TA-21-61

REQUESTOR DATA SHEET # 7132

Log Book _____ Page _____

Sampled by R Bohn / T. Sandoval / B. Hargo Collection Date 7/21/88 Time _____ Weather _____ Witness _____

Presampling Conference Completed With _____ On _____ Send Report To R. Bohn MS K490

Phone 5-0452 Source of Sample: TA-21-61 Reason for Sampling PCB survey

Group HSE-8 Site TA 21 Building 61 Room No. OUTSIDE

Priority Assigned: 1. Emergency; 2. Recognized Danger; 3. Imminent Deadline; (4) Special Survey; 5. Routine;

(Circle One) Priority Approval: _____ (1. GL or DGL; 2. or 3. AGL; 4. or 5. SL)

Method of Analysis Complies With: _____

Background Information Useful to Analyst (Contamination Levels, Hazards, Etc.) Analytical from outside yard.

Chain of Custody: Yes _____ (See Attached Form) No _____ Other Information _____

All Samples Submitted to HSE-9 Must Be Screened For Radioactivity. Samples Containing Greater Than 20 dpm Total Alpha or 100 dpm Combined Gamma/Beta Contamination Cannot Be Handled At TA-59.

Sample Number	Other I.D.	Sampling Location	Analysis Requested	Sampling Method	Sample Type	Preservative Utilized	Radioactivity Scan (dpm) Alpha	Radioactivity Scan (dpm) Beta/Gamma	Remarks
88.01155		21-61	PCB	grab	soil	None	na	na	
.01156		↓	↓	↓	↓	↓	↓	↓	
.01157									
.01158									
.01159									
.01160									
.01161		↓	↓	↓	↓	↓	↓	↓	

Sampling Method: 24FC=24 Hour Flow-Weighted Composite; 24TC=24 Hour Time-Weighted Composite; G=Grab; B=Bail; D=Drill; C=Core; P=Pump; O=Other (Please Specify)

Sample Type: E=Effluent; SL=Sludge: SO=Soil; SC-Soil Core; WW-Well Water; SW=Surface Water; O=Other

Preservative: F=Filtered; NF=Non-Filtered; NA=Non Acidified; A-H_2SO_4(2 ml/l); A-HNO_3(5 ml/l); A-HNO_3(5 ml/l); A H_3PO_4 & $CuSO_4$; A-Other; I=Iced; P-NaOH.

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SUPPLEMENTAL REQUESTOR DATA SHEET # _____

Sample Number	Sampling Location	Sampling Method	Sample Type*	Remarks**
88.01162	21-61	grab	soil	
88.01163				
.01164				
.01165				
.01166				low PCB's expected
.01167				low PCB's expected
.01168				no PCB's expected
.01169				no PCB expected
.01170			asphalt	
.01171				
.01172				
.01173				
.01174				
.01175				
.01176				
.01177				
.01178				
.01179				
.01180				
.01181				
.01182				
.01183			soil	
.01184				
.01185				

* Indicate whether sample is soil, sludge, water, etc.

** Note preservation.

NP: No preservation; sample stored at room temperature.

P-Ice Sample stored in ice (not frozen).

P-$Na_2S_2O_3$: Sample preserved in $Na_2S_2O_3$ to remove chlorine residual.

REQUEST SHEET # 7132
PCB SOILS

Results

SAMPLE #	COMPOUND	CAS #	ANALYTICAL RESULT UG/G	ANALYTICAL UNCERTANITY UG/G	RECOVERY CORRECTED RESULT UG/G	Results
88.01155	1260	11096825	41.10	10.28	62.30 +	80.88
88.01155	1254	11097691	23.60	5.90	35.80 -	48.52
88.01155 TOTAL PCB			64.7			
88.01156	1254	11097691	4.40	1.10	6.70	13.63
88.01156	1260	11096825	6.50	1.63	9.90	5.70
88.01156 TOTAL PCB			10.90			
88.01157	1260	11096825	43.40	10.85	65.70	114.13
88.01157	1254	11097691	47.90	11.98	72.60	68.47
88.01157 TOTAL PCB			91.30			
88.01158	1260	11096825	1.00	0.25	1.50	2.13
88.01158	1254	11097691	0.70	0.18	1.00	1.27
88.01158 TOTAL PCB			1.70			
88.01159	1254	11097691	2.93	0.73	4.40	7.66
88.01159	1260	11096825	3.20	0.80	4.80	4.60
88.01159 TOTAL PCB			6.13			
88.01160	1260	11096825	55.00	13.75	83.40	175.25
88.01160	1254	11097691	85.20	21.30	129.00	105.15
88.01160 TOTAL PCB			140.20			
88.01161	1254	11097691	6.70	1.68	10.10	17.63
88.01161	1260	11096825	7.40	1.85	11.20	10.57
88.01161 TOTAL PCB			14.10			
88.01162	1260	11096825	11.60	2.90	17.60	33.13
88.01162	1254	11097691	14.90	3.73	22.50	19.87
88.01162 TOTAL PCB			26.50			
88.01163	1254	11097691	20.30	5.08	30.80	44.51
88.01163	1260	11096825	15.30	3.83	23.20	26.69
88.01163 TOTAL PCB			35.60			
88.01164	1260	11096825	11.30	2.83	17.10	39.38
88.01164	1254	11097691	20.20	5.05	30.60	23.62
88.01164 TOTAL PCB			31.50			
88.01165	1254	11097691	0.34	0.09	0.50	1.47
88.01165	1260	11096825	0.83	0.21	1.25	0.87
88.01165 TOTAL PCB			1.17			

8/8/88

SAMPLE #	COMPOUND	CAS #	ANALYTICAL RESULT UG/G	ANALYTICAL UNCERTANITY UG/G	RECOVERY CORRECTED RESULT UG/G	
88.01166	1254	11097691	1.40	0.35	2.10	4.80
88.01166	1242	53469219	0.84	0.21	1.30	2.88
88.01166	1260	11096825	1.60	0.40	2.40	
88.01166 TOTAL PCB			3.84			
88.01167	1260	11096825	0.40	0.10	0.60	0.75
88.01167	1254	11097691	0.20	0.05	0.31	0.45
88.01167 TOTAL PCB			0.60			
88.01168		1336363	<MDL			<MDL
88.01169	1260	11096825	0.50	0.13	0.70	0.92
88.01169	1254	11097691	0.23	0.06	0.35	0.54
88.01169 TOTAL PCB			0.73			
88.01170	1254	11097691	364.00	91.00	550.00	455.0 273.0
88.01171	1254	11097691	1.53	0.38	2.30	7.10
88.01171	1242	53469219	0.95	0.24	1.40	
88.01171	1260	11096825	3.20	0.80	4.80	4.26
88.01171 TOTAL PCB			5.68			
88.01172	1254	11097691	1.61	0.40	2.40	2.01 1.21
88.01173	1260	11096825	6.36	1.59	9.60	11.44
88.01173	1242	53469219	0.69	0.17	1.04	
88.01173	1254	11097691	2.10	0.53	3.10	6.86
88.01173 TOTAL PCB			9.15			
88.01174	1254	11097691	95.50	23.88	145.00	119.38 71.62
88.01175	1260	11096825	1260.00	315.00	1900.00	1575.0 945.0
88.01176	1260	11096825	94700.00	23675.00	143500.00	118375.0 71025.0
88.01177	1254	11097691	433.00	108.25	656.00	541.25 324.75
88.01178	1242	53469219	11.60	2.90	17.60	96.75
88.01178	1254	11097691	20.20	5.05	30.60	
88.01178	1260	11096825	45.20	11.30	68.50	57.75
88.01178 TOTAL PCB			77.00			
88.01179	1254	11097691	351.00	87.75	532.00	438.75 263.25
88.01180	1254	11097691	14000.00	3500.00	21600.00	17500.0 10500.0
88.01181	1242	53469219	23.80	5.95	36.00	
88.01181	1254	11097691	37.20	9.30	56.40	158.63
88.01181	1260	11096825	65.90	16.48	99.80	95.17
88.01181 TOTAL PCB			126.90			

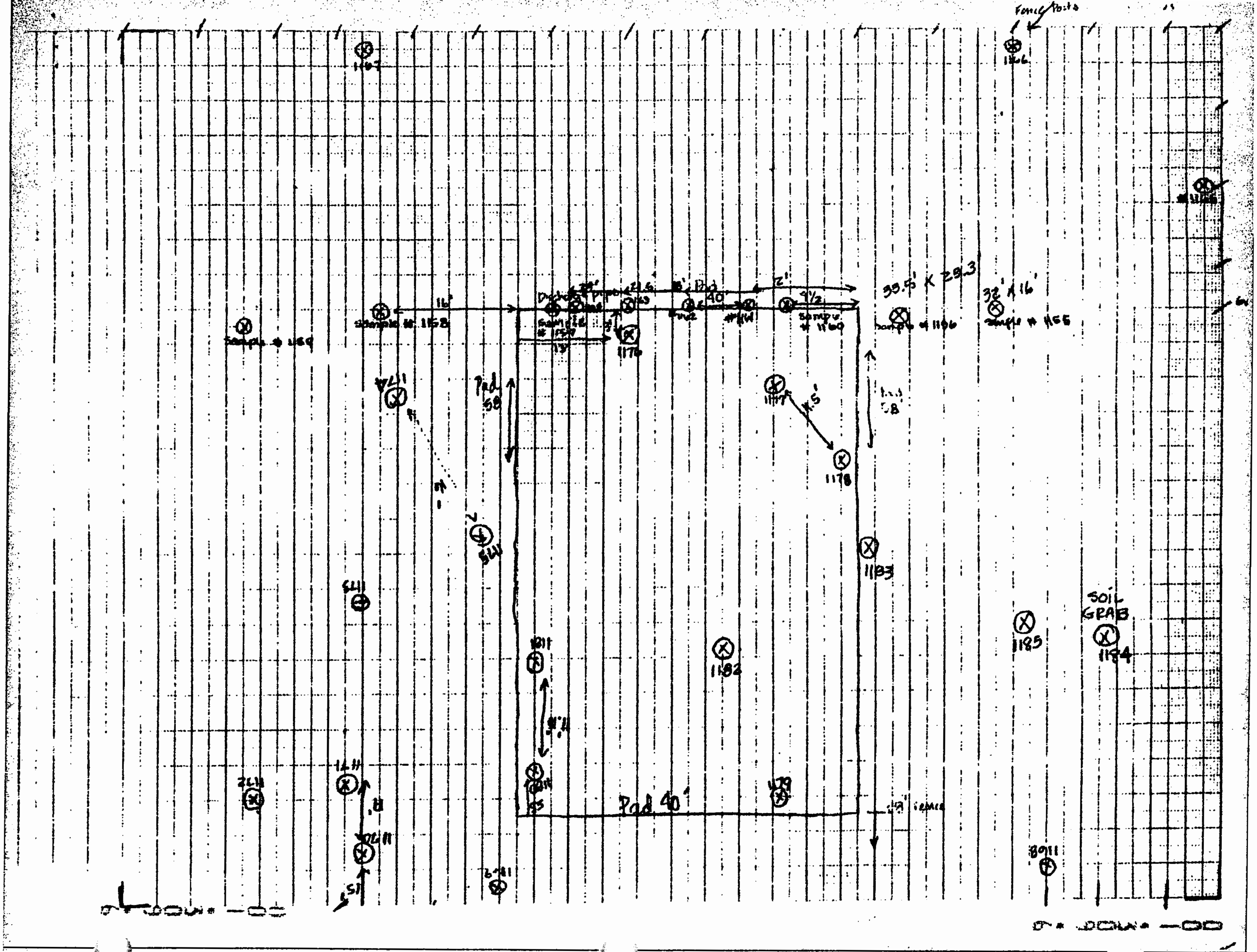
SAMPLE #	COMPOUND	CAS #	ANALYTICAL RESULT UG/G	ANALYTICAL UNCERTANITY UG/G	RECOVERY CORRECTED RESULT UG/G		
88.01182	1254	11097691	4800.00	1200.00	7300.00	36250.0	
88.01182	1242	53469219	24200.00	6050.00	36700.00	21750.0	
88.01182 TOTAL PCB			29000.00				
88.01183	1254	11097691	6.00	1.50	9.10	15.25	
88.01183	1260	11096825	6.20	1.55	9.40	9.15	
88.01183 TOTAL PCB			12.20				
88.01184	1260	11096825	172.50	43.13	261.40	278.38	
88.01184	1254	11097691	50.20	12.55	76.10	167.02	
88.01184 TOTAL PCB			222.70				
88.01185	1260	11096825	36.60	9.15	55.50	80.88	
88.01185	1254	11097691	28.10	7.03	42.50	48.52	
88.01185 TOTAL PCB			64.70				
						add	% Rec
00.98634	1242	53469219	15.24	3.81	23.10	19	122
00.98635	1242	53469219	29.06	7.27	44.00	41	7
00.98636	1242	53469219	14.23	3.56	21.60	19	114
SPIKE 30	1242	53469219	12.19	3.05	ADDED 17.8		
SPIKE 40	1242	53469219	14.46	3.62	ADDED 24.6		
SPIKE 50	1242	53469219	18.50	4.63	ADDED 29.2		

THE MATRICES ON THESE SAMPLES WERE SURPRISINGLY CLEAN.
THE RECOVERY CORRECTED RESULT WAS DERIVED FROM THE MATRIX SPIKE RECOVERY WHICH AVERAGED 66% (SPIKE 40 WAS DISCARDED BECAUSE OF OVERFILLING ON THE VOLUMETRIC). THIS RECOVERY IS IN LINE WITH PAST RECOVERIES.

MINIMUM DETECTION LIMIT WAS 0.1UG/G.

I RECCOMMEND THAT PRIOR TO ANOTHER MAJOR SAMPLING SPREE ONE OF THE MORE HIGHLY CONCENTRATED AREAS BE SAMPLED AT VARIOUS DEPTHS (USING A BACKHOE POSSIBLY) TO DETERMINE THE AMOUNT OF LEACHING THROUGH THE AREA.

DEE SEITZ, ANALYST Dee Seitz
AUGUST 8, 1988
NOTEBOOK A6011 (BOOK17) PAGE 57
SECTION LEADER SUZANNE BELL Suzanne Bell 8/8/88
QC COORDINATOR PEGGY GAUTIER Peggy Gautier 8/8/88


Fence Posts
1166
Sample # 1155
32' X 16'
35.5' X 29.3
Sample # 1156
Sample # 1158
16'
Sample # 1159
Sample # 1157
Sample # 1160
Pad 40
Pad 58
1176
1178
1183
1182
1185
SOIL GRAB
1184
1168
1173
1174
1171
1172
1181
Pad 40'