BECHTEL NATIONAL INC.

CLEAN II TRANSMITTAL/DELIVERABLE RECEIPT

Contract No. N-68711-92-D-4670 **Document Control No.:** CTO-0142/0142

File Code: 0208

TO: Contracting Officer
Naval Facilities Engineering Command
Southwest Division
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Building 127, Room 112
1220 Pacific Highway
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DATE: December 15, 1997
CTO #: 142
LOCATION: MCAS El Toro

FROM: D. J. Tedaldi, Ph.D., P.E., Project Manager

DESCRIPTION: Meeting Minutes, Site 24 Pilot Test Update - DTD October 29, 1997

TYPE: ____ Contract Deliverable (Cost) ____ CTO Deliverable (Technical) X Other

VERSION: NA REVISION #: ____

ADMIN RECORD: Yes X No ____ Category ____ Confidential ____
(PM to Identify)

SCHEDULED DELIVERY DATE: 12/15/97 ACTUAL DELIVERY DATE: 12/15/97

NUMBER OF COPIES SUBMITTED: O/3C/3E

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MEETING MINUTES

Meeting Subject: Site 24 Pilot Test Update	**Meeting Date**: October 29, 1997 **Meeting Time**: 10:00 AM **Meeting Place**: Conference Call **Meeting Notes Prepared By**: Patrick Brooks

Attendees: (*Part Time)

Navy	Bechtel	Other
Bernie Lindsey, SWDIV	Pat Brooks, CTOL	Glenn Kistner, U.S. EPA
	Tim Latas, Field Manager	Herb Levine, U.S. EPA
	Dante Tedaldi, PM	Tayseer Mahmoud, DTSC
		Larry Vitale, RWQCB

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Pat Brooks opened the meeting with a discussion of the vacuum-enhanced pumping test at well 24EX3. The test was initiated on 27 October and drawdown in the extraction well is about 10 feet. This compares to a drawdown of about 22 feet when the well was pumped without an applied vacuum. Additional data is needed to confirm the stabilized drawdown and will be presented as it is collected. Vapor results are not yet available, but samples analyzed with the portable PID and FID do not suggest high concentrations of TCE.

A deeper HydroPunch sample was collected at 24HCPT99 @ 190 feet bgs; TCE was not reported above the detection limit, which completes the vertical characterization of TCE contamination in that area. Additional samples were collected but the analytical data is not yet available. A summary of the HydroPunch analytical results are attached to these minutes.

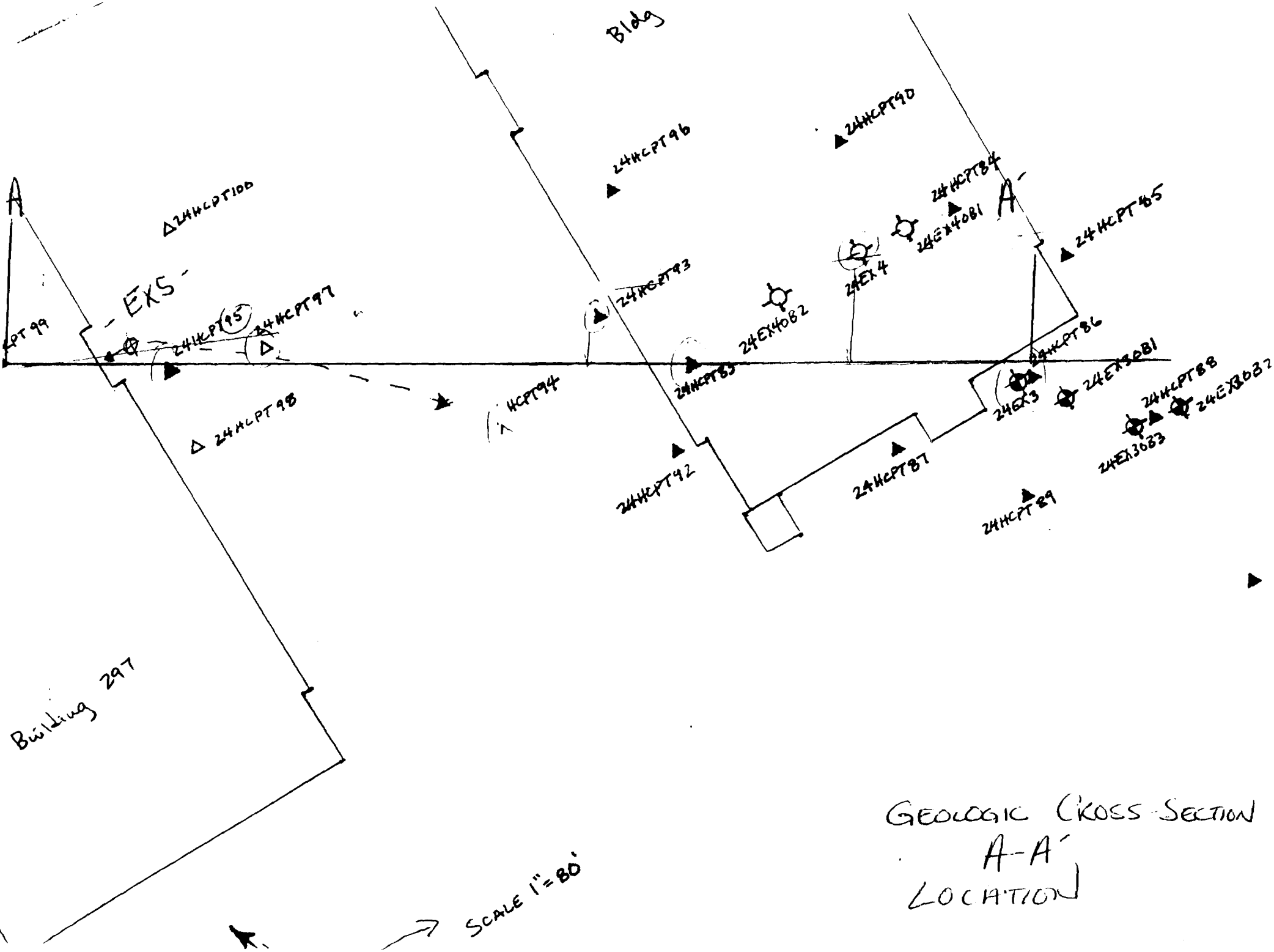
Also attached to these minutes is a cross-section showing the proposed location of injection well 24IN2. If analytical results indicate the limit of TCE contamination at about the 200 foot level and if coarse-grained beds are encountered, the well will be installed as proposed. The group concurred and Herb asked that he be kept current of the drilling progress. Pat agreed to fax Herb the preliminary boring log as soon as it was available. Because the well will be drilled using the triple tube method, the log will probably not be ready until the week of November 3.

Attached to these minutes are an updated summary of HydroPunch sample results and a cross-section showing the proposed location of 24IN2.

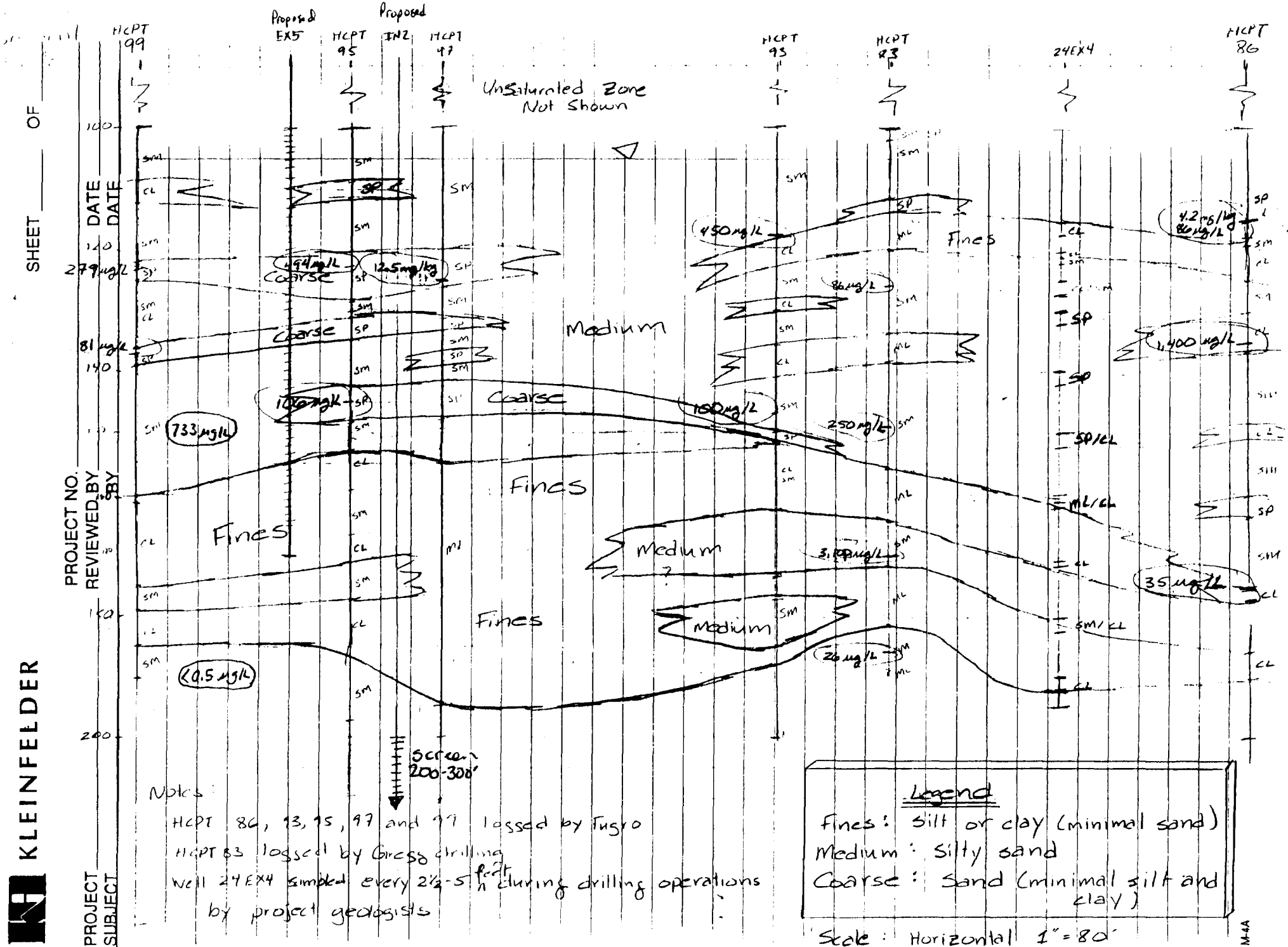
The Plan of Action for Site 24 field work for the next two weeks includes the following:

MEETING MINUTES (continued)

1. Begin long-term vacuum-enhanced test at extraction well 24EX3 (week of 20 October).
2. Present initial vacuum-enhanced test results.
3. Compile and present constant-rate aquifer test data from extraction well 24EX3.
4. Complete drill and installation of extraction well 24EX4.
5. Develop and sample wells 24EX4, 24EX4OB1 and 24EX4OB2.
6. Continue CPT/HydroPunch work within the TCE groundwater hot spot (initiated 14 October).
7. Finalize drilling locations of extraction wells 24EX5, 24EX6, and 24IN2 (to be discussed during today's conference call).
8. Based on agreement of proposed drilling locations, begin drilling 24EX5.



GEOLOGIC CROSS-SECTION
A-A'
LOCATION



WORKING DRAFT

Site 24 Groundwater Pilot Test
CPT and Hydropunch Summary

CPT Location	Attempt Location	Direct Push Depth	CPT Log Designation	Date	HSA Depth	Date	Soil Sample Depth	Soil Sample Number	Soil Sample results (mg/kg)	Date	Hydropunch Sample depth	Hydropunch Sample Number	Hydropunch Results (mg/L)	Date
24HCPT84	A	0-55	24CPT84A	6/17/97										
	B	0-200	24CP84B	6/17/97										
	C	0-151		6/18/97			126	1420001/01	TCE 71	6/19/97	120	1421001/01	TCE 2,500	6/18/97
							151	1420002/01	Toluene 2.4J	6/19/97			TCE 1,900	
													1,1-DCE 31JD	
													TPH 0.5 mg/L	
													TPH 0.3 mg/L	
											140	1421005/01	TCE 83	6/19/97
													Toluene 1 5	
	D	0-140	REFUSAL	6/19/97										
	E	0-154.5	REFUSAL	6/20/97							151	1421006/01	TCE 31	6/20/97
											152	1421007/01	TCE 35	6/20/97
													Toluene 1.0	
	F	0-54	REFUSAL	6/20/97										
24HCPT85	A	0-44	24CPT85A	6/18/97	0-65	6/25/97	125	1420003/01	TCE 22.9	6/23/97	120	1421013/01	TCE 590	6/23/97
									1,1-DCE 7.86				1,1-DCE 30.4	
													cis-1,2-DCE 0.376J	
													Chloroform 1.72	
													Carbon Tet. 2.28	
													PCE 5.39	
		160-201	24C85A1	6/25/97	65-160	6/25/97								
	B	0-51	24CP85B	6/18/97	0-160	6/26/97	144.5	1420004/01	TCE 95	6/24/97	140	1421015/01	TCE 64	6/24/97
		65-143	24CP85C	6/23/97									Toluene 9.2	
											175	1421018/04	TCE 4.6	6/26/97
													Carbon Tet. 1.2	
													Toluene 0.32J	
24HCPT86	A	0-55	24CP86A	6/19/97										
	B	0-53	24CP86B	6/19/97	0-60	6/24/97								
		60-137	24CP86C	6/24/97	60-160	6/25/97								

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		160-198	24C86B1	6/25/97										
	C	0-53	24CP86D	6/25/97	0-100	6/26/97	115	1420005/01	TCE 4.2J	6/27/97	110	1421019/13	TCE 86	
													1,1-DCE 34	
													Carbon TET. 1.6	
													PCE 6.9	
													Chloroform 1.4	
					100-130	6/27/97	AUGER BROKEN							
					0-130	7/1/97								
					130-135	7/2/97					135	1421029/01	TCE 940	7/1/97
													TCE 1,400	
	D	160-175.5	REFUSAL	7/7/97	0-105	7/3/97					174.5	1421038/01	TCE 35	7/7/97
					105-160	7/7/97								
24HCPT87	A	0-47	24CP87A	6/20/97	0-65	6/27/97								
		65-200	24C87A1	6/30/97										
	B	0-47.5	24CP87B	6/30/97	0-65	6/30/97	126.5	1420006/01	TCE 4.8J	7/1/97	120	1421027/01	TCE 27	7/1/97
									1,3-Dichlorb. 3.9J				Toluene 0.27J	
													Carbon Tet. 0.42J	
													PCE 2.8	
		65-145	REFUSAL	7/3/97	65-135	7/2/97					145	1421032/01	TCE 50	7/3/97
24HCPT88	A	0-56	24CP88A	6/23/97	0-70	6/27/97								
		60-181	24C88A1	6/27/97										
	B	0-52	24CP88B	6/23/97	0-65	7/3/97					120	1421035/01	TCE 4,900	7/3/97
													PCE 0.34	
	C	0-138	REFUSAL	7/11/97							138	1421048/01	TCE 410	7/11/97
	D	105-140	REFUSAL	7/14/97	0-105	7/14/97								
24HCPT89	A	0-51	24CP89A	6/24/97	0-60	6/27/97								
		60-61	24C89A1	6/30/97										
		65-203	24C89A2	6/30/97										
	B	0-51	REFUSAL	6/24/97	0-60	7/3/97								
	C	110-115	REFUSAL	7/10/97	0-110	7/9/97					115	1421045/01	TCE 250	7/10/97

Site 24 Groundwater Pilot Test
CPT and Hydropunch Summary

													1,1-DCE 52	
24HCPT90	A	0-189	24C90A	7/9/97										
	B	0-88	REFUSAL	7/9/97										
	C	0-185	REFUSAL	7/9/97			128	1420007/01	ND	7/9/97	120	1421041/01	TCE 48	7/9/97
													1,1-DCE 6.2	
							153	1420008/01	TCE 380	7/10/97	148	1421042/01	TCE 70	7/10/97
											185	1421043/01	TCE 96	7/10/97
													1,1-DCE 3.5	
24HCPT91	A	0-50	24C91A	7/11/97	0-60	7/14/97								
		60-148	24C91A1	7/14/97	60-160	7/15/97								
		160-185	24C91A2	7/15/97										
	B	0-148	REFUSAL	7/16/97	0-65	7/16/97	122	1420009/01	ND	7/16/97	120	1421049/01	TCE 7.7	7/16/97
											132	1421050/01	TCE 31	7/17/97
													1,1-DCE 4.7	
24HCPT 92	A	0-130	24C92A	7/14/97	0-130	7/15/97								
		130-195	24C92B	7/15/97										
	B	100-150	REFUSAL	7/17/97	0-100	7/17/97					128	1421052/01	TCE 223	7/17/97
											150	1421056/01	TCE 320	7/18/97
24HCPT93	A	0-201	24C93A	7/15/97										
	B	0-95	REFUSAL	7/22/97	0-65	7/15/97					117	1421064/01	TCE 450	7/23/97
		100-146.5	REFUSAL	7/23/97	65-100	7/23/97					146.5	1421066/01	TCE 100	7/23/97
24HCPT94	A	0-23	24C94A	7/15/97	0-30	7/15/97								
		30-95	24C94B	7/22/97	30-100	7/22/97								
	B	65-95	24C94A1	7/22/97	0-65	7/17/97					117	1421067/01	TCE 89	7/24/97
				7/24/97	65-100	7/22/97							1,1-DCE 92.6	
													PCE 1.58	
		100-150	24C94A2								145	1421071/01	TCE 49.7	7/24/97
24HCPT95	A	0-200	24C95A	7/16/97										
	B	0-23	REFUSAL											
	C	0-123	REFUSAL	7/23/97							123	1421062/01	TCE 494	7/23/97
													1,1-DCE 79	
	D	0-145	REFUSAL	7/24/97	0-140	7/24/97					145	1421071/01	TCE 106	7/24/97
24HCPT96	A	0-200	24C96A	7/18/97										
	B	0-98	REFUSAL	7/21/97										
	C	0-140	REFUSAL	7/21/97							125	1421058/01	TCE 1,330	7/21/97

Site 24 Groundwater Pilot Test
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													1,1-DCE 22	
											140	1421061/01	TCE 39.7	7/22/97
24HCPT97	A	0-148	CPT97A	10/14/97										
	B	0-60	CPT97B	10/14/97										
	B	155-209	CPT97B1	10/16/97	0-155	10/15/97								
	C						125	1422012	TCE 12.5	10/21/97				
	D													
	E													
24HCPT98	A	0-203	CPT98A	10/15/97										
	B													
	C													
	D													
	E													
24HCPT99	A	0-192	CPT99A	10/15/97										
	B													
	C				0-145	10/21/97					123	1421079	TCE 279E	10/20/97
													1,1-DCE 27.8	
													PCE 1.9	
													Carbon Tet 1.6	
											138	1421081	TCE 81	10/21/97
											150	1421083	TCE 733	10/22/97
	D													
	E										190	1421086	ND	10/23/97
24HCPT100	A	0-211	CPT100A	10/14/97										
	B				0-175	10/20/97	132	1422010	ND	10/17/97	122	1421072	TCE 15	10/17/97
							147	1422011	TCE 2.44	10/20/97	146	1421077	TCE 106E	10/17/97
											177	1421082	ND	10/21/97
	C													
24HCPT101	A	0-209	CPT101A	10/20/97										
	B													
24HCPT102	A	0-200	CPT102A	10/16/97										
	B													
24HCPT103	A	0-173	CPT103A	10/20/97										
	B													
24HCPT104	A	0-200	CPT104A	10/22/97										
	B													