

**DISTRIBUTION
UNIT MANAGERS' MEETING
200 AREA GROUNDWATER AND SOURCE OPERABLE UNITS**

094535

Bryan Foley.....	DOE-RL RP (A5-13)
Marvin Furman	DOE-RL RP (A5-13)
Ellen Mattlin	DOE-RL EAP (A2-15)
Mike Thompson	DOE-RL RP (A5-13)
Arlene Tortoso	DOE-RL RP (H0-12)
Lisa Treichel	DOE-HQ (EM-442)
Dennis Faulk.....	EPA (B5-01)
Brenda Becker-Khaleel	WDOE (Kennewick) (B5-18)
Zelma Maine	WDOE (Kennewick) (B5-18)
Tina Masterson-Heggen	WDOE (Kennewick) (B5-18)
John Price.....	WDOE (Kennewick) (B5-18)
Matt Mills.....	WDOE (Kennewick) (B5-18)
Lynn Curry	BHI (H0-19)
Garrett Day	BHI (H0-19)
Bruce Ford.....	BHI (H0-21)
Alison Kent.....	BHI (H0-21)
Greg Mitchem	BHI (H0-19)
Joan Woolard.....	BHI (H0-02)
Tim Lee.....	CHI (H9-02)
Virginia Rohay	CHI (H0-19)
L. Craig Swanson	CHI (H9-02)
Mary Todd.....	CHI (H9-03)
Curtis Wittreich	CHI (H9-03)
Stuart Luttrell	PNNL (K6-96)
Mark Sweeney	PNNL (K6-81)
Administrative Record (2)	BHI (H0-09)

Please inform Alison Kent – BHI (372-9192)
of deletions or additions to the distribution list.

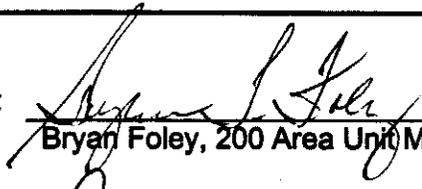
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Meeting Minutes Transmittal/Approval
Unit Managers' Meeting
200 Area Groundwater and Source Operable Units
3350 George Washington Way, Richland, Washington
JULY 2001

094535

APPROVAL:


Bryan Foley, 200 Area Unit Manager, DOE/RL (A5-13)

Date

Aug 29, 2001

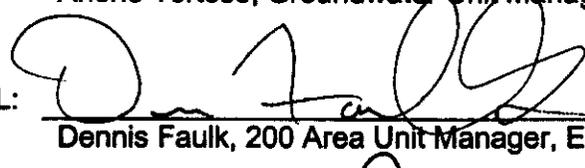
APPROVAL:


Arlene Tortoso, Groundwater Unit Manager, DOE/RL (H0-12)

Date

8/29/01

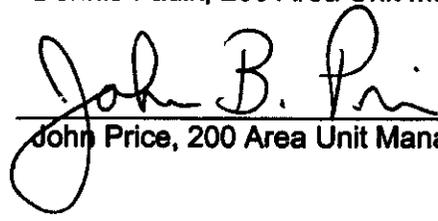
APPROVAL:


Dennis Faulk, 200 Area Unit Manager, EPA (B5-01)

Date

11-15-01

APPROVAL:


John Price, 200 Area Unit Manager, Ecology (B5-18)

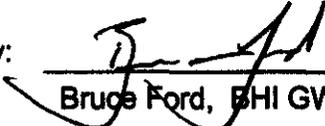
Date

15-Nov-01

Meeting minutes are attached. Minutes are comprised of the following:

Attachment 1	--	Agenda
Attachment 2	--	Attendance Record
Attachment 3	--	200 Area Current Action Log
Attachment 4	--	200 Area UMM Minutes – JULY 2001
Attachment 5	--	Carbon Tetrachloride Soil Vapor Monitoring Data for July 1999 through June 2001
Attachment 6	--	T-26 Borehole Sampling Field Screening Results
Attachment 7	--	216-B-38 Trench Location Map and Geophysical Logging Results

Prepared by:  Date 8-29-01
Alison Kent, BHI GW/VZ Integration Project (H0-21)

Concurrence by:  Date 8/29/01
Bruce Ford, BHI GW/VZ Integration Project (H0-21)

UNIT MANAGERS' MEETING AGENDA 094535

3350 George Washington Way
July 26, 2001

9:00 a.m. – 11:00 a.m. 200 Area Room 1B45

General (10 minutes)

- Outstanding Action Items (attached)
- Open for regulatory topics or action items.
- Performance Reporting evaluation (RODs and RDR/RAWP)
- Review of Land Use Presentation to HAB
- Status of TPA Change Packages
 - M-20-01-01 (addresses RCRA TSD closure plan milestones)
 - M-13-01-XX (addresses M-13-00L)
 - M-15-00-06 (addresses M-15 milestones for 200-PW-2)
- FY 2002 Detailed Work Plan status

200-UP-1 (10 minutes)

- Pump and Treat treatment system operation's status
- Monitoring well installation and characterization sampling status
- CERCLA 5-year review design upgrade status
- Open discussion

200-ZP-1 (10 minutes)

- Pump and Treat treatment system operation's status
- PFP well planning and field preparation status
- Open discussion

200-PW-1 Plutonium/Organic-Rich Process Waste OU (10 minutes)

- Soil Vapor Extraction system
 - Active system status
 - Passive system status
 - Open discussion
- RI/FS Work
 - Work Plan Status
 - Dispersed CCl₄ Plume DQO Status and Schedule

200-CW-1 Gable/B Pond and Ditches Cooling Water OU (5 minutes)

- Feasibility Study Status

200-CS-1 Chemical Sewer OU (5 minutes)

- Status of 216-A-29 Ditch Sampling Activity

200-TW-1 Scavenged and 200-TW-2 Tank Waste OUs (10 minutes)

- Status of Field Activities
 - Preliminary screening results
 - Location of the 216-B-38 Trench borehole

200-PW-2 Uranium-Rich Process Waste OU (5 minutes)

- Status of Workplan

Carbon Tetrachloride Rebound Concentrations
Monitored at 200-PW-1 (200-ZP-2) Soil Vapor Extraction Sites
July 1999 - June 2001

200-PW-1 (200-ZP-2) Location (Well or Probe) Asset Type	Site	Zone	07/30/99 [ppmv]	09/14/99 [ppmv]	07/20/99 [ppmv]	11/30/99 [ppmv]	12/20/99 [ppmv]	01/25/00 [ppmv]	03/07/00 [ppmv]	06/02/2000 [ppmv]	06/22/2000 [ppmv]	07/24/2000 [ppmv]	08/27/2000 [ppmv]	09/25/2000 [ppmv]	10/31/2000 [ppmv]	11/11/2000 [ppmv]	11/29/2000 [ppmv]	12/24/2000 [ppmv]	02/12/2001 [ppmv]	02/28/2001 [ppmv]	03/20/2001 [ppmv]	04/30/2001 [ppmv]	05/30/2001 [ppmv]	06/29/2001 [ppmv]	
CPT-17/10 R	Z-9	2	2.1	2.8	2.3	1.7	3.1	2.8	2.0	1.7	4.2	4.4	3.4	4.2	4.4	4.3	3.7	5.2	4.8	5.7	5.3	6.8	5.1	4.7	
CPT-18/15 R	Z-9	2	1.3	3.5	0	1.8	1.8	4.3	2.8	2.5	3.4	3.4	5.1	3.4	4.4	4.3	2.1	3.0	2.3	1.5	1.5	3.2	2.0	2.5	
CPT-19/25 R	Z-9	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.5	1.1	1.5	1.3	0.0	1.3	
CPT-39/25 R	Z-1A	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11.8	16.5	5.7	15.4	0.0	0.0	
CPT-4A/25 R	Z-1A	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	
CPT-50/28 R	Z-1A	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
CPT-13A/30 R	Z-1A	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
CPT-7A/32 R	Z-1A	2	2.3	1.9	2.8	2.3	4.4	4.7	3.9	4.3	3.9	4.3	4.3	3.9	4.3	4.3	3.3	2.8	2.2	2.2	3.6	2.4	2.5	1.8	0.0
CPT-27/33 R	Z-9	2	1.1	0	1.2	1.2	1.3	1.6	1.3	1.2	1.8	1.8	1.8	1.2	1.8	1.8	1.2	2.6	5.5	5.2	5.1	2.7	1.9	1.7	0.0
CPT-1A/35 R	Z-12	2	2.5	3.1	2.8	4.1	3.3	4.2	3.7	3.7	4.3	4.0	3.7	4.0	3.7	3.7	5.1	4.9	3.0	2.6	2.0	2.6	1.4	1.7	0.0
CPT-3A/40 R	Z-12	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
CPT-31A/45 R	Z-9	2	51.7	54.6	42	50.3	78	70.4	81.8	54.0	84	88.7	91.4	122	94.4	80.8	84.4	92.8	81.6	86.8	65.8	127	86.8	81.8	0.0
W15-20A/55/72	Z-9	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
CPT-5A/60 R	Z-9	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
W15-21A/55/70	Z-9	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
CPT-1B/75 R	Z-9	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
W15-62/82 R	Z-9	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
W15-65/82 R	Z-9	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
CPT-27A/86 R	Z-9	2	66.6	12.8	123	90.7	133	123	141	113	186	186	186	186	186	186	148	161	153	172	121	188	139	161	0.0
CPT-23B/87 R	Z-9	2	49.3	151	165	104	170	180	181	68.7	205	186	174	214	195	127	135	197	146	188	121	224	148	174	0.0
W15-85/92 R	Z-9	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
W15-152/113 R	Z-12	2	1.8	22.1	24.7	17.7	3.7	22.9	3.1	1.8	13.7	5.2	2.9	5.2	2.9	2.9	5.2	5.2	3.8	8.0	2.3	51.3	18.8	16.9	0.0
W15-217/115 R	Z-9	3	88.6	287	28.3	204	317	370	400	92.0	442	359	359	432	249	130	205	280	160	339	86.5	360	124	153	0.0
CPT-2A/118 R	Z-9	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	
W15-220A/57/116	Z-9	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	
W15-158U/123 R	Z-1A	3	78.6	103	134	132	152	134	186	151	141	176	171	174	171	171	164	197	239	200	284	34.0	17.5	26.7	0.0
W15-167/123 R	Z-1A	3	88.8	115	144	106	104	248	216	187	174	136	136	187	174	171	136	166	166	135	97.2	34.0	17.5	26.7	0.0
W15-218S/130	Z-9	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	
W15-249/134 R	Z-1B	3	74.8	132	173	148	60.0	178	137	78.3	154	85.2	51.0	170	184	202	177	175	214	164	46.7	54.4	40.1	36	0.0
W15-249/136 R	Z-1A	3	130	96.7	85.5	110	130	183	186	170	184	169	177	170	184	202	177	175	214	164	46.7	54.4	40.1	36	0.0
W15-218S/155	Z-9	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	
W15-220S/171	Z-9	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	
W15-8U/189 R	Z-9	6	19.3	1.1	8.6	12.0	12.1	14.4	9.0	12.3	11.9	11.0	20.4	10.1	5.9	5.5	8.8	8.3	5.8	5.2	1.4	14.5	12.5	14.2	0.0

(a) sample pump failure
(b) Sampler comment: The well caps were off on wells W15-65 and W15-82. In addition, wells W15-217 and W15-9L are suspected according to sample results to be undergoing maintenance.
(c) Sampler comment: W15-217, W15-9L, and W15-82 show readings that are lower than expected. Well W15-85 appears to have returned to normal.
(d) Sampler comment: W15-217, W15-9L, and W15-82 show readings that are lower than expected. Well W15-85 appears to have returned to normal.
(e) Well caps were back on wells on 1/10/00 during sampling.
(f) Well caps: chit (at alphasites) level conducted on 1/12/00 in W15-82, W15-84, W15-85.
(g) VJR note: chit (at alphasites) level conducted on 1/17/00 in W15-82, W15-84, W15-85.
(h) tubing cut.

MEETING MINUTES
200 AREA GROUNDWATER AND SOURCE OPERABLE UNITS
UNIT MANAGERS' MEETING -- 200 AREA
July 26, 2001

Attendees: See Attachment #2

Agenda: See Attachment #1

Topics of Discussion:

1. General

- Outstanding Action Items – (see attached).
- Open for Regulatory Topics or Action Items – No discussion.
- Performance Reporting Evaluation (RODs and RDR/RAWP) – The RDRAs and RODs are being reviewed.
- Review of Land Use Presentation to HAB – The members of the HAB would like to see what the team has developed. A workshop is being arranged by Moses Jarayssi for August. Three white papers will be out.
- Status of TPA Change Packages – The M-15-00-06 will be transmitted with the Work Plan. The M-20 and M-13 drafts have been submitted to the Regulatory Compliance and Analysis Division (RCA) at DOE-RL. M-13-00 will include M-13-00L and M-13-00M. A Feasibility Study for the M-20-54 for the CX Tanks has not been established. Therefore, it is proposed that it be a TBD or tied to the M-15-00C milestone for completing all RI/FS work by December 31, 2008.
- FY 2002 DWP – DOE-RL wants to meet with the regulators before the August 28, 2001, meeting to provide more detail on the scope. DOE-RL will set up this meeting. Ecology prefers a meeting early in the week of August 20, 2001.

2. 200-UP-1

- Pump and Treat Treatment Systems Operations Status – The extraction well was shut down Monday, July 23, 2001, due to an ETF power outage which impacted the secondary flow meter at ETF. The well is expected to be back on line Monday, July 30, 2001. There will be an outage in August to replace the pump and water monitoring equipment. The outage should last less than a week. Ecology inquired about the monitoring of water level recovery when it is shut down. Garrett Day will follow-up on this.
- Monitoring Well Installation and Characterization Sampling Status – The well was drilled and all the MSE characterization samples are collected and the well is being installed.

- CERCLA 5-year Review Design Upgrade Status – Designs are being developed and field work should begin in October. The second well should be ready for use in January. A meeting with ETF was held to discuss operations and upgrades responsibility.
- Open Discussion – Ecology stated that the annual average pumping rate has to be 50 gallons per minute (gpm) or more. DOE-RL wants to discuss the particulars on the pumping rate following the design work.

3. 200-ZP-1

- Pump and Treat Treatment Systems Operation's Status – The wells are operating at approximately 170 – 175 gpm. A sub-contractor is in the process of platform and valve upgrades. The upgrades are expected to be completed in August. Reduced flows and some down time are expected during upgrades.
- PFP Well Planning and Field Preparation Status – A meeting with DOE-RL, EPA and Ecology was held last week to resolve comments on the Sampling and Analysis Plan (SAP). The comments were incorporated. The title of a section entitled "Aquifer Testing" was deleted. The SAP is ready for DOE-RL's signature. Drilling plans are in the final stages and drilling is scheduled to begin in late August.

4. 200-PW-1 Plutonium/Organic-Rich Process Waste OU

- Soil Vapor Extraction System
 - Active System Status – The system was running at about 400 – 425 cubic feet per minute (cfm) prior to relocation from Z-1A to Z-9 in mid-July 2001. On July 20, 2001, an extraction test was started on Well W15-95L, which was deepened earlier this year. The concentrations increased from 35 ppm to 62 ppm when the extraction system was started up. Then, on July 23, 2001, the second deepened well, W15-84L, was hooked up to the system. An increase from 27 ppm to 29 ppm was noticed. Soil vapor extraction will be conducted at Z-9 for the remainder of the fiscal year.
 - Non-operational Monitoring Status – The monitoring data shows nothing unusual; it is consistent with results of previous monitoring. EPA mentioned that they have looked into various geostatistical methods for locating future sample locations as part of a class assignment at Washington State University. EPA found it difficult to select locations because the data set was so limited.
- RI/FS Work
 - Work Plan Status – The work plan is due out at the end of the calendar year.
 - Dispersed CCl₄ Plume DQO Status and Schedule – A meeting with EPA occurred last week to bring Dennis Faulk up to date on the status and he provided comments. The DQO draft is in internal review. A briefing will take place in August with EPA. The DQO for PW-1 will be in two parts. The first part

will be for representative sites. The second part will be for dispersed plume investigation.

5. 200-CW-1 Gable/B Pond and Ditches Cooling Water OU

- Feasibility Study Status – The feasibility study work is broken into two activities – inside the fence line work this year, and outside the fence line and ecological work next year. Preparation for internal reviews of the modeling work for two waste site types (B Pond and the B-2-2 Ditch) in August is in progress.

6. 200-CS-1 Chemical Sewer OU

- Status of 216-A Ditch Sampling Activity – Contract issues were resolved on the Office of River Protection support task. The schedule was impacted by delays in getting the contracted issues resolved. The Sampling Plan will be out in late August or early September for review by Ecology.

7. 200-TW-1 Scavenged and 200-TW-2 Tank Waste OUs

- Status of Field Activities

- Preliminary Screening Results – The abandonment of the T-26 borehole was completed July 26, 2001. A handout identifying sampling locations was distributed. Samples could not be collected at 12.5 – 15 feet. The results reported in the handout include field screening results from a hand held beta gamma probe.
- Location of the 216-B-38 Trench Borehole – A package containing the location map and geophysical logging results was distributed. Based on the results, DOE-RL is recommending that the deep borehole be located five feet west of the C3340 drive casing. Ecology met with DOE earlier in the day to review the geophysical logging results, and they concur with the proposed location. This activity is being coordinated with Tony Knepp's group. That group may want samples from our bagged intervals. They are also interested in doing some modeling work next year.

8. 200-PW-2 Uranium-Rich Process Waste OU

- Status of the Workplan – The Work Plan, Rev. 0, is close to being signed out of RL.

Comparison of Maximum Carbon Tetrachloride Rebound Concentrations
Monitored at 200-PW-1 (200-ZP-2) Soil Vapor Extraction Sites
FY 1997 - FY 2001

200-PW-1 (200-ZP-2)			November 1996 - July 1997		October 1997 - September 1998		July 1998 - September 1999		July 1999 - June 2001	
Location (Well or Probe) /feet bgs	Site	Zone	Maximum Rebound Carbon Tetrachloride (ppmv)	months of rebound						
79-03/ 5 ft	Z-18	1	0	8	0	3	0	12		
79-06/ 5 ft	Z-1A	1	not measured		not measured		1.4	12		
79-11/ 5 ft	Z-1A	1	0	8	0	6	2.9	12		
86-05/ 5 ft	Z-9	1	not measured		not measured		0	3		
86-05-01/ 5 ft	Z-9	1	not measured		not measured		0	3		
86-06/ 5 ft	Z-9	1	1.3	8	0	9	1.9	6		
87-05/ 5 ft	Z-1A	1	not measured		0	3	1.0	12		
87-09/ 5 ft	Z-1A	1	not measured		1.5	3	2.6	12		
94-02/ 5 ft	Z-9	1	0	8	not measured		1.4	3		
95-11/ 5 ft	Z-9	1	0	8	2.1	9	2.5	6		
95-12/ 5 ft	Z-9	1	1.1	8	1.5	9	1.3	6		
95-14/ 5 ft	Z-9	1	not measured		not measured		0	3		
CPT-13A/ 9 ft	Z-1A	2	not measured		0	6	1.0	12		
CPT-16/ 10 ft	Z-9	2	not measured		0	9	1.5	6		
CPT-17/ 10 ft	Z-9	2	not measured		4.2	9	5.1	6	6.6	24
CPT-18/ 15 ft	Z-9	2	not measured		6.5	9	5.0	6	5.2	24
CPT-31/25 ft	Z-1A	2	not measured		0	6	0	12		
CPT-16/ 25 ft	Z-9	2	not measured		not measured		not measured		1.8	24
CPT-32/ 25 ft	Z-1A	2	not measured		9.1	6	10	12	16.5	18
CPT-4A/ 25 ft	Z-1A	2	not measured		not measured		not measured		3.5	0
CPT-30/ 28 ft	Z-18	2	not measured		not measured		3.2	12	1.4	18
CPT-13A/ 30 ft	Z-1A	2	2.2	8	not measured		not measured		3.6	18
CPT-7A/ 32 ft	Z-1A	2	not measured		2.3	6	5.4	12	6.2	18
CPT-27/ 33 ft	Z-9	2	1.2	8	not measured		not measured		2.6	24
CPT-1A/ 35 ft	Z-18	2	2.0	8	1.4	3	3.0	12	7.7	18
CPT-33/ 40 ft	Z-1A	2	not measured		2.0	3	2.6	12		
CPT-34/ 40 ft	Z-18	2	2.3	8	not measured		1.7	12	1.9	0
CPT-21A/ 45 ft	Z-9	2	65.6	8	52.7	9	57	3	127	24
W15-220ST/ 52 ft	Z-9	2	2	8	not measured		1.6	3	2.5	24
CPT-28/ 60 ft	Z-9	2	not measured		1.5	0	3.7	3		
CPT-9A/ 60 ft	Z-9	2	45.5	8	41.1	0	44	3	68	24
CPT-30/ 68 ft	Z-18	2	1.7	8	not measured		3.0	12		
CPT-13A/ 70 ft	Z-1A	2	5.2	8	not measured		5.6	12		
CPT-24/70 ft	Z-9	2	not measured		3.2	9	3.6	3		
W15-219SST/ 70 ft	Z-9	2	14.6	8	not measured		7.6	3	7.8	24
CPT-18/ 75 ft	Z-9	2	not measured		not measured		not measured		18	24
CPT-31/ 76 ft	Z-1A	2	4.0	8	not measured		4.2	12		
CPT-33/ 80 ft	Z-1A	2	5.8	8	not measured		9.2	12		
W15-82/ 82 ft	Z-9	2	28.9	8	5.5	9	46	6	55	24
W15-95/ 82 ft	Z-9	2	not measured		15.3	9	39	6	43	21
CPT-21A/ 86 ft	Z-9	2	221	8	206	9	148	6	195	24
CPT-34/ 86 ft	Z-18	2	36.3	8	5.9	3	0	12		
W15-218SST/ 86 ft	Z-9	2	not measured		not measured		0	3		
CPT-28/ 87 ft	Z-9	2	280	8	230	9	203	6	224	24
CPT-1A/ 91 ft	Z-18	2	3.9	8	not measured		4.2	12		
CPT-4A/ 91 ft	Z-1A	2	not measured		7.7	3	14	12		
CPT-9A/ 91 ft	Z-9	2	103	8	34.5	9	72	3		
W15-85/ 92 ft	Z-9	2	not measured		not measured		not measured		51	24
W18-252SST/ 100 ft	Z-1A	2	38.2	8	17.8	3	24	12		
W18-152/ 113 ft	Z-12	2	46.8	8	11.1	3	33	12	25	18
W15-217/ 115 ft	Z-9	3	797	8	630	9	561	6	442	24
CPT-24/ 118 ft	Z-9	3	44.6	8	37.7	9	37	6	35	24
W15-220SST/ 118 ft	Z-9	4	21.9	8	not measured		36	3	34	24
W18-158L/ 123 ft	Z-1A	3	not measured		143	3	492	12	284	18
W18-167/ 123 ft	Z-1A	3	323	8	79.7	3	228	12	248	18
W15-219SST/ 130 ft	Z-9	4	298	8	not measured		47	3	54	24
W18-249/ 134 ft	Z-18	3	206	8	20.4	3	215	12	176	18
W18-248/ 136 ft	Z-1A	3	288	8	86.3	3	177	12	214	18
W15-219SST/ 155 ft	Z-9	5	59.6	8	not measured		24	3	44	24
W15-220SST/ 185 ft	Z-9	5	14.5	8	not measured		13	3	15	24
W15-6L/ 189 ft	Z-9	6	22.6	8	17.8	9	1.3	6		
W15-9L/ 189 ft	Z-9	6	18.3	8	15.0	9	15	6	20	21
W18-7/ 200 ft	Z-1A	6	28.5	8	17.3	3	29	12		
W18-6L/ 208 ft	Z-1A	6	36	8	31.3	6	15	12		
W18-12/ 210 ft	Z-18	6	not measured		3.8	3	19	12		

* - based on location (Z-1A/18/12 or Z-9) of monitoring point; specific points may be beyond SVE zone of influence during particular operating configurations

- Z-18 and Z-12 wells off-line Oct 96 - Apr 98

- CPT-1A, CPT-9A, and possibly CPT-7A appeared to be beyond SVE zone of influence in Oct 96 based on differential pressure (BHI-01105, p. 6-1)

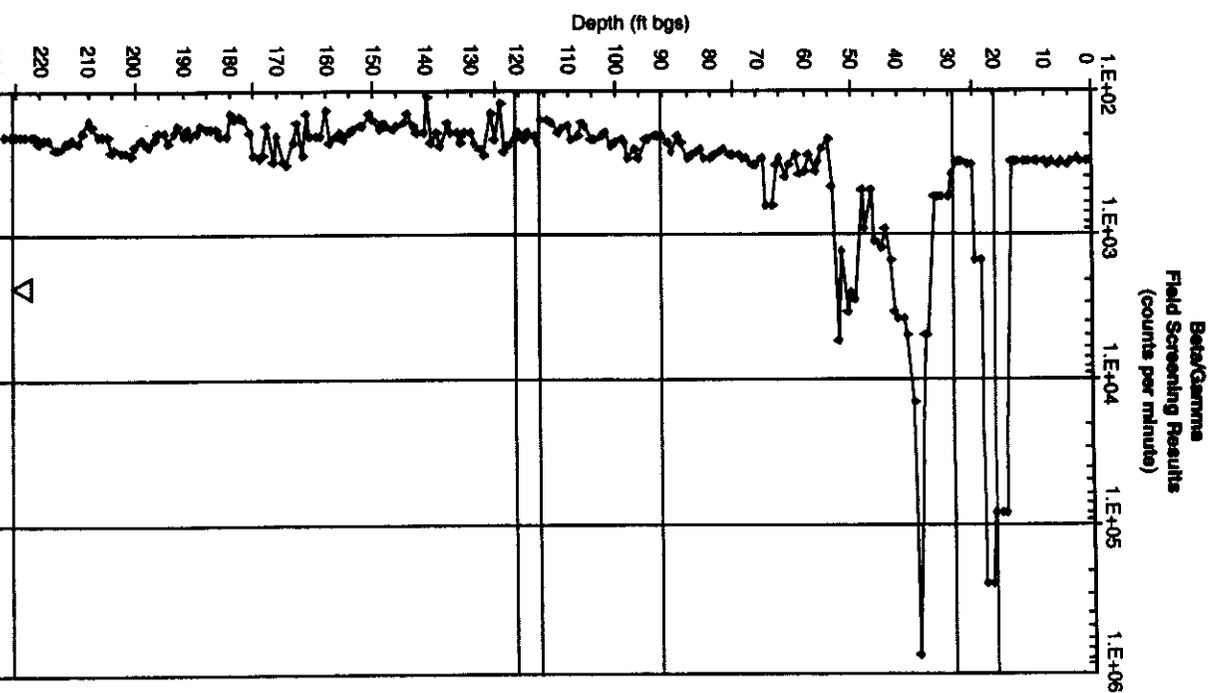
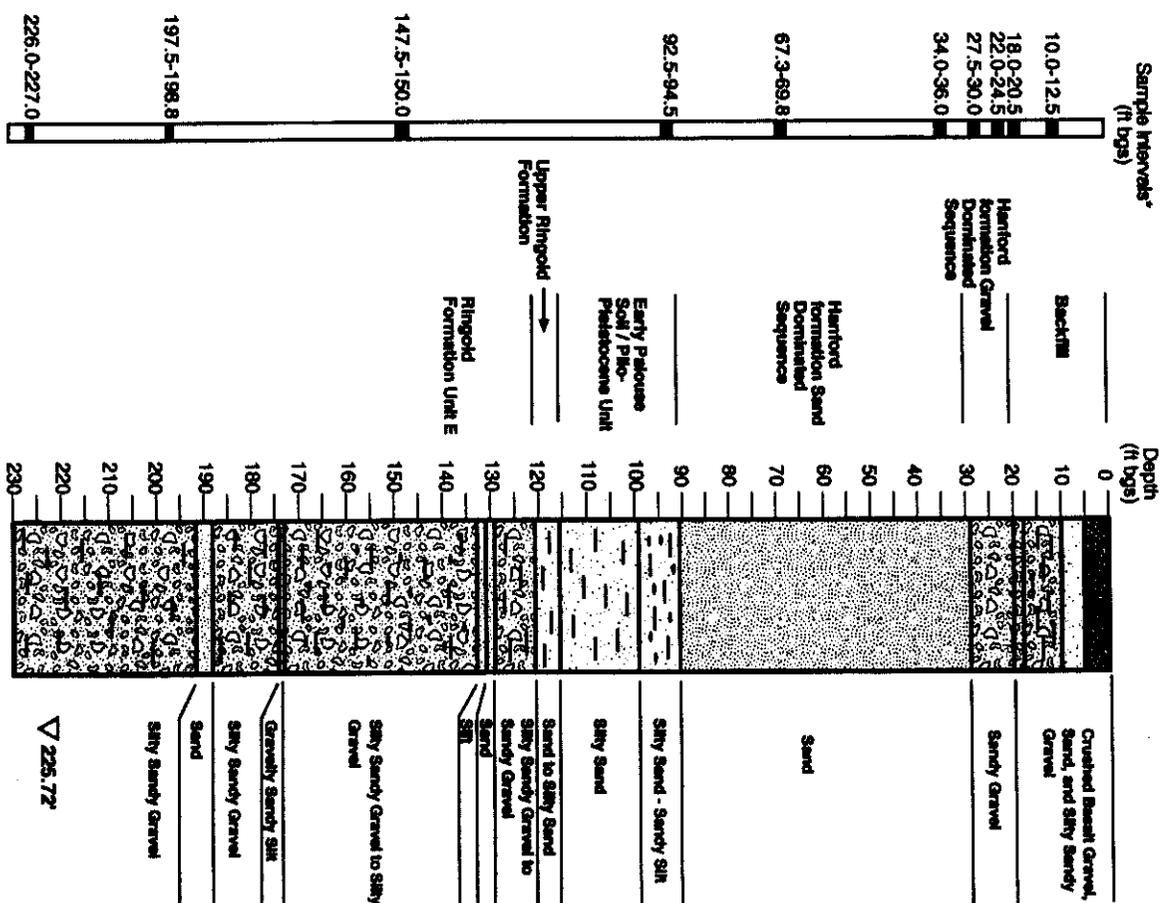
- CPT-9A, CPT-21A, CPT-28 beyond SVE zone of influence in May 98 based on CCl₄ concentrations and airflow modeling based on measured vacuums (BHI-01105, p. 6-1)

Carbon Tetrachloride Rebound Concentrations
Monitored at 200-PW-1 (200-ZP-2) Soil Vapor Extraction Sites
July 1999 - June 2001

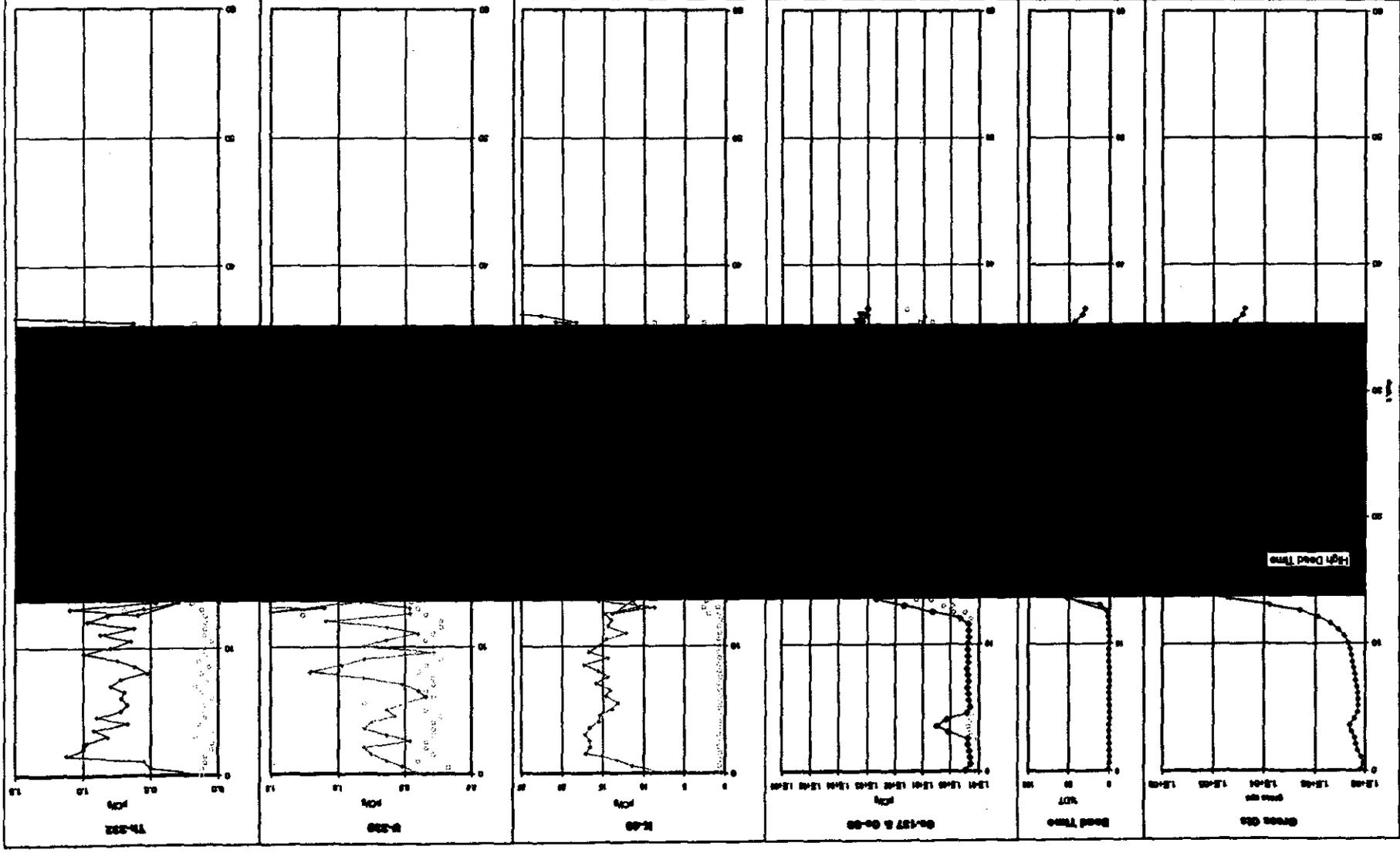
200-PW-1 (200-ZP-2) Location (Well or Probe)	Site	Zone	07/30/99 [ppmv]	09/14/99 [ppmv]	07/20/99 [ppmv]	11/30/99 [ppmv]	12/20/99 [ppmv]	01/25/00 [ppmv]	03/07/00 [ppmv]	06/02/2000 [ppmv]	06/22/2000 [ppmv]	07/24/2000 [ppmv]	08/27/2000 [ppmv]	09/25/2000 [ppmv]	10/31/2000 [ppmv]	11/11/2000 [ppmv]	11/29/2000 [ppmv]	12/24/2000 [ppmv]	02/12/2001 [ppmv]	02/28/2001 [ppmv]	03/20/2001 [ppmv]	04/30/2001 [ppmv]	05/30/2001 [ppmv]	06/29/2001 [ppmv]
CPT-17/10 R	Z-9	2	2.1	2.8	2.3	1.7	3.1	2.8	2.0	1.7	4.2	4.4	3.4	4.2	4.4	4.3	3.7	5.2	4.8	5.7	5.3	6.8	5.1	4.7
CPT-18/15 R	Z-9	2	1.3	3.5	0	1.8	1.8	4.3	2.8	2.5	3.4	4.1	3.8	2.0	4.1	3.2	2.1	3.0	2.3	1.5	1.5	3.2	2.0	2.5
CPT-19/25 R	Z-9	2	0	0	0	0	0	0	0	0	0	1.6	1.4	1.8	1.7	1.0	0	1.5	1.1	1.5	1.3	1.3	0.0	1.3
CPT-39/25 R	Z-1A	2	0	0	0	0	0	0	0	0	7.2	6.1	8.6	6.4	6.4	6.3	7.6	11.8	16.5	5.7	15.4	0.0	0.0	0.0
CPT-4A/25 R	Z-1A	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CPT-50/28 R	Z-1A	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CPT-13A/30 R	Z-1A	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CPT-7A/32 R	Z-1A	2	2.3	1.9	2.8	2.3	4.4	4.7	3.9	4.3	3.9	4.3	3.9	4.3	3.9	4.3	3.9	4.3	3.9	4.3	3.9	4.3	3.9	4.3
CPT-27/33 R	Z-9	2	1.1	0	1.2	1.2	1.3	1.6	1.3	1.2	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
CPT-1A/35 R	Z-12	2	2.5	3.1	2.8	4.1	3.3	4.2	3.7	3.7	4.3	4.0	3.7	4.3	4.0	3.7	4.3	4.0	3.7	4.3	4.0	3.7	4.3	4.0
CPT-3A/40 R	Z-12	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CPT-21A/45 R	Z-9	2	51.7	54.6	42	50.3	78	70.4	81.8	54.0	84	88.7	91.4	122	94.4	80.8	84.4	92.8	81.6	86.8	65.8	127	86.8	81.8
W15-20A/55/70	Z-9	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CPT-5A/60 R	Z-9	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
W15-21A/65/70	Z-9	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CPT-1B/75 R	Z-9	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
W15-62/82 R	Z-9	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
W15-65/82 R	Z-9	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CPT-27A/86 R	Z-9	2	66.6	12.8	123	90.7	133	123	141	113	186	186	186	186	186	186	148	161	153	172	121	188	139	161
CPT-23B/87 R	Z-9	2	49.3	151	165	104	170	180	181	68.7	205	174	214	195	127	135	148	197	146	188	121	224	148	174
W15-85/92 R	Z-9	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
W15-152/113 R	Z-12	2	1.8	22.1	24.7	17.7	3.7	22.9	3.1	5.2	2.9	13.7	5.2	2.9	13.7	5.2	2.9	13.7	5.2	3.8	8.0	2.3	51.3	18.8
W15-217/115 R	Z-9	3	88.6	287	28.3	204	317	370	400	92.0	442	359	569	185	432	190	205	280	160	339	86.5	360	124	153
CPT-2A/118 R	Z-9	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
W15-220A/57/116	Z-9	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
W15-158U/123 R	Z-1A	3	78.6	103	134	132	152	134	186	151	141	176	171	174	171	171	164	197	239	200	284	36.0	14.2	17.1
W15-167/123 R	Z-1A	3	88.8	115	144	106	104	248	216	187	174	136	136	136	136	136	136	166	166	135	97.2	34.0	17.5	26.7
W15-218S/130	Z-9	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
W15-249/134 R	Z-1B	3	74.8	132	173	148	60.0	178	137	78.3	154	85.2	51.0	184	202	177	169	175	214	164	178	54.4	40.1	36
W15-249/136 R	Z-1A	3	130	96.7	85.5	110	130	183	186	170	184	202	177	184	202	177	169	175	214	164	178	54.4	40.1	36
W15-218S/155	Z-9	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
W15-220S/171	Z-9	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
W15-8U/189 R	Z-9	6	19.3	1.1	8.6	12.0	12.1	14.4	9.0	12.3	11.9	11.0	20.4	10.1	5.9	5.5	8.8	8.3	5.8	5.2	1.4	14.5	12.5	14.2

(a) sample pump failure
 (b) Sampler comment: The well caps were off on wells W15-65 and W15-82. In addition, wells W15-217 and W15-9L are suspected according to sample results to be undergoing maintenance.
 These wells will be resealed on 11/01/00.
 (c) Sampler comment: W15-217, W15-9L, and W15-82 show readings that are lower than expected. Well W15-85 appears to have returned to normal.
 (d) Sampler comment: W15-217, W15-9L, and W15-82 show readings that are lower than expected. Well W15-85 appears to have returned to normal.
 Well caps were back on wells on 11/01/00 during sampling.
 (e) Well caps: chit (air-tightness) test conducted on 11/20/00 in W15-82, W15-84, W15-85.
 (f) Well caps: chit (air-tightness) test conducted on 11/20/00 in W15-82, W15-84, W15-85.
 (g) Inding out.

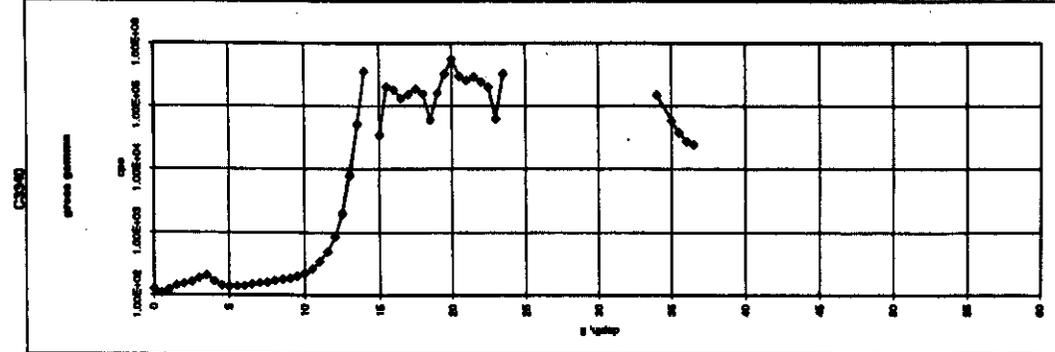
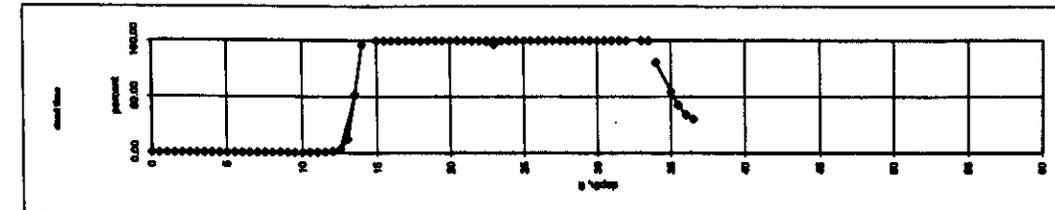
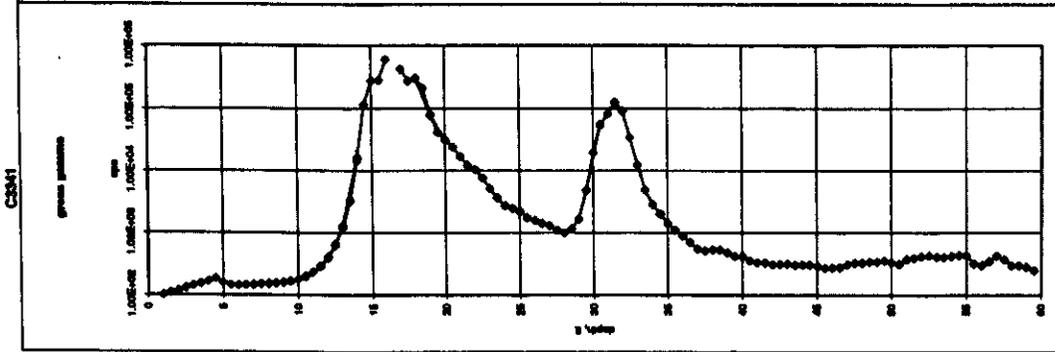
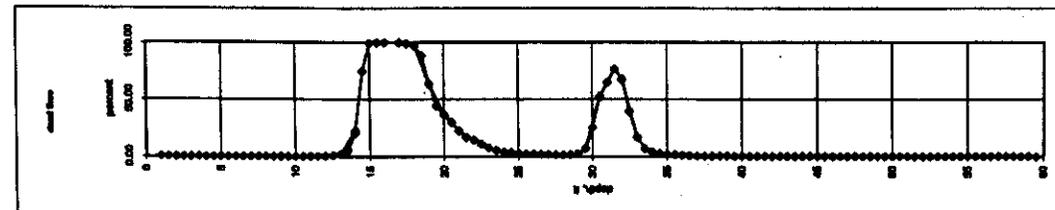
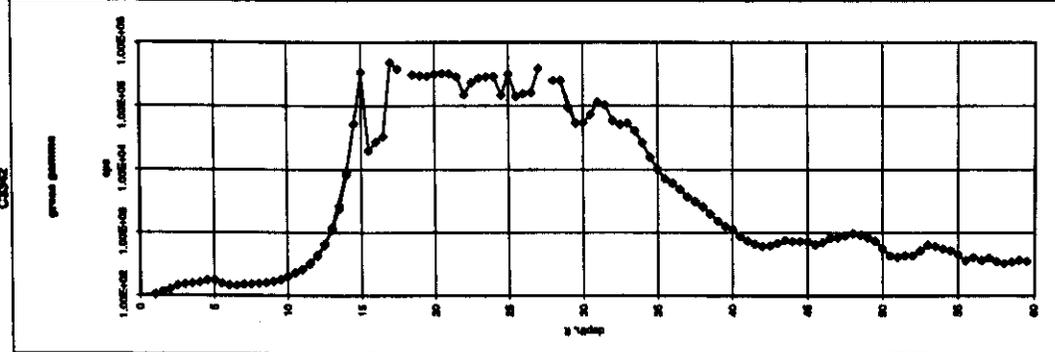
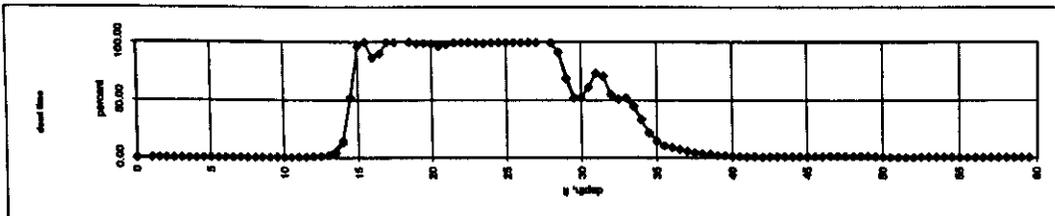
216-T-26 CFB Stratigraphy



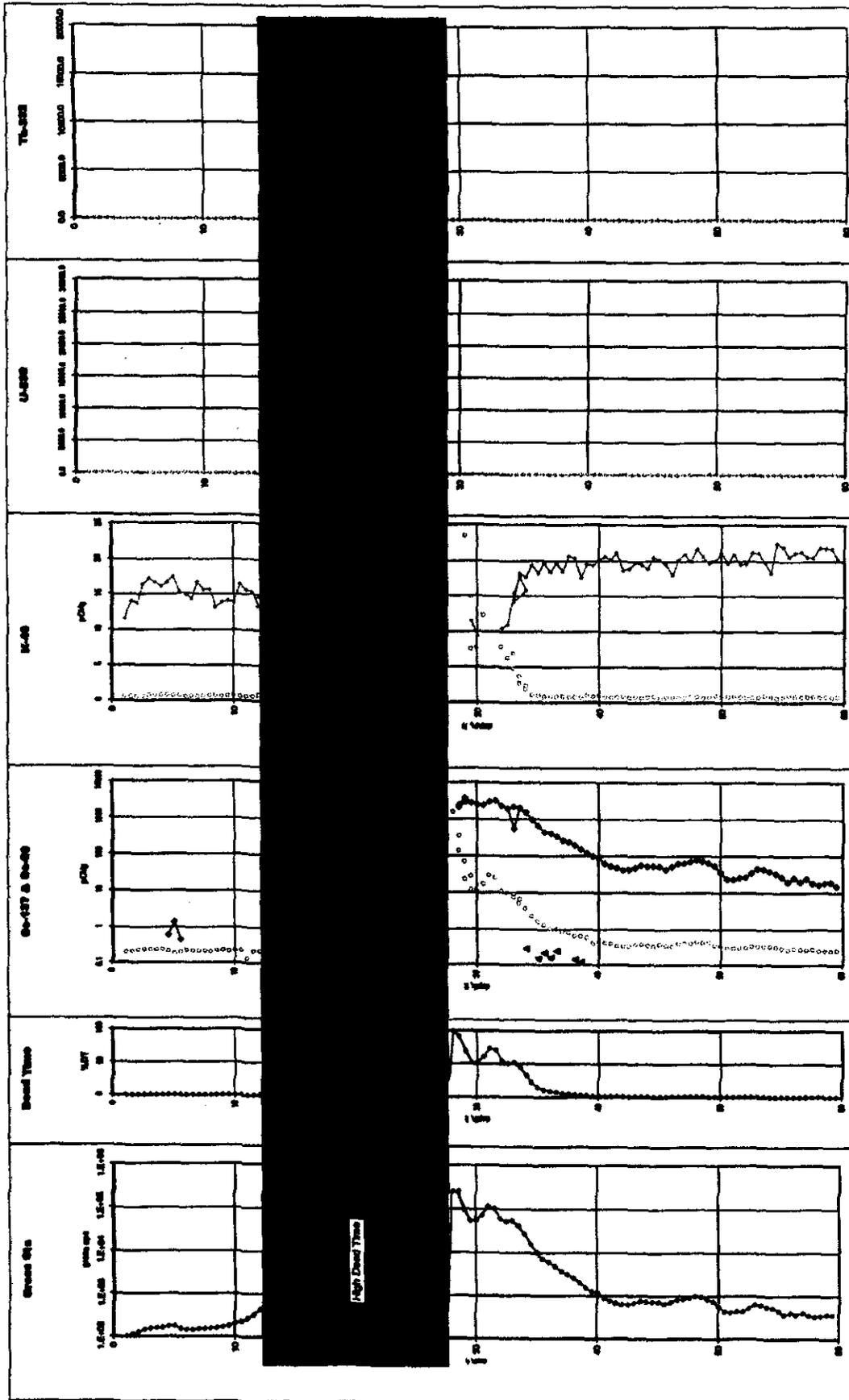
* Sample interval 12.5-15.0 ft bgs could not be collected due to recovery problems.



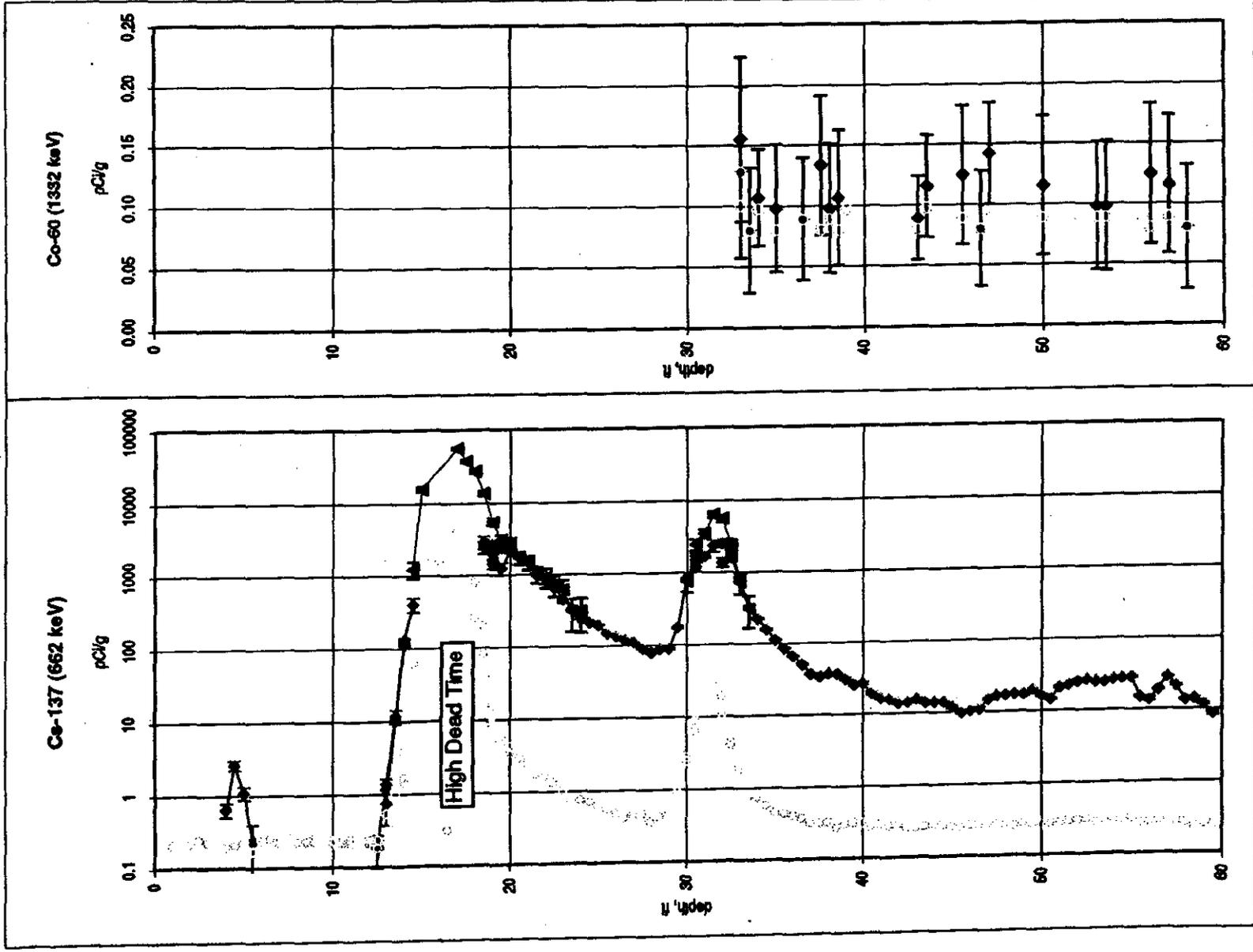
03340
Combustion Plot



63342
Combustion Plot

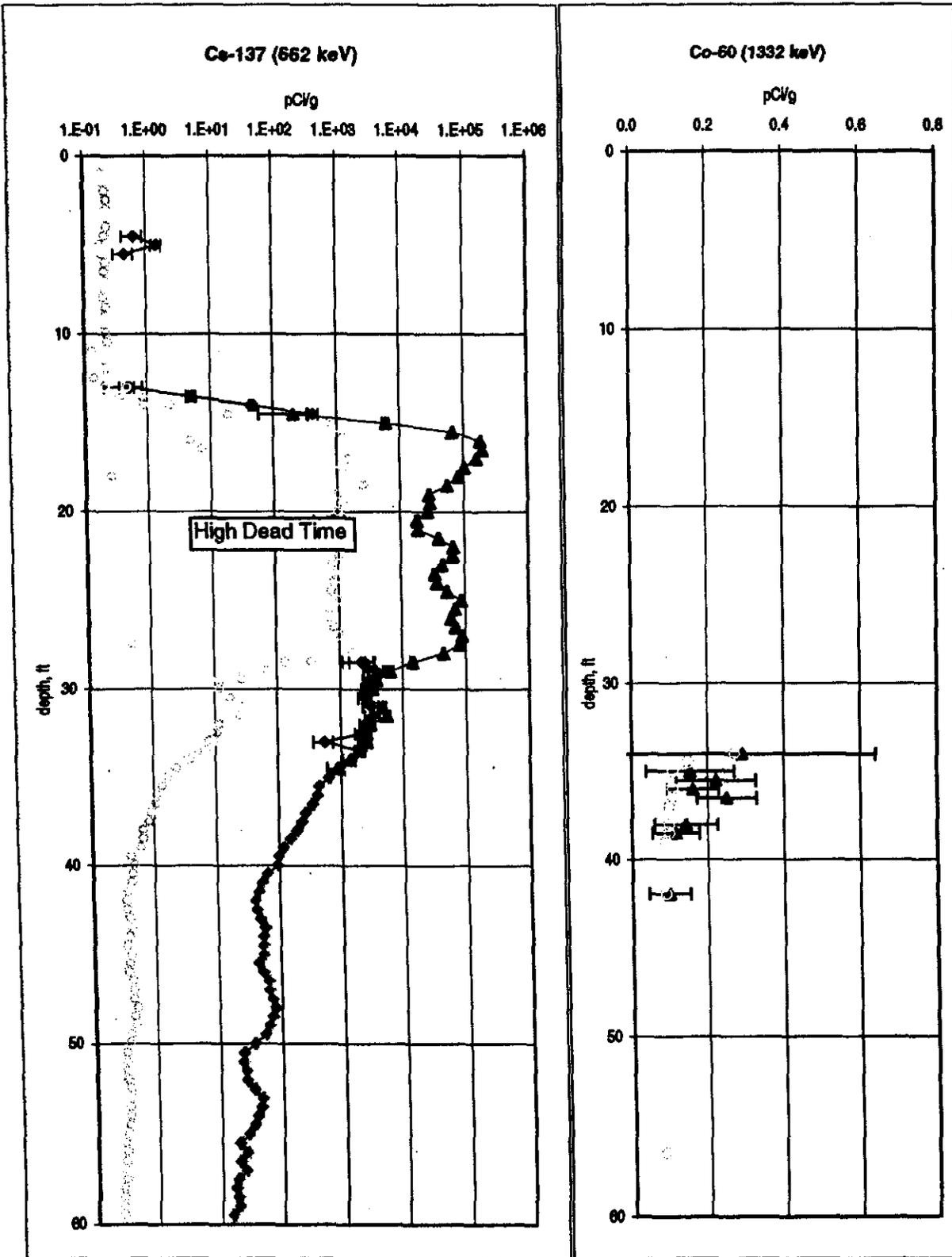


C3341 Man-Made Radionuclide Plots

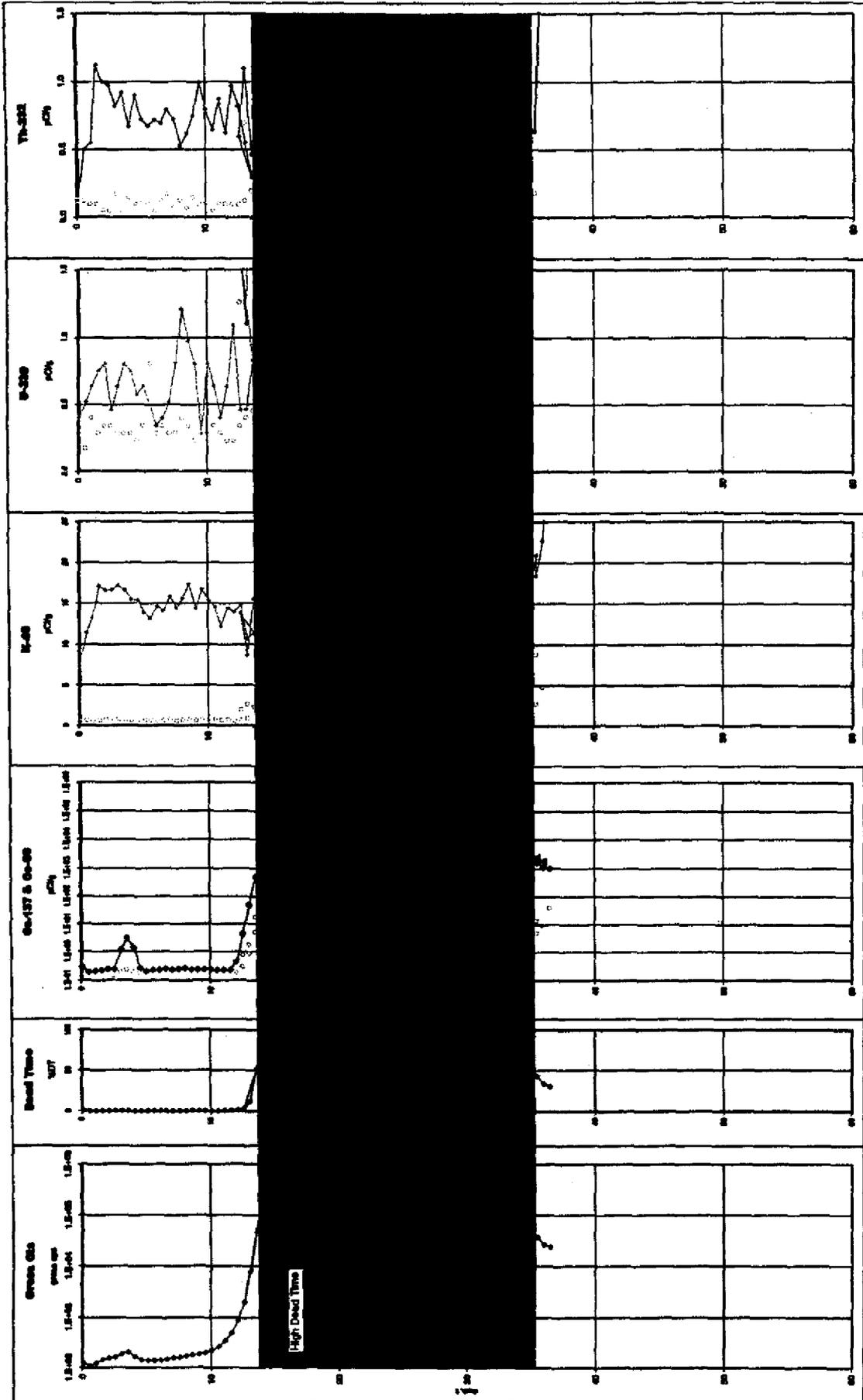


C3342

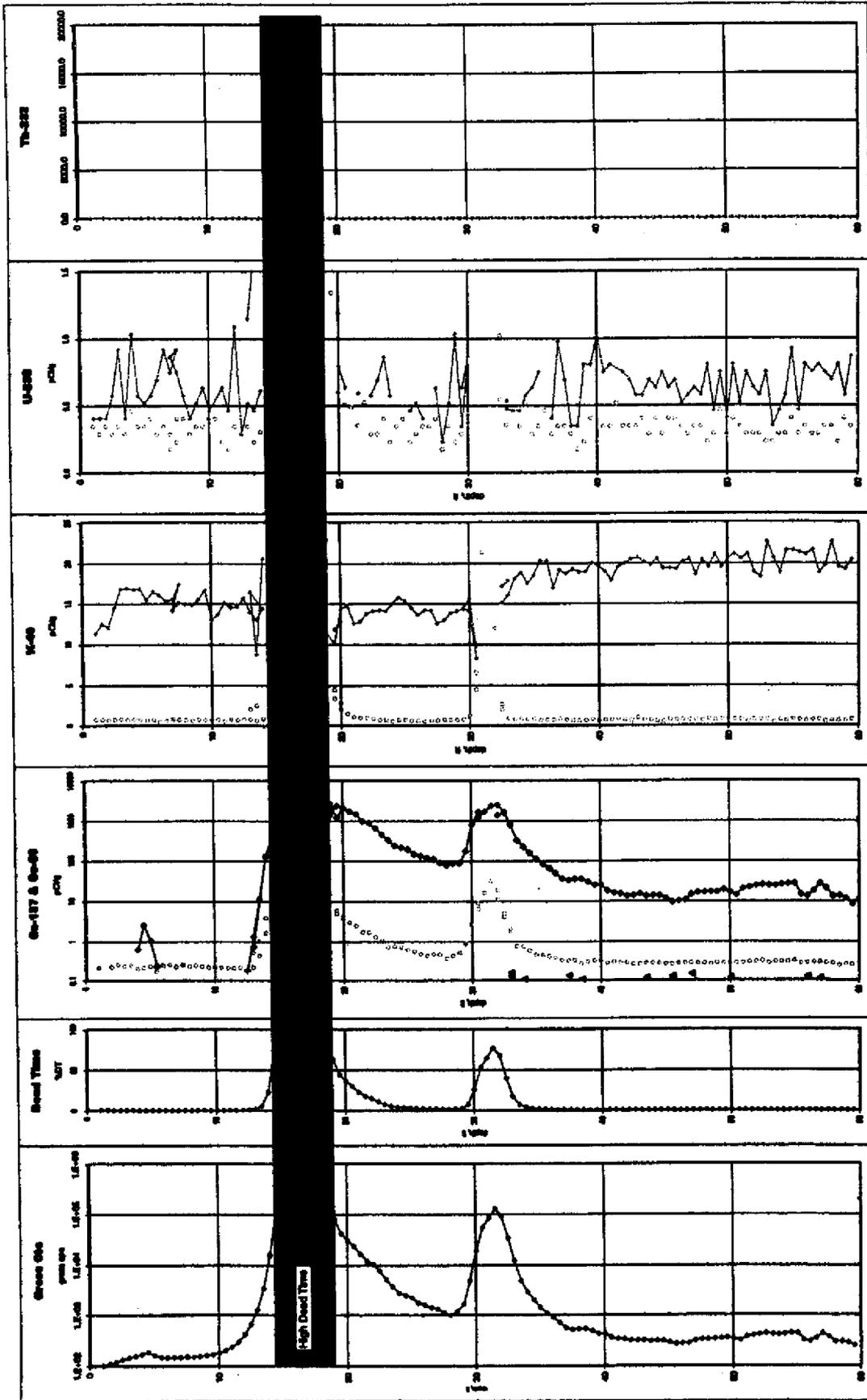
Man-Made Radionuclide Plots



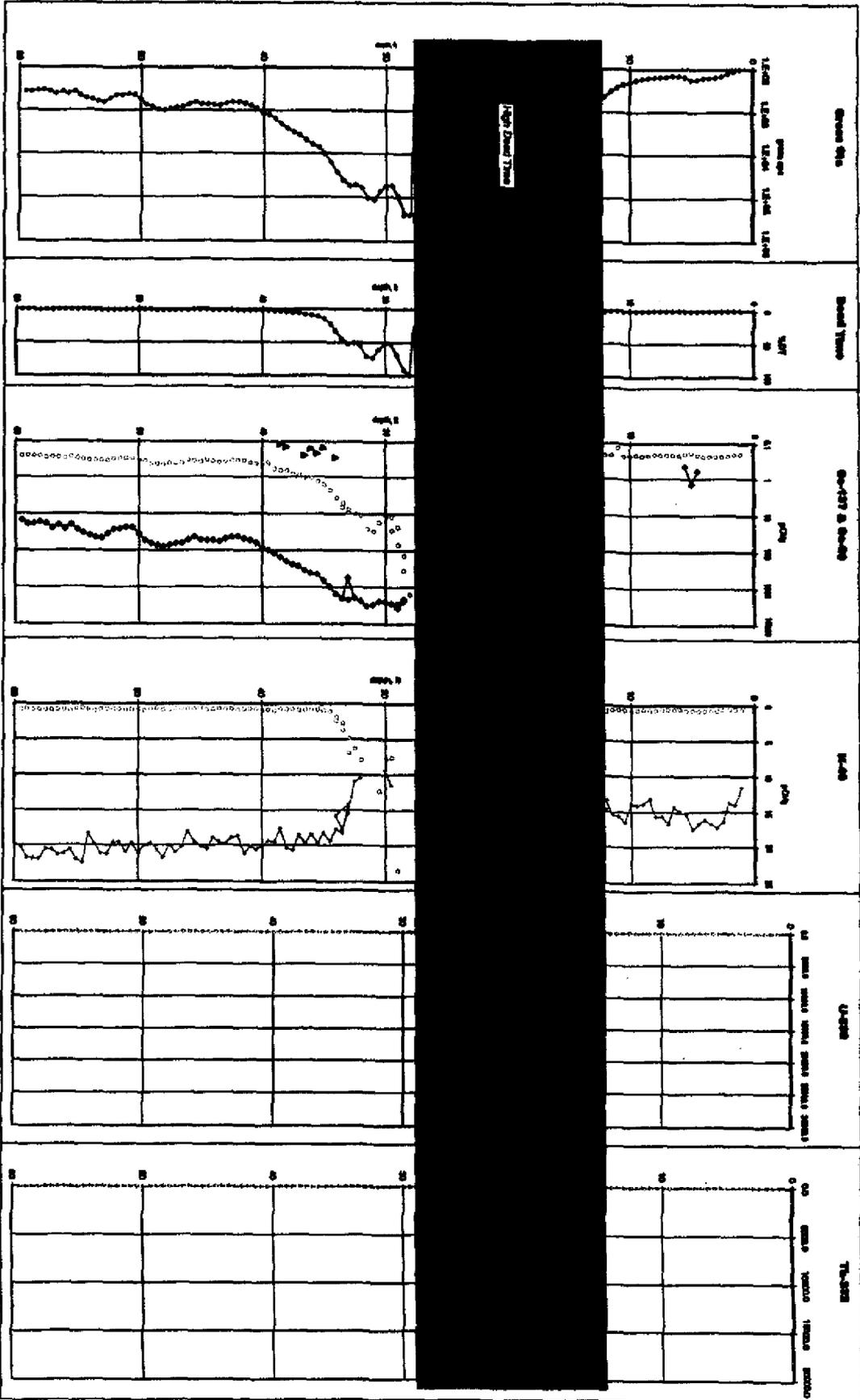
03340
Combustion Plot



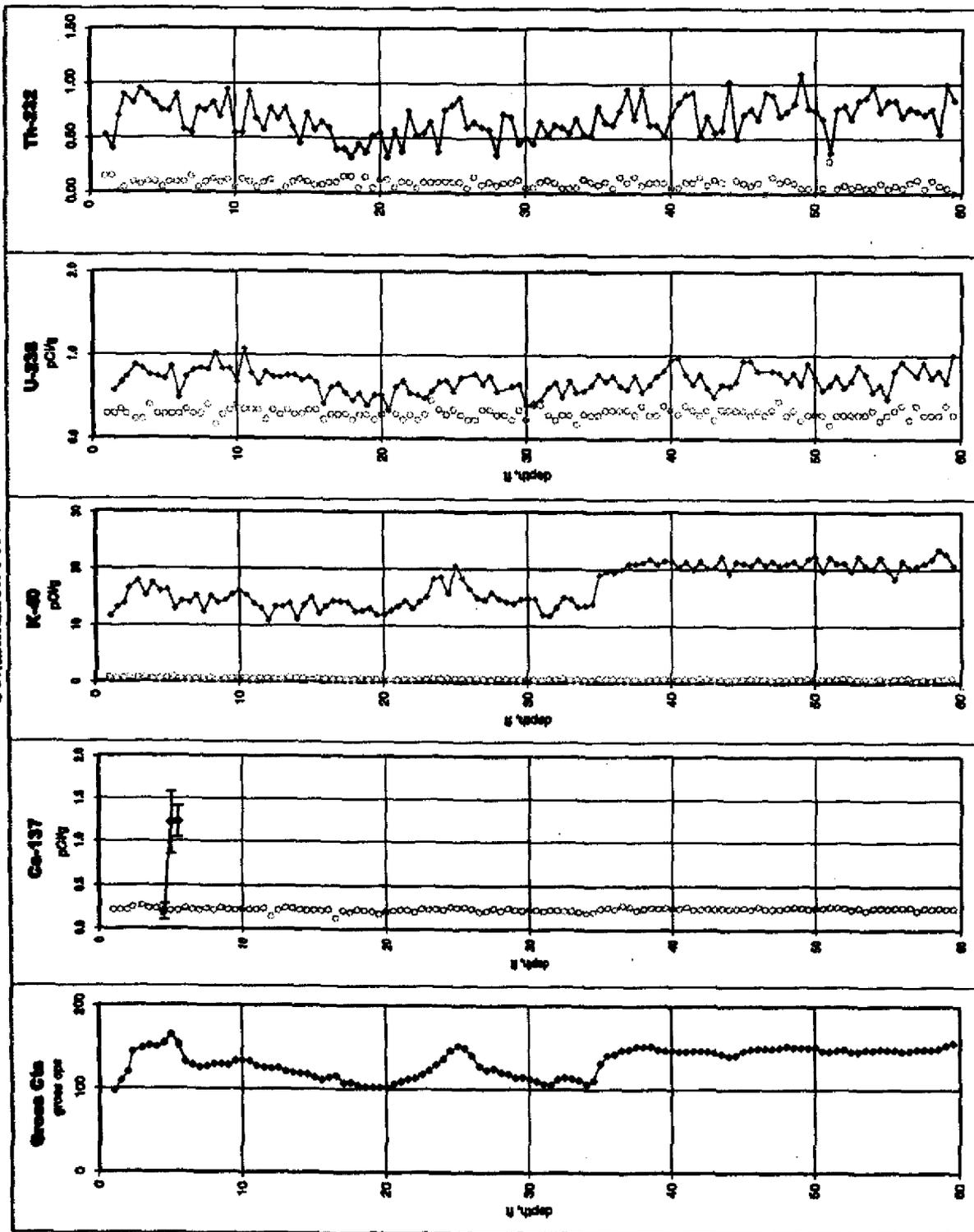
63341
Combustion Plot



03342
 @ Combustion Port



C3343
Combination Plot



094535

C3344
Combination Plot

