG	1800	U	1800	U	1900	U	1800	U	2000	U
3-Nitroaniline	UG/KG	1800	U	1800	U	1900	U	1800	U	2000	U
4-Nitroaniline	UG/KG	1800	U	1800	U	1900	U	1800	U	2000	U
Nitrobenzene	UG/KG	380	U	380	U	390	U	380	U	400	U
2-Nitrophenol	UG/KG	380	U	380	U	390	U	380	UJ	400	U
4-Nitrophenol	UG/KG	1800	U	1800	U	1900	U	1800	UJ	2000	U
2,2'-oxybis(1-Chloropropane)	UG/KG	380	U	380	U	390	U	380	U	400	U
Pentachlorophenol	UG/KG	1800	U	1800	U	1900	U	1800	UJ	2000	U
Phenanthrene	UG/KG	1300		1500		44	J	380	U	400	U
Phenol	UG/KG	380	U	380	U	390	U	380	UJ	400	U
Pyrene	UG/KG	1600		1600		59	J	380	U	400	U
1,2,4-Trichlorobenzene	UG/KG	380	U	380	U	390	U	380	U	400	U
2,4,5-Trichlorophenol	UG/KG	1800	U	1800	U	1900	U	1800	UJ	2000	U
2,4,6-Trichlorophenol	UG/KG	380	U	380	U	390	U	380	UJ	400	U
Tentatively Identified Compounds		19		24		21		26		27	

APPENDIX F.2 TABLE OF ALL VALIDATED ANALYTICAL DATA FOR SOIL
OPERABLE UNIT 5, AOC 7

MOUND OPERATIONAL AREA											
		B11102		B12001		B12002		B12003		B13001	
		628165 REG		627622 REG		627625 REG		627623 REG		623053 REG	
		07/21/94DUPE		7/20/94		7/20/94		7/20/94		7/5/94	
		Result	Val	Result	Val	Result	Val	Result	Val	Result	Val
Semi-volatile Organics	Units										
Acenaphthene	UG/KG	380	U	350	U	400	U	380	U	110	J
Acenaphthylene	UG/KG	380	U	350	U	400	U	380	U	360	U
Anthracene	UG/KG	380	U	350	U	400	U	380	U	210	J
Benzo(a)anthracene	UG/KG	140	J	38	J	400	U	380	U	600	
Benzo(a)pyrene	UG/KG	150	J	350	U	400	U	380	U	580	
Benzo(b)fluoranthene	UG/KG	420	J	63	J	400	U	380	U	980	J
Benzo(g,h,i)perylene	UG/KG	92	J	350	U	400	U	380	U	150	J
Benzo(k)fluoranthene	UG/KG	680	J	100	J	400	U	380	U	1500	J
Benzoic Acid	UG/KG	1800	U	1700	U	40	J	1800	U	1700	UJ
Benzyl Alcohol	UG/KG	380	U	350	U	400	U	380	U	360	U
2-Benzyl-4-Chlorophenol	UG/KG	380	U	350	U	400	U	380	U	360	U
bis(2-Chloroethoxy)methane	UG/KG	380	U	350	U	400	U	380	U	360	U
bis(2-Chloroethyl)ether	UG/KG	380	U	350	U	400	U	380	U	360	U
bis(2-Ethylhexyl)phthalate	UG/KG	63	J	39	J	400	U	63	J	360	U
4-Bromophenyl-phenylether	UG/KG	380	U	350	U	400	U	380	U	360	U
Butylbenzylphthalate	UG/KG	380	U	350	U	400	U	380	U	360	U
Carbazole	UG/KG	380	U	350	U	400	U	380	U	120	J
4-Chloro-3-methylphenol	UG/KG	380	U	350	U	400	U	380	U	360	U
4-Chloroaniline	UG/KG	380	UJ	350	UJ	400	UJ	380	UJ	360	R
2-Chloronaphthalene	UG/KG	380	U	350	U	400	U	380	U	360	U
2-Chlorophenol	UG/KG	380	U	350	U	400	U	380	U	360	U
4-Chlorophenyl-phenylether	UG/KG	380	U	350	U	400	U	380	U	360	U
Chrysene	UG/KG	180	J	49	J	400	U	380	U	630	
Di-n-butylphthalate	UG/KG	380	U	350	U	400	U	380	U	360	U
Di-n-octylphthalate	UG/KG	380	U	350	U	400	U	380	U	360	U
Dibenzo(a,h)anthracene	UG/KG	380	U	350	U	400	U	380	U	360	U
Dibenzofuran	UG/KG	380	U	350	U	400	U	380	U	63	J
1,2-Dichlorobenzene	UG/KG	380	U	350	U	400	U	380	U	360	U
1,3-Dichlorobenzene	UG/KG	380	U	350	U	400	U	380	U	360	U
1,4-Dichlorobenzene	UG/KG	380	U	350	U	400	U	380	U	360	U
3,3'-Dichlorobenzidine	UG/KG	760	U	690	U	790	U	760	U	720	UJ
2,4-Dichlorophenol	UG/KG	380	U	350	U	400	U	380	U	360	U
Diethylphthalate	UG/KG	380	U	350	U	400	U	380	U	360	U
2,4-Dimethylphenol	UG/KG	380	U	350	U	400	U	380	U	360	U
Dimethylphthalate	UG/KG	380	U	350	U	400	U	380	U	360	U

APPENDIX F.2 TABLE OF ALL VALIDATED ANALYTICAL DATA FOR SOIL
OPERABLE UNIT 5, AOC 7

4,6-Dinitro-2-methylphenol	UG/KG	1800	U	1700	U	1900	U	1800	U	1700	U	
2,4-Dinitrophenol	UG/KG	1800	U	1700	U	1900	U	1800	U	1700	U	
2,4-Dinitrotoluene	UG/KG	380	U	350	U	400	U	380	U	360	U	
2,6-Dinitrotoluene	UG/KG	380	U	350	U	400	U	380	U	360	U	
Fluoranthene	UG/KG	280	J	49	J	400	U	380	U	1400		
Fluorene	UG/KG	380	U	350	U	400	U	380	U	96	J	
Hexachlorobenzene	UG/KG	380	U	350	U	400	U	380	U	360	U	
Hexachlorobutadiene	UG/KG	380	U	350	U	400	U	380	U	360	U	
Hexachlorocyclopentadiene	UG/KG	380	U	350	U	400	U	380	U	360	U	
Hexachloroethane	UG/KG	380	U	350	U	400	U	380	U	360	U	
Indeno(1,2,3-c,d)pyrene	UG/KG	130	J	350	U	400	U	380	U	210	J	
Isophorone	UG/KG	380	U	350	U	400	U	380	U	360	U	U
2-Methylnaphthalene	UG/KG	380	U	350	U	400	U	380	U	120	J	
2-Methylphenol	UG/KG	380	U	350	U	400	U	380	U	360	U	
4-Methylphenol	UG/KG	380	U	350	U	400	U	380	U	360	U	
N-Nitroso-di-n-propylamine	UG/KG	380	U	350	U	400	U	380	U	360	U	
N-Nitrosodiphenylamine	UG/KG	380	UJ	350	UJ	400	UJ	380	UJ	360	U	
Naphthalene	UG/KG	380	U	350	U	400	U	380	U	360	U	
2-Nitroaniline	UG/KG	1800	U	1700	U	1900	U	1800	U	1700	U	
3-Nitroaniline	UG/KG	1800	U	1700	U	1900	U	1800	U	1700	U	
4-Nitroaniline	UG/KG	1800	U	1700	U	1900	U	1800	U	1700	UJ	
Nitrobenzene	UG/KG	380	U	350	U	400	U	380	U	360	UJ	
2-Nitrophenol	UG/KG	380	U	350	U	400	U	380	U	360	U	
4-Nitrophenol	UG/KG	1800	U	1700	U	1900	U	1800	U	1700	U	
2,2'-oxybis(1-Chloropropane)	UG/KG	380	U	350	U	400	U	380	U	360	U	
Pentachlorophenol	UG/KG	1800	U	1700	U	1900	U	1800	U	1700	U	
Phenanthrene	UG/KG	200	J	43	J	400	U	380	U	1100		
Phenol	UG/KG	380	U	350	U	400	U	380	U	360	U	
Pyrene	UG/KG	270	J	59	J	400	U	380	U	1100		
1,2,4-Trichlorobenzene	UG/KG	380	U	350	U	400	U	380	U	360	U	
2,4,5-Trichlorophenol	UG/KG	1800	U	1700	U	1900	U	1800	U	1700	U	
2,4,6-Trichlorophenol	UG/KG	380	U	350	U	400	U	380	U	360	U	
Tentatively Identified Compounds		21		27		17		14		20		

APPENDIX F.2 TABLE OF ALL VALIDATED ANALYTICAL DATA FOR SOIL
OPERABLE UNIT 5, AOC 7

MOUND OPERATIONAL AREA											
		B13002		B13003		B13004		B13005		B14001	
		623065 REG		623083 REG		623102 REG		623119 REG		623868 REG	
		7/5/94		7/5/94		7/5/94		7/5/94		7/7/94	
		Result	Val	Result	Val	Result	Val	Result	Val	Result	Val
Semi-volatile Organics	Units										
Acenaphthene	UG/KG	180	J	390	U	410	U	380	U	140	J
Acenaphthylene	UG/KG	390	U	390	U	410	U	380	U	370	U
Anthracene	UG/KG	380	J	390	U	410	U	380	U	140	J
Benzo(a)anthracene	UG/KG	1100		390	U	410	U	380	U	530	
Benzo(a)pyrene	UG/KG	890		390	U	410	U	380	U	500	
Benzo(b)fluoranthene	UG/KG	1500		390	U	410	U	380	U	1000	
Benzo(g,h,i)perylene	UG/KG	370	J	390	U	410	U	380	U	110	J
Benzo(k)fluoranthene	UG/KG	2800		390	U	410	U	380	U	1600	
Benzoic Acid	UG/KG	1900	U	1900	U	92	J	46	J	1800	U
Benzyl Alcohol	UG/KG	390	U	390	U	410	U	380	U	370	U
2-Benzyl-4-Chlorophenol	UG/KG	390	U	390	U	410	U	380	U	370	U
bis(2-Chloroethoxy)methane	UG/KG	390	U	390	U	410	U	380	U	370	U
bis(2-Chloroethyl)ether	UG/KG	390	U	390	U	410	U	380	U	370	U
bis(2-Ethylhexyl)phthalate	UG/KG	86	J	390	U	410	U	380	U	2800	
4-Bromophenyl-phenylether	UG/KG	390	U	390	U	410	U	380	U	370	U
Butylbenzylphthalate	UG/KG	390	U	390	U	410	U	380	U	53	J
Carbazole	UG/KG	260	J	390	U	410	U	380	U	110	J
4-Chloro-3-methylphenol	UG/KG	390	U	390	U	410	U	380	U	370	U
4-Chloroaniline	UG/KG	390	R	390	R	410	R	380	R	370	R
2-Chloronaphthalene	UG/KG	390	U	390	U	410	U	380	U	370	U
2-Chlorophenol	UG/KG	390	U	390	U	410	U	380	U	370	U
4-Chlorophenyl-phenylether	UG/KG	390	U	390	U	410	U	380	U	370	U
Chrysene	UG/KG	1100		390	U	410	U	380	U	480	
Di-n-butylphthalate	UG/KG	390	U	390	U	410	U	380	U	370	U
Di-n-octylphthalate	UG/KG	390	U	390	U	410	U	380	U	370	U
Dibenzo(a,h)anthracene	UG/KG	160	J	390	U	410	U	380	U	370	U
Dibenzofuran	UG/KG	120	J	390	U	410	U	380	U	57	J
1,2-Dichlorobenzene	UG/KG	390	U	390	U	410	U	380	U	370	U
1,3-Dichlorobenzene	UG/KG	390	U	390	U	410	U	380	U	370	U
1,4-Dichlorobenzene	UG/KG	390	U	390	U	410	U	380	U	370	U
3,3'-Dichlorobenzidine	UG/KG	780	UJ	790	UJ	820	UJ	750	UJ	370	U
2,4-Dichlorophenol	UG/KG	390	U	390	U	410	U	380	U	370	U
Diethylphthalate	UG/KG	390	U	390	U	410	U	380	U	370	U
2,4-Dimethylphenol	UG/KG	390	U	390	U	410	U	380	U	370	U
Dimethylphthalate	UG/KG	390	U	390	U	410	U	380	U	370	U

APPENDIX F.2 TABLE OF ALL VALIDATED ANALYTICAL DATA FOR SOIL
OPERABLE UNIT 5, AOC 7

4,6-Dinitro-2-methylphenol	UG/KG	1900	U	1900	U	2000	U	1800	U	920	U
2,4-Dinitrophenol	UG/KG	1900	U	1900	U	2000	U	1800	U	920	U
2,4-Dinitrotoluene	UG/KG	390	U	390	U	410	U	380	U	370	U
2,6-Dinitrotoluene	UG/KG	390	U	390	U	410	U	380	U	370	U
Fluoranthene	UG/KG	2100		390	U	410	U	380	U	1200	
Fluorene	UG/KG	210	J	390	U	410	U	380	U	98	J
Hexachlorobenzene	UG/KG	390	U	390	U	410	U	380	U	370	U
Hexachlorobutadiene	UG/KG	390	U	390	U	410	U	380	U	370	U
Hexachlorocyclopentadiene	UG/KG	390	U	390	U	410	U	380	U	370	U
Hexachloroethane	UG/KG	390	U	390	U	410	U	380	U	370	U
Indeno(1,2,3-c,d)pyrene	UG/KG	520		390	U	410	U	380	U	180	J
Isophorone	UG/KG	390	U	390	U	410	U	380	U	370	U
2-Methylnaphthalene	UG/KG	39	J	390	U	410	U	380	U	93	J
2-Methylphenol	UG/KG	390	U	390	U	410	U	380	U	370	U
4-Methylphenol	UG/KG	390	U	390	U	410	U	380	U	370	U
N-Nitroso-di-n-propylamine	UG/KG	390	UJ	390	U	410	U	380	U	370	U
N-Nitrosodiphenylamine	UG/KG	390	U	390	U	410	U	380	U	370	UJ
Naphthalene	UG/KG	390	U	390	U	410	U	380	U	40	J
2-Nitroaniline	UG/KG	1900	UJ	1900	U	2000	U	1800	U	920	U
3-Nitroaniline	UG/KG	1900	U	1900	U	2000	U	1800	U	920	U
4-Nitroaniline	UG/KG	1900	U	1900	U	2000	UJ	1800	UJ	920	U
Nitrobenzene	UG/KG	390	U	390	U	410	UJ	380	UJ	370	U
2-Nitrophenol	UG/KG	390	U	390	U	410	U	380	U	370	U
4-Nitrophenol	UG/KG	1900	U	1900	U	2000	U	1800	U	920	U
2,2'-oxybis(1-Chloropropane)	UG/KG	390	UJ	390	U	410	U	380	U	370	U
Pentachlorophenol	UG/KG	1900	U	1900	U	2000	U	1800	U	920	U
Phenanthrene	UG/KG	2100		390	U	410	U	380	U	800	
Phenol	UG/KG	390	U	390	U	410	U	380	U	370	U
Pyrene	UG/KG	2600		390	U	410	U	380	U	780	
1,2,4-Trichlorobenzene	UG/KG	390	U	390	U	410	U	380	U	370	U
2,4,5-Trichlorophenol	UG/KG	1900	U	1900	U	2000	U	1800	U	920	U
2,4,6-Trichlorophenol	UG/KG	390	U	390	U	410	U	380	U	370	U
Tentatively Identified Compounds		23		28		22		22		23	

APPENDIX F.2 TABLE OF ALL VALIDATED ANALYTICAL DATA FOR SOIL
OPERABLE UNIT 5, AOC 7

MOUND OPERATIONAL AREA											
		B14002		B14004		B14104		B15001		B15002	
		623900 REG		624381 REG		624373 REG		629806 REG		629822 REG	
		7/7/94		7/8/94		07/08/94DUPE		7/27/94		7/27/94	
		Result	Val	Result	Val	Result	Val	Result	Val	Result	Val
Semi-volatile Organics	Units										
Acenaphthene	UG/KG	360	U	430	U	390	U	360	J	750	U
Acenaphthylene	UG/KG	360	U	430	U	390	U	510	U	750	U
Anthracene	UG/KG	360	U	430	U	390	U	270	J	750	U
Benzo(a)anthracene	UG/KG	360	U	73	J	390	U	1000	J	100	J
Benzo(a)pyrene	UG/KG	360	U	430	U	390	U	840	J	750	U
Benzo(b)fluoranthene	UG/KG	360	U	130	J	390	U	1900	J	200	J
Benzo(g,h,i)perylene	UG/KG	360	U	430	U	390	U	160	J	750	U
Benzo(k)fluoranthene	UG/KG	52	J	210	J	390	U	3000	J	340	J
Benzoic Acid	UG/KG	1800	U	63	J	1900	U	2500	U	3700	U
Benzyl Alcohol	UG/KG	360	U	430	U	390	U	510	U	750	U
2-Benzyl-4-Chlorophenol	UG/KG	360	U	430	U	390	U	510	U	750	U
bis(2-Chloroethoxy)methane	UG/KG	360	U	430	U	390	U	510	U	750	U
bis(2-Chloroethyl)ether	UG/KG	360	U	430	U	390	U	510	U	750	U
bis(2-Ethylhexyl)phthalate	UG/KG	360	U	700		780		510	U	750	U
4-Bromophenyl-phenylether	UG/KG	360	U	430	U	390	U	510	U	750	U
Butylbenzylphthalate	UG/KG	360	U	430	U	390	U	510	U	750	U
Carbazole	UG/KG	360	U	430	U	390	U	220	J	750	U
4-Chloro-3-methylphenol	UG/KG	360	U	430	U	390	U	510	U	750	U
4-Chloroaniline	UG/KG	360	R	430	R	390	R	510	UJ	750	UJ
2-Chloronaphthalene	UG/KG	360	U	430	U	390	U	510	U	750	U
2-Chlorophenol	UG/KG	360	U	430	U	390	U	510	U	750	U
4-Chlorophenyl-phenylether	UG/KG	360	U	430	U	390	U	510	U	750	U
Chrysene	UG/KG	360	U	79	J	390	U	970	J	100	J
Di-n-butylphthalate	UG/KG	360	U	430	U	390	U	510	UJ	750	U
Di-n-octylphthalate	UG/KG	360	U	430	U	390	U	510	U	750	U
Dibenzo(a,h)anthracene	UG/KG	360	U	430	U	390	U	160	J	750	U
Dibenzofuran	UG/KG	360	U	430	U	390	U	130	J	750	U
1,2-Dichlorobenzene	UG/KG	360	U	430	U	390	U	510	U	750	U
1,3-Dichlorobenzene	UG/KG	360	U	430	U	390	U	510	U	750	U
1,4-Dichlorobenzene	UG/KG	360	U	430	U	390	U	510	U	750	U
3,3'-Dichlorobenzidine	UG/KG	730	U	870	U	780	U	1000	U	1500	U
2,4-Dichlorophenol	UG/KG	360	U	430	U	390	U	510	U	750	U
Diethylphthalate	UG/KG	360	U	430	U	390	U	510	U	750	U
2,4-Dimethylphenol	UG/KG	360	U	430	U	390	U	510	U	750	U
Dimethylphthalate	UG/KG	360	U	430	U	390	U	510	U	750	U

APPENDIX F.2 TABLE OF ALL VALIDATED ANALYTICAL DATA FOR SOIL
OPERABLE UNIT 5, AOC 7

4,6-Dinitro-2-methylphenol	UG/KG	1800	U	2100	U	1900	U	2500	U	3700	U
2,4-Dinitrophenol	UG/KG	1800	U	2100	U	1900	U	2500	U	3700	U
2,4-Dinitrotoluene	UG/KG	360	U	430	U	390	U	510	U	750	U
2,6-Dinitrotoluene	UG/KG	360	U	430	U	390	U	510	U	750	U
Fluoranthene	UG/KG	37	J	150	J	390	U	2200	J	210	J
Fluorene	UG/KG	360	U	430	U	390	U	260	J	750	U
Hexachlorobenzene	UG/KG	360	U	430	U	390	U	510	U	750	U
Hexachlorobutadiene	UG/KG	360	U	430	U	390	U	510	U	750	U
Hexachlorocyclopentadiene	UG/KG	360	U	430	U	390	U	510	U	750	U
Hexachloroethane	UG/KG	360	U	430	U	390	U	510	U	750	U
Indeno(1,2,3-c,d)pyrene	UG/KG	360	U	430	U	390	U	530	J	750	U
Isophorone	UG/KG	360	U	430	U	390	U	510	U	750	U
2-Methylnaphthalene	UG/KG	360	U	430	U	390	U	510	U	750	U
2-Methylphenol	UG/KG	360	U	430	U	390	U	510	U	750	U
4-Methylphenol	UG/KG	360	U	430	U	390	U	510	U	750	U
N-Nitroso-di-n-propylamine	UG/KG	360	U	430	U	390	U	510	U	750	U
N-Nitrosodiphenylamine	UG/KG	360	UJ	430	UJ	390	UJ	510	UJ	750	UJ
Naphthalene	UG/KG	360	U	430	U	390	U	91	J	750	U
2-Nitroaniline	UG/KG	1800	U	2100	U	1900	U	2500	U	3700	U
3-Nitroaniline	UG/KG	1800	U	2100	U	1900	U	2500	U	3700	U
4-Nitroaniline	UG/KG	1800	U	2100	U	1900	U	2500	U	3700	U
Nitrobenzene	UG/KG	360	U	430	U	390	U	510	U	750	U
2-Nitrophenol	UG/KG	360	U	430	U	390	U	510	U	750	U
4-Nitrophenol	UG/KG	1800	U	2100	U	1900	U	2500	U	3700	U
2,2'-oxybis(1-Chloropropane)	UG/KG	360	U	430	U	390	U	510	U	750	U
Pentachlorophenol	UG/KG	1800	U	2100	U	1900	U	2500	U	3700	U
Phenanthrene	UG/KG	360	U	170	J	390	U	2200	J	150	J
Phenol	UG/KG	360	U	430	U	390	U	510	U	750	U
Pyrene	UG/KG	360	U	110	J	390	U	1600	J	190	J
1,2,4-Trichlorobenzene	UG/KG	360	U	430	U	390	U	510	U	750	U
2,4,5-Trichlorophenol	UG/KG	1800	U	2100	U	1900	U	2500	U	3700	U
2,4,6-Trichlorophenol	UG/KG	360	U	430	U	390	U	510	U	750	U
Tentatively Identified Compounds		24		24		24		24		14	

APPENDIX F.2 TABLE OF ALL VALIDATED ANALYTICAL DATA FOR SOIL
OPERABLE UNIT 5, AOC 7

MOUND OPERATIONAL AREA											
		B15003		B15004		B15101		B15104		B15104	
		629830 REG		629838 REG		629814 REG		629846 REA		629846 REG	
		7/27/94		7/27/94		07/27/94DUPE		07/27/94DUPE		07/27/94DUPE	
		Result	Val	Result	Val	Result	Val	Result	Val	Result	Val
Semi-volatile Organics	Units										
Acenaphthene	UG/KG	690	U	790	U	430	UJ	830	U	830	U
Acenaphthylene	UG/KG	690	U	790	U	430	U	830	U	830	U
Anthracene	UG/KG	690	U	790	U	58	J	830	U	830	U
Benzo(a)anthracene	UG/KG	690	U	790	U	210	J	830	U	830	U
Benzo(a)pyrene	UG/KG	690	U	790	U	160	J	830	U	830	U
Benzo(b)fluoranthene	UG/KG	82	J	790	U	480	J	830	U	830	U
Benzo(g,h,i)perylene	UG/KG	690	U	790	U	430	UJ	830	U	830	U
Benzo(k)fluoranthene	UG/KG	140	J	790	U	810	J	830	U	830	U
Benzoic Acid	UG/KG	3300	U	3900	U	2100	U	4000	U	4000	R
Benzyl Alcohol	UG/KG	690	U	790	U	430	U	830	U	830	R
2-Benzyl-4-Chlorophenol	UG/KG	690	U	790	U	430	U	830	U	830	U
bis(2-Chloroethoxy)methane	UG/KG	690	U	790	U	430	U	830	U	830	U
bis(2-Chloroethyl)ether	UG/KG	690	U	790	U	430	U	830	U	830	U
bis(2-Ethylhexyl)phthalate	UG/KG	690	U	790	U	430	U	830	U	830	U
4-Bromophenyl-phenylether	UG/KG	690	U	790	U	430	U	830	U	830	U
Butylbenzylphthalate	UG/KG	690	U	790	U	430	U	830	U	830	U
Carbazole	UG/KG	690	U	790	U	430	UJ	830	U	830	U
4-Chloro-3-methylphenol	UG/KG	690	U	790	U	430	U	830	U	830	R
4-Chloroaniline	UG/KG	690	UJ	790	UJ	430	UJ	830	UJ	830	UJ
2-Chloronaphthalene	UG/KG	690	U	790	U	430	U	830	U	830	U
2-Chlorophenol	UG/KG	690	U	790	U	430	U	830	U	830	R
4-Chlorophenyl-phenylether	UG/KG	690	U	790	U	430	U	830	U	830	U
Chrysene	UG/KG	690	U	790	U	250	J	830	U	830	U
Di-n-butylphthalate	UG/KG	100	J	100	J	55	J	150	J	120	J
Di-n-octylphthalate	UG/KG	690	U	790	U	430	U	830	U	830	U
Dibenzo(a,h)anthracene	UG/KG	690	U	790	U	430	UJ	830	U	830	U
Dibenzofuran	UG/KG	690	U	790	U	430	UJ	830	U	830	U
1,2-Dichlorobenzene	UG/KG	690	U	790	U	430	U	830	U	830	U
1,3-Dichlorobenzene	UG/KG	690	U	790	U	430	U	830	U	830	U
1,4-Dichlorobenzene	UG/KG	690	U	790	U	430	U	830	U	830	U
3,3'-Dichlorobenzidine	UG/KG	1400	U	1600	U	870	U	1700	U	1700	U
2,4-Dichlorophenol	UG/KG	690	U	790	U	430	U	830	U	830	R
Diethylphthalate	UG/KG	690	U	790	U	430	U	830	U	830	U
2,4-Dimethylphenol	UG/KG	690	U	790	U	430	U	830	U	830	R
Dimethylphthalate	UG/KG	690	U	790	U	430	U	830	U	830	U

APPENDIX F.2 TABLE OF ALL VALIDATED ANALYTICAL DATA FOR SOIL
OPERABLE UNIT 5, AOC 7

4,6-Dinitro-2-methylphenol	UG/KG	3300	U	3900	U	2100	U	4000	U	4000	R
2,4-Dinitrophenol	UG/KG	3300	U	3900	U	2100	U	4000	U	4000	R
2,4-Dinitrotoluene	UG/KG	690	U	790	U	430	U	830	U	830	U
2,6-Dinitrotoluene	UG/KG	690	U	790	U	430	U	830	U	830	U
Fluoranthene	UG/KG	130	J	790	U	450	J	830	U	830	U
Fluorene	UG/KG	690	U	790	U	430	UJ	830	U	830	U
Hexachlorobenzene	UG/KG	690	U	790	U	430	U	830	U	830	U
Hexachlorobutadiene	UG/KG	690	U	790	U	430	U	830	U	830	U
Hexachlorocyclopentadiene	UG/KG	690	U	790	U	430	U	830	U	830	U
Hexachloroethane	UG/KG	690	U	790	U	430	U	830	U	830	U
Indeno(1,2,3-c,d)pyrene	UG/KG	690	U	790	U	77	J	830	U	830	U
Isophorone	UG/KG	690	U	790	U	430	U	830	U	830	U
2-Methylnaphthalene	UG/KG	690	U	790	U	430	U	830	U	830	U
2-Methylphenol	UG/KG	690	U	790	U	430	U	830	U	830	R
4-Methylphenol	UG/KG	690	U	790	U	430	U	830	U	830	R
N-Nitroso-di-n-propylamine	UG/KG	690	U	790	U	430	U	830	U	830	U
N-Nitrosodiphenylamine	UG/KG	690	UJ	790	UJ	430	UJ	830	UJ	830	UJ
Naphthalene	UG/KG	690	U	790	UJ	430	UJ	830	UJ	140	J
2-Nitroaniline	UG/KG	3300	U	3900	U	2100	U	4000	U	4000	U
3-Nitroaniline	UG/KG	3300	U	3900	U	2100	U	4000	U	4000	U
4-Nitroaniline	UG/KG	3300	U	3900	U	2100	U	4000	U	4000	U
Nitrobenzene	UG/KG	690	U	790	U	430	U	830	U	830	U
2-Nitrophenol	UG/KG	690	U	790	U	430	U	830	U	830	R
4-Nitrophenol	UG/KG	3300	U	3900	U	2100	U	4000	U	4000	R
2,2'-oxybis(1-Chloropropane)	UG/KG	690	U	790	U	430	U	830	U	830	U
Pentachlorophenol	UG/KG	3300	U	3900	U	2100	U	4000	U	4000	R
Phenanthrene	UG/KG	98	J	790	U	280	J	830	U	830	U
Phenol	UG/KG	690	U	790	U	430	U	830	U	830	R
Pyrene	UG/KG	110	J	81	J	320	J	830	UJ	830	UJ
1,2,4-Trichlorobenzene	UG/KG	690	U	790	U	430	U	830	U	830	U
2,4,5-Trichlorophenol	UG/KG	3300	U	3900	U	2100	U	4000	U	4000	R
2,4,6-Trichlorophenol	UG/KG	690	U	790	U	430	U	830	U	830	R
Tentatively Identified Compounds		16		20		27		7		22	

APPENDIX F.2 TABLE OF ALL VALIDATED ANALYTICAL DATA FOR SOIL
OPERABLE UNIT 5, AOC 7

MOUND OPERATIONAL AREA											
		B01001		B01002		B01003		B01004		B01005	
		619966 REG		619973 REG		619974 REG		619975 REG		619976 REG	
		6/20/94		6/20/94		6/20/94		6/20/94		6/20/94	
		Result	Val	Result	Val	Result	Val	Result	Val	Result	Val
Pesticides and PCBs	Units										
Aldrin	UG/KG	0.07	U	1.9	U	2	U	1.9	U	0.17	J
alpha-BHC	UG/KG	1.8	U	1.9	U	2	U	1.9	U	1.8	U
alpha-Chlordane	UG/KG	1.8	U	0.098	R	2	U	1.9	U	1.8	U
Aroclor-1016	UG/KG	35	U	37	U	39	U	36	U	36	U
Aroclor-1221	UG/KG	71	U	75	U	80	U	73	U	72	U
Aroclor-1232	UG/KG	35	U	37	U	39	U	36	U	36	U
Aroclor-1242	UG/KG	35	U	37	U	39	U	36	U	36	U
Aroclor-1248	UG/KG	35	U	37	U	39	U	36	U	36	U
Aroclor-1254	UG/KG	35	U	37	U	39	U	36	U	36	U
Aroclor-1260	UG/KG	35	U	37	U	39	U	36	U	36	U
beta-BHC	UG/KG	1.8	U	1.9	U	2	U	1.9	U	1.8	U
4,4'-DDD	UG/KG	3.5	U	3.7	U	3.9	U	3.6	U	0.14	J
4,4'-DDE	UG/KG	0.16	U	0.16	J	0.079	J	3.6	U	3.6	U
4,4'-DDT	UG/KG	0.29	J	0.11	U	3.9	U	3.6	U	3.6	U
delta-BHC	UG/KG	1.8	U	1.9	U	2	U	1.9	U	1.8	U
Dieldrin	UG/KG	0.28	U	3.7	U	3.9	U	3.6	U	3.6	U
Endosulfan I	UG/KG	1.8	U	0.12	U	2	U	1.9	U	0.058	U
Endosulfan II	UG/KG	3.5	U	0.15	J	3.9	U	3.6	U	3.6	U
Endosulfan Sulfate	UG/KG	3.5	U	3.7	U	3.9	U	3.6	U	3.6	U
Endrin	UG/KG	0.33	J	3.7	U	3.9	U	3.6	U	3.6	U
Endrin Aldehyde	UG/KG	3.5	U	0.84	J	3.9	U	3.6	U	3.6	U
Endrin Ketone	UG/KG	0.13	U	3.7	U	0.1	J	3.6	U	3.6	U
gamma-BHC (Lindane)	UG/KG	0.19	R	0.11	U	0.2	U	1.9	U	1.8	U
gamma-Chlordane	UG/KG	0.16	U	0.066	J	2	U	1.9	U	1.8	U
Heptachlor	UG/KG	0.14	J	1.9	U	0.093	J	1.9	U	0.082	U
Heptachlor Epoxide	UG/KG	0.56	J	1.9	U	2	U	1.9	U	1.8	U
p,p'-Methoxychlor	UG/KG	18	U	19	U	20	U	19	U	18	U
Toxaphene	UG/KG	180	U	190	U	200	U	190	U	180	U

APPENDIX F.2 TABLE OF ALL VALIDATED ANALYTICAL DATA FOR SOIL
OPERABLE UNIT 5, AOC 7

MOUND OPERATIONAL AREA											
		B01006		B01007		B02001		B02002		B03001	
		619977 REG		620194 REG		620216 REG		620228 REG		620975 REG	
		6/20/94		6/20/94		6/21/94		6/21/94		6/23/94	
		Result	Val	Result	Val	Result	Val	Result	Val	Result	Val
Pesticides and PCBs	**Units**										
Aldrin	UG/KG	0.22	J	0.21	J	0.17	J	2	U	0.77	J
alpha-BHC	UG/KG	1.8	U	1.9	U	1.8	U	2	U	1.8	UJ
alpha-Chlordane	UG/KG	1.8	U	1.9	U	0.13	R	2	U	0.58	R
Aroclor-1016	UG/KG	36	U	36	U	36	U	38	U	34	UJ
Aroclor-1221	UG/KG	73	U	74	U	72	U	77	U	69	UJ
Aroclor-1232	UG/KG	36	U	36	U	36	U	38	U	34	UJ
Aroclor-1242	UG/KG	36	U	36	U	36	U	38	U	34	UJ
Aroclor-1248	UG/KG	36	U	36	U	36	U	38	U	34	UJ
Aroclor-1254	UG/KG	36	U	36	U	36	U	38	U	34	UJ
Aroclor-1260	UG/KG	36	U	36	U	36	U	38	U	34	UJ
beta-BHC	UG/KG	1.8	U	1.9	U	1.8	U	2	U	1.8	UJ
4,4'-DDD	UG/KG	0.085	U	0.094	U	0.3	U	3.8	U	3.4	UJ
4,4'-DDE	UG/KG	3.6	U	3.6	U	0.083	U	3.8	U	0.74	U
4,4'-DDT	UG/KG	3.6	U	3.6	U	0.42	J	3.8	U	3.4	UJ
delta-BHC	UG/KG	1.8	U	1.9	U	1.8	U	2	U	1.8	UJ
Dieldrin	UG/KG	3.6	U	3.6	U	3.6	U	3.8	U	0.63	R
Endosulfan I	UG/KG	0.062	U	0.059	U	0.067	U	2	U	1.8	UJ
Endosulfan II	UG/KG	3.6	U	3.6	U	3.6	U	3.8	U	3.4	UJ
Endosulfan Sulfate	UG/KG	0.094	U	3.6	U	3.6	U	3.8	U	0.9	R
Endrin	UG/KG	3.6	U	3.6	U	0.15	U	3.8	U	0.46	J
Endrin Aldehyde	UG/KG	3.6	U	3.6	U	0.16	U	3.8	U	3.4	UJ
Endrin Ketone	UG/KG	3.6	U	3.6	U	0.13	U	3.8	U	2	J
gamma-BHC (Lindane)	UG/KG	0.087	U	0.083	U	1.8	U	2	U	1.8	UJ
gamma-Chlordane	UG/KG	1.8	U	1.9	U	0.13	U	2	U	0.78	J
Heptachlor	UG/KG	1.8	U	1.9	U	1.8	U	2	U	1.8	UJ
Heptachlor Epoxide	UG/KG	1.8	U	1.9	U	1.8	U	2	U	1.8	UJ
p,p'-Methoxychlor	UG/KG	18	U	19	U	1.8	J	20	U	1.3	U
Toxaphene	UG/KG	180	U	190	U	180	U	200	U	180	UJ

APPENDIX F.2 TABLE OF ALL VALIDATED ANALYTICAL DATA FOR SOIL
OPERABLE UNIT 5, AOC 7

MOUND OPERATIONAL AREA											
		B03002		B03003		B03004		B03005		B04001	
		620976 REG		620977 REG		620978 REG		621436 REG		620683 REG	
		6/23/94		6/23/94		6/23/94		6/27/94		6/22/94	
		Result	Val	Result	Val	Result	Val	Result	Val	Result	Val
Pesticides and PCBs	Units										
Aldrin	UG/KG	1.9	UJ	2	UJ	2.2	U	2	U	1.9	U
alpha-BHC	UG/KG	1.9	UJ	2	UJ	2.2	U	2	U	1.9	U
alpha-Chlordane	UG/KG	1.9	UJ	2	UJ	2.2	U	2	U	7.1	
Aroclor-1016	UG/KG	37	UJ	39	UJ	42	U	38	U	36	U
Aroclor-1221	UG/KG	75	UJ	80	UJ	85	U	77	U	74	U
Aroclor-1232	UG/KG	37	UJ	39	UJ	42	U	38	U	36	U
Aroclor-1242	UG/KG	37	UJ	39	UJ	42	U	38	U	36	U
Aroclor-1248	UG/KG	37	UJ	39	UJ	42	U	38	U	36	U
Aroclor-1254	UG/KG	37	UJ	39	UJ	42	U	38	U	36	U
Aroclor-1260	UG/KG	37	UJ	39	UJ	42	U	38	U	36	U
beta-BHC	UG/KG	1.9	UJ	2	UJ	2.2	U	2	U	1.9	U
4,4'-DDD	UG/KG	0.6	R	3.9	UJ	4.2	U	3.8	U	3.6	U
4,4'-DDE	UG/KG	3.5	J	3.9	UJ	0.84	J	3.8	U	3.6	U
4,4'-DDT	UG/KG	3.7	UJ	3.9	UJ	4.2	U	3.8	U	0.32	U
delta-BHC	UG/KG	1.9	UJ	2	UJ	2.2	U	2	U	1.9	U
Dieldrin	UG/KG	4.5	J	3.9	UJ	0.48	U	3.8	U	2.9	R
Endosulfan I	UG/KG	1.9	UJ	2	UJ	2.2	U	2	U	1.9	U
Endosulfan II	UG/KG	3.7	UJ	3.9	UJ	4.2	U	3.8	U	3.6	U
Endosulfan Sulfate	UG/KG	3.7	UJ	3.9	UJ	4.2	U	3.8	U	3.6	U
Endrin	UG/KG	3.7	UJ	3.9	UJ	4.2	U	3.8	U	3.6	U
Endrin Aldehyde	UG/KG	3.7	UJ	0.6	J	4.2	U	3.8	U	3.6	U
Endrin Ketone	UG/KG	3.7	UJ	3.9	UJ	4.2	U	3.8	U	3.6	U
gamma-BHC (Lindane)	UG/KG	1.9	UJ	2	UJ	2.2	U	2	U	1.9	U
gamma-Chlordane	UG/KG	1.9	UJ	2	UJ	2.2	U	2	U	8.5	
Heptachlor	UG/KG	1.9	UJ	2	UJ	2.2	U	2	U	0.41	J
Heptachlor Epoxide	UG/KG	1.9	UJ	2	UJ	0.23	J	2	U	0.24	U
p,p'-Methoxychlor	UG/KG	19	UJ	20	UJ	22	U	20	U	0.78	J
Toxaphene	UG/KG	190	UJ	200	UJ	220	U	200	U	190	U

APPENDIX F.2 TABLE OF ALL VALIDATED ANALYTICAL DATA FOR SOIL
OPERABLE UNIT 5, AOC 7

MOUND OPERATIONAL AREA											
		B04002		B04102		B05001		B05002		B06001	
		620684 REG		620684 REG		620686 REG		620687 REG		628684 REG	
		6/22/94		06/22/94DUPE		6/22/94		6/22/94		7/22/94	
		Result	Val	Result	Val	Result	Val	Result	Val	Result	Val
Pesticides and PCBs	Units										
Aldrin	UG/KG	2	U	2	U	1.9	U	1.9	U	1.9	U
alpha-BHC	UG/KG	2	U	2	U	1.9	U	1.9	U	1.9	U
alpha-Chlordane	UG/KG	2	U	2	U	1.9	U	1.9	U	1.9	U
Aroclor-1016	UG/KG	38	U	39	U	38	U	37	U	38	U
Aroclor-1221	UG/KG	78	U	79	U	77	U	76	U	76	U
Aroclor-1232	UG/KG	38	U	39	U	38	U	37	U	38	U
Aroclor-1242	UG/KG	38	U	39	U	38	U	37	U	38	U
Aroclor-1248	UG/KG	38	U	39	U	38	U	37	U	38	U
Aroclor-1254	UG/KG	38	U	39	U	38	U	37	U	38	U
Aroclor-1260	UG/KG	38	U	39	U	38	U	37	U	38	U
beta-BHC	UG/KG	2	U	2	U	1.9	U	1.9	U	1.9	U
4,4'-DDD	UG/KG	3.8	U	3.9	U	3.8	U	3.7	U	3.8	U
4,4'-DDE	UG/KG	3.8	U	3.9	U	0.39	J	3.7	U	3.8	U
4,4'-DDT	UG/KG	3.8	U	3.9	U	3.8	U	3.7	U	3.8	U
delta-BHC	UG/KG	2	U	2	U	1.9	U	1.9	U	0.077	U
Dieldrin	UG/KG	3.8	U	3.9	U	0.79	J	3.7	U	0.24	J
Endosulfan I	UG/KG	2	U	2	U	1.9	U	1.9	U	1.9	U
Endosulfan II	UG/KG	3.8	U	3.9	U	3.8	U	3.7	U	3.8	U
Endosulfan Sulfate	UG/KG	3.8	U	3.9	U	3.8	U	3.7	U	3.8	U
Endrin	UG/KG	3.8	U	3.9	U	3.8	U	3.7	U	3.8	U
Endrin Aldehyde	UG/KG	3.8	U	3.9	U	3.8	U	0.52	J	0.57	J
Endrin Ketone	UG/KG	3.8	U	3.9	U	3.8	U	3.7	U	0.21	J
gamma-BHC (Lindane)	UG/KG	2	U	2	U	1.9	U	1.9	U	1.9	U
gamma-Chlordane	UG/KG	2	U	2	U	0.35	U	1.9	U	1.9	U
Heptachlor	UG/KG	2	U	2	U	1.9	U	1.9	U	1.9	U
Heptachlor Epoxide	UG/KG	2	U	2	U	1.9	U	1.9	U	1.9	U
p,p'-Methoxychlor	UG/KG	20	U	20	U	19	U	19	U	19	U
Toxaphene	UG/KG	200	U	200	U	190	U	190	U	190	U

APPENDIX F.2 TABLE OF ALL VALIDATED ANALYTICAL DATA FOR SOIL
OPERABLE UNIT 5, AOC 7

MOUND OPERATIONAL AREA											
		B06002		B06003		B07001		B07002		B07003	
		628719 REG		628731 REG		621705 REG		621710 REG		622319 REG	
		7/22/94		7/22/94		6/28/94		6/28/94		6/28/94	
		Result	Val	Result	Val	Result	Val	Result	Val	Result	Val
Pesticides and PCBs	**Units**										
Aldrin	UG/KG	2	U	1.9	U	0.3	J	2	U	2	U
alpha-BHC	UG/KG	2	U	1.9	U	1.9	U	2	U	2	U
alpha-Chlordane	UG/KG	2	U	1.9	U	15	J	4.5	J	2.3	J
Aroclor-1016	UG/KG	39	U	38	U	37	U	39	U	38	U
Aroclor-1221	UG/KG	79	U	76	U	76	U	79	U	78	U
Aroclor-1232	UG/KG	39	U	38	U	37	U	39	U	38	U
Aroclor-1242	UG/KG	39	U	38	U	37	U	39	U	38	U
Aroclor-1248	UG/KG	39	U	38	U	37	U	39	U	38	U
Aroclor-1254	UG/KG	39	U	38	U	37	U	39	U	38	U
Aroclor-1260	UG/KG	39	U	38	U	37	U	39	U	38	U
beta-BHC	UG/KG	2	U	1.9	U	1.9	U	2	U	2	U
4,4'-DDD	UG/KG	3.9	U	3.8	U	3.7	U	0.2	J	3.8	U
4,4'-DDE	UG/KG	3.9	U	3.8	U	0.14	J	0.84	J	0.4	J
4,4'-DDT	UG/KG	3.9	U	3.8	U	3.7	U	3.9	U	3.8	U
delta-BHC	UG/KG	2	U	1.9	U	1.9	U	2	U	2	U
Dieldrin	UG/KG	3.9	U	3.8	U	1	J	3.9	U	3.8	U
Endosulfan I	UG/KG	2	U	1.9	U	1.9	U	2	U	2	U
Endosulfan II	UG/KG	3.9	U	3.8	U	3.7	U	3.9	U	3.8	U
Endosulfan Sulfate	UG/KG	3.9	U	3.8	U	1.2	J	0.19	J	3.8	U
Endrin	UG/KG	3.9	U	3.8	U	3.7	U	3.9	U	3.8	U
Endrin Aldehyde	UG/KG	3.9	U	3.8	U	3.7	U	3.9	U	3.8	U
Endrin Ketone	UG/KG	3.9	U	3.8	U	3.7	U	3.9	U	3.8	U
gamma-BHC (Lindane)	UG/KG	2	U	1.9	U	1.9	U	2	U	2	U
gamma-Chlordane	UG/KG	2	U	1.9	U	11	J	3.7	J	2	J
Heptachlor	UG/KG	2	U	1.9	U	0.25	J	2	U	2	U
Heptachlor Epoxide	UG/KG	2	U	1.9	U	1.9	U	2	U	2	U
p,p'-Methoxychlor	UG/KG	20	U	19	U	1.3	J	20	U	20	U
Toxaphene	UG/KG	200	U	190	U	190	U	200	U	200	U

APPENDIX F.2 TABLE OF ALL VALIDATED ANALYTICAL DATA FOR SOIL
OPERABLE UNIT 5, AOC 7

MOUND OPERATIONAL AREA											
		B07004		B07101		B08001		B08002		B08003	
		622331 REG		621711 REG		625889 REG		625896 REG		625897 REG	
		6/29/94		06/28/94DUPE		7/14/94		7/14/94		7/14/94	
		Result	Val	Result	Val	Result	Val	Result	Val	Result	Val
Pesticides and PCBs	Units										
Aldrin	UG/KG	2	U	1.9	U	0.91	J	1.9	U	2	U
alpha-BHC	UG/KG	2	U	1.9	U	1.8	U	1.9	U	2	U
alpha-Chlordane	UG/KG	2	U	7.2	J	7.2		1.9	U	2	U
Aroclor-1016	UG/KG	39	U	37	U	36	U	37	U	39	U
Aroclor-1221	UG/KG	79	U	75	U	73	U	75	U	79	U
Aroclor-1232	UG/KG	39	U	37	U	36	U	37	U	39	U
Aroclor-1242	UG/KG	39	U	37	U	36	U	37	U	39	U
Aroclor-1248	UG/KG	190		37	U	36	U	37	U	39	U
Aroclor-1254	UG/KG	39	U	37	U	36	U	37	U	39	U
Aroclor-1260	UG/KG	39	U	37	U	36	U	37	U	39	U
beta-BHC	UG/KG	2	U	1.9	U	1.8	U	1.9	U	2	U
4,4'-DDD	UG/KG	3.9	U	3.7	U	3.6	U	3.7	U	3.9	U
4,4'-DDE	UG/KG	3.9	U	3.7	U	3.6	U	3.7	U	3.9	U
4,4'-DDT	UG/KG	0.97	J	0.17	J	3.6	U	3.7	U	3.9	U
delta-BHC	UG/KG	2	U	1.9	U	1.8	U	1.9	U	2	U
Dieldrin	UG/KG	3.9	U	1	J	3.6	U	0.17	J	3.9	U
Endosulfan I	UG/KG	2	U	1.9	U	1.8	U	1.9	U	2	U
Endosulfan II	UG/KG	3.9	U	3.7	U	3.6	U	3.7	U	3.9	U
Endosulfan Sulfate	UG/KG	3.9	U	0.23	J	3.6	U	3.7	U	3.9	U
Endrin	UG/KG	3.9	U	3.7	U	3.6	U	3.7	U	3.9	U
Endrin Aldehyde	UG/KG	3.9	U	3.7	U	3.6	J	3.7	U	3.9	U
Endrin Ketone	UG/KG	3.9	U	3.7	U	3.6	U	3.7	U	3.9	U
gamma-BHC (Lindane)	UG/KG	2	U	1.9	U	1.8	U	1.9	U	2	U
gamma-Chlordane	UG/KG	2	U	5.9	J	8.2		1.9	U	2	U
Heptachlor	UG/KG	2	U	1.9	U	0.33	R	1.9	U	2	U
Heptachlor Epoxide	UG/KG	2	U	1.9	U	0.17	J	1.9	U	2	U
p,p'-Methoxychlor	UG/KG	20	U	19	U	18	U	19	U	20	U
Toxaphene	UG/KG	200	U	190	U	180	U	190	U	200	U

APPENDIX F.2 TABLE OF ALL VALIDATED ANALYTICAL DATA FOR SOIL
OPERABLE UNIT 5, AOC 7

MOUND OPERATIONAL AREA											
		B09001		B09002		B09003		B09004		B09005	
		626875 REG		626877 REG		626882 REG		626889 REG		626896 REG	
		7/19/94		7/19/94		7/19/94		7/19/94		7/19/94	
		Result	Val	Result	Val	Result	Val	Result	Val	Result	Val
Pesticides and PCBs	**Units**										
Aldrin	UG/KG	1.9	UJ	2	U	2.1	UJ	1.9	U	2	UJ
alpha-BHC	UG/KG	1.9	UJ	2	U	2.1	UJ	1.9	U	2	UJ
alpha-Chlordane	UG/KG	3.9	J	0.56	R	2.1	UJ	1.9	U	2	UJ
Aroclor-1016	UG/KG	36	UJ	39	U	41	UJ	38	U	38	UJ
Aroclor-1221	UG/KG	74	UJ	78	U	84	UJ	77	U	78	UJ
Aroclor-1232	UG/KG	36	UJ	39	U	41	UJ	38	U	38	UJ
Aroclor-1242	UG/KG	36	UJ	39	U	41	UJ	38	U	38	UJ
Aroclor-1248	UG/KG	36	UJ	39	U	41	UJ	38	U	38	UJ
Aroclor-1254	UG/KG	36	UJ	39	U	41	UJ	38	U	38	UJ
Aroclor-1260	UG/KG	36	UJ	39	U	41	UJ	38	U	38	UJ
beta-BHC	UG/KG	1.9	UJ	2	U	2.1	UJ	1.9	U	2	UJ
4,4'-DDD	UG/KG	3.6	UJ	3.9	U	4.1	UJ	3.8	U	3.8	UJ
4,4'-DDE	UG/KG	3.6	UJ	3.9	U	4.1	UJ	3.8	U	3.8	UJ
4,4'-DDT	UG/KG	3.6	UJ	3.9	U	4.1	UJ	3.8	U	3.8	UJ
delta-BHC	UG/KG	1.9	UJ	0.16	U	2.1	UJ	1.9	U	2	UJ
Dieldrin	UG/KG	3.6	UJ	3.9	U	4.1	UJ	3.8	U	3.8	UJ
Endosulfan I	UG/KG	1.9	UJ	2	U	2.1	UJ	1.9	U	2	UJ
Endosulfan II	UG/KG	3.6	UJ	3.9	U	4.1	UJ	3.8	U	3.8	UJ
Endosulfan Sulfate	UG/KG	3.6	UJ	3.9	U	4.1	UJ	3.8	U	3.8	UJ
Endrin	UG/KG	3.6	UJ	3.9	U	4.1	UJ	3.8	U	3.8	UJ
Endrin Aldehyde	UG/KG	1.7	R	3.9	U	4.1	UJ	3.8	U	3.8	UJ
Endrin Ketone	UG/KG	3.6	UJ	3.9	U	4.1	UJ	3.8	U	3.8	UJ
gamma-BHC (Lindane)	UG/KG	1.9	UJ	2	U	2.1	UJ	1.9	U	2	UJ
gamma-Chlordane	UG/KG	2.2	J	0.24	J	2.1	UJ	1.9	U	2	UJ
Heptachlor	UG/KG	1.9	UJ	2	U	2.1	UJ	1.9	U	2	UJ
Heptachlor Epoxide	UG/KG	1.9	UJ	2	U	2.1	UJ	1.9	U	2	UJ
p,p'-Methoxychlor	UG/KG	1.5	R	20	U	21	UJ	19	U	20	UJ
Toxaphene	UG/KG	190	UJ	200	U	210	UJ	190	U	200	UJ

APPENDIX F.2 TABLE OF ALL VALIDATED ANALYTICAL DATA FOR SOIL
OPERABLE UNIT 5, AOC 7

MOUND OPERATIONAL AREA											
		B09102		B10001		B10002		B10003		B11001	
		626898 REG		627624 REG		627620 REG		627621 REG		628157 REG	
		07/19/94DUPE		7/20/94		7/20/94		7/20/94		7/21/94	
		Result	Val	Result	Val	Result	Val	Result	Val	Result	Val
Pesticides and PCBs	Units										
Aldrin	UG/KG	2	UJ	1.9	U	1.9	U	1.9	U	2	UJ
alpha-BHC	UG/KG	2	UJ	1.9	U	1.9	U	1.9	U	2	UJ
alpha-Chlordane	UG/KG	0.12	U	1.5	J	1.9	U	0.1	J	1.6	R
Aroclor-1016	UG/KG	39	UJ	38	U	37	U	38	U	38	UJ
Aroclor-1221	UG/KG	79	UJ	76	U	75	U	76	U	77	UJ
Aroclor-1232	UG/KG	39	UJ	38	U	37	U	38	U	38	UJ
Aroclor-1242	UG/KG	39	UJ	38	U	37	U	38	U	38	UJ
Aroclor-1248	UG/KG	39	UJ	38	U	37	U	38	U	38	UJ
Aroclor-1254	UG/KG	39	UJ	38	U	37	U	38	U	38	UJ
Aroclor-1260	UG/KG	39	UJ	38	U	37	U	38	U	38	UJ
beta-BHC	UG/KG	2	UJ	1.9	U	1.9	U	1.9	U	2	UJ
4,4'-DDD	UG/KG	3.9	UJ	3.8	U	3.7	U	3.8	U	3.8	UJ
4,4'-DDE	UG/KG	3.9	UJ	3.8	U	3.7	U	3.8	U	0.22	J
4,4'-DDT	UG/KG	3.9	UJ	3.8	U	3.7	U	3.8	U	3.8	UJ
delta-BHC	UG/KG	2	UJ	0.19	J	1.9	U	1.9	U	2	UJ
Dieldrin	UG/KG	3.9	UJ	0.5	U	3.7	U	3.8	U	0.12	U
Endosulfan I	UG/KG	2	UJ	1.9	U	1.9	U	1.9	U	2	UJ
Endosulfan II	UG/KG	3.9	UJ	3.8	U	3.7	U	3.8	U	3.8	UJ
Endosulfan Sulfate	UG/KG	3.9	UJ	3.8	U	3.7	U	3.8	U	3.8	UJ
Endrin	UG/KG	3.9	UJ	3.8	U	3.7	U	3.8	U	0.37	J
Endrin Aldehyde	UG/KG	3.9	UJ	3.8	U	3.7	U	3.8	U	0.47	R
Endrin Ketone	UG/KG	3.9	UJ	3.8	U	3.7	U	3.8	U	3.8	UJ
gamma-BHC (Lindane)	UG/KG	2	UJ	1.9	U	1.9	U	1.9	U	2	UJ
gamma-Chlordane	UG/KG	0.21	U	1.5	J	1.9	U	0.16	J	0.61	J
Heptachlor	UG/KG	2	UJ	1.9	U	1.9	U	1.9	U	2	UJ
Heptachlor Epoxide	UG/KG	2	UJ	1.9	U	1.9	U	1.9	U	2	UJ
p,p'-Methoxychlor	UG/KG	20	UJ	19	U	19	U	19	U	20	UJ
Toxaphene	UG/KG	200	UJ	190	U	190	U	190	U	200	UJ

APPENDIX F.2 TABLE OF ALL VALIDATED ANALYTICAL DATA FOR SOIL
OPERABLE UNIT 5, AOC 7

MOUND OPERATIONAL AREA											
		B11002		B11003		B11004		B11102		B12001	
		628173 REG		628181 REG		628189 REG		628165 REG		627622 REG	
		7/21/94		7/21/94		7/21/94		07/21/94DUPE		7/20/94	
		Result	Val	Result	Val	Result	Val	Result	Val	Result	Val
Pesticides and PCBs	Units										
Aldrin	UG/KG	2	U	2	U	2.1	U	1.9	UJ	1.8	U
alpha-BHC	UG/KG	2	U	2	U	2.1	U	1.9	UJ	1.8	U
alpha-Chlordane	UG/KG	0.23	U	2	U	2.1	U	1.6	J	0.32	J
Aroclor-1016	UG/KG	39	U	38	U	40	U	38	UJ	34	U
Aroclor-1221	UG/KG	78	U	77	U	82	U	76	UJ	70	U
Aroclor-1232	UG/KG	39	U	38	U	40	U	38	UJ	34	U
Aroclor-1242	UG/KG	39	U	38	U	40	U	38	UJ	34	U
Aroclor-1248	UG/KG	39	U	38	U	40	U	38	UJ	18	J
Aroclor-1254	UG/KG	39	U	38	U	40	U	38	UJ	34	U
Aroclor-1260	UG/KG	39	U	38	U	40	U	38	UJ	34	U
beta-BHC	UG/KG	2	U	2	U	2.1	U	1.9	UJ	1.8	U
4,4'-DDD	UG/KG	3.9	U	3.8	U	4	U	3.8	UJ	3.4	U
4,4'-DDE	UG/KG	3.9	U	3.8	U	4	U	3.8	UJ	0.09	U
4,4'-DDT	UG/KG	3.9	U	3.8	U	4	U	3.8	UJ	3.4	U
delta-BHC	UG/KG	2	U	2	U	2.1	U	1.9	UJ	1.8	U
Dieldrin	UG/KG	3.9	U	3.8	U	4	U	3.8	UJ	3.4	U
Endosulfan I	UG/KG	2	U	2	U	2.1	U	1.9	UJ	1.8	U
Endosulfan II	UG/KG	3.9	U	3.8	U	4	U	3.8	UJ	3.4	U
Endosulfan Sulfate	UG/KG	0.23	U	3.8	U	4	U	0.81	U	0.35	J
Endrin	UG/KG	3.9	U	3.8	U	4	U	0.44	J	3.4	U
Endrin Aldehyde	UG/KG	3.9	U	3.8	U	4	U	0.41	R	0.26	U
Endrin Ketone	UG/KG	3.9	U	3.8	U	4	U	3.8	UJ	3.4	U
gamma-BHC (Lindane)	UG/KG	2	U	2	U	2.1	U	1.9	UJ	1.8	U
gamma-Chlordane	UG/KG	0.25	U	2	U	2.1	U	1.7	J	1.8	U
Heptachlor	UG/KG	2	U	2	U	2.1	U	1.9	UJ	1.8	U
Heptachlor Epoxide	UG/KG	2	U	2	U	2.1	U	1.9	UJ	1.8	U
p,p'-Methoxychlor	UG/KG	20	U	20	U	21	U	19	UJ	18	U
Toxaphene	UG/KG	200	U	200	U	210	U	190	UJ	180	U

APPENDIX F.2 TABLE OF ALL VALIDATED ANALYTICAL DATA FOR SOIL
OPERABLE UNIT 5, AOC 7

MOUND OPERATIONAL AREA											
		B12002		B12003		B13001		B13002		B13003	
		627625 REG		627623 REG		623053 REG		623065 REG		623083 REG	
		7/20/94		7/20/94		7/5/94		7/5/94		7/5/94	
		Result	Val	Result	Val	Result	Val	Result	Val	Result	Val
Pesticides and PCBs	Units										
Aldrin	UG/KG	2	U	2	U	1.8	U	2	U	2	U
alpha-BHC	UG/KG	2	U	2	U	1.8	U	2	U	2	U
alpha-Chlordane	UG/KG	2	U	2	U	3.1	J	1.4	J	2	U
Aroclor-1016	UG/KG	39	U	38	U	35	U	38	U	39	U
Aroclor-1221	UG/KG	80	U	77	U	72	U	78	U	78	U
Aroclor-1232	UG/KG	39	U	38	U	35	U	38	U	39	U
Aroclor-1242	UG/KG	39	U	38	U	35	U	38	U	39	U
Aroclor-1248	UG/KG	39	U	38	U	210		110		39	U
Aroclor-1254	UG/KG	39	U	38	U	35	U	38	U	39	U
Aroclor-1260	UG/KG	39	U	38	U	35	U	38	U	39	U
beta-BHC	UG/KG	2	U	2	U	1.8	U	2	U	2	U
4,4'-DDD	UG/KG	3.9	U	3.8	U	3.5	U	3.8	U	3.9	U
4,4'-DDE	UG/KG	3.9	U	3.8	U	3.5	U	3.8	U	3.9	U
4,4'-DDT	UG/KG	3.9	U	3.8	U	3.5	U	0.19	J	3.9	U
delta-BHC	UG/KG	2	U	2	U	0.16	J	0.2	J	2	U
Dieldrin	UG/KG	3.9	U	3.8	U	3.5	U	3.8	U	3.9	U
Endosulfan I	UG/KG	2	U	2	U	1.8	U	2	U	2	U
Endosulfan II	UG/KG	3.9	U	3.8	U	3.5	U	3.8	U	3.9	U
Endosulfan Sulfate	UG/KG	3.9	U	3.8	U	0.81	J	0.25	J	3.9	U
Endrin	UG/KG	3.9	U	3.8	U	3.5	U	3.8	U	3.9	U
Endrin Aldehyde	UG/KG	3.9	U	3.8	U	3.5	U	3.8	U	3.9	U
Endrin Ketone	UG/KG	3.9	U	3.8	U	0.42	J	0.21	J	3.9	U
gamma-BHC (Lindane)	UG/KG	2	U	2	U	0.22	J	2	U	2	U
gamma-Chlordane	UG/KG	2	U	2	U	0.49	J	2	U	2	U
Heptachlor	UG/KG	2	U	2	U	1.8	U	2	U	2	U
Heptachlor Epoxide	UG/KG	2	U	2	U	0.36	J	0.12	J	2	U
p,p'-Methoxychlor	UG/KG	20	U	20	U	18	U	20	U	20	U
Toxaphene	UG/KG	200	U	200	U	180	U	200	U	200	U

APPENDIX F.2 TABLE OF ALL VALIDATED ANALYTICAL DATA FOR SOIL
OPERABLE UNIT 5, AOC 7

MOUND OPERATIONAL AREA											
		B13004		B13005		B14001		B14002		B14004	
		623102 REG		623119 REG		623868 REG		623900 REG		624381 REG	
		7/5/94		7/5/94		7/7/94		7/7/94		7/8/94	
		Result	Val	Result	Val	Result	Val	Result	Val	Result	Val
Pesticides and PCBs	Units										
Aldrin	UG/KG	2.1	U	1.9	U	1.9	U	1.8	U	2.2	U
alpha-BHC	UG/KG	2.1	U	1.9	U	1.9	U	1.8	U	2.2	U
alpha-Chlordane	UG/KG	2.1	U	1.9	U	0.69	J	1.8	U	2.2	U
Aroclor-1016	UG/KG	41	U	37	U	37	U	36	U	43	U
Aroclor-1221	UG/KG	83	U	76	U	74	U	73	U	88	U
Aroclor-1232	UG/KG	41	U	37	U	37	U	36	U	43	U
Aroclor-1242	UG/KG	41	U	37	U	37	U	36	U	43	U
Aroclor-1248	UG/KG	41	U	37	U	37	U	79		330	
Aroclor-1254	UG/KG	41	U	37	U	37	U	36	U	200	
Aroclor-1260	UG/KG	41	U	37	U	37	U	36	U	43	U
beta-BHC	UG/KG	2.1	U	1.9	U	1.9	U	1.8	U	2.2	U
4,4'-DDD	UG/KG	4.1	U	3.7	U	3.7	U	3.6	U	4.3	U
4,4'-DDE	UG/KG	4.1	U	3.7	U	3.7	U	3.6	U	4.3	U
4,4'-DDT	UG/KG	4.1	U	3.7	U	3.7	U	3.6	U	4.3	U
delta-BHC	UG/KG	2.1	U	1.9	U	1.9	U	1.8	U	2.2	U
Dieldrin	UG/KG	4.1	U	3.7	U	3.7	U	3.6	U	4.3	U
Endosulfan I	UG/KG	2.1	U	1.9	U	1.9	U	1.8	U	2.2	U
Endosulfan II	UG/KG	4.1	U	3.7	U	3.7	U	3.6	U	4.3	U
Endosulfan Sulfate	UG/KG	4.1	U	3.7	U	1.4	J	3.6	U	4.3	U
Endrin	UG/KG	4.1	U	3.7	U	1.6	J	3.6	U	4.3	U
Endrin Aldehyde	UG/KG	4.1	U	3.7	U	3.7	U	3.6	U	4.3	U
Endrin Ketone	UG/KG	4.1	U	3.7	U	3.7	U	3.6	U	4.3	U
gamma-BHC (Lindane)	UG/KG	2.1	U	1.9	U	1.9	U	1.8	U	2.2	U
gamma-Chlordane	UG/KG	2.1	U	1.9	U	0.16	J	1.8	U	2.2	U
Heptachlor	UG/KG	2.1	U	1.9	U	1.9	U	1.8	U	2.2	U
Heptachlor Epoxide	UG/KG	2.1	U	1.9	U	1.9	U	1.8	U	2.2	U
p,p'-Methoxychlor	UG/KG	21	U	19	U	7	J	18	U	22	U
Toxaphene	UG/KG	210	U	190	U	190	U	180	U	220	U

APPENDIX F.2 TABLE OF ALL VALIDATED ANALYTICAL DATA FOR SOIL
OPERABLE UNIT 5, AOC 7

MOUND OPERATIONAL AREA											
		B14104		B15001		B15002		B15003		B15004	
		624373 D50 REG		629806 REG		629822 REG		629830 REG		629838 REG	
		07/08/94DUPE		7/27/94		7/27/94		7/27/94		7/27/94	
		Result	Val	Result	Val	Result	Val	Result	Val	Result	Val
Pesticides and PCBs	Units										
Aldrin	UG/KG	10	U	2.6	U	4	U	3.5	U	4.1	U
alpha-BHC	UG/KG	10	U	2.6	U	4	U	3.5	U	4.1	U
alpha-Chlordane	UG/KG	10	U	1.4	R	1.2	R	0.68	U	4.1	U
Aroclor-1016	UG/KG	190	U	51	U	77	U	69	U	80	U
Aroclor-1221	UG/KG	390	U	100	U	160	U	140	U	160	U
Aroclor-1232	UG/KG	190	U	51	U	77	U	69	U	80	U
Aroclor-1242	UG/KG	190	U	51	U	77	U	69	U	80	U
Aroclor-1248	UG/KG	540		51	U	77	U	69	U	80	U
Aroclor-1254	UG/KG	270		38	J	77	U	14	J	80	U
Aroclor-1260	UG/KG	190	U	51	U	77	U	69	U	80	U
beta-BHC	UG/KG	10	U	2.6	U	4	U	3.5	U	4.1	U
4,4'-DDD	UG/KG	19	U	5.1	U	7.7	U	6.9	U	8	U
4,4'-DDE	UG/KG	19	U	5.1	U	7.7	U	6.9	U	8	U
4,4'-DDT	UG/KG	19	U	5.1	U	7.7	U	6.9	U	8	U
delta-BHC	UG/KG	10	U	0.24	R	4	U	3.5	U	4.1	U
Dieldrin	UG/KG	19	U	0.14	U	7.7	U	6.9	U	8	U
Endosulfan I	UG/KG	10	U	2.6	U	4	U	3.5	U	4.1	U
Endosulfan II	UG/KG	19	U	5.1	U	7.7	U	6.9	U	8	U
Endosulfan Sulfate	UG/KG	19	U	0.36	R	0.67	U	0.73	J	0.52	U
Endrin	UG/KG	19	U	5.1	U	1.3	J	6.9	U	8	U
Endrin Aldehyde	UG/KG	19	U	5.1	U	7.7	U	6.9	U	8	U
Endrin Ketone	UG/KG	19	U	5.1	U	7.7	U	6.9	U	8	U
gamma-BHC (Lindane)	UG/KG	0.86		2.6	U	4	U	3.5	U	4.1	U
gamma-Chlordane	UG/KG	10	U	2.6	U	0.48	J	0.21	U	4.1	U
Heptachlor	UG/KG	10	U	2.6	U	4	U	3.5	U	4.1	U
Heptachlor Epoxide	UG/KG	10	U	0.17	U	4	U	3.5	U	4.1	U
p,p'-Methoxychlor	UG/KG	100	U	26	U	40	U	35	U	41	U
Toxaphene	UG/KG	1000	U	260	U	400	U	350	U	410	U

APPENDIX F.2 TABLE OF ALL VALIDATED ANALYTICAL DATA FOR SOIL
OPERABLE UNIT 5, AOC 7

MOUND OPERATIONAL AREA					
		B15101		B15104	
		629814 REG		629846 REG	
		07/27/94DUPE		07/27/94DUPE	
		Result	Val	Result	Val
Pesticides and PCBs	Units				
Aldrin	UG/KG	2.2	U	4.3	U
alpha-BHC	UG/KG	2.2	U	4.3	U
alpha-Chlordane	UG/KG	0.88	R	4.3	U
Aroclor-1016	UG/KG	43	U	84	U
Aroclor-1221	UG/KG	88	U	170	U
Aroclor-1232	UG/KG	43	U	84	U
Aroclor-1242	UG/KG	43	U	84	U
Aroclor-1248	UG/KG	43	U	84	U
Aroclor-1254	UG/KG	29	J	84	U
Aroclor-1260	UG/KG	43	U	84	U
beta-BHC	UG/KG	2.2	U	4.3	U
4,4'-DDD	UG/KG	4.3	U	8.4	U
4,4'-DDE	UG/KG	4.3	U	8.4	U
4,4'-DDT	UG/KG	4.3	U	8.4	U
delta-BHC	UG/KG	0.28	U	4.3	U
Dieldrin	UG/KG	0.96	J	8.4	U
Endosulfan I	UG/KG	2.2	U	4.3	U
Endosulfan II	UG/KG	4.3	U	8.4	U
Endosulfan Sulfate	UG/KG	0.36	U	8.4	U
Endrin	UG/KG	4.3	U	8.4	U
Endrin Aldehyde	UG/KG	4.3	U	8.4	U
Endrin Ketone	UG/KG	4.3	U	8.4	U
gamma-BHC (Lindane)	UG/KG	2.2	U	4.3	U
gamma-Chlordane	UG/KG	2.2	U	4.3	U
Heptachlor	UG/KG	2.2	U	4.3	U
Heptachlor Epoxide	UG/KG	0.18	J	4.3	U
p,p'-Methoxychlor	UG/KG	22	U	43	U
Toxaphene	UG/KG	220	U	430	U

APPENDIX F.2 TABLE OF ALL VALIDATED ANALYTICAL DATA FOR SOIL
OPERABLE UNIT 5, AOC 7

MOUND OPERATIONAL AREA											
		B01001		B01002		B01003		B01004		B01005	
		619978 REG		620001 REG		620007 REG		620013 REG		620020 REG	
		6/20/94		6/20/94		6/20/94		6/20/94		6/20/94	
		Result	Val	Result	Val	Result	Val	Result	Val	Result	Val
Explosives	Units										
2-Amino-4,6-dinitrotoluene	MG/KG	1.5	UJ	1.5	UJ	1.5	UJ	1.5	UJ	1.5	UJ
1,3-Dinitrobenzene	MG/KG	1.5	UJ	1.5	UJ	1.5	UJ	1.5	UJ	1.5	UJ
2,4-Dinitrotoluene	MG/KG	0.5	UJ	0.5	UJ	0.5	UJ	0.5	UJ	0.5	UJ
2,6-Dinitrotoluene	MG/KG	1.5	UJ	1.5	UJ	1.5	UJ	1.5	UJ	1.5	UJ
HMX	MG/KG	3	UJ	3	UJ	3	UJ	3	UJ	3	UJ
Nitrobenzene	MG/KG	1.5	UJ	1.5	UJ	1.5	UJ	1.5	UJ	1.5	UJ
PETN	MG/KG	1	R	1	R	1	R	1	R	1	R
RDX	MG/KG	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ
Tetryl	MG/KG	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ
1,3,5-Trinitrobenzene	MG/KG	1.5	UJ	1.5	UJ	1.5	UJ	1.5	UJ	1.5	UJ
2,4,6-Trinitrotoluene	MG/KG	1.5	UJ	1.5	UJ	1.5	UJ	1.5	UJ	1.5	UJ

		B01006		B01007		B02001		B02002		B03001	
		620026 REG		620214 REG		620226 REG		620242 REG		620987 REG	
		6/20/94		6/20/94		6/21/94		6/21/94		6/23/94	
		Result	Val	Result	Val	Result	Val	Result	Val	Result	Val
Explosives	Units										
2-Amino-4,6-dinitrotoluene	MG/KG	1.5	UJ	1.5	U	1.5	U	1.5	U	1.5	UJ
1,3-Dinitrobenzene	MG/KG	1.5	UJ	1.5	U	1.5	U	1.5	U	1.5	UJ
2,4-Dinitrotoluene	MG/KG	0.5	UJ	0.5	U	0.5	U	0.5	U	0.5	UJ
2,6-Dinitrotoluene	MG/KG	1.5	UJ	1.5	U	1.5	U	1.5	U	1.5	UJ
HMX	MG/KG	3	UJ	3	U	3	U	3	U	3	UJ
Nitrobenzene	MG/KG	1.5	UJ	1.5	U	1.5	U	1.5	U	1.5	UJ
PETN	MG/KG	1	R	1	R	1	R	1	R	1	R
RDX	MG/KG	2.5	UJ	2.5	U	2.5	U	2.5	U	2.5	UJ
Tetryl	MG/KG	2.5	UJ	0.4	UJ	2.5	U	2.5	U	2.5	UJ
1,3,5-Trinitrobenzene	MG/KG	1.5	UJ	1.5	U	1.5	U	1.5	U	1.5	UJ
2,4,6-Trinitrotoluene	MG/KG	1.5	UJ	1.5	U	1.5	U	1.5	U	1.5	UJ

APPENDIX F.2 TABLE OF ALL VALIDATED ANALYTICAL DATA FOR SOIL
OPERABLE UNIT 5, AOC 7

MOUND OPERATIONAL AREA											
		B03002		B03003		B03004		B03005		B04001	
		620993 REG		620999 REG		621429 REG		621445 REG		620693 REG	
		6/23/94		6/23/94		6/23/94		6/27/94		6/22/94	
		Result	Val	Result	Val	Result	Val	Result	Val	Result	Val
Explosives	Units										
2-Amino-4,6-dinitrotoluene	MG/KG	1.5	UJ	1.5	UJ	1.5	UJ	1.5	UJ	1.5	U
1,3-Dinitrobenzene	MG/KG	1.5	UJ	1.5	UJ	1.5	UJ	1.5	UJ	1.5	U
2,4-Dinitrotoluene	MG/KG	0.5	UJ	0.5	UJ	0.5	UJ	0.5	UJ	0.5	U
2,6-Dinitrotoluene	MG/KG	1.5	UJ	1.5	UJ	1.5	UJ	1.5	UJ	1.5	U
HMX	MG/KG	3	UJ	3	UJ	3	UJ	3	UJ	3	U
Nitrobenzene	MG/KG	1.5	UJ	1.5	UJ	1.5	UJ	1.5	UJ	1.5	U
PETN	MG/KG	1	R	1	R	1	R	1	R	1	R
RDX	MG/KG	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ	2.5	U
Tetryl	MG/KG	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ	2.5	U
1,3,5-Trinitrobenzene	MG/KG	1.5	UJ	1.5	UJ	1.5	UJ	1.5	UJ	1.5	U
2,4,6-Trinitrotoluene	MG/KG	1.5	UJ	1.5	UJ	1.5	UJ	1.5	UJ	1.5	U

		B04002		B04102		B05001		B05002		B06001	
		620699 REG		620705 REG		620711 REG		620717 REG		628710 REG	
		6/22/94		06/22/94DUPE		6/22/94		6/22/94		7/22/94	
		Result	Val	Result	Val	Result	Val	Result	Val	Result	Val
Explosives	Units										
2-Amino-4,6-dinitrotoluene	MG/KG	1.5	UJ	1.5	UJ	1.5	UJ	1.5	UJ	1.5	UJ
1,3-Dinitrobenzene	MG/KG	1.5	UJ	1.5	UJ	1.5	UJ	1.5	UJ	1.5	UJ
2,4-Dinitrotoluene	MG/KG	0.5	UJ	0.5	UJ	0.5	UJ	0.5	UJ	0.5	UJ
2,6-Dinitrotoluene	MG/KG	1.5	UJ	1.5	UJ	1.5	UJ	1.5	UJ	1.5	UJ
HMX	MG/KG	3	UJ	3	UJ	3	UJ	3	UJ	3	UJ
Nitrobenzene	MG/KG	1.5	UJ	1.5	UJ	1.5	UJ	1.5	UJ	1.5	UJ
PETN	MG/KG	1	R	1	R	1	R	1	R	1	R
RDX	MG/KG	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ
Tetryl	MG/KG	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ
1,3,5-Trinitrobenzene	MG/KG	1.5	UJ	1.5	UJ	1.5	UJ	1.5	UJ	1.5	UJ
2,4,6-Trinitrotoluene	MG/KG	1.5	UJ	1.5	UJ	1.5	UJ	1.5	UJ	1.5	UJ

APPENDIX F.2 TABLE OF ALL VALIDATED ANALYTICAL DATA FOR SOIL
OPERABLE UNIT 5, AOC 7

MOUND OPERATIONAL AREA											
		B06002		B06003		B07001		B07002		B07003	
		628727 REG		628737 REG		621721 REG		621739 REG		622329 REG	
		7/22/94		7/22/94		6/28/94		6/28/94		6/28/94	
		Result	Val	Result	Val	Result	Val	Result	Val	Result	Val
Explosives	Units										
2-Amino-4,6-dinitrotoluene	MG/KG	1.5	UJ	1.5	UJ	1.5	U	1.5	U	1.5	UJ
1,3-Dinitrobenzene	MG/KG	1.5	UJ	1.5	UJ	1.5	U	1.5	U	1.5	UJ
2,4-Dinitrotoluene	MG/KG	0.5	UJ	0.5	UJ	0.5	U	0.5	U	0.5	UJ
2,6-Dinitrotoluene	MG/KG	1.5	UJ	1.5	UJ	1.5	U	1.5	U	1.5	UJ
HMX	MG/KG	3	UJ	3	U	3	U	3	U	3	UJ
Nitrobenzene	MG/KG	1.5	UJ	1.5	UJ	1.5	UJ	1.5	U	1.5	UJ
PETN	MG/KG	1	R	1	R	1	R	1	R	1	R
RDX	MG/KG	2.5	UJ	0.036	R	2.5	U	2.5	U	2.5	UJ
Tetryl	MG/KG	2.5	UJ	2.5	UJ	2.5	UJ	2.5	U	2.5	UJ
1,3,5-Trinitrobenzene	MG/KG	1.5	UJ	0.01	R	1.5	U	1.5	U	1.5	UJ
2,4,6-Trinitrotoluene	MG/KG	1.5	UJ	1.5	UJ	1.5	U	1.5	U	1.5	UJ

		B07004		B07101		B08001		B08002		B08003	
		622357 REG		621750 REG		624919 REG		625930 REG		625936 REG	
		6/29/94		06/28/94DUPE		7/14/94		7/14/94		7/14/94	
		Result	Val	Result	Val	Result	Val	Result	Val	Result	Val
Explosives	Units										
2-Amino-4,6-dinitrotoluene	MG/KG	1.5	UJ	1.5	U	1.5	U	1.5	U	1.5	U
1,3-Dinitrobenzene	MG/KG	1.5	UJ	1.5	U	1.5	U	1.5	U	1.5	U
2,4-Dinitrotoluene	MG/KG	0.5	UJ	0.5	U	0.5	UJ	0.5	U	0.5	U
2,6-Dinitrotoluene	MG/KG	1.5	UJ	1.5	U	1.5	U	1.5	U	1.5	U
HMX	MG/KG	3	UJ	3	U	3	U	3	U	3	U
Nitrobenzene	MG/KG	1.5	UJ	1.5	U	1.5	U	1.5	U	1.5	U
PETN	MG/KG	1	R	1	R	1	R	1	R	1	R
RDX	MG/KG	2.5	UJ	2.5	U	2.5	U	2.5	U	2.5	U
Tetryl	MG/KG	2.5	UJ	2.5	U	2.5	U	2.5	U	2.5	U
1,3,5-Trinitrobenzene	MG/KG	1.5	UJ	1.5	U	1.5	U	1.5	U	1.5	U
2,4,6-Trinitrotoluene	MG/KG	1.5	UJ	1.5	U	1.5	U	1.5	U	1.5	U

APPENDIX F.2 TABLE OF ALL VALIDATED ANALYTICAL DATA FOR SOIL
OPERABLE UNIT 5, AOC 7

MOUND OPERATIONAL AREA											
		B09001		B09002		B09003		B09004		B09005	
		626904 REG		626914 REG		626945 REG		626957 REG		626965 REG	
		7/19/94		7/19/94		7/19/94		7/19/94		7/19/94	
		Result	Val	Result	Val	Result	Val	Result	Val	Result	Val
Explosives	Units										
2-Amino-4,6-dinitrotoluene	MG/KG	1.5	U	1.5	U	1.5	U	1.5	U	1.5	UJ
1,3-Dinitrobenzene	MG/KG	1.5	U	1.5	U	1.5	U	1.5	U	1.5	UJ
2,4-Dinitrotoluene	MG/KG	0.5	UJ	0.5	UJ	0.5	UJ	0.5	UJ	0.5	UJ
2,6-Dinitrotoluene	MG/KG	1.5	U	1.5	U	1.5	U	1.5	U	1.5	UJ
HMX	MG/KG	3	U	3	U	3	U	3	U	3	UJ
Nitrobenzene	MG/KG	1.5	UJ	1.5	UJ	1.5	UJ	1.5	UJ	1.5	UJ
PETN	MG/KG	1	R	1	R	1	R	1	R	1	R
RDX	MG/KG	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ
Tetryl	MG/KG	2.5	U	2.5	U	2.5	U	2.5	U	2.5	UJ
1,3,5-Trinitrobenzene	MG/KG	1.5	U	1.5	U	1.5	U	1.5	U	1.5	UJ
2,4,6-Trinitrotoluene	MG/KG	1.5	U	1.5	U	1.5	U	1.5	U	1.5	UJ

		B09102		B10001		B10002		B10003		B11001	
		626977 REG		627672 REG		627636 REG		627642 REG		628163 REG	
		07/19/94DUPE		7/20/94		7/20/94		7/20/94		7/21/94	
		Result	Val	Result	Val	Result	Val	Result	Val	Result	Val
Explosives	Units										
2-Amino-4,6-dinitrotoluene	MG/KG	1.5	U	1.5	U	1.5	U	1.5	U	1.5	UJ
1,3-Dinitrobenzene	MG/KG	1.5	U	1.5	UJ	1.5	U	1.5	U	1.5	UJ
2,4-Dinitrotoluene	MG/KG	0.5	UJ	0.5	U	0.5	U	0.5	U	0.5	UJ
2,6-Dinitrotoluene	MG/KG	1.5	U	1.5	UJ	1.5	U	1.5	U	1.5	UJ
HMX	MG/KG	3	U	3	UJ	3	U	3	U	3	UJ
Nitrobenzene	MG/KG	1.5	UJ	1.5	UJ	1.5	U	1.5	U	1.5	UJ
PETN	MG/KG	1	R	1	R	1	R	1	R	1	R
RDX	MG/KG	2.5	UJ	2.5	U	2.5	U	2.5	U	2.5	UJ
Tetryl	MG/KG	2.5	U	2.5	U	2.5	U	2.5	U	2.5	UJ
1,3,5-Trinitrobenzene	MG/KG	1.5	U	1.5	UJ	1.5	U	1.5	U	1.5	UJ
2,4,6-Trinitrotoluene	MG/KG	1.5	U	1.5	U	1.5	U	1.5	U	1.5	UJ

APPENDIX F.2 TABLE OF ALL VALIDATED ANALYTICAL DATA FOR SOIL
OPERABLE UNIT 5, AOC 7

MOUND OPERATIONAL AREA											
		B11002		B11003		B11004		B11102		B12001	
		628179 REG		628187 REG		628195 REG		628171 REG		627648 REG	
		7/21/94		7/21/94		7/21/94		07/21/94DUPE		7/20/94	
		Result	Val	Result	Val	Result	Val	Result	Val	Result	Val
Explosives	Units										
2-Amino-4,6-dinitrotoluene	MG/KG	1.5	UJ	1.5	UJ	1.5	UJ	1.5	UJ	1.5	U
1,3-Dinitrobenzene	MG/KG	1.5	UJ	1.5	UJ	1.5	UJ	1.5	UJ	1.5	U
2,4-Dinitrotoluene	MG/KG	0.5	UJ	0.5	UJ	0.5	UJ	0.5	UJ	0.5	U
2,6-Dinitrotoluene	MG/KG	1.5	UJ	1.5	UJ	1.5	UJ	1.5	UJ	1.5	U
HMX	MG/KG	3	UJ	0.24	J	3	UJ	3	UJ	3	U
Nitrobenzene	MG/KG	1.5	UJ	1.5	UJ	1.5	UJ	1.5	UJ	1.5	U
PETN	MG/KG	1	R	1	R	1	R	1	R	1	R
RDX	MG/KG	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ	2.5	U
Tetryl	MG/KG	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ	2.5	U
1,3,5-Trinitrobenzene	MG/KG	1.5	UJ	1.5	UJ	1.5	UJ	1.5	UJ	1.5	U
2,4,6-Trinitrotoluene	MG/KG	1.5	UJ	1.5	UJ	1.5	UJ	1.5	UJ	1.5	U

		B12002		B12003		B13001		B13002		B13003	
		627684 REG		627658 REG		623055 REG		623070 REG		623087 REG	
		7/20/94		7/20/94		7/5/94		7/5/94		7/5/94	
		Result	Val	Result	Val	Result	Val	Result	Val	Result	Val
Explosives	Units										
2-Amino-4,6-dinitrotoluene	MG/KG	1.5	U	1.5	U	1.5	U	1.5	U	1.5	U
1,3-Dinitrobenzene	MG/KG	1.5	U	1.5	U	1.5	U	1.5	U	1.5	U
2,4-Dinitrotoluene	MG/KG	0.85		0.5	U	0.5	U	0.5	U	0.5	U
2,6-Dinitrotoluene	MG/KG	1.5	UJ	1.5	UJ	1.5	U	1.5	U	1.5	U
HMX	MG/KG	3	UJ	3	UJ	3	U	3	U	0.72	J
Nitrobenzene	MG/KG	1.5	UJ	1.5	UJ	1.5	U	1.5	U	1.5	U
PETN	MG/KG	1	R	1	R	1	R	1	R	1	R
RDX	MG/KG	2.5	U	2.5	U	2.5	U	2.5	U	0.77	J
Tetryl	MG/KG	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
1,3,5-Trinitrobenzene	MG/KG	1.5	U	1.5	U	1.5	R	1.5	R	1.5	R
2,4,6-Trinitrotoluene	MG/KG	1.5	U	1.5	U	1.5	U	1.5	U	1.5	U

APPENDIX F.2 TABLE OF ALL VALIDATED ANALYTICAL DATA FOR SOIL
OPERABLE UNIT 5, AOC 7

MOUND OPERATIONAL AREA											
		B13004		B13005		B14001		B14002		B14004	
		623108 REG		623127 REG		623892 REG		623912 REG		624387 REG	
		7/5/94		7/5/94		7/7/94		7/7/94		7/8/94	
		Result	Val	Result	Val	Result	Val	Result	Val	Result	Val
Explosives	Units										
2-Amino-4,6-dinitrotoluene	MG/KG	1.5	U	1.5	U	1.5	UJ	1.5	UJ	1.5	UJ
1,3-Dinitrobenzene	MG/KG	1.5	U	1.5	U	1.5	UJ	1.5	UJ	1.5	UJ
2,4-Dinitrotoluene	MG/KG	0.5	U	0.5	U	0.5	UJ	0.5	UJ	0.5	UJ
2,6-Dinitrotoluene	MG/KG	1.5	U	1.5	U	1.5	UJ	1.5	UJ	1.5	UJ
HMX	MG/KG	3	U	3	U	3	UJ	3	UJ	3	UJ
Nitrobenzene	MG/KG	1.5	U	1.5	U	1.5	UJ	1.5	UJ	1.5	UJ
PETN	MG/KG	1	R	1	R	1	R	1	R	1	R
RDX	MG/KG	2.5	U	2.5	U	2.5	UJ	2.5	UJ	2.5	UJ
Tetryl	MG/KG	2.5	U	2.5	U	2.5	UJ	2.5	UJ	2.5	UJ
1,3,5-Trinitrobenzene	MG/KG	1.5	R	1.5	R	1.5	UJ	1.5	UJ	1.5	UJ
2,4,6-Trinitrotoluene	MG/KG	1.5	U	1.5	U	1.5	UJ	1.5	UJ	1.5	UJ

		B14104		B15001		B15002		B15003		B15004	
		624379 REG		629812 REG		629828 REG		629836 REG		629844 REG	
		07/08/94DUPE		7/27/94		7/27/94		7/27/94		7/27/94	
		Result	Val	Result	Val	Result	Val	Result	Val	Result	Val
Explosives	Units										
2-Amino-4,6-dinitrotoluene	MG/KG	1.5	UJ	1.5	U	1.5	U	1.5	U	1.5	U
1,3-Dinitrobenzene	MG/KG	1.5	UJ	1.5	U	1.5	U	1.5	U	1.5	U
2,4-Dinitrotoluene	MG/KG	0.5	UJ	0.5	U	0.5	U	0.5	U	0.5	U
2,6-Dinitrotoluene	MG/KG	1.5	UJ	1.5	U	1.5	U	1.5	U	1.5	U
HMX	MG/KG	3	UJ	3	U	3	U	3	U	0.24	J
Nitrobenzene	MG/KG	1.5	UJ	1.5	U	1.5	U	1.5	U	1.5	U
PETN	MG/KG	1	R	1	R	1	R	1	R	1	R
RDX	MG/KG	2.5	UJ	2.5	U	2.5	U	2.5	U	0.19	J
Tetryl	MG/KG	2.5	UJ	2.5	U	2.5	U	2.5	U	2.5	U
1,3,5-Trinitrobenzene	MG/KG	1.5	UJ	1.5	U	1.5	U	1.5	U	1.5	U
2,4,6-Trinitrotoluene	MG/KG	1.5	UJ	1.5	U	1.5	U	1.5	U	1.5	U

APPENDIX F.2 TABLE OF ALL VALIDATED ANALYTICAL DATA FOR SOIL
OPERABLE UNIT 5, AOC 7

MOUND OPERATIONAL AREA											
		B15101		B15104							
		629820 REG		629852 REG							
		07/27/94DUPE		07/27/94DUPE							
		Result	Val	Result	Val						
Explosives	Units										
2-Amino-4,6-dinitrotoluene	MG/KG	1.5	U	1.5	U						
1,3-Dinitrobenzene	MG/KG	1.5	U	1.5	U						
2,4-Dinitrotoluene	MG/KG	0.5	U	0.5	U						
2,6-Dinitrotoluene	MG/KG	1.5	U	1.5	U						
HMX	MG/KG	3	U	0.13	J						
Nitrobenzene	MG/KG	1.5	U	1.5	U						
PETN	MG/KG	1	R	1	R						
RDX	MG/KG	2.5	U	2.5	U						
Tetryl	MG/KG	2.5	U	2.5	U						
1,3,5-Trinitrobenzene	MG/KG	1.5	U	1.5	U						
2,4,6-Trinitrotoluene	MG/KG	1.5	U	1.5	U						

APPENDIX F.2 TABLE OF ALL VALIDATED ANALYTICAL DATA FOR SOIL
OPERABLE UNIT 5, AOC 7

MOUND OPERATIONAL AREA											
		B01001		B01002		B01003		B01004		B01005	
		619997 REG		620006 REG		620012 REG		620019 REG		620025 REG	
		6/20/94		6/20/94		6/20/94		6/20/94		6/20/94	
		Result	Val	Result	Val	Result	Val	Result	Val	Result	Val
Total Organic Carbon	Units										
Organic Carbon	MG/KG	18300	J	8780	J	5200	J	11200	J	9680	J
Organic Carbon	MG/KG	16000	J	8790	J	6720	J	7940	J	9600	J
Organic Carbon	MG/KG	11700	J	8010	J	4540	J	8020	J	9730	J
Organic Carbon	MG/KG	15800	J	6410	J	5550	J	6360	J	7520	J

		B01006		B01007		B02001		B02002		B03001	
		620031 REG		620213 REG		620225 REG		620240 REG		620988 REG	
		6/20/94		6/20/94		6/21/94		6/21/94		6/23/94	
		Result	Val	Result	Val	Result	Val	Result	Val	Result	Val
Total Organic Carbon	Units										
Organic Carbon	MG/KG	12900	J	12900	J	27700	J	2580	J	63600	J
Organic Carbon	MG/KG	7050	J	11600	J	27400	J	3710	J	102000	J
Organic Carbon	MG/KG	9140	J	16600	J	20500	J	3720	J	88000	J
Organic Carbon	MG/KG	12100	J	6470	J	19800	J	6010	J	89700	J

		B03002		B03003		B03004		B03005		B04001	
		620994 REG		621000 REG		621001 REG		621444 REG		620698 REG	
		6/23/94		6/23/94		6/23/94		6/27/94		6/22/94	
		Result	Val	Result	Val	Result	Val	Result	Val	Result	Val
Total Organic Carbon	Units										
Organic Carbon	MG/KG	8730	J	10200	J	1020	J	3060	J	21200	J
Organic Carbon	MG/KG	15400	J	17900	J	3190	J	2050	J	11300	J
Organic Carbon	MG/KG	5650	J	13000	J	847	J	2450	J	17700	J
Organic Carbon	MG/KG	19100	J	15500	J	1590	J	3210	J	14500	J

APPENDIX F.2 TABLE OF ALL VALIDATED ANALYTICAL DATA FOR SOIL
OPERABLE UNIT 5, AOC 7

MOUND OPERATIONAL AREA											
		B04002		B04102		B05001		B05002		B06001	
		620704 REG		620710 REG		620716 REG		620722 REG		628713 REG	
		6/22/94		06/22/94DUPE		6/22/94		6/22/94		7/22/94	
		Result	Val	Result	Val	Result	Val	Result	Val	Result	Val
Total Organic Carbon	Units										
Organic Carbon	MG/KG	1680	J	1060	J	5840	J	5630	J	12100	
Organic Carbon	MG/KG	2620	J	1230	J	9570	J	2400	J	8760	
Organic Carbon	MG/KG	969	J	3900	J	13400	J	1860	J	13500	
Organic Carbon	MG/KG	460	J	1250	J	10600	J	1630	J	21400	

		B06002		B06003		B07001		B07002		B07003	
		628728 REG		628738 REG		621722 REG		621742 REG		622330 REG	
		7/22/94		7/22/94		6/28/94		6/28/94		6/28/94	
		Result	Val	Result	Val	Result	Val	Result	Val	Result	Val
Total Organic Carbon	Units										
Organic Carbon	MG/KG	3730		4800		2560	J	30600		4530	
Organic Carbon	MG/KG	2560		3260		4550	J	28600		6030	
Organic Carbon	MG/KG	3060		3470		5660	J	32000		3870	
Organic Carbon	MG/KG	2530		7350		5620	J	14200		2720	

		B07004		B07101		B08001		B08002		B08003	
		622361 REG		621751 REG		625922 REG		625931 REG		625937 REG	
		6/29/94		06/28/94DUPE		7/14/94		7/14/94		7/14/94	
		Result	Val	Result	Val	Result	Val	Result	Val	Result	Val
Total Organic Carbon	Units										
Organic Carbon	MG/KG	15400		7920		3870	J	4470	J	6130	J
Organic Carbon	MG/KG	7980		5240		7850	J	5910	J	1380	J
Organic Carbon	MG/KG	14600		8320		3000	J	3740	J	7470	J
Organic Carbon	MG/KG	8870		2930		4800	J	3250	J	2510	J

APPENDIX F.2 TABLE OF ALL VALIDATED ANALYTICAL DATA FOR SOIL
OPERABLE UNIT 5, AOC 7

MOUND OPERATIONAL AREA											
		B09001		B09002		B09003		B09004		B09005	
		626906 REG		626921 REG		626947 REG		626960 REG		626966 REG	
		7/19/94		7/19/94		7/19/94		7/19/94		7/19/94	
		Result	Val	Result	Val	Result	Val	Result	Val	Result	Val
Total Organic Carbon	Units										
Organic Carbon	MG/KG	17500	J	3360	J	4320	J	6180	J	12800	J
Organic Carbon	MG/KG	21900	J	3280	J	4260	J	6260	J	12600	J
Organic Carbon	MG/KG	12800	J	2690	J	3810	J	7570	J	14300	J
Organic Carbon	MG/KG	15800	J	1600	J	4280	J	6930	J	17700	J

		B09102		B10001		B10002		B10003		B11001	
		626978 REG		627673 REG		627637 REG		627643 REG		628164 REG	
		07/19/94DUPE		7/20/94		7/20/94		7/20/94		7/21/94	
		Result	Val	Result	Val	Result	Val	Result	Val	Result	Val
Total Organic Carbon	Units										
Organic Carbon	MG/KG	5340	J	6130	J	3810	J	1370	J	25700	J
Organic Carbon	MG/KG	9210	J	6330	J	2660	J	1950	J	29800	J
Organic Carbon	MG/KG	8980	J	1040	J	2260	J	1880	J	28200	J
Organic Carbon	MG/KG	7680	J	8360	J	2960	J	3310	J	20900	J

		B11002		B11003		B11004		B11102		B12001	
		628180 REG		628188 REG		628196 REG		628172 REG		627649 REG	
		7/21/94		7/21/94		7/21/94		07/21/94DUPE		7/20/94	
		Result	Val	Result	Val	Result	Val	Result	Val	Result	Val
Total Organic Carbon	Units										
Organic Carbon	MG/KG	14900	J	2850	J	3010	J	15200	J	10300	J
Organic Carbon	MG/KG	11500	J	2150	J	2050	J	17500	J	12800	J
Organic Carbon	MG/KG	17600	J	4280	J	1880	J	13900	J	14900	J
Organic Carbon	MG/KG	14700	J	3960	J	4020	J	11100	J	12900	J

APPENDIX F.2 TABLE OF ALL VALIDATED ANALYTICAL DATA FOR SOIL
OPERABLE UNIT 5, AOC 7

MOUND OPERATIONAL AREA											
		B12002		B12003		B13001		B13002		B13003	
		627685 REG		627659 REG		623064 REG		623082 REG		623099 REG	
		7/20/94		7/20/94		7/5/94		7/5/94		7/5/94	
		Result	Val	Result	Val	Result	Val	Result	Val	Result	Val
Total Organic Carbon	Units										
Organic Carbon	MG/KG	9650	J	1120	J	13600		1650	J	15600	J
Organic Carbon	MG/KG	12000	J	7870	J	24200		9790	J	1630	J
Organic Carbon	MG/KG	11500	J	6940	J	15800		2460	J	2640	J
Organic Carbon	MG/KG	12500	J	8770	J	11400		4450	J	5970	J

		B13004		B13005		B14001		B14002		B14004	
		623115 REG		623141 REG		623897 REG		623913 REG		624388 REG	
		7/5/94		7/5/94		7/7/94		7/7/94		7/8/94	
		Result	Val	Result	Val	Result	Val	Result	Val	Result	Val
Total Organic Carbon	Units										
Organic Carbon	MG/KG	3990		5560		5400		8220		8640	J
Organic Carbon	MG/KG	3310		3890		6770		4730		12500	J
Organic Carbon	MG/KG	6970		2220		3400		4490		12200	J
Organic Carbon	MG/KG	3160		2430		6820		6680		7930	J

		B14104		B15001		B15002		B15003		B15004	
		624380 REG		629813 REG		629829 REG		629837 REG		629845 REG	
		07/08/94DUPE		7/27/94		7/27/94		7/27/94		7/27/94	
		Result	Val	Result	Val	Result	Val	Result	Val	Result	Val
Total Organic Carbon	Units										
Organic Carbon	MG/KG	6690	J	5790		2810		7200		3680	
Organic Carbon	MG/KG	4590	J	8410		2170		7310		4230	
Organic Carbon	MG/KG	5090	J	8580		2630		4760		3450	
Organic Carbon	MG/KG	7790	J	3630		3930		8500		3950	

APPENDIX F.2 TABLE OF ALL VALIDATED ANALYTICAL DATA FOR SOIL
OPERABLE UNIT 5, AOC 7

MOUND OPERATIONAL AREA											
		B15101		B15104							
		629821 REG		629853 REG							
		07/27/94DUPE		07/27/94DUPE							
		Result	Val	Result	Val						
Total Organic Carbon	Units										
Organic Carbon	MG/KG	6480		4020							
Organic Carbon	MG/KG	6600		3470							
Organic Carbon	MG/KG	3840		2350							
Organic Carbon	MG/KG	4070		3160							

APPENDIX F.2 TABLE OF ALL VALIDATED ANALYTICAL DATA FOR SOIL
OPERABLE UNIT 5, AOC 7

MOUND OPERATIONAL AREA		B01001		B01002		B01003		B01004		B01005	
		SOIL 62041 REG		SOIL 62041 REG		SOIL 62047 REG		SOIL 62048 REG		SOIL 62048 REG	
		6/20/94		6/20/94		6/20/94		6/20/94		6/20/94	
		Result	Val	Result	Val	Result	Val	Result	Val	Result	Val
Inorganics	Units										
Aluminum	MG/KG	7800	J	10700	J	16500	J	5460	J	2950	J
Antimony	MG/KG	2.1	J	2.8	J	3.1	J	3	J	3.1	J
Arsenic	MG/KG	8	J	4.6	J	3.6	J	7.9	J	5.5	J
Barium	MG/KG	50.9	J	37.5	J	44	J	32.7	J	29.5	J
Beryllium	MG/KG	0.38		0.54		0.8		0.31		0.16	
Bismuth	MG/KG	141		14.3		14.8		3.5	U	3.4	U
Cadmium	MG/KG	0.22	J	0.19	UJ	0.21	UJ	0.19	UJ	0.18	UJ
Calcium	MG/KG	69600		144000		57200		106000		63200	
Chromium	MG/KG	10.1	J	11.9	J	18	J	8.4	J	4.7	J
Cobalt	MG/KG	5.5	J	7.8	J	12.6	J	5	J	3.7	J
Copper	MG/KG	13		31.4		15.8		11.1		8.7	
Cyanide	MG/KG	0.55	UJ	0.56	UJ	0.6	UJ	0.56	UJ	0.54	UJ
Iron	MG/KG	12000	J	15700	J	24100	J	10400	J	7300	J
Lead	MG/KG	9.8	J	13.7	J	6.5	J	10.2	J	5.6	J
Lithium	MG/KG	10.5	J							8.7	J
Magnesium	MG/KG	35600	J	12500	J	10700	J	39300	J	50600	J
Manganese	MG/KG	367	J	642	J	644	J	215	J	203	J
Mercury	MG/KG	0.11	U	0.31		0.12	U	0.11	U	0.11	U
Molybdenum	MG/KG	2	J							1.2	R
Nickel	MG/KG	11.4		13.7		22.6		11.5		8.1	
Potassium	MG/KG	1090	J	2430	J	3690	J	1330	J	788	J
Selenium	MG/KG	0.86	U	0.87	UJ	0.94	UJ	0.87	UJ	0.85	U
Silver	MG/KG	0.22	U	0.22	U	0.24	U	0.22	U	0.22	U
Sodium	MG/KG	170		206		297		224		152	
Thallium	MG/KG	0.79	UJ	0.8	UJ	0.87	UJ	0.8	UJ	0.78	UJ
Tin	MG/KG	2.6	U	2.6	U	2.8	U	2.6	U	2.6	U
Vanadium	MG/KG	16.6	J	14.2	J	20.4	J	12.3	J	7	J
Zinc	MG/KG	44.6	J	40.5	J	52.5	J	34.6	J	23.8	J

APPENDIX F.2 TABLE OF ALL VALIDATED ANALYTICAL DATA FOR SOIL
OPERABLE UNIT 5, AOC 7

MOUND OPERATIONAL AREA											
		B01006		B01007		B02001		B02002		B03001	
		SOIL 62048 REG		SOIL 62019 REG		SOIL 62021 REG		SOIL 62023 REG		SOIL 62097 REG	
		6/20/94		6/20/94		6/21/94		6/21/94		6/23/94	
		Result	Val	Result	Val	Result	Val	Result	Val	Result	Val
Inorganics	Units										
Aluminum	MG/KG	4010	J	5470	J	2440	J	14400	J	2760	J
Antimony	MG/KG	2.6	J	3.1	J	2.6	J	2.3	J	3	J
Arsenic	MG/KG	6.7	J	6.9	J	4.2	J	3.5	J	4.2	J
Barium	MG/KG	40	J	34.1	J	11.7	J	17.2	J	22	J
Beryllium	MG/KG	0.23		0.32		0.12		0.69		0.14	
Bismuth	MG/KG	3.4	U	3.5	U	3.4	U	11.2		3.2	U
Cadmium	MG/KG	0.19	UJ	0.19	UJ	0.18	UJ	0.2	UJ	0.18	UJ
Calcium	MG/KG	95700		108000		171000		40300		151000	
Chromium	MG/KG	6.2	J	8.8	J	4.2	J	17.1	J	11.5	J
Cobalt	MG/KG	4.9	J	5.5	J	1.9	J	13.9	J	2.6	J
Copper	MG/KG	11.5		11.6		4.4		21.2		6.8	
Cyanide	MG/KG	0.55	UJ	0.56	UJ	0.54	UJ	0.58	UJ	0.52	U
Iron	MG/KG	9800	J	10900	J	4870	J	25200	J	6110	J
Lead	MG/KG	5.7	J	6.8	J	5	J	5.7	J	8.8	J
Lithium	MG/KG					5.2	U			6.4	J
Magnesium	MG/KG	40200	J	37800	J	89900	J	15000	J	60300	J
Manganese	MG/KG	225	J	230	J	163	J	536	J	219	J
Mercury	MG/KG	0.11	U	0.11	U	0.11	U	0.12	U	0.1	U
Molybdenum	MG/KG					1.2	R			1.2	R
Nickel	MG/KG	12.2		13.2		4.3		24		9.3	
Potassium	MG/KG	918	J	1500	J	701	J	3290	J	694	J
Selenium	MG/KG	0.86	U	0.87	UJ	8.5	UJ	0.91	UJ	0.81	UJ
Silver	MG/KG	0.22	U	0.22	U	0.22	U	0.23	U	0.21	U
Sodium	MG/KG	142		161		369		351		260	
Thallium	MG/KG	0.79	UJ	0.8	UJ	0.78	UJ	0.84	UJ	0.75	UJ
Tin	MG/KG	2.6	U	2.6	U	2.5	U	2.7	U	2.4	U
Vanadium	MG/KG	8.6	J	10.9	J	6.1	J	16.1	J	14.3	J
Zinc	MG/KG	31.3	J	33.3	J	12	J	54.9	J	17.6	J

APPENDIX F.2 TABLE OF ALL VALIDATED ANALYTICAL DATA FOR SOIL
OPERABLE UNIT 5, AOC 7

MOUND OPERATIONAL AREA											
		B03002		B03003		B03004		B03005		B04001	
		SOIL 62098 REG		SOIL 62098 REG		SOIL 62098 REG		SOIL 62143 REG		SOIL 62068 REG	
		6/23/94		6/23/94		6/23/94		6/27/94		6/22/94	
		Result	Val	Result	Val	Result	Val	Result	Val	Result	Val
Inorganics	Units										
Aluminum	MG/KG	7340	J	12200	J	10600	J	11600	J	6510	J
Antimony	MG/KG	2.8	J	2.3	J	3	J	2.7	J	2.1	J
Arsenic	MG/KG	7.5	J	21.5		2.6	J	9.9	J	11.5	J
Barium	MG/KG	39.7	J	19	J	19.1	J	61.5	J	46.4	J
Beryllium	MG/KG	0.37		0.63		0.53		0.54		0.35	
Bismuth	MG/KG	3.5	U	9.6		10.1		8.5		3.5	U
Cadmium	MG/KG	0.19	UJ	0.2	UJ	0.22	UJ	0.2	UJ	0.19	UJ
Calcium	MG/KG	106000		89900		121000		39600		171000	
Chromium	MG/KG	9.9	J	13.9	J	12.2	J	13	J	8.7	J
Cobalt	MG/KG	5.8	J	10.8	J	9.5	J	7.6	J	5.7	J
Copper	MG/KG	12.1		10.1		11.5		17.4		13	
Cyanide	MG/KG	0.56	U	0.59	U	0.63	U	0.58	U	0.55	UJ
Iron	MG/KG	12400	J	20800	J	18500	J	19400	J	11600	J
Lead	MG/KG	15.8	J	6.1	J	5.9	J	9.6	J	11.9	J
Lithium	MG/KG									11.2	J
Magnesium	MG/KG	36100	J	15500	J	13900	J	19600	J	27600	J
Manganese	MG/KG	317	J	394	J	420	J	405	J	401	J
Mercury	MG/KG	0.11	U	0.12	U	0.13	U	0.12	U	0.11	U
Molybdenum	MG/KG									3.6	J
Nickel	MG/KG	12.1		19.5		17.7		18.5		11	
Potassium	MG/KG	1230	J	3080	J	2640	J	1340	J	1030	J
Selenium	MG/KG	0.88	UJ	0.93	UJ	0.99	UJ	0.9	UJ	0.86	UJ
Silver	MG/KG	0.23	U	0.24	U	0.25	U	0.23	U	0.22	U
Sodium	MG/KG	346		206		276		253		205	
Thallium	MG/KG	0.81	UJ	0.85	UJ	0.91	UJ	0.83	UJ	0.8	UJ
Tin	MG/KG	2.6	U	2.8	U	3	U	2.7	U	2.6	U
Vanadium	MG/KG	15.3	J	13.5	J	11.7	J	21.2	J	12.2	J
Zinc	MG/KG	37.2	J	44.4	J	38.2	J	46.1	J	37.3	J

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OPERABLE UNIT 5, AOC 7

MOUND OPERATIONAL AREA											
		B04002		B04102		B05001		B05002		B06001	
		SOIL 62068 REG		SOIL 62069 REG		SOIL 62069 REG		SOIL 62069 REG		SOIL 62869 REG	
		6/22/94		06/22/94DUPE		6/22/94		6/22/94		7/22/94	
		Result	Val	Result	Val	Result	Val	Result	Val	Result	Val
Inorganics	Units										
Aluminum	MG/KG	12700	J	14800	J	15500	J	14100	J	9410	J
Antimony	MG/KG	2.2	J	3.5	J	2.6	J	1.7	R	0.06	R
Arsenic	MG/KG	4.5	J	26.6		6.9	J	3.2	J	3.4	J
Barium	MG/KG	44.6	J	22	J	82.1	J	15.6	J	36.2	J
Beryllium	MG/KG	0.63		0.73		0.8		0.69		0.43	J
Bismuth	MG/KG	10.7		12		10.5		10.5		33	
Cadmium	MG/KG	0.2	UJ	0.2	UJ	0.2	UJ	0.19	UJ	0.77	R
Calcium	MG/KG	57600	J	69800		43200		44100		46400	J
Chromium	MG/KG	15.4	J	16.4	J	16.4	J	16.3	J	10.5	R
Cobalt	MG/KG	11.9		13.6	J	12	J	12.6	J	7.5	R
Copper	MG/KG	17.2		20.5		17		17.2		13.6	R
Cyanide	MG/KG	0.58	UJ	0.6	UJ	0.6	UJ	0.57	UJ	0.57	U
Iron	MG/KG	21500	J	24500	J	23400	J	24300	J	15900	J
Lead	MG/KG	15.4	J	8.2	J	14.8	J	6.8	J	6.6	J
Lithium	MG/KG					20.1	J			19.3	
Magnesium	MG/KG	7540	J	13600	J	8870	J	14300	J	14000	J
Manganese	MG/KG	572	J	588	J	756	J	557	J	405	J
Mercury	MG/KG	0.12	U	0.12	U	0.12	U	0.11	U	0.46	J
Molybdenum	MG/KG					4.9	J			9	J
Nickel	MG/KG	22.9		23.1		20.5		24.3		14.9	R
Potassium	MG/KG	1560	J	3100	J	2070	J	3010	J	1850	
Selenium	MG/KG	0.91	UJ	0.93	UJ	0.93	UJ	0.89	UJ	0.17	UJ
Silver	MG/KG	0.23	U	0.24	U	0.24	U	0.23	U	0.06	U
Sodium	MG/KG	208		185		113		151		398	U
Thallium	MG/KG	0.84	UJ	0.86	UJ	0.86	UJ	0.82	UJ	0.17	R
Tin	MG/KG	2.7	U	2.8	U	2.8	U	2.7	U	3.5	
Vanadium	MG/KG	15.1	J	17	J	25.1	J	15.9	J	13.3	R
Zinc	MG/KG	50.8	J	48.5	J	52.7	J	50.4	J	36.4	J

APPENDIX F.2 TABLE OF ALL VALIDATED ANALYTICAL DATA FOR SOIL
OPERABLE UNIT 5, AOC 7

MOUND OPERATIONAL AREA		B06002		B06003		B07001		B07002		B07003	
		SOIL 62872 REG		SOIL 62873 REG		SOIL 62171 REG		SOIL 62171 REG		SOIL 62232 REG	
		7/22/94		7/22/94		6/28/94		6/28/94		6/28/94	
		Result	Val	Result	Val	Result	Val	Result	Val	Result	Val
Inorganics	Units										
Aluminum	MG/KG	11200	J	9900	J	8890	J	8070	J	10500	J
Antimony	MG/KG	0.06	R	0.06	R	3.2	J	2.4	J	2.5	J
Arsenic	MG/KG	1.5	J	2.9	J	4.4	J	6.9	J	3.1	J
Barium	MG/KG	16.8	J	14.7	J	46	J	45.7	J	48.8	J
Beryllium	MG/KG	0.52	J	0.46	J	0.48		0.4		0.52	
Bismuth	MG/KG	27		30.3		7.7		21.4		20.9	
Cadmium	MG/KG	0.72	R	0.95	R	0.2	UJ	0.2	UJ	0.2	UJ
Calcium	MG/KG	42700	J	60400	J	97700		157000	J	110000	J
Chromium	MG/KG	12.7	R	11.8	R	10.8	J	9.2	J	11.3	J
Cobalt	MG/KG	7.6	R	9.1	R	7.3	J	6.2		7.3	
Copper	MG/KG	13	R	19.4	R	13.9		8.4	J	10.1	J
Cyanide	MG/KG	0.58	U	0.57	U	0.58	U	0.59	U	0.58	U
Iron	MG/KG	18400	J	18700	J	14600	J	14600	J	18200	J
Lead	MG/KG	2.4	J	7.2	J	12.9	J	12.3		8.4	
Lithium	MG/KG					16.4	J	15.2	J		
Magnesium	MG/KG	8920	J	6930	J	22700	J	17800		10800	
Manganese	MG/KG	400	J	684	J	373	J	506	J	309	J
Mercury	MG/KG	0.39		0.31		0.12	U	0.12	U	0.12	U
Molybdenum	MG/KG					3.8	J	1.4	U		
Nickel	MG/KG	18.2	R	18.8	R	14		11.9		15.1	
Potassium	MG/KG	3090		3190		1650	J	1370	J	2120	J
Selenium	MG/KG	0.17	UJ	0.17	UJ	0.9	UJ	0.93		0.91	U
Silver	MG/KG	0.06	U	0.06	U	0.23	U	0.69	J	0.5	J
Sodium	MG/KG	209	U	313	U	363		177		185	
Thallium	MG/KG	0.17	R	0.17	R	0.83	UJ	4.3	UJ	4.2	UJ
Tin	MG/KG	4.6		2.7	U	2.7	U	2.8	U	2.7	U
Vanadium	MG/KG	11.6	R	11.1	R	14.5	J	12.7	J	13.9	J
Zinc	MG/KG	42.9	J	38	J	42.8	J	33.2	J	38.6	J

APPENDIX F.2 TABLE OF ALL VALIDATED ANALYTICAL DATA FOR SOIL
OPERABLE UNIT 5, AOC 7

MOUND OPERATIONAL AREA											
		B07004		B07101		B08001		B08002		B08003	
		622338 REG		SOIL 62171 REG		SOIL 62589 REG		SOIL 62590 REG		SOIL 62590 REG	
		6/29/94		06/28/94DUPE		7/14/94		7/14/94		7/14/94	
		Result	Val	Result	Val	Result	Val	Result	Val	Result	Val
Inorganics	Units										
Aluminum	MG/KG	12500		9350	J	5630	J	12700	J	11900	J
Antimony	MG/KG	2.6	J	3.3	J	0.09	U	0.06	R	0.06	R
Arsenic	MG/KG	19.7		5.2	J	2.5		2.1		2.6	
Barium	MG/KG	43.5	J	58.4	J	12.2		30.5		36.8	
Beryllium	MG/KG	0.56		0.43		0.28	J	0.61	J	0.54	J
Bismuth	MG/KG	16.2	J	15.8		0.88	J	0.12	R	0.12	R
Cadmium	MG/KG	0.2	UJ	0.19	UJ	0.26	J	0.21	J	0.21	J
Calcium	MG/KG	79200	J	90100	J	245000	J	121000	J	165000	J
Chromium	MG/KG	14.1	J	11.5	J	6.8	J	13.9	J	14.9	J
Cobalt	MG/KG	9.3		6.8		4.7	J	8.1	J	7.2	J
Copper	MG/KG	17.1		13.3	J	3.1	J	1.6	J	3.6	J
Cyanide	MG/KG	0.6	U	0.57	U	0.56	U	0.6	U	0.6	U
Iron	MG/KG	17800		14100	J	9650	J	18000	J	17000	J
Lead	MG/KG	13		9.8	J	4.6	J	6.4	J	6	J
Lithium	MG/KG			16.9	J	19.3	J				
Magnesium	MG/KG	17000		24500		17100	J	7930	J	6620	J
Manganese	MG/KG	437		347	J	495	J	428	J	584	J
Mercury	MG/KG	0.12	U	0.11	U	0.11	U	0.12	U	0.12	U
Molybdenum	MG/KG			1.3	U	0.2	J				
Nickel	MG/KG	19.4	J	13.9		7.3	J	11.9	J	10.7	J
Potassium	MG/KG	2820		1810	J	3030	J	4510	J	4800	J
Selenium	MG/KG	0.93	U	0.89	U	0.17	U	0.18	U	0.18	U
Silver	MG/KG	0.24	U	0.53	J	0.06	U	0.06	U	0.06	U
Sodium	MG/KG	194		349		239		169		175	
Thallium	MG/KG	0.86	UJ	4.1	UJ	0.45	U	0.61	U	0.62	U
Tin	MG/KG	2.8	UJ	2.7	U	2.6	U	3.8		2.8	U
Vanadium	MG/KG	18	J	16.6	J	9.4	J	13.9	J	14.2	J
Zinc	MG/KG	51.9		45.9	J	22.7		42.5		36.3	

APPENDIX F.2 TABLE OF ALL VALIDATED ANALYTICAL DATA FOR SOIL
OPERABLE UNIT 5, AOC 7

MOUND OPERATIONAL AREA											
		B09001		B09002		B09003		B09004		B09005	
		SOIL 62687 REG		SOIL 62687 REG		SOIL 62688 REG		SOIL 62689 REG		SOIL 62689 REG	
		7/19/94		7/19/94		7/19/94		7/19/94		7/19/94	
		Result	Val	Result	Val	Result	Val	Result	Val	Result	Val
Inorganics	Units										
Aluminum	MG/KG	7480	J	9190	J	17700	J	5510	J	6730	J
Antimony	MG/KG	0.06	U	0.06	R	0.06	R	0.06	R	0.06	R
Arsenic	MG/KG	2.9		2.2		4.2		4.8		4.1	
Barium	MG/KG	26.8		18.5		79.8		21.2		25.7	
Beryllium	MG/KG	0.35	J	0.42	J	0.7	J	0.28	J	0.33	J
Bismuth	MG/KG	0.46	J	0.12	R	0.13	R	0.12	R	0.12	R
Cadmium	MG/KG	0.32	J	0.22	J	0.07	J	0.24	J	0.2	J
Calcium	MG/KG	166000	J	128000	J	57000	J	114000	J	129000	J
Chromium	MG/KG	10.6	J	11.7	J	17.8	J	7.1	J	8.4	J
Cobalt	MG/KG	4.5	J	7.6	J	7.9	J	4.6	J	5.3	J
Copper	MG/KG	3.8	J	3	J	5.2	J	4.8	J	4.7	J
Cyanide	MG/KG	0.56	U	0.59	U	0.63	U	0.58	U	0.58	U
Iron	MG/KG	10600	J	16200	J	19600	J	11000	J	12000	J
Lead	MG/KG	6.1	J	5.9	J	11.1	J	5.9	J	6	J
Lithium	MG/KG	21.1	J								
Magnesium	MG/KG	45900	J	15500	J	4470	J	37900	J	26400	J
Manganese	MG/KG	326	J	380	J	239	J	397	J	294	J
Mercury	MG/KG	0.11	U	0.12	U	0.13	U	0.12	U	0.12	U
Molybdenum	MG/KG	0.19	J								
Nickel	MG/KG	7.6	J	12.1	J	12.4	J	8.1	J	9.9	J
Potassium	MG/KG	3930	J	3040	J	3530	J	1940	J	2820	J
Selenium	MG/KG	0.17	U	0.18	U	0.19	U	0.17	U	0.18	U
Silver	MG/KG	0.06	U	0.06	U	0.06	U	0.06	U	0.06	U
Sodium	MG/KG	351		198		153		282		219	
Thallium	MG/KG	0.6	U	0.67	U	0.96	U	0.66	U	0.59	U
Tin	MG/KG	2.6	U	2.8	U	6.1		2.7	U	3.1	
Vanadium	MG/KG	10.9	J	10.6	J	25.1	J	10.5	J	10.2	J
Zinc	MG/KG	27.4		40.4		52.7		32.1		34.6	

APPENDIX F.2 TABLE OF ALL VALIDATED ANALYTICAL DATA FOR SOIL
OPERABLE UNIT 5, AOC 7

MOUND OPERATIONAL AREA											
		B09102		B10001		B10002		B10003		B11001	
		SOIL 62689 REG		SOIL 62763 REG		SOIL 62762 REG		SOIL 62762 REG		SOIL 62815 REG	
		07/19/94DUPE		7/20/94		7/20/94		7/20/94		7/21/94	
		Result	Val	Result	Val	Result	Val	Result	Val	Result	Val
Inorganics	Units										
Aluminum	MG/KG	9740	J	15500	J	10800	J	14500	J	8120	J
Antimony	MG/KG	0.06	R	0.06	U	0.05	R	0.06	R	0.06	R
Arsenic	MG/KG	2.1		2.8		2.2		3		4	
Barium	MG/KG	21		39.1		14.7		20.5		35.4	
Beryllium	MG/KG	0.47	J	0.67	J	0.49	J	0.65	J	0.38	J
Bismuth	MG/KG	0.12	R	0.12	R	0.1	R	0.11	R	0.12	R
Cadmium	MG/KG	0.07	J	0.2	J	0.11	J	0.06	UJ	0.24	J
Calcium	MG/KG	132000	J	97400	J	88000	J	41500	J	114000	J
Chromium	MG/KG	11.3	J	16.4	J	12.2	J	18	J	10.1	J
Cobalt	MG/KG	7.1	J	8.8	J	7.6	J	12.3	J	6.1	J
Copper	MG/KG	2.5	J	5.3	J	6.1	J	4.7	J	6.2	J
Cyanide	MG/KG	0.59	U	0.58	U	0.5	U	0.57	U	0.58	U
Iron	MG/KG	16200	J	22500	J	15400	J	22100	J	13900	J
Lead	MG/KG	6.1	J	7	J	3.9	J	4.1	J	9	J
Lithium	MG/KG			32.7	J					20.8	J
Magnesium	MG/KG	8760	J	12000	J	12200	J	9310	J	25900	J
Manganese	MG/KG	362	J	407	J	426	J	466	J	385	J
Mercury	MG/KG	0.12	U	0.12	U	0.1	U	0.11	U	0.12	U
Molybdenum	MG/KG			0.06	UJ					0.48	J
Nickel	MG/KG	11.1	J	13.4	J	11.6	J	19	J	10.4	J
Potassium	MG/KG	3520	J	4990	J	3880	J	4070	J	2310	J
Selenium	MG/KG	0.18	U	0.17	U	0.15	U	0.17	U	0.17	U
Silver	MG/KG	0.06	U	0.06	U	0.05	U	0.06	U	0.33	
Sodium	MG/KG	197		209		161		196		370	
Thallium	MG/KG	0.56	U	0.61	U	0.69	U	0.83	U	0.56	U
Tin	MG/KG	2.8	U	6.3		4.5		2.8		2.7	U
Vanadium	MG/KG	10.8	J	18.5	J	12.2	J	14.8	J	13.7	J
Zinc	MG/KG	38.1		48.3		35.6		52.6		40.2	

APPENDIX F.2 TABLE OF ALL VALIDATED ANALYTICAL DATA FOR SOIL
OPERABLE UNIT 5, AOC 7

MOUND OPERATIONAL AREA		B11002		B11003		B11004		B11102		B12001	
		SOIL 62817 REG		SOIL 62818 REG		SOIL 62819 REG		SOIL 62816 REG		SOIL 62762 REG	
		7/21/94		7/21/94		7/21/94		07/21/94DUPE		7/20/94	
		Result	Val	Result	Val	Result	Val	Result	Val	Result	Val
Inorganics	Units										
Aluminum	MG/KG	15000	J	10600	J	14900	J	14700	J	2340	J
Antimony	MG/KG	0.06	R	0.06	R	0.06	R	0.06	R	0.1	U
Arsenic	MG/KG	3.8		8.3		4.3		3.8		6.4	
Barium	MG/KG	44.6		51.8		8.8		43.7		49	
Beryllium	MG/KG	0.65	J	0.5	J	0.67	J	0.65	J	0.13	J
Bismuth	MG/KG	0.12	R	0.12	R	0.12	R	0.12	R	0.52	J
Cadmium	MG/KG	0.24	J	0.15	J	0.06	UJ	0.06	UJ	0.24	J
Calcium	MG/KG	94500	J	61500	J	41400	J	67400	J	148000	J
Chromium	MG/KG	17.7	J	13.2	J	19.3	J	16.5	J	6.9	J
Cobalt	MG/KG	8.8	J	7.7	J	13.7	J	9.6	J	2.1	J
Copper	MG/KG	4.7	J	8	J	6.8	J	5.6	J	3.8	J
Cyanide	MG/KG	0.59	U	0.58	U	0.62	U	0.58	U	0.53	U
Iron	MG/KG	24100	J	19200	J	26100	J	24500	J	5570	J
Lead	MG/KG	7.9	J	11.5	J	6.5	J	7.2	J	6.2	J
Lithium	MG/KG									9.2	U
Magnesium	MG/KG	11200	J	11000	J	9690	J	8430	J	51700	J
Manganese	MG/KG	459	J	361	J	443	J	429	J	348	J
Mercury	MG/KG	0.12	U	0.12	U	0.12	U	0.12	U	0.11	U
Molybdenum	MG/KG									1.5	J
Nickel	MG/KG	13.9	J	13.4	J	21.3	J	14.1	J	5.6	J
Potassium	MG/KG	4230	J	1620	J	3570	J	3590	J	940	J
Selenium	MG/KG	0.18	U	0.17	U	0.18	U	0.17	U	0.16	U
Silver	MG/KG	0.06	U	0.13		0.06	U	0.06	U	0.05	U
Sodium	MG/KG	186		778		815		193		705	
Thallium	MG/KG	0.7	U	0.78	U	0.88	U	0.84	U	0.54	U
Tin	MG/KG	5.2		2.7	U	2.9	U	4.7		2.5	U
Vanadium	MG/KG	19.4	J	17.4	J	15	J	17.6	J	7	J
Zinc	MG/KG	49.9		53.1		61.9		49.6		16.8	

APPENDIX F.2 TABLE OF ALL VALIDATED ANALYTICAL DATA FOR SOIL
OPERABLE UNIT 5, AOC 7

MOUND OPERATIONAL AREA		B12002		B12003		B13001		B13002		B13003	
		SOIL 62763 REG		SOIL 62762 REG		SOIL 62305 REG		SOIL 62306 REG		SOIL 62308 REG	
		7/20/94		7/20/94		7/5/94		7/5/94		7/5/94	
		Result	Val	Result	Val	Result	Val	Result	Val	Result	Val
Inorganics	Units										
Aluminum	MG/KG	15000	J	14800	J	4320	J	233000	J	197000	J
Antimony	MG/KG	0.06	R	0.06	R	3.1	J	2.3	J	2.3	J
Arsenic	MG/KG	2.6		3.7		3.9	J	4.3	J	2.4	J
Barium	MG/KG	34.9		18.7		27.5	J	17	J	18.5	J
Beryllium	MG/KG	0.67	J	0.66	J	0.21		0.49		0.45	
Bismuth	MG/KG	0.12	R	0.12	R	3.4	U	21.5		21.4	
Cadmium	MG/KG	0.07	J	0.06	UJ	0.18	UJ	0.2	UJ	0.2	UJ
Calcium	MG/KG	90900	J	36200	J	141000	J	79500	J	142000	J
Chromium	MG/KG	16.8	J	18.3	J	8.4	J	12.8	J	9.8	J
Cobalt	MG/KG	10.1	J	10.1	J	3		11.5		6.9	
Copper	MG/KG	4.7	J	8.4	J	27	J	17.9	J	7.9	J
Cyanide	MG/KG	0.61	U	0.58	U	0.54	U	0.59	U	0.59	U
Iron	MG/KG	25100	J	26800	J	7950	J	24500	J	17200	J
Lead	MG/KG	5.5	J	5.8	J	14.3	J	5.2		4.1	
Lithium	MG/KG					8.1	J				
Magnesium	MG/KG	8280	J	8120	J	77200		12900		19200	
Manganese	MG/KG	479	J	378	J	244	J	520	J	363	J
Mercury	MG/KG	0.12	U	0.12	U	0.11	U	0.12	U	0.12	U
Molybdenum	MG/KG					1.2	U				
Nickel	MG/KG	15.1	J	17.8	J	7.3		20.2		12.7	
Potassium	MG/KG	4690	J	3530	J	928	J	2330	J	2680	J
Selenium	MG/KG	0.18	U	0.17	U	0.85	U	0.92	U	0.92	U
Silver	MG/KG	0.06	U	0.06	U	0.79	J	0.34	J	0.43	J
Sodium	MG/KG	199		175		262		195		181	
Thallium	MG/KG	0.68	U	0.71	U	0.78	UJ	8.5	UJ	8.5	UJ
Tin	MG/KG	5		4.9		2.6	U	2.8	U	2.8	U
Vanadium	MG/KG	16.4	J	16	J	11.3	J	13.3	J	10.5	J
Zinc	MG/KG	47.3		53.8		43.5	J	44.2	J	32.3	J

APPENDIX F.2 TABLE OF ALL VALIDATED ANALYTICAL DATA FOR SOIL
OPERABLE UNIT 5, AOC 7

MOUND OPERATIONAL AREA											
		B13004		B13005		B14001		B14002		B14004	
		SOIL 62310 REG		SOIL 62312 REG		SOIL 62386 REG		SOIL 62390 REG		SOIL 62438 REG	
		7/5/94		7/5/94		7/7/94		7/7/94		7/8/94	
		Result	Val	Result	Val	Result	Val	Result	Val	Result	Val
Inorganics	Units										
Aluminum	MG/KG	283000	J	235000	J	67000	J	211000	J	303000	J
Antimony	MG/KG	1.9	R	3.2	J	2.8	J	2.2	J	4.1	J
Arsenic	MG/KG	6.1	J	7.8	J	2.8	J	3.6	J	6.1	J
Barium	MG/KG	64.4	J	62.9	J	17.5	J	67.3	J	229	J
Beryllium	MG/KG	0.64		0.54		0.2		0.5		0.76	
Bismuth	MG/KG	18.2		20.3		3.5	U	21.9		28.1	
Cadmium	MG/KG	0.21	UJ	0.19	UJ	0.19	UJ	0.19	UJ	1.4	J
Calcium	MG/KG	29000	J	55300	J	185000	J	130000	J	64900	J
Chromium	MG/KG	15	J	13.6	J	5.5	J	11.8	J	29.7	J
Cobalt	MG/KG	9.9		9.6		2.5		8.4		9.4	
Copper	MG/KG	15	J	10.9	J	7.4	J	12.4	J	430	J
Cyanide	MG/KG	0.62	U	0.57	U	0.56	U	0.55	U	0.66	U
Iron	MG/KG	18500	J	19800	J	6740	J	19100	J	24100	J
Lead	MG/KG	15.6	J	8.3		7.7		13.3	J	87	J
Lithium	MG/KG					7.1	J				
Magnesium	MG/KG	7250		23600		66900		12200		10300	J
Manganese	MG/KG	759	J	1460	J	249	J	403	J	404	J
Mercury	MG/KG	0.12	U	0.11	U	0.11	U	0.11	U	2	J
Molybdenum	MG/KG					1.3	U				
Nickel	MG/KG	17		20.6		5.9		16		22	
Potassium	MG/KG	2310	J	2100	J	888	J	2900	J	2290	J
Selenium	MG/KG	0.97	U	0.89	U	0.87	U	0.86	U	1	U
Silver	MG/KG	0.25	J	0.47	J	0.22	J	0.22	J	7.9	J
Sodium	MG/KG	169		255		302		253		658	
Thallium	MG/KG	0.89	UJ	0.82	UJ	0.8	U	0.79	UJ	0.95	UJ
Tin	MG/KG	2.9	U	2.7	U	2.6	U	2.6	U	5.3	
Vanadium	MG/KG	24.9	J	22.4	J	8.2	J	13.5	J	25.2	J
Zinc	MG/KG	53.6	J	44.1	J	23	J	34.5	J	371	J

APPENDIX F.2 TABLE OF ALL VALIDATED ANALYTICAL DATA FOR SOIL
OPERABLE UNIT 5, AOC 7

MOUND OPERATIONAL AREA											
		B14104		B15001		B15002		B15003		B15004	
		SOIL 62437 REG		SOIL 62980 REG		SOIL 62982 REG		SOIL 62983 REG		SOIL 62983 REG	
		07/08/94DUPE		7/27/94		7/27/94		7/27/94		7/27/94	
		Result	Val	Result	Val	Result	Val	Result	Val	Result	Val
Inorganics	Units										
Aluminum	MG/KG	164000	J	9190	J	16400	J	16500	J	22300	J
Antimony	MG/KG	2.9	J	0.15	R	0.14	R	0.41	R	0.3	R
Arsenic	MG/KG	6	J	5.8	J	9.1	J	12	J	14.2	J
Barium	MG/KG	57.3	J	52.4	J	82.9	J	55.1	J	87.1	J
Beryllium	MG/KG	0.4		0.42	J	0.74	J	0.78	J	1.1	J
Bismuth	MG/KG	16.8		31.9		51.6		6.4	U	66.6	
Cadmium	MG/KG	0.2	UJ	1.1	R	1.4	R	0.45	R	1.7	R
Calcium	MG/KG	59700	J	74200	J	106000	J	174000	J	75100	J
Chromium	MG/KG	13.2	J	11.8	R	19.7	R	21.1	R	29.3	R
Cobalt	MG/KG	7.5		7	R	11.9	R	15.4	R	18.5	R
Copper	MG/KG	49.1	J	18.8	R	48	J	29.4	R	39.1	R
Cyanide	MG/KG	0.58	U	0.77	U	1.2	U	1	U	1.2	U
Iron	MG/KG	15400	J	16700	J	27200	J	32500	J	42400	J
Lead	MG/KG	13.7	J	23.6	J	24.5	J	14.2	J	18.3	J
Lithium	MG/KG			18.2							
Magnesium	MG/KG	23400	J	31800	J	36500	J	75800	J	17300	J
Manganese	MG/KG	248	J	423	J	653	J	767	J	1050	J
Mercury	MG/KG	0.41	J	0.28		0.66		0.33		0.54	
Molybdenum	MG/KG			10.8	J						
Nickel	MG/KG	13.7		14.6	R	25.9	R	34	J	43.5	R
Potassium	MG/KG	1220	J	2310		4250		6020		5090	
Selenium	MG/KG	0.91	U	0.23	UJ	0.35	UJ	1.2	UJ	0.37	UJ
Silver	MG/KG	1.9	J	0.1		0.12	U	0.41	U	0.12	U
Sodium	MG/KG	246		295	U	417	U	482	U	423	U
Thallium	MG/KG	0.84	UJ	0.23	R	0.35	R	1.2	R	0.37	R
Tin	MG/KG	2.7	U	3.6	U	6		4.8	U	5.7	U
Vanadium	MG/KG	16.1	J	15.4	R	26.2	R	29.1	R	36.4	R
Zinc	MG/KG	150	J	56	J	90.9	J	74.5	J	97.3	J

APPENDIX F.2 TABLE OF ALL VALIDATED ANALYTICAL DATA FOR SOIL
OPERABLE UNIT 5, AOC 7

MOUND OPERATIONAL AREA		B15101		B15104	
		SOIL 62981 REG		SOIL 62984 REG	
		07/27/94DUPE		07/27/94DUPE	
		Result	Val	Result	Val
Inorganics	Units				
Aluminum	MG/KG	7620	J	19800	J
Antimony	MG/KG	0.13	R	0.13	R
Arsenic	MG/KG	4.8	J	10.8	J
Barium	MG/KG	42.5	J	74.5	J
Beryllium	MG/KG	0.35	J	0.91	J
Bismuth	MG/KG	30.7		74.8	
Cadmium	MG/KG	0.87	R	2	R
Calcium	MG/KG	74900	J	107000	J
Chromium	MG/KG	9.4	R	26.4	R
Cobalt	MG/KG	6.6	R	20.8	R
Copper	MG/KG	16.4	R	36.3	R
Cyanide	MG/KG	0.66	U	1.3	U
Iron	MG/KG	14100	J	42000	J
Lead	MG/KG	16.1	J	17.8	J
Lithium	MG/KG	17.1			
Magnesium	MG/KG	23000	J	22400	J
Manganese	MG/KG	434	J	1180	J
Mercury	MG/KG	0.3		0.6	
Molybdenum	MG/KG	9.2	J		
Nickel	MG/KG	12.9	R	42.2	R
Potassium	MG/KG	2100		4420	
Selenium	MG/KG	0.2	UJ	0.38	UJ
Silver	MG/KG	0.2		0.13	U
Sodium	MG/KG	270	U	542	U
Thallium	MG/KG	0.2	R	0.38	R
Tin	MG/KG	3.1	U	6	U
Vanadium	MG/KG	12.1	R	27.7	R
Zinc	MG/KG	47.1	J	97	J

APPENDIX F.2 TABLE OF ALL VALIDATED ANALYTICAL DATA FOR SOIL
OPERABLE UNIT 5, AOC 7

MOUND OPERATIONAL AREA											
		B01001		B01002		B01003		B01004		B01005	
		619993 REG		620005 REG		620009 REG		620017 REG		620022 REG	
		6/20/94		6/20/94		6/20/94		6/20/94		6/20/94	
		Result	Val	Result	Val	Result	Val	Result	Val	Result	Val
Anions	Units										
Chloride	MG/KG	55.4	J	40.2	J	104	J	83	J	37.5	J
Fluoride	MG/KG	2.33	J	2.6	J	4.85	J	3.03	J	3.27	J
Nitrate-Nitrite-N	MG/KG	1.08	J	16.6	J	44.7	J	42.8	J	23.5	J
Sulfate	MG/KG	208	J	229	J	278	J	321	J	235	J

		B01006		B01007		B02001		B02002		B03001	
		620028 REG		620209 REG		620224 REG		620235 REG		620983 REG	
		6/20/94		6/20/94		6/21/94		6/21/94		6/23/94	
		Result	Val	Result	Val	Result	Val	Result	Val	Result	Val
Anions	Units										
Chloride	MG/KG	3	UJ	3	UJ	153	J	173	J	69.5	
Fluoride	MG/KG	2.49	J	2.97	J	8.32	J	6.15	J	2.64	
Nitrate-Nitrite-N	MG/KG	2.64	J	0.05	UJ	0.05	UJ	6.31	J	0.05	UJ
Sulfate	MG/KG	215	J	121	J	250	J	186	J	67.6	

		B03002		B03003		B03004		B03005		B04001	
		620990 REG		620998 REG		621433 REG		621441 REG		620695 REG	
		6/23/94		6/23/94		6/23/94		6/27/94		6/22/94	
		Result	Val	Result	Val	Result	Val	Result	Val	Result	Val
Anions	Units										
Chloride	MG/KG	80		3	U	128		104		61.6	
Fluoride	MG/KG	4.21		2.75		4.92		2.49		4.09	J
Nitrate-Nitrite-N	MG/KG	0.05	UJ	0.05	UJ	1.18	J	0.05	UJ	0.05	UJ
Sulfate	MG/KG	234		513		158		116		222	J

APPENDIX F.2 TABLE OF ALL VALIDATED ANALYTICAL DATA FOR SOIL
OPERABLE UNIT 5, AOC 7

MOUND OPERATIONAL AREA											
		B04002		B04102		B05001		B05002		B06001	
		620700 REG		620707 REG		620714 REG		620720 REG		628698 REG	
		6/22/94		06/22/94DUPE		6/22/94		6/22/94		7/22/94	
		Result	Val	Result	Val	Result	Val	Result	Val	Result	Val
Anions	Units										
Chloride	MG/KG	69.7		62.2		3	U	54.6		100	J
Fluoride	MG/KG	2.74	J	5.58	J	3.88	J	8.83	J	8.31	
Nitrate-Nitrite-N	MG/KG	26.5	J	0.05	UJ	1.98	J	0.05	UJ	0.522	
Sulfate	MG/KG	159	J	621	J	135	J	275	J	73.1	J

		B06002		B06003		B07001		B07002		B07003	
		628721 REG		628736 REG		621717 REG		621723 REG		622326 REG	
		7/22/94		7/22/94		6/28/94		6/28/94		6/28/94	
		Result	Val	Result	Val	Result	Val	Result	Val	Result	Val
Anions	Units										
Chloride	MG/KG	47.1	J	62	J	282		202	J	117	J
Fluoride	MG/KG	10.3		19.6		1.54		3.44	J	4.84	J
Nitrate-Nitrite-N	MG/KG	0.689		0.836		0.05	UJ	0.05	UJ	0.05	UJ
Sulfate	MG/KG	116	J	96.8	J	152	J	464	J	398	J

		B07004		B07101		B08001		B08002		B08003	
		REG		621748 REG		625903 REG		625929 REG		625935 REG	
		6/29/94		06/28/94DUPE		7/14/94		7/14/94		7/14/94	
		Result	Val	Result	Val	Result	Val	Result	Val	Result	Val
Anions	Units										
Chloride	MG/KG	58.4	J	335	J	53.4	J	64.2	J	35.6	J
Fluoride	MG/KG	0.1	UJ	38.8	J	2.95	J	3.6	J	5.04	J
Nitrate-Nitrite-N	MG/KG	0.798		1.8	J	3.86		1.1		1.44	
Sulfate	MG/KG	432	J	764	J	257	J	166	J	127	J

APPENDIX F.2 TABLE OF ALL VALIDATED ANALYTICAL DATA FOR SOIL
OPERABLE UNIT 5, AOC 7

MOUND OPERATIONAL AREA		B09001		B09002		B09003		B09004		B09005	
		626903 REG		626912 REG		626937 REG		626956 REG		626963 REG	
		7/19/94		7/19/94		7/19/94		7/19/94		7/19/94	
		Result	Val	Result	Val	Result	Val	Result	Val	Result	Val
Anions	Units										
Chloride	MG/KG	156	J	46	J	91.2	J	89.1	J	79.5	J
Fluoride	MG/KG	7.39	J	1.41	J	3.29	J	8.58	J	7.32	J
Nitrate-Nitrite-N	MG/KG	2.8		0.542		0.05	U	1.1		0.75	
Sulfate	MG/KG	140	J	429	J	182	J	220	J	136	J

		B09102		B10001		B10002		B10003		B11001	
		626975 REG		627660 REG		627633 REG		627638 REG		628161 REG	
		07/19/94DUPE		7/20/94		7/20/94		7/20/94		7/21/94	
		Result	Val	Result	Val	Result	Val	Result	Val	Result	Val
Anions	Units										
Chloride	MG/KG	36.5	J	55.4	J	44.6	J	33.9	J	166	J
Fluoride	MG/KG	1.48	J	5.89	J	6.17	J	4.14	J	5.83	J
Nitrate-Nitrite-N	MG/KG	0.05	U	1.5		1.06		0.71		0.972	
Sulfate	MG/KG	460	J	132	J	149	J	93.8	J	259	J

		B11002		B11003		B11004		B11102		B12001	
		628176 REG		628186 REG		628193 REG		628167 REG		627645 REG	
		7/21/94		7/21/94		7/21/94		07/21/94DUPE		7/20/94	
		Result	Val	Result	Val	Result	Val	Result	Val	Result	Val
Anions	Units										
Chloride	MG/KG	136	J	35.2	J	3	UJ	41.6	J	382	J
Fluoride	MG/KG	3.34	J	4.35	J	4.33	J	4.55	J	3.86	J
Nitrate-Nitrite-N	MG/KG	0.99		0.756		0.726		1.53		1.1	
Sulfate	MG/KG	180	J	111	J	120	J	126	J	89.8	J

APPENDIX F.2 TABLE OF ALL VALIDATED ANALYTICAL DATA FOR SOIL
OPERABLE UNIT 5, AOC 7

MOUND OPERATIONAL AREA											
		B12002		B12003		B13001		B13002		B13003	
		627679 REG		627653 REG		623058 REG		623074 REG		623093 REG	
		7/20/94		7/20/94		7/5/94		7/5/94		7/5/94	
		Result	Val	Result	Val	Result	Val	Result	Val	Result	Val
Anions	Units										
Chloride	MG/KG	82.8	J	39.3	J	54.7	J	49	J	25.2	J
Fluoride	MG/KG	2.28	J	2.53	J	1.32	J	3.37	J	1.67	J
Nitrate-Nitrite-N	MG/KG	0.05	U	0.865		0.05	UJ	3.05	J	1.69	J
Sulfate	MG/KG	66.5	J	96	J	464	J	413	J	398	J

		B13004		B13005		B14001		B14002		B14004	
		623112 REG		REG		REG		REG		624384 REG	
		7/5/94		7/5/94		7/7/94		7/7/94		7/8/94	
		Result	Val	Result	Val	Result	Val	Result	Val	Result	Val
Anions	Units										
Chloride	MG/KG	214	J	112	J	101		3	U	165	J
Fluoride	MG/KG	4.24	J	3.18	J	1.58		0.1	U	2.97	
Nitrate-Nitrite-N	MG/KG	0.05	UJ	0.829	J	0.978		2.13		1.14	
Sulfate	MG/KG	64.2	J	96.6	J	266	J	620	J	172	J

		B14104		B15001		B15002		B15003		B15004	
		624376 REG		629809 REG		629825 REG		629834 REG		629841 REG	
		07/08/94DUPE		7/27/94		7/27/94		7/27/94		7/27/94	
		Result	Val	Result	Val	Result	Val	Result	Val	Result	Val
Anions	Units										
Chloride	MG/KG	111	J	52.8	J	72.5	J	72.8	J	3	UJ
Fluoride	MG/KG	2.62		6.51	J	13.1	J	7.91	J	19.9	J
Nitrate-Nitrite-N	MG/KG	1.78		2.13		1.55		2.27		5.38	
Sulfate	MG/KG	312	J	253		376		158		269	

APPENDIX F.2 TABLE OF ALL VALIDATED ANALYTICAL DATA FOR SOIL
OPERABLE UNIT 5, AOC 7

MOUND OPERATIONAL AREA											
		B15101		B15104							
		629817 REG		629851 REG							
		07/27/94DUPE		07/27/94DUPE							
		Result	Val	Result	Val						
Anions	Units										
Chloride	MG/KG	43.4	J	3	UJ						
Fluoride	MG/KG	8.57	J	12.9	J						
Nitrate-Nitrite-N	MG/KG	1.81		2.98							
Sulfate	MG/KG	227		337							

APPENDIX F.2 TABLE OF ALL VALIDATED ANALYTICAL DATA FOR SOIL
OPERABLE UNIT 5, AOC 7

MOUND OPERATIONAL AREA		B01001		B01002		B01003		B01004		B01005	
		620410 REG		620417 REG		620479 REG		620480 REG		620481 REG	
		6/20/94		6/20/94		6/20/94		6/20/94		6/20/94	
		Result	Val	Result	Val	Result	Val	Result	Val	Result	Val
Lanthanides	Units										
Cerium	MG/KG	21.4	U	34.4	U	40.2	U	25.1	U	25.9	U
Dysprosium	MG/KG	2.4	U	2.7		2.7		2.4	U	2.4	U
Erbium	MG/KG	6.6	U	6.7	U	7.2	U	6.7	U	6.5	U
Europium	MG/KG	0.88	U	1.4		1.2		0.91		0.9	
Gadolinium	MG/KG	53.9	J	6.9	UJ	7.5	UJ	6.9	UJ	6.7	UJ
Holmium	MG/KG	2.2	U	2.2	U	2.4	U	2.2	U	2.2	U
Lanthanum	MG/KG	7.2		11.5		7.3		5.5		3.7	U
Lutetium	MG/KG	0.44	U	0.44	U	0.48	U	0.44	U	0.61	
Neodymium	MG/KG	12.7	U	12.9	U	14	U	12.9	U	12.6	U
Praseodymium	MG/KG	11	U	11.1	U	61.1		11.1	U	10.9	U
Samarium	MG/KG	18	U	18.2	U	19.8	U	18.2	U	17.8	U
Terbium	MG/KG	13.2	U	13.3	U	14.5	U	13.3	U	13	U
Thulium	MG/KG	2.2	U	2.2	U	2.4	U	2.2	U	2.2	U
Ytterbium	MG/KG	0.69	U	0.71	U	0.78	U	0.44	U	0.55	U

APPENDIX F.2 TABLE OF ALL VALIDATED ANALYTICAL DATA FOR SOIL
OPERABLE UNIT 5, AOC 7

MOUND OPERATIONAL AREA		B01006		B01007		B02001		B02002		B03001	
		620482 REG		620199 REG		620218 REG		620233 REG		620979 REG	
		6/20/94		6/20/94		6/21/94		6/21/94		6/23/94	
		Result	Val	Result	Val	Result	Val	Result	Val	Result	Val
Lanthanides	Units										
Cerium	MG/KG	17.8	U	17.3	U	21.2	U	61.4	U	12.9	U
Dysprosium	MG/KG	2.4	U	2.4	U	2.4	U	3.8		2.3	U
Erbium	MG/KG	6.6	U	6.8	J	7.5	J	7	U	6.2	U
Europium	MG/KG	1.1		1		0.87	U	1.8		0.83	U
Gadolinium	MG/KG	6.8	UJ	6.9	UJ	6.7	UJ	35.5	J	6.4	UJ
Holmium	MG/KG	2.2	U	2.2	U	2.2	U	2.3	U	2.1	U
Lanthanum	MG/KG	3.7	U	3.8	U	3.7	U	14.5		6.1	
Lutetium	MG/KG	0.44	U	0.45	U	0.43	U	0.47	U	0.42	U
Neodymium	MG/KG	12.8	U	12.9	U	12.6	U	20		16.9	
Praseodymium	MG/KG	11	U	11.1	U	13.6		97.5		13.8	
Samarium	MG/KG	18.1	U	18.3	U	17.8	U	19.1	U	17	U
Terbium	MG/KG	13.2	U	13.4	U	13	U	14	U	12.5	U
Thulium	MG/KG	2.2	U	2.2	U	2.2	U	2.3	U	2.1	U
Ytterbium	MG/KG	0.57	U	0.55	U	0.43	U	1.1	U	0.56	U

APPENDIX F.2 TABLE OF ALL VALIDATED ANALYTICAL DATA FOR SOIL
OPERABLE UNIT 5, AOC 7

MOUND OPERATIONAL AREA											
		B03002		B03003		B03004		B03005		B04001	
		620980 REG		620981 REG		620982 REG		621437 REG		620688 REG	
		6/23/94		6/23/94		6/23/94		6/27/94		6/22/94	
		Result	Val	Result	Val	Result	Val	Result	Val	Result	Val
Lanthanides	Units										
Cerium	MG/KG	31.1	U	37	U	35.4	U	35.9	U	35.4	U
Dysprosium	MG/KG	2.5	U	2.6	U	4.1		4		2.4	U
Erbium	MG/KG	8	J	7.1	U	7.6	U	6.9	U	7.2	J
Europium	MG/KG	1.4		1.4		1.1		1.3		1.4	
Gadolinium	MG/KG	7	UJ	7.4	UJ	7.8	UJ	7.2	UJ	6.9	UJ
Holmium	MG/KG	2.3	U	2.4	U	2.5	U	2.3	U	2.2	U
Lanthanum	MG/KG	6		7.6		9		7.4		9.7	
Lutetium	MG/KG	0.63		0.99		0.51	U	0.46	U	0.44	U
Neodymium	MG/KG	13.1	U	14.7		17.7		15		13.2	
Prasecodymium	MG/KG	44.3		11.9	U	60.2		11.6	U	11.1	U
Samarium	MG/KG	18.5	U	19.5	U	20.8	U	19	U	18.2	U
Terbium	MG/KG	13.5	U	14.2	U	15.2	U	13.9	U	13.3	U
Thulium	MG/KG	2.3	U	2.4	U	2.5	U	2.3	U	2.2	U
Ytterbium	MG/KG	0.74	U	0.94	U	1.1	U	0.81	U	0.73	U

APPENDIX F.2 TABLE OF ALL VALIDATED ANALYTICAL DATA FOR SOIL
OPERABLE UNIT 5, AOC 7

MOUND OPERATIONAL AREA											
		B04002		B04102		B05001		B05002		B06001	
		620689 REG		620690 REG		620691 REG		620692 REG		628691 REG	
		6/22/94		06/22/94DUPE		6/22/94		6/22/94		7/22/94	
		Result	Val	Result	Val	Result	Val	Result	Val	Result	Val
Lanthanides	Units										
Cerium	MG/KG	52.2	U	43.9	U	57.4	U	44.5	U	44.7	
Dysprosium	MG/KG	3.9		3.8		4.5		2.5	U	2.5	U
Erbium	MG/KG	7	U	7.2	U	7.2	U	6.8	U	6.8	U
Europium	MG/KG	1.8		1.7		1.6		2		0.91	U
Gadolinium	MG/KG	7.2	UJ	7.4	UJ	28.9	J	22.4	J	7.1	U
Holmium	MG/KG	2.3	U	2.4	U	2.4	U	2.3	U	2.1	U
Lanthanum	MG/KG	15.1		12.1		15.7		13.6		23.6	U
Lutetium	MG/KG	0.47	U	0.96		0.48	U	0.92		0.46	U
Neodymium	MG/KG	23.2		27.1		26.2		16.7		29.9	
Praseodymium	MG/KG	11.7	U	12	U	12	U	11.4	U	7.3	U
Samarium	MG/KG	19.1	U	19.6	U	19.6	U	18.7	U	18.7	U
Terbium	MG/KG	14	U	14.4	U	14.4	U	13.7	U	15.5	U
Thulium	MG/KG	2.3	U	2.4	U	2.4	U	2.3	U	2.3	U
Ytterbium	MG/KG	1.3	U	0.97	U	0.97	U	0.94	U	3.4	U

APPENDIX F.2 TABLE OF ALL VALIDATED ANALYTICAL DATA FOR SOIL
OPERABLE UNIT 5, AOC 7

MOUND OPERATIONAL AREA											
		B06002		B06003		B07001		B07002		B07003	
		628720 REG		628732 REG		621712 REG		621713 REG		622324 REG	
		7/22/94		7/22/94		6/28/94		6/28/94		6/28/94	
		Result	Val	Result	Val	Result	Val	Result	Val	Result	Val
Lanthanides	Units										
Cerium	MG/KG	39.5		44.6		39.1	U	47.9	U	39.9	U
Dysprosium	MG/KG	2.6	U	2.5	U	2.5	U	2.6		2.6	
Erbium	MG/KG	7.1	U	6.8	U	8.4	J	7.1	U	7	J
Europium	MG/KG	0.94	U	0.91	U	1.4		0.95		0.93	
Gadolinium	MG/KG	7.3	U	7	U	7.2	UJ	68.2	J	90.7	J
Holmium	MG/KG	2.1	U	2	U	2.3	U	2.1		2.1	
Lanthanum	MG/KG	23.5	U	14.6	U	9.1		14.6	U	13.3	U
Lutetium	MG/KG	0.47	U	0.45	U	0.46	U	0.47	U	0.55	
Neodymium	MG/KG	28.7		23.6		19.2		24.4		20.7	
Praseodymium	MG/KG	9.5	U	7.3	U	11.5	U	72.1		7.5	
Samarium	MG/KG	19.3	U	18.6	U	18.9	U	19.5		19.1	
Terbium	MG/KG	16.5	U	13.6	U	13.9	U	14.2	U	14	U
Thulium	MG/KG	2.4	U	2.3	U	2.3	U	2.4	U	2.3	U
Ytterbium	MG/KG	3.5	U	3.4	U	0.71	U	3.6		3.5	

APPENDIX F.2 TABLE OF ALL VALIDATED ANALYTICAL DATA FOR SOIL
OPERABLE UNIT 5, AOC 7

MOUND OPERATIONAL AREA											
		B07004		B07101		B08001		B08002		B08003	
		622338 REG		621716 REG		625898 REG		625901 REG		625902 REG	
		6/29/94		06/28/94DUPE		7/14/94		7/14/94		7/14/94	
		Result	Val	Result	Val	Result	Val	Result	Val	Result	Val
Lanthanides	Units										
Cerium	MG/KG	69	U	39.9	U	23.3		28.4		26.8	
Dysprosium	MG/KG	3.8		3.5		2.5	R	2.7	R	2.7	R
Erbium	MG/KG	7.2	J	6.8	U	6.8	U	7.2	U	7.2	U
Europium	MG/KG	1.8		0.91		0.9	R	0.97	R	0.97	R
Gadolinium	MG/KG	7.4	U	7	UJ	7	U	7.5	U	88.3	
Holmium	MG/KG	2.4		2		2	U	2.2	U	2.2	U
Lanthanum	MG/KG	29.6		12.4	U	12.8	U	10.4	U	10.8	U
Lutetium	MG/KG	0.48	U	0.45	U	0.45	R	0.48	R	0.48	R
Neodymium	MG/KG	25.2		15.6		32		15.4		26.1	
Praseodymium	MG/KG	59		51.8		9.5	U	7.7	U	7.7	U
Samarium	MG/KG	19.6		18.6		18.5	U	19.8	U	19.8	U
Terbium	MG/KG	14.3	U	13.6		13.5	U	14.5	U	14.5	U
Thulium	MG/KG	2.4	U	2.3	U	2.3	R	2.4	R	2.4	R
Ytterbium	MG/KG	0.9	U	3.4		3.4	U	3.6	U	3.6	U

APPENDIX F.2 TABLE OF ALL VALIDATED ANALYTICAL DATA FOR SOIL
OPERABLE UNIT 5, AOC 7

MOUND OPERATIONAL AREA		B09001		B09002		B09003		B09004		B09005	
		626876 REG		626879 REG		626885 REG		626895 REG		626897 REG	
		7/19/94		7/19/94		7/19/94		7/19/94		7/19/94	
		Result	Val	Result	Val	Result	Val	Result	Val	Result	Val
Lanthanides	Units										
Cerium	MG/KG	12.7		30.5		18.3		20		24.2	
Dysprosium	MG/KG	2.4	R	2.6	R	2.8	R	2.5	R	2.6	R
Erbium	MG/KG	6.7	U	7.1	U	7.6	U	6.9	U	7	U
Europium	MG/KG	0.89	R	0.95	R	1	R	0.92	R	0.93	R
Gadolinium	MG/KG	6.9	U	7.3	U	58.9	U	7.1	U	7.2	U
Holmium	MG/KG	2	U	2.1	U	2.3	U	2.1	U	2.1	U
Lanthanum	MG/KG	4.2	U	9.1	U	9.6	U	6.8	U	10.9	U
Lutetium	MG/KG	0.44	R	0.47	R	0.51	R	0.46	R	0.47	R
Neodymium	MG/KG	14.8		22.8		25.2		24.2		18.1	
Praseodymium	MG/KG	45.9	U	7.6	U	8.1	U	44.4	U	7.5	U
Samarium	MG/KG	18.2	U	19.4	U	20.7	U	18.9	U	19.2	U
Terbium	MG/KG	13.3	U	14.2	U	15.2	U	13.8	U	14	U
Thulium	MG/KG	2.2	R	2.4	R	2.5	R	2.3	R	2.3	R
Ytterbium	MG/KG	3.3	U	3.5	U	3.8	U	3.5	U	3.5	U

APPENDIX F.2 TABLE OF ALL VALIDATED ANALYTICAL DATA FOR SOIL
OPERABLE UNIT 5, AOC 7

MOUND OPERATIONAL AREA											
		B09102		B10001		B10002		B10003		B11001	
		626899 REG		627630 REG		627626 REG		627627 REG		628158 REG	
		07/19/94DUPE		7/20/94		7/20/94		7/20/94		7/21/94	
		Result	Val	Result	Val	Result	Val	Result	Val	Result	Val
Lanthanides	Units										
Cerium	MG/KG	25.3		35.9		32		34.2		25.1	
Dysprosium	MG/KG	2.6	R	2.5	R	2.5	R	2.7	U	2.5	R
Erbium	MG/KG	7	U	9	U	6.8	U	6.9	U	6.9	U
Europium	MG/KG	0.94	R	0.92	R	0.91	R	0.92	R	0.93	R
Gadolinium	MG/KG	7.3	U	65.9		7.1	U	7.1	U	7.2	U
Holmium	MG/KG	2.1	U	8.5	U	2	U	2.1	U	2.1	U
Lanthanum	MG/KG	8.9	U	14	U	11.4	U	12.6	U	8.1	U
Lutetium	MG/KG	0.47	R	0.46	R	0.46	R	0.46	R	0.46	R
Neodymium	MG/KG	19.3		18		20		22.1		20.7	
Praseodymium	MG/KG	7.5	U	9.8	U	7.3	U	7.3	U	7.4	U
Samarium	MG/KG	19.2	U	18.9	U	18.7	U	18.8	U	19	U
Terbium	MG/KG	14.1	U	13.8	U	13.7	U	13.8	U	13.9	U
Thulium	MG/KG	2.3	R	2.3	R	2.3	R	2.3	R	2.3	R
Ytterbium	MG/KG	3.5	U	3.5	U	3.4	U	3.4	U	3.5	U

APPENDIX F.2 TABLE OF ALL VALIDATED ANALYTICAL DATA FOR SOIL
OPERABLE UNIT 5, AOC 7

MOUND OPERATIONAL AREA											
		B11002		B11003		B11004		B11102		B12001	
		628174 REG		628182 REG		628190 REG		628166 REG		627628 REG	
		7/21/94		7/21/94		7/21/94		07/21/94DUPE		7/20/94	
		Result	Val	Result	Val	Result	Val	Result	Val	Result	Val
Lanthanides	Units										
Cerium	MG/KG	36.5		32		32		21.9		10.9	U
Dysprosium	MG/KG	2.6	R	2.5	R	2.7	R	2.5	R	17.5	U
Erbium	MG/KG	7.1	U	6.9	U	7.4	U	6.9	U	6.8	U
Europium	MG/KG	0.94	R	0.93	R	0.98	R	0.92	R	0.84	R
Gadolinium	MG/KG	7.3	U	7.2	U	7.6	U	69.3		6.5	U
Holmium	MG/KG	2.1	U	2.1	U	2.2	U	2.1	U	1.9	U
Lanthanum	MG/KG	12.6	U	14	U	10.7	U	11.4	U	3.6	U
Lutetium	MG/KG	0.47	R	0.46	R	0.49	R	0.46	R	0.42	R
Neodymium	MG/KG	23.9		26.7		15.6		22.7		10.5	U
Praseodymium	MG/KG	7.5	U	7.4	U	7.9	U	75	U	6.7	U
Samarium	MG/KG	19.3	U	19	U	20.2	U	18.9	U	17.3	U
Terbium	MG/KG	14.1	U	13.9	U	14.8	U	13.8	U	12.6	U
Thulium	MG/KG	2.4	R	2.3	R	2.5	R	2.3	R	2.1	R
Ytterbium	MG/KG	3.5	U	3.5	U	3.7	U	3.5	U	3.2	U

APPENDIX F.2 TABLE OF ALL VALIDATED ANALYTICAL DATA FOR SOIL
OPERABLE UNIT 5, AOC 7

MOUND OPERATIONAL AREA											
		B12002		B12003		B13001		B13002		B13003	
		627631 REG		627629 REG		623054 REG		623068 REG		623085 REG	
		7/20/94		7/20/94		7/5/94		7/5/94		7/5/94	
		Result	Val	Result	Val	Result	Val	Result	Val	Result	Val
Lanthanides	**Units**										
Cerium	MG/KG	28.4		24.6		29.7	U	50.7	U	44.9	U
Dysprosium	MG/KG	2.7	R	2.5	R	2.4		5.3		3.4	
Erbium	MG/KG	7.3	U	7	U	6.5	U	7.1	J	7.1	U
Europium	MG/KG	0.97	R	0.93	R	0.87		0.94		0.96	
Gadolinium	MG/KG	53.1	U	7.2	U	6.7	UJ	7.3	UJ	72.5	J
Holmium	MG/KG	2.2	U	2.8	U	2	U	2.1		2.1	U
Lanthanum	MG/KG	11.2	U	10.3	U	7.8	U	16.2	U	11.9	U
Lutetium	MG/KG	0.48	R	0.46	R	0.43	U	0.96		0.47	U
Neodymium	MG/KG	22.2		19.8		20.3		26.8		11.8	
Praseodymium	MG/KG	7.8	U	7.4	U	7	U	7.5	U	64.1	
Samarium	MG/KG	19.9	U	19	U	17.8		19.3		19.4	
Terbium	MG/KG	14.5	U	13.9	U	13		14.1		14.2	
Thulium	MG/KG	2.4	R	2.3	R	2.2	U	2.4	U	2.4	U
Ytterbium	MG/KG	3.6	U	3.5	U	3.3		3.5		3.6	

APPENDIX F.2 TABLE OF ALL VALIDATED ANALYTICAL DATA FOR SOIL
OPERABLE UNIT 5, AOC 7

MOUND OPERATIONAL AREA		B13004		B13005		B14001		B14002		B14004	
		623104 REG		623123 REG		623869 REG		623902 REG		624382 REG	
		7/5/94		7/5/94		7/7/94		7/7/94		7/8/94	
		Result	Val	Result	Val	Result	Val	Result	Val	Result	Val
Lanthanides	**Units**										
Cerium	MG/KG	70.2	U	51.6	U	23.6	U	37.2	U	54.1	U
Dysprosium	MG/KG	4.1		5.9		2.5		2.4		3.7	
Erbium	MG/KG	7.5	J	6.8	J	6.7	J	6.6	J	7.9	J
Europium	MG/KG	0.99		1.3		0.89		0.88		1.1	
Gadolinium	MG/KG	13.6	J	7.1	J	6.9	UJ	6.8	UJ	45.5	J
Holmium	MG/KG	2.2		2.1	U	2	U	2	U	2.4	
Lanthanum	MG/KG	22.9	U	17	U	10.2	U	9.7	U	17.7	U
Lutetium	MG/KG	0.5		0.46	U	0.45	U	0.44	U	0.53	
Neodymium	MG/KG	20.7		20		16.9		24.2		19.7	
Praseodymium	MG/KG	62.4		7.3		22.4		60		80.7	
Samarium	MG/KG	20.4		18.7		18.3		18.1		21.6	U
Terbium	MG/KG	14.9		13.7		13.4		13.2	U	15.8	U
Thulium	MG/KG	2.5	U	2.3	U	2.2	U	2.2	U	2.6	U
Ytterbium	MG/KG	3.7		3.4		3.3		3.3		3.9	

APPENDIX F.2 TABLE OF ALL VALIDATED ANALYTICAL DATA FOR SOIL
OPERABLE UNIT 5, AOC 7

MOUND OPERATIONAL AREA											
		B14104		B15001		B15002		B15003		B15004	
		624374 REG		629807 REG		629823 REG		629831 REG		629839 REG	
		07/08/94DUPE		7/27/94		7/27/94		7/27/94		7/27/94	
		Result	Val	Result	Val	Result	Val	Result	Val	Result	Val
Lanthanides	Units										
Cerium	MG/KG	37.7	U	30.2		43.5		62		74.1	
Dysprosium	MG/KG	2.6		3.4	U	5.1	U	4.5	U	5.4	U
Erbium	MG/KG	7	J	9.2	U	14	U	12.4	U	14.7	U
Europium	MG/KG	0.94	U	1.2	U	1.9	U	1.6	U	2	U
Gadolinium	MG/KG	7.3	UJ	9.5	U	14.5	U	48	U	22.8	U
Holmium	MG/KG	2.1	U	2.8	U	6.2	U	3.7	U	4.4	U
Lanthanum	MG/KG	12.3	U	14.1	U	17.6	U	22.6	U	31.4	U
Lutetium	MG/KG	0.47	U	0.61	U	0.93	U	0.82	U	0.98	U
Neodymium	MG/KG	16.8		24.1		27.2		37.9		46.1	
Praseodymium	MG/KG	55.2		9.8	U	121		13.2	U	15.6	U
Samarium	MG/KG	19.2		25.2	U	38.2	U	33.8	U	40.1	U
Terbium	MG/KG	14		18.4	U	28	U	24.7	U	29.3	U
Thulium	MG/KG	2.3	U	3.1	U	4.7	U	4.1	U	4.9	U
Ytterbium	MG/KG	3.5		4.6	U	7	U	6.2	U	7.3	U

APPENDIX F.2 TABLE OF ALL VALIDATED ANALYTICAL DATA FOR SOIL
OPERABLE UNIT 5, AOC 7

MOUND OPERATIONAL AREA					
		B15101		B15104	
		629815 REG		629847 REG	
		07/27/94DUPE		07/27/94DUPE	
		Result	Val	Result	Val
Lanthanides	Units				
Cerium	MG/KG	25		75	
Dysprosium	MG/KG	2.9	U	5.6	U
Erbium	MG/KG	9.7	U	15.3	U
Europium	MG/KG	1.1	U	2	U
Gadolinium	MG/KG	106		15.8	U
Holmium	MG/KG	5.4	U	4.8	U
Lanthanum	MG/KG	12.5	U	29.5	U
Lutetium	MG/KG	0.53	U	1	U
Neodymium	MG/KG	23.5		44.4	
Praseodymium	MG/KG	12	U	16.3	U
Samarium	MG/KG	21.6	U	41.7	U
Terbium	MG/KG	15.8	U	30.5	U
Thulium	MG/KG	2.6	U	5.1	U
Ytterbium	MG/KG	3.9	U	7.6	U

APPENDIX F.2 TABLE OF ALL VALIDATED ANALYTICAL DATA FOR SOIL
OPERABLE UNIT 5, AOC 7

MOUND OPERATIONAL AREA																
		B01001			B01002			B01003			B01004			B01005		
		620038 REG			620045 REG			620049 REG			620052 REG			620058 REG		
		6/20/94			6/20/94			6/20/94			6/20/94			6/20/94		
		Result	UNC	Val	Result	UNC	Val	Result	UNC	Val	Result	UNC	Val	Result	UNC	Val
Radiological	Units															
Ac-227	PCI/G	0.27+/-	NA	U	0.32+/-	NA	U	0.30+/-	NA	U	0.27+/-	NA	U	0.23+/-	NA	U
Am-241	PCI/G	0.28+/-	NA	U	0.33+/-	NA	U	0.39+/-	NA	U	0.27+/-	NA	U	0.30+/-	NA	U
Bi-207	PCI/G	0.04+/-	NA	U	0.05+/-	NA	U	0.04+/-	NA	U	0.04+/-	NA	U	0.03+/-	NA	U
Bi-210m	PCI/G	0.06+/-	NA	U	0.07+/-	NA	U	0.07+/-	NA	U	0.06+/-	NA	U	0.06+/-	NA	U
Co-60	PCI/G	0.04+/-	NA	U	0.04+/-	NA	U	0.05+/-	NA	U	0.04+/-	NA	U	0.04+/-	NA	U
Cs-137	PCI/G	0.05+/-	NA	U	0.05+/-	NA	U	0.12+/-	0.04	U	0.05+/-	NA	U	0.04+/-	NA	U
K-40	PCI/G	9.67+/-	0.96	U	18.62+/-	1.21		19.57+/-	1.29		11.00+/-	0.87		11.20+/-	0.93	
Pu-238	PIC/G	0.08+/-	0.15	UJ	0.18+/-	0.06	J	0.21+/-	0.17		-0.01+/-	0.05	UJ	-0.01+/-	0.07	U
Pu-239/40	PIC/G	-0.01+/-	0.05	UJ	0.00+/-	0.02	UJ	-0.03+/-	0.09	U	-0.00+/-	0.02	UJ	0.00+/-	0.03	U
Ra-226	PCI/G	0.18+/-	NA	U	0.62+/-	0.1		0.18+/-	NA	U	0.68+/-	0.1		0.72+/-	0.09	
Sr-90	PCI/G	0.17+/-	0.69	UJ	0.28+/-	0.77	UJ	0.78+/-	1.02	UJ	-0.18+/-	0.91	UJ	0.53+/-	0.91	UJ
Th-228	PIC/G	0.65+/-	0.13	J	0.53+/-	0.12		0.37+/-	0.16		0.42+/-	0.13		0.54+/-	0.1	
Th-230	PIC/G	1.31+/-	0.19	J	0.18+/-	0.07		0.44+/-	0.14		0.27+/-	0.1		0.54+/-	0.11	
Th-232	PIC/G	0.45+/-	0.11	J	0.13+/-	0.06		0.22+/-	0.1		0.03+/-	0.04	U	0.30+/-	0.08	
Tritium	PCI/G	0.0+/-	0	U	0.0+/-	0	U	0.6+/-	3.8	U	0.0+/-	0	U	0.0+/-	0	U
U-234	PCI/G	0.82+/-	0.19	UJ	0.75+/-	0.19	U	0.62+/-	0.12	U	0.68+/-	0.13	UJ	0.98+/-	0.19	U
U-235	PCI/G	0.06+/-	0.05	J	0.25+/-	0.11		0.05+/-	0.03		0.03+/-	0.03	J	0.15+/-	0.07	
U-238	PCI/G	0.91+/-	0.2	J	0.94+/-	0.22		0.65+/-	0.13		0.85+/-	0.15	J	0.98+/-	0.19	

APPENDIX F.2 TABLE OF ALL VALIDATED ANALYTICAL DATA FOR SOIL
OPERABLE UNIT 5, AOC 7

MOUND OPERATIONAL AREA																
		B01006			B01007			B02001			B02002			B03001		
		REG			620303 REG			620309 REG			620313 REG			621004 REG		
		6/20/94			6/20/94			6/21/94			6/21/94			6/23/94		
		Result	UNC	Val	Result	UNC	Val	Result	UNC	Val	Result	UNC	Val	Result	UNC	Val
Radiological	Units															
Ac-227	PCI/G	0.23+/-	NA	U	0.24+/-	NA	U	0.17+/-	NA	U	0.39+/-	NA	U	0.19+/-	NA	U
Am-241	PCI/G	0.32+/-	NA	U	0.28+/-	NA	U	0.21+/-	NA	U	0.43+/-	NA	U	0.19+/-	NA	U
Bi-207	PCI/G	0.04+/-	NA	U	0.04+/-	NA	U	0.02+/-	NA	U	0.06+/-	NA	U	0.03+/-	NA	U
Bi-210m	PCI/G	0.05+/-	NA	U	0.06+/-	NA	U	0.04+/-	NA	U	0.09+/-	NA	U	0.04+/-	NA	U
Co-60	PCI/G	0.04+/-	NA	U	0.04+/-	NA	U	0.03+/-	NA	U	0.06+/-	NA	U	0.03+/-	NA	U
Cs-137	PCI/G	0.04+/-	NA	U	0.04+/-	NA	U	0.03+/-	NA	U	0.06+/-	NA	U	0.05+/-	0.02	U
K-40	PCI/G	13.26+/-	0.9		11.63+/-	0.89		2.54+/-	0.51	U	34.08+/-	1.73		4.26+/-	0.54	U
Pu-238	PIC/G	0.07+/-	0.12	U	0.01+/-	0.08	U	-0.04+/-	0.15	U	0.01+/-	0.11	U	0.03+/-	0.1	UJ
Pu-239/40	PIC/G	0.01+/-	0.05	U	-0.01+/-	0.04	U	-0.02+/-	0.1	U	0.01+/-	0.03	U	0.01+/-	0.02	UJ
Ra-226	PCI/G	0.58+/-	0.08		0.71+/-	0.08		0.19+/-	0.05	U	0.68+/-	0.11		0.13+/-	NA	U
Sr-90	PCI/G	0.23+/-	0.78	UJ	1.00+/-	0.83	UJ	0.58+/-	0.98	UJ	0.04+/-	0.45	U	0.77+/-	0.82	UJ
Th-228	PIC/G	0.29+/-	0.13	J	0.31+/-	0.12	U	0.26+/-	0.07		0.58+/-	0.12		0.25+/-	0.06	
Th-230	PIC/G	0.18+/-	0.06	J	0.49+/-	0.13	U	0.10+/-	0.05		0.43+/-	0.11		0.00+/-	0.02	U
Th-232	PIC/G	0.05+/-	0.03	J	0.14+/-	0.07	U	0.00+/-	0.02	U	0.43+/-	0.1		0.00+/-	0.02	U
Tritium	PCI/G	0.0+/-	0	U	0.0+/-	0	U	0.0+/-	0	U	0.0+/-	0	U	1.6+/-	2.1	U
U-234	PCI/G	0.94+/-	0.15	UJ	0.95+/-	0.19	U	0.47+/-	0.13	U	1.13+/-	0.19	UJ	0.49+/-	0.12	UJ
U-235	PCI/G	0.08+/-	0.04	J	0.08+/-	0.05		0.12+/-	0.06		0.11+/-	0.06	J	0.05+/-	0.04	J
U-238	PCI/G	0.87+/-	0.15	J	1.00+/-	0.19		0.39+/-	0.11		1.14+/-	0.19	J	0.38+/-	0.1	J

APPENDIX F.2 TABLE OF ALL VALIDATED ANALYTICAL DATA FOR SOIL
OPERABLE UNIT 5, AOC 7

MOUND OPERATIONAL AREA																
		B03002			B03003			B03004			B03005			B04001		
		621008 REG			621012 REG			621446 REG			621453 REG			REG		
		6/23/94			6/23/94			6/23/94			6/27/94			6/22/94		
		Result	UNC	Val	Result	UNC	Val	Result	UNC	Val	Result	UNC	Val	Result	UNC	Val
Radiological	Units															
Ac-227	PCI/G	0.34+/-	NA	U	0.33+/-	NA	U	0.25+/-	NA	U	0.31+/-	NA	U	0.24+/-	NA	U
Am-241	PCI/G	0.35+/-	NA	U	0.34+/-	NA	U	0.33+/-	NA	U	0.33+/-	NA	U	0.31+/-	NA	U
Bi-207	PCI/G	0.05+/-	NA	U	0.05+/-	NA	U	0.04+/-	NA	U	0.05+/-	NA	U	0.04+/-	NA	U
Bi-210m	PCI/G	0.08+/-	NA	U	0.07+/-	NA	U	0.06+/-	NA	U	0.07+/-	NA	U	0.06+/-	NA	U
Co-60	PCI/G	0.05+/-	NA	U	0.05+/-	NA	U	0.04+/-	NA	U	0.05+/-	NA	U	0.04+/-	NA	U
Cs-137	PCI/G	0.04+/-	0.04	U	0.06+/-	NA	U	0.09+/-	0.04	U	0.05+/-	NA	U	0.02+/-	0.05	U
K-40	PCI/G	23.06+/-	1.33		25.59+/-	1.41		18.50+/-	1.13		11.65+/-	1.09		8.57+/-	0.84	U
Pu-238	PIC/G	0.03+/-	0.12	UJ	0.00+/-	0.14	UJ	-0.01+/-	0.07	U	0.01+/-	0.02	U	0.19+/-	0.06	
Pu-239/40	PIC/G	-0.01+/-	0.06	UJ	0.01+/-	0.05	UJ	0.00+/-	0.03	U	-0.00+/-	0.02	U	0.00+/-	0.02	U
Ra-226	PCI/G	0.57+/-	0.1		0.19+/-	NA	U	0.52+/-	0.1		0.71+/-	0.11		0.49+/-	0.08	
Sr-90	PCI/G	0.02+/-	0.44	U	0.93+/-	0.69	UJ	-0.14+/-	0.58	UJ	-0.38+/-	0.54	UJ	0.28+/-	0.72	UJ
Th-228	PIC/G	0.54+/-	0.14		0.61+/-	0.11	J	1.06+/-	0.17	J	0.97+/-	0.14	J	0.39+/-	0.11	
Th-230	PIC/G	0.48+/-	0.14		0.26+/-	0.07	J	0.90+/-	0.16	J	1.19+/-	0.16	J	0.39+/-	0.11	J
Th-232	PIC/G	0.34+/-	0.11		0.29+/-	0.07	J	0.73+/-	0.14	J	0.70+/-	0.12	J	0.29+/-	0.1	J
Tritium	PCI/G	1.1+/-	2.2	U	1.4+/-	2.3	U	1.4+/-	2.5	U	1.4+/-	2.3	U	0.0+/-	0	U
U-234	PCI/G	0.81+/-	0.15	UJ	0.76+/-	0.16	UJ	0.66+/-	0.14	UJ	0.81+/-	0.15	UJ	0.65+/-	0.11	U
U-235	PCI/G	0.14+/-	0.06	J	0.09+/-	0.05	J	0.02+/-	0.03	UJ	0.06+/-	0.04	J	0.04+/-	0.03	
U-238	PCI/G	0.74+/-	0.14	J	0.79+/-	0.16	J	0.77+/-	0.15	J	0.75+/-	0.14	J	0.62+/-	0.11	

APPENDIX F.2 TABLE OF ALL VALIDATED ANALYTICAL DATA FOR SOIL
OPERABLE UNIT 5, AOC 7

MOUND OPERATIONAL AREA																
		B04002			B04102			B05001			B05002			B06001		
		620732 REG			620735 REG			620739 REG			620743 REG			628743 REG		
		6/22/94			06/22/94DUPE			6/22/94			6/22/94			7/22/94		
		Result	UNC	Val	Result	UNC	Val	Result	UNC	Val	Result	UNC	Val	Result	UNC	Val
Radiological	Units															
Ac-227	PCI/G	0.32+/-	NA	U	0.36+/-	NA	U	0.37+/-	NA	U	0.38+/-	NA	U	0.47+/-	NA	U
Am-241	PCI/G	0.46+/-	NA	U	0.49+/-	NA	U	0.40+/-	NA	U	0.48+/-	NA	U	0.46+/-	NA	U
Bi-207	PCI/G	0.05+/-	NA	U	0.05+/-	NA	U	0.06+/-	NA	U	0.06+/-	NA	U	0.07+/-	NA	U
Bi-210m	PCI/G	0.07+/-	NA	U	0.09+/-	NA	U	0.09+/-	NA	U	0.09+/-	NA	U	0.10+/-	NA	U
Co-60	PCI/G	0.06+/-	NA	U	0.06+/-	NA	U	0.07+/-	NA	U	0.06+/-	NA	U	0.08+/-	NA	U
Cs-137	PCI/G	0.06+/-	NA	U	0.06+/-	NA	U	0.18+/-	0.05	U	0.06+/-	NA	U	0.09+/-	NA	U
K-40	PCI/G	25.75+/-	1.49		24.23+/-	1.63		19.52+/-	1.32		25.68+/-	1.72		23.72+/-	1.68	J
Pu-238	PIC/G	0.02+/-	0.11	U	0.00+/-	0.12	U	0.24+/-	0.08		-0.00+/-	0.03	UJ	0.05+/-	0.06	UJ
Pu-239/40	PIC/G	0.00+/-	0.05	U	0.11+/-	0.07		-0.01+/-	0.03	U	-0.00+/-	0.02	UJ	-0.01+/-	0.02	UJ
Ra-226	PCI/G	0.71+/-	0.12		0.54+/-	0.13		0.24+/-	NA	U	0.61+/-	0.11		0.70+/-	0.15	
Sr-90	PCI/G	0.06+/-	0.49	U	0.10+/-	0.57	UJ	0.17+/-	0.45	U	-0.10+/-	0.57	UJ	-0.24+/-	0.49	U
Th-228	PIC/G	0.69+/-	0.13	J	0.55+/-	0.12	J	1.21+/-	0.18		0.63+/-	0.13	J	1.24+/-	0.19	U
Th-230	PIC/G	0.53+/-	0.11	J	0.25+/-	0.08	J	1.04+/-	0.16	J	0.46+/-	0.11	J	0.74+/-	0.14	
Th-232	PIC/G	0.42+/-	0.1	J	0.24+/-	0.08	J	1.02+/-	0.16	J	0.42+/-	0.1	J	0.56+/-	0.12	J
Tritium	PCI/G	1.5+/-	2.3	U	1.1+/-	2.4	U	0.9+/-	2.2	U	1.1+/-	2.2	U	-0.1+/-	1	U
U-234	PCI/G	0.70+/-	0.15	U	0.63+/-	0.12	UJ	1.19+/-	0.26		0.76+/-	0.17	U	0.79+/-	0.16	
U-235	PCI/G	0.04+/-	0.04		0.04+/-	0.03	J	0.23+/-	0.11		0.04+/-	0.04	U	0.00+/-	0.03	U
U-238	PCI/G	0.85+/-	0.17		0.74+/-	0.13	J	1.23+/-	0.27		0.71+/-	0.17		0.69+/-	0.15	J

APPENDIX F.2 TABLE OF ALL VALIDATED ANALYTICAL DATA FOR SOIL
OPERABLE UNIT 5, AOC 7

MOUND OPERATIONAL AREA																
		B06002			B06003			B07001			B07002			B07003		
		628752 REG			628757 REG			REG			621761 REG			REG		
		7/22/94			7/22/94			6/28/94			6/28/94			6/28/94		
		Result	UNC	Val	Result	UNC	Val	Result	UNC	Val	Result	UNC	Val	Result	UNC	Val
Radiological	Units															
Ac-227	PCI/G	0.39+/-	NA	U	0.31+/-	NA	U	0.31+/-	NA	U	0.31+/-	NA	U	0.26+/-	NA	U
Am-241	PCI/G	0.50+/-	NA	U	0.40+/-	NA	U	+/-	NA	U	0.42+/-	NA	U	0.35+/-	NA	U
Bi-207	PCI/G	0.06+/-	NA	U	0.04+/-	NA	U	0.04+/-	NA	U	0.04+/-	NA	U	0.04+/-	NA	U
Bi-210m	PCI/G	0.09+/-	NA	U	0.07+/-	NA	U	0.07+/-	NA	U	0.06+/-	NA	U	0.06+/-	NA	U
Co-60	PCI/G	0.07+/-	NA	U	0.05+/-	NA	U	0.05+/-	NA	U	0.04+/-	NA	U	0.03+/-	NA	U
Cs-137	PCI/G	0.07+/-	NA	U	0.05+/-	NA	U	0.09+/-	0.06	U	0.10+/-	0.04	U	0.06+/-	0.04	U
K-40	PCI/G	28.30+/-	1.77	J	24.48+/-	1.37	J	12.05+/-	1.03		15.32+/-	1.15		11.65+/-	0.97	
Pu-238	PIC/G	0.00+/-	0.04	UJ	0.06+/-	0.15	U	0.82+/-	0.13	J	0.30+/-	0.11		0.54+/-	0.14	
Pu-239/40	PIC/G	0.00+/-	0.04	UJ	-0.01+/-	0.06	U	0.00+/-	0.02	UJ	0.03+/-	0.04	U	0.01+/-	0.04	U
Ra-226	PCI/G	0.25+/-	NA	U	0.69+/-	0.11		0.58+/-	0.11		0.50+/-	0.11		0.44+/-	0.1	
Sr-90	PCI/G	-0.15+/-	0.58	UJ	-0.15+/-	0.47	U	-0.55+/-	0.77	UJ	-0.63+/-	0.55	U	-0.59+/-	0.51	U
Th-228	PIC/G	1.27+/-	0.32	U	1.41+/-	0.31	U	1.53+/-	0.27	J	0.86+/-	0.13	J	0.98+/-	0.17	
Th-230	PIC/G	1.23+/-	0.31		0.81+/-	0.22		0.92+/-	0.2		0.29+/-	0.07	J	0.52+/-	0.12	
Th-232	PIC/G	0.75+/-	0.24	J	0.92+/-	0.24	J	1.00+/-	0.21	J	0.34+/-	0.08	J	0.34+/-	0.1	
Tritium	PCI/G	0.3+/-	1.4	U	0.0+/-	0	U	4.7+/-	1.6		1.8+/-	3.3	U	1.0+/-	2.9	U
U-234	PCI/G	0.74+/-	0.16		0.74+/-	0.17	J	0.67+/-	0.12	UJ	0.62+/-	0.11	J	0.55+/-	0.12	J
U-235	PCI/G	0.03+/-	0.04	U	-0.01+/-	0.04	UJ	0.02+/-	0.02	UJ	-0.02+/-	0.02	UJ	-0.02+/-	0.04	UJ
U-238	PCI/G	1.14+/-	0.21	J	0.87+/-	0.19	J	0.79+/-	0.13	J	0.77+/-	0.12	J	0.80+/-	0.15	J

APPENDIX F.2 TABLE OF ALL VALIDATED ANALYTICAL DATA FOR SOIL
OPERABLE UNIT 5, AOC 7

MOUND OPERATIONAL AREA		B07004			B07101			B08001			B08002			B08003		
		622386 REG			621776 REG			625953 REG			625957 REG			625961 REG		
		6/29/94			06/28/94DUPE			7/14/94			7/14/94			7/14/94		
		Result	UNC	Val	Result	UNC	Val	Result	UNC	Val	Result	UNC	Val	Result	UNC	Val
Radiological	Units															
Ac-227	PCI/G	0.92+/-	NA	U	0.37+/-	NA	U	0.22+/-	NA	U	0.25+/-	NA	U	0.23+/-	NA	U
Am-241	PCI/G	0.91+/-	NA	U	0.37+/-	NA	U	0.29+/-	NA	U	0.30+/-	NA	U	0.30+/-	NA	U
Bi-207	PCI/G	0.10+/-	NA	U	0.05+/-	NA	U	0.03+/-	NA	U	0.04+/-	NA	U	0.03+/-	NA	U
Bi-210m	PCI/G	0.17+/-	NA	U	0.08+/-	NA	U	0.05+/-	NA	U	0.06+/-	NA	U	0.06+/-	NA	U
Co-60	PCI/G	0.08+/-	NA	U	0.05+/-	NA	U	0.03+/-	NA	U	0.04+/-	NA	U	0.05+/-	NA	U
Cs-137	PCI/G	0.13+/-	NA	U	0.06+/-	0.05	U	0.03+/-	NA	U	0.44+/-	NA	U	0.04+/-	NA	U
K-40	PCI/G	19.49+/-	1.29		13.94+/-	1.12		13.17+/-	0.97		15.59+/-	10.6		16.24+/-	10.5	
Pu-238	PIC/G	0.34+/-	0.11	J	1.36+/-	0.25		0.05+/-	0.17	UJ	0.00+/-	0.02	U	0.01+/-	0.11	UJ
Pu-239/40	PIC/G	0.01+/-	0.04	UJ	0.12+/-	0.08		0.02+/-	0.06	UJ	0.01+/-	0.02	U	0.02+/-	0.05	UJ
Ra-226	PCI/G	0.90+/-	0.17		0.66+/-	0.11		0.40+/-	0.08		0.42+/-	0.09		0.15+/-	NA	U
Sr-90	PCI/G	-0.09+/-	0.48	U	-0.62+/-	0.66	UJ	-0.52+/-	0.5	U	-0.34+/-	0.39	U	0.01+/-	0.58	U
Th-228	PIC/G	3.07+/-	0.32	J	0.85+/-	0.13	J	0.58+/-	0.13	UJ	0.76+/-	0.17	UJ	0.60+/-	0.12	UJ
Th-230	PIC/G	0.50+/-	0.11	J	0.34+/-	0.08		0.08+/-	0.05	UJ	0.22+/-	0.09	UJ	-0.02+/-	0.03	UJ
Th-232	PIC/G	1.75+/-	0.23	J	0.21+/-	0.06	J	0.06+/-	0.04	J	0.06+/-	0.05	J	0.00+/-	0.03	UJ
Tritium	PCI/G	2.2+/-	1.9	U	3.7+/-	2.8	U	3.4+/-	1.7		2.5+/-	1.7		2.4+/-	1.8	
U-234	PCI/G	2.21+/-	0.23	J	0.44+/-	0.14		0.63+/-	0.15		0.52+/-	0.1		0.71+/-	0.11	J
U-235	PCI/G	-0.02+/-	0.02	UJ	0.01+/-	0.05	U	0.12+/-	0.06		0.00+/-	0.02	U	0.01+/-	0.02	UJ
U-238	PCI/G	2.28+/-	0.23	J	0.66+/-	0.17		0.71+/-	0.16	J	0.52+/-	0.1	J	0.65+/-	0.11	J

APPENDIX F.2 TABLE OF ALL VALIDATED ANALYTICAL DATA FOR SOIL
OPERABLE UNIT 5, AOC 7

MOUND OPERATIONAL AREA																
		B09001			B09002			B09003			B09004			B09005		
		626989 REG			626984 REG			626994 REG			REG			627002 REG		
		7/19/94			7/19/94			7/19/94			7/19/94			7/19/94		
		Result	UNC	Val	Result	UNC	Val	Result	UNC	Val	Result	UNC	Val	Result	UNC	Val
Radiological	Units															
Ac-227	PCI/G	0.27+/-	NA	U	0.30+/-	NA	U	0.26+/-	NA	U	0.25+/-	NA	U	0.19+/-	NA	U
Am-241	PCI/G	0.28+/-	NA	U	0.36+/-	NA	U	0.29+/-	NA	U	0.25+/-	NA	U	0.20+/-	NA	U
Bi-207	PCI/G	0.04+/-	NA	U	0.04+/-	NA	U	0.04+/-	NA	U	0.04+/-	NA	U	0.03+/-	NA	U
Bi-210m	PCI/G	0.06+/-	NA	U	0.06+/-	NA	U	0.06+/-	NA	U	0.06+/-	NA	U	0.05+/-	NA	U
Co-60	PCI/G	0.05+/-	NA	U	0.05+/-	NA	U	0.04+/-	NA	U	0.04+/-	NA	U	0.03+/-	NA	U
Cs-137	PCI/G	0.05+/-	NA	U	0.05+/-	NA	U	0.05+/-	NA	U	0.04+/-	NA	U	0.04+/-	NA	U
K-40	PCI/G	13.82+/-	0.96		19.70+/-	1.27		22.39+/-	1.15		19.11+/-	10.4		10.34+/-	0.74	
Pu-238	PIC/G	0.16+/-	0.06		0.05+/-	0.17	UJ	0.04+/-	0.13	UJ	-0.03+/-	0.1	U	-0.08+/-	0.14	U
Pu-239/40	PIC/G	-0.01+/-	0.03	U	0.00+/-	0.08	UJ	0.02+/-	0.04	UJ	0.03+/-	0.03	U	-0.02+/-	0.07	U
Ra-226	PCI/G	0.36+/-	0.08		0.43+/-	0.1		0.48+/-	0.08		0.56+/-	0.08		0.41+/-	0.07	
Sr-90	PCI/G	-0.66+/-	0.8	U	-0.45+/-	0.77	U	-0.92+/-	0.81	U	-0.05+/-	0.49	U	-0.41+/-	0.85	U
Th-228	PIC/G	0.57+/-	0.14	UJ	0.78+/-	0.16	UJ	1.16+/-	0.17	UJ	0.70+/-	0.12	UJ	0.66+/-	0.16	UJ
Th-230	PIC/G	0.20+/-	0.08	UJ	0.36+/-	0.11	UJ	0.36+/-	0.09	UJ	0.36+/-	0.08	UJ	0.32+/-	0.11	UJ
Th-232	PIC/G	0.13+/-	0.07	J	0.25+/-	0.09	J	0.39+/-	0.09	J	0.20+/-	0.06	J	0.03+/-	0.04	UJ
Tritium	PCI/G	9.5+/-	2.5		58.5+/-	3.5		10.4+/-	2.7		4.4+/-	2.1		3.2+/-	1.8	
U-234	PCI/G	0.44+/-	0.09	J	0.66+/-	0.13		0.49+/-	0.13		0.91+/-	0.2		0.53+/-	0.13	
U-235	PCI/G	-0.03+/-	0.02	UJ	-0.03+/-	0.03	U	-0.03+/-	0.04	U	0.14+/-	0.07		-0.01+/-	0.04	U
U-238	PCI/G	0.44+/-	0.09	J	0.67+/-	0.13	J	0.54+/-	0.14	J	1.11+/-	0.22	J	0.68+/-	0.15	J

APPENDIX F.2 TABLE OF ALL VALIDATED ANALYTICAL DATA FOR SOIL
OPERABLE UNIT 5, AOC 7

MOUND OPERATIONAL AREA																
		B09102			B10001			B10002			B10003			B11001		
		626987 REG			627710 REG			627689 REG			627698 REG			628201 REG		
		07/19/94DUPE			7/20/94			7/20/94			7/20/94			7/21/94		
		Result	UNC	Val	Result	UNC	Val	Result	UNC	Val	Result	UNC	Val	Result	UNC	Val
Radiological	Units															
Ac-227	PCI/G	0.28+/-	NA	U	0.29+/-	NA	U	0.32+/-	NA	U	0.29+/-	NA	U	0.26+/-	NA	U
Am-241	PCI/G	0.29+/-	NA	U	0.30+/-	NA	U	0.31+/-	NA	U	0.30+/-	NA	U	0.29+/-	NA	U
Bi-207	PCI/G	0.04+/-	NA	U	0.04+/-	NA	U	0.04+/-	NA	U	0.04+/-	NA	U	0.04+/-	NA	U
Bi-210m	PCI/G	0.07+/-	NA	U	0.06+/-	NA	U	0.07+/-	NA	U	0.07+/-	NA	U	0.06+/-	NA	U
Co-60	PCI/G	0.04+/-	NA	U	0.04+/-	NA	U	0.04+/-	NA	U	0.05+/-	NA	U	0.04+/-	NA	U
Cs-137	PCI/G	0.05+/-	NA	U	0.05+/-	NA	U	0.05+/-	NA	U	0.05+/-	NA	U	0.05+/-	0.06	U
K-40	PCI/G	17.87+/-	1.11		19.85+/-	1.13		22.23+/-	1.22		22.28+/-	1.17		12.04+/-	0.97	
Pu-238	PIC/G	0.02+/-	0.04	UJ	0.18+/-	0.07	J	-0.03+/-	0.14	U	-0.07+/-	0.15	U	0.28+/-	0.08	J
Pu-239/40	PIC/G	0.01+/-	0.04	UJ	0.02+/-	0.03	UJ	0.00+/-	0.08	U	0.01+/-	0.05	U	0.01+/-	0.03	UJ
Ra-226	PCI/G	0.54+/-	0.09		0.49+/-	0.1		0.60+/-	0.11		0.56+/-	0.1		0.54+/-	0.09	
Sr-90	PCI/G	-0.23+/-	0.73	U	-0.27+/-	0.51	U	-0.21+/-	0.69	U	0.52+/-	0.69	U	-0.50+/-	0.69	U
Th-228	PIC/G	0.61+/-	0.12	UJ	0.92+/-	0.15	UJ	0.75+/-	0.16	UJ	0.70+/-	0.17	UJ	0.74+/-	0.18	UJ
Th-230	PIC/G	0.10+/-	0.05	UJ	0.35+/-	0.09	UJ	0.34+/-	0.1	UJ	0.24+/-	0.09	UJ	0.20+/-	0.09	UJ
Th-232	PIC/G	0.15+/-	0.06	J	0.36+/-	0.09	J	0.10+/-	0.05	J	0.14+/-	0.07	J	0.13+/-	0.07	J
Tritium	PCI/G	44.0+/-	3.2		0.1+/-	1.2	U	2.0+/-	1.6		0.1+/-	1.2	U	2.6+/-	1.7	
U-234	PCI/G	0.58+/-	0.17		0.76+/-	0.2		0.58+/-	0.14		0.82+/-	0.14	J	0.56+/-	0.15	
U-235	PCI/G	0.15+/-	0.09		0.04+/-	0.06	U	0.03+/-	0.04	U	0.00+/-	0.02	UJ	0.00+/-	0.04	U
U-238	PCI/G	0.71+/-	0.19	J	0.86+/-	0.22	J	0.71+/-	0.15	J	0.84+/-	0.14	J	0.54+/-	0.14	J

APPENDIX F.2 TABLE OF ALL VALIDATED ANALYTICAL DATA FOR SOIL
OPERABLE UNIT 5, AOC 7

MOUND OPERATIONAL AREA																
		B11002			B11003			B11004			B11102			B12001		
		REG			628214 REG			628223 REG			628203 REG			627701 REG		
		7/21/94			7/21/94			7/21/94			07/21/94DUPE			7/20/94		
		Result	UNC	Val	Result	UNC	Val	Result	UNC	Val	Result	UNC	Val	Result	UNC	Val
Radiological	**Units**															
Ac-227	PCI/G	0.30+/-	NA	U	0.26+/-	NA	U	0.28+/-	NA	U	0.34+/-	NA	U	0.19+/-	NA	U
Am-241	PCI/G	0.40+/-	NA	U	0.35+/-	NA	U	0.30+/-	NA	U	0.46+/-	NA	U	0.23+/-	NA	U
Bi-207	PCI/G	0.04+/-	NA	U	0.04+/-	NA	U	0.04+/-	NA	U	0.05+/-	NA	U	0.03+/-	NA	U
Bi-210m	PCI/G	0.07+/-	NA	U	0.06+/-	NA	U	0.07+/-	NA	U	0.08+/-	NA	U	0.05+/-	NA	U
Co-60	PCI/G	0.06+/-	NA	U	0.05+/-	NA	U	0.05+/-	NA	U	0.06+/-	NA	U	0.03+/-	NA	U
Cs-137	PCI/G	0.06+/-	NA	U	0.05+/-	NA	U	0.05+/-	NA	U	0.06+/-	NA	U	0.03+/-	NA	U
K-40	PCI/G	20.29+/-	1.36		20.72+/-	1.18		23.00+/-	1.19		19.54+/-	1.35		5.25+/-	0.61	U
Pu-238	PIC/G	0.09+/-	0.04		0.08+/-	0.1	U	0.08+/-	0.12	U	0.00+/-	0.06	UJ	-0.03+/-	0.2	UJ
Pu-239/40	PIC/G	0.00+/-	0.02	U	0.01+/-	0.04	U	0.01+/-	0.05	U	0.01+/-	0.06	UJ	0.00+/-	0.12	UJ
Ra-226	PCI/G	0.61+/-	0.12		0.50+/-	0.09		0.47+/-	0.09		0.67+/-	0.11		0.40+/-	0.07	
Sr-90	PCI/G	0.08+/-	0.55	U	-0.35+/-	0.57	U	-0.02+/-	0.32	U	-0.06+/-	0.44	U	0.14+/-	0.71	U
Th-228	PIC/G	0.67+/-	0.17	UJ	0.80+/-	0.17	UJ	0.92+/-	0.13	UJ	1.13+/-	0.25	UJ	0.56+/-	0.11	UJ
Th-230	PIC/G	0.54+/-	0.14	UJ	0.54+/-	0.14	UJ	0.38+/-	0.08	UJ	0.65+/-	0.18	UJ	0.00+/-	0.02	UJ
Th-232	PIC/G	0.16+/-	0.07	J	0.37+/-	0.11	J	0.41+/-	0.09	J	0.48+/-	0.16	J	-0.03+/-	0.02	UJ
Tritium	PCI/G	0.0+/-	0	U	1.0+/-	1.5	U	0.6+/-	1.6	U	0.4+/-	1.4	U	0.5+/-	1.4	U
U-234	PCI/G	0.91+/-	0.24		0.65+/-	0.1	J	0.67+/-	0.12	J	0.65+/-	0.19		0.43+/-	0.13	
U-235	PCI/G	0.10+/-	0.07		0.01+/-	0.02	UJ	0.01+/-	0.02	UJ	0.06+/-	0.06		-0.01+/-	0.04	U
U-238	PCI/G	0.82+/-	0.23	J	0.65+/-	0.1	J	0.80+/-	0.13	J	0.76+/-	0.2	J	0.44+/-	0.13	J

APPENDIX F.2 TABLE OF ALL VALIDATED ANALYTICAL DATA FOR SOIL
OPERABLE UNIT 5, AOC 7

MOUND OPERATIONAL AREA		B12002			B12003			B13001			B13002			B13003		
		627717 REG			627705 REG			623156 REG			623159 REG			623164 REG		
		7/20/94			7/20/94			7/5/94			7/5/94			7/5/94		
		Result	UNC	Val	Result	UNC	Val	Result	UNC	Val	Result	UNC	Val	Result	UNC	Val
Radiological	Units															
Ac-227	PCI/G	0.28+/-	NA	U	0.29+/-	NA	U	0.25+/-	NA	U	0.29+/-	NA	U	0.28+/-	NA	U
Am-241	PCI/G	0.41+/-	NA	U	0.39+/-	NA	U	0.32+/-	NA	U	0.37+/-	NA	U	0.31+/-	NA	U
Bi-207	PCI/G	0.04+/-	NA	U	0.04+/-	NA	U	0.04+/-	NA	U	0.04+/-	NA	U	0.04+/-	NA	U
Bi-210m	PCI/G	0.08+/-	NA	U	0.07+/-	NA	U	0.06+/-	NA	U	0.07+/-	NA	U	0.07+/-	NA	U
Co-60	PCI/G	0.05+/-	NA	U	0.05+/-	NA	U	0.05+/-	NA	U	0.05+/-	NA	U	0.04+/-	NA	U
Cs-137	PCI/G	0.05+/-	NA	U	0.05+/-	NA	U	0.05+/-	NA	U	0.05+/-	NA	U	0.05+/-	NA	U
K-40	PCI/G	21.01+/-	1.33		24.70+/-	1.3		7.50+/-	0.88	U	18.86+/-	1.19		18.01+/-	1.17	
Pu-238	PIC/G	0.02+/-	0.06	U	-0.06+/-	0.19	UJ	0.12+/-	0.1	J	0.15+/-	0.13		-0.04+/-	0.14	U
Pu-239/40	PIC/G	-0.01+/-	0.02	U	0.01+/-	0.06	UJ	0.00+/-	0.05	UJ	-0.02+/-	0.07	U	0.00+/-	0.05	U
Ra-226	PCI/G	0.60+/-	0.11		0.66+/-	0.11		0.17+/-	NA	U	0.52+/-	0.09		0.44+/-	0.11	
Sr-90	PCI/G	-0.61+/-	0.55	U	0.02+/-	0.43	U	-0.76+/-	0.65	UJ	-0.32+/-	0.5	U	-0.34+/-	0.49	U
Th-228	PIC/G	0.67+/-	0.15	UJ	0.96+/-	0.13	UJ	0.37+/-	0.1		0.72+/-	0.16		1.01+/-	0.18	
Th-230	PIC/G	0.32+/-	0.1	UJ	0.37+/-	0.08	UJ	0.25+/-	0.08		0.43+/-	0.12		0.44+/-	0.11	
Th-232	PIC/G	0.29+/-	0.1	J	0.40+/-	0.08	J	0.05+/-	0.04		0.20+/-	0.08		0.35+/-	0.1	
Tritium	PCI/G	-0.1+/-	1.2	U	0.7+/-	1.5	U	0.0+/-	0	U	0.0+/-	0	U	0.2+/-	4.5	U
U-234	PCI/G	0.78+/-	0.17		0.53+/-	0.13		0.35+/-	0.08		0.68+/-	0.13	J	0.54+/-	0.13	
U-235	PCI/G	0.02+/-	0.04	U	0.03+/-	0.03		0.00+/-	0.02	U	0.00+/-	0.03	UJ	-0.04+/-	0.03	U
U-238	PCI/G	0.64+/-	0.15	J	0.65+/-	0.14	J	0.39+/-	0.09		0.65+/-	0.12	J	0.50+/-	0.13	

APPENDIX F.2 TABLE OF ALL VALIDATED ANALYTICAL DATA FOR SOIL
OPERABLE UNIT 5, AOC 7

MOUND OPERATIONAL AREA																
		B13004			B13005			B14001			B14002			B14004		
		623168 REG			623171 REG			REG			623933 REG			624448 REG		
		7/5/94			7/5/94			7/7/94			7/7/94			7/8/94		
		Result	UNC	Val	Result	UNC	Val	Result	UNC	Val	Result	UNC	Val	Result	UNC	Val
Radiological	Units															
Ac-227	PCI/G	0.24+/-	NA	U	0.25+/-	NA	U	0.22+/-	NA	U	0.31+/-	NA	U	0.25+/-	NA	U
Am-241	PCI/G	0.31+/-	NA	U	0.27+/-	NA	U	0.29+/-	NA	U	0.32+/-	NA	U	0.26+/-	NA	U
Bi-207	PCI/G	0.03+/-	N/A	U	0.04+/-	NA	U	0.03+/-	NA	U	0.04+/-	NA	U	0.03+/-	NA	U
Bi-210m	PCI/G	0.06+/-	N/A	U	0.06+/-	NA	U	0.06+/-	NA	U	0.07+/-	NA	U	0.05+/-	NA	U
Co-60	PCI/G	0.04+/-	N/A	U	0.03+/-	NA	U	0.04+/-	NA	U	0.05+/-	NA	U	0.03+/-	NA	U
Cs-137	PCI/G	0.04+/-	N/A	U	0.04+/-	NA	U	0.05+/-	NA	U	0.05+/-	NA	U	0.04+/-	NA	U
K-40	PCI/G	16.63+/-	1.01		10.66+/-	0.86		5.43+/-	0.73	U	18.88+/-	1.27		12.08+/-	0.82	
Pu-238	PIC/G	0.25+/-	0.14		0.00+/-	0.02	U	0.03+/-	0.13	U	0.61+/-	0.12		2.98+/-	0.44	
Pu-239/40	PIC/G	0.01+/-	0.07	U	0.00+/-	0.02	U	0.01+/-	0.07	U	-0.01+/-	0.02	U	0.27+/-	0.11	
Ra-226	PCI/G	0.40+/-	0.08		0.57+/-	0.08		0.36+/-	0.07		0.51+/-	0.1		0.64+/-	0.08	
Sr-90	PCI/G	-0.19+/-	0.55	UJ	-0.40+/-	0.73	UJ	0.00+/-	0	UJ	-0.41+/-	0.8	UJ	-0.08+/-	0.27	U
Th-228	PIC/G	0.67+/-	0.13	J	0.50+/-	0.12	J	0.64+/-	0.19		0.51+/-	0.1		1.48+/-	0.21	J
Th-230	PIC/G	0.39+/-	0.1	J	0.12+/-	0.06	J	0.68+/-	0.19		0.10+/-	0.04		1.14+/-	0.18	J
Th-232	PIC/G	0.05+/-	0.04	J	-0.02+/-	0.03	UJ	0.09+/-	0.07		0.02+/-	0.02	U	0.74+/-	0.14	J
Tritium	PCI/G	0.0+/-	0	U	0.7+/-	3.3	U	0.0+/-	0	U	0.0+/-	0	U	11.1+/-	3.3	U
U-234	PCI/G	0.55+/-	0.11		0.64+/-	0.16		0.35+/-	0.1	J	0.51+/-	0.11	J	0.84+/-	0.18	J
U-235	PCI/G	-0.02+/-	0.02	U	0.01+/-	0.04	U	-0.01+/-	0.03	UJ	0.04+/-	0.03	J	0.02+/-	0.04	UJ
U-238	PCI/G	0.53+/-	0.11		0.83+/-	0.19		0.32+/-	0.09	J	0.52+/-	0.11	J	0.88+/-	0.19	J

APPENDIX F.2 TABLE OF ALL VALIDATED ANALYTICAL DATA FOR SOIL
OPERABLE UNIT 5, AOC 7

MOUND OPERATIONAL AREA																
		B14104			B15001			B15002			B15003			B15004		
		624441 REG			629860 REG			629866 REG			629870 REG			629877 REG		
		07/08/94DUPE			7/27/94			7/27/94			7/27/94			7/27/94		
		Result	UNC	Val	Result	UNC	Val	Result	UNC	Val	Result	UNC	Val	Result	UNC	Val
Radiological	Units															
Ac-227	PCI/G	0.21+/-	NA	U	0.41+/-	NA	U	0.43+/-	NA	U	0.32+/-	NA	U	0.50+/-	NA	U
Am-241	PCI/G	0.23+/-	NA	U	0.53+/-	NA	U	0.60+/-	NA	U	0.35+/-	NA	U	0.64+/-	NA	U
Bi-207	PCI/G	0.03+/-	NA	U	0.06+/-	NA	U	0.07+/-	NA	U	0.05+/-	NA	U	0.07+/-	NA	U
Bi-210m	PCI/G	0.05+/-	NA	U	0.09+/-	NA	U	0.10+/-	NA	U	0.08+/-	NA	U	0.12+/-	NA	U
Co-60	PCI/G	0.03+/-	NA	U	0.06+/-	NA	U	0.07+/-	NA	U	0.04+/-	NA	U	0.08+/-	NA	U
Cs-137	PCI/G	0.04+/-	NA	U	0.17+/-	0.08	U	0.07+/-	0.06	U	0.06+/-	NA	U	0.08+/-	NA	U
K-40	PCI/G	9.20+/-	0.7	U	15.62+/-	1.52	J	17.90+/-	1.61	J	12.58+/-	1.11	J	27.98+/-	2.04	J
Pu-238	PIC/G	1.87+/-	0.23	J	0.65+/-	0.14	J	0.46+/-	0.12		0.06+/-	0.11	UJ	0.04+/-	0.13	U
Pu-239/40	PIC/G	-0.02+/-	0.05	UJ	-0.01+/-	0.06	UJ	0.04+/-	0.03		0.01+/-	0.04	UJ	0.02+/-	0.06	U
Ra-226	PCI/G	0.56+/-	0.07		0.28+/-	NA	U	0.30+/-	NA	U	0.22+/-	NA	U	0.70+/-	0.17	
Sr-90	PCI/G	-0.07+/-	0.51	U	0.64+/-	0.94	UJ	-0.35+/-	0.85	UJ	-0.54+/-	0.97	UJ	-0.59+/-	0.75	UJ
Th-228	PIC/G	0.66+/-	0.14		0.62+/-	0.16	U	0.49+/-	0.13	U	0.70+/-	0.23	UJ	1.29+/-	0.3	UJ
Th-230	PIC/G	0.44+/-	0.12		0.36+/-	0.12		0.30+/-	0.1		0.74+/-	0.24	J	0.62+/-	0.2	J
Th-232	PIC/G	0.24+/-	0.08		0.35+/-	0.12	J	0.06+/-	0.04	J	0.18+/-	0.11	J	0.63+/-	0.21	J
Tritium	PCI/G	0.9+/-	3.1	U	0.0+/-	0	U	1.2+/-	3.1	U	-0.2+/-	2.2	U	-1.4+/-	3.3	U
U-234	PCI/G	0.66+/-	0.13	J	0.57+/-	0.13		0.52+/-	0.11		0.47+/-	0.14		0.71+/-	0.14	
U-235	PCI/G	-0.02+/-	0.04	UJ	-0.01+/-	0.03	U	0.00+/-	0.03	U	0.02+/-	0.04	U	-0.01+/-	0.03	U
U-238	PCI/G	0.58+/-	0.12	J	0.55+/-	0.13	J	0.53+/-	0.11	J	0.68+/-	0.17	J	0.99+/-	0.17	J

APPENDIX F.2 TABLE OF ALL VALIDATED ANALYTICAL DATA FOR SOIL
OPERABLE UNIT 5, AOC 7

MOUND OPERATIONAL AREA		B15101			B16001			B16003			B16004			B16005		
		629862 REG			622381 REG			622366 REG			622666 REG			622680 REG		
		07/27/94DUPE			6/29/94			6/29/94			6/30/94			6/30/94		
		Result	UNC	Val	Result	UNC	Val	Result	UNC	Val	Result	UNC	Val	Result	UNC	Val
Radiological	**Units**															
Ac-227	PCI/G	0.42+/-	NA	U	0.39+/-	NA	U	0.39+/-	NA	U	8.88+/-	0.24		44.68+/-	1.25	
Am-241	PCI/G	0.42+/-	NA	U	0.41+/-	NA	U	0.39+/-	NA	U	0.61+/-	NA	U	1.32+/-	NA	U
Bi-207	PCI/G	0.06+/-	NA	U	0.05+/-	NA	U	0.06+/-	NA	U	0.05+/-	NA	U	0.05+/-	NA	U
Bi-210m	PCI/G	0.09+/-	NA	U	0.09+/-	NA	U	0.09+/-	NA	U	0.10+/-	NA	U	0.16+/-	NA	U
Co-60	PCI/G	0.05+/-	NA	U	0.05+/-	NA	U	0.06+/-	NA	U	0.05+/-	NA	U	0.04+/-	NA	U
Cs-137	PCI/G	0.10+/-	0.06	U	0.12+/-	0.07	U	0.11+/-	0.05		0.13+/-	0.04	U	0.07+/-	NA	U
K-40	PCI/G	15.91+/-	1.41	J	17.90+/-	1.35		16.67+/-	1.38		9.49+/-	0.98		9.15+/-	0.97	U
Pu-238	PIC/G	0.52+/-	0.13		0.43+/-	0.13		0.10+/-	0.05		-0.01+/-	0.12	UJ	-0.01+/-	0.14	UJ
Pu-239/40	PIC/G	-0.03+/-	0.06	U	0.02+/-	0.04	U	0.00+/-	0.02	U	0.01+/-	0.05	UJ	-0.01+/-	0.06	UJ
Ra-226	PCI/G	0.52+/-	0.13		0.83+/-	0.12		0.84+/-	0.13		0.71+/-	0.12		1.29+/-	0.14	
Sr-90	PCI/G	-0.94+/-	0.88	UJ	-0.07+/-	0.42	U	-0.27+/-	0.53	U	0.22+/-	0.63	UJ	-0.07+/-	0.61	UJ
Th-228	PIC/G	0.44+/-	0.13	U	0.88+/-	0.13	J	2.44+/-	0.27	J	0.63+/-	0.11	J	0.59+/-	0.16	
Th-230	PIC/G	0.24+/-	0.09		0.68+/-	0.11	J	0.28+/-	0.08	J	0.08+/-	0.04	J	0.24+/-	0.1	
Th-232	PIC/G	0.01+/-	0.03	UJ	0.58+/-	0.11	J	1.59+/-	0.21	J	0.09+/-	0.04	J	0.12+/-	0.07	
Tritium	PCI/G	-0.9+/-	1.7	U	0.0+/-	0	U	0.4+/-	1.5	U	1.8+/-	2.8	U	0.0+/-	0	U
U-234	PCI/G	0.68+/-	0.15		0.65+/-	0.15		1.95+/-	0.21	J	0.87+/-	0.14		0.51+/-	0.1	
U-235	PCI/G	0.07+/-	0.04		0.05+/-	0.04		0.00+/-	0.02	UJ	-0.01+/-	0.02	U	-0.01+/-	0.02	U
U-238	PCI/G	0.67+/-	0.14	J	0.78+/-	0.17		2.07+/-	0.22	J	0.94+/-	0.15		0.58+/-	0.11	

APPENDIX F.2 TABLE OF ALL VALIDATED ANALYTICAL DATA FOR SOIL
OPERABLE UNIT 5, AOC 7

MOUND OPERATIONAL AREA		B16006			B16007			B16107		
		REG			629207 REG			629213 REG		
		7/25/94			7/25/94			07/25/94DUPE		
		Result	UNC	Val	Result	UNC	Val	Result	UNC	Val
Radiological	Units									
Ac-227	PCI/G	0.26+/-	NA	U	0.29+/-	NA	U	0.28+/-	NA	U
Am-241	PCI/G	0.29+/-	NA	U	0.27+/-	NA	U	0.26+/-	NA	U
Bi-207	PCI/G	0.03+/-	NA	U	0.04+/-	NA	U	0.04+/-	NA	U
Bi-210m	PCI/G	0.05+/-	NA	U	0.06+/-	NA	U	0.06+/-	NA	U
Co-60	PCI/G	0.03+/-	NA	U	0.04+/-	NA	U	0.04+/-	NA	U
Cs-137	PCI/G	0.04+/-	NA	U	0.04+/-	NA	U	0.04+/-	NA	U
K-40	PCI/G	6.56+/-	0.71	UJ	9.44+/-	0.85	UJ	8.27+/-	0.87	UJ
Pu-238	PIC/G	0.01+/-	0.02	UJ	0.04+/-	0.15	UJ	0.01+/-	0.1	UJ
Pu-239/40	PIC/G	0.00+/-	0.02	UJ	0.03+/-	0.05	UJ	0.02+/-	0.03	UJ
Ra-226	PCI/G	0.37+/-	0.07		0.57+/-	0.09		0.57+/-	0.1	
Sr-90	PCI/G	-2.28+/-	1.25	UJ	-0.73+/-	1.05	UJ	-0.22+/-	0.79	UJ
Th-228	PIC/G	0.50+/-	0.14	U	0.56+/-	0.12	U	0.61+/-	0.15	U
Th-230	PIC/G	0.07+/-	0.05	J	0.03+/-	0.03	J	0.22+/-	0.09	J
Th-232	PIC/G	-0.01+/-	0.04	UJ	-0.03+/-	0.03	UJ	0.08+/-	0.06	J
Tritium	PCI/G	0.8+/-	1.9	U	1.6+/-	2.3	U	-0.3+/-	1.6	U
U-234	PCI/G	0.50+/-	0.17		0.57+/-	0.2		0.54+/-	0.11	
U-235	PCI/G	0.06+/-	0.06		0.06+/-	0.08	U	0.00+/-	0.02	U
U-238	PCI/G	0.46+/-	0.16	J	0.88+/-	0.26	J	0.62+/-	0.12	J

APPENDIX F.2 TABLE OF ALL VALIDATED ANALYTICAL DATA FOR GROUNDWATER OPERABLE UNIT 5, AOC 7

MOUND OPERATIONAL AREA											
		W03001		W11001		W13001		W13101		W14001	
		621390 REG		628138 REG		623331 REG		623333 REG		624359 REG	
		6/27/94		7/21/94		7/6/94		07/06/94DUPE		7/8/94	
		Result	Val	Result	Val	Result	Val	Result	Val	Result	Val
Volatile Organics	Units										
Acetone	UG/L	10	U	10	U	10	U	10	U	10	U
Acetonitrile	UG/L	100	U	100	U	100	U	100	U	100	U
Acrylonitrile	UG/L	100	U	100	U	100	U	100	U	100	U
Benzene	UG/L	5	U	5	U	5	U	5	U	5	U
Bromodichloromethane	UG/L	5	U	5	U	5	U	5	U	5	U
Bromoform	UG/L	5	U	5	U	5	U	5	U	5	U
Bromomethane	UG/L	10	U	10	U	10	U	10	U	10	U
2-Butanone	UG/L	10	U	10	U	10	U	10	U	10	U
Carbon Disulfide	UG/L	5	U	5	U	5	U	5	U	5	U
Carbon Tetrachloride	UG/L	5	U	5	U	5	U	5	U	5	U
Chlorobenzene	UG/L	5	U	5	U	5	U	5	U	5	U
Chlorodibromomethane	UG/L	5	U	5	U	5	U	5	U	5	U
Chloroethane	UG/L	10	U	10	U	10	U	10	U	10	U
Chloroform	UG/L	1	J	5	U	5	U	5	U	5	U
Chloromethane	UG/L	10	U	10	UJ	10	U	10	U	10	U
1,1-Dichloroethane	UG/L	5	U	5	U	5	U	5	U	5	U
1,2-Dichloroethane	UG/L	5	U	5	U	5	U	5	U	5	U
1,1-Dichloroethene	UG/L	5	U	5	U	5	U	5	U	5	U
1,2-Dichloroethene	UG/L	10	U	5	U	10	U	10	U	5	U
1,2-Dichloropropane	UG/L	5	U	5	U	5	U	5	U	5	U
cis-1,3-Dichloropropene	UG/L	5	U	5	U	5	U	5	U	5	U
trans-1,3-Dichloropropene	UG/L	5	U	5	U	5	U	5	U	5	U
1,2-Diethylbenzene	UG/L	5	U	5	U	5	U	5	U	5	U
Ethylbenzene	UG/L	5	U	5	U	5	U	5	U	5	U
Hexane	UG/L	10	U	10	U	10	U	10	U	10	U
2-Hexanone	UG/L	10	U	10	U	10	U	10	U	10	U
Iodomethane	UG/L	5	U	5	U	5	U	5	U	5	U
4-Methyl-2-pentanone	UG/L	10	U	10	U	10	U	10	U	10	U
Methylene Chloride	UG/L	5	U	5	U	8	U	8	U	11	U
Styrene	UG/L	5	U	5	U	5	U	5	U	5	U
1,1,2,2-Tetrachloroethane	UG/L	5	U	5	U	5	U	5	U	5	U
Tetrachloroethene	UG/L	5	U	5	U	5	U	5	U	5	U
Toluene	UG/L	5	U	5	U	5	U	5	U	5	U
1,1,1-Trichloroethane	UG/L	5	U	5	U	5	U	5	U	5	U
1,1,2-Trichloroethane	UG/L	5	U	5	U	5	U	5	U	5	U
Trichloroethene	UG/L	5	U	5		5	U	5	U	5	U

APPENDIX F.2 TABLE OF ALL VALIDATED ANALYTICAL DATA FOR GROUNDWATER OPERABLE UNIT 5, AOC 7

Trichlorotrifluoroethane	UG/L	5	U	5	U	5	U	5	U	5	U
Vinyl Acetate	UG/L	10	U	10	U	10	U	10	U	10	U
Vinyl Chloride	UG/L	10	U	10	U	10	U	10	U	10	U
Xylene, Total	UG/L	10	U	5	U	10	U	10	U	10	U
Tentatively Identified Compounds						1		1			

APPENDIX F.2 TABLE OF ALL VALIDATED ANALYTICAL DATA FOR GROUNDWATER OPERABLE UNIT 5, AOC 7

MOUND OPERATIONAL AREA											
		W03001		W11001		W13001		W13101		W14001	
		REG		628470 REG		REG		REG		REG	
		6/27/94		7/21/94		7/6/94		07/06/94DUPE		7/8/94	
		Result	Val	Result	Val	Result	Val	Result	Val	Result	Val
Volatile Organics - Method 8010	Units										
c-1,2-Dichloroethene	UG/L	0.3	U	0.3	UJ	0.3	U	0.3	U	0.27	J
trans-1,2-Dichloroethene	UG/L	0.3	U	0.3	U	0.3	U	0.3	U	0.03	J
Trichlorofluoromethane	UG/L	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U
Trichlorotrifluoroethane	UG/L	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U

APPENDIX F.2 TABLE OF ALL VALIDATED ANALYTICAL DATA FOR GROUNDWATER OPERABLE UNIT 5, AOC 7

MOUND OPERATIONAL AREA		W03001		W11001		W13001		W13101		W14001	
		621390 REG		628138 REG		623331 REG		623333 REG		624359 REG	
		6/27/94		7/21/94		7/6/94		07/06/94DUPE		7/8/94	
		Result	Val	Result	Val	Result	Val	Result	Val	Result	Val
Semi-volatile Organics	Units										
Acenaphthene	UG/L	10	U	10	U	10	U	10	U	10	U
Acenaphthylene	UG/L	10	U	10	U	10	U	10	U	10	U
Anthracene	UG/L	10	U	10	U	10	U	10	U	10	U
Benzo(a)anthracene	UG/L	10	U	10	U	10	U	10	U	10	U
Benzo(a)pyrene	UG/L	10	U	10	U	10	U	10	U	10	U
Benzo(b)fluoranthene	UG/L	10	U	10	U	10	U	10	U	10	U
Benzo(g,h,i)perylene	UG/L	10	U	10	U	10	U	10	U	10	U
Benzo(k)fluoranthene	UG/L	10	U	10	U	10	U	10	U	10	U
Benzoic Acid	UG/L	50	U	50	U	6	J	5	J	2	J
Benzyl Alcohol	UG/L	10	U	10	U	10	U	10	U	10	U
2-Benzyl-4-Chlorophenol	UG/L	10	U	10	U	10	U	10	U	10	U
bis(2-Chloroethoxy)methane	UG/L	10	U	10	U	10	U	10	U	10	U
bis(2-Chloroethyl)ether	UG/L	10	U	10	U	10	U	10	U	10	U
bis(2-Ethylhexyl)phthalate	UG/L	10	U	2	J	10	U	10	U	8	J
4-Bromophenyl-phenylether	UG/L	10	U	10	U	10	U	10	U	10	U
Butylbenzylphthalate	UG/L	10	U	10	U	10	U	10	U	10	U
Carbazole	UG/L	10	U	10	U	10	U	10	U	10	U
4-Chloro-3-methylphenol	UG/L	10	U	10	U	10	U	10	U	10	U
4-Chloroaniline	UG/L	10	U	10	UJ	10	U	10	U	10	U
2-Chloronaphthalene	UG/L	10	U	10	U	10	U	10	U	10	U
2-Chlorophenol	UG/L	10	U	10	U	10	U	10	U	10	U
4-Chlorophenyl-phenylether	UG/L	10	U	10	U	10	U	10	U	10	U
Chrysene	UG/L	10	U	10	U	10	U	10	U	10	U
Di-n-butylphthalate	UG/L	10	U	10	U	10	U	10	U	10	U
Di-n-octylphthalate	UG/L	10	U	10	U	10	U	10	U	10	U
Dibenzo(a,h)anthracene	UG/L	10	U	10	U	10	U	10	U	10	U
Dibenzofuran	UG/L	10	U	10	U	10	U	10	U	10	U
1,2-Dichlorobenzene	UG/L	10	U	10	U	10	U	10	U	10	U
1,3-Dichlorobenzene	UG/L	10	U	10	U	10	U	10	U	10	U
1,4-Dichlorobenzene	UG/L	10	U	10	U	10	U	10	U	10	U
3,3'-Dichlorobenzidine	UG/L	20	U	20	U	20	U	20	U	20	U
2,4-Dichlorophenol	UG/L	10	U	10	U	10	U	10	U	10	U
Diethylphthalate	UG/L	10	U	10	U	10	U	10	U	10	U
2,4-Dimethylphenol	UG/L	10	U	10	U	10	U	10	U	10	U
Dimethylphthalate	UG/L	10	U	10	U	10	U	10	U	10	U
4,6-Dinitro-2-methylphenol	UG/L	50	U	50	U	50	U	50	U	50	U

APPENDIX F.2 TABLE OF ALL VALIDATED ANALYTICAL DATA FOR GROUNDWATER OPERABLE UNIT 5, AOC 7

2,4-Dinitrophenol	UG/L	50	U	50	U	50	U	50	U	50	U
2,4-Dinitrotoluene	UG/L	10	U	10	U	10	U	10	U	10	U
2,6-Dinitrotoluene	UG/L	10	U	10	U	10	U	10	U	10	U
Fluoranthene	UG/L	10	U	10	U	10	U	10	U	10	U
Fluorene	UG/L	10	U	10	U	10	U	10	U	10	U
Hexachlorobenzene	UG/L	10	U	10	U	10	U	10	U	10	U
Hexachlorobutadiene	UG/L	10	U	10	U	10	U	10	U	10	U
Hexachlorocyclopentadiene	UG/L	10	U	10	U	10	U	10	U	10	U
Hexachloroethane	UG/L	10	U	10	U	10	U	10	U	10	U
Indeno(1,2,3-c,d)pyrene	UG/L	10	U	10	U	10	U	10	U	10	U
Isophorone	UG/L	10	U	10	U	10	U	10	U	10	U
2-Methylnaphthalene	UG/L	10	U	10	U	10	U	10	U	10	U
2-Methylphenol	UG/L	10	U	10	U	10	U	10	U	10	U
4-Methylphenol	UG/L	10	U	10	U	10	U	10	U	10	U
N-Nitroso-di-n-propylamine	UG/L	10	U	10	U	10	U	10	U	10	U
N-Nitrosodiphenylamine	UG/L	10	U	10	UJ	10	U	10	U	10	U
Naphthalene	UG/L	10	U	10	U	10	U	10	U	10	U
2-Nitroaniline	UG/L	50	U	50	U	50	U	50	U	50	U
3-Nitroaniline	UG/L	50	U	50	U	50	U	50	U	50	U
4-Nitroaniline	UG/L	50	U	50	U	50	U	50	U	50	U
Nitrobenzene	UG/L	10	U	10	U	10	U	10	U	10	U
2-Nitrophenol	UG/L	10	U	10	U	10	U	10	U	10	U
4-Nitrophenol	UG/L	50	U	50	U	50	U	50	U	50	U
2,2'-oxybis(1-Chloropropane)	UG/L	10	U	10	U	10	U	10	U	10	U
Pentachlorophenol	UG/L	50	U	50	U	50	U	50	U	50	U
Phenanthrene	UG/L	10	U	10	U	10	U	10	U	10	U
Phenol	UG/L	10	U	10	U	10	U	10	U	3	J
Pyrene	UG/L	10	U	10	U	10	U	10	U	10	U
1,2,4-Trichlorobenzene	UG/L	10	U	10	U	10	U	10	U	10	U
2,4,5-Trichlorophenol	UG/L	50	U	50	U	50	U	50	U	50	U
2,4,6-Trichlorophenol	UG/L	10	U	10	U	10	U	10	U	10	U
Tentatively Identified Compounds		2		19		11		12		16	

APPENDIX F.2 TABLE OF ALL VALIDATED ANALYTICAL DATA FOR GROUNDWATER
OPERABLE UNIT 5, AOC 7

MOUND OPERATIONAL AREA											
		W03001		W11001		W13001		W13101		W14001	
		621390 REG		628470 REG		623331 REG		623333 REG		624359 REG	
		6/27/94		7/21/94		7/6/94		07/06/94DUPE		7/8/94	
		Result	Val	Result	Val	Result	Val	Result	Val	Result	Val
Pesticides and PCBs	Units										
Aldrin	UG/L	0.05	UJ	0.05	U	0.05	UJ	0.05	UJ	0.05	UJ
alpha-BHC	UG/L	0.05	UJ	0.05	U	0.05	UJ	0.05	UJ	0.05	UJ
alpha-Chlordane	UG/L	0.05	UJ	0.05	U	0.05	UJ	0.05	UJ	0.01	UJ
Aroclor-1016	UG/L	0.5	UJ	0.5	U	0.5	UJ	0.5	UJ	0.5	UJ
Aroclor-1221	UG/L	0.5	UJ	0.5	U	0.5	UJ	0.5	UJ	0.5	UJ
Aroclor-1232	UG/L	0.5	UJ	0.5	U	0.5	UJ	0.5	UJ	0.5	UJ
Aroclor-1242	UG/L	0.5	UJ	0.5	U	0.5	UJ	0.5	UJ	0.5	UJ
Aroclor-1248	UG/L	0.5	UJ	0.5	U	0.5	UJ	0.5	UJ	0.5	UJ
Aroclor-1254	UG/L	0.5	UJ	0.5	U	0.5	UJ	0.5	UJ	0.38	J
Aroclor-1260	UG/L	0.5	UJ	0.5	U	0.5	UJ	0.5	UJ	0.5	UJ
beta-BHC	UG/L	0.05	UJ	0.05	U	0.05	UJ	0.05	UJ	0.05	UJ
4,4'-DDD	UG/L	0.1	UJ	0.1	U	0.1	UJ	0.1	UJ	0.1	UJ
4,4'-DDE	UG/L	0.1	UJ	0.1	U	0.1	UJ	0.1	UJ	0.1	UJ
4,4'-DDT	UG/L	0.1	UJ	0.1	U	0.1	UJ	0.1	UJ	0.1	UJ
delta-BHC	UG/L	0.05	UJ	0.05	U	0.05	UJ	0.05	UJ	0.05	UJ
Dieldrin	UG/L	0.1	UJ	0.1	U	0.1	UJ	0.1	UJ	0.1	UJ
Endosulfan I	UG/L	0.05	UJ	0.05	U	0.05	UJ	0.05	UJ	0.05	UJ
Endosulfan II	UG/L	0.1	UJ	0.1	U	0.1	UJ	0.1	UJ	0.1	UJ
Endosulfan Sulfate	UG/L	0.1	UJ	0.1	U	0.1	UJ	0.1	UJ	0.1	UJ
Endrin	UG/L	0.1	UJ	0.1	U	0.1	UJ	0.1	UJ	0.1	UJ
Endrin Aldehyde	UG/L	0.1	UJ	0.1	U	0.1	UJ	0.1	UJ	0.1	UJ
Endrin Ketone	UG/L	0.1	UJ	0.1	U	0.1	UJ	0.1	UJ	0.0061	U
gamma-BHC (Lindane)	UG/L	0.05	UJ	0.05	U	0.05	UJ	0.05	UJ	0.05	UJ
gamma-Chlordane	UG/L	0.05	UJ	0.05	U	0.05	UJ	0.05	UJ	0.05	UJ
Heptachlor	UG/L	0.05	UJ	0.05	U	0.05	UJ	0.05	UJ	0.05	UJ
Heptachlor Epoxide	UG/L	0.05	UJ	0.05	U	0.05	UJ	0.05	UJ	0.05	UJ
p,p'-Methoxychlor	UG/L	0.5	UJ	0.5	U	0.5	UJ	0.5	UJ	0.5	UJ
Toxaphene	UG/L	5	UJ	5	U	5	UJ	5	UJ	5	UJ

APPENDIX F.2 TABLE OF ALL VALIDATED ANALYTICAL DATA FOR GROUNDWATER OPERABLE UNIT 5, AOC 7

MOUND OPERATIONAL AREA											
		W03001		W11001		W13001		W13101		W14001	
		621418 REG		628139 REG		623375 REG		623387 REG		624360 REG	
		6/27/94		7/21/94		7/6/94		07/06/94DUPE		7/8/94	
		Result	Val	Result	Val	Result	Val	Result	Val	Result	Val
Explosives	Units										
2-Amino-4,6-dinitrotoluene	UG/L	3	UJ	3	U	2.2	J	0.0041	J	3	U
1,3-Dinitrobenzene	UG/L	15	UJ	15	U	15	U	15	U	0.19	J
2,4-Dinitrotoluene	UG/L	0.5	UJ	0.5	U	0.5	U	0.5	U	0.5	U
2,6-Dinitrotoluene	UG/L	0.5	UJ	0.5	U	0.5	U	0.5	U	0.5	U
HMX	UG/L	20	UJ	20	U	20	U	20	U	20	U
Nitrobenzene	UG/L	15	UJ	15	U	15	U	15	U	15	U
PETN	UG/L	1	R	1	R	1	R	1	R	1	R
RDX	UG/L	6	UJ	0.9	J	6	U	6	U	6	U
Tetryl	UG/L	3	UJ	3	U	3	U	3	U	3	U
1,3,5-Trinitrobenzene	UG/L	15	UJ	1.1	J	0.23	J	15	UJ	15	U
2,4,6-Trinitrotoluene	UG/L	3	UJ	3	U	3	U	3	U	3	U

APPENDIX F.2 TABLE OF ALL VALIDATED ANALYTICAL DATA FOR GROUNDWATER OPERABLE UNIT 5, AOC 7

MOUND OPERATIONAL AREA											
		W03001		W11001		W13001		W13101		W14001	
		621419 REG		628140 REG		623376 REG		623388 REG		624361 REG	
		6/27/94		7/21/94		7/6/94		07/06/94DUPE		7/8/94	
		Result	Val	Result	Val	Result	Val	Result	Val	Result	Val
Total Organic Carbon	Units										
Organic Carbon	MG/L	2.48		1.36	J	1	U	3.45		1	U
Organic Carbon	MG/L	2.53		1.58	J	1	U	3.47		1	U
Organic Carbon	MG/L	2.46		1.21	J	1	U	3.54		1	U
Organic Carbon	MG/L	2.47		1.48	J	1	U	3.74		1	U

APPENDIX F.2 TABLE OF ALL VALIDATED ANALYTICAL DATA FOR GROUNDWATER OPERABLE UNIT 5, AOC 7

MOUND OPERATIONAL AREA											
		W11001		W13001		W13101		W14001		W03001	
		628141 REG		WATER62334 REG		WATER62334 REG		WATER62436 REG		621392 REG	
		7/21/94		7/6/94		07/06/94DUPE		7/8/94		6/27/94	
		Result	Val	Result	Val	Result	Val	Result	Val	Result	Val
Inorganics	Units										
Aluminum	UG/L	3180	J	6030	J	8410	J	13000	J	a	
Antimony	UG/L	1.5	U	1	U	1	U	2.6		a	
Arsenic	UG/L	2	U	7.8		10.6		9		a	
Barium	UG/L	70.9		143		155		165		a	
Beryllium	UG/L	0.1	U	0.1	U	0.1	U	0.1	U	a	
Bismuth	UG/L	2	R	160		156		92.3		268	
Cadmium	UG/L	0.3	U	0.3	U	0.3	U	0.3	U	a	
Calcium	UG/L	127000		232000		249000		76200		a	
Chromium	UG/L	0.5	R	18.3	U	30.1		47.2		a	
Cobalt	UG/L	3.3		5.9		7.7		6.7		a	
Copper	UG/L	3.5	J	12.5		17.2		106		a	
Cyanide	UG/L	20	U	20	U	20	R	20	U	a	
Iron	UG/L	4280	J	17500	J	22100	J	19200	J	a	
Lead	UG/L	3.2	U	4.7		6.9		27.4		a	
Magnesium	UG/L	47400		63500		69800		22200		a	
Manganese	UG/L	323		1590		1690		663		a	
Mercury	UG/L	0.2	U	0.2	U	0.2	U	0.2	U	a	
Nickel	UG/L	1.5	U	30.7	U	39.2	U	20.1	U	a	
Potassium	UG/L	10700	J	8430	J	9520	J	10400	J	a	
Selenium	UG/L	3	U	3	U	3	U	3	U	a	
Silver	UG/L	0.4	U	0.4	U	0.4	U	9.3		a	
Sodium	UG/L	63200		200000		206000		285000		a	
Thallium	UG/L	3.6		3	U	3	U	3	U	a	
Tin	UG/L	47	UJ	47	UJ	47	UJ	47	UJ	47	U
Vanadium	UG/L	5.5		10.7		15.1		21.2		a	
Zinc	UG/L	13.2		40.8		55.8		195		a	

APPENDIX F.2 TABLE OF ALL VALIDATED ANALYTICAL DATA FOR GROUNDWATER OPERABLE UNIT 5, AOC 7

MOUND OPERATIONAL AREA											
		W03001		W11001		W13001		W13101		W14001	
		621417 REG		628144 REG		623377 REG		623391 REG		624371 REG	
		6/27/94		7/21/94		7/6/94		07/06/94DUPE		7/8/94	
		Result	Val	Result	Val	Result	Val	Result	Val	Result	Val
Anions	Units										
Chloride	MG/L	866		153		632		619		443	
Fluoride	MG/L	0.58		0.492		0.157		0.13		0.298	
Nitrate-Nitrite-N	MG/L	1.22	J	0.0703		0.057		0.086		0.09	
Sulfate	MG/L	25.5		60.5		46.3	J	75.2	J	45.2	J

APPENDIX F.2 TABLE OF ALL VALIDATED ANALYTICAL DATA FOR GROUNDWATER
OPERABLE UNIT 5, AOC 7

MOUND OPERATIONAL AREA											
		W03001		W11001		W13001		W13101		W14001	
		621392 REG		628141 REG		623341 REG		623343 REG		624362 REG	
		6/27/94		7/21/94		7/6/94		07/06/94DUPE		7/8/94	
		Result	Val	Result	Val	Result	Val	Result	Val	Result	Val
Lanthanides	Units										
Cerium	UG/L	65.6	U	52		60.8	U	52	U	52	U
Dysprosium	UG/L	11	U	11		11	U	11	U	11	U
Erbium	UG/L	30	U	30		30	U	30	U	30	U
Europium	UG/L	4		4		4	U	4	U	4	U
Gadolinium	UG/L	168		65		167	J	181	J	31	UJ
Holmium	UG/L	10		9		10	U	10	U	10	U
Lanthanum	UG/L	11	U	17		17	U	17	U	17	U
Lutetium	UG/L	2	U	2		2	U	2	U	2	U
Neodymium	UG/L	21	U	50		58	U	58	U	58	U
Praseodym	UG/L	50	U	32		50	U	50	U	50	U
Samarium	UG/L	82		82		82	U	82	U	82	U
Terbium	UG/L	60	U	60		60	U	60	U	60	U
Thulium	UG/L	10	U	10		10	U	10	U	10	U
Ytterbium	UG/L	2	U	15		2	U	2	U	2	U

APPENDIX F.2 TABLE OF ALL VALIDATED ANALYTICAL DATA FOR GROUNDWATER OPERABLE UNIT 5, AOC 7

MOUND OPERATIONAL AREA																
		W03001			W11001			W13001			W13101			W14001		
		621425 REG			628153 REG			623301 REG			623305 REG			624389 REG		
		6/27/94			7/21/94			7/6/94			07/06/94DUPE			7/8/94		
		Result	UNC	Val	Result	UNC	Val	Result	UNC	Val	Result	UNC	Val	Result	UNC	Val
Radiological	**Units**															
Ac-227	PCI/L	34.98+/-	NA	U	38.13+/-	NA	U	39.07+/-	NA	U	38.23+/-	NA	U	37.26+/-	NA	U
Am-241	PCI/L	0.27+/-	0.41	U	0.09+/-	0.16	UJ	0.73+/-	0.3	J	0.25+/-	0.28	UJ	0.23+/-	0.27	UJ
Bi-207	PCI/L	6.18+/-	NA	U	6.60+/-	NA	U	6.9+/-	NA	U	6.6+/-	NA	U	5.81+/-	NA	U
Bi-210m	PCI/L	9.62+/-	NA	U	10.14+/-	NA	U	10.42+/-	NA	U	10+/-	NA	U	9.67+/-	NA	U
Co-60	PCI/L	6.54+/-	NA	U	6.00+/-	NA	U	6.87+/-	NA	U	7.07+/-	NA	U	6.23+/-	NA	U
Cs-137	PCI/L	7.40+/-	NA	U	7.53+/-	NA	U	7.72+/-	NA	U	7.72+/-	NA	U	6.46+/-	NA	U
K-40	PCI/L	197.01+/-	NA	U	170.52+/-	NA	U	199.9+/-	121.5		164.41+/-	NA	U	182.64+/-	NA	U
Pu-238	PIC/L	-0.26+/-	0.41	UJ	-0.02+/-	0.26	U	0.04+/-	0.34	UJ	-0.02+/-	0.3	UJ	2.29+/-	0.42	J
Pu-239/40	PIC/L	-0.02+/-	0.19	UJ	0.09+/-	0.11	U	-0.02+/-	0.17	UJ	-0.05+/-	0.16	UJ	0.00+/-	0.08	UJ
Ra-226	PCI/L	0.81+/-	0.18	J	0.64+/-	0.17	J	0.73+/-	0.16	J	0.78+/-	0.16	J	0.65+/-	0.19	J
Sr-90	PCI/L	2.41+/-	2.44	U	-0.88+/-	1.99	U	-0.90+/-	2.16	U	-2.17+/-	2.49	U	0.57+/-	1.16	U
Th-228	PIC/L	1.24+/-	0.37		1.53+/-	0.34	UJ	1.16+/-	0.25	J	1.19+/-	0.22	J	0.95+/-	0.21	J
Th-230	PIC/L	0.48+/-	0.19		0.18+/-	0.11	UJ	0.58+/-	0.18	J	0.03+/-	0.04	UJ	-0.01+/-	0.05	UJ
Th-232	PIC/L	0.32+/-	0.15	J	0.06+/-	0.08	UJ	0.15+/-	0.09	J	0.06+/-	0.05	J	-0.01+/-	0.05	U
Tritium	PCI/L	1241.9+/-	445.5	J	2373.7+/-	492.6		8,358.9+/-	601.6		8,022.2+/-	589.9		2,753.0+/-	452.7	
U-234	PCI/L	2.66+/-	0.41	J	0.44+/-	0.18		0.23+/-	0.13	J	0.50+/-	0.18	J	0.62+/-	0.21	J
U-235	PCI/L	0.05+/-	0.06	U	0.29+/-	0.15		0.07+/-	0.09	UJ	0.03+/-	0.07	UJ	0.21+/-	0.12	J
U-238	PCI/L	2.29+/-	0.38	J	0.18+/-	0.12		0.36+/-	0.17	J	0.68+/-	0.21	J	0.40+/-	0.16	J

APPENDIX F.2 TABLE OF ALL VALIDATED ANALYTICAL DATA FOR GROUNDWATER OPERABLE UNIT 5, AOC 7

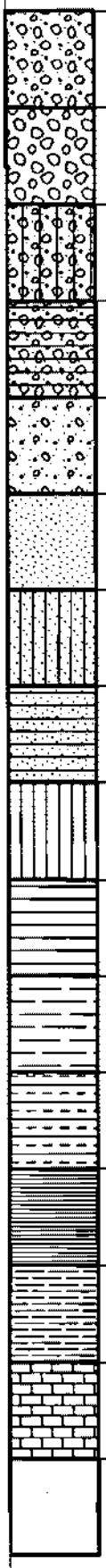
MOUND OPERATIONAL AREA				
		W16001		
		622721 REG		
		6/30/94		
		Result	UNC	Val
Radiological	**Units**			
Ac-227	PCI/L	39.68+/-	NA	U
Am-241	PCI/L	0.26+/-	0.26	U
Bi-207	PCI/L	6.63+/-	NA	U
Bi-210m	PCI/L	10.45+/-	NA	U
Co-60	PCI/L	6.69+/-	NA	U
Cs-137	PCI/L	7.37+/-	NA	U
K-40	PCI/L	179.71+/-	NA	U
Pu-238	PIC/L	0.01+/-	0.06	UJ
Pu-239/40	PIC/L	0.00+/-	0.06	UJ
Ra-226	PCI/L	0.55+/-	0.19	J
Sr-90	PCI/L	-0.88+/-	1.82	U
Th-228	PIC/L	0.87+/-	0.33	J
Th-230	PIC/L	0.55+/-	0.19	
Th-232	PIC/L	0.10+/-	0.08	
Tritium	PCI/L	736.8+/-	558.9	
U-234	PCI/L	2.94+/-	0.52	J
U-235	PCI/L	0.39+/-	0.18	
U-238	PCI/L	3.49+/-	0.58	

APPENDIX F.2 TABLE OF ALL VALIDATED ANALYTICAL DATA FOR GROUNDWATER OPERABLE UNIT 5, AOC 7

MOUND OPERATIONAL AREA											
		W03001		W11001		W13001		W13101		W14001	
		621408 REG		628147 REG		623380 REG		623396 REG		624367 REG	
		6/27/94		7/21/94		7/6/94		07/06/94DUPE		7/8/94	
		Result	Val	Result	Val	Result	Val	Result	Val	Result	Val
Miscellaneous	Units										
Alkalinity as Calcium Carbonat	MG/L	367		310		478		487		445	
Dissolved Solids	MG/L	1740		1040		2140		2060		1190	
Kjeldahl Nitrogen	MG/L	0.528		0.225	J	0.574		0.653		1.37	
Suspended Solids	MG/L	9		370		284		308		660	
Total Phosphorus	MG/L	0.896		0.644		0.158		0.218		0.542	

APPENDIX G
BOREHOLE PROFILES
(SOIL BORINGS B01-B16)

GTGS PATTERNS FOR BORING LOGS



GW Well graded gravels, gravel-sand mixtures, little or no fines

GP Poorly graded gravels, gravel-sand mixtures, little or no fines

GM Silty gravels, gravel-sand-silt mixtures

GC Clayey geavels, gravel-sand-clay mixtures

SW Well graded sands, gravelly sands, little or no fines

SP Poorly graded sands, gravelly sands, little or no fines

SM Silty sands, sand-silt mixtures

SC Clayey sands, sand-clay mixtures

ML Inorganic silts and very fine sands, silty or clayey fine sands or clayey silts with slight plasticity

CL Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, silty clays, lean clays

CH Inorganic clays of high plasticity, fat clays

OH Organic clays of medium to high plasticity organic silts

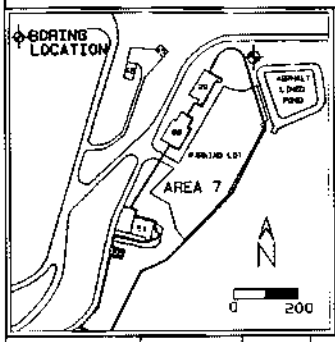
PT Peat, humus, swamp soils with high organic content

SHALE

Interbedded shale and limestone bedrock

No recovery or not recorded

MOUND / AREA 7	OU5 OPERATIONAL AREA PHASE I RI/FS FIELD INVESTIGATION	SOIL BORING B01	Page 1 of 2



Area of Concern: Area 7
Drilling Company: Bowser-Morner
Drilling Method: 8 in. Hollow-Stem Auger
Drilling Dates: 6/20/94, 6/21/94
Logged By: Greg Loder
Total Depth (ft BGS): 35.5

COORDINATES
State Plane; Northing: 598860.8950
Easting: 1497164.5700
Mound Plant; South: 1815.5554
West: 1925.5974
Ground Surface Elevation (ft MSL): 808.81

GROUNDWATER	DEPTH (ft BGS)	COMMENTS
		None encountered

BLOW COUNTS	RECOVERY (ft)	F.I.D. (ppm)	DEPTH (ft BGS)	SAMPLES Geotech.	SAMPLES Water	SAMPLES Soil	LITHOLOGY	USCS	DESCRIPTION / COMMENTS
NA	2.0	0				B01001		GM	0-2.0 SILT and GRAVEL, trace medium sand; non-plastic; angular to subangular pebbles and cobbles; loose; poorly sorted; dry; 10YR3/1 very dark grey.
			4						No sample taken.
38 17 22 32	1.7	0				B01002		GM	5.0-7.0 SILT and GRAVEL, trace medium sand; non-plastic; angular to subangular pebbles and cobbles; loose; poorly sorted; dry; 10YR3/1 very dark grey.
			8	B01021					7.0-9.0 Shelby Tube sample taken.
									No sample taken.
10 64 15 15	2.3	0				B01003		CH	10.0-12.0 CLAY, trace gravel; plastic; subangular to subrounded granules and pebbles; firm; poorly sorted; moist; 10YR3/3 dark brown.
			12						No sample taken.
17 14 15 19	1.8	0	16			B01004		CL	15.0-17.0 CLAY, trace fine sand; plastic; soft; poorly sorted; moist; 10YR4/1 dark grey.
				B01022					17.0-19.0 Shelby Tube sample taken.
									No sample taken.
40 66 40 31	2.7	0.8	20			B01005		CH	20.0-22.0 CLAY, trace coarse sand; plastic; soft; poorly sorted; moist 10YR4/1 dark grey.
				B01023					22.0-24.0 Shelby Tube sample taken.
			24						No sample taken.
15 38 100/5	3.3	0				B01006		CH	25.0-27.0 CLAY, trace coarse sand and gravel; slightly plastic; firm; poorly sorted; moist; 10YR4/1 dark grey.
			28						No sample taken.

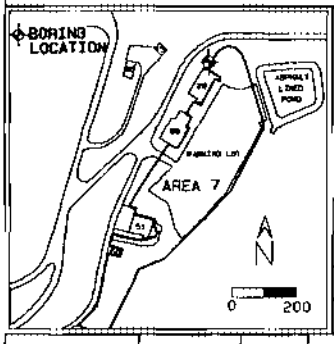
MOUND / AREA 7	OU5 OPERATIONAL AREA PHASE I RI/FS FIELD INVESTIGATION	SOIL BORING B01	Page 2 of 2

BLOW COUNTS	RECOVERY (ft)	F.I.D. (ppm)	DEPTH (ft BGS)	SAMPLES: Geotech.	SAMPLES: Water	SAMPLES: Soil	LITHOLOGY	USCS	
22 30 45 44	2.0	18.0				B01007		CH	30.0–32.0 CLAY, trace coarse sand and gravel; slightly plastic; firm; poorly sorted; moist; 10YR4/1 dark grey.
			32						No sample taken.
35 100/2	0	0							35.0–35.5 Interbedded shale and limestone bedrock. Bottom of boring at 35.5 ft.
			36						
			40						
			44						
			48						
			52						
			56						
			60						

MOUND / AREA 7

OU5 OPERATIONAL AREA PHASE I RI/FS FIELD INVESTIGATION

SOIL BORING B02



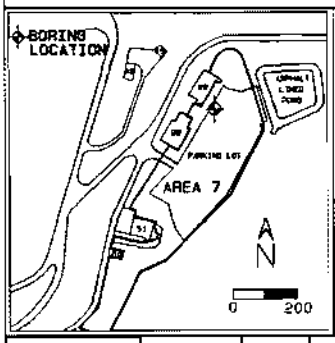
Area of Concern: Area 7
Drilling Company: Bowser-Morner
Drilling Method: 8 in. Hollow-Stem Auger
Drilling Dates: 6/21/94
Logged By: Greg Loder
Total Depth (ft BGS): 7.5

COORDINATES
State Plane; Northing: 598838.5860
Easting: 1497028.9700
Mound Plant; South: 1779.8551
West: 2058.3021
Ground Surface Elevation (ft MSL): 814.82

GROUNDWATER	DEPTH (ft BGS)	COMMENTS
		None encountered

BLOW COUNTS	RECOVERY (ft)	F.I.D. (ppm)	DEPTH (ft BGS)	SAMPLES: Geotech.	SAMPLES: Water	SAMPLES: Soil	LITHOLOGY	USCS	DESCRIPTION / COMMENTS
NA	2.0	0				B02001		GM	0–0.5 Asphalt 0.5–2.0 SAND and GRAVEL, trace silt; very fine to very coarse sand, subangular to subrounded granules and pebbles; loose; poorly sorted; dry; road fill material; 10YR5/3 brown.
			4						No sample taken.
26 19 32 38	1.5	0				B02002		ML	5.0–7.0 CLAY, trace coarse sand; nonplastic; very firm; poorly sorted; dry; 5Y5/2 olive grey.
NR	0	NR	8						7.0–7.5 Interbedded shale and limestone bedrock. Bottom of boring at 7.5 ft.
			12						
			16						
			20						
			24						
			28						

MOUND / AREA 7	OU5 OPERATIONAL AREA PHASE 1 RI/FS FIELD INVESTIGATION	SOIL BORING B03	Page 1 of 2



Area of Concern: Area 7
Drilling Company: Bowser-Morner
Drilling Method: 8 in. Hollow-Stem Auger
Drilling Dates: 6/23/94, 6/27/94, 6/28/94
Logged By: Greg Loder
Total Depth (ft BGS): 40.0

COORDINATES
State Plane; Northing: 598698.4910
Easting: 1497045.0900
Mound Plant; South: 1914.0967
West: 2101.4955
Ground Surface Elevation (ft MSL): 809.91

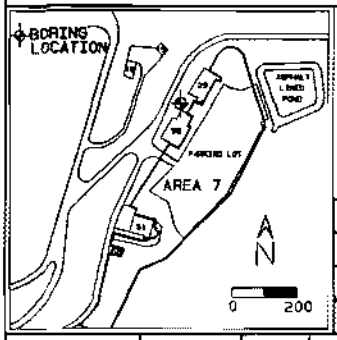
GROUNDWATER	DEPTH (ft BGS)	COMMENTS
▼	17.5	Encountered during drilling. Sample collected.
▽		
▽		

BLOW COUNTS	RECOVERY (ft)	F.I.D. (ppm)	DEPTH (ft BGS)	SAMPLES Geotech.	SAMPLES Water	SAMPLES Soil	LITHOLOGY	USCS	DESCRIPTION / COMMENTS
NA	2.0	0				B03001		GM	0-0.5 Asphalt 0.5-2.5 SILT, SAND and GRAVEL; nonplastic, very fine to very coarse sand, angular to subangular granules and pebbles; very loose; poorly sorted; dry; 10YR3/2 very dark greyish brown.
12 13 18 11	1.3	0						ML	2.5-5.0 SILT and CLAY, some coarse sand, trace gravel; plastic; soft; moist; 10YR4/3 brown.
18 16 10 11	2.6	0	4			B03002		CL	5.0-6.0 CLAY, trace fine sand; slightly plastic; firm; poorly sorted; moist; 10YR5/3 brown.
14 20 14 26	0.7	0						CL	6.0-8.0 CLAY; nonplastic; stiff; dry; laminated; 5GY6/1 greenish grey.
27 54 27 39	0.5	0	8					GC	8.0-17.0 CLAY, trace gravel; slightly plastic; firm; poorly sorted; moist; 5GY6/1 greenish grey.
27 12 12 12	1.9	0	12			B03003			
13 11 10 15	0.8	0							
24 15 14 27	0.6	0	16			B03004			
11 21 13 22	0.3	NR	▼		W03001			GC	17.0-19.0 GRAVEL, trace clay; subangular to subrounded pebbles; loose; well sorted; saturated.
10 25 11 12	0.4	0	20					GC	19.0-22.0 GRAVEL, SAND, and CLAY; subangular to rounded granules and pebbles, medium to coarse sand; plastic; soft; moderately sorted; saturated; 10 YR4/6 dark yellowish brown.
10 14 25 35	0.3	0						GW	22.0-24.0 GRAVEL; subrounded to rounded granules, pebbles and cobbles ; very loose; poorly sorted; saturated.
12 10 17 14	1.8	0	24					CL	24.0-33.0 CLAY, some coarse sand, trace gravel; plastic; firm; poorly sorted; moist; 10YR4/6 dark yellowish brown.
16 21 30 19	0.6	0				B03005			
			28						

MOUND / AREA 7	OU5 OPERATIONAL AREA PHASE I RI/FS FIELD INVESTIGATION	SOIL BORING B03	Page 2 of 2

BLOW COUNTS	RECOVERY (ft)	F.I.D. (ppm)	DEPTH (ft BGS)	SAMPLES: Geotech.	SAMPLES: Water	SAMPLES: Soil	LITHOLOGY	USCS	
21 17 26 25	1.4	NR						CL	
20 16 39 38	1.1	NR							
			32						
29 28 31 30	1.9	NR						CL	33.0-40.0 CLAY, trace coarse sand and gravel; slightly plastic; very stiff; poorly sorted; moist; N/4 dark grey.
17 31 42 44	1.9	8.0				B03008			VOA sample only collected
			36						
31 38 41 49	2.0	0							
37 41 30 41	0.8	10.0				B03007			
			40						LEL=10%; VOA sample only collected. Boring abandoned. Bottom of boring at 40.0 ft.
			44						
			48						
			52						
			56						
			60						

MOUND / AREA 7	OU5 OPERATIONAL AREA PHASE 1 RI/FS FIELD INVESTIGATION	SOIL BORING B04	Page 1 of 1



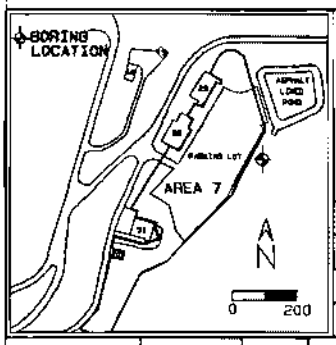
Area of Concern: Area 7
Drilling Company: Bowser-Morner
Drilling Method: 8 in. Hollow-Stem Auger
Drilling Dates: 6/22/94
Logged By: Greg Loder
Total Depth (ft BGS): 9.0

COORDINATES
State Plane; Northing: 598710.3080
Easting: 1496937.3400
Mound Plant; South: 1858.8233
West: 2194.7401
Ground Surface Elevation (ft MSL): 811.69

GROUNDWATER	DEPTH (ft BGS)	COMMENTS
		None encountered

BLOW COUNTS	RECOVERY (ft)	P.I.D. (ppm)	DEPTH (ft BGS)	SAMPLES: Geotech.	SAMPLES: Water	SAMPLES: Soil	LITHOLOGY	USCS	DESCRIPTION / COMMENTS
NA	2.0	0		B04021		B04001		SP	0-2.0 SILT, trace medium sand and gravel; nonplastic; loose; poorly sorted; dry; 10YR3/1 very dark grey. Shelby Tube sample collected.
			4						No sample taken.
19 24 36 19	1.1	0				B04002 B04102		CL	5.0-8.5 CLAY, trace gravel; nonplastic; stiff; poorly sorted; dry; laminated; 5GY5/1 greenish grey.
22 34 46 39	0.4	0	8						8.5-9.0 Interbedded shale and limestone bedrock. Bottom of boring at 9.0 ft.
			12						
			16						
			20						
			24						
			28						

MOUND / AREA 7	OU5 OPERATIONAL AREA PHASE I RI/FS FIELD INVESTIGATION	SOIL BORING B05	Page 1 of 1



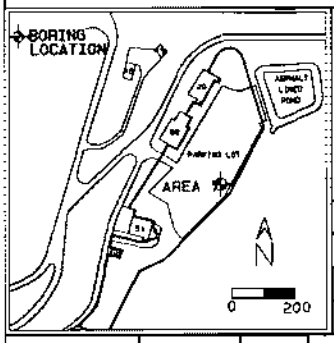
Area of Concern: Area 7
Drilling Company: Bowser-Morner
Drilling Method: 8 in. Hollow-Stem Auger
Drilling Dates: 6/22/94
Logged By: Greg Loder
Total Depth (ft BGS): 7.0

COORDINATES
State Plane; Northing: 598542.6060
Easting: 1497192.2800
Mound Plant; South: 2116.8633
West: 2031.8484
Ground Surface Elevation (ft MSL): 810.41

GROUNDWATER	DEPTH (ft BGS)	COMMENTS
▼		None encountered
▽		
▽		

BLOW COUNTS	RECOVERY (ft)	P.I.D. (ppm)	DEPTH (ft BGS)	SAMPLES: Geotech.	SAMPLES: Water	SAMPLES: Soil	LITHOLOGY	USCS	DESCRIPTION / COMMENTS
NA	2.0	0		B01021		B05001		SP	0-3.0 SILT, some gravel; nonplastic; loose; poorly sorted; dry; 10YR4/1 dark grey. Some soil retained in geophysical sample bucket.
19 32 30 45	1.2	NR	4					CL	3.0-4.0 CLAY, trace fine sand and gravel; slightly plastic; firm; poorly sorted; dry; 5GY5 grey.
19 24 36 41	2.0	0				B05002		CL	4.0-6.5 CLAY; nonplastic; very stiff; dry; laminated; 5GY5 grey.
27 40	0.5	0	8						6.5-7.0 Interbedded shale and limestone bedrock. Bottom of boring at 7.0 ft.
			12						
			16						
			20						
			24						
			28						

MOUND / AREA 7	OU5 OPERATIONAL AREA PHASE I RI/FS FIELD INVESTIGATION	SOIL BORING B08	Page 1 of 1



Area of Concern: Area 7
Drilling Company: Bowser-Morner
Drilling Method: 8 in. Hollow-Stem Auger
Drilling Dates: 7/22/94
Logged By: Greg Loder
Total Depth (ft BGS): 16.0

COORDINATES
State Plane; Northing: 598460.5390
Easting: 1497066.5800
Mound Plant; South: 2139.6651
West: 2180.2418
Ground Surface Elevation (ft MSL): 804.74

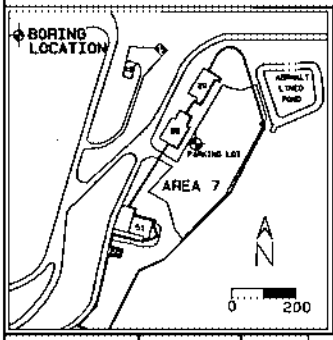
GROUNDWATER	DEPTH (ft BGS)	COMMENTS
▼	14.5	Encountered during drilling; not enough to sample.
▽		
▼		

BLOW COUNTS	RECOVERY (ft)	F.I.D. (ppm)	DEPTH (ft BGS)	SAMPLES: Geotech.	SAMPLES: Water	SAMPLES: Soil	LITHOLOGY	USCS	DESCRIPTION / COMMENTS
NA	2.0	60				B08001		CL	0-0.5 Asphalt. 0.5-3.0 CLAY, trace coarse sand and gravel; plastic; soft; poorly sorted; moist; 2.5Y4/1 dark grey.
19 32 29 31	1.8	170						CL	3.0-6.0 CLAY, some silt, trace fine sand and gravel; nonplastic; stiff; poorly sorted; dry; laminated; 5Y5/2 olive grey.
21 19 29 36	2.0	250	4						
49 36 51 40	0	2.0				B08002			6.0-8.0 No recovery.
31 26 45 41	0.3	3.0	8					CL	8.0-12.0 CLAY, some silt, trace fine sand and gravel; nonplastic; stiff; poorly sorted; dry; laminated; 5Y5/2 olive grey.
42 40 31 63	0.6	1.0							
55 100/3	0	0	12			B08003			12.0-14.0 No recovery.
44 30 19 22	1.0	0	▼					CH	14.0-15.0 CLAY, some gravel; very plastic; soft; poorly sorted; wet; 5Y5/2 olive grey.
			16					GC	15.0-15.8 CLAY, SAND, and GRAVEL; coarse sand, angular to subangular granules, pebbles and cobbles; plastic; soft; poorly sorted; wet; 5Y5/2 olive grey. 15.8-16.0 Interbedded shale and limestone bedrock. Bottom of boring at 16.0 ft.
			20						
			24						
			28						

MOUND / AREA 7

OU5 OPERATIONAL AREA PHASE I RI/FS FIELD INVESTIGATION

SOIL BORING B07



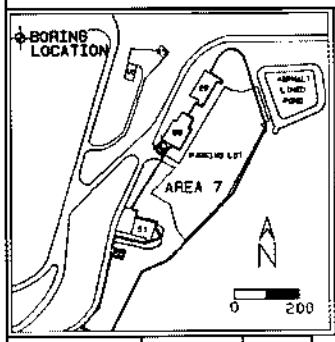
Area of Concern: Area 7
Drilling Company: Bowser-Morner
Drilling Method: 8 in. Hollow-Stem Auger
Drilling Dates: 6/28/94, 6/29/94
Logged By: Greg Loder
Total Depth (ft BGS): 17.0

COORDINATES
State Plane; Northing: 598583.2110
Easting: 1496987.8100
Mound Plant; South: 1995.4178
West: 2201.2820
Ground Surface Elevation (ft MSL): 805.20

GROUNDWATER	DEPTH (ft BGS)	COMMENTS
		None encountered.

BLOW COUNTS	RECOVERY (ft)	F.I.D. (ppm)	DEPTH (ft BGS)	SAMPLES Geotech.	SAMPLES Water	SAMPLES Soil	LITHOLOGY	USCS	DESCRIPTION / COMMENTS
									0-0.9 Asphalt
19 24 29 29	3.8	0				B07001 B07101		CL	0.9-8.0 CLAY, some silt, trace coarse sand and gravel; plastic; soft; poorly sorted; moist; 10YR4/1 very dark grey.
22 19 31 39	1.4	0	4						
21 33 44 49	2.0	0				B07002		CL	8.0-10.5 CLAY, trace coarse sand and gravel; very plastic; soft; poorly sorted; moist; 10YR5/4 yellowish brown.
29 41 32 45	1.3	0	8						
31 44 51 38	1.8	0							
29 19 21 42	1.0	0	12			B07003		CL	10.5-17 CLAY, trace coarse sand and gravel; plastic; soft; poorly sorted; moist; 5GY4/1 dark greenish grey.
30 41 52 69	1.7	30							
39 49 51 44	1.8	200	16			B07004			
			20						LEL=15%; borehole abandoned. Bottom of boring at 17.0 ft.
			24						
			28						

MOUND / AREA 7	OU5 OPERATIONAL AREA PHASE 1 RI/FS FIELD INVESTIGATION	SOIL BORING B08	Page 1 of 1



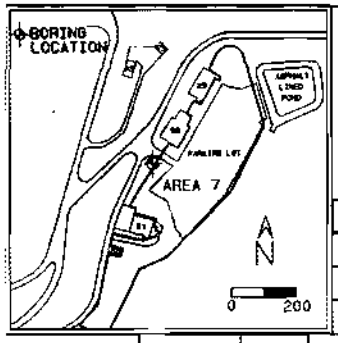
Area of Concern: Area 7
Drilling Company: Bowser-Morner
Drilling Method: 8 in. Hollow-Stem Auger
Drilling Dates: 7/14/94
Logged By: Greg Loder
Total Depth (ft BGS): 26.0

COORDINATES
State Plane; Northing: 598575.4151
Easting: 1496874.2608
Mound Plant; South: 1955.6099
West: 2307.9100
Ground Surface Elevation (ft MSL): 805.93

GROUNDWATER	DEPTH (ft BGS)	COMMENTS
		None encountered.

BLOW COUNTS	RECOVERY (ft)	F.I.D. (ppm)	DEPTH (ft BGS)	SAMPLES: Geotech.	Water	Soil	LITHOLOGY	USCS	DESCRIPTION / COMMENTS
NA	2.0	0				B08001		CL	0-0.5 Asphalt. 0.5-6.0 SILT and CLAY, trace medium sand and gravel; nonplastic; loose; poorly sorted; dry; 5GY5/1 greenish grey.
29 25 11 13	0.2	12	4						
20 14 11 17	0.2	120							
32 33 22 13	0.2	21				B08002		CL	6.0-10.0 CLAY, some medium sand, trace gravel; plastic; soft; poorly sorted; moist; 5GY4/1 greenish grey.
18 8 12 18	1.6	35	8						
30 25 33 17	0.6	>1000						OH	10.0-13.0 CLAY, trace fine sand and gravel; very plastic; soft; poorly sorted; moist; 5Y6/3 pale olive; some 5BG5/1 greenish grey mottling.
16 14 30 60	0.7	500	12						
44 30 37 58	0.1	>1000						OH	13.0-16.0 CLAY, trace fine sand and gravel; nonplastic; very stiff; poorly sorted; moist; laminated; 5Y6/3 pale olive; heavy 5BG5/1 greenish grey and 7.5YR3/1 very dark grey mottling.
25 30 40 99	0	5	16			B08003			LEL>100%; borehole flooded with water. LEL reduced to 2%.
88 100/2	0.4	0						OH	16.0-18.0 No recovery. 18.0-23.5 CLAY, trace fine sand and gravel; nonplastic; very stiff; poorly sorted; moist; highly laminated; 5Y6/3 pale olive.
NR	0.3	0	20						
NR	0.2	0							
			24						23.5-24.0 Interbedded shale and limestone bedrock. Bottom of boring at 24.0 ft.
			28						

MOUND / AREA 7	OU5 OPERATIONAL AREA PHASE 1 RI/FS FIELD INVESTIGATION	SOIL BORING B09	Page 1 of 2



Area of Concern: Area 7
Drilling Company: Bowser-Morner
Drilling Method: 8 in. Hollow-Stem Auger
Drilling Dates: 7/19/94
Logged By: Greg Loder
Total Depth (ft BGS): 33.0

COORDINATES
State Plane; Northing: 598517.9892
Easting: 1496851.6605
Mound Plant; South: 1998.5706
West: 2352.2146
Ground Surface Elevation (ft MSL): 802.77

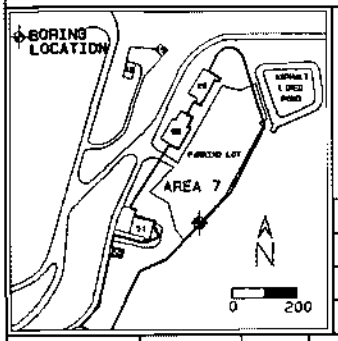
GROUNDWATER	DEPTH (ft BGS)	COMMENTS
		None encountered.

BLOW COUNTS	RECOVERY (ft)	F.I.D. (ppm)	DEPTH (ft BGS)	SAMPLES (Geotech. / Water / Soil)	LITHOLOGY	USCS	DESCRIPTION / COMMENTS
							0-0.5 Asphalt.
NA	2.0	2.0		B09001		SM	0.5-2.5 SILT, trace medium sand and gravel; nonplastic; loose; poorly sorted; dry; 5Y5/1 grey.
8 17 16 14	1.3	150				CL	2.5-6.0 CLAY, some silt, trace sand and gravel; slightly plastic; firm; poorly sorted; dry; 5GY5/1 greenish grey.
8 8 12 27	0.9	25	4				
17 33 20 18	1.2	2.0				CL	6.0-14.0 CLAY, trace fine sand and gravel; plastic; soft; poorly sorted; moist; 2.5Y5/3 light olive brown.
15 21 25 21	1.2	4.0	8	B09002 B09102			
8 34 17 11	0.6	100					
14 12 19 19	0.3	12	12				
8 6 9 21	1.4	100				CH	14.0-20.0 CLAY, trace fine sand and gravel; very plastic; soft; poorly sorted; moist; N/5 grey.
35 100/3	0.2	>1000	16	B09003			LEL=24%; borehole flooded with water. LEL reduced to 0%.
20 42 43 31	1.5	0					LEL=60%; borehole flooded with water. LEL reduced to 0%. Water level now appears to stable.
26 26 50 76	0	0	20				20.0-22.0 No recovery.
38 75 75 23	1.5	0		B09004		CH	22.0-23.0 CLAY, trace fine sand and gravel; very plastic; soft; poorly sorted; moist; N/5 grey.
14 25 17 20	1.4	0	24			CL	23.0-30.0 CLAY, some coarse sand and gravel; plastic; firm; poorly sorted; moist; 10YR4/3 brown.
10 22 30 40	1.0	9.0		B09005			
			28				

MOUND / AREA 7	OU5 OPERATIONAL AREA PHASE I RI/FS FIELD INVESTIGATION	SOIL BORING B09	Page 2 of 2

BLOW COUNTS	RECOVERY (ft)	F.I.D. (ppm)	DEPTH (ft BGS)	SAMPLES: Geotech.	SAMPLES: Water	SAMPLES: Soil	LITHOLOGY	USCS	
10 30 33 45	0.3	0						CL	
34 100/5	0	0				B09005			30.0–32.0 No recovery.
70 100/3	0.3	0	32						32.0–33.0 Interbedded shale and limestone bedrock. Bottom of boring at 33.0 ft.
			36						
			40						
			44						
			48						
			52						
			56						
			60						

MOUND / AREA 7	OU5 OPERATIONAL AREA PHASE I RI/FS FIELD INVESTIGATION	SOIL BORING B10	Page 1 of 1



Area of Concern: Area 7
Drilling Company: Bowser-Morner
Drilling Method: 8 in. Hollow-Stem Auger
Drilling Dates: 7/20/94
Logged By: Greg Loder
Total Depth (ft BGS): 13.5

COORDINATES
State Plane; Northing: 598338.4920
Easting: 1496995.3600
Mound Plant; South: 2221.3985
West: 2295.5005
Ground Surface Elevation (ft MSL): 803.45

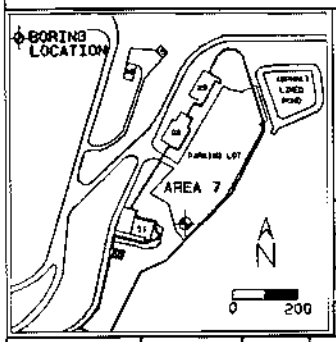
GROUNDWATER	DEPTH (ft BGS)	COMMENTS
▼	12.0	Encountered during drilling. Not enough to sample.
▽		
▽		

BLOW COUNTS	RECOVERY (ft)	F.I.D. (ppm)	DEPTH (ft BGS)	SAMPLES: Geotech.	SAMPLES: Water	SAMPLES: Soil	LITHOLOGY	USCS	DESCRIPTION / COMMENTS
NA	2.0	0				B10001		SM	0-3.0 SILT, some coarse sand and gravel; nonplastic; loose; poorly sorted; dry; 10YR4/3 brown.
17 50 33 34	0.8	0	4					CL	3.0-6.0 CLAY, trace medium sand and gravel; nonplastic; stiff; poorly sorted; dry; 2.5Y5/3 light olive brown; heavy 5BG5/1 mottling.
20 28 33 38	1.0	0							
100/5	0	0				B10002			6.0-8.0 No recovery.
14 17 21 30	1.2	0	8					CL	8.0-11.25 CLAY, trace medium sand and gravel; nonplastic; very stiff; poorly sorted; dry; 2.5Y5/3 light olive brown; heavy 5BG5/1 mottling.
16 28 52 37	0.9	0				B10003		GC	11.25-12.75 CLAY, SAND and GRAVEL; plastic, fine to medium sand, angular to subangular granules and pebbles; firm; poorly sorted; moist; laminated.
30 47 100/5	1.2	0	12						12.75-13.5 Interbedded shale and limestone bedrock. Bottom of boring at 13.5 ft.
			16						
			20						
			24						
			28						

MOUND / AREA 7

OU5 OPERATIONAL AREA PHASE I
RI/FS FIELD INVESTIGATION

SOIL BORING B11



Area of Concern: Area 7
Drilling Company: Bowser-Morner
Drilling Method: 8 in. Hollow-Stem Auger
Drilling Dates: 7/21/94, 7/22/94
Logged By: Greg Loder
Total Depth (ft BGS): 20.5

COORDINATES
State Plane; Northing: 598338.6420
Easting: 1496951.8500
Mound Plant; South: 2203.2878
West: 2335.0624
Ground Surface Elevation (ft MSL): 802.14

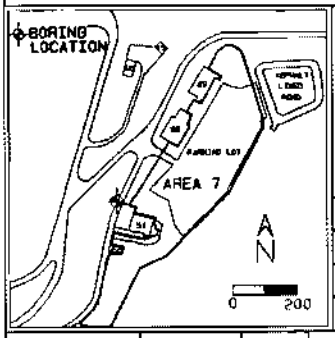
GROUNDWATER	DEPTH (ft BGS)	COMMENTS
▼	18.5	Encountered during drilling.
▽	12.5	Stabilized level during sampling.
▼		

BLOW COUNTS	RECOVERY (ft)	F.I.D. (ppm)	DEPTH (ft BGS)	SAMPLES Geotech.	SAMPLES Water	SAMPLES Soil	LITHOLOGY	USCS	DESCRIPTION / COMMENTS
NA	2.0	0				B11001		SM	0-0.5 Asphalt.
								CL	0.5-2.0 SILT, some clay, trace medium sand and gravel; plastic; soft; poorly sorted; moist; 10YR3/1 vey dark grey.
7 9 20 15	1.2	90							2.0-7.0 CLAY, trace coarse sand and gravel; plastic; soft; poorly sorted; moist; 10YR3/1 very dark grey.
8 7 13 10	1.6	700	4						
17 30 39 22	1.7	>1000				B11002 B11102		CL	7.0-11.0 CLAY, some silt, trace sand; nonplastic; stiff; poorly sorted; dry; 5Y6/3 pale olive.
35 20 38 60	1.4	>1000	8						
22 39 78 38	0.9	70						CL	11.0-16.0 CLAY, some silt; nonplastic; very stiff; poorly sorted; dry; laminated; 5Y6/2 light olive grey.
46 20 36 68	1.3	40	12 ▽		B11001	B11003			
17 50 40 32	1.6	120							
100/0	0	45	16			B11004			16.0-18.0 No recovery.
39 26 25 49	1.5	10	▼					CL CL	18.0-18.5 CLAY, some silt; nonplastic; very stiff; poorly sorted; dry; laminated; 5Y6/2 light olive grey.
			20						18.5-20.0 CLAY, trace gravel; plastic; firm; poorly sorted; saturated; weathered shale fragments; 5BG5/1 greenish grey.
									20.0-20.5 Interbedded shale and limestone bedrock. Bottom of boring at 20.5 ft.
			24						
			28						

MOUND / AREA 7

OU5 OPERATIONAL AREA PHASE I RI/FS FIELD INVESTIGATION

SOIL BORING B12



Area of Concern: Area 7
Drilling Company: Bowser-Morner
Drilling Method: 8 in. Hollow-Stem Auger
Drilling Dates: 7/20/94
Logged By: Greg Loder
Total Depth (ft BGS): 23.5

COORDINATES
State Plane; Northing: 598399.1087
Easting: 1498738.5499
Mound Plant; South: 2060.1069
West: 2504.3324
Ground Surface Elevation (ft MSL): 795.53

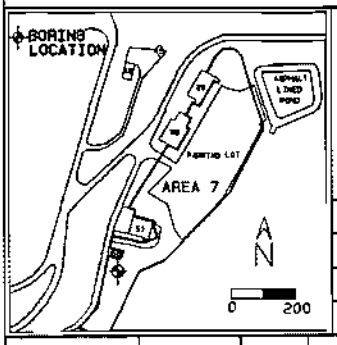
GROUNDWATER	DEPTH (ft BGS)	COMMENTS
		None encountered.

BLOW COUNTS	RECOVERY (ft)	F.I.D. (ppm)	DEPTH (ft BGS)	SAMPLES: Geotech.	SAMPLES: Water	SAMPLES: Soil	LITHOLOGY	USCS	DESCRIPTION / COMMENTS
									0-0.5 Asphalt.
NA	2.0	2.0				B12001		SP	0.5-4.0 SAND and GRAVEL, some silt; fine to very coarse sand, angular to rounded granules, pebbles and cobbles; loose; poorly sorted; dry; road fill; 10YR4/3 brown.
100/4	0.1	2.0							
			4					GW	4.0-7.5 GRAVEL; angular to rounded pebbles and cobbles; very loose; poorly sorted; dry.
30 15 17 21	0.1	17							
30 12 19 14	0.6	15							
			8			B12002		CH	7.5-8.0 CLAY plastic; firm; moist; heavily laminated; 5Y5/2 olive grey.
17 22 33 17	0	12							8.0-12.0 No recovery.
20 18 30 42	0	40							
			12					CL	12.0-14.0 CLAY; nonplastic; very stiff; dry; laminated; 5Y5/2 olive grey, with many 5BG6/1 greenish grey mottles.
42 39 21 39	1.2	35							
100/5	0	19							14.0-20.0 No recovery.
			16						
100/2	0	3.0				B12003			
100/3	0	0							
			20					CL	20.0-22.0 CLAY; nonplastic; very stiff; dry; laminated; shale fragments; 5Y5/2 olive grey.
78 100/3	0.6	0							
61 68 60 99	0.2	0							22.0-23.5 Interbedded shale and limestone bedrock. Bottom of boring at 23.5 ft.
			24						
			28						

MOUND / AREA 7

OU5 OPERATIONAL AREA PHASE I RI/FS FIELD INVESTIGATION

SOIL BORING B13



Area of Concern: Area 7
Drilling Company: Bowser-Morner
Drilling Method: 8 in. Hollow-Stem Auger
Drilling Dates: 7/5/94-7/7/94
Logged By: Greg Loder
Total Depth (ft BGS): 70.0

COORDINATES
State Plane: Northing: 598190.2490
Easting: 1498742.5800
Mound Plant: South: 2251.9770
West: 2586.9429
Ground Surface Elevation (ft MSL): 782.20

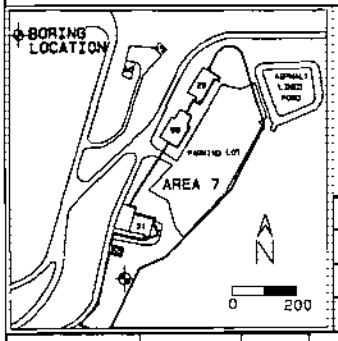
GROUNDWATER	DEPTH (ft BGS)	COMMENTS
▼	28.75	First saturated zone to 29.5 ft; sample collected.
▽	34.0	Second saturated zone to 37.5 ft.
▽	59.5	Third saturated zone to 60.0 ft.

BLOW COUNTS	RECOVERY (ft)	F.I.D. (ppm)	DEPTH (ft BGS)	SAMPLES: Geotech.	SAMPLES: Water	SAMPLES: Soil	LITHOLOGY	USCS	DESCRIPTION / COMMENTS
NA	2.0	0				B13001			0-0.5 Asphalt
10 14 19 22	1.3	0						SM	0.5-3.5 SILT, SAND and GRAVEL; nonplastic, fine to coarse sand, angular to subangular granules and pebbles; loose; poorly sorted; dry; 10YR4/2 dark greyish brown.
10 15 15 14	0.3	0	4					SC	3.5-7.0 SILT, CLAY and SAND, some gravel; slightly plastic, soft, very fine to coarse sand; poorly sorted; moist; iron staining; pieces of glass and metal in cuttings; N/3 very dark grey.
10 6 10 19	1.1	0				B13002		CL	7.0-14.0 CLAY, trace gravel; plastic; firm; poorly sorted; dry; iron staining; 5GY5/1 greenish grey.
12 17 26 18	1.0	40	8						
5 7 41 20	1.2	10							
5 14 22 20	0.3	6.0	12			B13003			
14 20 19 30	1.0	1.0						GC CL	14.0-14.5 GRAVEL, some clay; angular granules and pebbles; nonplastic; firm; poorly sorted; moist; 5GY5/1 greenish grey.
30 18 26 20	0.9	0	16						14.5-17.5 CLAY, trace coarse sand and gravel; plastic; firm; poorly sorted; moist; 5GY5/1 greenish grey.
10 11 16 30	0	12						GC	17.5-18.5 CLAY, some gravel; plastic; very soft; poorly sorted; moist; 10YR4/4 yellowish brown.
			20						18.5-20.5 No recovery.
20 31 19 10	0.8	7.0						GC CL	20.5-21.0 GRAVEL, some clay; angular granules and pebbles; nonplastic; firm; poorly sorted; wet; 5GY5/1 greenish grey.
10 26 19 14	1.3	0				B13004			21.0-24.0 CLAY, trace gravel; very plastic; soft; poorly sorted; moist; 5GY5/1 greenish grey.
10 14 10 20	1.0	10	24					CL	24.0-27.25 CLAY; plastic; soft; moist; 2.5Y2.5/1 black.
15 19 12 22	2.0	0			W13001 W13101	B13005			
			28					SW	27.25-30.0 SAND, trace silt and clay; very fine to fine sand; well sorted; loose; wet; 2.5Y5/4 light olive brown.

BLOW COUNTS	RECOVERY (ft)	F.I.D. (ppm)	DEPTH (ft BGS)	SAMPLES Geotech.	SAMPLES Water	SAMPLES Soil	LITHOLOGY	USCS	
9 12 30 61	1.2	0						SW	
11 31 62 30	0.9	0			W13001 W13101			CL	30.0-34.5 CLAY, some coarse sand; plastic; soft; poorly sorted; moist; N/3 very dark grey.
11 18 45 70	1.4	200	32			B13008			VOA sample collected.
22 45 32 95	0.1	0						GP	34.5-38.0 GRAVEL, trace clay; angular to subangular granules and pebbles; very loose; poorly sorted; saturated.
29 32 87 70	0.4	0	36						
43 13 21 40	1.6	0		B01023				CL	38.0-43.0 CLAY, some coarse sand; slightly plastic; firm; poorly sorted; dry; N/3 very dark grey.
25 41 48 45	1.4	0	40						
34 26 20 19	2.0	0						CL	43.0-45.5 CLAY, some coarse sand; slightly plastic; firm; poorly sorted; moist; N/3 very dark grey.
15 40 42 39	2.0	0	44						
25 14 40 78	1.9	0						SP	45.5-46.5 SAND, some gravel; coarse to very coarse sand; loose; poorly sorted; moist; 10YR4/3 brown.
65 50 46 70	1.4	0	48					SP	46.5-50.5 SAND, some gravel; coarse to very coarse sand; loose; poorly sorted; moist; 2.5Y 4/4 olive brown.
47 45 42 99	1.6	0						SP	50.5-56.5 SAND and GRAVEL; medium to very coarse sand, angular to subangular granules and pebbles; very loose; poorly sorted; moist; 2.5Y5/1 grey.
60 38 11 9	0.2	0	52						
41 16 16 15	1.4	0							
17 18 40 30	1.6	0	56					SC	56.5-58.0 SAND and GRAVEL, trace silt; coarse to very coarse sand, angular to subangular granules and pebbles; very loose; poorly sorted; wet; 2.5Y4/1 dark grey.
NR	1.0	0						SP	
14 43 48 81	0.9	0	60					GP	58.0-60.0 SAND and GRAVEL, trace silt; coarse to very coarse sand, angular to rounded granules and pebbles; very loose; poorly sorted; wet; 10YR4/3 brown.
70 100/4	0.7	0						GC	60.0-61.5 GRAVEL, some coarse sand, trace silt; angular to subangular granules and pebbles; very loose; poorly sorted; saturated; 10YR4/1 dark grey.
									61.5-62.5 SHALE, trace fine sand and clay; soft; highly weathered; stained; fractures at 90 degrees; N/5 grey.

BLOW COUNTS	RECOVERY (ft)	F.I.D. (ppm)	DEPTH (ft BGS)	SAMPLES: Geotech.	SAMPLES: Water	SAMPLES: Soil	LITHOLOGY	USCS	
70 100/4	0.7	0						GC	62.5-69.5 GRAVEL and CLAY, some coarse sand; angular granules and pebbles; nonplastic; firm; poorly sorted; moist; 2.5Y5/3 light olive brown.
100/5	0.4	0							
NR	0.3	0	67						
NR	0.3	0							
									69.5-70.0 Interbedded shale and limestone bedrock. Bottom of boring at 70.0 ft.
			71						
			75						
			79						
			83						
			87						
			91						
			95						

MOUND / AREA 7	OU5 OPERATIONAL AREA PHASE I RI/FS FIELD INVESTIGATION	SOIL BORING B14	Page 1 of 4



Area of Concern: Area 7
Drilling Company: Bowser-Morner
Drilling Method: 8 in. Hollow-Stem Auger
Drilling Dates: 7/7, 7/8, 7/11-7/13/94
Logged By: Greg Loder
Total Depth (ft BGS): 114.0

COORDINATES
State Plane; Northing: 598158.8360
Easting: 1496762.9100
Mound Plant; South: 2290.8041
West: 2582.2318
Ground Surface Elevation (ft MSL): 781.93

GROUNDWATER	DEPTH (ft BGS)	COMMENTS
▼	28.0	Encountered during drilling; saturated to 30.5 ft.
▽	21.5	Stablized level for groundwater sampling.
▼	70.0	saturated zone to 114.0 ft.

BLOW COUNTS	RECOVERY (ft)	F.I.D. (ppm)	DEPTH (ft BGS)	SAMPLES: Geotech.	SAMPLES: Water	SAMPLES: Soil	LITHOLOGY	USCS	DESCRIPTION / COMMENTS
NA	2.0	0				B14001		SP	0-0.5 Asphalt 0.5-3.5 SILT, SAND and GRAVEL, some clay; nonplastic, very fine to very coarse sand, angular to rounded granules and pebbles; loose; poorly sorted; dry; 2.5Y4/3 olive brown.
32 38 100/2	1.4	0							
24 20 20 16	0	0	4					GC	3.5-4.5 CLAY, some coarse sand and gravel; nonplastic; firm; poorly sorted; dry; 2.5Y3/2 very dark greyish brown. 4.5-8.5 No recovery due to cobbles.
16 16 15 11	0	0							
8 15 17 20	0.3	0	8					GC	8.5-10.5 CLAY, some coarse sand and gravel; plastic; soft; poorly sorted; moist; 10Y3/3 dark brown.
23 17 21 21	0	0							10.5-14.0 No recovery due to cobbles.
58 40 86 29	0.7	0	12						
21 23 28 21	0.6	0				B14002		SM	14.0-22.5 SILT, trace medium sand and gravel; nonplastic; stiff; poorly sorted; dry; 5GY4/1 dark greenish grey.
23 19 29 18	0.5	0	16						
NR	0.7	0							
NR	0.4	>1000	20 ▽						
NR	0.6	2.0				B14003		PT	22.5-24.5 PEAT, trace gravel; high organic content; wet; black. LEL=85%, VOA sample collected.
NR	1.4	8.0	24 ▼		W14001			GC	24.5-30.5 CLAY, SAND and GRAVEL; nonplastic, fine to coarse sand, angular to subrounded granules and pebbles; soft; poorly sorted; wet; contains pieces of trash. LEL=76%
NR	1.6	6.0				B14004 B14104			
			28						

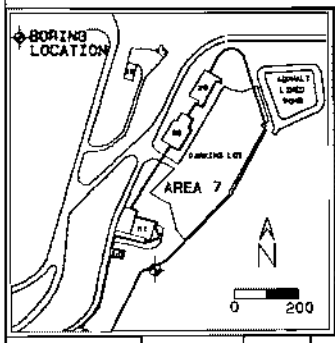
BLOW COUNTS	RECOVERY (ft)	F.I.D. (ppm)	DEPTH (ft BGS)	SAMPLES Geotech.	SAMPLES Water	SAMPLES Soil	LITHOLOGY	USCS	
NR	1.2	>1000			W14001	B14004 B14104		GC	
12 48 34 65	1.5	0						GC	30.5-32.0 CLAY and SAND, some gravel; nonplastic, medium to coarse sand; firm; poorly sorted; moist; 2.5Y4/4 olive brown.
			32					CL	
20 30 23 35	1.6	0						SW	32.0-32.5 CLAY and SAND, trace silt; slightly plastic, medium to coarse sand; firm; poorly sorted; moist; N/4 dark grey.
10 28 44 70	0.2	0						SC	32.5-34.5 SAND, trace silt; very fine to fine sand; loose; well sorted; wet; 5Y5/1 grey.
			36						
30 100/4	0.5	0						CL	34.5-36.5 SAND, some clay, trace gravel; fine to coarse sand; firm; poorly sorted; moist; N/5 grey.
33 30 23 68	1.8	0							36.5-41.5 CLAY and SAND; slightly plastic, coarse sand; firm; poorly sorted; dry; weathered piece of shale; N/4 dark grey.
			40						
38 75 100/5	1.9	0							
								GC	41.5-42.5 CLAY and SAND, some gravel; nonplastic, coarse to very coarse sand; firm; poorly sorted; moist; 10YR5/4 yellowish brown.
100/5	0	0							
			44						42.5-44.5 No recovery due to cobble.
68 100/3	0.5	0						GC	44.5-54.5 CLAY and SAND, some gravel; nonplastic, coarse to very coarse sand; firm; poorly sorted; moist; 10YR5/4 yellowish brown.
70 55 55 40	1.4	0							
			48						
55 65 40 99	1.6	0							
38 48 55 38	1.3	0							
			52						
35 35 70 70	1.5	0							
100/5	0	0							54.5-56.5 No recovery due to cobble.
			56						
150/5	0.4	0						GC	56.5-68.0 CLAY, SAND and GRAVEL; nonplastic, fine to very coarse sand, angular to subangular granules and pebbles; soft; poorly sorted; wet; 5Y5/2 olive grey.
100/4	0.1	0							
			60						
100/5	0.2	0							
100/5	0.2	0							

BLOW COUNTS	RECOVERY (ft)	F.I.D. (ppm)	DEPTH (ft BGS)	SAMPLES: Geotech.	SAMPLES: Water	SAMPLES: Soil	LITHOLOGY	USCS	
100/5	0.2	0						GC	
85 75 70 99	1.4	0							
40 55 40 50	1.7	0	67						
50 60 52 55	1.8	0						GP GC	68.0–68.5 GRAVEL; subangular to rounded granules and pebbles; very loose; poorly sorted; saturated.
24 28 26 30	1.2	0	71					GC	68.5–70.0 CLAY, SAND and GRAVEL; nonplastic, fine to very coarse sand, angular to subangular pebbles and cobbles; soft; poorly sorted; moist; N/5 grey.
42 30 30 32	1.4	0							70.0–79.5 GRAVEL, trace silt; subangular to rounded granules and pebbles; loose; poorly sorted; saturated; 10YR4/6 dark yellowish brown
28 32 25 28	1.1	0	75						
62 28 32 32	1.2	0							
35 23 29 30	1.4	0	79						
12 23 44 34	1.3	0						GC SP	79.5–80.5 CLAY, SAND and GRAVEL; nonplastic, medium to very coarse sand, subangular to rounded granules and pebbles; soft; poorly sorted; wet; 10YR5/3 brown.
100/4	0.2	0	83					SP	80.5–82.5 SAND and GRAVEL; medium to coarse sand, subrounded to rounded granules and pebbles; poorly sorted; loose; saturated; N/4 grey.
51 51 55 50	1.0	0							82.5–100.5 SAND, trace silt; very fine to coarse sand; dense; poorly sorted; saturated; N/4 grey.
65 29 33 42	1.0	0	87						
68 30 56 99	1.4	0							
59 33 54 99	1.9	0	91	B14021					
50 30 68 99	2.0	0							
35 40 40 99	2.0	0	95						
73 40 90 99	2.0	0							

MOUND / AREA 7	OU5 OPERATIONAL AREA PHASE I RI/FS FIELD INVESTIGATION	SOIL BORING B14	Page 4 of 4

BLOW COUNTS	RECOVERY (ft)	F.I.D. (ppm)	DEPTH (ft BGS)	SAMPLES: Geotech.	SAMPLES: Water	SAMPLES: Soil	LITHOLOGY	USCS	
70 45 68 99	2.0	0						SP	
100/4	2.0	0		B14021				SP	100.5–106.5 SAND, trace clay; very fine to medium sand; firm; poorly sorted; saturated; N/3 very dark grey.
100/3	1.6	0	102						
70 110/3	1.0	0							
NA	NA	NA	106						106.5–114 Split-spoon sampling discontinued. Continued borehole advancement to auger refusal. Bottom of boring at 114.0 ft.
NA	NA	NA							
NA	NA	NA	110						
NA	NA	NA							
			114						
			118						
			122						
			126						
			130						

MOUND / AREA 7	OU5 OPERATIONAL AREA PHASE I RI/FS FIELD INVESTIGATION	SOIL BORING B15	Page 1 of 1



Area of Concern: Area 7
Drilling Company: Bowser-Morner
Drilling Method: 8 in. Hollow-Stem Auger
Drilling Dates: 7/27/94
Logged By: Greg Loder, Susan Abston
Total Depth (ft BGS): 19.0

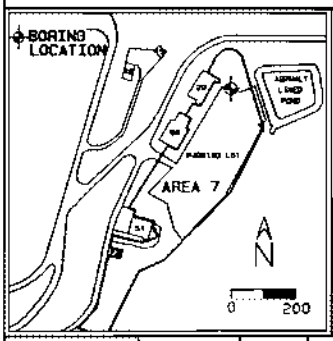
COORDINATES

State Plane; Northing:	598193.4340
Easting:	1496854.2101
Mound Plant; South:	2295.1912
West:	2483.9874
Ground Surface Elevation (ft MSL):	782.43

GROUNDWATER	DEPTH (ft BGS)	COMMENTS
		None encountered.

BLOW COUNTS	RECOVERY (ft)	F.I.D. (ppm)	DEPTH (ft BGS)	SAMPLES: Geotech.	Water	Soil	LITHOLOGY	USCS	DESCRIPTION / COMMENTS
NA	2.0	NR				B15001 B15101		CL	0-4.5 CLAY, some gravel; moist; some organic material; 10YR5/3 brown.
5 6 8 9	1.2	NR	4			B15002			
8 30 19 11	1.5	0						CL	4.5-7.5 CLAY; moist; weathered shale and limestone fragments; 5Y5/3 olive.
11 8 7 9	1.0	NR	8			B15003		CL	7.5-10.0 CLAY, some silt, trace gravel; moist; 10YR6/8 yellowish brown.
13 7 11 19	1.2	NR							
10 21 30 45	2.0	NR	12			B15004 B15104		CL	10.0-14.0 CLAY; dry; weathered shale fragments; 2.5Y5/3 light olive brown.
35 35 35 99	1.6	0							
100/4	0.3	NR	16						14.0-19.0 Interbedded shale and limestone bedrock. Bottom of boring at 19.0 ft.
100/2	0.1	NR							
			20						
			24						
			28						

MOUND / AREA 7	OU5 OPERATIONAL AREA PHASE I RI/FS FIELD INVESTIGATION	SOIL BORING B16	Page 1 of 2



Area of Concern: Area 7
Drilling Company: Bowser-Morner
Drilling Method: 8 in. Hollow-Stem Auger
Drilling Dates: 6/29, 6/30, 7/25/94
Logged By: Greg Loder, Susan Abston
Total Depth (ft BGS): 52.0

COORDINATES
State Plane; Northing: 598761.4340
Easting: 1497099.7400
Mound Plant; South: 1879.3515
West: 2025.7247
Ground Surface Elevation (ft MSL): 809.52

GROUNDWATER	DEPTH (ft BGS)	COMMENTS
▼	16.7	Saturated zone to 32.0 ft. Sample collected.
▽		
▽		

BLOW COUNTS	RECOVERY (ft)	F.I.D. (ppm)	DEPTH (ft BGS)	SAMPLES Geotech.	SAMPLES Water	SAMPLES Soil	LITHOLOGY	USCS	DESCRIPTION / COMMENTS
NA	2.0	0				B16001		SM	0-3.0 SILT, some gravel, trace coarse sand; nonplastic; loose; poorly sorted; dry; 10YR3/3 dark brown. VOA sample collected.
52 44 47 86	1.9	10				B16002		SM	3.0-6.0 SILT, some coarse sand, trace gravel; nonplastic; firm; poorly sorted; dry; 10YR5/2 greyish brown.
51 39 32 54	0.8	8.0	4						
18 18 21 16	0.4	10				B16003		GM	6.0-9.5 SILT, some sand and gravel; nonplastic; loose; poorly sorted; dry; 10YR5/2 greyish brown.
10 9 11 13	0.8	10	8						
9 8 11 25	0.5	20				B16004		CL	9.5-14.0 CLAY, some coarse sand, trace gravel; plastic; soft; poorly sorted; moist; 10YR4/3 dark yellowish brown.
NR	0.5	18	12						
NR	0.6	10						GW	14.0-20.0 GRAVEL, some coarse sand, trace clay; angular to rounded granules and pebbles; very loose; moderately sorted; saturated; fragments of concrete and asphalt.
NR	0.7	200	16 ▼		W16001	B16005			25 pcu/g of Actinium detected in auger cuttings from 14.0-16.0 ft. Rad sample collected for on-site analysis.
NR	0.4	10							LEL=3%. VOA sample collected.
13 13 13 19	1.2	NR	20			B16006		GM	20.0-24.0 GRAVEL, some coarse sand and clay; angular to rounded granules and pebbles; saturated; fragments of concrete and asphalt; 10YR5/2 greyish brown.
32 22 10 20	1.0	900							
40 24 10 11	0.8	300	24					SW	24.0-26.5 GRAVEL and SAND, trace clay; angular to rounded granules and pebbles, coarse sand; saturated; asphalt fragment.
15 5 5 6	1.8	NR				B16007 B16107		CL	26.5-27.5 CLAY, trace gravel; wet; wood fragment; 10YR4/1 grey.
			28					OH SW	27.5-28.0 CLAY; wet; high organic content; hydrocarbon odor; black.

MOUND / AREA 7	OU5 OPERATIONAL AREA PHASE 1 RI/FS FIELD INVESTIGATION	SOIL BORING B16	Page 2 of 2

BLOW COUNTS	RECOVERY (ft)	F.I.D. (ppm)	DEPTH (ft BGS)	SAMPLES: Geotech.	SAMPLES: Water	SAMPLES: Soil	LITHOLOGY	USCS	
6 20 23 33	1.2	520				B16007 B16107		SW	28.0–29.0 SAND, trace gravel; coarse sand; wet.
11 23 33 50	2.0	>1000						OH	29.0–40.0 CLAY, trace gravel; dry; plant fragments; 10YR4/2 dark greyish brown.
17 25 35 50	2.0	790	32						
24 21 24 31	2.0	>1000							
20 26 57 77	0.8	310	36						
NR	1.5	520							
NA	NA	NA	40						40.0–44.0 No sample taken.
11 20 40 55	0.6	0	44					OH	44.0–46.0 CLAY, trace gravel; dry; plant fragments; 10YR4/2 dark greyish brown.
NA	NA	NA	48						46.0–49.0 No sample taken.
75 100/2	0.7	NR							49.0–52.0 Interbedded shale and limestone bedrock. Auger refusal at 52.0 ft.
			52						
			56						
			60						

Prepared by: **Northeast Research Institute L.C** 605 Parfet Street Suite 100 Lakewood, Colorado 80215 (303) 238-0090	Drawn By: JCS Checked By: Project Manager: PCB	Project #: 2114E Date: October 28, 1994 File Name: AOC7-5.dwg	AOC-7/Operable Unit-5 USDOE Mound Facility Miamisburg, Ohio PETREX FINGERPRINT TECHNOLOGY®	LEGEND Relative Response Values: (in ion counts) ≥ 700,000 70,000 – 699,999 Features: + PETREX Sample Location H Denotes interference by petroleum hydrocarbons; see text. ND Not Detected	Relative Response Total Halogenated Hydrocarbons Plate 5

25021002- 9602280069.1 BAK 28136

Prepared by:
Northeast Research Institute LLC
605 Parfet Street
Suite 100
Lakewood, Colorado 80215
(303) 238-0050

Drawn By: JCS	Project #: 2114E
Checked By:	Date: October 28, 1994
Project Manager: PCB	File Name: AOC7-4.dwg

AOC-7/Operable Unit-5

USDOE Mound Facility
Miamisburg, Ohio

PETREX FINGERPRINT TECHNOLOGY®

LEGEND

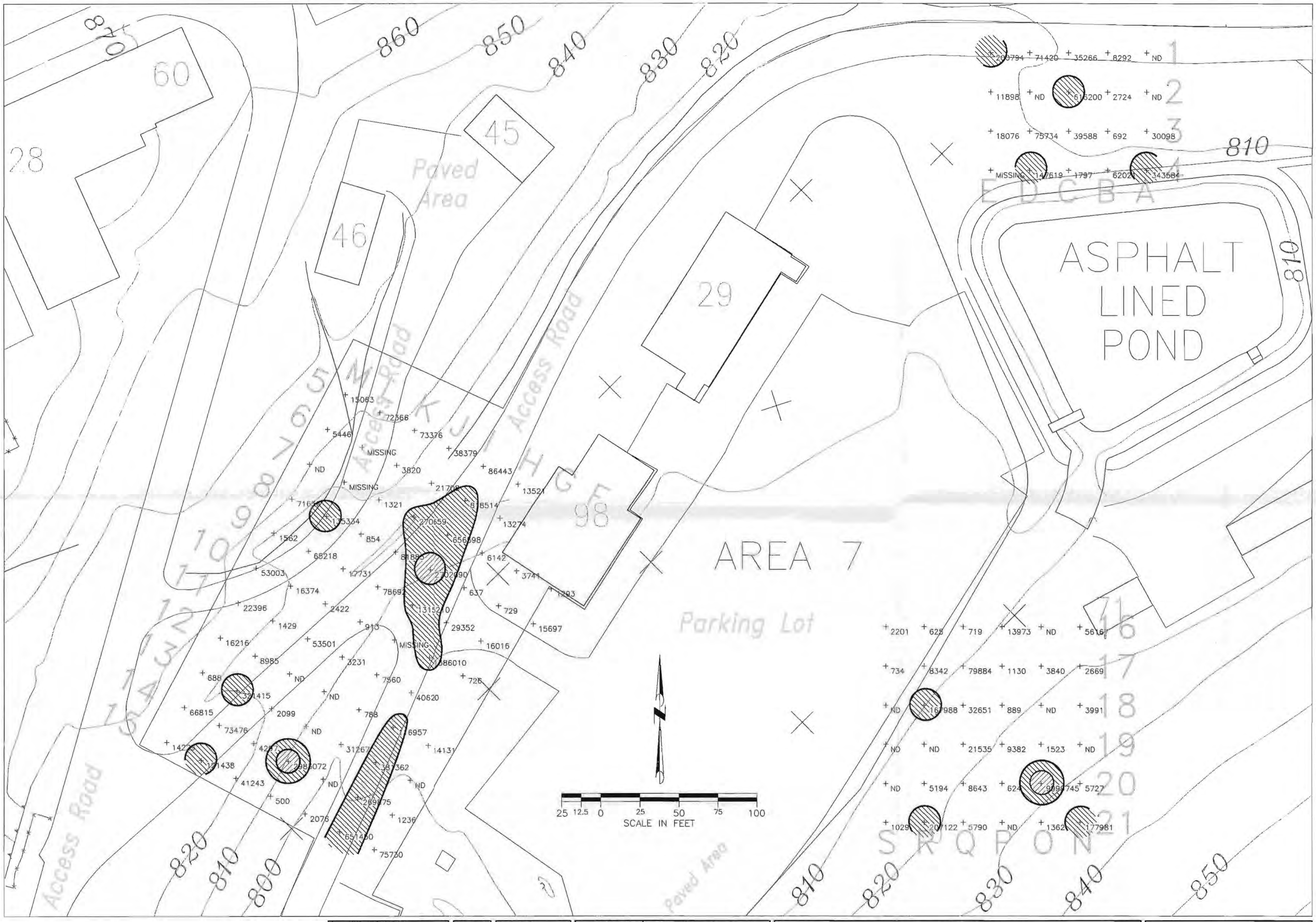
Relative Response Values: (in ion counts)
- ≥ 15,000,000
- 2,000,000 – 14,999,999

Features:
- + PETREX Sample Location
- T Denotes interference by terpenes; see text.

Relative Response
Total C5–C11 Petroleum Hydrocarbons

Plate 4

25021002 - 9602280069.2 B04 28136



Prepared by: Northeast Research Institute LLC, 605 Parfet Street, Suite 100, Lakewood, Colorado 80215, (303) 238-0090	Drawn By: JCS	Project #: 2114E	AOC-7/Operable Unit-5	LEGEND	Relative Response
	Checked By:	Date: October 28, 1994	USDOE Mound Facility, Miamisburg, Ohio	Relative Response Values: (in ion counts) ≥ 1,500,000; 100,000 – 1,499,999	Total Semivolatile Hydrocarbons
	Project Manager: PCB	File Name: AOC7-3.dwg	PETREX FINGERPRINT TECHNOLOGY®	Features: + PETREX Sample Location; ND Not Detected	Plate 3

25021002 - 96022800693 Box 28136

Prepared by:
Northeast Research Institute LLC
605 Parfet Street
Suite 100
Lakewood, Colorado 80215
(303) 238-0090

Drawn By: JCS	Project #: 2114E
Checked By:	Date: October 28, 1994
Project Manager: PCB	File Name: AOC7-2.dwg

AOC-7/Operable Unit-5

USDOE Mound Facility
Miamisburg, Ohio

PETREX FINGERPRINT TECHNOLOGY

LEGEND

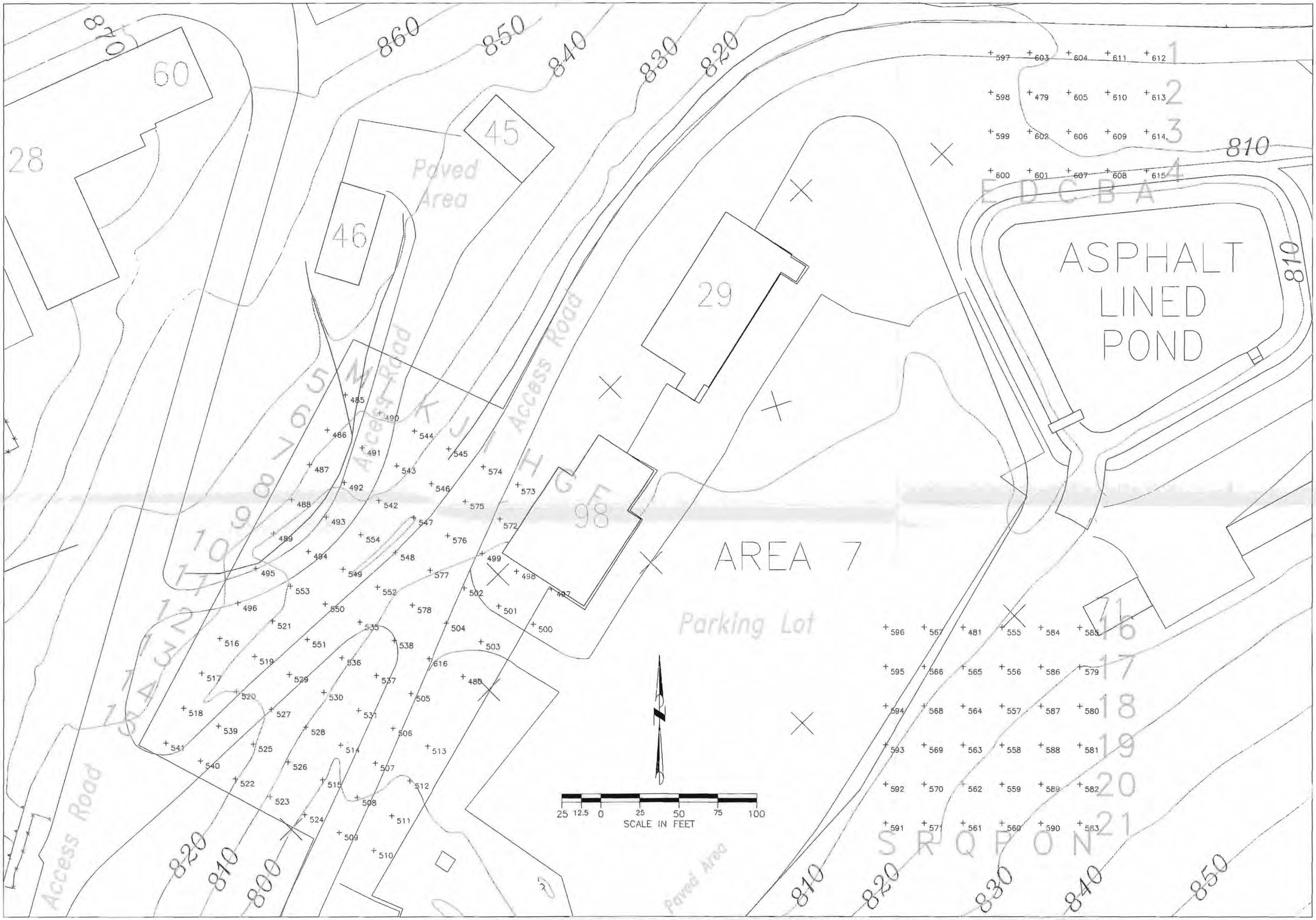
Relative Response Values: (in ion counts)
≥ 5,800,000
750,000 – 5,799,999

Features:
+ PETREX Sample Location
T Denotes interference by terpenes; see text.
ND Not Detected

Relative Response
Total Aromatic Hydrocarbons

Plate 2

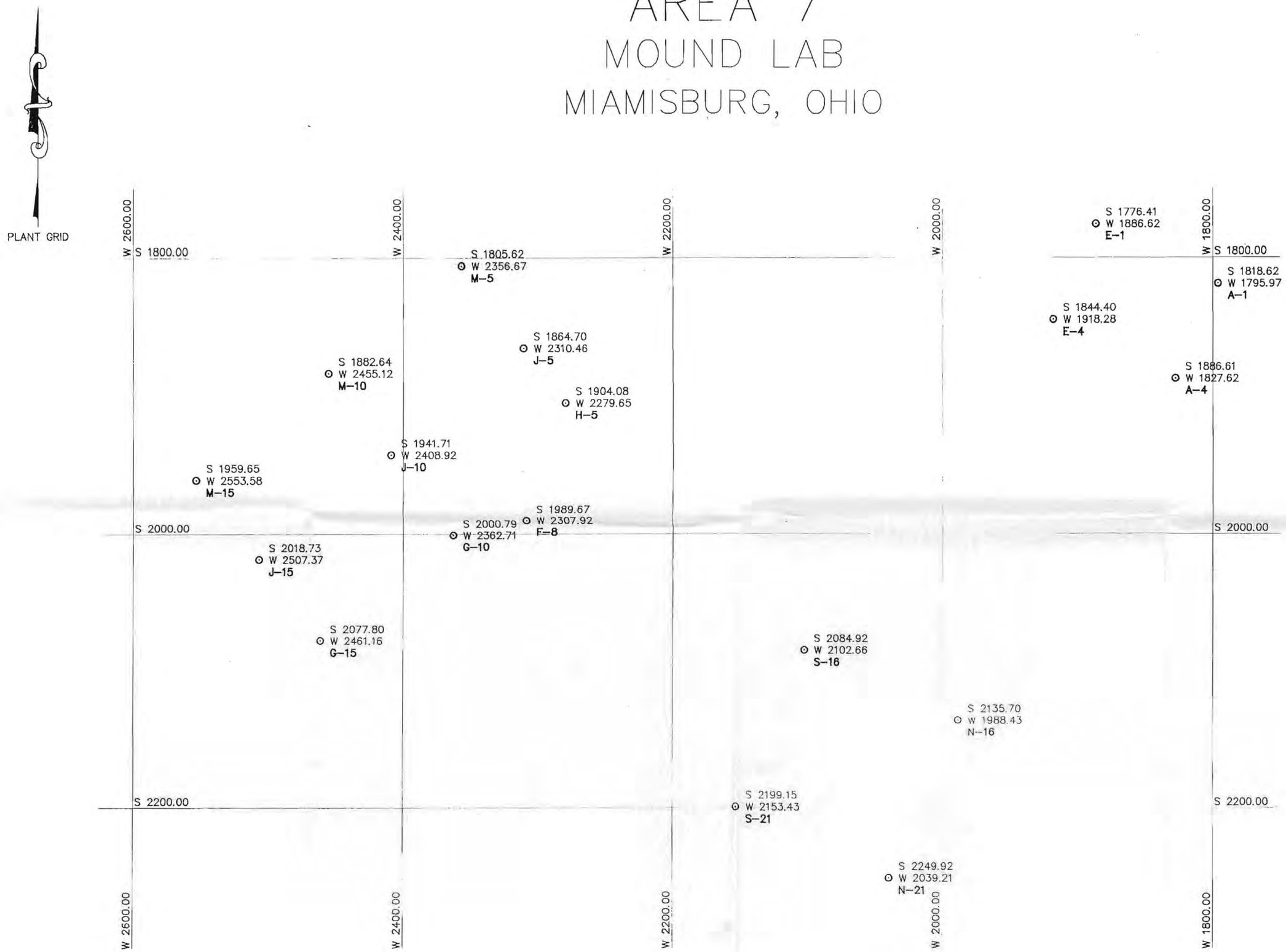
25021002-9602280069.4 Box 28136



Prepared by: Northeast Research Institute LLC, 605 Parfet Street, Suite 100, Lakewood, Colorado 80215, (303) 238-0090	Drawn By: JCS	Project #: 2114E	AOC-7/Operable Unit-5	LEGEND
	Checked By:	Date: October 28, 1994	USDOE Mound Facility, Miamisburg, Ohio	Features: + PETREX Sample Location
	Project Manager: PCB	File Name: AOC7-1.dwg	PETREX FINGERPRINT TECHNOLOGY	Sample Locations
				Plate 1

B04 28132 25021002-9602280069-5

AREA 7
MOUND LAB
MIAMISBURG, OHIO



GRAPHIC SCALE

(IN FEET)
1 inch = 50 ft.

APPENDIX B

PLATE 2 SURVEY MAP
MOUND PLANT COORDINATE SYSTEM

LEGEND

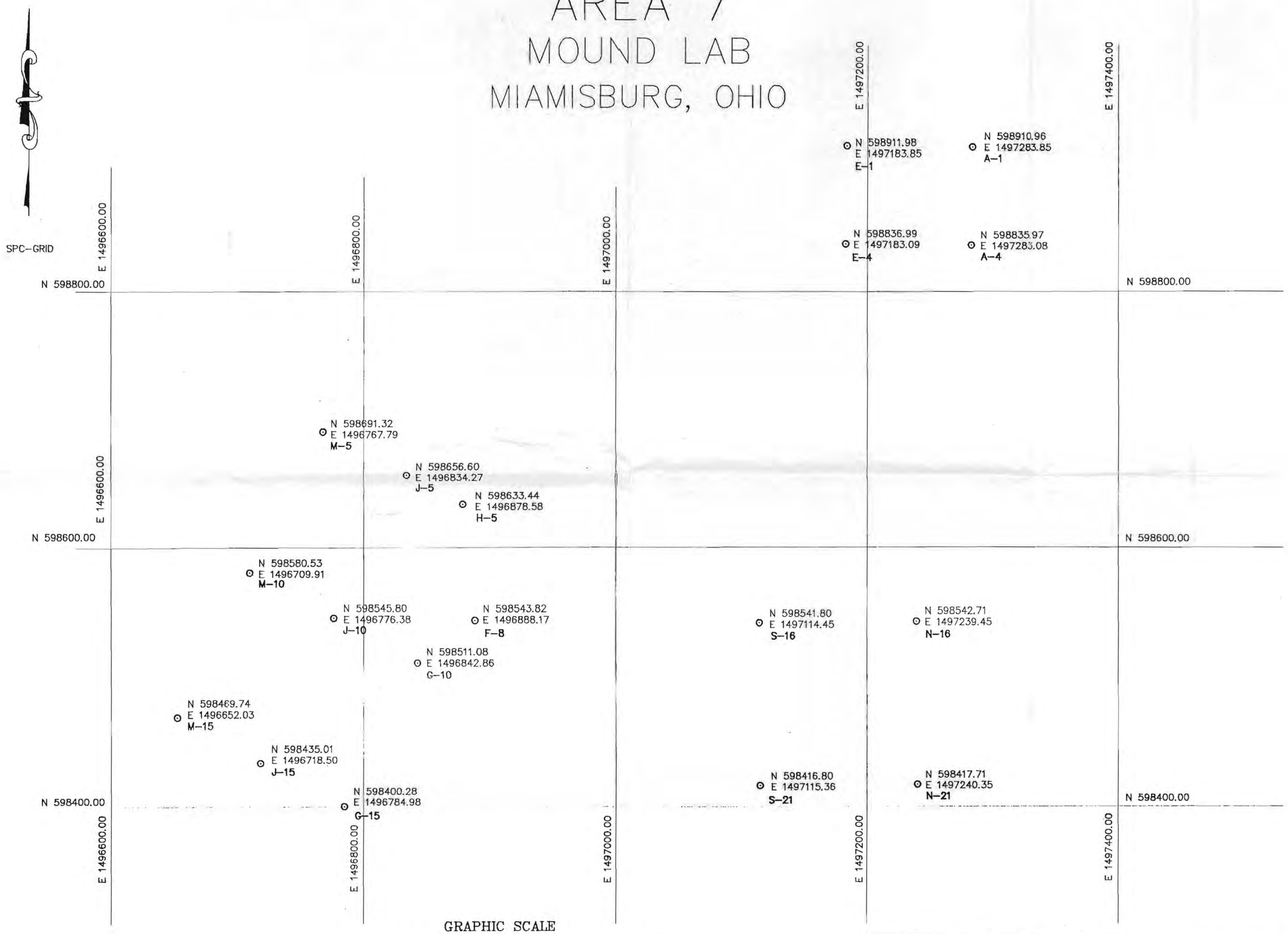
⊙ LOCATED POINT A-1 GRID LOCATION

Shaw Weiss & DeNaples
Engineers & Environmental Scientists
14 West First Street • Dayton, Ohio 45402

SCALE 1"=50'	DRAWN SBM	CHECKED JPH
DATE 7/19/94	JOB NO. L2952	

2502 1002 - 96022800696 Box 28136

AREA 7
MOUND LAB
MIAMISBURG, OHIO



GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)
1 inch = 50 ft.

APPENDIX B

PLATE 1 SURVEY MAP
OHIO STATE PLANE COORDINATE SYSTEM

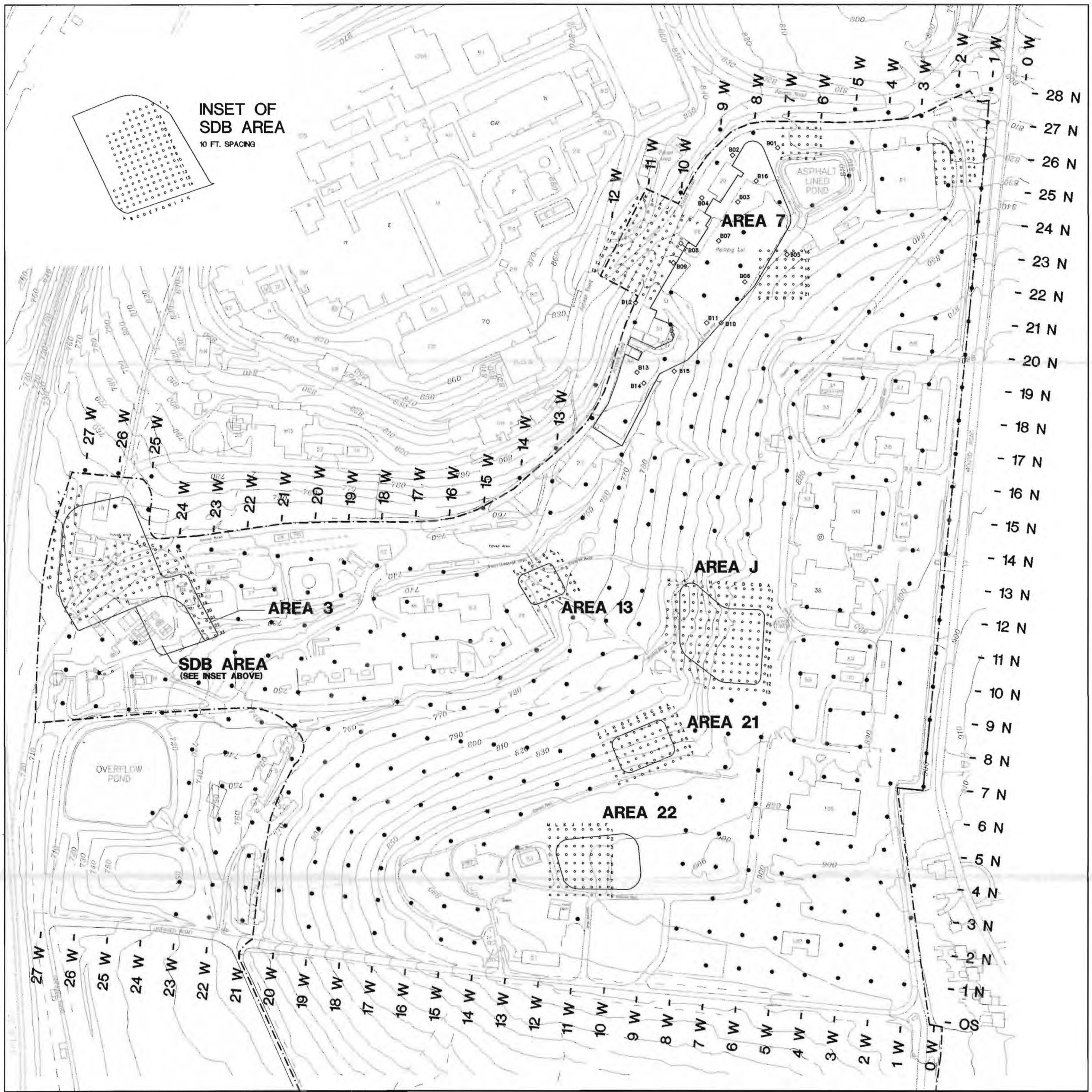
LEGEND

⊙ LOCATED POINT A-1 GRID LOCATION

Shaw Weiss & DeNaples
Engineers & Environmental Scientists
14 West First Street • Dayton, Ohio 45402

SCALE 1"=50'	DRAWN SBM	CHECKED JPH
DATE 7/11/94	JOB NO. L2952	

25021002-9602280069-TBM #28136



Mound Plant

Location Map

N

True North

Contour Interval 10 ft.

100 0 100 200

SCALE (FEET)

FIGURE:

PLATE 1

TITLE:

MOUND PLANT OPERABLE UNIT 5 PHASE 1 RI/FS OPERATIONAL AREA

LOCATIONS OF AREAS OF CONCERN

LEGEND

- Structures
- Plant Boundary
- Paved/Unpaved Roadway
- Ephemeral Stream
- 700 Contour Line
- OU5 Boundary
- ◇ Soil Boring
- ● Non-AOC Operational Area Sampling and Survey Locations: Soil Gas Samples, Mound Soil Screening Facility Radiological Samples, and FIDLER Survey (Proposed)
- ○ AOC Sampling and Survey Locations: Soil Gas Samples, Mound Soil Screening Facility Radiological Samples, and FIDLER Survey (Proposed)
- 1 N - / 1 W - Grid Lines

Note: Information on Basemap is Derived from the Weston OU9 Site Scoping Report, 1993, & Referenced to the 1927 Ohio State Plane Coordinate System

E:\MAPS\MOUND\MSC.DWG 12/05/94

25021002-9602280069 8 Box 2813