

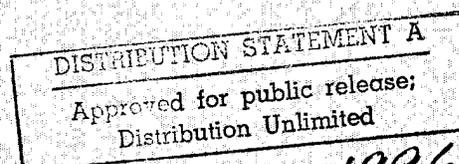
**United States Air Force
611 Air Support Group
611 Civil Engineer Squadron**

Elmendorf AFB, Alaska

**FINAL
Indian Mountain LRRS, Alaska**

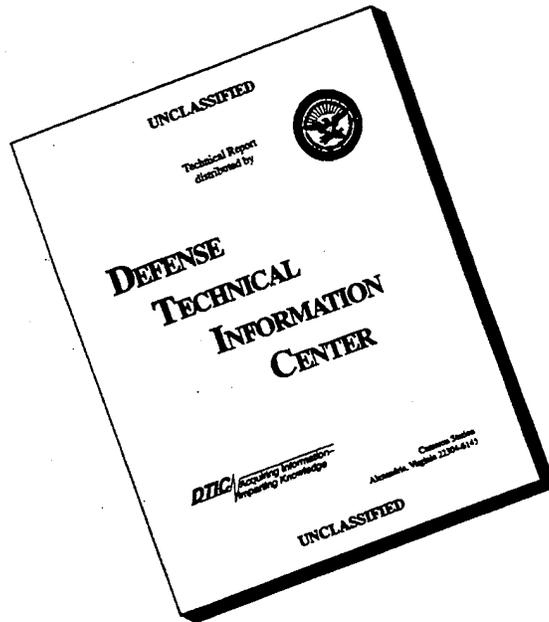
**ADDENDUM TO
REMEDIAL INVESTIGATION/
FEASIBILITY STUDY REPORT
(OCTOBER 1995)**

JANUARY 1996



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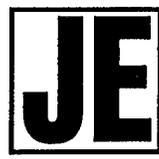
FINAL

Indian Mountain LRRS, Alaska

ADDENDUM TO
REMEDIAL INVESTIGATION/
FEASIBILITY STUDY REPORT
(OCTOBER 1995)

JANUARY 1996

By:



JACOBS ENGINEERING GROUP INC.

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Denver, CO 80202

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PREFACE

This Remedial Investigation/Feasibility Study (RI/FS) Addendum describes several tasks completed in 1995 at Indian Mountain Long Range Radar Station, Alaska. Additional site characterization sampling activities and results are presented in this report. These results are evaluated and RI/FS recommendations and conclusions are revised, when appropriate. This work is performed in accordance with the requirements of Contract No. F41624-94-D-8046, Delivery Order No. 0004, between the U.S. Air Force and Jacobs Engineering Group Inc.

The Jacobs Engineering Group Inc. Project Manager for this delivery order is Ms. Sarah Brown. Mr. Samer Karmi of the Air Force Center for Environmental Excellence is the Alaska Restoration Team Chief for this task.

Approved:



Warner K. Reeser
Program Manager
Jacobs Engineering Group Inc.

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LIST OF ACRONYMS AND ABBREVIATIONS

AAC	Alaska Administrative Code
ADD	applied daily dose
ADEC	Alaska Department of Environmental Conservation
ARAR	applicable or relevant and appropriate requirement
AWQC	ambient water quality criteria
BTEX	benzene, toluene, ethylbenzene, and xylene
cm ²	square centimeter
COPC	contaminant of potential concern
DRO	diesel range organic compounds
DTIC	Defense Technical Information Center
EPA	U.S. Environmental Protection Agency
GRO	gasoline range organic compounds
IRA	interim remedial action
IRP	Installation Restoration Program
LRRS	Long Range Radar Station
mg/kg	milligrams per kilogram
MOGAS	motor vehicle gasoline
NTIS	National Technical Information Service
PCBs	polychlorinated biphenyls
PCP	pentachlorophenol
POL	petroleum, oil, and lubricants
ppm	parts per million
PRG	preliminary remediation goal
PVC	polyvinyl chloride
RI/FS	remedial investigation/feasibility study
SAP	sampling and analysis plan
SVE	soil vapor extraction
SVOC	semivolatile organic compounds
TAH	total aromatic hydrocarbons
TAqH	total aqueous hydrocarbons

LIST OF ACRONYMS AND ABBREVIATIONS

TRV	toxicity reference value
TSCA	Toxic Substances Control Act
VOC	volatile organic compounds
WACS	White Alice Communications Systems
µg/L	micrograms per liter

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1.0 INTRODUCTION

The following report is an addendum to the Indian Mountain Long Range Radar Station (LRRS) Remedial Investigation/Feasibility Study (RI/FS) report dated October 1995 (Air Force 1995a). This report and the activities described were undertaken to fulfill the goals and objectives of the Air Force Installation Restoration Program (IRP). This report includes findings from additional characterization activities conducted in August 1995 at five of 11 Indian Mountain IRP source areas and revisions to RI/FS report conclusions for those source areas.

2.0 ADDITIONAL CHARACTERIZATION OF IRP SOURCE AREAS

Additional characterization activities were performed at IRP source areas SS02, OT08, SS09, SS10, and SS11 during the 1995 site visit. The objectives for source area sampling depend on the specific site, but the primary objectives were to further determine and define contaminant extent and to collect additional data for risk evaluation. A discussion of the objectives, field activities conducted, and sampling results are included, by source area, in the following sections. The work described in this addendum was originally proposed in the Work Plan and Sampling and Analysis Plan (SAP) for Interim Remedial Actions (Air Force 1995b). The 1995 analytical results were compared to applicable and relevant or appropriate requirements (ARARs) and preliminary remediation goals (PRGs) to evaluate human health and ecological risk. A brief discussion of potential exposure to contaminants above risk-based levels is provided in this addendum where appropriate. The Final RI/FS report (Air Force 1995a) contains a list of all potential ARARs and a description of the human health and ecological risk evaluations completed for Indian Mountain source areas. Tables summarizing all 1995 laboratory results are included in Appendices A through E. Copies of sampling forms are also included in the appendices. Appendix F contains copies of field logs for the August 1995 site visit.

2.1 SOURCE AREA SS02

Contamination from the former drum storage area was detected in subsurface soil samples collected in 1994. In particular, the soils contained volatile organic compounds (VOCs) above risk-based levels. Surface soil was not sampled in 1994 but surface soil data are required to perform human health and ecological risk evaluations.

2.1.1 Source Area Sampling

Surface soil samples were collected at SS02 during the 1995 investigation. Four surface soil samples were collected and analyzed for VOCs, semivolatile organic compounds (SVOCs), gasoline range organic compounds (GRO), and diesel range organic compounds (DRO). Locations were based on subsurface contamination detected in 1994 soil gas measurements and soil samples. The 1995 results are summarized in Table 2.1-1. A table containing all 1995 results from SS02 is included in Appendix A. Sample locations and results from 1995 investigations are shown in Figure 2.1-1.

2.1.2 Data Evaluation

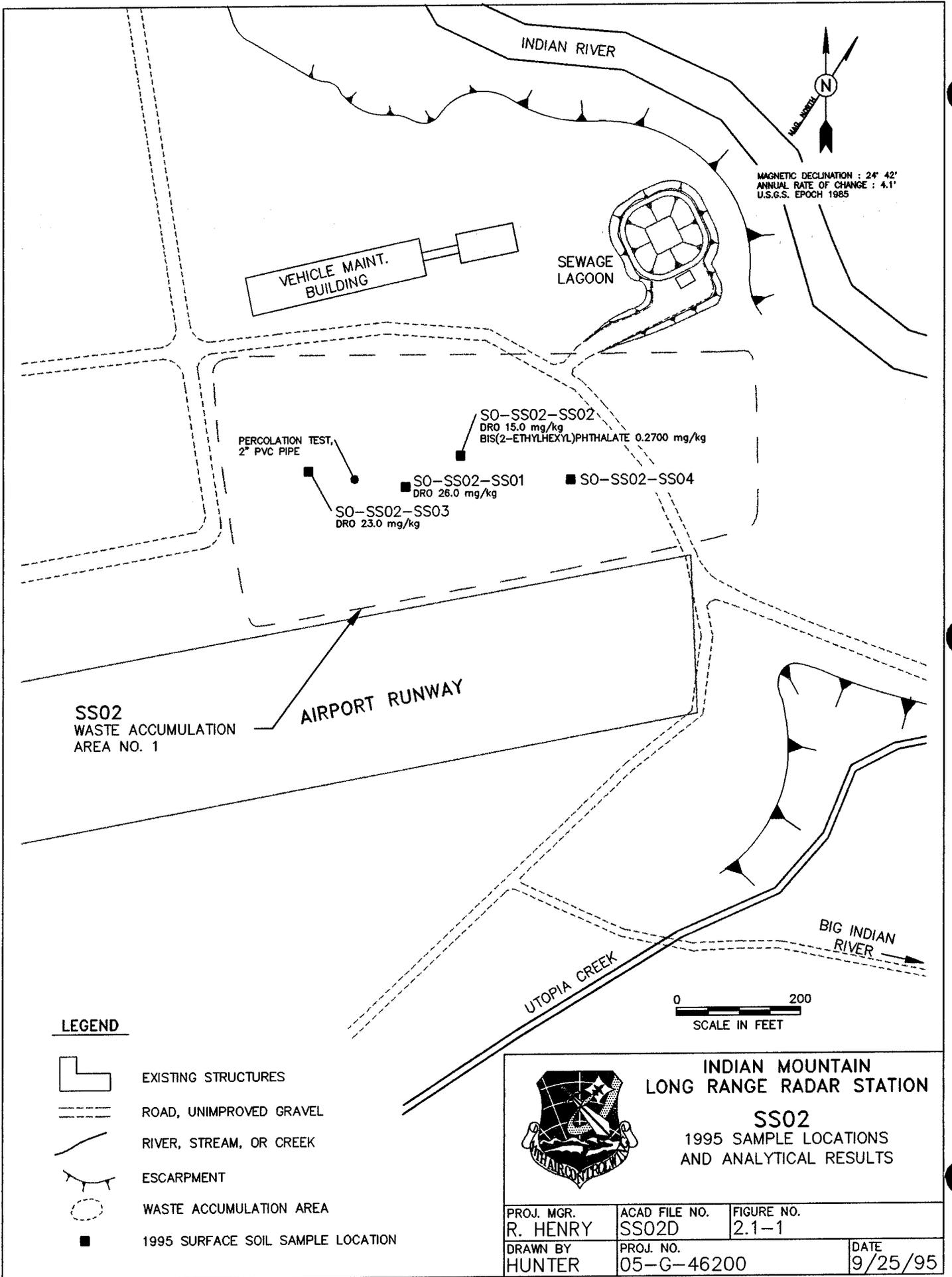
Limited contamination was detected in the source area SS02 surface soil samples. Three samples contained low concentrations of DRO (15 to 26 mg/kg), and no contaminants were detected in the fourth sample. These DRO concentrations are below the minimum levels established in the Alaska Department of Environmental Conservation (ADEC) *Interim Guidance for Non-UST Contaminated Soil Cleanup Levels* (ADEC 1991). One sample contained a low, estimated level of bis(2-ethylhexyl) phthalate, a suspected laboratory contaminant.

TABLE 2.1-1
Positive Laboratory Results
Source Area SS02
Indian Mountain Long Range Radar Station

Matrix	Sample Identification	Test Method	Analyte	Value	Units	Detection Limit	Lab Qualifier	Ecological Risk
SS	SO-SS02-SS01	AK102	DIESEL RANGE ORGANICS	26.00	MG/KG	0.9000		
SS	SO-SS02-SS02	SW8270	bis(2-ETHYLHEXYL) PHTHALATE	0.27	MG/KG	0.1000	J	NOI
SS	SO-SS02-SS02	AK102	DIESEL RANGE ORGANICS	15.00	MG/KG	0.9000		
SS	SO-SS02-SS03	AK102	DIESEL RANGE ORGANICS	23.00	MG/KG	0.9000		

Notes:

- J = estimated
- MG/KG = milligrams per kilogram
- NOI = laboratory contaminant
- SS = surface soil



2.1.3 Conclusions

Because the surface soil results presented above do not suggest that human health risk exists for personnel working in the area, no further action is recommended for source area SS02. It is recommended no further action be taken at SS02 and that a no further response decision document be prepared for the source area.

2.2 SOURCE AREA OT08

Polychlorinated biphenyls (PCBs) were measured above Toxic Substances Control Act (TSCA) levels in surface and shallow subsurface soil samples collected at OT08 in 1994. A preliminary estimate of the PCB-contaminated area was determined based on the 1994 results. Additional sampling, especially at depth, was considered necessary to further define PCB contamination extent and to better estimate the volume of soils containing PCBs above the TSCA levels.

2.2.1 Source Area Sampling

Eleven test pits were excavated using a backhoe and sampled at 2.5- and 5.0-foot depths. A surface (0.0- to 0.5-foot depth) soil sample was also collected at each test pit. Samples collected from the first five pits were analyzed using Ensysis PCB (Aroclor 1260) immunoassay test kits (EPA Method 4020). These results are listed in Table 2.2-1. Three of the pits were excavated at 1994 sampling locations where PCBs were detected in surface soils at high concentrations. These locations are OT08-SB01, OT08-SB02, and OT08-SS05. The fourth and fifth pits were designated OT08-TK01 and OT08-TK02. All test pit locations are shown in Figure 2.2-1. A combination of test kit analyses and laboratory analyses (EPA Method 8270) were used to evaluate samples collected from the remaining test pits. These six locations are designated OT08-SS08 through OT08-SS13. In general, samples were collected from three depths within each pit: surface (0.5-1.0 feet), 2.5-3.0 feet, and 4.5-5.0 feet. The

laboratory sample numbers begin with the prefix "SO-." Surface soil samples are designated with "SS-" preceding the number (e.g., SO-OT08-SS12), and subsurface samples are designated with "SB-" (e.g., SO-OT08-SB05). The test kit results are included in Table 2.2-1 and the laboratory results are summarized in Table 2.2-2. A summary table of all OT08 laboratory results is included in Appendix B.

To provide additional information regarding site soil characteristics, three samples were collected from OT08 for geotechnical characterization. Geotechnical data were collected to assess remedial alternatives amenable to site soil conditions. Analyses performed included soil classification, bulk density, permeability, cation-exchange capacity, particle size analysis and distribution, percent moisture, and organic content.

TABLE 2.2-1
OT08 PCB Test Kit Results
 (Detection Limits 1, 10, and 40 parts per million)

Location	Surface (0.5 - 1.0 feet)	2.5 - 3.0 feet	4.5 - 5.0 feet
SS05	> 40	> 1, < 10	NA
SB01	>10, < 40	> 40	ND
SB02	> 40	> 40	> 40
TK01	> 10, < 40	ND	NA
TK02	ND	ND	NA
SS08	ND *	ND	NA
SS09/SB03	> 1, < 10	ND	NA *
SS10/SB04	ND *	ND *	ND
SS11/SB05	> 1, < 10	ND *	NA
SS12	ND *	**	**
SS13/SB06	ND *	ND *	NA

Notes:

NA = not analyzed
 ND = not detected at 1 part per million

* = laboratory sample also collected
 ** = not collected

The results from these analyses are summarized in Table 2.2-2. The geotechnical results are included in Appendix B. The sample locations are shown in Figure 2.2-1. Copies of all OT08 field sampling forms, which include a description of subsurface materials, are also included in Appendix B.

As observed during test pit excavation, subsurface material consists of disturbed soil and rocks or fill from demolition of the former White Alice Communications Systems (WACS) facility. Subsurface material ranged from silt to boulders in size. Water was encountered at various depths within the pits. In general, the depth to water varied from water flowing across the ground surface to a depth of 2.5 feet below ground surface. Water was not encountered in all pits. In several of the pits, an obvious impermeable layer controlled the depth of water flow. Fractured bedrock and permafrost, which are thought to control groundwater flow, were encountered in several of the westernmost test pits. Clay layers observed in some of the excavations also control water flow.

The construction of a diversion ditch as an interim remedial action (IRA) for source area SS10 will serve to dewater source area OT08 and alter the presence of groundwater observed during test pit and ditch excavation. Details of this action are documented in the Construction Report for Interim Remedial Action and Treatability Study (Air Force 1995c).

2.2.2 Data Evaluation

PCBs were not detected above risk levels in source area OT08 soil samples analyzed by the laboratory. The laboratory analytical results and the test kit analyses correlate well in that analytes in all samples that underwent both analyses were not detected by either method. Laboratory detections of PCBs were below 1 part per million (ppm).

TABLE 2.2-2
Positive Laboratory Results
Source Area OT08
Indian Mountain Long Range Radar Station

Matrix	Sample Identification	Test Method	Sample Depth (ft)	Analyte	Value	Units	Detection Limit	Lab Qualifier
SO	SO-OT08-SB05	SW8080	2.50	PCB-1260 (AROCLOR 1260) ¹	0.04	MG/KG	0.0080	J
SO	SO-OT08-SB05	SW8080	2.50	PCB-1260 (AROCLOR 1260) ²	0.04	MG/KG	0.0080	J
SO	SO-OT08-SB05	SW8080	2.50	PCB-1260 (AROCLOR 1260) ²	0.04	MG/KG	0.0080	J
SO	SO-OT08-SS08	SW8080	0.50	PCB-1260 (AROCLOR 1260) ²	0.09	MG/KG	0.0090	J
SO	SO-OT08-SS08	SW8080	0.50	PCB-1260 (AROCLOR 1260) ¹	0.10	MG/KG	0.0090	J
SO	SO-OT08-SS08	SW8080	0.50	PCB-1260 (AROCLOR 1260) ²	0.10	MG/KG	0.0090	J
SO	SO-OT08-SS12	SW8080	0.50	PCB-1260 (AROCLOR 1260) ¹	0.20	MG/KG	0.0090	J
SO	SO-OT08-SS12	SW8080	0.50	PCB-1260 (AROCLOR 1260) ²	0.19	MG/KG	0.0090	J
SO	SO-OT08-SS12	SW8080	0.50	PCB-1260 (AROCLOR 1260) ²	0.20	MG/KG	0.0090	J
SS	SO-OT08-SB12	SW9081	0.50	CATION-EXCHANGE CAPACITY	32.00	MEQ/100G	5.0000	
SS	SO-OT08-SB12	SWD422	0.50	CLAY PERCENT	4.00	%		
SO	SO-OT08-SB12	D2216	0.50	PERCENT MOISTURE	7.70	%	0.0000	
SS	SO-OT08-SB12	SWD5084	0.50	PERMEABILITY	3.4E-06	CM/SEC		
SS	SO-OT08-SB12	SWD422	0.50	SAND PERCENT	9.00	%		
SS	SO-OT08-SB12	SWD422	0.50	SILT PERCENT	13.00	%		
SO	SO-OT08-SB12	D2487	0.50	SOIL CLASSIFICATION	BSG	N/A	N/A	
SO	SO-OT08-SB12	D854	0.50	SPECIFIC GRAVITY	2.75	MG/KG	0.0000	
SS	SO-OT08-SB12	SW9060	0.50	TOTAL ORGANIC CARBON	480.00	MG/KG	22.0000	
SS	SO-OT08-SB12	SW9060	0.50	TOTAL ORGANIC CARBON	600.00	MG/KG	22.0000	
SS	SO-OT08-SB12	SW9060	0.50	TOTAL ORGANIC CARBON	440.00	MG/KG	22.0000	
SS	SO-OT08-SB12	SW9060	0.50	TOTAL ORGANIC CARBON	430.00	MG/KG	22.0000	
SS	SO-OT08-SB12	SW9060	0.50	TOTAL ORGANIC CARBON	440.00	MG/KG	22.0000	
SS	SO-OT08-SB13	SW9081	0.50	CATION-EXCHANGE CAPACITY	30.00	MEQ/100G	5.0000	
SS	SO-OT08-SB13	SWD422	0.50	CLAY PERCENT	4.00	%		
SO	SO-OT08-SB13	D2216	0.50	PERCENT MOISTURE	26.00	%	0.0000	
SS	SO-OT08-SB13	SWD5084	0.50	PERMEABILITY	7.3E-07	CM/SEC		
SS	SO-OT08-SB13	SWD422	0.50	SAND PERCENT	11.00	%		
SS	SO-OT08-SB13	SWD422	0.50	SILT PERCENT	14.00	%		
SO	SO-OT08-SB13	D2487	0.50	SOIL CLASSIFICATION	BSG/S	N/A	N/A	

TABLE 2.2-2
Positive Laboratory Results
Source Area OT08
Indian Mountain Long Range Radar Station

Matrix	Sample Identification	Test Method	Sample Depth (ft)	Analyte	Value	Units	Detection Limit	Lab Qualifier
SO	SO-OT08-SB13	D854	0.50	SPECIFIC GRAVITY	2.72	MG/KG	0.0000	
SS	SO-OT08-SB13	SW9060	0.50	TOTAL ORGANIC CARBON	500.00	MG/KG	27.0000	
SS	SO-OT08-SB13	SW9060	0.50	TOTAL ORGANIC CARBON	500.00	MG/KG	27.0000	
SS	SO-OT08-SB13	SW9060	0.50	TOTAL ORGANIC CARBON	490.00	MG/KG	27.0000	
SS	SO-OT08-SB13	SW9060	0.50	TOTAL ORGANIC CARBON	510.00	MG/KG	27.0000	
SS	SO-OT08-SB13	SW9060	0.50	TOTAL ORGANIC CARBON	510.00	MG/KG	27.0000	
SS	SO-OT08-SB14	SW9081	0.50	CATION-EXCHANGE CAPACITY	35.00	MEQ/100G	5.0000	
SS	SO-OT08-SB14	SWD422	0.50	CLAY PERCENT	5.00	%		
SO	SO-OT08-SB14	D2216	0.50	PERCENT MOISTURE	16.00	%	0.0000	
SS	SO-OT08-SB14	SWD5084	0.50	PERMEABILITY	NA	CM/SEC		
SS	SO-OT08-SB14	SWD422	0.50	SAND PERCENT	15.00	%		
SS	SO-OT08-SB14	SWD422	0.50	SILT PERCENT	31.00	%		
SO	SO-OT08-SB14	D2487	0.50	SOIL CLASSIFICATION	BSS/G	N/A	N/A	
SO	SO-OT08-SB14	D854	0.50	SPECIFIC GRAVITY	2.70	MG/KG	0.0000	
SS	SO-OT08-SB14	SW9060	0.50	TOTAL ORGANIC CARBON	450.00	MG/KG	10.0000	
SS	SO-OT08-SB14	SW9060	0.50	TOTAL ORGANIC CARBON	500.00	MG/KG	10.0000	
SS	SO-OT08-SB14	SW9060	0.50	TOTAL ORGANIC CARBON	450.00	MG/KG	10.0000	
SS	SO-OT08-SB14	SW9060	0.50	TOTAL ORGANIC CARBON	430.00	MG/KG	10.0000	
SS	SO-OT08-SB14	SW9060	0.50	TOTAL ORGANIC CARBON	420.00	MG/KG	10.0000	

Notes:

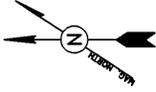
- BSG = brown silty gravel
- BSG/S = brown silty gravel with sand
- BSS/G = brown silty sand with gravel
- CM/SEC = centimeters per second
- E = exponent
- ft = feet
- J = estimated
- MEQ/100G = milliequivalent weights
- MG/KG = milligrams per kilogram
- SO = subsurface soil (in Matrix column)
- SS = surface soil
- U = undetected (analyzed but not detected)
- % = percent
- 1 = primary confirmation analysis (P1)
- 2 = confirmation analysis 1 or 2 (C1 or C2)

Test kit detection limits included 1, 10, and 40 ppm. According to test kit analyses, the three 1994 areas that were resampled are contaminated with PCBs above 40 ppm, which agrees with the 1994 results. At location SB02, where a concentration of 760 ppm PCBs was measured in near surface soils in 1994, detections greater than 40 ppm were measured in soils from each of the three depths sampled (surface, 2.5 to 3.0 feet, and 4.5 to 5.0 feet). Figure 2.2-2 shows all locations where PCBs were detected at concentrations greater than 40 ppm.

The geotechnical results support the evaluation of potential alternatives presented in Section 10.0 of the Final RI/FS report (Air Force 1995a). The geotechnical laboratory results for soil samples collected from OT08 can also be used for future remedial design activities. The permeability results, when adjusted to represent intrinsic values, ranged from 8.5×10^{-12} to 3.9×10^{-11} square centimeters (cm^2). The permeability results verify the elimination of soil vapor extraction (SVE) as a potential physical treatment process. SVE is generally not effective for soil with permeabilities less than 10^{-6} cm^2 (Danko 1991). The particle size analysis results from the geotechnical laboratory indicate that the combined clay and silt content at source area OT08 ranges from 17 to 36 percent (Table 2.2-2). This amount of fines would affect the technical implementability of soil washing at OT08. This information supports eliminating soil washing as a physical treatment process in Section 10.0 of the RI/FS.

2.2.3 Conclusions

The additional PCB results confirm the estimated volume of soils contaminated above risk-based levels (10 ppm) included in the Final RI/FS report (Air Force 1995a). The estimated volume is 1,500 cubic yards.



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LEGEND

SS03 — LAB SAMPLES AND RESULTS
PCB > 1, < 40 ppm — PCB TEST KIT SAMPLE LOCATION AND RESULTS

REFER TO TABLE 2.2-2 FOR GEOTECHNICAL RESULTS AND PCB RESULTS FOR SPECIFIC DEPTHS



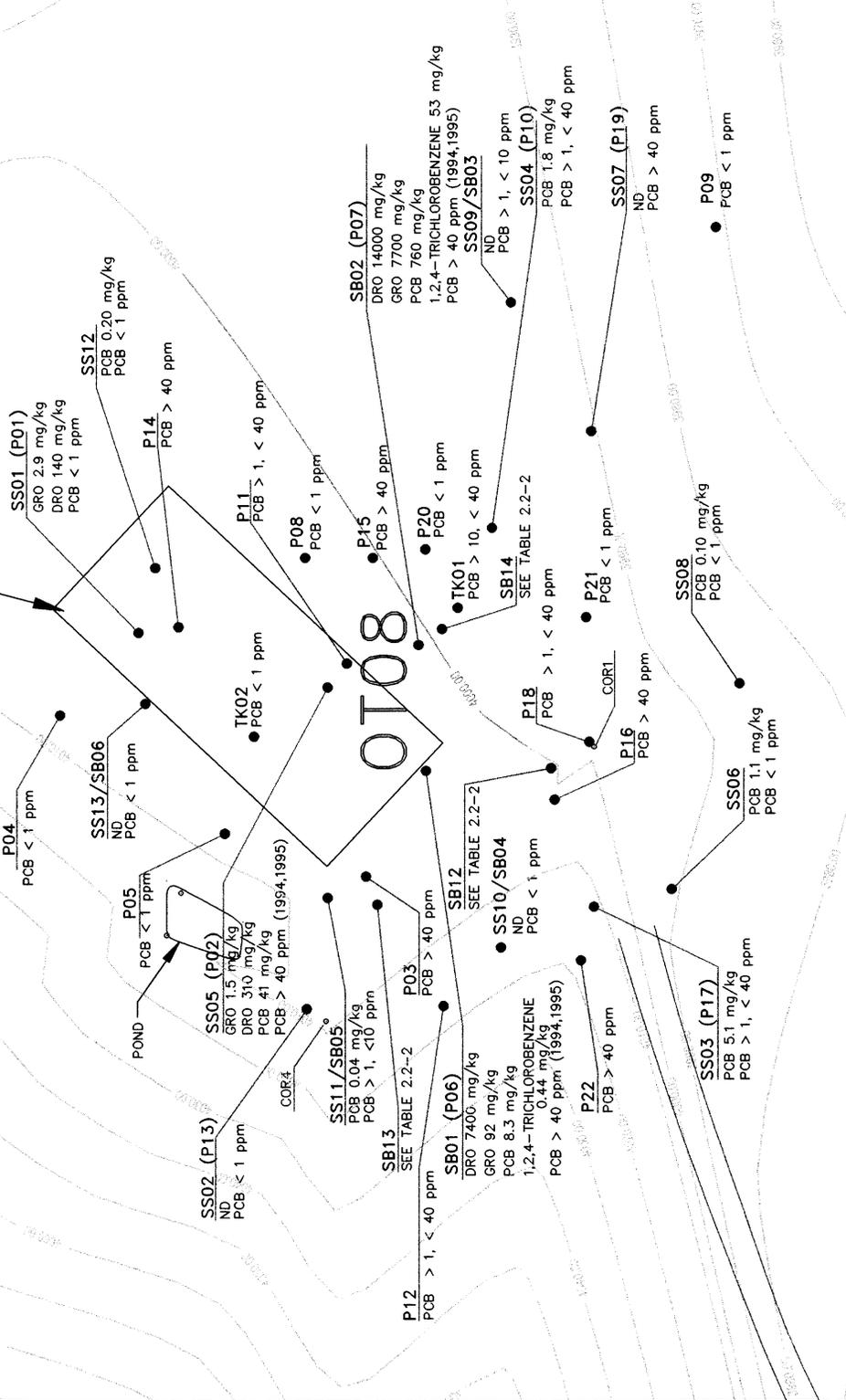
**INDIAN MOUNTAIN
LONG RANGE RADAR STATION**

OT08
LABORATORY AND FIELD
SCREENING LOCATIONS
AND RESULTS

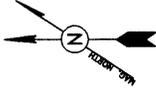
PROJ. MGR. R. HENRY	ACAD. FILE NO. 42-1	FIGURE NO. 2.2-1
DRAWN BY HUNTER	PROJ. NO. 05-G-46200	DATE 6/9/95

FORMER LOCATION
OF WACS BUILDING

OT08



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MAGNETIC DECLINATION : 24° 42'
ANNUAL RATE OF CHANGE : 4.1'
U.S.G.S. EPOCH 1985

LEGEND

SS03 — LAB SAMPLES AND RESULTS
PCB 5.1 mg/kg
PCB > 1, < 40 ppm
PCB TEST KIT SAMPLE LOCATION AND RESULTS

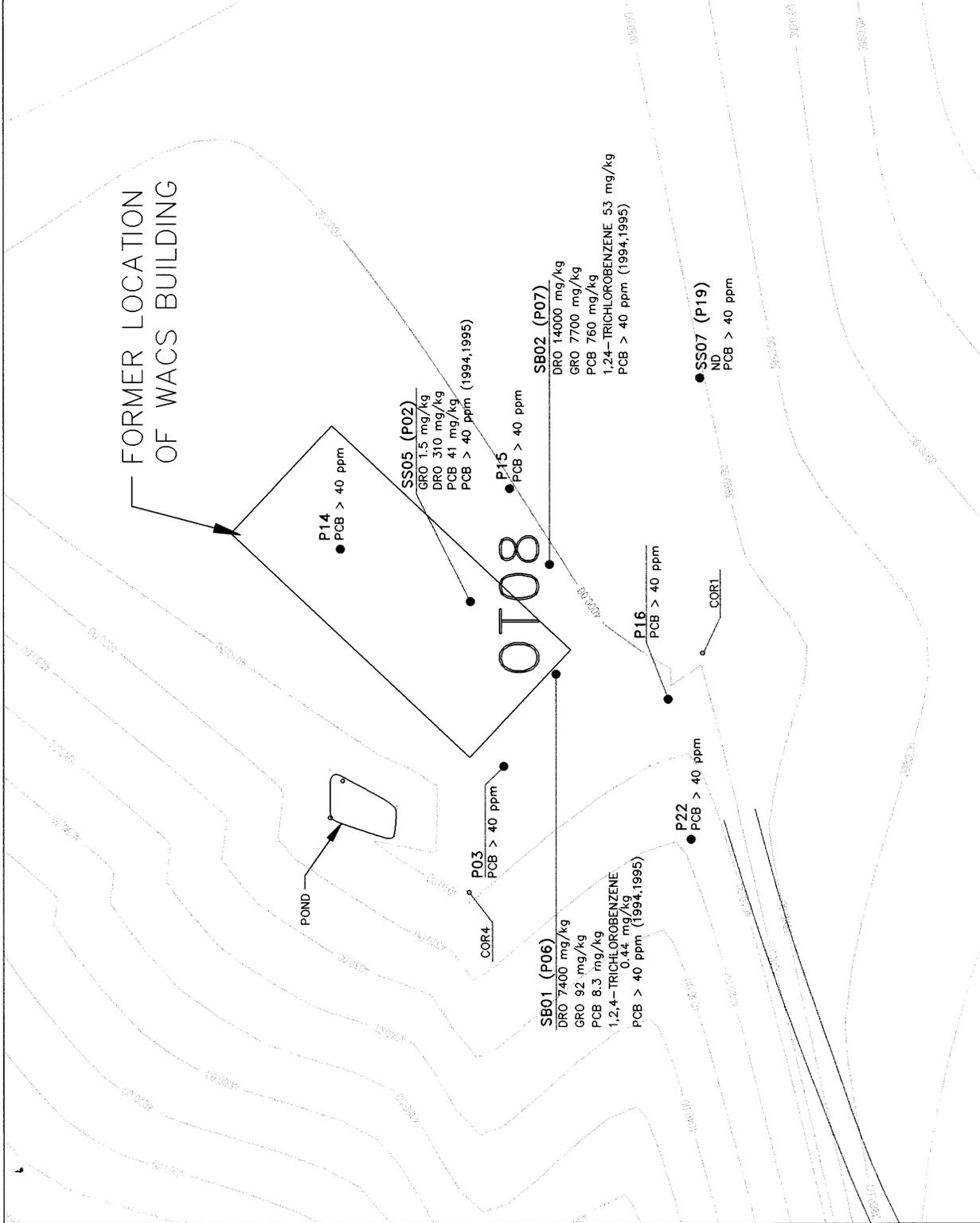
REFER TO TABLE 2.2-2 FOR GEOTECHNICAL RESULTS AND PCB RESULTS FOR SPECIFIC DEPTHS



INDIAN MOUNTAIN
LONG RANGE RADAR STATION
OT08
PCB DETECTIONS
GREATER THAN 40 PPM



PROJ. MGR. R. HENRY	ACAD. FILE NO. 22-2	FIGURE NO. 2.2-2
DRAWN BY HUNTER	PROJ. NO. 05-G-46200	DATE 10/18/95



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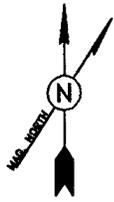
Thermal desorption with dechlorination was the remedial alternative recommended in the Final RI/FS for OT08 (Air Force 1995a). After review of the 1995 sampling results, this method remains the preferred alternative. Alternatives may be reevaluated before remedial action is undertaken so that technological advances may be considered. Institutional controls will be established and warning signs constructed to prevent excavation in the area until a final remedial alternative decision is made.

2.3 SOURCE AREA SS09

Source area SS09 is the former location of motor vehicle gasoline (MOGAS) fuel tanks and documented fuel releases. Four monitoring wells were installed and sampled at source area SS09 in 1994. Because VOC, SVOC, GRO, and DRO contaminants were detected in the wells, and because the wells are directly across the Indian River from the station water supply well, additional sampling was considered necessary. Monitoring well locations are shown in Figure 2.3-1.

2.3.1 Source Area Sampling

The objective of groundwater sampling in 1995 was to assess the presence of contaminants, generate a data set to compare to the 1994 results, and determine whether SS09 contaminants have migrated to the water supply well. As described in the IRA Work Plan and SAP (Air Force 1995b), water levels in the monitoring wells, the water supply well, and the Indian River were measured frequently to evaluate the connection between the wells and the river. The water levels in the monitoring wells were measured from the top of the well casing. The Indian River water level was measured from a calibrated marker attached to a bridge support. The water level staff gauge installed in 1994 was destroyed during the winter. The new marker was not surveyed; therefore, an absolute water level elevation for the river is not available.



MAGNETIC DECLINATION : 24° 42'
ANNUAL RATE OF CHANGE : 4.1'
U.S.G.S. EPOCH 1985

WG-SS09-MW02
GRO 62 UG/L
DI-N-BUTYL PHTHALATE 4.600 UG/L
BIS(2-ETHYLHEXYL)PHTHALATE 5.800 UG/L
DRO 0.08 MG/L

WG-SS09-MW04
GRO UG/L
DIESEL COMPS 0.8200 MG/L
ENDRIN 0.0220 UG/L
BTX 0.2900 UG/L
BROMOMETHANE 0.1200 UG/L
TOLUENE 0.2900 UG/L
BIS(2-ETHYLHEXYL)PHTHALATE 5.900 UG/L
TRICHLOROFLUORO METHANE 0.25 UG/L
DRO 2.10 MG/L
GRO 3100 UG/L

WG-SS09-MW03
GRO 850 UG/L
DRO 1.900 MG/L
BENZENE 1.900 UG/L
BTX 9.400 UG/L
ETHYLBENZENE 1.300 UG/L
XYLENES 6.200 UG/L
2-METHYLNAPHTHALENE 17 UG/L
DI-N-BUTYL PHTHALATE 3.500 UG/L
BIS(2-ETHYLHEXYL)PHTHALATE 3.8 UG/L
DRO 0.82 MG/L
GRO 230 UG/L
XYLENES 0.88 UG/L
ETHYLBENZENE 0.68 UG/L
BENZENE 3.5 UG/L

WATER SUPPLY WELL
WG-SS09-WG01
BENZENE 0.1700 UG/L
BTX 0.5500 UG/L
ETHYLBENZENE 0.1300 UG/L
TOLUENE 0.25 UG/L
DIBROMOMETHANE 0.22 UG/L
ND

WG-SS09-MW01
GRO 980 UG/L
DRO 9.200 MG/L
BENZENE 1.700 UG/L
BTX 26.70 UG/L
ETHYLBENZENE 3 UG/L
XYLENES 22 UG/L
2-METHYLNAPHTHALENE 30 UG/L
DRO 2.0 MG/L
GRO 560 UG/L
XYLENES 5.5 UG/L
ETHYLBENZENE 1.3 UG/L

WET LAND

MOGAS FOUNDATIONS

POL TANK

VEHICLE MAINT. BUILDING

LEGEND



EXISTING STRUCTURES



ROAD, UNIMPROVED GRAVEL



RIVER, STREAM, OR CREEK



ESCARPMENT

MW02 ●
(BH07)

MONITORING WELL LOCATION AND BOREHOLE NUMBER

DRO

1995 RESULTS



**INDIAN MOUNTAIN
LONG RANGE RADAR STATION
SS09
GROUNDWATER SAMPLE LOCATIONS
AND ANALYTICAL RESULTS
1994 AND 1995**

PROJ. MGR. R. HENRY	ACAD FILE NO. SS09E	FIGURE NO. 2.3-1
DRAWN BY HUNTER	PROJ. NO. 05-G-46200	DATE 6/16/95

Each of the four SS09 monitoring wells and the station water supply well were sampled and analyzed for VOC, GRO, and DRO concentrations. The laboratory results are summarized in Table 2.3-1 and shown in Figure 2.3-1. Appendix C contains a complete list of 1995 SS09 sampling results.

2.3.2 Data Evaluation

Limited contamination was detected in the source area SS09 groundwater samples. Contamination was not measured in the water supply well. GRO or DRO were present in all wells in excess of the ADEC water quality levels (ADEC 1995) established for total aromatic hydrocarbons (TAH) and total aqueous hydrocarbons (TAqH). The levels are 10 µg/L for TAH and 15 µg/L for TAqH. Phthalates were detected in all wells in 1994 but were not measured above detection limits in any of the 1995 groundwater samples. Total xylenes and ethylbenzene were both measured in wells SS09-MW01 and MW03. Levels detected were below available human health and ecological risk-based screening criteria, usually by one or more order of magnitude. Benzene was detected in three wells in 1994 and in well SS09-MW03 in 1995. The benzene concentration measured in MW03 exceeded the Alaska water quality ARAR (ADEC 1995) and the federal ambient water quality criteria (AWQC) ARAR (EPA 1986). Well SS09-MW03 is closest to the area of fuel releases and farthest away from the Indian River. Groundwater was not encountered in boreholes upgradient of MW03 that were drilled and sampled in 1994.

Water levels were measured on five of the eight days of field work. Water level variations versus time are summarized in Table 2.3-2 and Figure 2.3-2. The table and figure do not indicate actual elevation differences between the wells and the river. These data reflect that the groundwater in the SS09 monitoring wells represents bank storage of the Indian River and is subject to fluctuations resulting from increased or decreased discharge of the river. The connection is more apparent after reviewing the

TABLE 2.3-1
Positive Laboratory Results
Source Area SS09
Indian Mountain Long Range Radar Station

Matrix	Sample Identification	Test Method	Analyte	Value	Units	Detection Limit	Lab Qualifier
WG	WG-SS09-MW01-02	AK102	DIESEL RANGE ORGANICS	2.00	MG/L	0.1000	J
WG	WG-SS09-MW01-02	SW8260	ETHYLBENZENE	1.30	UG/L	0.3000	J
WG	WG-SS09-MW01-02	AK101	GASOLINE RANGE ORGANICS	560.00	UG/L	70.0000	
WG	WG-SS09-MW01-02	SW8260	TOTAL XYLENES	5.50	UG/L	0.3000	
WG	WG-SS09-MW02-02	AK102	DIESEL RANGE ORGANICS	0.08	MG/L	0.0200	J
WG	WG-SS09-MW03-02	SW8260	BENZENE	3.50	UG/L	0.2000	
WG	WG-SS09-MW03-02	AK102	DIESEL RANGE ORGANICS	0.82	MG/L	0.0200	J
WG	WG-SS09-MW03-02	SW8260	ETHYLBENZENE	0.68	UG/L	0.3000	J
WG	WG-SS09-MW03-02	AK101	GASOLINE RANGE ORGANICS	230.00	UG/L	70.0000	
WG	WG-SS09-MW03-02	SW8260	TOTAL XYLENES	0.88	UG/L	0.3000	J
WG	WG-SS09-MW04-02	AK102	DIESEL RANGE ORGANICS	2.10	MG/L	0.0200	
WG	WG-SS09-MW04-02	AK101	GASOLINE RANGE ORGANICS	3100.00	UG/L	70.0000	

Notes:

- J = estimated
- MG/L = milligrams per liter
- UG/L = micrograms per liter
- WG = groundwater

increase in water levels in the river and wells following an 12 and 13 August 1995 rain event. The fact that groundwater was not encountered in boreholes drilled upgradient of wells SS09-MW01 and SS09-MW03 further supports the conclusion that SS09 groundwater is Indian River bank storage.

FIGURE 2.3-2
Water Level Fluctuations with Time
SS09 Wells and Indian River

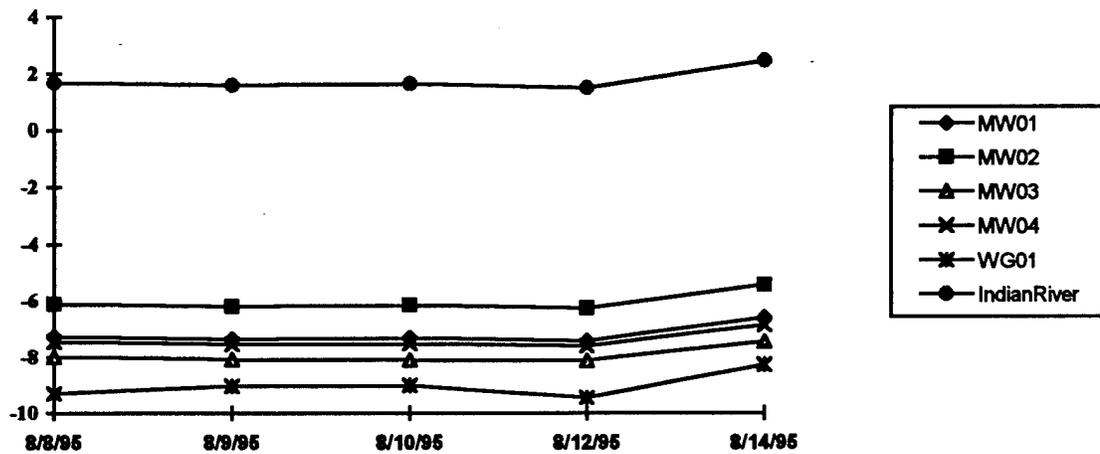


TABLE 2.3-2
Summary of Water Levels*

	SS09-MW01	SS09-MW02	SS09-MW03	SS09-MW04	SS09-WG01	Indian River
8/8/95	7.26	6.11	7.98	7.44	9.30	1.7
8/9/95	7.36	6.21	8.06	7.54	9.02	1.6
8/10/95	7.31	6.16	8.10	7.51	9.01	1.65
8/12/95	7.42	6.28	8.12	7.60	9.45	1.50
8/14/95	6.61	5.45	7.44	6.87	8.27	2.45

Notes:

* Water levels in wells were measured from the top of the well casing. River levels were measured as relative change and are not corrected for actual elevation.

2.3.3 Conclusions

The investigations at SS09 indicate that contamination in excess of state and federal ARARs is present in groundwater that is Indian River bank storage and therefore flows into the river. Additional data collection of surface water from the river, and possibly groundwater from SS09, is necessary to fully characterize contaminant migration and develop remedial alternatives.

2.4 SOURCE AREA SS10

Sources of contamination at source area SS10 include historical fuel releases from aboveground fuel tanks and chemical releases from a large drum storage area. An investigation of surface water locations at SS10 was conducted in 1995 to confirm the presence and concentration of pentachlorophenol (PCP) in surface water seeps at Upper Camp. Detections of PCP at two 1994 locations exceeded the AWQC (EPA 1986).

2.4.1 Source Area Sampling

The objective of the additional sampling at SS10 was to determine the extent of PCP contamination above the screening criteria. Eight samples were analyzed using Ensys PCP test kits (EPA Method 4010). The test kit detection levels were 10 and 40 ppm. PCP was not detected in any of the test kit samples. Wire fencing was proposed in the IRA Work Plan and SAP (Air Force 1995b) to prevent animal access to PCP-contaminated surface water. Because PCP was not detected in the test kit samples, fencing was not constructed over any of the test kit sampling locations. Three surface water samples were also collected for laboratory analysis of SVOCs (EPA Method SW8270), which includes PCP. PCP was detected in two of the samples. The laboratory results are included in Table 2.4-1. Laboratory results and sampling

TABLE 2.4-1
Positive Laboratory Results
Source Area SS10
Indian Mountain Long Range Radar Station

Matrix	Sample Identification	Test Method	Analyte	Value	Units	Detection Limit	Lab Qualifier	Human Health Risk	Ecological Risk
WS	WS-SS10-SW10	SW8270	PENTACHLOROPHENOL	460.00	UG/L	20.00000		MC CR ZZ	WA WC YY
WS	WS-SS10-SW11	SW8270	PENTACHLOROPHENOL	42.00	UG/L	3.00000	J	MC CR ZZ	WA WC YY

Notes:

- ARAR = applicable or relevant and appropriate requirements
- COPC = Contaminant of Potential Concern
- COPEC = Contaminant of Potential Ecological Concern
- CR = exceeds residential carcinogenic 10^{-6} water only - human health Preliminary Remediation Goal
- MC = exceeds maximum contaminant level
- UG/L = micrograms per liter
- WA = AWQC (federal ambient water quality criteria) acute - ecological ARAR
- WC = AWQC (federal ambient water quality criteria) chronic - ecological ARAR
- WS = surface water
- YY = retained as an ecological COPEC
- ZZ = retained as a human health COPC

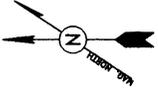
locations are included in Figure 2.4-1. Appendix D includes a complete list of 1995 sampling results for SS10.

2.4.2 Data Evaluation

PCP was identified as an ecological and human health contaminant of potential concern (COPC) in two SS10 surface water samples. The samples were designated WS-SS10-SW10 and -SW11. The concentration of PCP in both samples exceeded both acute (20 µg/L) and chronic (13 µg/L) exposure ARARs for ecological receptors. In addition, PCP levels exceeded the human health PRG for carcinogenic risk and the maximum contaminant level for protection of human health. The analyte concentration was estimated in sample WS-SS10-SW11.

The potential for human exposure to PCP in SS10 surface water is limited. The seeps where high levels of PCP are present are intermittent; flow is present after rain events. In addition, the Upper Camp area is frozen between October and May. Human activity at Upper Camp is limited to work inside the radar dome, road grading, and road maintenance. Sample WS-SS10-SW10 is located in an area that is rarely, if ever, visited by site personnel. Sample WS-SS10-SW11 was collected from a seep adjacent to the road to the radar dome. It is possible that a site worker would be in the area to perform road maintenance but exposure is considered unlikely because of low seep flow. The volume of water in the seep is small enough that in both 1994 and 1995 it was necessary to excavate a small catchment area to collect water samples.

The analytical results from the 1995 samples were evaluated as part of the quantitative ecological risk assessment process that was completed for PCP concentrations detected in surface waters at SS10 in 1994.



MAGNETIC DECLINATION : 2° 42'
ANNUAL RATE OF CHANGE : 4.1'
U.S.G.S. EPOCH 1985

LEGEND

-  SD01 - DUMP AREAS
-  SS10 - WASTE ACCUMULATION AREA 6 AND FUEL RELEASES 2, 5, 6, 7, 9, AND 10
-  OT08 - FORMER WACS LOCATION
-  IRA - DIVERSION DITCH

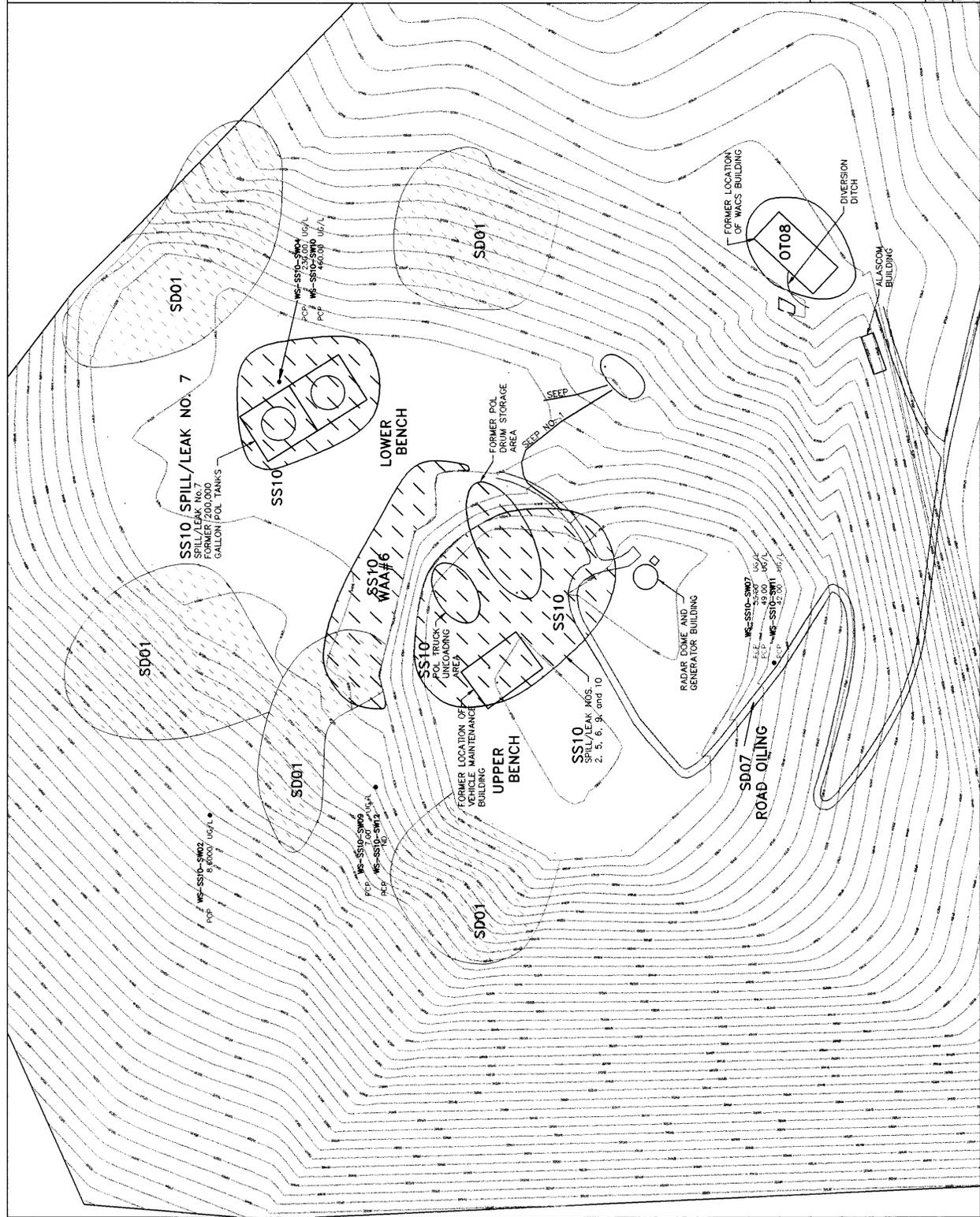
NOTE: ALL IRP SOURCE AREA LOCATIONS ARE APPROXIMATE
CONTOUR INTERVAL = 10'



**INDIAN MOUNTAIN
LONG RANGE RADAR STATION**
SS10 PCP SAMPLING LOCATIONS
AND ANALYTICAL RESULTS
1994 AND 1995



PROJ. MGR. R. HENRY	ACAD. FILE NO. 2.4-1	FIGURE NO. 2.4-1
DRAWN BY J. HUNTER	PROJ. NO. 05-G-46200	DATE 9/21/95



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To summarize the 1994 effort, surface water samples collected from two locations in 1994 contained PCP levels exceeding the AWQC (EPA 1986). Because complete pathways for ecological exposures exist, PCP was considered a chemical of potential ecological concern and data from 18 surface water samples were subjected to a quantitative ecological risk evaluation. The approach and results of the 1994 risk evaluation were presented in detail in the Final RI/FS report (Air Force 1995a). The previous quantitative risk evaluation was conducted to determine whether site-specific receptors that feed on flora and fauna in the affected surface water bodies would be sufficiently affected to warrant further action. The primary conclusion in 1994 is that avian and mammalian species that forage at Indian Mountain are not predicted to be negatively affected by PCP concentrations in SS10 surface water.

As stated, in 1995, three additional surface water samples were collected to further characterize PCP concentrations in the SS10 area. The maximum detected concentration of PCP in 1995 was 460 µg/L. The maximum detected concentration in 1994 was 230 µg/L of PCP. Because the maximum detected concentration in 1995 exceeded the 1994 levels, the data from the 1995 investigation were added to the 1994 data set and the quantitative risk evaluation was repeated to evaluate the potential for adverse effects. Appendix R of the Final RI/FS report (Air Force 1995a) gives a detailed explanation of the evaluation process and a definition of terms.

For the 1995 evaluation, data from 21 surface water samples with an arithmetic mean PCP concentration of 0.039 µg/L were evaluated. This compares with an arithmetic mean PCP concentration of 0.018 µg/L that was used in the 1994 risk evaluation. For completion of the risk evaluation, the same ecological receptors and species-specific assumptions that were used in 1994 were used in the 1995 evaluation.

For the 1995 assessment, the exposure pathways that were evaluated included the small mammal ingesting vegetation (based on arithmetic mean of PCP and home range); a passerine ingesting aquatic invertebrates (based on arithmetic mean of PCP

and home range); a raptor ingesting a small mammal, and a raptor ingesting a passerine (both of the latter were evaluated using arithmetic mean and home range).

Based on the evaluation of these exposure pathways, only one of the calculated ADDs exceeded the associated toxicity reference value (TRV). The applied daily dose (ADD) for the passerine ingesting aquatic invertebrates (2.6 milligrams per kilogram per day [mg/kg] per day) exceeded its selected TRV (1.3 mg/kg per day). The ADDs for the remaining exposure scenarios (small mammal ingesting vegetation and raptor ingesting a small mammal and a passerine) were less than their respective TRVs. Because the ADDs for these scenarios were less than the TRV, it can be concluded that detected PCP concentrations, when evaluating the mean concentration, are not anticipated to cause adverse affects to these receptors.

As stated, the ADD for the passerine ingesting aquatic invertebrates exceeded the associated TRV. Although the TRV was exceeded, it is unlikely that adverse affects will occur to passerines using the SS10 area, for several reasons. First, the surface water seeps are ephemeral and water flow is present only after significant storm events or from snow melt. Second, the harsh weather conditions that are very common during the summer months provide a natural barrier between passerines and the surface water within these seeps. Additionally, passerines do not frequent the Upper Camp area during the winter months and if they were to visit the area, surface waters are not active because temperatures are extreme. Thirdly, additional TRVs that are available for avian species that resulted in no deaths to the test species are reported at concentrations up to 3,100 mg/kg of PCP in diet (Hill and Camardese 1986). This TRV (3,100 mg/kg), which resulted in no deaths to the test species (Japanese quail), is far greater than the TRV (1.3 mg/kg) selected for comparison to the calculated ADD. Additionally, PCP in surface water was assumed to be 100 percent bioavailable to aquatic receptors frequenting the ephemeral seeps. This conservative assumption is expected to overestimate the potential exposure to aquatic receptors and hence, to passerines. For these reasons, it is not expected that passerines will suffer adverse

effects from the ingestion of aquatic receptors surviving in the ephemeral seeps within the SS10 area.

2.4.3 Conclusions

Based on the site conditions described above, potential for adverse effects from PCP-contaminated surface water is not expected. Further action at the SS10 PCP seeps is not recommended. The RI/FS recommendations for remediation of other SS10 contamination (fuels-related) is not affected by the results of 1995 field sampling for PCP. Institutional controls, including warning signs, will be implemented to prevent site personnel from excavating heavily contaminated soils and from exposure to the seeps containing PCP.

The construction of a diversion ditch as an IRA for source area SS10 was completed in August 1995. Details of this action are documented in the Construction Report for Interim Remedial Action and Treatability Study (Air Force 1995c). The primary objective of this action was to divert water around source area OT08, a PCB release area. The ditch will dewater OT08, which will decrease the transport of PCB by erosion and groundwater migration and will make future action related to PCB contamination easier to implement. A small monitoring well was installed within the lined ditch. Annual sampling of the well is recommended for the next five years to evaluate the ability of water that flows through SS10 to transport fuel contamination that is present in source area soils away from the site.

2.5 SOURCE AREA SS11

The sources of contamination at SS11 are fuel releases from the Lower Camp fuel storage tanks. The 1994 investigation at source area SS11 focused on subsurface soil and groundwater. A single sediment sample was collected in 1994. This sample contained elevated levels of GRO and DRO. Additional characterization of SS11

surface soil was considered necessary to define contaminant extent and evaluate human health and ecological risk.

2.5.1 Source Area Sampling

Although the goal was to collect surface soil samples, the presence of dense vegetation and decaying plant matter required excavation. Soils were accessed by removing live vegetation and up to 8 inches of decaying vegetation with a shovel. Although the soil collected may not have been exposed at the ground surface, it was the uppermost soil horizon that was suitable for laboratory analysis.

Twelve petroleum hydrocarbon test kit samples were analyzed to select locations for laboratory samples. The test kits were immunoassay type and follow EPA Method 4030. Test kit results are included as Table 2.5-1. Five laboratory samples were collected from locations where both test kit detections and nondetections occurred. Laboratory methods included VOC, SVOC, GRO, and DRO. Laboratory results are summarized in Table 2.5-2. The laboratory sample locations and results are shown in Figure 2.5-1. A complete list of 1995 sampling results from SS11 is included in Appendix E. Copies of all SS11 field sampling forms are also included in Appendix E.

TABLE 2.5-1 SS11 Petroleum Hydrocarbon Test Kit Results
(Detection Levels 50 and 200 ppm gasoline range organic compounds)*

Location	Result	Laboratory Sample
TK01	ND	
TK02	ND	SO-SS11-SS01
TK03	> 200	
TK04	ND	
TK05	ND	
TK06	ND	
TK07	ND	
TK08	ND	SO-SS11-SS02
TK09	ND	SO-SS11-SS03
TK10	ND	
TK11	> 200	SO-SS11-SS05
TK12	> 200	SO-SS11-SS04

Notes:

- * Based on test kit sensitivities, these GRO levels are approximately equivalent to 75 and 300 ppm diesel range organic compounds
- ND = Not detected

TABLE 2.5-2
Positive Laboratory Results
Source Area SS11
Indian Mountain Long Range Radar Station

Matrix	Sample Identification	Test Method	Analyte	Value	Units	Detection Limit	Lab Qualifier	Ecological Risk
SS	SO-SS11-SS01	SW8270	bis(2-ETHYLHEXYL) PHTHALATE	0.50	MG/KG	0.1000	J	YY
SS	SO-SS11-SS02	AK102	DIESEL RANGE ORGANICS	1.70	MG/KG	1.0000	J	
SS	SO-SS11-SS03	SW8240	ACETONE	0.04	MG/KG	0.0220	J	YY
SS	SO-SS11-SS03	AK102	DIESEL RANGE ORGANICS	9300.00	MG/KG	2.5000		
SS	SO-SS11-SS03	AK101	GASOLINE RANGE ORGANICS	4500.00	MG/KG	100.0000		
SS	SO-SS11-SS04	AK102	DIESEL RANGE ORGANICS	8600.00	MG/KG	450.0000		
SS	SO-SS11-SS04	AK101	GASOLINE RANGE ORGANICS	570.00	MG/KG	0.9000		
SS	SO-SS11-SS05	AK102	DIESEL RANGE ORGANICS	270.00	MG/KG	15.0000		

Notes:

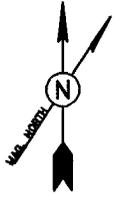
COPEC = Contaminant of Potential Ecological Concern

J = estimated

MG/KG = milligrams per kilogram

SS = surface soil

YY = retained as an ecological COPEC



MAGNETIC DECLINATION : 2° 42'
 ANNUAL RATE OF CHANGE : 4.1'
 U.S.G.S. EPOCH 1985

OVERHEAD POWERLINE

POND

SO-SS11-SS04
 GRO >200 ppm
 DRO 8600 MG/KG
 GRO 570 MG/KG

SO-SS11-SS02
 GRO <50 ppm
 DRO 1.70 MG/KG

SO-SS11-SS05
 GRO >200 ppm
 DRO 270 MG/KG

SO-SS11-SS03
 GRO ND
 DRO 9300 MG/KG
 GRO 4500 MG/KG
 ACETONE 0.04 MG/KG

SE-SS11-SD01
 GRO 2700 MG/KG
 DRO 33000 MG/KG

PIPELINE

TANK #10
 DIESEL

TANK FARM
 TANKS #2-#9

POL PIPELINE

SO-SS11-SS01
 GRO <50 ppm
 BIS(2-ETHYLHEXYL)PHTHALATE 0.50 MG/KG

AIRPORT RUNWAY

LEGEND

- EXISTING STRUCTURES
- ROAD, UNIMPROVED GRAVEL
- ESCARPMENT
- SURFACE DRAINAGE (DRY)
- 1995 SURFACE SOIL SAMPLE LOCATION
- 1994 SEDIMENT SAMPLE LOCATION
- ANTENNA



**INDIAN MOUNTAIN
 LONG RANGE RADAR STATION**

SS11
 1995 SAMPLE LOCATIONS
 AND ANALYTICAL RESULTS

PROJ. MGR. R. HENRY	ACAD FILE NO. SS11D	FIGURE NO. 2.5-1
DRAWN BY HUNTER	PROJ. NO. 05-G-46200	DATE 9/22/95

2.5.2 Data Evaluation

Four of five surface soil samples obtained in 1995 contained DRO; concentrations ranged from low to moderately high. Of note, DRO was detected at concentrations of 9,300 and 8,600 mg/kg in samples SS11-SS03 and SS11-SS04. Surface soil sample SS11-SS03 contained 4,500 mg/kg GRO. Two analytes, bis(2-ethylhexyl) phthalate and acetone, found in two surface soil samples, were identified as contaminants of potential ecological concern, not because risk levels were exceeded but because risk-based levels have not been calculated for these compounds. These levels were estimated by the laboratory. Both compounds are common laboratory contaminants.

As described earlier, access to the soils sampled at SS11 is limited by dense vegetation and plant matter. Human or ecological exposure to the contaminants measured in the soils is unlikely. The small drainage where sediment was sampled in 1994 is accessible to a greater variety of ecological receptors.

2.5.3 Conclusions

Exposure to DRO or GRO in the areas sampled in 1995 is improbable; therefore, further action is not recommended for SS11 surface soils. DRO contamination was measured in 1994 in the small drainage on the north side of the tanks. Because it presents a physical hazard to ecological receptors, action to prevent exposure to sediments is recommended. Cleanup may be required at some time in the future but is not recommended at this time. The station fuel tanks are located directly upgradient of the drainage. Because the tanks are still in use (in fact Tank No. 10 was recently returned to service) and the possibility for spills still exists, cleanup of contaminated sediment is not practical. Sediment sampling is recommended for the drainage. The samples will be tested for fuel concentrations and nutrient levels. Field methods or laboratory analyses may be used to collect the required data. The results will be

3.0 SUMMARY OF CONCLUSIONS

The 1995 sampling effort and resulting data were sufficient to complete source area characterization and risk evaluation needed for source areas SS02, OT08, and SS10. Additional data needs were not identified for these source areas. No further action is recommended for source area SS02. The remedial alternatives selected for OT08 and SS10 in the Final RI/FS report (Air Force 1995a) are still the favored alternatives for these sites. Institutional controls and sign postings are recommended for OT08 and SS10 to prevent access to subsurface soil or surface water contaminants. Additional investigation is recommended for source areas SS09 and SS11. More specific suggestions were described in Sections 2.3 and 2.5 of this report.

The conclusions or recommendations for each source area are summarized in the following table. The remedial technologies listed were evaluated in the Final RI/FS report (Air Force 1995a).

TABLE 3-1 Recommendations for RI/FS Addendum Source Areas

Source Area	1995 Tasks	1995 Conclusions/ Recommendations
SS02	Surface soil sampling	No further action.
OT08	PCB extent determination and subsurface soil characterization	Extent estimated. Establish institutional controls and post signs to prevent excavation in area until remedial action is implemented. Thermal desorption and dechlorination recommended for PCB removal.
SS09	Water level measurement Monitoring well sampling	SS09 groundwater is river bank storage. Conduct surface water and groundwater sampling to evaluate contaminant migration to Indian River. Remedial alternatives will be evaluated when additional data are available.
SS10	Surface water sampling for PCP	No further action at PCP locations. Establish institutional controls and post signs to prevent access to contaminants until remedial action is implemented. Recommendation for fuel contamination is natural attenuation and long-term monitoring.
SS11	Surface soil sampling	Characterize nutrient levels and contaminant concentrations in drainage sediment. Remedial alternatives will be evaluated when additional data are available.

4.0 REFERENCES

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APPENDIX A
SS02 LABORATORY RESULTS
SS02 SAMPLING FORMS

TABLE A
Laboratory Results
Source Area SS02
Indian Mountain Long Range Radar Station

Matrix	Sample Identification	Test Method	Analyte	Value	Units	Detection Limit	Lab Qualifier	Ecological Risk
SS	SO-SS02-SS01	SW8240	1,1,1-TRICHLOROETHANE	0.00	MG/KG	0.0006	U	
SS	SO-SS02-SS01	SW8240	1,1,2,2-TETRACHLOROETHANE	0.00	MG/KG	0.0008	U	
SS	SO-SS02-SS01	SW8240	1,1,2-TRICHLOROETHANE	0.00	MG/KG	0.0009	U	
SS	SO-SS02-SS01	SW8240	1,1-DICHLOROETHANE	0.00	MG/KG	0.0003	U	
SS	SO-SS02-SS01	SW8240	1,1-DICHLOROETHENE	0.00	MG/KG	0.0006	U	
SS	SO-SS02-SS01	SW8270	1,2,4-TRICHLOROBENZENE	0.00	MG/KG	0.2000	U	
SS	SO-SS02-SS01	SW8270	1,2-DICHLOROBENZENE	0.00	MG/KG	0.2000	U	
SS	SO-SS02-SS01	SW8240	1,2-DICHLOROETHANE	0.00	MG/KG	0.0008	U	
SS	SO-SS02-SS01	SW8240	1,2-DICHLOROPROPANE	0.00	MG/KG	0.0005	U	
SS	SO-SS02-SS01	SW8270	1,3-DICHLOROBENZENE	0.00	MG/KG	0.2000	U	
SS	SO-SS02-SS01	SW8270	1,4-DICHLOROBENZENE	0.00	MG/KG	0.2000	U	
SS	SO-SS02-SS01	SW8270	2,4,5-TRICHLOROPHENOL	0.00	MG/KG	0.2000	U	
SS	SO-SS02-SS01	SW8270	2,4,6-TRICHLOROPHENOL	0.00	MG/KG	0.2000	U	
SS	SO-SS02-SS01	SW8270	2,4-DICHLOROPHENOL	0.00	MG/KG	0.2000	U	
SS	SO-SS02-SS01	SW8270	2,4-DIMETHYLPHENOL	0.00	MG/KG	0.2000	U	
SS	SO-SS02-SS01	SW8270	2,4-DINITROPHENOL	0.00	MG/KG	0.1000	U	
SS	SO-SS02-SS01	SW8270	2,4-DINITROTOLUENE	0.00	MG/KG	0.1000	U	
SS	SO-SS02-SS01	SW8270	2,6-DINITROTOLUENE	0.00	MG/KG	0.2000	U	
SS	SO-SS02-SS01	SW8240	2-CHLOROETHYL VINYL ETHER	0.00	MG/KG	0.0009	U	
SS	SO-SS02-SS01	SW8270	2-CHLORONAPHTHALENE	0.00	MG/KG	0.2000	U	
SS	SO-SS02-SS01	SW8270	2-CHLOROPHENOL	0.00	MG/KG	0.2000	U	
SS	SO-SS02-SS01	SW8240	2-HEXANONE	0.00	MG/KG	0.0030	U	
SS	SO-SS02-SS01	SW8270	2-METHYLNAPHTHALENE	0.00	MG/KG	0.2000	U	
SS	SO-SS02-SS01	SW8270	2-METHYLPHENOL (o-CRESOL)	0.00	MG/KG	0.2000	U	
SS	SO-SS02-SS01	SW8270	2-NITROANILINE	0.00	MG/KG	0.2000	U	
SS	SO-SS02-SS01	SW8270	2-NITROPHENOL	0.00	MG/KG	0.2000	U	
SS	SO-SS02-SS01	SW8270	3,3'-DICHLOROBENZIDINE	0.00	MG/KG	0.1000	U	
SS	SO-SS02-SS01	SW8270	3-NITROANILINE	0.00	MG/KG	0.2000	U	
SS	SO-SS02-SS01	SW8270	4,6-DINITRO-2-METHYLPHENOL	0.00	MG/KG	0.2000	U	
SS	SO-SS02-SS01	SW8270	4-BROMOPHENYL PHENYL ETHER	0.00	MG/KG	0.1000	U	
SS	SO-SS02-SS01	SW8270	4-CHLORO-3-METHYLPHENOL	0.00	MG/KG	0.2000	U	
SS	SO-SS02-SS01	SW8270	4-CHLOROANILINE	0.00	MG/KG	0.2000	U	
SS	SO-SS02-SS01	SW8270	4-CHLOROPHENYL PHENYL ETHER	0.00	MG/KG	0.1000	U	

TABLE A
Laboratory Results
Source Area SS02
Indian Mountain Long Range Radar Station

Matrix	Sample Identification	Test Method	Analyte	Value	Units	Detection Limit	Lab Qualifier	Ecological Risk
SS	SO-SS02-SS01	SW8270	4-METHYLPHENOL (p-CRESOL)	0.00	MG/KG	0.3000	U	
SS	SO-SS02-SS01	SW8270	4-NITROANILINE	0.00	MG/KG	0.2000	U	
SS	SO-SS02-SS01	SW8270	4-NITROPHENOL	0.00	MG/KG	0.1000	U	
SS	SO-SS02-SS01	SW8270	ACENAPHTHENE	0.00	MG/KG	0.1000	U	
SS	SO-SS02-SS01	SW8270	ACENAPHTHYLENE	0.00	MG/KG	0.2000	U	
SS	SO-SS02-SS01	SW8240	ACETONE	0.00	MG/KG	0.0090	U	
SS	SO-SS02-SS01	SW8270	ANTHRACENE	0.00	MG/KG	0.1000	U	
SS	SO-SS02-SS01	SW8240	BENZENE	0.00	MG/KG	0.0006	U	
SS	SO-SS02-SS01	SW8270	BENZO(a)ANTHRACENE	0.00	MG/KG	0.1000	U	
SS	SO-SS02-SS01	SW8270	BENZO(a)PYRENE	0.00	MG/KG	0.1000	U	
SS	SO-SS02-SS01	SW8270	BENZO(b)FLUORANTHENE	0.00	MG/KG	0.1000	U	
SS	SO-SS02-SS01	SW8270	BENZO(g,h,i)PERYLENE	0.00	MG/KG	0.1000	U	
SS	SO-SS02-SS01	SW8270	BENZO(k)FLUORANTHENE	0.00	MG/KG	0.1000	U	
SS	SO-SS02-SS01	SW8270	BENZOIC ACID	0.00	MG/KG	1.0000	U	
SS	SO-SS02-SS01	SW8270	BENZYL ALCOHOL	0.00	MG/KG	0.2000	U	
SS	SO-SS02-SS01	SW8270	BENZYL BUTYL PHTHALATE	0.00	MG/KG	0.1000	U	
SS	SO-SS02-SS01	SW8270	bis(2-CHLOROETHOXY) METHANE	0.00	MG/KG	0.2000	U	
SS	SO-SS02-SS01	SW8270	bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	0.00	MG/KG	0.2000	U	
SS	SO-SS02-SS01	SW8270	bis(2-CHLOROISOPROPYL) ETHER	0.00	MG/KG	0.2000	U	
SS	SO-SS02-SS01	SW8270	bis(2-ETHYLHEXYL) PHTHALATE	0.00	MG/KG	0.1000	U	
SS	SO-SS02-SS01	SW8240	BROMODICHLOROMETHANE	0.00	MG/KG	0.0003	U	
SS	SO-SS02-SS01	SW8240	BROMOFORM	0.00	MG/KG	0.0004	U	
SS	SO-SS02-SS01	SW8240	BROMOMETHANE	0.00	MG/KG	0.0009	U	
SS	SO-SS02-SS01	SW8240	CARBON DISULFIDE	0.00	MG/KG	0.0020	U	
SS	SO-SS02-SS01	SW8240	CARBON TETRACHLORIDE	0.00	MG/KG	0.0008	U	
SS	SO-SS02-SS01	SW8240	CHLOROBENZENE	0.00	MG/KG	0.0004	U	
SS	SO-SS02-SS01	SW8240	CHLOROETHANE	0.00	MG/KG	0.0010	U	
SS	SO-SS02-SS01	SW8240	CHLOROFORM	0.00	MG/KG	0.0010	U	
SS	SO-SS02-SS01	SW8240	CHLOROMETHANE	0.00	MG/KG	0.0009	U	
SS	SO-SS02-SS01	SW8270	CHRYSENE	0.00	MG/KG	0.1000	U	
SS	SO-SS02-SS01	SW8240	cis-1,2-DICHLOROETHYLENE	0.00	MG/KG	0.0010	U	
SS	SO-SS02-SS01	SW8240	cis-1,3-DICHLOROPROPENE	0.00	MG/KG	0.0007	U	
SS	SO-SS02-SS01	SW8270	DI-n-BUTYL PHTHALATE	0.00	MG/KG	0.1000	U	

TABLE A
Laboratory Results
Source Area SS02
Indian Mountain Long Range Radar Station

Matrix	Sample Identification	Test Method	Analyte	Value	Units	Detection Limit	Lab Qualifier	Ecological Risk
SS	SO-SS02-SS01	SW8270	DI-n-OCTYLPHTHALATE	0.00	MG/KG	0.1000	U	
SS	SO-SS02-SS01	SW8270	DIBENZ(a,h) ANTHRACENE	0.00	MG/KG	0.1000	U	
SS	SO-SS02-SS01	SW8270	DIBENZOFURAN	0.00	MG/KG	0.1000	U	
SS	SO-SS02-SS01	SW8240	DIBROMOCHLOROMETHANE	0.00	MG/KG	0.0007	U	
SS	SO-SS02-SS01	AK102	DIESEL RANGE ORGANICS	26.00	MG/KG	0.9000		
SS	SO-SS02-SS01	SW8270	DIETHYL PHTHALATE	0.00	MG/KG	0.2000	U	
SS	SO-SS02-SS01	SW8270	DIMETHYL PHTHALATE	0.00	MG/KG	0.2000	U	
SS	SO-SS02-SS01	SW8240	ETHYLBENZENE	0.00	MG/KG	0.0005	U	
SS	SO-SS02-SS01	SW8270	FLUORANTHENE	0.00	MG/KG	0.1000	U	
SS	SO-SS02-SS01	SW8270	FLUORENE	0.00	MG/KG	0.1000	U	
SS	SO-SS02-SS01	AK101	GASOLINE RANGE ORGANICS	0.00	MG/KG	0.0800	U	
SS	SO-SS02-SS01	SW8270	HEXACHLOROBENZENE	0.00	MG/KG	0.1000	U	
SS	SO-SS02-SS01	SW8270	HEXACHLOROBUTADIENE	0.00	MG/KG	0.2000	U	
SS	SO-SS02-SS01	SW8270	HEXACHLOROCYCLOPENTADIENE	0.00	MG/KG	0.1000	U	
SS	SO-SS02-SS01	SW8270	HEXACHLOROETHANE	0.00	MG/KG	0.2000	U	
SS	SO-SS02-SS01	SW8270	INDENO(1,2,3-c,d) PYRENE	0.00	MG/KG	0.2000	U	
SS	SO-SS02-SS01	SW8270	ISOPHORONE	0.00	MG/KG	0.2000	U	
SS	SO-SS02-SS01	SW8240	METHYL ETHYL KETONE (2-BUTANONE)	0.00	MG/KG	0.0040	U	
SS	SO-SS02-SS01	SW8240	METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	0.00	MG/KG	0.0020	U	
SS	SO-SS02-SS01	SW8240	METHYLENE CHLORIDE	0.00	MG/KG	0.0007	U	
SS	SO-SS02-SS01	SW8270	N-NITROSODI-n-PROPYLAMINE	0.00	MG/KG	0.2000	U	
SS	SO-SS02-SS01	SW8270	N-NITROSODIPHENYLAMINE	0.00	MG/KG	0.1000	U	
SS	SO-SS02-SS01	SW8270	NAPHTHALENE	0.00	MG/KG	0.2000	U	
SS	SO-SS02-SS01	SW8270	NITROBENZENE	0.00	MG/KG	0.2000	U	
SS	SO-SS02-SS01	SW8270	PENTACHLOROPHENOL	0.00	MG/KG	0.1000	U	
SS	SO-SS02-SS01	SW8270	PHENANTHRENE	0.00	MG/KG	0.1000	U	
SS	SO-SS02-SS01	SW8270	PHENOL	0.00	MG/KG	0.1000	U	
SS	SO-SS02-SS01	SW8270	PYRENE	0.00	MG/KG	0.1000	U	
SS	SO-SS02-SS01	SW8240	STYRENE	0.00	MG/KG	0.0009	U	
SS	SO-SS02-SS01	SW8240	TETRACHLOROETHYLENE (PCE)	0.00	MG/KG	0.0005	U	
SS	SO-SS02-SS01	SW8240	TOLUENE	0.00	MG/KG	0.0004	U	
SS	SO-SS02-SS01	SW8240	TOTAL XYLENES	0.00	MG/KG	0.0030	U	
SS	SO-SS02-SS01	SW8240	trans-1,2-DICHLOROETHENE	0.00	MG/KG	0.0004	U	

TABLE A
Laboratory Results
Source Area SS02
Indian Mountain Long Range Radar Station

Matrix	Sample Identification	Test Method	Analyte	Value	Units	Detection Limit	Lab Qualifier	Ecological Risk
SS	SO-SS02-SS01	SW8240	trans-1,3-DICHLOROPROPENE	0.00	MG/KG	0.0004	U	
SS	SO-SS02-SS01	SW8240	TRICHLOROETHYLENE (TCE)	0.00	MG/KG	0.0005	U	
SS	SO-SS02-SS01	SW8240	VINYL ACETATE	0.00	MG/KG	0.0010	U	
SS	SO-SS02-SS01	SW8240	VINYL CHLORIDE	0.00	MG/KG	0.0010	U	
SS	SO-SS02-SS02	SW8240	1,1,1-TRICHLOROETHANE	0.00	MG/KG	0.0006	U	
SS	SO-SS02-SS02	SW8240	1,1,2,2-TETRACHLOROETHANE	0.00	MG/KG	0.0008	U	
SS	SO-SS02-SS02	SW8240	1,1,2-TRICHLOROETHANE	0.00	MG/KG	0.0009	U	
SS	SO-SS02-SS02	SW8240	1,1-DICHLOROETHANE	0.00	MG/KG	0.0003	U	
SS	SO-SS02-SS02	SW8240	1,1-DICHLOROETHENE	0.00	MG/KG	0.0006	U	
SS	SO-SS02-SS02	SW8270	1,2,4-TRICHLOROETHANE	0.00	MG/KG	0.2000	U	
SS	SO-SS02-SS02	SW8270	1,2-DICHLOROETHANE	0.00	MG/KG	0.2000	U	
SS	SO-SS02-SS02	SW8240	1,2-DICHLOROETHANE	0.00	MG/KG	0.0008	U	
SS	SO-SS02-SS02	SW8240	1,2-DICHLOROPROPANE	0.00	MG/KG	0.0005	U	
SS	SO-SS02-SS02	SW8270	1,3-DICHLOROETHANE	0.00	MG/KG	0.2000	U	
SS	SO-SS02-SS02	SW8270	1,4-DICHLOROETHANE	0.00	MG/KG	0.2000	U	
SS	SO-SS02-SS02	SW8270	2,4,5-TRICHLOROPHENOL	0.00	MG/KG	0.2000	U	
SS	SO-SS02-SS02	SW8270	2,4,6-TRICHLOROPHENOL	0.00	MG/KG	0.2000	U	
SS	SO-SS02-SS02	SW8270	2,4-DICHLOROPHENOL	0.00	MG/KG	0.2000	U	
SS	SO-SS02-SS02	SW8270	2,4-DIMETHYLPHENOL	0.00	MG/KG	0.2000	U	
SS	SO-SS02-SS02	SW8270	2,4-DINITROPHENOL	0.00	MG/KG	0.1000	U	
SS	SO-SS02-SS02	SW8270	2,4-DINITROTOLUENE	0.00	MG/KG	0.1000	U	
SS	SO-SS02-SS02	SW8270	2,6-DINITROTOLUENE	0.00	MG/KG	0.2000	U	
SS	SO-SS02-SS02	SW8240	2-CHLOROETHYL VINYL ETHER	0.00	MG/KG	0.0009	U	
SS	SO-SS02-SS02	SW8270	2-CHLORONAPHTHALENE	0.00	MG/KG	0.2000	U	
SS	SO-SS02-SS02	SW8270	2-CHLOROPHENOL	0.00	MG/KG	0.2000	U	
SS	SO-SS02-SS02	SW8240	2-HEXANONE	0.00	MG/KG	0.0030	U	
SS	SO-SS02-SS02	SW8270	2-METHYLNAPHTHALENE	0.00	MG/KG	0.2000	U	
SS	SO-SS02-SS02	SW8270	2-METHYLPHENOL (o-CRESOL)	0.00	MG/KG	0.2000	U	
SS	SO-SS02-SS02	SW8270	2-NITROANILINE	0.00	MG/KG	0.2000	U	
SS	SO-SS02-SS02	SW8270	2-NITROPHENOL	0.00	MG/KG	0.2000	U	
SS	SO-SS02-SS02	SW8270	3,3'-DICHLOROBENZIDINE	0.00	MG/KG	0.1000	U	
SS	SO-SS02-SS02	SW8270	3-NITROANILINE	0.00	MG/KG	0.2000	U	
SS	SO-SS02-SS02	SW8270	4,6-DINITRO-2-METHYLPHENOL	0.00	MG/KG	0.2000	U	

TABLE A
Laboratory Results
Source Area SS02
Indian Mountain Long Range Radar Station

Matrix	Sample Identification	Test Method	Analyte	Value	Units	Detection Limit	Lab Qualifier	Ecological Risk
SS	SO-SS02-SS02	SW8270	4-BROMOPHENYL PHENYL ETHER	0.00	MG/KG	0.1000	U	
SS	SO-SS02-SS02	SW8270	4-CHLORO-3-METHYLPHENOL	0.00	MG/KG	0.2000	U	
SS	SO-SS02-SS02	SW8270	4-CHLOROANILINE	0.00	MG/KG	0.2000	U	
SS	SO-SS02-SS02	SW8270	4-CHLOROPHENYL PHENYL ETHER	0.00	MG/KG	0.1000	U	
SS	SO-SS02-SS02	SW8270	4-METHYLPHENOL (p-CRESOL)	0.00	MG/KG	0.3000	U	
SS	SO-SS02-SS02	SW8270	4-NITROANILINE	0.00	MG/KG	0.2000	U	
SS	SO-SS02-SS02	SW8270	4-NITROPHENOL	0.00	MG/KG	0.1000	U	
SS	SO-SS02-SS02	SW8270	ACENAPHTHENE	0.00	MG/KG	0.1000	U	
SS	SO-SS02-SS02	SW8270	ACENAPHTHYLENE	0.00	MG/KG	0.2000	U	
SS	SO-SS02-SS02	SW8240	ACETONE	0.00	MG/KG	0.0090	U	
SS	SO-SS02-SS02	SW8270	ANTHRACENE	0.00	MG/KG	0.1000	U	
SS	SO-SS02-SS02	SW8240	BENZENE	0.00	MG/KG	0.0006	U	
SS	SO-SS02-SS02	SW8270	BENZO(a)ANTHRACENE	0.00	MG/KG	0.1000	U	
SS	SO-SS02-SS02	SW8270	BENZO(a)PYRENE	0.00	MG/KG	0.1000	U	
SS	SO-SS02-SS02	SW8270	BENZO(b)FLUORANTHENE	0.00	MG/KG	0.1000	U	
SS	SO-SS02-SS02	SW8270	BENZO(g,h,i)PERYLENE	0.00	MG/KG	0.1000	U	
SS	SO-SS02-SS02	SW8270	BENZO(k)FLUORANTHENE	0.00	MG/KG	0.1000	U	
SS	SO-SS02-SS02	SW8270	BENZOIC ACID	0.00	MG/KG	1.0000	U	
SS	SO-SS02-SS02	SW8270	BENZYL ALCOHOL	0.00	MG/KG	0.2000	U	
SS	SO-SS02-SS02	SW8270	BENZYL BUTYL PHTHALATE	0.00	MG/KG	0.1000	U	
SS	SO-SS02-SS02	SW8270	bis(2-CHLOROETHOXY) METHANE	0.00	MG/KG	0.2000	U	
SS	SO-SS02-SS02	SW8270	bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	0.00	MG/KG	0.2000	U	
SS	SO-SS02-SS02	SW8270	bis(2-CHLOROISOPROPYL) ETHER	0.00	MG/KG	0.2000	U	
SS	SO-SS02-SS02	SW8270	bis(2-ETHYLHEXYL) PHTHALATE	0.27	MG/KG	0.1000	J	NO1
SS	SO-SS02-SS02	SW8240	BROMODICHLOROMETHANE	0.00	MG/KG	0.0003	U	
SS	SO-SS02-SS02	SW8240	BROMOFORM	0.00	MG/KG	0.0004	U	
SS	SO-SS02-SS02	SW8240	BROMOMETHANE	0.00	MG/KG	0.0009	U	
SS	SO-SS02-SS02	SW8240	CARBON DISULFIDE	0.00	MG/KG	0.0020	J	
SS	SO-SS02-SS02	SW8240	CARBON TETRACHLORIDE	0.00	MG/KG	0.0008	U	
SS	SO-SS02-SS02	SW8240	CHLOROBENZENE	0.00	MG/KG	0.0004	U	
SS	SO-SS02-SS02	SW8240	CHLOROETHANE	0.00	MG/KG	0.0010	U	
SS	SO-SS02-SS02	SW8240	CHLOROFORM	0.00	MG/KG	0.0010	U	
SS	SO-SS02-SS02	SW8240	CHLOROMETHANE	0.00	MG/KG	0.0009	U	

TABLE A
Laboratory Results
Source Area SS02
Indian Mountain Long Range Radar Station

Matrix	Sample Identification	Test Method	Analyte	Value	Units	Detection Limit	Lab Qualifier	Ecological Risk
SS	SO-SS02-SS02	SW8270	CHRYSENE	0.00	MG/KG	0.1000	U	
SS	SO-SS02-SS02	SW8240	cis-1,2-DICHLOROETHYLENE	0.00	MG/KG	0.0010	U	
SS	SO-SS02-SS02	SW8240	cis-1,3-DICHLOROPROPENE	0.00	MG/KG	0.0007	U	
SS	SO-SS02-SS02	SW8270	Di-n-BUTYL PHTHALATE	0.00	MG/KG	0.1000	U	
SS	SO-SS02-SS02	SW8270	Di-n-OCTYL PHTHALATE	0.00	MG/KG	0.1000	U	
SS	SO-SS02-SS02	SW8270	DIBENZ(a,h)ANTHRACENE	0.00	MG/KG	0.1000	U	
SS	SO-SS02-SS02	SW8270	DIBENZOFURAN	0.00	MG/KG	0.1000	U	
SS	SO-SS02-SS02	SW8240	DIBROMOCHLOROMETHANE	0.00	MG/KG	0.0007	U	
SS	SO-SS02-SS02	AK102	DIESEL RANGE ORGANICS	15.00	MG/KG	0.9000		
SS	SO-SS02-SS02	SW8270	DIETHYL PHTHALATE	0.00	MG/KG	0.2000	U	
SS	SO-SS02-SS02	SW8270	DIMETHYL PHTHALATE	0.00	MG/KG	0.2000	U	
SS	SO-SS02-SS02	SW8240	ETHYLBENZENE	0.00	MG/KG	0.0005	U	
SS	SO-SS02-SS02	SW8270	FLUORANTHENE	0.00	MG/KG	0.1000	U	
SS	SO-SS02-SS02	SW8270	FLUORENE	0.00	MG/KG	0.1000	U	
SS	SO-SS02-SS02	AK101	GASOLINE RANGE ORGANICS	0.00	MG/KG	0.0800	U	
SS	SO-SS02-SS02	SW8270	HEXACHLOROBENZENE	0.00	MG/KG	0.1000	U	
SS	SO-SS02-SS02	SW8270	HEXACHLOROBUTADIENE	0.00	MG/KG	0.2000	U	
SS	SO-SS02-SS02	SW8270	HEXACHLOROCYCLOPENTADIENE	0.00	MG/KG	0.1000	U	
SS	SO-SS02-SS02	SW8270	HEXACHLOROETHANE	0.00	MG/KG	0.2000	U	
SS	SO-SS02-SS02	SW8270	INDENO(1,2,3-c,d) PYRENE	0.00	MG/KG	0.2000	U	
SS	SO-SS02-SS02	SW8270	ISOPHORONE	0.00	MG/KG	0.2000	U	
SS	SO-SS02-SS02	SW8240	METHYL ETHYL KETONE (2-BUTANONE)	0.00	MG/KG	0.0040	U	
SS	SO-SS02-SS02	SW8240	METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	0.00	MG/KG	0.0020	U	
SS	SO-SS02-SS02	SW8240	METHYLENE CHLORIDE	0.00	MG/KG	0.0007	U	
SS	SO-SS02-SS02	SW8270	N-NITROSODI-n-PROPYLAMINE	0.00	MG/KG	0.2000	U	
SS	SO-SS02-SS02	SW8270	N-NITROSODIPHENYLAMINE	0.00	MG/KG	0.1000	U	
SS	SO-SS02-SS02	SW8270	NAPHTHALENE	0.00	MG/KG	0.2000	U	
SS	SO-SS02-SS02	SW8270	NITROBENZENE	0.00	MG/KG	0.2000	U	
SS	SO-SS02-SS02	SW8270	PENTACHLOROPHENOL	0.00	MG/KG	0.1000	U	
SS	SO-SS02-SS02	SW8270	PHENANTHRENE	0.00	MG/KG	0.1000	U	
SS	SO-SS02-SS02	SW8270	PHENOL	0.00	MG/KG	0.1000	U	
SS	SO-SS02-SS02	SW8270	PYRENE	0.00	MG/KG	0.1000	U	
SS	SO-SS02-SS02	SW8240	STYRENE	0.00	MG/KG	0.0009	U	

TABLE A
Laboratory Results
Source Area SS02
Indian Mountain Long Range Radar Station

Matrix	Sample Identification	Test Method	Analyte	Value	Units	Detection Limit	Lab Qualifier	Ecological Risk
SS	SO-SS02-SS02	SW8240	TETRACHLOROETHYLENE (PCE)	0.00	MG/KG	0.0005	U	
SS	SO-SS02-SS02	SW8240	TOLUENE	0.00	MG/KG	0.0004	U	
SS	SO-SS02-SS02	SW8240	TOTAL XYLENES	0.00	MG/KG	0.0030	U	
SS	SO-SS02-SS02	SW8240	trans-1,2-DICHLOROETHENE	0.00	MG/KG	0.0004	U	
SS	SO-SS02-SS02	SW8240	trans-1,3-DICHLOROPROPENE	0.00	MG/KG	0.0004	U	
SS	SO-SS02-SS02	SW8240	TRICHLOROETHYLENE (TCE)	0.00	MG/KG	0.0005	U	
SS	SO-SS02-SS02	SW8240	VINYL ACETATE	0.00	MG/KG	0.0010	U	
SS	SO-SS02-SS02	SW8240	VINYL CHLORIDE	0.00	MG/KG	0.0010	U	
SS	SO-SS02-SS03	SW8240	1,1,1-TRICHLOROETHANE	0.00	MG/KG	0.0006	U	
SS	SO-SS02-SS03	SW8240	1,1,2-TETRACHLOROETHANE	0.00	MG/KG	0.0008	U	
SS	SO-SS02-SS03	SW8240	1,1,2-TRICHLOROETHANE	0.00	MG/KG	0.0009	U	
SS	SO-SS02-SS03	SW8240	1,1-DICHLOROETHANE	0.00	MG/KG	0.0003	U	
SS	SO-SS02-SS03	SW8240	1,1-DICHLOROETHENE	0.00	MG/KG	0.0006	U	
SS	SO-SS02-SS03	SW8270	1,2,4-TRICHLOROBENZENE	0.00	MG/KG	0.2000	U	
SS	SO-SS02-SS03	SW8270	1,2-DICHLOROBENZENE	0.00	MG/KG	0.2000	U	
SS	SO-SS02-SS03	SW8240	1,2-DICHLOROETHANE	0.00	MG/KG	0.0008	U	
SS	SO-SS02-SS03	SW8240	1,2-DICHLOROPROPANE	0.00	MG/KG	0.0005	U	
SS	SO-SS02-SS03	SW8270	1,3-DICHLOROBENZENE	0.00	MG/KG	0.2000	U	
SS	SO-SS02-SS03	SW8270	1,4-DICHLOROBENZENE	0.00	MG/KG	0.2000	U	
SS	SO-SS02-SS03	SW8270	2,4,5-TRICHLOROPHENOL	0.00	MG/KG	0.2000	U	
SS	SO-SS02-SS03	SW8270	2,4,6-TRICHLOROPHENOL	0.00	MG/KG	0.2000	U	
SS	SO-SS02-SS03	SW8270	2,4-DICHLOROPHENOL	0.00	MG/KG	0.2000	U	
SS	SO-SS02-SS03	SW8270	2,4-DIMETHYLPHENOL	0.00	MG/KG	0.2000	U	
SS	SO-SS02-SS03	SW8270	2,4-DINITROPHENOL	0.00	MG/KG	0.1000	U	
SS	SO-SS02-SS03	SW8270	2,4-DINITROTOLUENE	0.00	MG/KG	0.1000	U	
SS	SO-SS02-SS03	SW8270	2,6-DINITROTOLUENE	0.00	MG/KG	0.2000	U	
SS	SO-SS02-SS03	SW8240	2-CHLOROETHYL VINYL ETHER	0.00	MG/KG	0.0009	U	
SS	SO-SS02-SS03	SW8270	2-CHLORONAPHTHALENE	0.00	MG/KG	0.2000	U	
SS	SO-SS02-SS03	SW8270	2-CHLOROPHENOL	0.00	MG/KG	0.2000	U	
SS	SO-SS02-SS03	SW8240	2-HEXANONE	0.00	MG/KG	0.0030	U	
SS	SO-SS02-SS03	SW8270	2-METHYLNAPHTHALENE	0.00	MG/KG	0.2000	U	
SS	SO-SS02-SS03	SW8270	2-METHYLPHENOL (o-CRESOL)	0.00	MG/KG	0.2000	U	
SS	SO-SS02-SS03	SW8270	2-NITROANILINE	0.00	MG/KG	0.2000	U	

TABLE A
Laboratory Results
Source Area SS02
Indian Mountain Long Range Radar Station

Matrix	Sample Identification	Test Method	Analyte	Value	Units	Detection Limit	Lab Qualifier	Ecological Risk
SS	SO-SS02-SS03	SW8270	2-NITROPHENOL	0.00	MG/KG	0.2000	U	
SS	SO-SS02-SS03	SW8270	3,3'-DICHLOROBENZIDINE	0.00	MG/KG	0.1000	U	
SS	SO-SS02-SS03	SW8270	3-NITROANILINE	0.00	MG/KG	0.2000	U	
SS	SO-SS02-SS03	SW8270	4,6-DINITRO-2-METHYLPHENOL	0.00	MG/KG	0.2000	U	
SS	SO-SS02-SS03	SW8270	4-BROMOPHENYL PHENYL ETHER	0.00	MG/KG	0.1000	U	
SS	SO-SS02-SS03	SW8270	4-CHLORO-3-METHYLPHENOL	0.00	MG/KG	0.2000	U	
SS	SO-SS02-SS03	SW8270	4-CHLOROANILINE	0.00	MG/KG	0.2000	U	
SS	SO-SS02-SS03	SW8270	4-CHLOROPHENYL PHENYL ETHER	0.00	MG/KG	0.1000	U	
SS	SO-SS02-SS03	SW8270	4-METHYLPHENOL (p-CRESOL)	0.00	MG/KG	0.3000	U	
SS	SO-SS02-SS03	SW8270	4-NITROANILINE	0.00	MG/KG	0.2000	U	
SS	SO-SS02-SS03	SW8270	4-NITROPHENOL	0.00	MG/KG	0.1000	U	
SS	SO-SS02-SS03	SW8270	ACENAPHTHENE	0.00	MG/KG	0.1000	U	
SS	SO-SS02-SS03	SW8270	ACENAPHTHYLENE	0.00	MG/KG	0.2000	U	
SS	SO-SS02-SS03	SW8240	ACETONE	0.00	MG/KG	0.0090	U	
SS	SO-SS02-SS03	SW8270	ANTHRACENE	0.00	MG/KG	0.1000	U	
SS	SO-SS02-SS03	SW8240	BENZENE	0.00	MG/KG	0.0006	U	
SS	SO-SS02-SS03	SW8270	BENZO(a)ANTHRACENE	0.00	MG/KG	0.1000	U	
SS	SO-SS02-SS03	SW8270	BENZO(a)PYRENE	0.00	MG/KG	0.1000	U	
SS	SO-SS02-SS03	SW8270	BENZO(b)FLUORANTHENE	0.00	MG/KG	0.1000	U	
SS	SO-SS02-SS03	SW8270	BENZO(g,h,i)PERYLENE	0.00	MG/KG	0.1000	U	
SS	SO-SS02-SS03	SW8270	BENZO(k)FLUORANTHENE	0.00	MG/KG	0.1000	U	
SS	SO-SS02-SS03	SW8270	BENZOIC ACID	0.00	MG/KG	1.0000	U	
SS	SO-SS02-SS03	SW8270	BENZYL ALCOHOL	0.00	MG/KG	0.2000	U	
SS	SO-SS02-SS03	SW8270	BENZYL BUTYL PHTHALATE	0.00	MG/KG	0.1000	U	
SS	SO-SS02-SS03	SW8270	bis(2-CHLOROETHOXY) METHANE	0.00	MG/KG	0.2000	U	
SS	SO-SS02-SS03	SW8270	bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	0.00	MG/KG	0.2000	U	
SS	SO-SS02-SS03	SW8270	bis(2-CHLOROISOPROPYL) ETHER	0.00	MG/KG	0.2000	U	
SS	SO-SS02-SS03	SW8270	bis(2-ETHYLHEXYL) PHTHALATE	0.00	MG/KG	0.1000	U	
SS	SO-SS02-SS03	SW8240	BROMODICHLOROMETHANE	0.00	MG/KG	0.0003	U	
SS	SO-SS02-SS03	SW8240	BROMOFORM	0.00	MG/KG	0.0004	U	
SS	SO-SS02-SS03	SW8240	BROMOMETHANE	0.00	MG/KG	0.0009	U	
SS	SO-SS02-SS03	SW8240	CARBON DISULFIDE	0.00	MG/KG	0.0020	U	
SS	SO-SS02-SS03	SW8240	CARBON TETRACHLORIDE	0.00	MG/KG	0.0008	U	

TABLE A
Laboratory Results
Source Area SS02
Indian Mountain Long Range Radar Station

Matrix	Sample Identification	Test Method	Analyte	Value	Units	Detection Limit	Lab Qualifier	Ecological Risk
SS	SO-SS02-SS03	SW8240	CHLOROBENZENE	0.00	MG/KG	0.0004	U	
SS	SO-SS02-SS03	SW8240	CHLOROETHANE	0.00	MG/KG	0.0010	U	
SS	SO-SS02-SS03	SW8240	CHLOROFORM	0.00	MG/KG	0.0010	U	
SS	SO-SS02-SS03	SW8240	CHLOROMETHANE	0.00	MG/KG	0.0100	U	
SS	SO-SS02-SS03	SW8270	CHRYSENE	0.00	MG/KG	0.1000	U	
SS	SO-SS02-SS03	SW8240	cis-1,2-DICHLOROETHYLENE	0.00	MG/KG	0.0010	U	
SS	SO-SS02-SS03	SW8240	cis-1,3-DICHLOROPROPENE	0.00	MG/KG	0.0007	U	
SS	SO-SS02-SS03	SW8270	DI-n-BUTYL PHTHALATE	0.00	MG/KG	0.1000	U	
SS	SO-SS02-SS03	SW8270	DI-n-OCTYL PHTHALATE	0.00	MG/KG	0.1000	U	
SS	SO-SS02-SS03	SW8270	DIBENZ(a,h)ANTHRACENE	0.00	MG/KG	0.1000	U	
SS	SO-SS02-SS03	SW8270	DIBENZOFURAN	0.00	MG/KG	0.1000	U	
SS	SO-SS02-SS03	SW8240	DIBROMOCHLOROMETHANE	0.00	MG/KG	0.0007	U	
SS	SO-SS02-SS03	AK102	DIESEL RANGE ORGANICS	23.00	MG/KG	0.9000		
SS	SO-SS02-SS03	SW8270	DIETHYL PHTHALATE	0.00	MG/KG	0.2000	U	
SS	SO-SS02-SS03	SW8270	DIMETHYL PHTHALATE	0.00	MG/KG	0.2000	U	
SS	SO-SS02-SS03	SW8240	ETHYLBENZENE	0.00	MG/KG	0.0005	U	
SS	SO-SS02-SS03	SW8270	FLUORANTHENE	0.00	MG/KG	0.1000	U	
SS	SO-SS02-SS03	SW8270	FLUORENE	0.00	MG/KG	0.1000	U	
SS	SO-SS02-SS03	AK101	GASOLINE RANGE ORGANICS	0.00	MG/KG	0.0800	U	
SS	SO-SS02-SS03	SW8270	HEXACHLOROBENZENE	0.00	MG/KG	0.1000	U	
SS	SO-SS02-SS03	SW8270	HEXACHLOROBUTADIENE	0.00	MG/KG	0.2000	U	
SS	SO-SS02-SS03	SW8270	HEXACHLOROCYCLOPENTADIENE	0.00	MG/KG	0.1000	U	
SS	SO-SS02-SS03	SW8270	HEXACHLOROETHANE	0.00	MG/KG	0.2000	U	
SS	SO-SS02-SS03	SW8270	INDENO(1,2,3-c,d) PYRENE	0.00	MG/KG	0.2000	U	
SS	SO-SS02-SS03	SW8270	ISOPHORONE	0.00	MG/KG	0.2000	U	
SS	SO-SS02-SS03	SW8240	METHYL ETHYL KETONE (2-BUTANONE)	0.00	MG/KG	0.0040	U	
SS	SO-SS02-SS03	SW8240	METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	0.00	MG/KG	0.0020	U	
SS	SO-SS02-SS03	SW8240	METHYLENE CHLORIDE	0.00	MG/KG	0.0007	U	
SS	SO-SS02-SS03	SW8270	N-NITROSODI-n-PROPYLAMINE	0.00	MG/KG	0.2000	U	
SS	SO-SS02-SS03	SW8270	N-NITROSODIPHENYLAMINE	0.00	MG/KG	0.1000	U	
SS	SO-SS02-SS03	SW8270	NAPHTHALENE	0.00	MG/KG	0.2000	U	
SS	SO-SS02-SS03	SW8270	NITROBENZENE	0.00	MG/KG	0.2000	U	
SS	SO-SS02-SS03	SW8270	PENTACHLOROPHENOL	0.00	MG/KG	0.1000	U	

TABLE A
Laboratory Results
Source Area SS02
Indian Mountain Long Range Radar Station

Matrix	Sample Identification	Test Method	Analyte	Value	Units	Detection Limit	Lab Qualifier	Ecological Risk
SS	SO-SS02-SS03	SW8270	PHENANTHRENE	0.00	MG/KG	0.1000	U	
SS	SO-SS02-SS03	SW8270	PHENOL	0.00	MG/KG	0.1000	U	
SS	SO-SS02-SS03	SW8270	PYRENE	0.00	MG/KG	0.1000	U	
SS	SO-SS02-SS03	SW8240	STYRENE	0.00	MG/KG	0.0009	U	
SS	SO-SS02-SS03	SW8240	TETRACHLOROETHYLENE (PCE)	0.00	MG/KG	0.0005	U	
SS	SO-SS02-SS03	SW8240	TOLUENE	0.00	MG/KG	0.0004	U	
SS	SO-SS02-SS03	SW8240	TOTAL XYLENES	0.00	MG/KG	0.0030	U	
SS	SO-SS02-SS03	SW8240	trans-1,2-DICHLOROETHENE	0.00	MG/KG	0.0004	U	
SS	SO-SS02-SS03	SW8240	trans-1,3-DICHLOROPROPENE	0.00	MG/KG	0.0004	U	
SS	SO-SS02-SS03	SW8240	TRICHLOROETHYLENE (TCE)	0.00	MG/KG	0.0005	U	
SS	SO-SS02-SS03	SW8240	VINYL ACETATE	0.00	MG/KG	0.0010	U	
SS	SO-SS02-SS03	SW8240	VINYL CHLORIDE	0.00	MG/KG	0.0010	U	
SS	SO-SS02-SS04	SW8240	1,1,1-TRICHLOROETHANE	0.00	MG/KG	0.0006	U	
SS	SO-SS02-SS04	SW8240	1,1,2,2-TETRACHLOROETHANE	0.00	MG/KG	0.0008	U	
SS	SO-SS02-SS04	SW8240	1,1,2-TRICHLOROETHANE	0.00	MG/KG	0.0009	U	
SS	SO-SS02-SS04	SW8240	1,1-DICHLOROETHANE	0.00	MG/KG	0.0003	U	
SS	SO-SS02-SS04	SW8240	1,1-DICHLOROETHENE	0.00	MG/KG	0.0006	U	
SS	SO-SS02-SS04	SW8270	1,2,4-TRICHLOROETHENE	0.00	MG/KG	0.2000	U	
SS	SO-SS02-SS04	SW8270	1,2-DICHLOROETHENE	0.00	MG/KG	0.2000	U	
SS	SO-SS02-SS04	SW8240	1,2-DICHLOROETHANE	0.00	MG/KG	0.0008	U	
SS	SO-SS02-SS04	SW8240	1,2-DICHLOROPROPANE	0.00	MG/KG	0.0005	U	
SS	SO-SS02-SS04	SW8270	1,3-DICHLOROETHENE	0.00	MG/KG	0.2000	U	
SS	SO-SS02-SS04	SW8270	1,4-DICHLOROETHENE	0.00	MG/KG	0.2000	U	
SS	SO-SS02-SS04	SW8270	2,4,5-TRICHLOROPHENOL	0.00	MG/KG	0.2000	U	
SS	SO-SS02-SS04	SW8270	2,4,6-TRICHLOROPHENOL	0.00	MG/KG	0.2000	U	
SS	SO-SS02-SS04	SW8270	2,4-DICHLOROPHENOL	0.00	MG/KG	0.2000	U	
SS	SO-SS02-SS04	SW8270	2,4-DIMETHYLPHENOL	0.00	MG/KG	0.2000	U	
SS	SO-SS02-SS04	SW8270	2,4-DINITROPHENOL	0.00	MG/KG	0.1000	U	
SS	SO-SS02-SS04	SW8270	2,4-DINITROTOLUENE	0.00	MG/KG	0.1000	U	
SS	SO-SS02-SS04	SW8270	2,6-DINITROTOLUENE	0.00	MG/KG	0.2000	U	
SS	SO-SS02-SS04	SW8240	2-CHLOROETHYL VINYL ETHER	0.00	MG/KG	0.0009	U	
SS	SO-SS02-SS04	SW8270	2-CHLORONAPHTHALENE	0.00	MG/KG	0.2000	U	
SS	SO-SS02-SS04	SW8270	2-CHLOROPHENOL	0.00	MG/KG	0.2000	U	

TABLE A
Laboratory Results
Source Area SS02
Indian Mountain Long Range Radar Station

Matrix	Sample Identification	Test Method	Analyte	Value	Units	Detection Limit	Lab Qualifier	Ecological Risk
SS	SO-SS02-SS04	SW8240	2-HEXANONE	0.00	MG/KG	0.0030	U	
SS	SO-SS02-SS04	SW8270	2-METHYLNAPHTHALENE	0.00	MG/KG	0.2000	U	
SS	SO-SS02-SS04	SW8270	2-METHYLPHENOL (o-CRESOL)	0.00	MG/KG	0.2000	U	
SS	SO-SS02-SS04	SW8270	2-NITROANILINE	0.00	MG/KG	0.2000	U	
SS	SO-SS02-SS04	SW8270	2-NITROPHENOL	0.00	MG/KG	0.2000	U	
SS	SO-SS02-SS04	SW8270	3,3'-DICHLOROBENZIDINE	0.00	MG/KG	0.1000	U	
SS	SO-SS02-SS04	SW8270	3-NITROANILINE	0.00	MG/KG	0.2000	U	
SS	SO-SS02-SS04	SW8270	4,6-DINITRO-2-METHYLPHENOL	0.00	MG/KG	0.2000	U	
SS	SO-SS02-SS04	SW8270	4-BROMOPHENYL PHENYL ETHER	0.00	MG/KG	0.1000	U	
SS	SO-SS02-SS04	SW8270	4-CHLORO-3-METHYLPHENOL	0.00	MG/KG	0.2000	U	
SS	SO-SS02-SS04	SW8270	4-CHLOROANILINE	0.00	MG/KG	0.2000	U	
SS	SO-SS02-SS04	SW8270	4-CHLOROPHENYL PHENYL ETHER	0.00	MG/KG	0.1000	U	
SS	SO-SS02-SS04	SW8270	4-METHYLPHENOL (p-CRESOL)	0.00	MG/KG	0.3000	U	
SS	SO-SS02-SS04	SW8270	4-NITROANILINE	0.00	MG/KG	0.2000	U	
SS	SO-SS02-SS04	SW8270	4-NITROPHENOL	0.00	MG/KG	0.1000	U	
SS	SO-SS02-SS04	SW8270	ACENAPHTHENE	0.00	MG/KG	0.1000	U	
SS	SO-SS02-SS04	SW8270	ACENAPHTHYLENE	0.00	MG/KG	0.2000	U	
SS	SO-SS02-SS04	SW8240	ACETONE	0.00	MG/KG	0.0090	U	
SS	SO-SS02-SS04	SW8270	ANTHRACENE	0.00	MG/KG	0.1000	U	
SS	SO-SS02-SS04	SW8240	BENZENE	0.00	MG/KG	0.0006	U	
SS	SO-SS02-SS04	SW8270	BENZO(a)ANTHRACENE	0.00	MG/KG	0.1000	U	
SS	SO-SS02-SS04	SW8270	BENZO(a)PYRENE	0.00	MG/KG	0.1000	U	
SS	SO-SS02-SS04	SW8270	BENZO(b)FLUORANTHENE	0.00	MG/KG	0.1000	U	
SS	SO-SS02-SS04	SW8270	BENZO(g,h,i)PERYLENE	0.00	MG/KG	0.1000	U	
SS	SO-SS02-SS04	SW8270	BENZO(k)FLUORANTHENE	0.00	MG/KG	0.1000	U	
SS	SO-SS02-SS04	SW8270	BENZOIC ACID	0.00	MG/KG	1.0000	U	
SS	SO-SS02-SS04	SW8270	BENZYL ALCOHOL	0.00	MG/KG	0.2000	U	
SS	SO-SS02-SS04	SW8270	BENZYL BUTYL PHTHALATE	0.00	MG/KG	0.1000	U	
SS	SO-SS02-SS04	SW8270	bis(2-CHLOROETHOXY) METHANE	0.00	MG/KG	0.2000	U	
SS	SO-SS02-SS04	SW8270	bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	0.00	MG/KG	0.2000	U	
SS	SO-SS02-SS04	SW8270	bis(2-CHLOROISOPROPYL) ETHER	0.00	MG/KG	0.2000	U	
SS	SO-SS02-SS04	SW8270	bis(2-ETHYLHEXYL) PHTHALATE	0.00	MG/KG	0.1000	U	
SS	SO-SS02-SS04	SW8240	BROMODICHLOROMETHANE	0.00	MG/KG	0.0003	U	

TABLE A
Laboratory Results
Source Area SS02
Indian Mountain Long Range Radar Station

Matrix	Sample Identification	Test Method	Analyte	Value	Units	Detection Limit	Lab Qualifier	Ecological Risk
SS	SO-SS02-SS04	SW8240	BROMOFORM	0.00	MG/KG	0.0004	U	
SS	SO-SS02-SS04	SW8240	BROMOMETHANE	0.00	MG/KG	0.0009	U	
SS	SO-SS02-SS04	SW8240	CARBON DISULFIDE	0.00	MG/KG	0.0020	U	
SS	SO-SS02-SS04	SW8240	CARBON TETRACHLORIDE	0.00	MG/KG	0.0008	U	
SS	SO-SS02-SS04	SW8240	CHLOROBENZENE	0.00	MG/KG	0.0004	U	
SS	SO-SS02-SS04	SW8240	CHLOROETHANE	0.00	MG/KG	0.0010	U	
SS	SO-SS02-SS04	SW8240	CHLOROFORM	0.00	MG/KG	0.0010	U	
SS	SO-SS02-SS04	SW8240	CHLOROMETHANE	0.00	MG/KG	0.0009	U	
SS	SO-SS02-SS04	SW8270	CHRYSENE	0.00	MG/KG	0.1000	U	
SS	SO-SS02-SS04	SW8240	cis-1,2-DICHLOROETHYLENE	0.00	MG/KG	0.0010	U	
SS	SO-SS02-SS04	SW8240	cis-1,3-DICHLOROPROPENE	0.00	MG/KG	0.0007	U	
SS	SO-SS02-SS04	SW8270	DI-n-BUTYL PHTHALATE	0.00	MG/KG	0.1000	U	
SS	SO-SS02-SS04	SW8270	DI-n-OCTYL PHTHALATE	0.00	MG/KG	0.1000	U	
SS	SO-SS02-SS04	SW8270	DIBENZ(a,h)ANTHRACENE	0.00	MG/KG	0.1000	U	
SS	SO-SS02-SS04	SW8270	DIBENZOFURAN	0.00	MG/KG	0.1000	U	
SS	SO-SS02-SS04	SW8240	DIBROMOCHLOROMETHANE	0.00	MG/KG	0.0007	U	
SS	SO-SS02-SS04	AK102	DIESEL RANGE ORGANICS	0.00	MG/KG	0.9000	U	
SS	SO-SS02-SS04	SW8270	DIETHYL PHTHALATE	0.00	MG/KG	0.2000	U	
SS	SO-SS02-SS04	SW8270	DIMETHYL PHTHALATE	0.00	MG/KG	0.2000	U	
SS	SO-SS02-SS04	SW8240	ETHYLBENZENE	0.00	MG/KG	0.0005	U	
SS	SO-SS02-SS04	SW8270	FLUORANTHENE	0.00	MG/KG	0.1000	U	
SS	SO-SS02-SS04	SW8270	FLUORENE	0.00	MG/KG	0.1000	U	
SS	SO-SS02-SS04	AK101	GASOLINE RANGE ORGANICS	0.00	MG/KG	0.0800	U	
SS	SO-SS02-SS04	SW8270	HEXACHLOROBENZENE	0.00	MG/KG	0.1000	U	
SS	SO-SS02-SS04	SW8270	HEXACHLOROBUTADIENE	0.00	MG/KG	0.2000	U	
SS	SO-SS02-SS04	SW8270	HEXACHLOROCYCLOPENTADIENE	0.00	MG/KG	0.1000	U	
SS	SO-SS02-SS04	SW8270	HEXACHLOROETHANE	0.00	MG/KG	0.2000	U	
SS	SO-SS02-SS04	SW8270	INDENO(1,2,3-c,d) PYRENE	0.00	MG/KG	0.2000	U	
SS	SO-SS02-SS04	SW8270	ISOPHORONE	0.00	MG/KG	0.2000	U	
SS	SO-SS02-SS04	SW8240	METHYL ETHYL KETONE (2-BUTANONE)	0.00	MG/KG	0.0040	U	
SS	SO-SS02-SS04	SW8240	METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	0.00	MG/KG	0.0020	U	
SS	SO-SS02-SS04	SW8240	METHYLENE CHLORIDE	0.00	MG/KG	0.0007	U	
SS	SO-SS02-SS04	SW8270	N-NITROSODI-n-PROPYLAMINE	0.00	MG/KG	0.2000	U	

TABLE A
Laboratory Results
Source Area SS02
Indian Mountain Long Range Radar Station

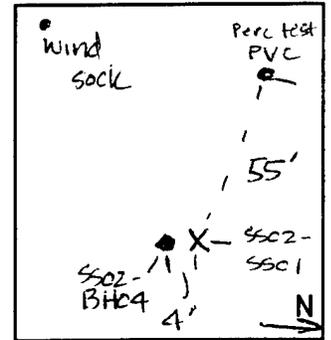
Matrix	Sample Identification	Test Method	Analyte	Value	Units	Detection Limit	Lab Qualifier	Ecological Risk
SS	SO-SS02-SS04	SW8270	N-NITROSODIPHENYLAMINE	0.00	MG/KG	0.1000	U	
SS	SO-SS02-SS04	SW8270	NAPHTHALENE	0.00	MG/KG	0.2000	U	
SS	SO-SS02-SS04	SW8270	NITROBENZENE	0.00	MG/KG	0.2000	U	
SS	SO-SS02-SS04	SW8270	PENTACHLOROPHENOL	0.00	MG/KG	0.1000	U	
SS	SO-SS02-SS04	SW8270	PHENANTHRENE	0.00	MG/KG	0.1000	U	
SS	SO-SS02-SS04	SW8270	PHENOL	0.00	MG/KG	0.1000	U	
SS	SO-SS02-SS04	SW8270	PYRENE	0.00	MG/KG	0.1000	U	
SS	SO-SS02-SS04	SW8240	STYRENE	0.00	MG/KG	0.0009	U	
SS	SO-SS02-SS04	SW8240	TETRACHLOROETHYLENE (PCE)	0.00	MG/KG	0.0005	U	
SS	SO-SS02-SS04	SW8240	TOLUENE	0.00	MG/KG	0.0004	J	
SS	SO-SS02-SS04	SW8240	TOTAL XYLENES	0.00	MG/KG	0.0030	J	
SS	SO-SS02-SS04	SW8240	trans-1,2-DICHLOROETHENE	0.00	MG/KG	0.0004	U	
SS	SO-SS02-SS04	SW8240	trans-1,3-DICHLOROPROPENE	0.00	MG/KG	0.0004	U	
SS	SO-SS02-SS04	SW8240	TRICHLOROETHYLENE (TCE)	0.00	MG/KG	0.0005	U	
SS	SO-SS02-SS04	SW8240	VINYL ACETATE	0.00	MG/KG	0.0010	U	
SS	SO-SS02-SS04	SW8240	VINYL CHLORIDE	0.00	MG/KG	0.0010	U	

Notes:

- J = estimated
- MG/KG = milligrams per kilogram
- NO1 = laboratory contaminant
- SS = surface soil
- U = undetected (analyzed for but undetected)

SURFACE AND SUBSURFACE SOIL SAMPLING FIELD DATA FORM

PROJECT NAME: INDIAN MOUNTAIN LRRS
 PROJECT NUMBER: 05G46200
 SITE ID: LDC ID 5502-5501
 SAMPLE ID: 50-5502-5501 LOT CONTROL NO. A1014
 DATE: 8/8/95 TIME: 1140
 WEATHER: overcast, 60°F
 FIELD SAMPLING TEAM: S. Brown, R. Henry
 SAMPLING LOCATION:



btw 5502-BH04 and percolation test pipe

COMPOSITE: YES/NO COMPOSITE DESCRIPTION: _____

DEPTH OF SAMPLING INTERVAL: 0-1" VOLUME COLLECTED: 2 8 oz jars for
 HEADSPACE READINGS: 0 ppm/background VOC, SVOC, DRO & GRO

DESCRIPTION OF SOIL MATERIALS:
light brown, fine-grained silty soil with gravel. lack of vegetation

2 8 oz jars filled for VOC, SVOC, GRO, DRO analyses

FIELD TEST KIT SCREENING TPH: _____ PCB: _____

SAMPLE IDS:	RESULTS:

DATE AND TIME OF TEST KIT SCREENING _____

COMPLETED BY:
Sarah Brown Sarah Brown 8/8/95
 PRINT NAME SIGNATURE DATE

CHECKED BY:

 PRINT NAME SIGNATURE DATE

SURFACE AND SUBSURFACE SOIL SAMPLING FIELD DATA FORM

PROJECT NAME: INDIAN MOUNTAIN LRRS

PROJECT NUMBER: 05G46200 ^{SB}

SITE ID: LOC ID SS02-45072

SAMPLE ID: SO-4507-45072 ^{SB}

DATE: 8/8/95

WEATHER: cloudy, 60°F

FIELD SAMPLING TEAM: S. Brown, R. Henry

SAMPLING LOCATION:

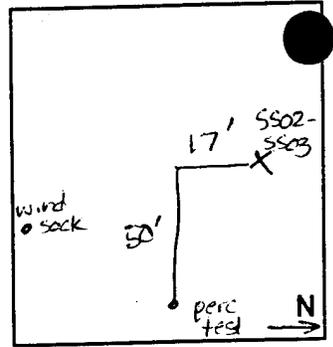
NW of percolation test pipe

LOT CONTROL NO. A1015 SB

~~A1016 SB~~

TIME: ~~12:05 PM~~ 12:01

A1016



COMPOSITE: YES NO COMPOSITE DESCRIPTION: _____

DEPTH OF SAMPLING INTERVAL: 0-1" VOLUME COLLECTED: 2 8oz jars for

HEADSPACE READINGS: _____ VOCs, SVOCs, DRO, G120

DESCRIPTION OF SOIL MATERIALS:
medium brown, silty soil with gravel. no vegetation

2 8oz jars collected for VOC, SVOC, G120, DRO

FIELD TEST KIT SCREENING TPH: _____ PCB: _____

SAMPLE IDS:	RESULTS:

DATE AND TIME OF TEST KIT SCREENING _____

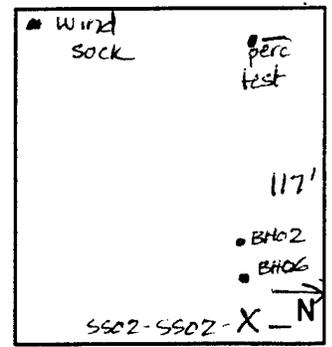
COMPLETED BY:
Sarah Brown Sarah Brown 8/8/95
 PRINT NAME SIGNATURE DATE

CHECKED BY:

 PRINT NAME SIGNATURE DATE

SURFACE AND SUBSURFACE SOIL SAMPLING FIELD DATA FORM

PROJECT NAME: INDIAN MOUNTAIN LRRS
 PROJECT NUMBER: 05G46200
 SITE ID: LOC ID SS02-SS02³ SB
 SAMPLE ID: 50-SS02-SS02³ LOT CONTROL NO. A1015
 DATE: 8/8/95 TIME: 1149
 WEATHER: cloudy 60° F
 FIELD SAMPLING TEAM: S. Brown, R. Henry
 SAMPLING LOCATION:



6' east of SS02-BHO6, 117' east of percolation test pipe

COMPOSITE: YES (circled) COMPOSITE DESCRIPTION: _____

DEPTH OF SAMPLING INTERVAL: 0-1" VOLUME COLLECTED: 2 8 oz jars for
 HEADSPACE READINGS: background VOCs, SVOCs, GRC, DRC

DESCRIPTION OF SOIL MATERIALS:
light brown, fine grained, silty soil, less gravelly than SS01.
Area is disturbed from previous disturbance, limited/no vegetation
2 8 oz jars collected for ^{SB}VOC, SVOC, GRC, DRC

FIELD TEST KIT SCREENING TPH: _____ PCB: _____

SAMPLE IDS:	RESULTS:

DATE AND TIME OF TEST KIT SCREENING _____

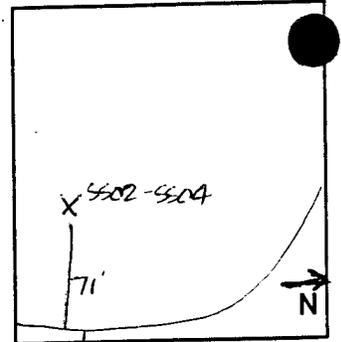
COMPLETED BY:
Sarah Brown Sarah Brown 8/8/95
 PRINT NAME SIGNATURE DATE

CHECKED BY:

 PRINT NAME SIGNATURE DATE

SURFACE AND SUBSURFACE SOIL SAMPLING FIELD DATA FORM

PROJECT NAME: INDIAN MOUNTAIN LRRS
 PROJECT NUMBER: 05G46200
 SITE ID: LOC ID 5502-5504
 SAMPLE ID: 50-5502-5504 LOT CONTROL NO. A1017
 DATE: 8/8/95 TIME: 1210
 WEATHER: overcast 60°F
 FIELD SAMPLING TEAM: S. Brown, R. Henry
 SAMPLING LOCATION: _____



71' west of ditch adjacent to road

COMPOSITE: YES COMPOSITE DESCRIPTION: _____

DEPTH OF SAMPLING INTERVAL: 0-1" VOLUME COLLECTED: 2.8 oz for
 HEADSPACE READINGS: background VOCs, SVOCs, GRO, DRO

DESCRIPTION OF SOIL MATERIALS:
mid/light brown, fine grained, silty w/gravel. No vegetation

2.8 oz jars collected for VOC, SVOC, GRO, DRO

FIELD TEST KIT SCREENING TPH: _____ PCB: _____

SAMPLE IDS:	RESULTS:

DATE AND TIME OF TEST KIT SCREENING _____

COMPLETED BY:
Sarah Brown Sarah Brown 8/8/95
 PRINT NAME SIGNATURE DATE

CHECKED BY:

 PRINT NAME SIGNATURE DATE

APPENDIX B
OT08 LABORATORY RESULTS
OT08 SAMPLING FORMS

TABLE B
Laboratory Results
Source Area OT08
Indian Mountain Long Range Radar Station

Matrix	Sample Identification	Test Method	Sample Depth (ft)	Analyte	Value	Units	Detection Limit	Lab Qualifier
SO	SO-OT08-SB03	SW8080	4.50	PCB-1016 (AROCLOR 1016)	0.00	MG/KG	0.0400	U
SO	SO-OT08-SB03	SW8080	4.50	PCB-1221 (AROCLOR 1221)	0.00	MG/KG	0.0400	U
SO	SO-OT08-SB03	SW8080	4.50	PCB-1232 (AROCLOR 1232)	0.00	MG/KG	0.0200	U
SO	SO-OT08-SB03	SW8080	4.50	PCB-1242 (AROCLOR 1242)	0.00	MG/KG	0.0400	U
SO	SO-OT08-SB03	SW8080	4.50	PCB-1248 (AROCLOR 1248)	0.00	MG/KG	0.0200	U
SO	SO-OT08-SB03	SW8080	4.50	PCB-1254 (AROCLOR 1254)	0.00	MG/KG	0.0200	U
SO	SO-OT08-SB03	SW8080	4.50	PCB-1260 (AROCLOR 1260)	0.00	MG/KG	0.0080	U
SO	SO-OT08-SB04	SW8080	2.50	PCB-1016 (AROCLOR 1016)	0.00	MG/KG	0.0300	U
SO	SO-OT08-SB04	SW8080	2.50	PCB-1221 (AROCLOR 1221)	0.00	MG/KG	0.0300	U
SO	SO-OT08-SB04	SW8080	2.50	PCB-1232 (AROCLOR 1232)	0.00	MG/KG	0.0200	U
SO	SO-OT08-SB04	SW8080	2.50	PCB-1242 (AROCLOR 1242)	0.00	MG/KG	0.0300	U
SO	SO-OT08-SB04	SW8080	2.50	PCB-1248 (AROCLOR 1248)	0.00	MG/KG	0.0200	U
SO	SO-OT08-SB04	SW8080	2.50	PCB-1254 (AROCLOR 1254)	0.00	MG/KG	0.0200	U
SO	SO-OT08-SB04	SW8080	2.50	PCB-1260 (AROCLOR 1260)	0.00	MG/KG	0.0080	U
SO	SO-OT08-SB05	SW8080	2.50	PCB-1016 (AROCLOR 1016)	0.00	MG/KG	0.0300	U
SO	SO-OT08-SB05	SW8080	2.50	PCB-1016 (AROCLOR 1016)	0.00	MG/KG	0.0300	U
SO	SO-OT08-SB05	SW8080	2.50	PCB-1016 (AROCLOR 1016)	0.00	MG/KG	0.0300	U
SO	SO-OT08-SB05	SW8080	2.50	PCB-1221 (AROCLOR 1221)	0.00	MG/KG	0.0300	U
SO	SO-OT08-SB05	SW8080	2.50	PCB-1221 (AROCLOR 1221)	0.00	MG/KG	0.0300	U
SO	SO-OT08-SB05	SW8080	2.50	PCB-1232 (AROCLOR 1232)	0.00	MG/KG	0.0200	U
SO	SO-OT08-SB05	SW8080	2.50	PCB-1232 (AROCLOR 1232)	0.00	MG/KG	0.0200	U
SO	SO-OT08-SB05	SW8080	2.50	PCB-1232 (AROCLOR 1232)	0.00	MG/KG	0.0200	U
SO	SO-OT08-SB05	SW8080	2.50	PCB-1242 (AROCLOR 1242)	0.00	MG/KG	0.0300	U
SO	SO-OT08-SB05	SW8080	2.50	PCB-1242 (AROCLOR 1242)	0.00	MG/KG	0.0300	U
SO	SO-OT08-SB05	SW8080	2.50	PCB-1242 (AROCLOR 1242)	0.00	MG/KG	0.0300	U
SO	SO-OT08-SB05	SW8080	2.50	PCB-1248 (AROCLOR 1248)	0.00	MG/KG	0.0200	U
SO	SO-OT08-SB05	SW8080	2.50	PCB-1248 (AROCLOR 1248)	0.00	MG/KG	0.0200	U
SO	SO-OT08-SB05	SW8080	2.50	PCB-1248 (AROCLOR 1248)	0.00	MG/KG	0.0200	U
SO	SO-OT08-SB05	SW8080	2.50	PCB-1254 (AROCLOR 1254)	0.00	MG/KG	0.0200	U
SO	SO-OT08-SB05	SW8080	2.50	PCB-1254 (AROCLOR 1254)	0.00	MG/KG	0.0200	U
SO	SO-OT08-SB05	SW8080	2.50	PCB-1254 (AROCLOR 1254)	0.00	MG/KG	0.0200	U
SO	SO-OT08-SB05	SW8080	2.50	PCB-1260 (AROCLOR 1260)	0.04	MG/KG	0.0080	J
SO	SO-OT08-SB05	SW8080	2.50	PCB-1260 (AROCLOR 1260)	0.04	MG/KG	0.0080	J
SO	SO-OT08-SB05	SW8080	2.50	PCB-1260 (AROCLOR 1260)	0.04	MG/KG	0.0080	J

TABLE B
Laboratory Results
Source Area OT08
Indian Mountain Long Range Radar Station

Matrix	Sample Identification	Test Method	Sample Depth (ft)	Analyte	Value	Units	Detection Limit	Lab Qualifier
SO	SO-OT08-SB06	SW8080	2.50	PCB-1016 (AROCLOR 1016)	0.00	MG/KG	0.0400	U
SO	SO-OT08-SB06	SW8080	2.50	PCB-1221 (AROCLOR 1221)	0.00	MG/KG	0.0400	U
SO	SO-OT08-SB06	SW8080	2.50	PCB-1232 (AROCLOR 1232)	0.00	MG/KG	0.0300	U
SO	SO-OT08-SB06	SW8080	2.50	PCB-1242 (AROCLOR 1242)	0.00	MG/KG	0.0400	U
SO	SO-OT08-SB06	SW8080	2.50	PCB-1248 (AROCLOR 1248)	0.00	MG/KG	0.0300	U
SO	SO-OT08-SB06	SW8080	2.50	PCB-1254 (AROCLOR 1254)	0.00	MG/KG	0.0300	U
SO	SO-OT08-SB06	SW8080	2.50	PCB-1260 (AROCLOR 1260)	0.00	MG/KG	0.0090	U
SO	SO-OT08-SS08	SW8080	0.50	PCB-1016 (AROCLOR 1016)	0.00	MG/KG	0.0400	U
SO	SO-OT08-SS08	SW8080	0.50	PCB-1016 (AROCLOR 1016)	0.00	MG/KG	0.0400	U
SO	SO-OT08-SS08	SW8080	0.50	PCB-1221 (AROCLOR 1221)	0.00	MG/KG	0.0400	U
SO	SO-OT08-SS08	SW8080	0.50	PCB-1221 (AROCLOR 1221)	0.00	MG/KG	0.0400	U
SO	SO-OT08-SS08	SW8080	0.50	PCB-1221 (AROCLOR 1221)	0.00	MG/KG	0.0400	U
SO	SO-OT08-SS08	SW8080	0.50	PCB-1232 (AROCLOR 1232)	0.00	MG/KG	0.0200	U
SO	SO-OT08-SS08	SW8080	0.50	PCB-1232 (AROCLOR 1232)	0.00	MG/KG	0.0200	U
SO	SO-OT08-SS08	SW8080	0.50	PCB-1232 (AROCLOR 1232)	0.00	MG/KG	0.0200	U
SO	SO-OT08-SS08	SW8080	0.50	PCB-1242 (AROCLOR 1242)	0.00	MG/KG	0.0400	U
SO	SO-OT08-SS08	SW8080	0.50	PCB-1242 (AROCLOR 1242)	0.00	MG/KG	0.0400	U
SO	SO-OT08-SS08	SW8080	0.50	PCB-1242 (AROCLOR 1242)	0.00	MG/KG	0.0400	U
SO	SO-OT08-SS08	SW8080	0.50	PCB-1248 (AROCLOR 1248)	0.00	MG/KG	0.0200	U
SO	SO-OT08-SS08	SW8080	0.50	PCB-1248 (AROCLOR 1248)	0.00	MG/KG	0.0200	U
SO	SO-OT08-SS08	SW8080	0.50	PCB-1248 (AROCLOR 1248)	0.00	MG/KG	0.0200	U
SO	SO-OT08-SS08	SW8080	0.50	PCB-1254 (AROCLOR 1254)	0.00	MG/KG	0.0200	U
SO	SO-OT08-SS08	SW8080	0.50	PCB-1254 (AROCLOR 1254)	0.00	MG/KG	0.0200	U
SO	SO-OT08-SS08	SW8080	0.50	PCB-1254 (AROCLOR 1254)	0.00	MG/KG	0.0200	U
SO	SO-OT08-SS08	SW8080	0.50	PCB-1260 (AROCLOR 1260)	0.09	MG/KG	0.0090	J
SO	SO-OT08-SS08	SW8080	0.50	PCB-1260 (AROCLOR 1260)	0.10	MG/KG	0.0090	J
SO	SO-OT08-SS08	SW8080	0.50	PCB-1260 (AROCLOR 1260)	0.10	MG/KG	0.0090	J
SO	SO-OT08-SS10	SW8080	0.50	PCB-1016 (AROCLOR 1016)	0.00	MG/KG	0.0400	U
SO	SO-OT08-SS10	SW8080	0.50	PCB-1016 (AROCLOR 1016)	0.00	MG/KG	0.0400	U
SO	SO-OT08-SS10	SW8080	0.50	PCB-1016 (AROCLOR 1016)	0.00	MG/KG	0.0400	U
SO	SO-OT08-SS10	SW8080	0.50	PCB-1221 (AROCLOR 1221)	0.00	MG/KG	0.0400	U
SO	SO-OT08-SS10	SW8080	0.50	PCB-1221 (AROCLOR 1221)	0.00	MG/KG	0.0400	U
SO	SO-OT08-SS10	SW8080	0.50	PCB-1221 (AROCLOR 1221)	0.00	MG/KG	0.0400	U
SO	SO-OT08-SS10	SW8080	0.50	PCB-1232 (AROCLOR 1232)	0.00	MG/KG	0.0200	U

TABLE B
Laboratory Results
Source Area OT08
Indian Mountain Long Range Radar Station

Matrix	Sample Identification	Test Method	Sample Depth (ft)	Analyte	Value	Units	Detection Limit	Lab Qualifier
SO	SO-OT08-SS10	SW8080	0.50	PCB-1232 (AROCLOR 1232)	0.00	MG/KG	0.0200	U
SO	SO-OT08-SS10	SW8080	0.50	PCB-1232 (AROCLOR 1232)	0.00	MG/KG	0.0200	U
SO	SO-OT08-SS10	SW8080	0.50	PCB-1242 (AROCLOR 1242)	0.00	MG/KG	0.0400	U
SO	SO-OT08-SS10	SW8080	0.50	PCB-1242 (AROCLOR 1242)	0.00	MG/KG	0.0400	U
SO	SO-OT08-SS10	SW8080	0.50	PCB-1242 (AROCLOR 1242)	0.00	MG/KG	0.0400	U
SO	SO-OT08-SS10	SW8080	0.50	PCB-1248 (AROCLOR 1248)	0.00	MG/KG	0.0200	U
SO	SO-OT08-SS10	SW8080	0.50	PCB-1248 (AROCLOR 1248)	0.00	MG/KG	0.0200	U
SO	SO-OT08-SS10	SW8080	0.50	PCB-1248 (AROCLOR 1248)	0.00	MG/KG	0.0200	U
SO	SO-OT08-SS10	SW8080	0.50	PCB-1254 (AROCLOR 1254)	0.00	MG/KG	0.0200	U
SO	SO-OT08-SS10	SW8080	0.50	PCB-1254 (AROCLOR 1254)	0.00	MG/KG	0.0200	U
SO	SO-OT08-SS10	SW8080	0.50	PCB-1254 (AROCLOR 1254)	0.00	MG/KG	0.0200	U
SO	SO-OT08-SS10	SW8080	0.50	PCB-1260 (AROCLOR 1260)	0.00	MG/KG	0.0080	U
SO	SO-OT08-SS10	SW8080	0.50	PCB-1260 (AROCLOR 1260)	0.00	MG/KG	0.0080	U
SO	SO-OT08-SS10	SW8080	0.50	PCB-1260 (AROCLOR 1260)	0.00	MG/KG	0.0080	U
SO	SO-OT08-SS12	SW8080	0.50	PCB-1016 (AROCLOR 1016)	0.00	MG/KG	0.0400	U
SO	SO-OT08-SS12	SW8080	0.50	PCB-1016 (AROCLOR 1016)	0.00	MG/KG	0.0400	U
SO	SO-OT08-SS12	SW8080	0.50	PCB-1016 (AROCLOR 1016)	0.00	MG/KG	0.0400	U
SO	SO-OT08-SS12	SW8080	0.50	PCB-1221 (AROCLOR 1221)	0.00	MG/KG	0.0400	U
SO	SO-OT08-SS12	SW8080	0.50	PCB-1221 (AROCLOR 1221)	0.00	MG/KG	0.0400	U
SO	SO-OT08-SS12	SW8080	0.50	PCB-1221 (AROCLOR 1221)	0.00	MG/KG	0.0400	U
SO	SO-OT08-SS12	SW8080	0.50	PCB-1232 (AROCLOR 1232)	0.00	MG/KG	0.0200	U
SO	SO-OT08-SS12	SW8080	0.50	PCB-1232 (AROCLOR 1232)	0.00	MG/KG	0.0200	U
SO	SO-OT08-SS12	SW8080	0.50	PCB-1232 (AROCLOR 1232)	0.00	MG/KG	0.0200	U
SO	SO-OT08-SS12	SW8080	0.50	PCB-1242 (AROCLOR 1242)	0.00	MG/KG	0.0400	U
SO	SO-OT08-SS12	SW8080	0.50	PCB-1242 (AROCLOR 1242)	0.00	MG/KG	0.0400	U
SO	SO-OT08-SS12	SW8080	0.50	PCB-1242 (AROCLOR 1242)	0.00	MG/KG	0.0400	U
SO	SO-OT08-SS12	SW8080	0.50	PCB-1248 (AROCLOR 1248)	0.00	MG/KG	0.0200	U
SO	SO-OT08-SS12	SW8080	0.50	PCB-1248 (AROCLOR 1248)	0.00	MG/KG	0.0200	U
SO	SO-OT08-SS12	SW8080	0.50	PCB-1248 (AROCLOR 1248)	0.00	MG/KG	0.0200	U
SO	SO-OT08-SS12	SW8080	0.50	PCB-1254 (AROCLOR 1254)	0.00	MG/KG	0.0200	U
SO	SO-OT08-SS12	SW8080	0.50	PCB-1254 (AROCLOR 1254)	0.00	MG/KG	0.0200	U
SO	SO-OT08-SS12	SW8080	0.50	PCB-1254 (AROCLOR 1254)	0.00	MG/KG	0.0200	U
SO	SO-OT08-SS12	SW8080	0.50	PCB-1260 (AROCLOR 1260)	0.00	MG/KG	0.0090	J
SO	SO-OT08-SS12	SW8080	0.50	PCB-1260 (AROCLOR 1260)	0.19	MG/KG	0.0090	J
SO	SO-OT08-SS12	SW8080	0.50	PCB-1260 (AROCLOR 1260)	0.20	MG/KG	0.0090	J

TABLE B
Laboratory Results
Source Area OT08
Indian Mountain Long Range Radar Station

Matrix	Sample Identification	Test Method	Sample Depth (ft)	Analyte	Value	Units	Detection Limit	Lab Qualifier
SO	SO-OT08-SS13	SW8080	0.50	PCB-1016 (AROCLOR 1016)	0.00	MG/KG	0.0400	U
SO	SO-OT08-SS13	SW8080	0.50	PCB-1221 (AROCLOR 1221)	0.00	MG/KG	0.0400	U
SO	SO-OT08-SS13	SW8080	0.50	PCB-1232 (AROCLOR 1232)	0.00	MG/KG	0.0300	U
SO	SO-OT08-SS13	SW8080	0.50	PCB-1242 (AROCLOR 1242)	0.00	MG/KG	0.0400	U
SO	SO-OT08-SS13	SW8080	0.50	PCB-1248 (AROCLOR 1248)	0.00	MG/KG	0.0300	U
SO	SO-OT08-SS13	SW8080	0.50	PCB-1254 (AROCLOR 1254)	0.00	MG/KG	0.0300	U
SO	SO-OT08-SS13	SW8080	0.50	PCB-1260 (AROCLOR 1260)	0.00	MG/KG	0.0090	U
SS	SO-OT08-SB12	SW9081	0.05	CATION-EXCHANGE CAPACITY	32.00	MEQ/100G	5.0000	
SS	SO-OT08-SB12	SWD422	0.05	CLAY PERCENT	4.00	%		
SO	SO-OT08-SB12	D2216	0.05	PERCENT MOISTURE	7.70	PERCENT	0.0000	
SS	SO-OT08-SB12	SWD5084	0.05	PERMEABILITY	3.4E-06	CM/SEC		
SS	SO-OT08-SB12	SWD422	0.05	SAND PERCENT	9.00	%		
SS	SO-OT08-SB12	SWD422	0.05	SILT PERCENT	13.00	%		
SO	SO-OT08-SB12	D2487	0.05	SOIL CLASSIFICATION	BSG	N/A	N/A	
SO	SO-OT08-SB12	D854	0.05	SPECIFIC GRAVITY	2.75	MG/KG	0.0000	
SS	SO-OT08-SB12	SW9060	0.05	TOTAL ORGANIC CARBON	480.00	MG/KG	22.0000	
SS	SO-OT08-SB12	SW9060	0.05	TOTAL ORGANIC CARBON	600.00	MG/KG	22.0000	
SS	SO-OT08-SB12	SW9060	0.05	TOTAL ORGANIC CARBON	440.00	MG/KG	22.0000	
SS	SO-OT08-SB12	SW9060	0.05	TOTAL ORGANIC CARBON	430.00	MG/KG	22.0000	
SS	SO-OT08-SB12	SW9060	0.05	TOTAL ORGANIC CARBON	440.00	MG/KG	22.0000	
SS	SO-OT08-SB13	SW9081	0.05	CATION-EXCHANGE CAPACITY	30.00	MEQ/100G	5.0000	
SS	SO-OT08-SB13	SWD422	0.05	CLAY PERCENT	4.00	%		
SO	SO-OT08-SB13	D2216	0.05	PERCENT MOISTURE	26.00	PERCENT	0.0000	
SS	SO-OT08-SB13	SWD5084	0.05	PERMEABILITY	7.3E-07	CM/SEC		
SS	SO-OT08-SB13	SWD422	0.05	SAND PERCENT	11.00	%		
SS	SO-OT08-SB13	SWD422	0.05	SILT PERCENT	14.00	%		
SO	SO-OT08-SB13	D2487	0.05	SOIL CLASSIFICATION	BSG/S	N/A	N/A	
SO	SO-OT08-SB13	D854	0.05	SPECIFIC GRAVITY	2.72	MG/KG	0.0000	
SS	SO-OT08-SB13	SW9060	0.05	TOTAL ORGANIC CARBON	500.00	MG/KG	27.0000	
SS	SO-OT08-SB13	SW9060	0.05	TOTAL ORGANIC CARBON	500.00	MG/KG	27.0000	
SS	SO-OT08-SB13	SW9060	0.05	TOTAL ORGANIC CARBON	490.00	MG/KG	27.0000	
SS	SO-OT08-SB13	SW9060	0.05	TOTAL ORGANIC CARBON	510.00	MG/KG	27.0000	
SS	SO-OT08-SB13	SW9060	0.05	TOTAL ORGANIC CARBON	510.00	MG/KG	27.0000	
SS	SO-OT08-SB14	SW9081	0.05	CATION-EXCHANGE CAPACITY	35.00	MEQ/100G	5.0000	
SS	SO-OT08-SB14	SWD422	0.05	CLAY PERCENT	5.00	%		

TABLE B
Laboratory Results
Source Area OT08
Indian Mountain Long Range Radar Station

Matrix	Sample Identification	Test Method	Sample Depth (ft)	Analyte	Value	Units	Detection Limit	Lab Qualifier
SO	SO-OT08-SB14	D2216	0.05	PERCENT MOISTURE	16.00	PERCENT	0.0000	
SS	SO-OT08-SB14	SWD5084	0.05	PERMEABILITY	NA	CM/SEC		
SS	SO-OT08-SB14	SWD422	0.05	SAND PERCENT	15.00	%		
SS	SO-OT08-SB14	SWD422	0.05	SILT PERCENT	31.00	%		
SO	SO-OT08-SB14	D2487	0.05	SOIL CLASSIFICATION	BSS/G	N/A	N/A	
SO	SO-OT08-SB14	D854	0.05	SPECIFIC GRAVITY	2.70	MG/KG	0.0000	
SS	SO-OT08-SB14	SW9060	0.05	TOTAL ORGANIC CARBON	450.00	MG/KG	10.0000	
SS	SO-OT08-SB14	SW9060	0.05	TOTAL ORGANIC CARBON	500.00	MG/KG	10.0000	
SS	SO-OT08-SB14	SW9060	0.05	TOTAL ORGANIC CARBON	450.00	MG/KG	10.0000	
SS	SO-OT08-SB14	SW9060	0.05	TOTAL ORGANIC CARBON	430.00	MG/KG	10.0000	
SS	SO-OT08-SB14	SW9060	0.05	TOTAL ORGANIC CARBON	420.00	MG/KG	10.0000	

Notes:

- BSG = brown silty gravel
- BSG/S = brown silty gravel with sand
- BSS/G = brown silty sand with gravel
- CM/SEC = centimeters per second
- E = exponent
- ft = feet
- J = estimated

- MEQ/100G = milliequivalent weights per 100 grams
- MG/KG = milligrams per kilogram
- SO = soil
- SS = surface soil
- U = undetected (analyzed but not detected)
- % = percent

SURFACE AND SUBSURFACE SOIL SAMPLING FIELD DATA FORM

PROJECT NAME: INDIAN MOUNTAIN LRRS

PROJECT NUMBER: 05G46200

SITE ID: 0T08

0T08-SS08 Loc ID

SAMPLE ID: 50-0T08-SS08

LOT CONTROL NO. IN-A10001

DATE: 8/11/95

TIME: 1030

WEATHER: Overcast, 50

FIELD SAMPLING TEAM: S. Brown, B. Davidson

SAMPLING LOCATION: Lab sample collected from 0.5-1' depth
Approx 50' south of the COR1 marker on the
South side of 0T08. Location is across roadway from COR1.

COMPOSITE: YES NO COMPOSITE DESCRIPTION: collection of soils from one
depth

DEPTH OF SAMPLING INTERVAL: 0.5-1', 2.5-3', 4.5-5' VOLUME COLLECTED: 1 4oz jar &

HEADSPACE READINGS: _____ 3 test kit samples
- all for PCB analysis

DESCRIPTION OF SOIL MATERIALS:

Medium brown silty soil with 40% gravel and angular
boulders. Did not encounter bedrock or water. ~~the~~ Water
did slowly seep in from bottom.

FIELD TEST KIT SCREENING TPH: _____ PCB: Aroclor 1260

SAMPLE IDS:	RESULTS:
<u>SS08-01</u>	<u>ND, < 1ppm</u>
<u>SS08-02</u>	<u>NA ND 8/12/95</u>
<u>SS08-03</u>	<u>NA</u>
	<u>ND = none detected</u>
	<u>NA = not analyzed</u>

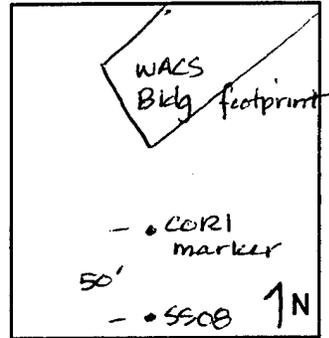
DATE AND TIME OF TEST KIT SCREENING 1530 8/11/95 (8/12/95)

COMPLETED BY:

Sarah Brown Sarah Brown 8/11/95
PRINT NAME SIGNATURE DATE

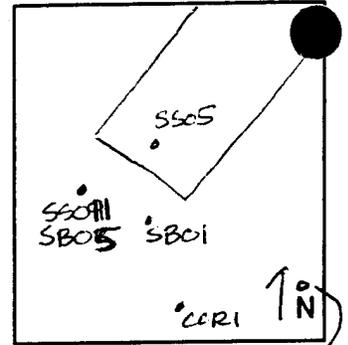
CHECKED BY:

PRINT NAME SIGNATURE DATE



SURFACE AND SUBSURFACE SOIL SAMPLING FIELD DATA FORM

PROJECT NAME: INDIAN MOUNTAIN LRSS
 PROJECT NUMBER: 05G46200 LOC ID OT08-SS09
 SITE ID: OT08
 SAMPLE ID: SO-OT08-SB03 LOT CONTROL NO. IN-A100101
 DATE: 8/11/95 TIME: 1045
 WEATHER: Overcast, 50°F
 FIELD SAMPLING TEAM: S. Brown, B. Davidson



SAMPLING LOCATION: Lab sample collected from 4.5-5' depth
Approx 130' SE of COR1 marker on south side
of OT08. Near area of former diesel tanks

SS09
SB03

COMPOSITE: YES NO COMPOSITE DESCRIPTION: A collection of soil from each depth
0.5-1', 2.5-3' and 4.5-5' VOLUME COLLECTED: 1 4oz and
3 20g test kit samples
 HEADSPACE READINGS: _____ - all for PCB analysis

DESCRIPTION OF SOIL MATERIALS:
Gray, silty/clayey, moist soils with 40-50% gravel and
boulders. Sheen on soils and strong degraded fuel odor.
Water trickled in about 1' bgs. Bedrock not encountered

FIELD TEST KIT SCREENING TPH: _____ PCB: Arador 1260

SAMPLE IDS:	RESULTS:
SS09-01	>1, <10 ppm
SS09-02	NA ND 8/12/95
SS09-03	NA
	NA= not analyzed
	ND= not detected

DATE AND TIME OF
 TEST KIT SCREENING 8/11/95 1530

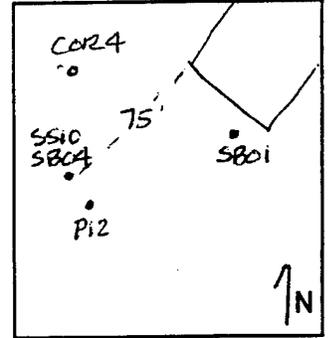
COMPLETED BY:
Sarah Brown Sarah Brown 8/11/95
 PRINT NAME SIGNATURE DATE

CHECKED BY:

 PRINT NAME SIGNATURE DATE

SURFACE AND SUBSURFACE SOIL SAMPLING FIELD DATA FORM

PROJECT NAME: INDIAN MOUNTAIN LRRS Loc ID OT08-SS10
 PROJECT NUMBER: 05G46200
 SITE ID: OT08 IN-A100201
 SAMPLE ID: SO-OT08-SS10 and LOT CONTROL NO. IN-A100301
 DATE: 8/11/95 SO-OT08-SB04 TIME: 1221 ± 1224 (1228 am)
 WEATHER: Overcast, 50°F COC.
 FIELD SAMPLING TEAM: S. Brown, R. Henry



SAMPLING LOCATION: Lab samples collected from 0.5-1' and 2.5-3.0' depths
Approx. 80' west of SB01 ± 60' south of COR24
marker.

COMPOSITE: YES NO COMPOSITE DESCRIPTION: Collection of soils from each interval, between rocks
 DEPTH OF SAMPLING INTERVAL: 0.5-1', 2.5-3' and 4.5-5' VOLUME COLLECTED: 1-4oz for each lab sample ± 20g for each test kit all for PCB analysis
 HEADSPACE READINGS: _____

DESCRIPTION OF SOIL MATERIALS:

Permafrost and fractured bedrock were encountered at 5' bgs.
No major water seepage observed. Gray, silty soil with 50% gravel and boulders.

FIELD TEST KIT SCREENING TPH: _____ PCB: Aroclor 1260

SAMPLE IDS:	RESULTS:
SS10-01	ND
SS10-02	ND
SS10-03	ND
	ND = not detected

DATE AND TIME OF TEST KIT SCREENING 8/11 ± 8/12/95

COMPLETED BY:

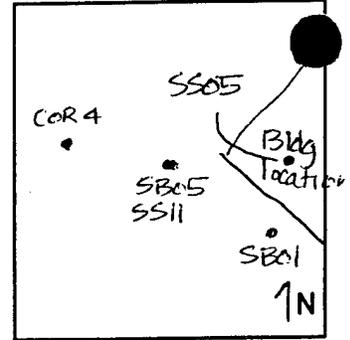
Sarah Brown Sarah Brown 8/11/95
 PRINT NAME SIGNATURE DATE

CHECKED BY:

 PRINT NAME SIGNATURE DATE

SURFACE AND SUBSURFACE SOIL SAMPLING FIELD DATA FORM

PROJECT NAME: INDIAN MOUNTAIN LRRS
 PROJECT NUMBER: 05G46200 LOC ID 0T08-SS11
 SITE ID: 0T08
 SAMPLE ID: SO-0T08-SB05 LOT CONTROL NO. IN-A100401
 DATE: 8/11/95 TIME: 1247 (1250 on COL)
 WEATHER: Overcast, 50°F
 FIELD SAMPLING TEAM: S. Brown, R. Henry



SAMPLING LOCATION: Lab sample collected from 2.5-3' depth east of COR4 and west of SS05 (1994 location)

COMPOSITE: YES / NO COMPOSITE DESCRIPTION: Collection of soils at the specific depths.
 DEPTH OF SAMPLING INTERVAL: 0.5-1', 2.5-3' and 4.5-5' VOLUME COLLECTED: 1-4oz jar for lab
 HEADSPACE READINGS: _____ 1-20g sample for test kits
 DESCRIPTION OF SOIL MATERIALS: _____ -all for PCB analysis

Soil/rock composition^{SB} is similar to other pits. Permafrost and fractured bedrock were encountered at 5' bgs. Soil became moist and 4.5'. Very rocky throughout pit.

FIELD TEST KIT SCREENING TPH: _____ PCB: X Aroclor 1260

SAMPLE IDS:	RESULTS:
SS11-01	> 1, < 10 ppm
SS11-02	ND
SS11-03	NA
	ND = not detected NA = not analyzed

DATE AND TIME OF TEST KIT SCREENING 8/11/95

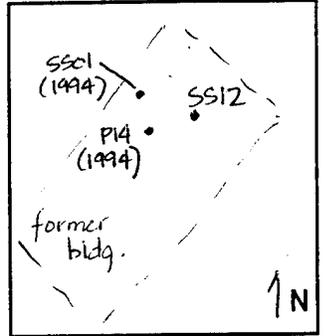
COMPLETED BY:
Sarah Brown Sarah Brown 8/11/95
 PRINT NAME SIGNATURE DATE

CHECKED BY:

 PRINT NAME SIGNATURE DATE

SURFACE AND SUBSURFACE SOIL SAMPLING FIELD DATA FORM

PROJECT NAME: INDIAN MOUNTAIN LRRS
 PROJECT NUMBER: 05G46200 Loc ID OT08-SS12
 SITE ID: OT08
 SAMPLE ID: SO-OT08-SS12 LOT CONTROL NO. IN-A100501
 DATE: 8/11/95 TIME: 1310
 WEATHER: Overcast 50°F
 FIELD SAMPLING TEAM: S. Brown, R. Henry



SAMPLING LOCATION: Lab sample collected from 0.5 - 1' depth
location is SE of 1994 location SS01. Location
is near proposed diversion ditch path

COMPOSITE: YES NO COMPOSITE DESCRIPTION: Soils composited at each interval
 DEPTH OF SAMPLING INTERVAL: 0.5 - 1' VOLUME COLLECTED: 1-4oz for lab
 HEADSPACE READINGS: _____ 1-2oz for test kit
 - all for PCB analysis

DESCRIPTION OF SOIL MATERIALS:
Fine-grained, med. brown silty soil with some gravel and
construction debris, cables and wood. Finished excavation
at 2' bgs because excessive building debris was encountere.

FIELD TEST KIT SCREENING TPH: _____ PCB: x Aroclor 1260

SAMPLE IDS:	RESULTS:
SS12 - 01	Not detected

DATE AND TIME OF
 TEST KIT SCREENING 8/11/95

COMPLETED BY:
Sarah Brown Sarah Brown 8/11/95
 PRINT NAME SIGNATURE DATE

CHECKED BY:

 PRINT NAME SIGNATURE DATE

SURFACE AND SUBSURFACE SOIL SAMPLING FIELD DATA FORM

PROJECT NAME: INDIAN MOUNTAIN LRSS

PROJECT NUMBER: 05G46200

LOC ID 0T08-SS13

SITE ID: 0T08

SAMPLE ID: SO-0T08-SS13 LOT CONTROL NO. IN-A100701

DATE: 8/11/95 and SO-0T08-SB06 TIME: 1326 & 1332

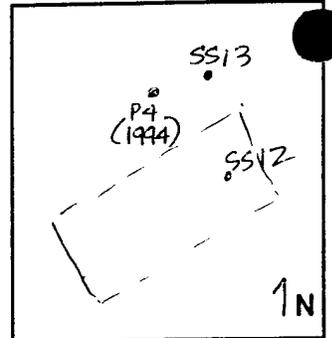
WEATHER: overcast 50°F

FIELD SAMPLING TEAM: S. Brown and R. Henry

SAMPLING LOCATION: Lab samples collected from 0.5-1' and 2.5-3' bgs

NW side of 0T08 and 1994 location SS01.

NW of diversion ditch.



COMPOSITE: YES NO COMPOSITE DESCRIPTION: Soils were composited at each interval

DEPTH OF SAMPLING INTERVAL: 0.5-1', 2.5-3', and 4.5-5' VOLUME COLLECTED: 1-4oz for each lab sample and 20g for test kits - all for PCB analysis

HEADSPACE READINGS: _____

DESCRIPTION OF SOIL MATERIALS:

Heavy degraded fuel odor and sheen on gray silty/clayey soils containing 70% gravel and small boulders. Water was encountered about 4' bgs. Six inches of peat material at surface

FIELD TEST KIT SCREENING TPH: _____ PCB: X Aracor 1760

SAMPLE IDS:	RESULTS:
SS13-01	ND
SS13-02	ND
SS13-03	NA
	ND = not detected
	NA = not analyzed

DATE AND TIME OF TEST KIT SCREENING 8/11/95

COMPLETED BY:

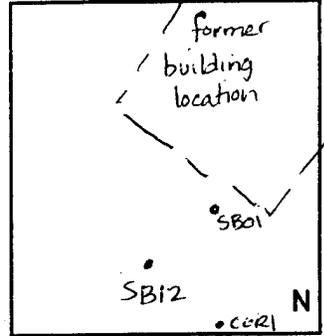
Sarah Brown Sarah Brown 8/11/95
 PRINT NAME SIGNATURE DATE

CHECKED BY:

 PRINT NAME SIGNATURE DATE

SURFACE AND SUBSURFACE SOIL SAMPLING FIELD DATA FORM

PROJECT NAME: INDIAN MOUNTAIN LRRS Geotech Sample
 PROJECT NUMBER: 05G46200
 SITE ID: OT08 Loc ID: OT08-SB12
 SAMPLE ID: 50-OT08-SB12 LOT CONTROL NO. IN-A10E
 DATE: 8/13/95 TIME: 1229
 WEATHER: 50° F, windy, cloudy
 FIELD SAMPLING TEAM: R. Henry, Samar Karmi
 SAMPLING LOCATION:



50' south(w) of 1994 location OT08-SB12

COMPOSITE: YES/NO COMPOSITE DESCRIPTION: _____
 DEPTH OF SAMPLING INTERVAL: 0.5' VOLUME COLLECTED: 2-16 oz jars
1 steel sleeve
 HEADSPACE READINGS: _____ Geotechnical analyses: D2216,
D2434, D2487, D422, DE54, SWA060,
SW90F.

DESCRIPTION OF SOIL MATERIALS: _____
The steel sleeve was submitted as an undisturbed
sample. Analyses include: % moisture, permeability, particle size
analysis, bulk density, total organic carbon, cation-exchange capacity,
and soil classification.
 FIELD TEST KIT SCREENING TPH: _____ PCB: _____

SAMPLE IDS:	RESULTS:

DATE AND TIME OF TEST KIT SCREENING _____

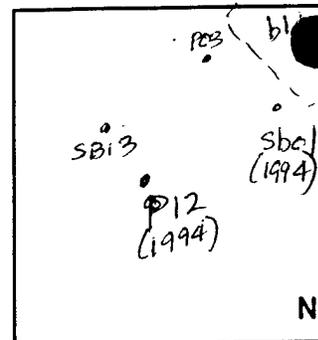
COMPLETED BY:
Sarah Brown Sarah Brown 8/13/95
 PRINT NAME SIGNATURE DATE

CHECKED BY:

 PRINT NAME SIGNATURE DATE

SURFACE AND SUBSURFACE SOIL SAMPLING FIELD DATA FORM

PROJECT NAME: INDIAN MOUNTAIN LRRS *Geotech sample*
 PROJECT NUMBER: 05G46200
 SITE ID: 0T08 LOC ID: 0T08-SB13
 SAMPLE ID: 50-0T08-SB13 LOT CONTROL NO. IN-A1019
 DATE: 8/13/95 TIME: 1525
 WEATHER: cloudy, 50%, breezy
 FIELD SAMPLING TEAM: R. Henry & S. Karmi



SAMPLING LOCATION:
25' south of test pit SS10, where samples
50-0T08-SS10 & -SB04 were collected.

COMPOSITE: YES NO COMPOSITE DESCRIPTION: _____

DEPTH OF SAMPLING INTERVAL: 0.5' VOLUME COLLECTED: 2-16oz jars & one
galvanized steel sleeve.

HEADSPACE READINGS: _____
 ANALYSES: D2216, D2434, D2487,
D422, D854, SW9060, SW9091

DESCRIPTION OF SOIL MATERIALS:
The steel sleeve was submitted as an undisturbed sample
Geotech. Analyses are: % moisture, permeability, particle size analysis,
bulk density, total organic carbon, cation-exchange capacity,
and soil classification.
 FIELD TEST KIT SCREENING TPH: _____ PCB: _____

SAMPLE IDS:	RESULTS:

DATE AND TIME OF
 TEST KIT SCREENING _____

COMPLETED BY:
Sarah Brown Sarah Brown 8/13/95
 PRINT NAME SIGNATURE DATE

CHECKED BY:

 PRINT NAME SIGNATURE DATE

SURFACE AND SUBSURFACE SOIL SAMPLING FIELD DATA FORM

PROJECT NAME: INDIAN MOUNTAIN LRRS

PROJECT NUMBER: 05G46200

SITE ID: OT08

LOC ID: OT08-SB14

SAMPLE ID: SO-OT08-SB14

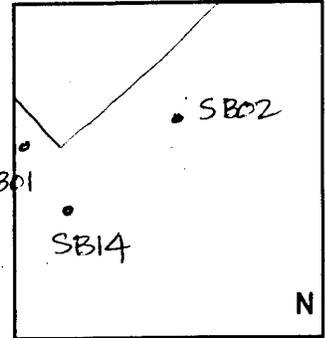
LOT CONTROL NO. IN-A1020

DATE: 8/13/95

TIME: 1538

WEATHER: cloudy, 50° F, breezy

FIELD SAMPLING TEAM: R. Henry, S. Karmi



SAMPLING LOCATION:

30' ^{SE} SW of 1994 and 1995 location ^{SB} ~~SB02~~ - SB01

COMPOSITE: YES/NO COMPOSITE DESCRIPTION: _____

DEPTH OF SAMPLING INTERVAL: 0.5' VOLUME COLLECTED: 2-16oz jars

HEADSPACE READINGS: _____

could not collect a sleeve.

DESCRIPTION OF SOIL MATERIALS:

we will see what analyses the lab can run

Analyses may include % moisture, permeability, particle size analysis, bulk density, total organic carbon, cation exchange capacity, and soil classification.

FIELD TEST KIT SCREENING TPH: _____ PCB: _____

SAMPLE IDS:	RESULTS:

DATE AND TIME OF TEST KIT SCREENING _____

COMPLETED BY:

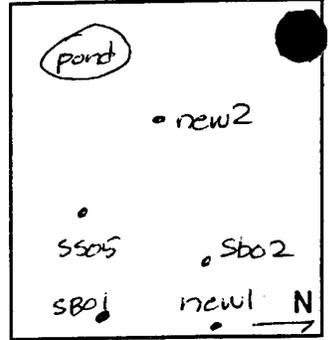
Sarah Brown Sarah Brown 8/13/95
 PRINT NAME SIGNATURE DATE

CHECKED BY:

 PRINT NAME SIGNATURE DATE

SURFACE AND SUBSURFACE SOIL SAMPLING FIELD DATA FORM

PROJECT NAME: INDIAN MOUNTAIN LRRS
 PROJECT NUMBER: 05G46200
 SITE ID: OT08
 SAMPLE ID: variety/no lab LOT CONTROL NO. _____
 DATE: 8/9/95 TIME: 1145-1315
 WEATHER: cloudy, breezy, 50°F
 FIELD SAMPLING TEAM: S. Brown & R. Henry



SAMPLING LOCATION:
1st two were along the road between the last switchback and Top Camp. 3rd & 4th were on north side of lower bench

COMPOSITE: YES (NO) COMPOSITE DESCRIPTION: _____

DEPTH OF SAMPLING INTERVAL: 0-6", 2.5', 5' VOLUME COLLECTED: 20g each

HEADSPACE READINGS: not meas'd

DESCRIPTION OF SOIL MATERIALS:

med to dark brown silty soils with occasional clay nodules that are gray. typical to observe fuel sheen & degraded fuel odor. H₂O at 2-2.5' in ss05 sb01, & sb02; at 4-5' in new1; not encountered in new2. Permafrost was encountered in new2 at
 FIELD TEST KIT SCREENING TPH: _____ PCB: X
 Aracor 1260 4-5'. Bedrock
 RESULTS: at 5' in new1.

SAMPLE IDS:

<u>SB01 - same location as 1994</u>	<u>Surf - >10, <40; 2.5' - >40; 5' - ND</u>
<u>SB02 - "</u>	<u>surf. > 40; 2.5' >40; 5' - >40</u>
<u>SS05 - "</u>	<u>surf. > 40; 2.5' >1, <10; 5' - NA</u>
<u>New 1 - 20' SE of SB02</u>	<u>surf. >10, <40; 2.5' - ND; 5' - NA</u>
<u>New 2 - 35' SE of pond</u>	<u>surf ND; 2.5' ND; 5' - NA</u>

Detection limits
 1, 10, 40 ppm

DATE AND TIME OF TEST KIT SCREENING 8/9 7-10:30 and 8/10 8-9 am

COMPLETED BY:

Sarah Brown Sarah Brown SB 8/10/95
 PRINT NAME SIGNATURE DATE

CHECKED BY:

 PRINT NAME SIGNATURE DATE

APPENDIX C
SS09 LABORATORY RESULTS
SS09 SAMPLING FORMS

TABLE C
Laboratory Results
Source Area SS09
Indian Mountain Long Range Radar Station

Matrix	Sample Identification	Test Method	Analyte	Value	Units	Detection Limit	Lab Qualifier
WG	WG-SS09-MW01-02	SW8260	1,1,1,2-TETRACHLOROETHANE	0.00	UG/L	0.2000	U
WG	WG-SS09-MW01-02	SW8260	1,1,1-TRICHLOROETHANE	0.00	UG/L	0.3000	U
WG	WG-SS09-MW01-02	SW8260	1,1,2,2-TETRACHLOROETHANE	0.00	UG/L	0.4000	U
WG	WG-SS09-MW01-02	SW8260	1,1,2-TRICHLOROETHANE	0.00	UG/L	0.4000	U
WG	WG-SS09-MW01-02	SW8260	1,1-DICHLOROETHANE	0.00	UG/L	0.2000	U
WG	WG-SS09-MW01-02	SW8260	1,1-DICHLOROETHENE	0.00	UG/L	0.4000	U
WG	WG-SS09-MW01-02	SW8260	1,2-DICHLOROBENZENE	0.00	UG/L	0.3000	U
WG	WG-SS09-MW01-02	SW8260	1,2-DICHLOROETHANE	0.00	UG/L	0.3000	U
WG	WG-SS09-MW01-02	SW8260	1,2-DICHLOROPROPANE	0.00	UG/L	0.4000	U
WG	WG-SS09-MW01-02	SW8260	1,3-DICHLOROBENZENE	0.00	UG/L	0.3000	U
WG	WG-SS09-MW01-02	SW8260	1,4-DICHLOROBENZENE	0.00	UG/L	0.2000	U
WG	WG-SS09-MW01-02	SW8260	1-CHLOROHEXANE	0.00	UG/L	0.3000	U
WG	WG-SS09-MW01-02	SW8260	BENZENE	0.00	UG/L	0.2000	U
WG	WG-SS09-MW01-02	SW8260	BROMOBENZENE	0.00	UG/L	0.3000	U
WG	WG-SS09-MW01-02	SW8260	BROMODICHLOROMETHANE	0.00	UG/L	0.4000	U
WG	WG-SS09-MW01-02	SW8260	BROMOFORM	0.00	UG/L	0.4000	U
WG	WG-SS09-MW01-02	SW8260	BROMOMETHANE	0.00	UG/L	0.2000	U
WG	WG-SS09-MW01-02	SW8260	CARBON TETRACHLORIDE	0.00	UG/L	0.4000	U
WG	WG-SS09-MW01-02	SW8260	CHLOROBENZENE	0.00	UG/L	0.2000	U
WG	WG-SS09-MW01-02	SW8260	CHLOROETHANE	0.00	UG/L	0.5000	U
WG	WG-SS09-MW01-02	SW8260	CHLOROFORM	0.00	UG/L	0.3000	U
WG	WG-SS09-MW01-02	SW8260	CHLOROMETHANE	0.00	UG/L	0.4000	U
WG	WG-SS09-MW01-02	SW8260	cis-1,2-DICHLOROETHYLENE	0.00	UG/L	0.3000	U
WG	WG-SS09-MW01-02	SW8260	DIBROMOCHLOROMETHANE	0.00	UG/L	0.3000	U
WG	WG-SS09-MW01-02	SW8260	DIBROMOMETHANE	0.00	UG/L	0.3000	U
WG	WG-SS09-MW01-02	AK102	DIESEL RANGE ORGANICS	2.00	MG/L	0.1000	J
WG	WG-SS09-MW01-02	SW8260	ETHYLBENZENE	1.30	UG/L	0.3000	J
WG	WG-SS09-MW01-02	AK101	GASOLINE RANGE ORGANICS	560.00	UG/L	70.0000	
WG	WG-SS09-MW01-02	SW8260	METHYLENE CHLORIDE	0.00	UG/L	0.4000	U
WG	WG-SS09-MW01-02	SW8260	STYRENE	0.00	UG/L	0.5000	U
WG	WG-SS09-MW01-02	SW8260	TETRACHLOROETHYLENE (PCE)	0.00	UG/L	0.5000	U
WG	WG-SS09-MW01-02	SW8260	TOLUENE	0.00	UG/L	0.3000	U
WG	WG-SS09-MW01-02	SW8260	TOTAL XYLENES	5.50	UG/L	0.3000	

TABLE C
Laboratory Results
Source Area SS09
Indian Mountain Long Range Radar Station

Matrix	Sample Identification	Test Method	Analyte	Value	Units	Detection Limit	Lab Qualifier
WG	WG-SS09-MW01-02	SW8260	trans-1,2-DICHLOROETHENE	0.00	UG/L	0.3000	U
WG	WG-SS09-MW01-02	SW8260	TRICHLOROETHYLENE (TCE)	0.00	UG/L	0.5000	U
WG	WG-SS09-MW01-02	SW8260	TRICHLOROFLUOROMETHANE	0.00	UG/L	0.4000	U
WG	WG-SS09-MW01-02	SW8260	VINYL CHLORIDE	0.00	UG/L	0.1000	U
WG	WG-SS09-MW02-02	SW8260	1,1,1,2-TETRACHLOROETHANE	0.00	UG/L	0.2000	U
WG	WG-SS09-MW02-02	SW8260	1,1,1-TRICHLOROETHANE	0.00	UG/L	0.3000	U
WG	WG-SS09-MW02-02	SW8260	1,1,2,2-TETRACHLOROETHANE	0.00	UG/L	0.4000	U
WG	WG-SS09-MW02-02	SW8260	1,1,2-TRICHLOROETHANE	0.00	UG/L	0.4000	U
WG	WG-SS09-MW02-02	SW8260	1,1-DICHLOROETHANE	0.00	UG/L	0.2000	U
WG	WG-SS09-MW02-02	SW8260	1,1-DICHLOROETHENE	0.00	UG/L	0.4000	U
WG	WG-SS09-MW02-02	SW8260	1,2-DICHLOROBENZENE	0.00	UG/L	0.3000	U
WG	WG-SS09-MW02-02	SW8260	1,2-DICHLOROETHANE	0.00	UG/L	0.3000	U
WG	WG-SS09-MW02-02	SW8260	1,2-DICHLOROPROPANE	0.00	UG/L	0.4000	U
WG	WG-SS09-MW02-02	SW8260	1,3-DICHLOROBENZENE	0.00	UG/L	0.3000	U
WG	WG-SS09-MW02-02	SW8260	1,4-DICHLOROBENZENE	0.00	UG/L	0.2000	U
WG	WG-SS09-MW02-02	SW8260	1-CHLOROHEXANE	0.00	UG/L	0.3000	U
WG	WG-SS09-MW02-02	SW8260	BENZENE	0.00	UG/L	0.2000	U
WG	WG-SS09-MW02-02	SW8260	BROMOBENZENE	0.00	UG/L	0.3000	U
WG	WG-SS09-MW02-02	SW8260	BROMODICHLOROMETHANE	0.00	UG/L	0.4000	U
WG	WG-SS09-MW02-02	SW8260	BROMOFORM	0.00	UG/L	0.4000	U
WG	WG-SS09-MW02-02	SW8260	BROMOMETHANE	0.00	UG/L	0.2000	U
WG	WG-SS09-MW02-02	SW8260	CARBON TETRACHLORIDE	0.00	UG/L	0.4000	U
WG	WG-SS09-MW02-02	SW8260	CHLOROBENZENE	0.00	UG/L	0.2000	U
WG	WG-SS09-MW02-02	SW8260	CHLOROETHANE	0.00	UG/L	0.5000	U
WG	WG-SS09-MW02-02	SW8260	CHLOROFORM	0.00	UG/L	0.3000	U
WG	WG-SS09-MW02-02	SW8260	CHLOROMETHANE	0.00	UG/L	0.4000	U
WG	WG-SS09-MW02-02	SW8260	cis-1,2-DICHLOROETHYLENE	0.00	UG/L	0.3000	U
WG	WG-SS09-MW02-02	SW8260	DIBROMOCHLOROMETHANE	0.00	UG/L	0.3000	U
WG	WG-SS09-MW02-02	SW8260	DIBROMOMETHANE	0.00	UG/L	0.3000	U
WG	WG-SS09-MW02-02	AK102	DIESEL RANGE ORGANICS	0.08	MG/L	0.0200	J
WG	WG-SS09-MW02-02	SW8260	ETHYLBENZENE	0.00	UG/L	0.3000	U
WG	WG-SS09-MW02-02	AK101	GASOLINE RANGE ORGANICS	0.00	UG/L	70.0000	U
WG	WG-SS09-MW02-02	SW8260	METHYLENE CHLORIDE	0.00	UG/L	0.4000	U

TABLE C
 Laboratory Results
 Source Area SS09
 Indian Mountain Long Range Radar Station

Matrix	Sample Identification	Test Method	Analyte	Value	Units	Detection Limit	Lab Qualifier
WG	WG-SS09-MW02-02	SW8260	STYRENE	0.00	UG/L	0.5000	U
WG	WG-SS09-MW02-02	SW8260	TETRACHLOROETHYLENE (PCE)	0.00	UG/L	0.5000	U
WG	WG-SS09-MW02-02	SW8260	TOLUENE	0.00	UG/L	0.3000	U
WG	WG-SS09-MW02-02	SW8260	TOTAL XYLENES	0.00	UG/L	0.3000	U
WG	WG-SS09-MW02-02	SW8260	trans-1,2-DICHLOROETHENE	0.00	UG/L	0.3000	U
WG	WG-SS09-MW02-02	SW8260	TRICHLOROETHYLENE (TCE)	0.00	UG/L	0.5000	U
WG	WG-SS09-MW02-02	SW8260	TRICHLOROFLUOROMETHANE	0.00	UG/L	0.4000	U
WG	WG-SS09-MW02-02	SW8260	VINYL CHLORIDE	0.00	UG/L	0.1000	U
WG	WG-SS09-MW03-02	SW8260	1,1,1,2-TETRACHLOROETHANE	0.00	UG/L	0.2000	U
WG	WG-SS09-MW03-02	SW8260	1,1,1-TRICHLOROETHANE	0.00	UG/L	0.3000	U
WG	WG-SS09-MW03-02	SW8260	1,1,2,2-TETRACHLOROETHANE	0.00	UG/L	0.4000	U
WG	WG-SS09-MW03-02	SW8260	1,1,2-TRICHLOROETHANE	0.00	UG/L	0.4000	U
WG	WG-SS09-MW03-02	SW8260	1,1-DICHLOROETHANE	0.00	UG/L	0.2000	U
WG	WG-SS09-MW03-02	SW8260	1,1-DICHLOROETHENE	0.00	UG/L	0.4000	U
WG	WG-SS09-MW03-02	SW8260	1,2-DICHLOROBENZENE	0.00	UG/L	0.3000	U
WG	WG-SS09-MW03-02	SW8260	1,2-DICHLOROETHANE	0.00	UG/L	0.3000	U
WG	WG-SS09-MW03-02	SW8260	1,2-DICHLOROPROPANE	0.00	UG/L	0.4000	U
WG	WG-SS09-MW03-02	SW8260	1,3-DICHLOROBENZENE	0.00	UG/L	0.3000	U
WG	WG-SS09-MW03-02	SW8260	1,4-DICHLOROBENZENE	0.00	UG/L	0.2000	U
WG	WG-SS09-MW03-02	SW8260	1-CHLOROHEXANE	0.00	UG/L	0.3000	U
WG	WG-SS09-MW03-02	SW8260	BENZENE	3.50	UG/L	0.2000	
WG	WG-SS09-MW03-02	SW8260	BROMOBENZENE	0.00	UG/L	0.3000	U
WG	WG-SS09-MW03-02	SW8260	BROMODICHLOROMETHANE	0.00	UG/L	0.4000	U
WG	WG-SS09-MW03-02	SW8260	BROMOFORM	0.00	UG/L	0.4000	U
WG	WG-SS09-MW03-02	SW8260	BROMOMETHANE	0.00	UG/L	0.2000	U
WG	WG-SS09-MW03-02	SW8260	CARBON TETRACHLORIDE	0.00	UG/L	0.4000	U
WG	WG-SS09-MW03-02	SW8260	CHLOROBENZENE	0.00	UG/L	0.2000	U
WG	WG-SS09-MW03-02	SW8260	CHLOROETHANE	0.00	UG/L	0.5000	U
WG	WG-SS09-MW03-02	SW8260	CHLOROFORM	0.00	UG/L	0.3000	U
WG	WG-SS09-MW03-02	SW8260	CHLOROMETHANE	0.00	UG/L	0.4000	U
WG	WG-SS09-MW03-02	SW8260	cis-1,2-DICHLOROETHYLENE	0.00	UG/L	0.3000	U
WG	WG-SS09-MW03-02	SW8260	DIBROMOCHLOROMETHANE	0.00	UG/L	0.3000	U
WG	WG-SS09-MW03-02	SW8260	DIBROMOMETHANE	0.00	UG/L	0.3000	U

TABLE C
Laboratory Results
Source Area SS09
Indian Mountain Long Range Radar Station

Matrix	Sample Identification	Test Method	Analyte	Value	Units	Detection Limit	Lab Qualifier
WG	WG-SS09-MW03-02	AK102	DIESEL RANGE ORGANICS	0.82	MG/L	0.0200	J
WG	WG-SS09-MW03-02	SW8260	ETHYLBENZENE	0.68	UG/L	0.3000	J
WG	WG-SS09-MW03-02	AK101	GASOLINE RANGE ORGANICS	230.00	UG/L	70.0000	
WG	WG-SS09-MW03-02	SW8260	METHYLENE CHLORIDE	0.00	UG/L	0.4000	U
WG	WG-SS09-MW03-02	SW8260	STYRENE	0.00	UG/L	0.5000	U
WG	WG-SS09-MW03-02	SW8260	TETRACHLOROETHYLENE (PCE)	0.00	UG/L	0.5000	U
WG	WG-SS09-MW03-02	SW8260	TOLUENE	0.00	UG/L	0.3000	U
WG	WG-SS09-MW03-02	SW8260	TOTAL XYLENES	0.88	UG/L	0.3000	J
WG	WG-SS09-MW03-02	SW8260	trans-1,2-DICHLOROETHENE	0.00	UG/L	0.3000	U
WG	WG-SS09-MW03-02	SW8260	TRICHLOROETHYLENE (TCE)	0.00	UG/L	0.5000	U
WG	WG-SS09-MW03-02	SW8260	TRICHLOROFLUOROMETHANE	0.00	UG/L	0.4000	U
WG	WG-SS09-MW03-02	SW8260	VINYL CHLORIDE	0.00	UG/L	0.1000	U
WG	WG-SS09-MW04-02	SW8260	1,1,1,2-TETRACHLOROETHANE	0.00	UG/L	0.2000	U
WG	WG-SS09-MW04-02	SW8260	1,1,1-TRICHLOROETHANE	0.00	UG/L	0.3000	U
WG	WG-SS09-MW04-02	SW8260	1,1,2,2-TETRACHLOROETHANE	0.00	UG/L	0.4000	U
WG	WG-SS09-MW04-02	SW8260	1,1,2-TRICHLOROETHANE	0.00	UG/L	0.4000	U
WG	WG-SS09-MW04-02	SW8260	1,1-DICHLOROETHANE	0.00	UG/L	0.2000	U
WG	WG-SS09-MW04-02	SW8260	1,1-DICHLOROETHENE	0.00	UG/L	0.4000	U
WG	WG-SS09-MW04-02	SW8260	1,2-DICHLOROBENZENE	0.00	UG/L	0.3000	U
WG	WG-SS09-MW04-02	SW8260	1,2-DICHLOROETHANE	0.00	UG/L	0.3000	U
WG	WG-SS09-MW04-02	SW8260	1,2-DICHLOROPROPANE	0.00	UG/L	0.4000	U
WG	WG-SS09-MW04-02	SW8260	1,3-DICHLOROBENZENE	0.00	UG/L	0.3000	U
WG	WG-SS09-MW04-02	SW8260	1,4-DICHLOROBENZENE	0.00	UG/L	0.2000	U
WG	WG-SS09-MW04-02	SW8260	1-CHLOROHEXANE	0.00	UG/L	0.3000	U
WG	WG-SS09-MW04-02	SW8260	BENZENE	0.00	UG/L	0.2000	U
WG	WG-SS09-MW04-02	SW8260	BROMOBENZENE	0.00	UG/L	0.3000	U
WG	WG-SS09-MW04-02	SW8260	BROMODICHLOROMETHANE	0.00	UG/L	0.4000	U
WG	WG-SS09-MW04-02	SW8260	BROMOFORM	0.00	UG/L	0.4000	U
WG	WG-SS09-MW04-02	SW8260	BROMOMETHANE	0.00	UG/L	0.2000	U
WG	WG-SS09-MW04-02	SW8260	CARBON TETRACHLORIDE	0.00	UG/L	0.4000	U
WG	WG-SS09-MW04-02	SW8260	CHLOROBENZENE	0.00	UG/L	0.2000	U
WG	WG-SS09-MW04-02	SW8260	CHLOROETHANE	0.00	UG/L	0.5000	U
WG	WG-SS09-MW04-02	SW8260	CHLOROFORM	0.00	UG/L	0.3000	U

TABLE C
Laboratory Results
Source Area SS09
Indian Mountain Long Range Radar Station

Matrix	Sample Identification	Test Method	Analyte	Value	Units	Detection Limit	Lab Qualifier
WG	WG-SS09-MW04-02	SW8260	CHLOROMETHANE	0.00	UG/L	0.4000	U
WG	WG-SS09-MW04-02	SW8260	cis-1,2-DICHLOROETHYLENE	0.00	UG/L	0.3000	U
WG	WG-SS09-MW04-02	SW8260	DIBROMOCHLOROMETHANE	0.00	UG/L	0.3000	U
WG	WG-SS09-MW04-02	SW8260	DIBROMOMETHANE	0.00	UG/L	0.3000	U
WG	WG-SS09-MW04-02	AK102	DIESEL RANGE ORGANICS	2.10	MG/L	0.0200	U
WG	WG-SS09-MW04-02	SW8260	ETHYLBENZENE	0.00	UG/L	0.3000	U
WG	WG-SS09-MW04-02	AK101	GASOLINE RANGE ORGANICS	3100.00	UG/L	70.0000	U
WG	WG-SS09-MW04-02	SW8260	METHYLENE CHLORIDE	0.00	UG/L	0.4000	U
WG	WG-SS09-MW04-02	SW8260	STYRENE	0.00	UG/L	0.5000	U
WG	WG-SS09-MW04-02	SW8260	TETRACHLOROETHYLENE (PCE)	0.00	UG/L	0.5000	U
WG	WG-SS09-MW04-02	SW8260	TOLUENE	0.00	UG/L	0.3000	U
WG	WG-SS09-MW04-02	SW8260	TOTAL XYLENES	0.00	UG/L	0.3000	U
WG	WG-SS09-MW04-02	SW8260	trans-1,2-DICHLOROETHENE	0.00	UG/L	0.3000	U
WG	WG-SS09-MW04-02	SW8260	TRICHLOROETHYLENE (TCE)	0.00	UG/L	0.5000	U
WG	WG-SS09-MW04-02	SW8260	TRICHLOROFLUOROMETHANE	0.00	UG/L	0.4000	U
WG	WG-SS09-MW04-02	SW8260	VINYL CHLORIDE	0.00	UG/L	0.1000	U
WG	WG-SS09-WG01-02	SW8260	1,1,1,2-TETRACHLOROETHANE	0.00	UG/L	0.2000	U
WG	WG-SS09-WG01-02	SW8260	1,1,1-TRICHLOROETHANE	0.00	UG/L	0.3000	U
WG	WG-SS09-WG01-02	SW8260	1,1,2,2-TETRACHLOROETHANE	0.00	UG/L	0.4000	U
WG	WG-SS09-WG01-02	SW8260	1,1,2-TRICHLOROETHANE	0.00	UG/L	0.4000	U
WG	WG-SS09-WG01-02	SW8260	1,1-DICHLOROETHANE	0.00	UG/L	0.2000	U
WG	WG-SS09-WG01-02	SW8260	1,1-DICHLOROETHENE	0.00	UG/L	0.4000	U
WG	WG-SS09-WG01-02	SW8260	1,2-DICHLOROBENZENE	0.00	UG/L	0.3000	U
WG	WG-SS09-WG01-02	SW8260	1,2-DICHLOROETHANE	0.00	UG/L	0.3000	U
WG	WG-SS09-WG01-02	SW8260	1,2-DICHLOROPROPANE	0.00	UG/L	0.4000	U
WG	WG-SS09-WG01-02	SW8260	1,3-DICHLOROBENZENE	0.00	UG/L	0.3000	U
WG	WG-SS09-WG01-02	SW8260	1,4-DICHLOROBENZENE	0.00	UG/L	0.2000	U
WG	WG-SS09-WG01-02	SW8260	1-CHLOROHEXANE	0.00	UG/L	0.3000	U
WG	WG-SS09-WG01-02	SW8260	BENZENE	0.00	UG/L	0.2000	U
WG	WG-SS09-WG01-02	SW8260	BROMOBENZENE	0.00	UG/L	0.3000	U
WG	WG-SS09-WG01-02	SW8260	BROMODICHLOROMETHANE	0.00	UG/L	0.4000	U
WG	WG-SS09-WG01-02	SW8260	BROMOFORM	0.00	UG/L	0.4000	U
WG	WG-SS09-WG01-02	SW8260	BROMOMETHANE	0.00	UG/L	0.2000	U

TABLE C
Laboratory Results
Source Area SS09
Indian Mountain Long Range Radar Station

Matrix	Sample Identification	Test Method	Analyte	Value	Units	Detection Limit	Lab Qualifier
WG	WG-SS09-WG01-02	SW8260	CARBON TETRACHLORIDE	0.00	UG/L	0.4000	U
WG	WG-SS09-WG01-02	SW8260	CHLOROBENZENE	0.00	UG/L	0.2000	U
WG	WG-SS09-WG01-02	SW8260	CHLOROETHANE	0.00	UG/L	0.5000	U
WG	WG-SS09-WG01-02	SW8260	CHLOROFORM	0.00	UG/L	0.3000	U
WG	WG-SS09-WG01-02	SW8260	CHLOROMETHANE	0.00	UG/L	0.4000	U
WG	WG-SS09-WG01-02	SW8260	cis-1,2-DICHLOROETHYLENE	0.00	UG/L	0.3000	U
WG	WG-SS09-WG01-02	SW8260	DIBROMOCHLOROMETHANE	0.00	UG/L	0.3000	U
WG	WG-SS09-WG01-02	SW8260	DIBROMOMETHANE	0.00	UG/L	0.3000	U
WG	WG-SS09-WG01-02	AK102	DIESEL RANGE ORGANICS	0.00	MG/L	0.0200	U
WG	WG-SS09-WG01-02	SW8260	ETHYLBENZENE	0.00	UG/L	0.3000	U
WG	WG-SS09-WG01-02	AK101	GASOLINE RANGE ORGANICS	0.00	UG/L	70.0000	U
WG	WG-SS09-WG01-02	SW8260	METHYLENE CHLORIDE	0.00	UG/L	0.4000	U
WG	WG-SS09-WG01-02	SW8260	STYRENE	0.00	UG/L	0.5000	U
WG	WG-SS09-WG01-02	SW8260	TETRACHLOROETHYLENE (PCE)	0.00	UG/L	0.5000	U
WG	WG-SS09-WG01-02	SW8260	TOLUENE	0.00	UG/L	0.3000	U
WG	WG-SS09-WG01-02	SW8260	TOTAL XYLENES	0.00	UG/L	0.3000	U
WG	WG-SS09-WG01-02	SW8260	trans-1,2-DICHLOROETHENE	0.00	UG/L	0.3000	U
WG	WG-SS09-WG01-02	SW8260	TRICHLOROETHYLENE (TCE)	0.00	UG/L	0.5000	U
WG	WG-SS09-WG01-02	SW8260	TRICHLOROFLUOROMETHANE	0.00	UG/L	0.4000	U
WG	WG-SS09-WG01-02	SW8260	VINYL CHLORIDE	0.00	UG/L	0.1000	U
WG	WG-SS09-WG01-02D	SW8260	1,1,1,2-TETRACHLOROETHANE	0.00	UG/L	0.2000	U
WG	WG-SS09-WG01-02D	SW8260	1,1,1-TRICHLOROETHANE	0.00	UG/L	0.3000	U
WG	WG-SS09-WG01-02D	SW8260	1,1,2,2-TETRACHLOROETHANE	0.00	UG/L	0.4000	U
WG	WG-SS09-WG01-02D	SW8260	1,1,2-TRICHLOROETHANE	0.00	UG/L	0.4000	U
WG	WG-SS09-WG01-02D	SW8260	1,1-DICHLOROETHANE	0.00	UG/L	0.2000	U
WG	WG-SS09-WG01-02D	SW8260	1,1-DICHLOROETHENE	0.00	UG/L	0.4000	U
WG	WG-SS09-WG01-02D	SW8260	1,2-DICHLOROBENZENE	0.00	UG/L	0.3000	U
WG	WG-SS09-WG01-02D	SW8260	1,2-DICHLOROETHANE	0.00	UG/L	0.3000	U
WG	WG-SS09-WG01-02D	SW8260	1,2-DICHLOROPROPANE	0.00	UG/L	0.4000	U
WG	WG-SS09-WG01-02D	SW8260	1,3-DICHLOROBENZENE	0.00	UG/L	0.3000	U
WG	WG-SS09-WG01-02D	SW8260	1,4-DICHLOROBENZENE	0.00	UG/L	0.2000	U
WG	WG-SS09-WG01-02D	SW8260	1-CHLOROHEXANE	0.00	UG/L	0.3000	U
WG	WG-SS09-WG01-02D	SW8260	BENZENE	0.00	UG/L	0.2000	U

TABLE C
Laboratory Results
Source Area SS09
Indian Mountain Long Range Radar Station

Matrix	Sample Identification	Test Method	Analyte	Value	Units	Detection Limit	Lab Qualifier
WG	WG-SS09-WG01-02D	SW8260	BROMOBENZENE	0.00	UG/L	0.3000	U
WG	WG-SS09-WG01-02D	SW8260	BROMODICHLOROMETHANE	0.00	UG/L	0.4000	U
WG	WG-SS09-WG01-02D	SW8260	BROMOFORM	0.00	UG/L	0.4000	U
WG	WG-SS09-WG01-02D	SW8260	BROMOMETHANE	0.00	UG/L	0.2000	U
WG	WG-SS09-WG01-02D	SW8260	CARBON TETRACHLORIDE	0.00	UG/L	0.4000	U
WG	WG-SS09-WG01-02D	SW8260	CHLOROBENZENE	0.00	UG/L	0.2000	U
WG	WG-SS09-WG01-02D	SW8260	CHLOROETHANE	0.00	UG/L	0.5000	U
WG	WG-SS09-WG01-02D	SW8260	CHLOROFORM	0.00	UG/L	0.3000	U
WG	WG-SS09-WG01-02D	SW8260	CHLOROMETHANE	0.00	UG/L	0.4000	U
WG	WG-SS09-WG01-02D	SW8260	cis-1,2-DICHLOROETHYLENE	0.00	UG/L	0.3000	U
WG	WG-SS09-WG01-02D	SW8260	DIBROMOCHLOROMETHANE	0.00	UG/L	0.3000	U
WG	WG-SS09-WG01-02D	SW8260	DIBROMOMETHANE	0.00	UG/L	0.3000	U
WG	WG-SS09-WG01-02D	AK102	DIESEL RANGE ORGANICS	0.00	MG/L	0.0200	U
WG	WG-SS09-WG01-02D	SW8260	ETHYLBENZENE	0.00	UG/L	0.3000	U
WG	WG-SS09-WG01-02D	AK101	GASOLINE RANGE ORGANICS	0.00	UG/L	70.0000	U
WG	WG-SS09-WG01-02D	SW8260	METHYLENE CHLORIDE	0.00	UG/L	0.4000	U
WG	WG-SS09-WG01-02D	SW8260	STYRENE	0.00	UG/L	0.5000	U
WG	WG-SS09-WG01-02D	SW8260	TETRACHLOROETHYLENE (PCE)	0.00	UG/L	0.5000	U
WG	WG-SS09-WG01-02D	SW8260	TOLUENE	0.00	UG/L	0.3000	U
WG	WG-SS09-WG01-02D	SW8260	TOTAL XYLENES	0.00	UG/L	0.3000	U
WG	WG-SS09-WG01-02D	SW8260	trans-1,2-DICHLOROETHENE	0.00	UG/L	0.3000	U
WG	WG-SS09-WG01-02D	SW8260	TRICHLOROETHYLENE (TCE)	0.00	UG/L	0.5000	U
WG	WG-SS09-WG01-02D	SW8260	TRICHLOROFLUOROMETHANE	0.00	UG/L	0.4000	U
WG	WG-SS09-WG01-02D	SW8260	VINYL CHLORIDE	0.00	UG/L	0.1000	U

Notes:

J = estimated

MG/L = milligrams per liter

UG/L = micrograms per liter

WG = groundwater

GROUNDWATER SAMPLING DATA SHEET

Site Name: Inline Mountain LRRS Well Number: 5504-MW-01
 Site ID: 5509 Well Type: (i.e., Monitor, Extraction) Monitor
 Project Number: 05G46200 Well Material: (i.e., PVC, St. Steel) PVC
 Date: 8/14/95 Start Time: 1924 Finish Time: 2031 Well Integrity: good
 Sampled By: R. Brown, S. Brown HNU Reading: 2-3 ppm

WELL PURGING

PURGE VOLUME
 Borehole Radius (in feet) = $\frac{5}{12}$ inches / 12 inches per foot = 0.417
 Total depth of borehole (in feet BTOC) = 10.15
 Water Level Depth (in feet BTOC) = 6.61
 Casing Radius (in feet) = $\frac{1}{12}$ inches / 12 inches per foot = 0.083
 Total depth of casing (in feet BTOC) = 10.15
 Number of well volumes to be purged (# Vols.) = 3

PURGE METHOD
 Bailer - Type: Teflon
 Pump Type: NA
 Submersible Centrifugal Bladder
 Other - Type: _____
 Immiscible Phase Detection: Yes No LNAPL DNAPL
 Depth to top (ft.) NA Depth to bottom (ft.) NA
 Thickness (ft.) NA

PURGE VOLUME CALCULATION
 Borehole Volume (gallons) = $3.14 \times (\text{Borehole radius (ft.)})^2 \times (\text{Total Depth of Borehole (ft.)} - \text{Water Level (ft.)}) \times 7.48 \times \text{# Vols.}$
 $= 3.14 \times (0.417)^2 \times (10.15 - 6.61) \times 7.48 \times 3 = \underline{43.39}$ gallons
 Casing Volume (gallons) = $3.14 \times (\text{Casing radius (ft.)})^2 \times (\text{Total Depth of Casing (ft.)} - \text{Water Level (ft.)}) \times 7.48 \times \text{# Vols.}$
 $= 3.14 \times (0.083)^2 \times (10.15 - 6.61) \times 7.48 \times 3 = \underline{1.72}$ gallons
 Total Purge Volume = $(\text{Borehole Volume (gal.)} - \text{Casing Volume (gal.)}) \times 0.45 + \text{Casing Volume (gal.)} = \underline{20.47}$ gallons

PURGE TIME 1926 Start 1947 Stop 16 Elapsed Initial NA gpm **ACTUAL PURGE VOLUME** 4 gallons

FIELD PARAMETER MEASUREMENT							PURGE RATE				ACTUAL PURGE VOLUME			
Minutes Since Pumping Began	Volume Purged	pH	Cond. (umhos/cm)	T °C / °F	Turbidity (ntu)	Other	Minutes Since Pumping Began	Volume Purged	pH	Cond. (umhos/cm)	T °C / °F	Turbidity (ntu)	Other	
No data collected due to oil sheen in well water														

Meter IDs: Horiba Pump: _____ Others: _____
 Observations During Purging (Well Conditions, Color, Odor): Oil sheen on water - fuel odor
 Discharge Water Disposal: Sanitary Sewer Storm Sewer _____ Drum _____ (No. _____) Other: _____
after treatment in water conditioning unit

WELL SAMPLING

SAMPLING METHOD Teflon 2" Quartz Bladder
 Submersible Centrifugal Bladder: Pump No. _____ Other - Type: _____
SAMPLING DISTRIBUTION Sample Date: 8/14/95 Start Time: 2019 Finish Time: 2031
Water level at sample time = 7.76

Sample No.	Volume/Cont.	Analysis Requested	Preservatives	Lab ID	Comments
WG-5504-MW01-02	4-40 mL	8260, AK101	HCL-F	IN-A102/01	for 8260
WG-5504-MW01-02	D-11.0 mL	AK102	VWAS	IN-A102/02	for AK101/AK102
				65B	Sample SB

Duplicate Samples		Blank Samples		Other Samples	
Original Sample No.	Dup. Sample No.	Type	Sample No.	Type	Sample No.

Field QC By: S. Brown Date: 8/14/95

JACOBS ENGINEERING GROUP INC.

GROUNDWATER SAMPLING DATA SHEET

Site Name: SS09 Indian Mountain Well Number: SS09-MW02
 Site ID: SS09 Well Type: (i.e., Monitor, Extraction) Monitor
 Project Number: 05G46200 HADSB Well Material: (i.e., PVC, St. Steel) PVC
 Date: 0/14 Start Time: 1630 Finish Time: 1815 Well Integrity: good
 Sampled By: R. Henry, S. Brown, S. Karim HNU Reading: background

WELL PURGING

PURGE VOLUME

Borehole Radius (in feet) = $\frac{5.12 \text{ inches}}{12 \text{ inches per foot}} = 0.417$
 Total depth of borehole (in feet BTOC) = 10.15
 Water Level Depth (in feet BTOC) = 5.45
 Casing Radius (in feet) = $\frac{1.2 \text{ inches}}{12 \text{ inches per foot}} = 0.083$
 Total depth of casing (in feet BTOC) = 10.15
 Number of well volumes to be purged (# Vols.) = 3

PURGE METHOD

Bailer - Type: Teflon
 Pump Type:
 Submersible Centrifugal Bladder
 Other - Type: _____
 Immiscible Phase Detection: Yes No LNAPL DNAPL
 Depth to top (ft.) NA Depth to bottom (ft.) NA
 Thickness (ft.) NA

PURGE VOLUME CALCULATION

Borehole Volume (gallons) = $3.14 \times (0.417)^2 \times (10.15 - 5.45) \times 7.48 \times 3$
Borehole radius (ft.) (4.7) Total Depth of Borehole (ft.) Water Level (ft.) gallons/ft.³ # Vols.
 = 57.62 gallons

Casing Volume (gallons) = $3.14 \times (0.083)^2 \times (10.15 - 5.45) \times 7.48 \times 3$
Casing radius (ft.) Total Depth of Casing (ft.) Water Level (ft.) gallons/ft.³ # Vols.
 = 2.3 gallons

Total Purge Volume = $(57.62 - 2.3) \times 0.45 + \frac{2.3}{2.3} \times 27.19$ = 27.19 gallons
Borehole Volume (gal.) Casing Volume (gal.) Casing Volume (gal.) Tot. Purge Volume

PURGE TIME

1630 Start _____ Stop _____ Elapsed _____

PURGE RATE

Initial NA gpm

ACTUAL PURGE VOLUME

6 HADSB gallons

FIELD PARAMETER MEASUREMENT

Minutes Since Pumping Began	Volume Purged	pH	Cond. (umhos/cm)	T °C / °F	Turbidity (ntu)	Other DO Sc1	Minutes Since Pumping Began	Volume Purged	pH	Cond. (umhos/cm)	T °C / °F	Turbidity (ntu)	Other
T=1641	2.5	5.76	0.345	5.5	161	56 0.01							
T=1653	3.5	5.83	0.371	5.3	53	15.6 0.01							
Purged		dry											

Meter IDs Horiba: 11020 Pump: NA Others: _____

Observations During Purging (Well Conditions, Color, Odor): No odor

Discharge Water Disposal: Sanitary Sewer Storm Sewer _____ Drum _____ (No. _____) Other: _____
after running through the water conditioning unit

WELL SAMPLING

SAMPLING METHOD

Teflon
 Submersible Centrifugal Bladder: Pump No. _____ Other - Type: _____

SAMPLING DISTRIBUTION Sample Date: 02/14/95 Start Time: 1803 Finish Time: 1810

Sample No.	Volume/Cont.	Analysis Requested	Preservatives	Lab ID	Comments
WG-SS09-MW-02-4-40 mL		260, AK101	HCL for	IN-A102701	
022-11.7cc		AK102	40 mL	IN-A102702	
				IN-A102701	for 8260
				IN-A102702	for AK101/AK102

QUALITY CONTROL SAMPLES

Duplicate Samples		Blank Samples		Other Samples	
Original Sample No.	Dup. Sample No.	Type	Sample No.	Type	Sample No.

Field QC By: S. Brown Date: 0/14/95

JACOBS ENGINEERING GROUP INC.

GROUNDWATER SAMPLING DATA SHEET

Site Name: <u>Indian Mountain</u>	Well Number: <u>CG09-MW03</u>
Site ID: <u>CG09</u>	Well Type: (i.e., Monitor, Extraction) <u>Monitor</u>
Project Number: <u>05646200</u>	Well Material: (i.e., PVC, St. Steel) <u>PVC</u>
Date: <u>8/13/95</u> Start Time: <u>1520</u> Finish Time: <u>1823</u>	Well Integrity: <u>locked - OK</u>
Sampled By: <u>R. Henry, S. Brown, S. Karmi</u>	HNU Reading: _____

WELL PURGING

PURGE VOLUME Borehole Radius (in feet) = <u>5/12</u> inches/12 inches per foot = <u>.417</u> Total depth of borehole (in feet BTOC) = <u>10.10</u> Water Level Depth (in feet BTOC) = <u>7.44</u> Casing Radius (in feet) = <u>1/2</u> inches/12 inches per foot = <u>.083</u> Total depth of casing (in feet BTOC) = 10.14 <u>10.10</u> Number of well volumes to be purged (# Vols.) = _____	PURGE METHOD <input checked="" type="checkbox"/> Bailer - Type: <u>1.5" Teflon</u> Pump Type: _____ _____ Submersible _____ Centrifugal _____ Bladder _____ Other - Type: _____ Immiscible Phase Detection: <u>Yes</u> <u>No</u> LNAPL DNAPL Depth to top (ft.) _____ Depth to bottom (ft.) _____ Thickness (ft.) _____
--	---

PURGE VOLUME CALCULATION

Borehole Volume (gallons) = $3.14 \times (.417)^2 \times (10.10 - 7.44) \times 7.48 \times 3$
 = _____ gallons

Casing Volume (gallons) = $3.14 \times (.083)^2 \times (10.10 - 7.44) \times 7.48 \times 3$
 = _____ gallons

Total Purge Volume = (1086 - _____) X 0.45 + _____ = _____ gallons

Borehole Volume (gal.) Casing Volume (gal.) Tot. Purge Volume

PURGE TIME **PURGE RATE** **ACTUAL PURGE VOLUME**

1520 Start 1553 Stop 33 Elapsed Initial _____ gpm _____ gallons

FIELD PARAMETER MEASUREMENT								Minutes Since Pumping Began	Volume Purged	pH	Cond. (umhos/cm)	T <input checked="" type="checkbox"/> °C / - °F	Turbidity (ntu)	Other
1520	Started purging						1553	7	6.6	0.185	5.5	560	0.070	14.14
1528	2	5.58	0.350	5.7	481	15.18 DO								
1547	6	5.63	0.290	5.7	7	0.0190 Sal								
						0.012 Sal	1819	NA	5.95	0.117	6.0	300	15.610	

Meter IDs: Horiba: 405069 Pump: _____ Others: Sampling Not stable

Observations During Purging (Well Conditions, Color, Odor): _____

Discharge Water Disposal: Sanitary Sewer Storm Sewer _____ Drum (No. _____) Other: _____

after running through water conditioning unit

WELL SAMPLING

SAMPLING METHOD
 _____ Submersible _____ Centrifugal _____ Bladder: Pump No. _____ Other - Type: _____

SAMPLING DISTRIBUTION Sample Date: 08/14/95 Start Time: 1815 Finish Time: 1823

Sample No.	Volume/Cont.	Analysis Requested	Preservatives	Lab ID	Comments
WG-5509-MW03-02	4.40 mL	8260, AK101,	HCl for 40 mL	A102A01	for 8260
	2 - 11 Lamber	AK102		A102B02	for AK101/A12102

QUALITY CONTROL SAMPLES

Duplicate Samples		Blank Samples		Other Samples	
Original Sample No.	Dup. Sample No.	Type	Sample No.	Type	Sample No.

Field QC By: S. Brown Date: 8/13/95 14

JACOBS ENGINEERING GROUP INC.

GROUNDWATER SAMPLING DATA SHEET

Site Name: Indian Mountain LRPS
 Site ID: SS09
 Project Number: 05646200
 Date: 8/14/95 Start Time: 1609 Finish Time: 1835
 Sampled By: S. Brown, R. Hing

Well Number: MW04 (SS09)
 Well Type: (i.e., Monitor, Extraction) Monitor
 Well Material: (i.e., PVC, St. Steel) PVC
 Well Integrity: good
 HNU Reading: 1-2 pm

WELL PURGING

PURGE VOLUME 5 ^{10 inches} ft
 Borehole Radius (in feet) = $\frac{0.85 \text{ inches}}{12 \text{ inches per foot}} = 0.0708$
 Total depth of borehole (in feet BTOC) = 9.50
 Water Level Depth (in feet BTOC) = 6.87
 Casing Radius (in feet) = $\frac{2 \text{ inches}}{12 \text{ inches per foot}} = 0.1667$
 Total depth of casing (in feet BTOC) = 9.50
 Number of well volumes to be purged (# Vols.) = 3

PURGE METHOD
 Bailer - Type: Teflon 2"
 Pump Type:
 Submersible Centrifugal Bladder
 Other - Type: _____
 Immiscible Phase Detection: Yes No LNAPL DNAPL
 Depth to top (ft.) NA Depth to bottom (ft.) NA
 Thickness (ft.) NA

PURGE VOLUME CALCULATION
 Borehole Volume (gallons) = $3.14 \times (0.0708)^2 \times (9.50 - 6.87) \times 7.48 \times 3 = 142.25$ gallons
 Casing Volume (gallons) = $3.14 \times (0.1667)^2 \times (9.50 - 6.87) \times 7.48 \times 3 = 5.80$ gallons
 Total Purge Volume = $(142.25 - 5.80) \times 0.45 + 5.80 = 67.2$ gallons

PURGE RATE
 Initial NA gpm
ACTUAL PURGE VOLUME
15-7 gallons

PURGE TIME
1609 Start 1630 Stop 21 Elapsed

FIELD PARAMETER MEASUREMENT

Minutes Since Pumping Began	Volume Purged	pH	Cond. (umhos/cm)	T °C	Turbidity (ntu)	Other
<u>1613</u>	<u>0.5</u>	<u>5.72</u>	<u>0.232</u>	<u>6.4</u>	<u>49</u>	<u>RG/0</u>
<u>1634</u>	<u>1.0</u>	<u>5.58</u>	<u>0.178</u>	<u>6.4</u>	<u>200</u>	<u>NA/0</u>

Minutes Since Pumping Began	Volume Purged	pH	Cond. (umhos/cm)	T °C	Turbidity (ntu)	Other

Meter IDs Horiba: 405009 Pump: _____ Others: _____
 Observations During Purging (Well Conditions, Color, Odor): Fuel odor
 Discharge Water Disposal: Sanitary Sewer Storm Sewer _____ Drum _____ (No. _____) Other: _____
after running through the water conditioning unit

WELL SAMPLING

SAMPLING METHOD
 Submersible Centrifugal Bladder: Pump No. _____
 Other - Type: _____
SAMPLING DISTRIBUTION Sample Date: 8/14/95 Start Time: 1827 Finish Time: 1835

Sample No.	Volume/Cont.	Analysis Requested	Preservatives	Lab ID	Comments
<u>WG-SS09-MW04</u>	<u>4-40 mL</u>	<u>9260 AK101</u>	<u>HCL F-R</u>	<u>IN-A102901</u>	<u>Subs</u>
<u>02</u>	<u>2-11.7 mL</u>	<u>AK102</u>	<u>40 mL</u>	<u>IN-A102902</u>	<u>for AK101/AK102</u>

QUALITY CONTROL SAMPLES

Duplicate Samples		Blank Samples		Other Samples	
Original Sample No.	Dup. Sample No.	Type	Sample No.	Type	Sample No.

Field QC By: S. Brown Date: 8/14/95

JACOBS ENGINEERING GROUP INC.

Chain of Custody: IN-A102901

GROUNDWATER SAMPLING DATA SHEET

Site Name: <u>Indian Mountain LARS</u>	Well Number: <u>WG-SS09 WG01</u>
Site ID: <u>SS01</u>	Well Type: (i.e., Monitor, Extraction) <u>Water Supply</u>
Project Number: <u>05646200</u>	Well Material: (i.e., PVC, St. Steel) <u>Steel Culvert</u>
Date: <u>8/14/95</u> Start Time: <u>1952</u> Finish Time: <u>2015</u>	Well Integrity: _____
Sampled By: <u>P. Hing, S. Kerni</u>	HNU Reading: <u>None</u>

WELL PURGING

PURGE VOLUME Borehole Radius (in feet) = _____ inches/12 inches per foot = _____ Total depth of borehole (in feet BTOC) = _____ Water Level Depth (in feet BTOC) = <u>8.27</u> Casing Radius (in feet) = _____ inches/12 inches per foot = _____ Total depth of casing (in feet BTOC) = _____ Number of well volumes to be purged (# Vols.) = _____ PURGE VOLUME CALCULATION Borehole Volume (gallons) = $3.14 \times (\text{Borehole radius (ft)})^2 \times (\text{Total Depth of Borehole (ft)} - \text{Water Level (ft)}) \times 7.48 \times \text{# Vols.}$ = _____ gallons Casing Volume (gallons) = $3.14 \times (\text{Casing radius (ft)})^2 \times (\text{Total Depth of Casing (ft)} - \text{Water Level (ft)}) \times 7.48 \times \text{# Vols.}$ = _____ gallons Total Purge Volume = (Borehole Volume (gal.) - Casing Volume (gal.)) X 0.45 + Casing Volume (gal.) = _____ gallons	PURGE METHOD _____ Bailer - Type: _____ Pump Type: _____ Submersible _____ Centrifugal _____ Bladder _____ Other - Type: _____ Immiscible Phase Detection: Yes ___ No ___ LNAPL ___ DNAPL Depth to top (ft.) _____ Depth to bottom (ft.) _____ Thickness (ft.) _____
PURGE TIME Start _____ Stop _____ Elapsed _____	PURGE RATE Initial _____ gpm
ACTUAL PURGE VOLUME _____ gallons	

FIELD PARAMETER MEASUREMENT

Minutes Since Pumping Began	Volume Purged	pH	Cond. (umhos/cm)	T <u>Y</u> °C / °F	Turbidity (ntu)	Other	Minutes Since Pumping Began	Volume Purged	pH	Cond. (umhos/cm)	T _____ °C / °F	Turbidity (ntu)	Other
<u>None</u>		<u>6.5</u>	<u>0.038</u>	<u>9.9</u>	<u>10</u>	<u>Do Sc1</u>							

Meter IDs Horiba: _____ Pump: _____ Others: _____

Observations During Purging (Well Conditions, Color, Odor): No pumping - Water supply well

Discharge Water Disposal: Sanitary Sewer _____ Storm Sewer _____ Drum (No. _____) Other: _____

WELL SAMPLING

SAMPLING METHOD Teflon
 Submersible _____ Centrifugal _____ Bladder: Pump No. _____ Other - Type: _____

SAMPLING DISTRIBUTION Sample Date: 8/14/95 Start Time: 1958 Finish Time: 2013

Sample No.	Volume/Cont.	Analysis Requested	Preservatives	Lab ID	Comments
<u>WG SS09 WG0102</u>	<u>14-40 mL VOA</u>	<u>8260 AK101 AK102</u>	<u>HCLF-VOA</u>	<u>IN-A103001</u>	<u>for 8260</u>
	<u>2-1 HAc-Amb</u>		"	<u>IN-A103002</u>	<u>for AK101/AK102</u>
<u>WG SS09 WG0102</u>	" "	" "	"		

Duplicate Samples		Blank Samples		Other Samples	
Original Sample No.	Dup. Sample No.	Type	Sample No.	Type	Sample No.
<u>WG SS09 WG0102</u>	<u>WG SS09 WG0102</u>				

IN-A104201 for 8260 IN-A104202 for AK101/AK102

Field QC By: J. Hing Date: 8/15/95

JACOBS ENGINEERING GROUP INC.

INDIAN MOUNTAIN LRRS
PROJECT NUMBER 05G46200
WATER LEVEL ELEVATIONS

T.M.L	Well Number	Date	Initials	Water Level (Top of Casing)	Top of Casing Elevation	Land Surface to Water Level	Water Level Elevation	T.D
1349	SS09 MW03	8/9/95	R.H.	7.98				10.15
1358	SS09 MW04	8/9/95	R.H.	7.44				8.00
1407	SS09 MW01	8/8/95	R.H.	7.26				10.16
1416	SS09 MW02	8/8/95	R.H.	6.11				10.14
1690	SS09-WG01	8/8/95	SB	9.30				
1530	River	8/8/95	SB	1.7				
0855	SS09-MW 03	8/9/95	R.H.	8.06				
0900	SS09-MW 04	8/9/95	R.H.	7.54				
0907	SS09-MW-01	8/9/95	R.H.	7.36				
0904	SS09-MW-02	8/9/95	R.H.	6.21				
0903	River	8/9/95	R.H.	1.6				
0910	SS09-W601	8/9/95	R.H.	9.02				
1610	SS09-WG01	8/10/95	SB	9.01				
1611	stream gauge	"	"	1.65				
1616	SS09-MW02	"	"	6.16				
1620	SS09-MW01	"	"	7.31				
1624	SS09-MW03	"	"	8.10				
1629	SS09-MW04	"	"	7.51				
1930	SS09-MW03	8/12/95	SB	8.12				
1942	SS09-MW04	"	SB	7.60	potential (not measurable) sheen			
1946	SS09-MW01	"	SB	7.42				
1951	SS09-MW02	"	SB	6.28				
1958	River	"	SB	1.50				
2000	SS09-WG01	"	SB	9.45				
1600	River	8/14/95	SB	2.45				
1924	SS09-MW01	8/14/95	SB	6.61				
1630	SS09-MW02	"	SB	5.45				
1520	SS09-MW03	"	SB	7.44				
1520	SS09-MW04	"	SB	6.87				
1952	SS09-WG01	"	SB	8.27				

Note: MW03 - 8ppm in casing : 1-2 ppm in Breathing zone.
- no siltation observed when sounding

According to station personnel, it rained heavily over the weekend of 8/8 & 8/6

APPENDIX D
SS10 LABORATORY RESULTS
SS10 SAMPLING FORMS

TABLE D
Laboratory Results
Source Area SS10
Indian Mountain Long Range Radar Station

Matrix	Sample Identification	Test Method	Analyte	Value	Units	Detection Limit	Lab Qualifier	Human Health Risk	Ecological Risk
WS	WS-SS10-SW10	SW8270	1,2,4-TRICHLOROBENZENE	0.00	UG/L	20.0000	U		
WS	WS-SS10-SW10	SW8270	1,2-DICHLOROBENZENE	0.00	UG/L	20.0000	U		
WS	WS-SS10-SW10	SW8270	1,3-DICHLOROBENZENE	0.00	UG/L	20.0000	U		
WS	WS-SS10-SW10	SW8270	1,4-DICHLOROBENZENE	0.00	UG/L	20.0000	U		
WS	WS-SS10-SW10	SW8270	2,4,5-TRICHLOROPHENOL	0.00	UG/L	20.0000	U		
WS	WS-SS10-SW10	SW8270	2,4,6-TRICHLOROPHENOL	0.00	UG/L	20.0000	U		
WS	WS-SS10-SW10	SW8270	2,4-DICHLOROPHENOL	0.00	UG/L	20.0000	U		
WS	WS-SS10-SW10	SW8270	2,4-DIMETHYLPHENOL	0.00	UG/L	20.0000	U		
WS	WS-SS10-SW10	SW8270	2,4-DINITROPHENOL	0.00	UG/L	20.0000	U		
WS	WS-SS10-SW10	SW8270	2,4-DINITROTOLUENE	0.00	UG/L	20.0000	U		
WS	WS-SS10-SW10	SW8270	2,6-DINITROTOLUENE	0.00	UG/L	20.0000	U		
WS	WS-SS10-SW10	SW8270	2-CHLORONAPHTHALENE	0.00	UG/L	30.0000	U		
WS	WS-SS10-SW10	SW8270	2-CHLOROPHENOL	0.00	UG/L	20.0000	U		
WS	WS-SS10-SW10	SW8270	2-METHYLNAPHTHALENE	0.00	UG/L	20.0000	U		
WS	WS-SS10-SW10	SW8270	2-METHYLPHENOL (o-CRESOL)	0.00	UG/L	20.0000	U		
WS	WS-SS10-SW10	SW8270	2-NITROANILINE	0.00	UG/L	20.0000	U		
WS	WS-SS10-SW10	SW8270	2-NITROPHENOL	0.00	UG/L	30.0000	U		
WS	WS-SS10-SW10	SW8270	3,3'-DICHLOROBENZIDINE	0.00	UG/L	20.0000	U		
WS	WS-SS10-SW10	SW8270	3-NITROANILINE	0.00	UG/L	20.0000	U		
WS	WS-SS10-SW10	SW8270	4,6-DINITRO-2-METHYLPHENOL	0.00	UG/L	30.0000	U		
WS	WS-SS10-SW10	SW8270	4-BROMOPHENYL PHENYL ETHER	0.00	UG/L	20.0000	U		
WS	WS-SS10-SW10	SW8270	4-CHLORO-3-METHYLPHENOL	0.00	UG/L	20.0000	U		
WS	WS-SS10-SW10	SW8270	4-CHLOROANILINE	0.00	UG/L	30.0000	U		
WS	WS-SS10-SW10	SW8270	4-CHLOROPHENYL PHENYL ETHER	0.00	UG/L	20.0000	U		
WS	WS-SS10-SW10	SW8270	4-METHYLPHENOL (p-CRESOL)	0.00	UG/L	40.0000	U		
WS	WS-SS10-SW10	SW8270	4-NITROANILINE	0.00	UG/L	20.0000	U		
WS	WS-SS10-SW10	SW8270	4-NITROPHENOL	0.00	UG/L	20.0000	U		
WS	WS-SS10-SW10	SW8270	ACENAPHTHENE	0.00	UG/L	20.0000	U		
WS	WS-SS10-SW10	SW8270	ACENAPHTHYLENE	0.00	UG/L	20.0000	U		
WS	WS-SS10-SW10	SW8270	ANTHRACENE	0.00	UG/L	20.0000	U		
WS	WS-SS10-SW10	SW8270	BENZO(a)ANTHRACENE	0.00	UG/L	10.0000	U		
WS	WS-SS10-SW10	SW8270	BENZO(a)PYRENE	0.00	UG/L	10.0000	U		

TABLE D
Laboratory Results
Source Area SS10
Indian Mountain Long Range Radar Station

Matrix	Sample Identification	Test Method	Analyte	Value	Units	Detection Limit	Lab Qualifier	Human Health Risk	Ecological Risk
WS	WS-SS10-SW10	SW8270	BENZO(b)FLUORANTHENE	0.00	UG/L	10.0000	U		
WS	WS-SS10-SW10	SW8270	BENZO(g,h,i)PERYLENE	0.00	UG/L	10.0000	U		
WS	WS-SS10-SW10	SW8270	BENZO(k)FLUORANTHENE	0.00	UG/L	10.0000	U		
WS	WS-SS10-SW10	SW8270	BENZOIC ACID	0.00	UG/L	200.0000	U		
WS	WS-SS10-SW10	SW8270	BENZYL ALCOHOL	0.00	UG/L	20.0000	U		
WS	WS-SS10-SW10	SW8270	BENZYL BUTYL PHTHALATE	0.00	UG/L	20.0000	U		
WS	WS-SS10-SW10	SW8270	bis(2-CHLOROETHOXY) METHANE	0.00	UG/L	30.0000	U		
WS	WS-SS10-SW10	SW8270	bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	0.00	UG/L	30.0000	U		
WS	WS-SS10-SW10	SW8270	bis(2-CHLOROISOPROPYL) ETHER	0.00	UG/L	30.0000	U		
WS	WS-SS10-SW10	SW8270	bis(2-ETHYLHEXYL) PHTHALATE	0.00	UG/L	20.0000	U		
WS	WS-SS10-SW10	SW8270	CHRYSENE	0.00	UG/L	10.0000	U		
WS	WS-SS10-SW10	SW8270	DI-n-BUTYL PHTHALATE	0.00	UG/L	20.0000	U		
WS	WS-SS10-SW10	SW8270	DI-n-OCTYL PHTHALATE	0.00	UG/L	10.0000	U		
WS	WS-SS10-SW10	SW8270	DIBENZ(a,h)ANTHRACENE	0.00	UG/L	10.0000	U		
WS	WS-SS10-SW10	SW8270	DIBENZOFURAN	0.00	UG/L	20.0000	U		
WS	WS-SS10-SW10	SW8270	DIETHYL PHTHALATE	0.00	UG/L	20.0000	U		
WS	WS-SS10-SW10	SW8270	DIMETHYL PHTHALATE	0.00	UG/L	20.0000	U		
WS	WS-SS10-SW10	SW8270	FLUORANTHENE	0.00	UG/L	20.0000	U		
WS	WS-SS10-SW10	SW8270	FLUORENE	0.00	UG/L	20.0000	U		
WS	WS-SS10-SW10	SW8270	HEXACHLORO BENZENE	0.00	UG/L	10.0000	U		
WS	WS-SS10-SW10	SW8270	HEXACHLORO BUTADIENE	0.00	UG/L	20.0000	U		
WS	WS-SS10-SW10	SW8270	HEXACHLOROCYCLOPENTADIENE	0.00	UG/L	20.0000	U		
WS	WS-SS10-SW10	SW8270	HEXACHLOROETHANE	0.00	UG/L	20.0000	U		
WS	WS-SS10-SW10	SW8270	INDENO(1,2,3-c,d) PYRENE	0.00	UG/L	20.0000	U		
WS	WS-SS10-SW10	SW8270	ISOPHORONE	0.00	UG/L	30.0000	U		
WS	WS-SS10-SW10	SW8270	N-NITROSODI-n-PROPYLAMINE	0.00	UG/L	30.0000	U		
WS	WS-SS10-SW10	SW8270	N-NITROSODIPHENYLAMINE	0.00	UG/L	20.0000	U		
WS	WS-SS10-SW10	SW8270	NAPHTHALENE	0.00	UG/L	30.0000	U		
WS	WS-SS10-SW10	SW8270	NITROBENZENE	0.00	UG/L	30.0000	U		
WS	WS-SS10-SW10	SW8270	PENTACHLOROPHENOL	460.00	UG/L	20.0000		MC CR ZZ	WA WC YY
WS	WS-SS10-SW10	SW8270	PHENANTHRENE	0.00	UG/L	20.0000	U		
WS	WS-SS10-SW10	SW8270	PHENOL	0.00	UG/L	20.0000	U		

TABLE D
Laboratory Results
Source Area SS10
Indian Mountain Long Range Radar Station

Matrix	Sample Identification	Test Method	Analyte	Value	Units	Detection Limit	Lab Qualifier	Human Health Risk	Ecological Risk
WS	WS-SS10-SW10	SW8270	PYRENE	0.00	UG/L	20.0000	U		
WS	WS-SS10-SW11	SW8270	1,2,4-TRICHLOROBENZENE	0.00	UG/L	4.0000	U		
WS	WS-SS10-SW11	SW8270	1,2-DICHLOROBENZENE	0.00	UG/L	4.0000	U		
WS	WS-SS10-SW11	SW8270	1,3-DICHLOROBENZENE	0.00	UG/L	4.0000	U		
WS	WS-SS10-SW11	SW8270	1,4-DICHLOROBENZENE	0.00	UG/L	4.0000	U		
WS	WS-SS10-SW11	SW8270	2,4,5-TRICHLOROPHENOL	0.00	UG/L	4.0000	U		
WS	WS-SS10-SW11	SW8270	2,4,6-TRICHLOROPHENOL	0.00	UG/L	4.0000	U		
WS	WS-SS10-SW11	SW8270	2,4-DICHLOROPHENOL	0.00	UG/L	4.0000	U		
WS	WS-SS10-SW11	SW8270	2,4-DIMETHYLPHENOL	0.00	UG/L	4.0000	U		
WS	WS-SS10-SW11	SW8270	2,4-DINITROPHENOL	0.00	UG/L	3.0000	U		
WS	WS-SS10-SW11	SW8270	2,4-DINITROTOLUENE	0.00	UG/L	3.0000	U		
WS	WS-SS10-SW11	SW8270	2,6-DINITROTOLUENE	0.00	UG/L	4.0000	U		
WS	WS-SS10-SW11	SW8270	2-CHLORONAPHTHALENE	0.00	UG/L	6.0000	U		
WS	WS-SS10-SW11	SW8270	2-CHLOROPHENOL	0.00	UG/L	4.0000	U		
WS	WS-SS10-SW11	SW8270	2-METHYLNAPHTHALENE	0.00	UG/L	4.0000	U		
WS	WS-SS10-SW11	SW8270	2-METHYLPHENOL (o-CRESOL)	0.00	UG/L	4.0000	U		
WS	WS-SS10-SW11	SW8270	2-NITROANILINE	0.00	UG/L	4.0000	U		
WS	WS-SS10-SW11	SW8270	2-NITROPHENOL	0.00	UG/L	5.0000	U		
WS	WS-SS10-SW11	SW8270	3,3'-DICHLOROBENZIDINE	0.00	UG/L	3.0000	U		
WS	WS-SS10-SW11	SW8270	3-NITROANILINE	0.00	UG/L	4.0000	U		
WS	WS-SS10-SW11	SW8270	4,6-DINITRO-2-METHYLPHENOL	0.00	UG/L	5.0000	U		
WS	WS-SS10-SW11	SW8270	4-BROMOPHENYL PHENYL ETHER	0.00	UG/L	3.0000	U		
WS	WS-SS10-SW11	SW8270	4-CHLORO-3-METHYLPHENOL	0.00	UG/L	4.0000	U		
WS	WS-SS10-SW11	SW8270	4-CHLOROANILINE	0.00	UG/L	5.0000	U		
WS	WS-SS10-SW11	SW8270	4-CHLOROPHENYL PHENYL ETHER	0.00	UG/L	3.0000	U		
WS	WS-SS10-SW11	SW8270	4-METHYLPHENOL (p-CRESOL)	0.00	UG/L	7.0000	U		
WS	WS-SS10-SW11	SW8270	4-NITROANILINE	0.00	UG/L	4.0000	U		
WS	WS-SS10-SW11	SW8270	4-NITROPHENOL	0.00	UG/L	3.0000	U		
WS	WS-SS10-SW11	SW8270	ACENAPHTHENE	0.00	UG/L	3.0000	U		
WS	WS-SS10-SW11	SW8270	ACENAPHTHYLENE	0.00	UG/L	4.0000	U		
WS	WS-SS10-SW11	SW8270	ANTHRACENE	0.00	UG/L	3.0000	U		
WS	WS-SS10-SW11	SW8270	BENZO(a)ANTHRACENE	0.00	UG/L	2.0000	U		

TABLE D
Laboratory Results
Source Area SS10
Indian Mountain Long Range Radar Station

Matrix	Sample Identification	Test Method	Analyte	Value	Units	Detection Limit	Lab Qualifier	Human Health Risk	Ecological Risk
WS	WS-SS10-SW11	SW8270	BENZO(a)PYRENE	0.00	UG/L	2.0000	U		
WS	WS-SS10-SW11	SW8270	BENZO(b)FLUORANTHENE	0.00	UG/L	2.0000	U		
WS	WS-SS10-SW11	SW8270	BENZO(g,h,i)PERYLENE	0.00	UG/L	2.0000	U		
WS	WS-SS10-SW11	SW8270	BENZO(k)FLUORANTHENE	0.00	UG/L	2.0000	U		
WS	WS-SS10-SW11	SW8270	BENZOIC ACID	0.00	UG/L	30.0000	U		
WS	WS-SS10-SW11	SW8270	BENZYL ALCOHOL	0.00	UG/L	4.0000	U		
WS	WS-SS10-SW11	SW8270	BENZYL BUTYL PHTHALATE	0.00	UG/L	3.0000	U		
WS	WS-SS10-SW11	SW8270	bis(2-CHLOROETHOXY) METHANE	0.00	UG/L	5.0000	U		
WS	WS-SS10-SW11	SW8270	bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	0.00	UG/L	5.0000	U		
WS	WS-SS10-SW11	SW8270	bis(2-CHLOROISOPROPYL) ETHER	0.00	UG/L	5.0000	U		
WS	WS-SS10-SW11	SW8270	bis(2-ETHYLHEXYL) PHTHALATE	0.00	UG/L	3.0000	U		
WS	WS-SS10-SW11	SW8270	CHRYSENE	0.00	UG/L	2.0000	U		
WS	WS-SS10-SW11	SW8270	DI-n-BUTYL PHTHALATE	0.00	UG/L	3.0000	U		
WS	WS-SS10-SW11	SW8270	DI-n-OCTYL PHTHALATE	0.00	UG/L	2.0000	U		
WS	WS-SS10-SW11	SW8270	DIBENZ(a,h) ANTHRACENE	0.00	UG/L	2.0000	U		
WS	WS-SS10-SW11	SW8270	DIBENZOFURAN	0.00	UG/L	3.0000	U		
WS	WS-SS10-SW11	SW8270	DIETHYL PHTHALATE	0.00	UG/L	4.0000	U		
WS	WS-SS10-SW11	SW8270	DIMETHYL PHTHALATE	0.00	UG/L	4.0000	U		
WS	WS-SS10-SW11	SW8270	FLUORANTHENE	0.00	UG/L	3.0000	U		
WS	WS-SS10-SW11	SW8270	FLUORENE	0.00	UG/L	3.0000	U		
WS	WS-SS10-SW11	SW8270	HEXACHLOROBENZENE	0.00	UG/L	2.0000	U		
WS	WS-SS10-SW11	SW8270	HEXACHLOROBUTADIENE	0.00	UG/L	4.0000	U		
WS	WS-SS10-SW11	SW8270	HEXACHLOROCYCLOPENTADIENE	0.00	UG/L	3.0000	U		
WS	WS-SS10-SW11	SW8270	HEXACHLOROETHANE	0.00	UG/L	4.0000	U		
WS	WS-SS10-SW11	SW8270	INDENO(1,2,3-c,d)PYRENE	0.00	UG/L	4.0000	U		
WS	WS-SS10-SW11	SW8270	ISOPHORONE	0.00	UG/L	5.0000	U		
WS	WS-SS10-SW11	SW8270	N-NITROSODI-n-PROPYLAMINE	0.00	UG/L	5.0000	U		
WS	WS-SS10-SW11	SW8270	N-NITROSODIPHENYLAMINE	0.00	UG/L	3.0000	U		
WS	WS-SS10-SW11	SW8270	NAPHTHALENE	0.00	UG/L	5.0000	U		
WS	WS-SS10-SW11	SW8270	NITROBENZENE	0.00	UG/L	5.0000	U		
WS	WS-SS10-SW11	SW8270	PENTACHLOROPHENOL	42.00	UG/L	3.0000	J	MC CR ZZ	WA WC YY
WS	WS-SS10-SW11	SW8270	PHENANTHRENE	0.00	UG/L	3.0000	U		

TABLE D
Laboratory Results
Source Area SS10
Indian Mountain Long Range Radar Station

Matrix	Sample Identification	Test Method	Analyte	Value	Units	Detection Limit	Lab Qualifier	Human Health Risk	Ecological Risk
WS	WS-SS10-SW11	SW8270	PHENOL	0.00	UG/L	3.0000	U		
WS	WS-SS10-SW11	SW8270	PYRENE	0.00	UG/L	3.0000	U		
WS	WS-SS10-SW12	SW8270	1,2,4-TRICHLOROBENZENE	0.00	UG/L	4.0000	U		
WS	WS-SS10-SW12	SW8270	1,2-DICHLOROBENZENE	0.00	UG/L	4.0000	U		
WS	WS-SS10-SW12	SW8270	1,3-DICHLOROBENZENE	0.00	UG/L	4.0000	U		
WS	WS-SS10-SW12	SW8270	1,4-DICHLOROBENZENE	0.00	UG/L	4.0000	U		
WS	WS-SS10-SW12	SW8270	2,4,5-TRICHLOROPHENOL	0.00	UG/L	4.0000	U		
WS	WS-SS10-SW12	SW8270	2,4,6-TRICHLOROPHENOL	0.00	UG/L	4.0000	U		
WS	WS-SS10-SW12	SW8270	2,4-DICHLOROPHENOL	0.00	UG/L	4.0000	U		
WS	WS-SS10-SW12	SW8270	2,4-DIMETHYLPHENOL	0.00	UG/L	4.0000	U		
WS	WS-SS10-SW12	SW8270	2,4-DINITROPHENOL	0.00	UG/L	3.0000	U		
WS	WS-SS10-SW12	SW8270	2,4-DINITROTOLUENE	0.00	UG/L	3.0000	U		
WS	WS-SS10-SW12	SW8270	2,6-DINITROTOLUENE	0.00	UG/L	4.0000	U		
WS	WS-SS10-SW12	SW8270	2-CHLORONAPHTHALENE	0.00	UG/L	6.0000	U		
WS	WS-SS10-SW12	SW8270	2-CHLOROPHENOL	0.00	UG/L	4.0000	U		
WS	WS-SS10-SW12	SW8270	2-METHYLNAPHTHALENE	0.00	UG/L	4.0000	U		
WS	WS-SS10-SW12	SW8270	2-METHYLPHENOL (o-CRESOL)	0.00	UG/L	4.0000	U		
WS	WS-SS10-SW12	SW8270	2-NITROANILINE	0.00	UG/L	4.0000	U		
WS	WS-SS10-SW12	SW8270	2-NITROPHENOL	0.00	UG/L	5.0000	U		
WS	WS-SS10-SW12	SW8270	3,3'-DICHLOROBENZIDINE	0.00	UG/L	3.0000	U		
WS	WS-SS10-SW12	SW8270	3-NITROANILINE	0.00	UG/L	4.0000	U		
WS	WS-SS10-SW12	SW8270	4,6-DINITRO-2-METHYLPHENOL	0.00	UG/L	5.0000	U		
WS	WS-SS10-SW12	SW8270	4-BROMOPHENYL PHENYL ETHER	0.00	UG/L	3.0000	U		
WS	WS-SS10-SW12	SW8270	4-CHLORO-3-METHYLPHENOL	0.00	UG/L	4.0000	U		
WS	WS-SS10-SW12	SW8270	4-CHLOROANILINE	0.00	UG/L	5.0000	U		
WS	WS-SS10-SW12	SW8270	4-CHLOROPHENYL PHENYL ETHER	0.00	UG/L	3.0000	U		
WS	WS-SS10-SW12	SW8270	4-METHYLPHENOL (p-CRESOL)	0.00	UG/L	7.0000	U		
WS	WS-SS10-SW12	SW8270	4-NITROANILINE	0.00	UG/L	4.0000	U		
WS	WS-SS10-SW12	SW8270	4-NITROPHENOL	0.00	UG/L	3.0000	U		
WS	WS-SS10-SW12	SW8270	ACENAPHTHENE	0.00	UG/L	3.0000	U		
WS	WS-SS10-SW12	SW8270	ACENAPHTHYLENE	0.00	UG/L	4.0000	U		
WS	WS-SS10-SW12	SW8270	ANTHRACENE	0.00	UG/L	3.0000	U		

TABLE D
Laboratory Results
Source Area SS10
Indian Mountain Long Range Radar Station

Matrix	Sample Identification	Test Method	Analyte	Value	Units	Detection Limit	Lab Qualifier	Human Health Risk	Ecological Risk
WS	WS-SS10-SW12	SW8270	BENZO(a)ANTHRACENE	0.00	UG/L	2.0000	U		
WS	WS-SS10-SW12	SW8270	BENZO(a)PYRENE	0.00	UG/L	2.0000	U		
WS	WS-SS10-SW12	SW8270	BENZO(b)FLUORANTHENE	0.00	UG/L	2.0000	U		
WS	WS-SS10-SW12	SW8270	BENZO(g,h,i)PERYLENE	0.00	UG/L	2.0000	U		
WS	WS-SS10-SW12	SW8270	BENZO(k)FLUORANTHENE	0.00	UG/L	2.0000	U		
WS	WS-SS10-SW12	SW8270	BENZOIC ACID	0.00	UG/L	30.0000	U		
WS	WS-SS10-SW12	SW8270	BENZYL ALCOHOL	0.00	UG/L	4.0000	U		
WS	WS-SS10-SW12	SW8270	BENZYL BUTYL PHTHALATE	0.00	UG/L	3.0000	U		
WS	WS-SS10-SW12	SW8270	bis(2-CHLOROETHOXY) METHANE	0.00	UG/L	5.0000	U		
WS	WS-SS10-SW12	SW8270	bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	0.00	UG/L	5.0000	U		
WS	WS-SS10-SW12	SW8270	bis(2-CHLOROISOPROPYL) ETHER	0.00	UG/L	5.0000	U		
WS	WS-SS10-SW12	SW8270	bis(2-ETHYLHEXYL) PHTHALATE	0.00	UG/L	3.0000	U		
WS	WS-SS10-SW12	SW8270	CHRYSENE	0.00	UG/L	2.0000	U		
WS	WS-SS10-SW12	SW8270	DI-n-BUTYL PHTHALATE	0.00	UG/L	3.0000	U		
WS	WS-SS10-SW12	SW8270	DI-n-OCTYLPHTHALATE	0.00	UG/L	2.0000	U		
WS	WS-SS10-SW12	SW8270	DIBENZ(a,h)ANTHRACENE	0.00	UG/L	2.0000	U		
WS	WS-SS10-SW12	SW8270	DIBENZOFURAN	0.00	UG/L	3.0000	U		
WS	WS-SS10-SW12	SW8270	DIETHYL PHTHALATE	0.00	UG/L	4.0000	U		
WS	WS-SS10-SW12	SW8270	DIMETHYL PHTHALATE	0.00	UG/L	4.0000	U		
WS	WS-SS10-SW12	SW8270	FLUORANTHENE	0.00	UG/L	3.0000	U		
WS	WS-SS10-SW12	SW8270	FLUORENE	0.00	UG/L	3.0000	U		
WS	WS-SS10-SW12	SW8270	HEXACHLOROBENZENE	0.00	UG/L	2.0000	U		
WS	WS-SS10-SW12	SW8270	HEXACHLOROBUTADIENE	0.00	UG/L	4.0000	U		
WS	WS-SS10-SW12	SW8270	HEXACHLOROCYCLOPENTADIENE	0.00	UG/L	3.0000	U		
WS	WS-SS10-SW12	SW8270	HEXACHLOROETHANE	0.00	UG/L	4.0000	U		
WS	WS-SS10-SW12	SW8270	INDENO(1,2,3-c,d) PYRENE	0.00	UG/L	4.0000	U		
WS	WS-SS10-SW12	SW8270	ISOPHORONE	0.00	UG/L	5.0000	U		
WS	WS-SS10-SW12	SW8270	N-NITROSODI-n-PROPYLAMINE	0.00	UG/L	5.0000	U		
WS	WS-SS10-SW12	SW8270	N-NITROSODIPHENYLAMINE	0.00	UG/L	3.0000	U		
WS	WS-SS10-SW12	SW8270	NAPHTHALENE	0.00	UG/L	5.0000	U		
WS	WS-SS10-SW12	SW8270	NITROBENZENE	0.00	UG/L	5.0000	U		
WS	WS-SS10-SW12	SW8270	PENTACHLOROPHENOL	0.00	UG/L	3.0000	U		

TABLE D
Laboratory Results
Source Area SS10
Indian Mountain Long Range Radar Station

Matrix	Sample Identification	Test Method	Analyte	Value	Units	Detection Limit	Lab Qualifier	Human Health Risk	Ecological Risk
WS	WS-SS10-SW12	SW8270	PHENANTHRENE	0.00	UG/L	3.0000	U		
WS	WS-SS10-SW12	SW8270	PHENOL	0.00	UG/L	3.0000	U		
WS	WS-SS10-SW12	SW8270	PYRENE	0.00	UG/L	3.0000	U		

Notes:

- ARAR = applicable or relevant and appropriate requirements
- COPC = Contaminant of Potential Concern
- COPEC = Contaminant of Potential Ecological Concern
- CR = exceeds residential carcinogenic 10^{-6} water only - human health Preliminary Remediation Goal
- MC = exceeds maximum contaminant level
- U = undetected (analyzed for but undetected)
- UG/L = micrograms per liter
- WA = AWQC (federal ambient water quality criteria) acute - ecological/ARAR
- WC = AWQC (federal ambient water quality criteria) chronic - ecological/ARAR
- WS = surface water
- YY = retained as an ecological COPEC
- ZZ = retained as a human health COPEC

SURFACE WATER/SEDIMENT SAMPLING FIELD DATA FORM

PROJECT NAME: INDIAN MOUNTAIN LRRS

PROJECT NUMBER: 05G46200

SITE ID: SS10

Loc ID SS10-SD04

SAMPLE ID: WS-SS10-SW10

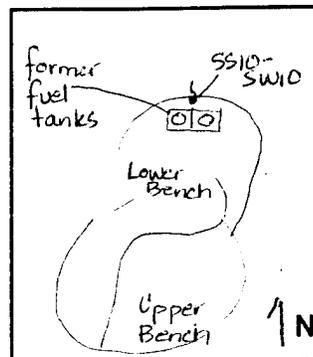
LOT CONTROL NO. IN-A1011

DATE: 08/13/95

TIME: 1329

WEATHER: 50°F, overcast, breezy

FIELD SAMPLING TEAM: _____



SITE ID: _____ LOC ID: _____ SAMPLE NUMBER: _____

COLLECTION DATE: _____ COLLECTION TIME: _____ LOT CONTROL NO: _____

SAMPLERS: R. Henry, S. Karmi

MATRIX: SURFACE WATER SEDIMENT _____

SAMPLING TECHNIQUE: immersion of bottle

SAMPLED FROM: SHORE: WADED: _____ OTHER: _____

SAMPLING LOCATION: STREAM: _____ LAKE/POND: _____ TIDAL POOL: _____

SEEP: CREEK: _____ OTHER: _____

FLOW RATE (if applicable): _____ gpm MEASURED: _____ ESTIMATED: _____

FIELD ANALYTICAL PARAMETERS:

Sample No. & QC Type	Redox Pot. (mV)	Water Temp (°F/°C)	Dissolved Oxygen (mg/L)	pH S.U.	Salinity (%)	Specific Conduct. (mS/cm)	Turbidity (NTU)
<u>Not collected</u>							

SEDIMENT DESCRIPTION _____

QC TYPE: REAL: _____ MS: MSD: LR: _____ DUP: _____ RNS: _____

COC # A1011 Requested analyses: E270

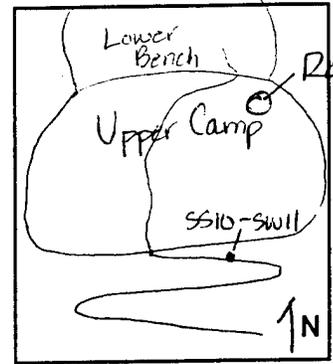
COMMENTS: Lab analysis for E270 or PCP only. Same location as 1999 sample SS10-SW04

Field QC By: Sarah Brown Sarah Brown Date: 8/13/95
Print Name Signature

Site Supervisor QC By: _____ Date: _____
Print Name Signature

SURFACE WATER/SEDIMENT SAMPLING FIELD DATA FORM

PROJECT NAME: INDIAN MOUNTAIN LRRS
 PROJECT NUMBER: 05G46200 Loc ID SS10-SD07
 SITE ID: SS10
 SAMPLE ID: WS-SS10-SW11 LOT CONTROL NO. IN-A1013
 DATE: 08/13/95 TIME: 1400
 WEATHER: 50°F, windy, cloudy
 FIELD SAMPLING TEAM: R. Henry, S. Karmi



SITE ID: _____ LOC ID: _____ SAMPLE NUMBER: _____
 COLLECTION DATE: _____ COLLECTION TIME: _____ LOT CONTROL NO: _____

SAMPLERS: _____

MATRIX: SURFACE WATER SEDIMENT _____

SAMPLING TECHNIQUE: immersion

SAMPLED FROM: SHORE: WADED: _____ OTHER: _____

SAMPLING LOCATION: STREAM: _____ LAKE/POND: _____ TIDAL POOL: _____

SEEP: CREEK: _____ OTHER: _____

FLOW RATE (if applicable): _____ gpm MEASURED: _____ ESTIMATED: _____

FIELD ANALYTICAL PARAMETERS:

Sample No. & QC Type	Redox Pot. (mV)	Water Temp (°F/°C)	Dissolved Oxygen (mg/L)	pH S.U.	Salinity (%)	Specific Conduct. (mS/cm)	Turbidity (NTU)
Not measured							

SEDIMENT DESCRIPTION _____

QC TYPE: REAL: _____ MS: _____ MSD: _____ LR: _____ DUP: _____ RNS: _____

COC # IN-A1013 Requested analyses: 0.270/PCP

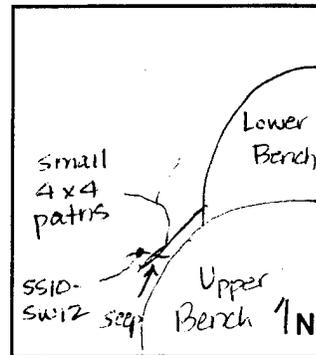
COMMENTS: Same location as 1994 samples SE-SS10-SD07 and WS-SS10-SW07

Field QC By: Sarah Brown Sarah Brown Date: 8/13/95
Print Name Signature

Site Supervisor QC By: _____ Date: _____
Print Name Signature

SURFACE WATER/SEDIMENT SAMPLING FIELD DATA FORM

PROJECT NAME: INDIAN MOUNTAIN LRRS
 PROJECT NUMBER: 05G46200
 SITE ID: SS10 LOC ID SS10-SW12
 SAMPLE ID: WS-SS10-SW12 LOT CONTROL NO. IN-A1012
 DATE: 08/13/95 TIME: 1344
 WEATHER: Cloudy, 50°F, windy
 FIELD SAMPLING TEAM: R. Henry, G. Karni



SITE ID: _____ LOC ID: _____ SAMPLE NUMBER: _____
 COLLECTION DATE: _____ COLLECTION TIME: _____ LOT CONTROL NO: _____

SAMPLERS: _____

MATRIX: SURFACE WATER SEDIMENT _____

SAMPLING TECHNIQUE: immersion

SAMPLED FROM: SHORE: WADED: _____ OTHER: _____

SAMPLING LOCATION: STREAM: _____ LAKE/POND: _____ TIDAL POOL: _____

SEEP: CREEK: _____ OTHER: _____

FLOW RATE (if applicable): _____ gpm MEASURED: _____ ESTIMATED: _____

FIELD ANALYTICAL PARAMETERS:

Sample No. & QC Type	Redox Pot. (mV)	Water Temp (°F/°C)	Dissolved Oxygen (mg/L)	pH S.U.	Salinity (%)	Specific Conduct. (mS/cm)	Turbidity (NTU)
Not measured							

SEDIMENT DESCRIPTION _____

QC TYPE: REAL: _____ MS: _____ MSD: _____ LR: _____ DUP: _____ RNS: _____

COC # IN-A1012 Requested analyses: P270 / PCP

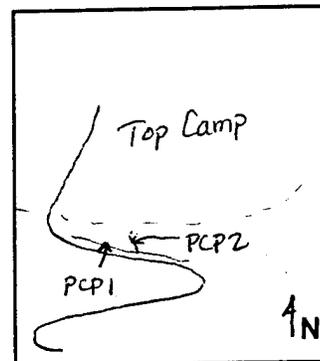
COMMENTS: Same location as SDO1-SDO9/SW09 from 1994

Field QC By: Sarah Brown Sarah Brown Date: 8/13/95
Print Name Signature

Site Supervisor QC By: _____ Date: _____
Print Name Signature

SURFACE WATER/SEDIMENT SAMPLING FIELD DATA FORM

PROJECT NAME: INDIAN MOUNTAIN LRRS
 PROJECT NUMBER: 05G46200
 SITE ID: SS10
 SAMPLE ID: PCP1 & PCP2 LOT CONTROL NO. test kit
 DATE: 8/9/95 TIME: 1345
 WEATHER: overcast, rainy, 50°F
 FIELD SAMPLING TEAM: S. Brown, S. Karmi, P. Striebiel



SITE ID: _____ LOC ID: _____ SAMPLE NUMBER: _____
 COLLECTION DATE: _____ COLLECTION TIME: _____ LOT CONTROL NO: _____

SAMPLERS: _____

MATRIX: SURFACE WATER SEDIMENT _____

SAMPLING TECHNIQUE: ~~sum~~ ^{SB} Submersion

SAMPLED FROM: SHORE: WADED: _____ OTHER: _____

SAMPLING LOCATION: STREAM: PCP1 LAKE/POND: _____ TIDAL POOL: _____

SEEP: PCP2 CREEK: _____ OTHER: _____

FLOW RATE (if applicable): _____ gpm MEASURED: _____ ESTIMATED: _____

FIELD ANALYTICAL PARAMETERS:

Sample No. & QC Type	Redox Pot. (mV)	Water Temp (°F/°C)	Dissolved Oxygen (mg/L)	pH S.U.	Salinity (%)	Specific Conduct. (mS/cm)	Turbidity (NTU)
Not Measured							

SEDIMENT DESCRIPTION _____

QC TYPE: REAL: _____ MS: _____ MSD: _____ LR: _____ DUP: _____ RNS: _____

COC # _____ Requested analyses: _____

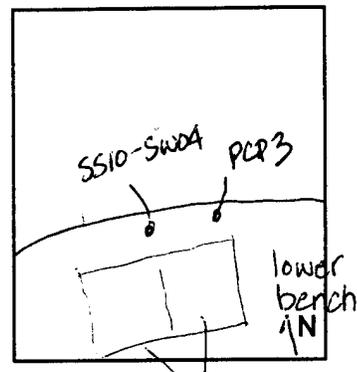
COMMENTS:
test kit analyses for PCP completed. Locations are nearby the SD01-SW07 location from 1994 Results: PCP1 → ND, PCP2 → ND

Field QC By: Sarah Brown Sarah Brown Date: 8/9/95
Print Name Signature

Site Supervisor QC By: _____ Date: _____
Print Name Signature

SURFACE WATER/SEDIMENT SAMPLING FIELD DATA FORM

PROJECT NAME: INDIAN MOUNTAIN LRRS
 PROJECT NUMBER: 05G46200
 SITE ID: SS10
 SAMPLE ID: PCP3 & SS10-SW04 LOT CONTROL NO. test kit
 DATE: 8/9/95 TIME: 1355
 WEATHER: raining 50° F, light breeze
 FIELD SAMPLING TEAM: S. Brown, P. Striebick, S. Karmi



SITE ID: _____ LOC ID: _____ SAMPLE NUMBER: _____
 COLLECTION DATE: _____ COLLECTION TIME: _____ LOT CONTROL NO: _____

SAMPLERS: _____

MATRIX: SURFACE WATER SEDIMENT _____

SAMPLING TECHNIQUE: immersion of sample container

SAMPLED FROM: SHORE: WADED: _____ OTHER: _____

SAMPLING LOCATION: STREAM: LAKE/POND: _____ TIDAL POOL: _____

SEEP: _____ CREEK: _____ OTHER: _____

FLOW RATE (if applicable): _____ gpm MEASURED: _____ ESTIMATED: _____

FIELD ANALYTICAL PARAMETERS:

Sample No. & QC Type	Redox Pot. (mV)	Water Temp (°F/°C)	Dissolved Oxygen (mg/L)	pH S.U.	Salinity (%)	Specific Conduct. (mS/cm)	Turbidity (NTU)
Not measured							

SEDIMENT DESCRIPTION _____

QC TYPE: REAL: _____ MS: _____ MSD: _____ LR: _____ DUP: _____ RNS: _____

COC # _____ Requested analyses: _____

COMMENTS: Test kit samples for PCP analysis. Both locations are just due north of former tank area. PCP3 may be stream/seep that leads to SW01-SW03. Results: PCP3 borderline at 10ppm, SW04 - ND

Field QC By: Sarah Brown Sarah Brown Date: 8/9/95
Print Name Signature

Site Supervisor QC By: _____ Date: _____
Print Name Signature

APPENDIX E
SS11 LABORATORY RESULTS
SS11 SAMPLING FORMS

TABLE E
Laboratory Results
Source Area SS11
Indian Mountain Long Range Radar Station

Matrix	Sample Identification	Test Method	Analyte	Value	Units	Detection Limit	Lab Qualifier	Ecological Risk
SS	SO-SS11-SS01	SW8240	1,1,1-TRICHLOROETHANE	0.00	MG/KG	0.0006	U	
SS	SO-SS11-SS01	SW8240	1,1,2,2-TETRACHLOROETHANE	0.00	MG/KG	0.0009	U	
SS	SO-SS11-SS01	SW8240	1,1,2-TRICHLOROETHANE	0.00	MG/KG	0.0015	U	
SS	SO-SS11-SS01	SW8240	1,1-DICHLOROETHANE	0.00	MG/KG	0.0003	U	
SS	SO-SS11-SS01	SW8240	1,1-DICHLOROETHENE	0.00	MG/KG	0.0006	U	
SS	SO-SS11-SS01	SW8270	1,2,4-TRICHLOROBENZENE	0.00	MG/KG	0.2000	U	
SS	SO-SS11-SS01	SW8270	1,2-DICHLOROBENZENE	0.00	MG/KG	0.2000	U	
SS	SO-SS11-SS01	SW8240	1,2-DICHLOROETHANE	0.00	MG/KG	0.0009	U	
SS	SO-SS11-SS01	SW8240	1,2-DICHLOROPROPANE	0.00	MG/KG	0.0005	U	
SS	SO-SS11-SS01	SW8270	1,3-DICHLOROBENZENE	0.00	MG/KG	0.2000	U	
SS	SO-SS11-SS01	SW8270	1,4-DICHLOROBENZENE	0.00	MG/KG	0.2000	U	
SS	SO-SS11-SS01	SW8270	2,4,5-TRICHLOROPHENOL	0.00	MG/KG	0.2000	U	
SS	SO-SS11-SS01	SW8270	2,4,6-TRICHLOROPHENOL	0.00	MG/KG	0.2000	U	
SS	SO-SS11-SS01	SW8270	2,4-DICHLOROPHENOL	0.00	MG/KG	0.2000	U	
SS	SO-SS11-SS01	SW8270	2,4-DIMETHYLPHENOL	0.00	MG/KG	0.2000	U	
SS	SO-SS11-SS01	SW8270	2,4-DINITROPHENOL	0.00	MG/KG	0.1000	U	
SS	SO-SS11-SS01	SW8270	2,4-DINITROTOLUENE	0.00	MG/KG	0.1000	U	
SS	SO-SS11-SS01	SW8270	2,6-DINITROTOLUENE	0.00	MG/KG	0.2000	U	
SS	SO-SS11-SS01	SW8240	2-CHLOROETHYL VINYL ETHER	0.00	MG/KG	0.0015	U	
SS	SO-SS11-SS01	SW8270	2-CHLORONAPHTHALENE	0.00	MG/KG	0.2000	U	
SS	SO-SS11-SS01	SW8270	2-CHLOROPHENOL	0.00	MG/KG	0.2000	U	
SS	SO-SS11-SS01	SW8240	2-HEXANONE	0.00	MG/KG	0.0030	U	
SS	SO-SS11-SS01	SW8270	2-METHYLNAPHTHALENE	0.00	MG/KG	0.2000	U	
SS	SO-SS11-SS01	SW8270	2-METHYLPHENOL (o-CRESOL)	0.00	MG/KG	0.2000	U	
SS	SO-SS11-SS01	SW8270	2-NITROANILINE	0.00	MG/KG	0.2000	U	
SS	SO-SS11-SS01	SW8270	2-NITROPHENOL	0.00	MG/KG	0.2000	U	
SS	SO-SS11-SS01	SW8270	3,3-DICHLOROBENZIDINE	0.00	MG/KG	0.1000	U	
SS	SO-SS11-SS01	SW8270	3-NITROANILINE	0.00	MG/KG	0.2000	U	
SS	SO-SS11-SS01	SW8270	4,6-DINITRO-2-METHYLPHENOL	0.00	MG/KG	0.2000	U	
SS	SO-SS11-SS01	SW8270	4-BROMOPHENYL PHENYL ETHER	0.00	MG/KG	0.1000	U	
SS	SO-SS11-SS01	SW8270	4-CHLORO-3-METHYLPHENOL	0.00	MG/KG	0.2000	U	
SS	SO-SS11-SS01	SW8270	4-CHLOROANILINE	0.00	MG/KG	0.2000	U	
SS	SO-SS11-SS01	SW8270	4-CHLOROPHENYL PHENYL ETHER	0.00	MG/KG	0.1000	U	

TABLE E
Laboratory Results
Source Area SS11
Indian Mountain Long Range Radar Station

Matrix	Sample Identification	Test Method	Analyte	Value	Units	Detection Limit	Lab Qualifier	Ecological Risk
SS	SO-SS11-SS01	SW8270	4-METHYLPHENOL (p-CRESOL)	0.00	MG/KG	0.3000	U	
SS	SO-SS11-SS01	SW8270	4-NITROANILINE	0.00	MG/KG	0.2000	U	
SS	SO-SS11-SS01	SW8270	4-NITROPHENOL	0.00	MG/KG	0.1000	U	
SS	SO-SS11-SS01	SW8270	ACENAPHTHENE	0.00	MG/KG	0.1000	U	
SS	SO-SS11-SS01	SW8270	ACENAPHTHYLENE	0.00	MG/KG	0.2000	U	
SS	SO-SS11-SS01	SW8240	ACETONE	0.00	MG/KG	0.0080	U	
SS	SO-SS11-SS01	SW8270	ANTHRACENE	0.00	MG/KG	0.1000	U	
SS	SO-SS11-SS01	SW8240	BENZENE	0.00	MG/KG	0.0006	U	
SS	SO-SS11-SS01	SW8270	BENZO(a)ANTHRACENE	0.00	MG/KG	0.1000	U	
SS	SO-SS11-SS01	SW8270	BENZO(a)PYRENE	0.00	MG/KG	0.1000	U	
SS	SO-SS11-SS01	SW8270	BENZO(b)FLUORANTHENE	0.00	MG/KG	0.1000	U	
SS	SO-SS11-SS01	SW8270	BENZO(g,h,i)PERYLENE	0.00	MG/KG	0.1000	U	
SS	SO-SS11-SS01	SW8270	BENZO(k)FLUORANTHENE	0.00	MG/KG	0.1000	U	
SS	SO-SS11-SS01	SW8270	BENZOIC ACID	0.00	MG/KG	1.0000	U	
SS	SO-SS11-SS01	SW8270	BENZYL ALCOHOL	0.00	MG/KG	0.2000	U	
SS	SO-SS11-SS01	SW8270	BENZYL BUTYL PHTHALATE	0.00	MG/KG	0.1000	U	
SS	SO-SS11-SS01	SW8270	bis(2-CHLOROETHOXY) METHANE	0.00	MG/KG	0.2000	U	
SS	SO-SS11-SS01	SW8270	bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	0.00	MG/KG	0.2000	U	
SS	SO-SS11-SS01	SW8270	bis(2-CHLOROISOPROPYL) ETHER	0.00	MG/KG	0.2000	U	
SS	SO-SS11-SS01	SW8270	bis(2-ETHYLHEXYL) PHTHALATE	0.50	MG/KG	0.1000	J	YY
SS	SO-SS11-SS01	SW8240	BROMODICHLOROMETHANE	0.00	MG/KG	0.0003	U	
SS	SO-SS11-SS01	SW8240	BROMOFORM	0.00	MG/KG	0.0004	U	
SS	SO-SS11-SS01	SW8240	BROMOMETHANE	0.00	MG/KG	0.0015	U	
SS	SO-SS11-SS01	SW8240	CARBON DISULFIDE	0.00	MG/KG	0.0020	U	
SS	SO-SS11-SS01	SW8240	CARBON TETRACHLORIDE	0.00	MG/KG	0.0009	U	
SS	SO-SS11-SS01	SW8240	CHLOROBENZENE	0.00	MG/KG	0.0004	U	
SS	SO-SS11-SS01	SW8240	CHLOROETHANE	0.00	MG/KG	0.0010	U	
SS	SO-SS11-SS01	SW8240	CHLOROFORM	0.00	MG/KG	0.0010	U	
SS	SO-SS11-SS01	SW8240	CHLOROMETHANE	0.00	MG/KG	0.0015	U	
SS	SO-SS11-SS01	SW8270	CHRYSENE	0.00	MG/KG	0.1000	U	
SS	SO-SS11-SS01	SW8240	cis-1,2-DICHLOROETHYLENE	0.00	MG/KG	0.0010	U	
SS	SO-SS11-SS01	SW8240	cis-1,3-DICHLOROPROPENE	0.00	MG/KG	0.0008	U	
SS	SO-SS11-SS01	SW8270	DI-n-BUTYL PHTHALATE	0.00	MG/KG	0.1000	U	

TABLE E
Laboratory Results
Source Area SS11
Indian Mountain Long Range Radar Station

Matrix	Sample Identification	Test Method	Analyte	Value	Units	Detection Limit	Lab Qualifier	Ecological Risk
SS	SO-SS11-SS01	SW8270	DI-n-OCTYLPHTHALATE	0.00	MG/KG	0.1000	U	
SS	SO-SS11-SS01	SW8270	DIBENZ(a,h)ANTHRACENE	0.00	MG/KG	0.1000	U	
SS	SO-SS11-SS01	SW8270	DIBENZOFURAN	0.00	MG/KG	0.1000	U	
SS	SO-SS11-SS01	SW8240	DIBROMOCHLOROMETHANE	0.00	MG/KG	0.0008	U	
SS	SO-SS11-SS01	AK102	DIESEL RANGE ORGANICS	0.00	MG/KG	0.9000	U	
SS	SO-SS11-SS01	SW8270	DIETHYL PHTHALATE	0.00	MG/KG	0.2000	U	
SS	SO-SS11-SS01	SW8270	DIMETHYL PHTHALATE	0.00	MG/KG	0.2000	U	
SS	SO-SS11-SS01	SW8240	ETHYLBENZENE	0.00	MG/KG	0.0005	U	
SS	SO-SS11-SS01	SW8270	FLUORANTHENE	0.00	MG/KG	0.1000	U	
SS	SO-SS11-SS01	SW8270	FLUORENE	0.00	MG/KG	0.1000	U	
SS	SO-SS11-SS01	AK101	GASOLINE RANGE ORGANICS	0.00	MG/KG	0.0800	U	
SS	SO-SS11-SS01	SW8270	HEXACHLOROBENZENE	0.00	MG/KG	0.1000	U	
SS	SO-SS11-SS01	SW8270	HEXACHLOROBUTADIENE	0.00	MG/KG	0.2000	U	
SS	SO-SS11-SS01	SW8270	HEXACHLOROCYCLOPENTADIENE	0.00	MG/KG	0.1000	U	
SS	SO-SS11-SS01	SW8270	HEXACHLOROETHANE	0.00	MG/KG	0.2000	U	
SS	SO-SS11-SS01	SW8270	INDENO(1,2,3-c,d) PYRENE	0.00	MG/KG	0.2000	U	
SS	SO-SS11-SS01	SW8270	ISOPHORONE	0.00	MG/KG	0.2000	U	
SS	SO-SS11-SS01	SW8240	METHYL ETHYL KETONE (2-BUTANONE)	0.00	MG/KG	0.0050	U	
SS	SO-SS11-SS01	SW8240	METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	0.00	MG/KG	0.0020	U	
SS	SO-SS11-SS01	SW8240	METHYLENE CHLORIDE	0.00	MG/KG	0.0008	U	
SS	SO-SS11-SS01	SW8270	N-NITROSODI-n-PROPYLAMINE	0.00	MG/KG	0.2000	U	
SS	SO-SS11-SS01	SW8270	N-NITROSODIPHENYLAMINE	0.00	MG/KG	0.1000	U	
SS	SO-SS11-SS01	SW8270	NAPHTHALENE	0.00	MG/KG	0.2000	U	
SS	SO-SS11-SS01	SW8270	NITROBENZENE	0.00	MG/KG	0.2000	U	
SS	SO-SS11-SS01	SW8270	PENTACHLOROPHENOL	0.00	MG/KG	0.1000	U	
SS	SO-SS11-SS01	SW8270	PHENANTHRENE	0.00	MG/KG	0.1000	U	
SS	SO-SS11-SS01	SW8270	PHENOL	0.00	MG/KG	0.1000	U	
SS	SO-SS11-SS01	SW8270	PYRENE	0.00	MG/KG	0.1000	U	
SS	SO-SS11-SS01	SW8240	STYRENE	0.00	MG/KG	0.0015	U	
SS	SO-SS11-SS01	SW8240	TETRACHLOROETHYLENE (PCE)	0.00	MG/KG	0.0005	U	
SS	SO-SS11-SS01	SW8240	TOLUENE	0.00	MG/KG	0.0004	U	
SS	SO-SS11-SS01	SW8240	TOTAL XYLENES	0.00	MG/KG	0.0030	U	
SS	SO-SS11-SS01	SW8240	trans-1,2-DICHLOROETHENE	0.00	MG/KG	0.0004	U	

TABLE E
Laboratory Results
Source Area SS11
Indian Mountain Long Range Radar Station

Matrix	Sample Identification	Test Method	Analyte	Value	Units	Detection Limit	Lab Qualifier	Ecological Risk
SS	SO-SS11-SS01	SW8240	trans-1,3-DICHLOROPROPENE	0.00	MG/KG	0.0004	U	
SS	SO-SS11-SS01	SW8240	TRICHLOROETHYLENE (TCE)	0.00	MG/KG	0.0005	U	
SS	SO-SS11-SS01	SW8240	VINYL ACETATE	0.00	MG/KG	0.0010	U	
SS	SO-SS11-SS01	SW8240	VINYL CHLORIDE	0.00	MG/KG	0.0010	U	
SS	SO-SS11-SS02	SW8240	1,1,1-TRICHLOROETHANE	0.00	MG/KG	0.0007	U	
SS	SO-SS11-SS02	SW8240	1,1,2,2-TETRACHLOROETHANE	0.00	MG/KG	0.0009	U	
SS	SO-SS11-SS02	SW8240	1,1,2-TRICHLOROETHANE	0.00	MG/KG	0.0015	U	
SS	SO-SS11-SS02	SW8240	1,1-DICHLOROETHANE	0.00	MG/KG	0.0003	U	
SS	SO-SS11-SS02	SW8240	1,1-DICHLOROETHENE	0.00	MG/KG	0.0007	U	
SS	SO-SS11-SS02	SW8270	1,2,4-TRICHLOROBENZENE	0.00	MG/KG	0.2000	U	
SS	SO-SS11-SS02	SW8270	1,2-DICHLOROBENZENE	0.00	MG/KG	0.2000	U	
SS	SO-SS11-SS02	SW8240	1,2-DICHLOROETHANE	0.00	MG/KG	0.0009	U	
SS	SO-SS11-SS02	SW8240	1,2-DICHLOROPROPANE	0.00	MG/KG	0.0005	U	
SS	SO-SS11-SS02	SW8270	1,3-DICHLOROBENZENE	0.00	MG/KG	0.2000	U	
SS	SO-SS11-SS02	SW8270	1,4-DICHLOROBENZENE	0.00	MG/KG	0.2000	U	
SS	SO-SS11-SS02	SW8270	2,4,5-TRICHLOROPHENOL	0.00	MG/KG	0.2000	U	
SS	SO-SS11-SS02	SW8270	2,4,6-TRICHLOROPHENOL	0.00	MG/KG	0.2000	U	
SS	SO-SS11-SS02	SW8270	2,4-DICHLOROPHENOL	0.00	MG/KG	0.2000	U	
SS	SO-SS11-SS02	SW8270	2,4-DIMETHYLPHENOL	0.00	MG/KG	0.1000	U	
SS	SO-SS11-SS02	SW8270	2,4-DINITROPHENOL	0.00	MG/KG	0.1000	U	
SS	SO-SS11-SS02	SW8270	2,4-DINITROTOLUENE	0.00	MG/KG	0.1000	U	
SS	SO-SS11-SS02	SW8270	2,6-DINITROTOLUENE	0.00	MG/KG	0.2000	U	
SS	SO-SS11-SS02	SW8240	2-CHLOROETHYL VINYL ETHER	0.00	MG/KG	0.0015	U	
SS	SO-SS11-SS02	SW8270	2-CHLORONAPHTHALENE	0.00	MG/KG	0.2000	U	
SS	SO-SS11-SS02	SW8270	2-CHLOROPHENOL	0.00	MG/KG	0.2000	U	
SS	SO-SS11-SS02	SW8240	2-HEXANONE	0.00	MG/KG	0.0040	U	
SS	SO-SS11-SS02	SW8270	2-METHYLNAPHTHALENE	0.00	MG/KG	0.2000	U	
SS	SO-SS11-SS02	SW8270	2-METHYLPHENOL (o-CRESOL)	0.00	MG/KG	0.2000	U	
SS	SO-SS11-SS02	SW8270	2-NITROANILINE	0.00	MG/KG	0.2000	U	
SS	SO-SS11-SS02	SW8270	2-NITROPHENOL	0.00	MG/KG	0.2000	U	
SS	SO-SS11-SS02	SW8270	3,3'-DICHLOROBENZIDINE	0.00	MG/KG	0.1000	U	
SS	SO-SS11-SS02	SW8270	3-NITROANILINE	0.00	MG/KG	0.2000	U	
SS	SO-SS11-SS02	SW8270	4,6-DINITRO-2-METHYLPHENOL	0.00	MG/KG	0.2000	U	

TABLE E
Laboratory Results
Source Area SS11
Indian Mountain Long Range Radar Station

Matrix	Sample Identification	Test Method	Analyte	Value	Units	Detection Limit	Lab Qualifier	Ecological Risk
SS	SO-SS11-SS02	SW8270	4-BROMOPHENYL PHENYL ETHER	0.00	MG/KG	0.1000	U	
SS	SO-SS11-SS02	SW8270	4-CHLORO-3-METHYLPHENOL	0.00	MG/KG	0.2000	U	
SS	SO-SS11-SS02	SW8270	4-CHLOROANILINE	0.00	MG/KG	0.2000	U	
SS	SO-SS11-SS02	SW8270	4-CHLOROPHENYL PHENYL ETHER	0.00	MG/KG	0.1000	U	
SS	SO-SS11-SS02	SW8270	4-METHYLPHENOL (p-CRESOL)	0.00	MG/KG	0.4000	U	
SS	SO-SS11-SS02	SW8270	4-NITROANILINE	0.00	MG/KG	0.2000	U	
SS	SO-SS11-SS02	SW8270	4-NITROPHENOL	0.00	MG/KG	0.1000	U	
SS	SO-SS11-SS02	SW8270	ACENAPHTHENE	0.00	MG/KG	0.1000	U	
SS	SO-SS11-SS02	SW8270	ACENAPHTHYLENE	0.00	MG/KG	0.2000	U	
SS	SO-SS11-SS02	SW8240	ACETONE	0.00	MG/KG	0.0080	U	
SS	SO-SS11-SS02	SW8270	ANTHRACENE	0.00	MG/KG	0.1000	U	
SS	SO-SS11-SS02	SW8240	BENZENE	0.00	MG/KG	0.0007	U	
SS	SO-SS11-SS02	SW8270	BENZO(a)ANTHRACENE	0.00	MG/KG	0.1000	U	
SS	SO-SS11-SS02	SW8270	BENZO(a)PYRENE	0.00	MG/KG	0.1000	U	
SS	SO-SS11-SS02	SW8270	BENZO(b)FLUORANTHENE	0.00	MG/KG	0.1000	U	
SS	SO-SS11-SS02	SW8270	BENZO(g,h,i)PERYLENE	0.00	MG/KG	0.1000	U	
SS	SO-SS11-SS02	SW8270	BENZO(k)FLUORANTHENE	0.00	MG/KG	0.1000	U	
SS	SO-SS11-SS02	SW8270	BENZOIC ACID	0.00	MG/KG	1.0000	U	
SS	SO-SS11-SS02	SW8270	BENZYL ALCOHOL	0.00	MG/KG	0.2000	U	
SS	SO-SS11-SS02	SW8270	BENZYL BUTYL PHTHALATE	0.00	MG/KG	0.1000	U	
SS	SO-SS11-SS02	SW8270	bis(2-CHLOROETHOXY) METHANE	0.00	MG/KG	0.2000	U	
SS	SO-SS11-SS02	SW8270	bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	0.00	MG/KG	0.2000	U	
SS	SO-SS11-SS02	SW8270	bis(2-CHLOROISOPROPYL) ETHER	0.00	MG/KG	0.2000	U	
SS	SO-SS11-SS02	SW8270	bis(2-ETHYLHEXYL) PHTHALATE	0.00	MG/KG	0.1000	U	
SS	SO-SS11-SS02	SW8240	BROMODICHLOROMETHANE	0.00	MG/KG	0.0003	U	
SS	SO-SS11-SS02	SW8240	BROMOFORM	0.00	MG/KG	0.0004	U	
SS	SO-SS11-SS02	SW8240	BROMOMETHANE	0.00	MG/KG	0.0015	U	
SS	SO-SS11-SS02	SW8240	CARBON DISULFIDE	0.00	MG/KG	0.0020	U	
SS	SO-SS11-SS02	SW8240	CARBON TETRACHLORIDE	0.00	MG/KG	0.0009	U	
SS	SO-SS11-SS02	SW8240	CHLOROBENZENE	0.00	MG/KG	0.0004	U	
SS	SO-SS11-SS02	SW8240	CHLOROETHANE	0.00	MG/KG	0.0010	U	
SS	SO-SS11-SS02	SW8240	CHLOROFORM	0.00	MG/KG	0.0010	U	
SS	SO-SS11-SS02	SW8240	CHLOROMETHANE	0.00	MG/KG	0.0015	U	

TABLE E
Laboratory Results
Source Area SS11
Indian Mountain Long Range Radar Station

Matrix	Sample Identification	Test Method	Analyte	Value	Units	Detection Limit	Lab Qualifier	Ecological Risk
SS	SO-SS11-SS02	SW8270	CHRYSENE	0.00	MG/KG	0.1000	U	
SS	SO-SS11-SS02	SW8240	cis-1,2-DICHLOROETHYLENE	0.00	MG/KG	0.0010	U	
SS	SO-SS11-SS02	SW8240	cis-1,3-DICHLOROPROPENE	0.00	MG/KG	0.0008	U	
SS	SO-SS11-SS02	SW8270	DI-n-BUTYL PHTHALATE	0.00	MG/KG	0.1000	U	
SS	SO-SS11-SS02	SW8270	DI-n-OCTYL PHTHALATE	0.00	MG/KG	0.1000	U	
SS	SO-SS11-SS02	SW8270	DIBENZ(a,h)ANTHRACENE	0.00	MG/KG	0.1000	U	
SS	SO-SS11-SS02	SW8270	DIBENZOFURAN	0.00	MG/KG	0.1000	U	
SS	SO-SS11-SS02	SW8240	DIBROMOCHLOROMETHANE	0.00	MG/KG	0.0008	U	
SS	SO-SS11-SS02	AK102	DIESEL RANGE ORGANICS	1.70	MG/KG	1.0000	J	
SS	SO-SS11-SS02	SW8270	DIETHYL PHTHALATE	0.00	MG/KG	0.2000	U	
SS	SO-SS11-SS02	SW8270	DIMETHYL PHTHALATE	0.00	MG/KG	0.2000	U	
SS	SO-SS11-SS02	SW8240	ETHYLBENZENE	0.00	MG/KG	0.0005	U	
SS	SO-SS11-SS02	SW8270	FLUORANTHENE	0.00	MG/KG	0.1000	U	
SS	SO-SS11-SS02	SW8270	FLUORENE	0.00	MG/KG	0.1000	U	
SS	SO-SS11-SS02	AK101	GASOLINE RANGE ORGANICS	0.00	MG/KG	0.0800	U	
SS	SO-SS11-SS02	SW8270	HEXACHLOROBENZENE	0.00	MG/KG	0.1000	U	
SS	SO-SS11-SS02	SW8270	HEXACHLOROBUTADIENE	0.00	MG/KG	0.2000	U	
SS	SO-SS11-SS02	SW8270	HEXACHLOROCYCLOPENTADIENE	0.00	MG/KG	0.1000	U	
SS	SO-SS11-SS02	SW8270	HEXACHLOROETHANE	0.00	MG/KG	0.2000	U	
SS	SO-SS11-SS02	SW8270	INDENO(1,2,3-c,d)PYRENE	0.00	MG/KG	0.2000	U	
SS	SO-SS11-SS02	SW8270	ISOPHORONE	0.00	MG/KG	0.2000	U	
SS	SO-SS11-SS02	SW8240	METHYL ETHYL KETONE (2-BUTANONE)	0.00	MG/KG	0.0050	U	
SS	SO-SS11-SS02	SW8240	METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	0.00	MG/KG	0.0020	U	
SS	SO-SS11-SS02	SW8240	METHYLENE CHLORIDE	0.00	MG/KG	0.0008	U	
SS	SO-SS11-SS02	SW8270	N-NITROSODI-n-PROPYLAMINE	0.00	MG/KG	0.2000	U	
SS	SO-SS11-SS02	SW8270	N-NITROSODIPHENYLAMINE	0.00	MG/KG	0.1000	U	
SS	SO-SS11-SS02	SW8270	NAPHTHALENE	0.00	MG/KG	0.2000	U	
SS	SO-SS11-SS02	SW8270	NITROBENZENE	0.00	MG/KG	0.2000	U	
SS	SO-SS11-SS02	SW8270	PENTACHLOROPHENOL	0.00	MG/KG	0.1000	U	
SS	SO-SS11-SS02	SW8270	PHENANTHRENE	0.00	MG/KG	0.1000	U	
SS	SO-SS11-SS02	SW8270	PHENOL	0.00	MG/KG	0.1000	U	
SS	SO-SS11-SS02	SW8270	PYRENE	0.00	MG/KG	0.1000	U	
SS	SO-SS11-SS02	SW8240	STYRENE	0.00	MG/KG	0.0015	U	

TABLE E
Laboratory Results
Source Area SS11
Indian Mountain Long Range Radar Station

Matrix	Sample Identification	Test Method	Analyte	Value	Units	Detection Limit	Lab Qualifier	Ecological Risk
SS	SO-SS11-SS02	SW8240	TETRACHLOROETHYLENE (PCE)	0.00	MG/KG	0.0005	U	
SS	SO-SS11-SS02	SW8240	TOLUENE	0.00	MG/KG	0.0004	U	
SS	SO-SS11-SS02	SW8240	TOTAL XYLENES	0.00	MG/KG	0.0040	U	
SS	SO-SS11-SS02	SW8240	trans-1,2-DICHLOROETHENE	0.00	MG/KG	0.0004	U	
SS	SO-SS11-SS02	SW8240	trans-1,3-DICHLOROPROPENE	0.00	MG/KG	0.0004	U	
SS	SO-SS11-SS02	SW8240	TRICHLOROETHYLENE (TCE)	0.00	MG/KG	0.0005	U	
SS	SO-SS11-SS02	SW8240	VINYL ACETATE	0.00	MG/KG	0.0010	U	
SS	SO-SS11-SS02	SW8240	VINYL CHLORIDE	0.00	MG/KG	0.0010	U	
SS	SO-SS11-SS03	SW8240	1,1,1-TRICHLOROETHANE	0.00	MG/KG	0.0020	U	
SS	SO-SS11-SS03	SW8240	1,1,2,2-TETRACHLOROETHANE	0.00	MG/KG	0.0025	U	
SS	SO-SS11-SS03	SW8240	1,1,2-TRICHLOROETHANE	0.00	MG/KG	0.0027	U	
SS	SO-SS11-SS03	SW8240	1,1-DICHLOROETHANE	0.00	MG/KG	0.0007	U	
SS	SO-SS11-SS03	SW8240	1,1-DICHLOROETHENE	0.00	MG/KG	0.0020	U	
SS	SO-SS11-SS03	SW8270	1,2,4-TRICHLOROBENZENE	0.00	MG/KG	50.0000	U	
SS	SO-SS11-SS03	SW8270	1,2-DICHLOROBENZENE	0.00	MG/KG	50.0000	U	
SS	SO-SS11-SS03	SW8240	1,2-DICHLOROETHANE	0.00	MG/KG	0.0025	U	
SS	SO-SS11-SS03	SW8240	1,2-DICHLOROPROPANE	0.00	MG/KG	0.0017	U	
SS	SO-SS11-SS03	SW8270	1,3-DICHLOROBENZENE	0.00	MG/KG	50.0000	U	
SS	SO-SS11-SS03	SW8270	1,4-DICHLOROBENZENE	0.00	MG/KG	50.0000	U	
SS	SO-SS11-SS03	SW8270	2,4,5-TRICHLOROPHENOL	0.00	MG/KG	50.0000	U	
SS	SO-SS11-SS03	SW8270	2,4,6-TRICHLOROPHENOL	0.00	MG/KG	50.0000	U	
SS	SO-SS11-SS03	SW8270	2,4-DICHLOROPHENOL	0.00	MG/KG	50.0000	U	
SS	SO-SS11-SS03	SW8270	2,4-DIMETHYLPHENOL	0.00	MG/KG	50.0000	U	
SS	SO-SS11-SS03	SW8270	2,4-DINITROPHENOL	0.00	MG/KG	25.0000	U	
SS	SO-SS11-SS03	SW8270	2,4-DINITROTOLUENE	0.00	MG/KG	25.0000	U	
SS	SO-SS11-SS03	SW8270	2,6-DINITROTOLUENE	0.00	MG/KG	50.0000	U	
SS	SO-SS11-SS03	SW8240	2-CHLOROETHYL VINYL ETHER	0.00	MG/KG	0.0027	U	
SS	SO-SS11-SS03	SW8270	2-CHLORONAPHTHALENE	0.00	MG/KG	50.0000	U	
SS	SO-SS11-SS03	SW8270	2-CHLOROPHENOL	0.00	MG/KG	50.0000	U	
SS	SO-SS11-SS03	SW8240	2-HEXANONE	0.00	MG/KG	0.0080	U	
SS	SO-SS11-SS03	SW8270	2-METHYLNAPHTHALENE	0.00	MG/KG	50.0000	U	
SS	SO-SS11-SS03	SW8270	2-METHYLPHENOL (o-CRESOL)	0.00	MG/KG	50.0000	U	
SS	SO-SS11-SS03	SW8270	2-NITROANILINE	0.00	MG/KG	50.0000	U	

TABLE E
Laboratory Results
Source Area SS11
Indian Mountain Long Range Radar Station

Matrix	Sample Identification	Test Method	Analyte	Value	Units	Detection Limit	Lab Qualifier	Ecological Risk
SS	SO-SS11-SS03	SW8270	2-NITROPHENOL	0.00	MG/KG	50.0000	U	
SS	SO-SS11-SS03	SW8270	3,3'-DICHLOROBENZIDINE	0.00	MG/KG	25.0000	U	
SS	SO-SS11-SS03	SW8270	3-NITROANILINE	0.00	MG/KG	50.0000	U	
SS	SO-SS11-SS03	SW8270	4,6-DINITRO-2-METHYLPHENOL	0.00	MG/KG	50.0000	U	
SS	SO-SS11-SS03	SW8270	4-BROMOPHENYL PHENYL ETHER	0.00	MG/KG	25.0000	U	
SS	SO-SS11-SS03	SW8270	4-CHLORO-3-METHYLPHENOL	0.00	MG/KG	50.0000	U	
SS	SO-SS11-SS03	SW8270	4-CHLOROANILINE	0.00	MG/KG	50.0000	U	
SS	SO-SS11-SS03	SW8270	4-CHLOROPHENYL PHENYL ETHER	0.00	MG/KG	25.0000	U	
SS	SO-SS11-SS03	SW8270	4-METHYLPHENOL (p-CRESOL)	0.00	MG/KG	75.0000	U	
SS	SO-SS11-SS03	SW8270	4-NITROANILINE	0.00	MG/KG	50.0000	U	
SS	SO-SS11-SS03	SW8270	4-NITROPHENOL	0.00	MG/KG	25.0000	U	
SS	SO-SS11-SS03	SW8270	ACENAPHTHENE	0.00	MG/KG	25.0000	U	
SS	SO-SS11-SS03	SW8270	ACENAPHTHYLENE	0.00	MG/KG	50.0000	U	
SS	SO-SS11-SS03	SW8240	ACETONE	0.04	MG/KG	0.0220	J	YY
SS	SO-SS11-SS03	SW8270	ANTHRACENE	0.00	MG/KG	25.0000	U	
SS	SO-SS11-SS03	SW8240	BENZENE	0.00	MG/KG	0.0020	U	
SS	SO-SS11-SS03	SW8270	BENZO(a)ANTHRACENE	0.00	MG/KG	25.0000	U	
SS	SO-SS11-SS03	SW8270	BENZO(a)PYRENE	0.00	MG/KG	25.0000	U	
SS	SO-SS11-SS03	SW8270	BENZO(b)FLUORANTHENE	0.00	MG/KG	25.0000	U	
SS	SO-SS11-SS03	SW8270	BENZO(g,h,i)PERYLENE	0.00	MG/KG	25.0000	U	
SS	SO-SS11-SS03	SW8270	BENZO(k)FLUORANTHENE	0.00	MG/KG	25.0000	U	
SS	SO-SS11-SS03	SW8270	BENZOIC ACID	0.00	MG/KG	200.0000	U	
SS	SO-SS11-SS03	SW8270	BENZYL ALCOHOL	0.00	MG/KG	50.0000	U	
SS	SO-SS11-SS03	SW8270	BENZYL BUTYL PHTHALATE	0.00	MG/KG	25.0000	U	
SS	SO-SS11-SS03	SW8270	bis(2-CHLOROETHOXY) METHANE	0.00	MG/KG	50.0000	U	
SS	SO-SS11-SS03	SW8270	bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	0.00	MG/KG	50.0000	U	
SS	SO-SS11-SS03	SW8270	bis(2-CHLOROISOPROPYL) ETHER	0.00	MG/KG	50.0000	U	
SS	SO-SS11-SS03	SW8270	bis(2-ETHYLHEXYL) PHTHALATE	0.00	MG/KG	25.0000	U	
SS	SO-SS11-SS03	SW8240	BROMODICHLOROMETHANE	0.00	MG/KG	0.0007	U	
SS	SO-SS11-SS03	SW8240	BROMOFORM	0.00	MG/KG	0.0015	U	
SS	SO-SS11-SS03	SW8240	BROMOMETHANE	0.00	MG/KG	0.0027	U	
SS	SO-SS11-SS03	SW8240	CARBON DISULFIDE	0.00	MG/KG	0.0050	U	
SS	SO-SS11-SS03	SW8240	CARBON TETRACHLORIDE	0.00	MG/KG	0.0025	U	

TABLE E
Laboratory Results
Source Area SS11
Indian Mountain Long Range Radar Station

Matrix	Sample Identification	Test Method	Analyte	Value	Units	Detection Limit	Lab Qualifier	Ecological Risk
SS	SO-SS11-SS03	SW8240	CHLOROBENZENE	0.00	MG/KG	0.0015	U	
SS	SO-SS11-SS03	SW8240	CHLOROETHANE	0.00	MG/KG	0.0030	U	
SS	SO-SS11-SS03	SW8240	CHLOROFORM	0.00	MG/KG	0.0030	U	
SS	SO-SS11-SS03	SW8240	CHLOROMETHANE	0.00	MG/KG	0.0027	U	
SS	SO-SS11-SS03	SW8270	CHRYSENE	0.00	MG/KG	25.0000	U	
SS	SO-SS11-SS03	SW8240	cis-1,2-DICHLOROETHYLENE	0.00	MG/KG	0.0030	U	
SS	SO-SS11-SS03	SW8240	cis-1,3-DICHLOROPROPENE	0.00	MG/KG	0.0022	U	
SS	SO-SS11-SS03	SW8270	DI-n-BUTYL PHTHALATE	0.00	MG/KG	25.0000	U	
SS	SO-SS11-SS03	SW8270	DI-n-OCTYLPHTHALATE	0.00	MG/KG	25.0000	U	
SS	SO-SS11-SS03	SW8270	DIBENZ(a,h)ANTHRACENE	0.00	MG/KG	25.0000	U	
SS	SO-SS11-SS03	SW8270	DIBENZOFURAN	0.00	MG/KG	25.0000	U	
SS	SO-SS11-SS03	SW8240	DIBROMOCHLOROMETHANE	0.00	MG/KG	0.0022	U	
SS	SO-SS11-SS03	AK102	DIESEL RANGE ORGANICS	9300.00	MG/KG	2.5000		
SS	SO-SS11-SS03	SW8270	DIETHYL PHTHALATE	0.00	MG/KG	50.0000	U	
SS	SO-SS11-SS03	SW8270	DIMETHYL PHTHALATE	0.00	MG/KG	50.0000	U	
SS	SO-SS11-SS03	SW8240	ETHYLBENZENE	0.00	MG/KG	0.0017	U	
SS	SO-SS11-SS03	SW8270	FLUORANTHENE	0.00	MG/KG	25.0000	U	
SS	SO-SS11-SS03	SW8270	FLUORENE	0.00	MG/KG	25.0000	U	
SS	SO-SS11-SS03	AK101	GASOLINE RANGE ORGANICS	4500.00	MG/KG	100.0000		
SS	SO-SS11-SS03	SW8270	HEXACHLOROBENZENE	0.00	MG/KG	25.0000	U	
SS	SO-SS11-SS03	SW8270	HEXACHLOROBUTADIENE	0.00	MG/KG	50.0000	U	
SS	SO-SS11-SS03	SW8270	HEXACHLOROCYCLOPENTADIENE	0.00	MG/KG	25.0000	U	
SS	SO-SS11-SS03	SW8270	HEXACHLOROETHANE	0.00	MG/KG	50.0000	U	
SS	SO-SS11-SS03	SW8270	INDENO(1,2,3-c,d)PYRENE	0.00	MG/KG	50.0000	U	
SS	SO-SS11-SS03	SW8270	ISOPHORONE	0.00	MG/KG	50.0000	U	
SS	SO-SS11-SS03	SW8240	METHYL ETHYL KETONE (2-BUTANONE)	0.00	MG/KG	0.0150	U	
SS	SO-SS11-SS03	SW8240	METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	0.00	MG/KG	0.0050	U	
SS	SO-SS11-SS03	SW8240	METHYLENE CHLORIDE	0.00	MG/KG	0.0022	U	
SS	SO-SS11-SS03	SW8270	N-NITROSODI-n-PROPYLAMINE	0.00	MG/KG	50.0000	U	
SS	SO-SS11-SS03	SW8270	N-NITROSODIPHENYLAMINE	0.00	MG/KG	25.0000	U	
SS	SO-SS11-SS03	SW8270	NAPHTHALENE	0.00	MG/KG	50.0000	U	
SS	SO-SS11-SS03	SW8270	NITROBENZENE	0.00	MG/KG	50.0000	U	
SS	SO-SS11-SS03	SW8270	PENTACHLOROPHENOL	0.00	MG/KG	25.0000	U	

TABLE E
Laboratory Results
Source Area SS11
Indian Mountain Long Range Radar Station

Matrix	Sample Identification	Test Method	Analyte	Value	Units	Detection Limit	Lab Qualifier	Ecological Risk
SS	SO-SS11-SS03	SW8270	PHENANTHRENE	0.00	MG/KG	25.0000	U	
SS	SO-SS11-SS03	SW8270	PHENOL	0.00	MG/KG	25.0000	U	
SS	SO-SS11-SS03	SW8270	PYRENE	0.00	MG/KG	25.0000	U	
SS	SO-SS11-SS03	SW8240	STYRENE	0.00	MG/KG	0.0027	U	
SS	SO-SS11-SS03	SW8240	TETRACHLOROETHYLENE (PCE)	0.00	MG/KG	0.0017	U	
SS	SO-SS11-SS03	SW8240	TOLUENE	0.00	MG/KG	0.0015	U	
SS	SO-SS11-SS03	SW8240	TOTAL XYLENES	0.00	MG/KG	0.0080	U	
SS	SO-SS11-SS03	SW8240	trans-1,2-DICHLOROETHENE	0.00	MG/KG	0.0015	U	
SS	SO-SS11-SS03	SW8240	trans-1,3-DICHLOROPROPENE	0.00	MG/KG	0.0015	U	
SS	SO-SS11-SS03	SW8240	TRICHLOROETHYLENE (TCE)	0.00	MG/KG	0.0017	U	
SS	SO-SS11-SS03	SW8240	VINYL ACETATE	0.00	MG/KG	0.0030	U	
SS	SO-SS11-SS03	SW8240	VINYL CHLORIDE	0.00	MG/KG	0.0030	U	
SS	SO-SS11-SS04	AK102	DIESEL RANGE ORGANICS	8600.00	MG/KG	450.0000		
SS	SO-SS11-SS04	AK101	GASOLINE RANGE ORGANICS	570.00	MG/KG	0.9000		
SS	SO-SS11-SS05	AK102	DIESEL RANGE ORGANICS	270.00	MG/KG	15.0000		
SS	SO-SS11-SS05	AK101	GASOLINE RANGE ORGANICS	0.00	MG/KG	0.0900	U	

Notes:

COPEC = Contaminant of Potential Ecological Concern

J = estimated

MG/KG = milligrams per kilogram

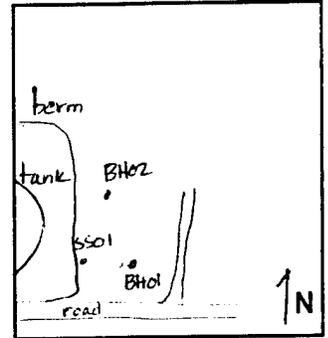
SS = surface soil

U = undetected (analyzed for but undetected)

YY = retained as an ecological COPEC

SURFACE AND SUBSURFACE SOIL SAMPLING FIELD DATA FORM

PROJECT NAME: INDIAN MOUNTAIN LRSS
 PROJECT NUMBER: 05G46200
 SITE ID: SS11 Loc ID SS11-SS01
 SAMPLE ID: SS-SS11-SS01 LOT CONTROL NO. IN-A1021
 DATE: 08/13/95 TIME: 1630
 WEATHER: S. Br^{SB} Overcast, 65°F
 FIELD SAMPLING TEAM: S. Brown, P. Striebich



SAMPLING LOCATION:

SE of large fuel tank on runway road, 51.5' SW
of SS11-BHO1 and 60.5' SW of SS11-BHO2. Same location as
test kit sample TK02

COMPOSITE: YES NO COMPOSITE DESCRIPTION: _____

DEPTH OF SAMPLING INTERVAL: .5 ft VOLUME COLLECTED: 2 8 oz jars for
VOL, SVOL, DRO & GRC
 HEADSPACE READINGS: _____ analysis

DESCRIPTION OF SOIL MATERIALS:

~~Peat ^{wrong - SS02} dark brown organic soil near surface and~~
~~grading into light brown silty soil, 10-20% small gravel~~

FIELD TEST KIT SCREENING TPH: X PCB: _____

SAMPLE IDS:	RESULTS:
SS11- TK02	< 50, > 200
Detection limits : 50, 200 ppm GRC	
82, 330 ppm DRC	

DATE AND TIME OF TEST KIT SCREENING 8/10/95 R. Henry

COMPLETED BY:

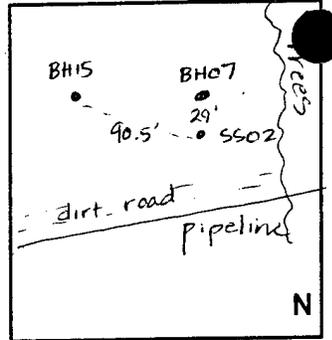
Sarah Brown Sarah Brown 8/13/95
 PRINT NAME SIGNATURE DATE

CHECKED BY:

 PRINT NAME SIGNATURE DATE

SURFACE AND SUBSURFACE SOIL SAMPLING FIELD DATA FORM

PROJECT NAME: INDIAN MOUNTAIN LRRS
 PROJECT NUMBER: 05G46200
 SITE ID: SS11
 SAMPLE ID: SS11-402 LOT CONTROL NO. IN-A1022
 DATE: 08/13/95 TIME: 1632
 WEATHER: Overcast, 65°F
 FIELD SAMPLING TEAM: S. Brown, P. Strickbich



SAMPLING LOCATION: 29' south of SS11-BHO7 and 90.5' ESE of BHI5,
on right side of opening in trees

COMPOSITE: YES NO COMPOSITE DESCRIPTION: _____

DEPTH OF SAMPLING INTERVAL: .5' VOLUME COLLECTED: 2-8 oz jars for
 VOC, SVOC, DRD & GRD analysis
 HEADSPACE READINGS: _____

DESCRIPTION OF SOIL MATERIALS:
Peat-dark brown organic soil near surface (to 3-4 in)
and grading into light brown silty soil. Some small
gravel - rounded

FIELD TEST KIT SCREENING TPH: PCB: _____

SAMPLE IDS:	RESULTS:
SS11-T1408	> 50, < 200
Detection limits: 50, 200 ppm	GRC
82, 330 ppm	DRC

DATE AND TIME OF TEST KIT SCREENING 08/13/95

COMPLETED BY:
Sarah Brown Sarah Brown 8/23/95
 PRINT NAME SIGNATURE DATE

CHECKED BY:

 PRINT NAME SIGNATURE DATE

SURFACE AND SUBSURFACE SOIL SAMPLING FIELD DATA FORM

PROJECT NAME: INDIAN MOUNTAIN LRRS

PROJECT NUMBER: 05G46200

SITE ID: SS11

LOC. ID: SS11-SS03

SAMPLE ID: SO-SS11-SS03

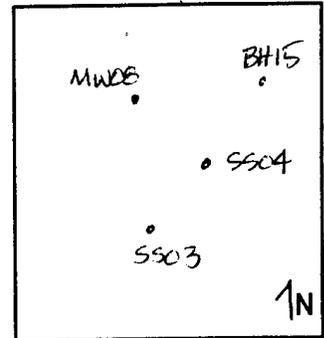
LOT CONTROL NO. IN-A1023

DATE: 08/13/95

TIME: 1635 1655 313

WEATHER: 65° F and cloudy 1635

FIELD SAMPLING TEAM: S. Brown, P. Strubich



SAMPLING LOCATION:

50' SW of location SS04, NE of SS05, Located on left (west) side of treeless area

COMPOSITE: YES NO COMPOSITE DESCRIPTION: _____

DEPTH OF SAMPLING INTERVAL: .5' VOLUME COLLECTED: 2-8 oz jars for VOC, SVOC; DRO & GRO analysis

HEADSPACE READINGS: _____

DESCRIPTION OF SOIL MATERIALS:

Peat material, degrading grass and roots in dark brown soil near surface and grading into medium brown silty, gravelly soil by .5' bgs.

FIELD TEST KIT SCREENING TPH: X PCB: _____

SAMPLE IDS:	RESULTS:
<u>SS11-TK09</u>	<u>not det detected</u>
<u>detection limits: 50, 200 ppm GRO</u>	
<u>82, 330 ppm DRO</u>	

DATE AND TIME OF TEST KIT SCREENING 8/13/95

COMPLETED BY:

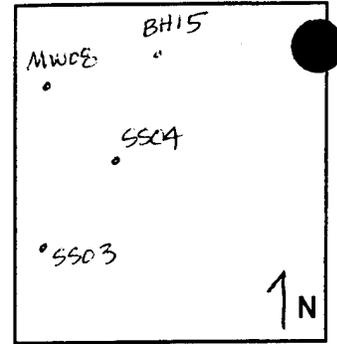
Sarah Brown Sarah Brown 8/13/95
 PRINT NAME SIGNATURE DATE

CHECKED BY:

 PRINT NAME SIGNATURE DATE

SURFACE AND SUBSURFACE SOIL SAMPLING FIELD DATA FORM

PROJECT NAME: INDIAN MOUNTAIN LRRS
 PROJECT NUMBER: 05G46200
 SITE ID: SS11 LOC ID: SS11-SS04
 SAMPLE ID: SO-SS11-SS04 LOT CONTROL NO. IN-A1024
 DATE: 08/13/95 TIME: 1640
 WEATHER: Overcast, 65°F
 FIELD SAMPLING TEAM: S. Brown, P. Striebich



SAMPLING LOCATION:

In west/central area of treeless zone. 59' SE of SS11-MW08 and 52.5' SW of SS11-BH15

COMPOSITE: YES/NO COMPOSITE DESCRIPTION: _____

DEPTH OF SAMPLING INTERVAL: .5' VOLUME COLLECTED: 2 8 oz jars for DRC & GRO analysis
 HEADSPACE READINGS: _____

DESCRIPTION OF SOIL MATERIALS:

Peat near surface and brown, silty, gravelly soils below 3-4"

FIELD TEST KIT SCREENING TPH: X PCB: _____

SAMPLE IDS:	RESULTS:
<u>SS11-TK12</u>	<u>> 200</u>
<u>detection limits : 50, 200</u>	<u>ppm GRO</u>
<u>82, 330</u>	<u>ppm DRC</u>

DATE AND TIME OF TEST KIT SCREENING 8/13/95

COMPLETED BY:

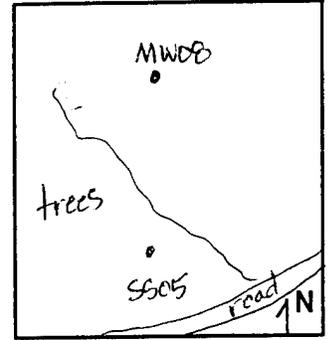
Sarah Brown Sarah Brown 8/13/95
 PRINT NAME SIGNATURE DATE

CHECKED BY:

 PRINT NAME SIGNATURE DATE

SURFACE AND SUBSURFACE SOIL SAMPLING FIELD DATA FORM

PROJECT NAME: INDIAN MOUNTAIN LRRS
 PROJECT NUMBER: 05G46200
 SITE ID: SS11 LOC ID: SS11-SS05
 SAMPLE ID: SO-SS11-SS05 LOT CONTROL NO. IN-A1025
 DATE: 8/13/95 TIME: 1645
 WEATHER: 65°F and clouds ^{SB} cloudy
 FIELD SAMPLING TEAM: S. Brown, P. Strubich



SAMPLING LOCATION:
In the wooded area on the west side of the
treeless zone. 101' SSW of SS11. MW08

COMPOSITE: YES (No) COMPOSITE DESCRIPTION: _____

DEPTH OF SAMPLING INTERVAL: .5' VOLUME COLLECTED: 2 Eco jars for
GRO and DRO analysis
 HEADSPACE READINGS: _____

DESCRIPTION OF SOIL MATERIALS:
Peat and light to medium brown, silty, gravelly
soils.

FIELD TEST KIT SCREENING TPH: X PCB: _____

SAMPLE IDS:	RESULTS:
<u>SS11 - TK11</u>	<u>> 2000</u>
<u>Detection limits: 50, 200 ppm GRO & 82, 330 ppm DRO</u>	

DATE AND TIME OF TEST KIT SCREENING 8/13/95

COMPLETED BY:
Sarah Brown Sarah Brown 8/13/95
 PRINT NAME SIGNATURE DATE

CHECKED BY:

 PRINT NAME SIGNATURE DATE

APPENDIX F
FIELD LOGS



"Rite in the Rain"
ALL-WEATHER WRITING PAPER

Name Sarah Brewer

Address _____

Phone _____

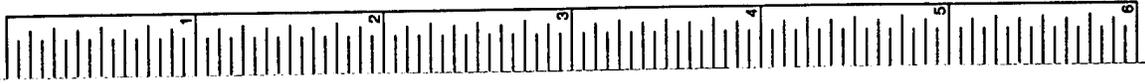
Project _____

Yellow Polyethylene Protective Slipcovers (Item #31) are available for this style of notebook. Helps protect your notebook from wear & tear. Contact your dealer or the J. L. Darling Corporation.

CONTENTS

PAGE	REFERENCE	DATE
	Indian Mountain LRRS	Aug 1995
	IRA - Diversion Ditch	
	TSR - Containment Cell	
	Additional Source Area	
	Characterization: SS02,	
	OT08, SS09, SS10, SS11	

INCHES



8/8/95

HES meeting with workers: Ben, Bill, & Kyle. Given by Bob Kennedy. Drawn to Stud to drum IDW sampling equipment

Calibrate HNU, HW-101 # 313E 10.2 eV probe using 100 ppm isobutylene lot 426492

Span 5.46 100 ppm

Background 1 ppm at 10W drum # 26 degraded fuel odor, no hit on HNU

Collected se-10W-DE26. Dark gray, silty, & moist because there was 1-2 feet of water standing in drum. Collected 2 8oz & 2 4oz

for TCLP, metals and VOC analyses. Metals & VOC results will be requested for quick-turn so that we can determine if soils/liquid should go into containment cell or into the landfill.

HNU at Drum 32 is background .5-1 ppm. Collected 2 8oz and 2 4oz jars for TCLP and

8/8/95 cont.

quick-turn metals and VOCs analysis. went up to dome and met with Joe Burch from 611/Surveyor to talk about our surveying needs.

1140 Collected SS02-SS01, a surface soil sample. Location is 4' west of SS02-BH04

1149 Collected SO-SS02-SS02. 6-7' east of SS02-BH06.

1201 Collected SO-SS02-SS03, 50' E NW of percolation test pipe

1210 Collected SO-SS02-SS04, 71' west of roadway ditch

1349 Measure water level in SS09-MW03

WL = 7.98' BTC DKJ = 0 ppm TD = 10.15' BTC

Note: 0 ppm in casing; 1-2 ppm in breathing zone. No S-Hydrox observed in bottom of well

1358 Measure water level in SS09-MW04

WL = 7.44' BTC TD = 8.00' BTC

Note: 3.5 ppm in casing; 0-1 ppm in breathing zone

1407 Measure water level in SS09-MW01

WL = 7.26' BTC TD = 10.16'

Note: 1.3 ppm in well casing; 1-2 ppm in breathing zone

8/8/95 cont.

1417 Measure water level in S309
MW02

W_h = 6.11 B7C

TD = 10.14 B7C

Note: 0 PPM in casing

1430 ▽ in water supply well 17:30'

SB

8/8/95

8/9/95

S. Brown

0700 Met with Wilkey crew to discuss plans for day.

0800 Bob Henry and I prepared a made water level measurements

in S309 wells and the water supply well.

0930 Prepared to collect OTOB test pit samples

1000 Rode up with Rick Neff - station

chief. We walked up and down

some of the surface utility lines

at OTOB. Ben Northey & Kyle arrive w/backhoe

1130 Started digging test pits at OTOB.

The goal is to define vertical and

horizontal extent of PCB contamination

using immunoassay test kits

1145 Collected 3 samples from 1994

location S305: 1 at the surface,

1 at 2.5' bgs, and a 3rd 5 ft

bgs. Groundwater started

flowing in at 2-2.5 ft bgs.

Backfilled hole

1215 Collected samples at 0-6", 2.5',

and 5' at 1994 location S301.

SB

8/9/95

8/9/95 S Brown

Backfilled SBO1. Water at 2.5' bgs.
Bob Henry, Somer Karim, Patricia
Streibich, Joe Burch (611 CES Surveyor),
and Joe's 2 helpers arrive.

Collect 3 test kit samples at 0-6",
2.5', and 5' at 1994 location SBO2.
Water/bedrock at ~~2.5'~~^{SB} bgs. Water
level was 2.5' bgs in SBO1.

Soil in SBO2 is darker than others
and smells strongly of fuel.

Backfilled SBO2 and started pit
location New1. Collected test kit
samples at 0-6", 2.5', and 5' bgs.
Water was at 5-6'. Kyle thought
that he was hitting bedrock. Soil from
3' down was fuel saturated.

Excavated test pit New2. Samples
collected at 0-6", 2.5', and 5' bgs
for PCB test kit analysis. No water
in pit although water was ponded
on the surface before excavation.
Permafrost was encountered at
5' bgs.

SB 8/9/95

S. Brown 8/9/95

pit elevations from Joe Burch
611 CES

SBO1 4001.43
SSO5 3999.97
SBO2 3998.23
new1 3795.23
new2 4001.50

approx.
scale 1" = 45'

Pit

new2

SSO5

SBO1

new1

Test Kit Results	performed 8-10 ppm	2.5' depth	5' depth
SSO5	surface	> 1, < 10 ppm	NA
SBO1	> 40 ppm	> 40	ND
SBO2	> 10, < 40	> 40	> 40
new1	> 10, < 40	SB - ND	NA
new2	ND	ND	NA

ND = not detected

NA = not analyzed

8/9/95 SB

S. Brown 8/9/95

1340 Drove up mtn. to look for locations of previous (1994) PCB hits. Samer, Patricia, and I found and sampled 2 seeps along the last switchback to analyze using PCB immunoassay test kits made by Ensys. A third location NE of TP12 (1994) on the lower bench was sampled and finally, the 1994 SWOT (SS10) location was sampled.

1400 We met up with the others and decided to return to Lower Camp, packed up, & left.

1500 Back at Lower Camp.

Analyzed PCB samples

2300 Quit for day.

~~SB 8/9/95~~

8/10/95 S. Brown

Groundwater levels

1610	WG61	9.01'
1611	∇ in River	1.65'
1616	SS09-MU02	6.16'
1620	SS09-MU01	7.31'
1624	SS09-MU03	8.1'
1629	SS09-MU04	7.51'

Other activities for today:

PCB and PCP test kit analysis, discussions about OT08 utility, clearance, and discussions about sampling approach for OT08 and PCP locations at SDO1 and SS10.

I also calibrated the HNU this morning: Span 5.40 at 100ppm 1,4-dibutylene. HNU # 3138 from Hazco w/a 10.2 eV probe.

~~SB 8/10/95~~

8/11/95 S. Brown OTOB

0945 Arrived at OTOB. Kyle Beatty and Bill Davidson from Wilder are here. Rick Neff, the Ind. Mtn station chief has just completed a final verification that lines leading underground at OTOB are not live. We are going to mark proposed test pit locations. PCB test kit and laboratory samples will be collected. The lab samples will be analyzed for ^{SB} PCBs by EPA method 8270. Kit ^{4.5-5} and ^{2.5-3} samples will be collected at .5-1.0, 2.5-3 ft. Excavate first pit. Three test kit and one lab sample were collected. ~~SB~~ Lab sample ID is 50-OTOB-SSOB, a surface soil sample. Test kit samples are 50B-01, 02, and 03. The location is approx. 50ft. ^{SB} of core marker. Subsurface material is fine-grained silty soil, dry, with gravel and angular boulders. Water slowly filled the pit after a depth of 5' was reached.

SB 8/11/95

8/11/95 S. Brown OTOB

1045 Collected samples in next pit. 50-OTOB-SB03, a lab sample from a depth of 4.5-5.0 ft. Test kit samples collected were 50B-01, 02, 03. Soil was very moist and smelled of degraded fuel. Soil is silty/clayey with gravel and boulders. Water trickled in about 1' bgs. ~~1227~~ ^{SB} R. Henry, P. Strubich, and S. Karmi arrived at OTOB. 1110 1221 Dig 3rd pit. Lab samples collected from 0.5-1.0' and 2.5-3.0'; 50-OTOB-SS10 and 50-OTOB-SB04. Test kit samples are 50B-01, 02, and 03. Permafrost and weathered bedrock were encountered at 5' bgs. No significant water seepage. Location is on the south side of OTOB. 1247 Excavate next pit near 1994 location P4. 50-OTOB-SB05. Test kit samples 50B-01, 02, and 03. Sample collected at 1250. Soil was similar to other pits and ice crystals were present in the fractured bedrock at 5' bgs. Lab sample collected from 2.5-3.0' bgs.

SB 8/11/95

S. Brown OT08 08/11/95

Soil was dry until 4.5' bgs.
Collected samples from next pit excavated on the north side of OT08.
Lab sample from 0.5-1.0' bgs - 60-OT08-SS11. Test kit samples (construction) ~~SS12-01, 02, 03~~ Debris was encountered at 2.0' bgs and hole was backfilled.

1310

1326 Collect a 0.5-1.0' lab sample from 6th pit located between 1994 locations P01 and P04; 50-OT08-SS13.
A lab sample was also collected at 2.5-3.0' bgs; 50-OT08-SB06. 1332
Soil was similar to other locations with heavy fuel odor and sheen on soil. Water was encountered at approx 4.0' bgs.

1400

After marking proposed diversion ditch location, returned to Lower Camp to analyze test kit samples.

~~SB 08/11/95~~

S. Brown 08/11/95 OT08

Test Kit Results	ND = none detected NA = not analyzed
SS08-01	ND
02	ND
03	ND
SS09-01	> 1, < 10 ppm PCB
02	ND
03	ND
SS10-01	ND
02	ND
03	ND
SS11-01	> 1, < 10 ppm PCB
02	ND
03	ND
SS12-01	ND
02	NA
03	NA
SS13-01	ND
02	ND
03	NA

Detection limit is 1 ppm PCB

not collected

SP

8/12/95 S. Brown

1310 Collected a surface water sample from what I think is the 1994 location SS10 - SW02.

1350 Collected a surface water sample at 1994 location SD01-SW09

1415 Collected a surface water sample from 1994 location SD01-SW07.

1430 P. Struebich & I returned to Lower Camp. I analyzed PCB and PCP samples.

4 samples collected from soils removed from the ditch in the 100' - 150' + PCB area, and 3 2.5-3' bgs samples from S/1145 test pits.

SB

8/12/95 S. Brown

1945 P. Struebich & I put in the permanent stakes and surveyed them

Cap #	Sample ID	Elev	XY
20	SS10	3.6	264
checkpt	CORA	.74	256.5
16	SS10	4.50	193
5	SB01	7.25	132
2	SS08	12.71	144
11	new11	12.31	93
10	SB02	9.9	87.5
4	SS09	13.9	80
12	SS05	8.5	51.5
13	SS12	7.1	28
17	SS13	2.82	352
18	newZ	6.5	7

1300 Patricia and I are at SS10 collecting PCP test kit samples

1315 Collected water at SD01-SW04 or 5
A water sample was not collected here last year bc no flow. We did collect sediment.

8/13/95 S Brown

Ran TPH test kits from the diversion ditch spoils. All samples were >200 ppm GRO & 330 ppm DRO.

1300 P. Strubich & I are going to SS11 to collect lab samples. Five will be collected for GRO & DRO analyses, 3 of these will also be analyzed for VOCs & SVOCs (SS01, SS02, SS03) SB 8/13/95

1310 Collected SO-SS11-SS01 SE of large fuel tank at ^{exprior} base of berm. 51.5' SW of SS11-BH01 and 60.5' SW of SS11-BH02.

1325 Collected SO-SS11-SS02, 29' South of SS11-BH07 and 90.5' ESE of BH15

1335 Collected SO-SS11-SS04. 59' SE of SS11-MW01, 52.5' SW of BH15. SB 8/13/95

1355 Collected SS11-SS03. 50.5' SW SB

08/13/95

S. Brown

of SS04.

1410 Collected SS05, SO-SS11-SS05 101' SW of SS11-MW08

These locations correspond to the following TPH test kit sampling locations from 8/10/95

SS01	TK02	PPM GRO
SS02	TK08	< 50, > 200 ?
SS03	TK09	< 50, > 200 ?
SS04	TK12	not detected
SS05	TK11	> 200 ppm
		> 200 PPM

1500 Assembled 1/4 thermocouple purchased for soil temperature measurements at the containment cell. An Omega

K-type probe with a digital thermometer. Stock #s TJ144-CAS-18U-12 and 450-AKT Also calibrated the Gastech CO2/O2 meter - SB #32520X - rented from

Environmental Instruments.

Labelled SS11 samples and completed COCs.

1700 Arrived at containment cell to make CO2/O2 measurement, SB

08/13/95 S. Brown

temperature measurement, and to collect composite samples for G120/D120 test kit and lab analysis and normal samples for nutrient analysis. The latter samples were collected from areas that appeared to contain fuel contamination. ^{invalid - see p. 21} SB 8/14/95
Removed cover and measured a soil temp of ~~61~~ 60 which was relatively consistent throughout pile. CO₂ concentration was 0.8%, and O₂ was 21%.
Using a stainless steel spoon and a stainless steel hand auger, soils were collected, placed in a stainless steel bowl, stirred or homogenized and used to fill jars for lab analysis, and a small amount 20g, was collected for TPH test kit analysis.
Filled jar for sample 50-cc01-6501
Filled jar for sample 50-cc01-6502

SB

19

08/13/95 S. Brown

1720 Filled jar for sample 50-cc01-6503.
1725 Using a spoon, collected soil directly from the pile for nutrient analysis.
50-cc01-6504
1727 Collected nutrient sample 50-cc01-6505.
1730 Collected nutrient sample 50-cc01-6505. Samples 6501 → 6503 will be analyzed for G120/D120. Nutrient analyses include: TN, nitro-
gen, total phosphorus, alkalinity, and total iron.
17 Henry collected PCP water samples from 3 source ^{SB} area SS10 scops and also collected geotechnical analysis soil samples from source area OTEB. He and I stayed up late to label samples, complete CCCs, and package samples

SB

0600 CE/11/95 S. Brown

Left for Top Camp to sample the prefabricated well installed in the OTEE diversion ditch. P. Strubich has come with me. P. Henry to look at the finished ditch. The weather is cold (40°), windy, and wet. Bob drives the well 6-7 times before we have collected enough water for VCC, SVOC, DRD, and GRO analyses. The sample ID is ~~WG-SS10~~ WG-SS10-WG01; sample time is 0725 (VCC), 0727 (SVOC), and 0730 (DRD/GRO).

0800 We arrive at Lower Camp. I finish prepping yesterday's samples for shipment.

1000 Warbelow's arrives - takes samples (2 coolers) and P. Strubich. Warbelow's has^{not} brought the cover material for the containment cell. Bob, me, Samer, Kyle, and Bill fill sandbags and begin packing the truck

SB

CE/11/95 S. Brown 21

and finishing backhoe tasks before the Herc comes at 3pm to take Kyle, the truck, backhoe, and ATV.

I took some final readings of the soil pile. It turns out that the thermocouple was not hooked up correctly yesterday. The temp of the soil is 57.8°F, the ambient temp is 54°F. The O₂ concentration is 21%, and CO₂ 0.7%. I packed up these instruments so Kyle could take them on the Herc.

1400 The Herc won't be coming today. We get prepared to sample the SSC9 monitoring wells and the water supply well. Decontaminated all sampling equipment and went to SSC9 with R. Henry & S. Karmi.

1520 Arrive at SSC9 - MW03. For-513 D is 7.44 ft. Begin purging, considered dry at 1553 after 15 gallons have been removed.

SB

22

S. Brown CE/14/15

- 1601 $\bar{\Delta}$ at S509-MW01 ^{6.87} ~~5.87~~ ft.
Begin purging; dry at 1634 after removing 1.5 gallons.
- 1641 Begin purging S509-MW02.
 $\bar{\Delta}$ initially 5.45 ft.
Purged dry, 6 gallons removed
- Dinner
- 1803 Begin sampling S509-MW02.
Sample WG-S509-MW02-02.
Analyses: VOC, SVOC, DRD/GRO
- 1815 Sample WG-S509-MW03-02 collected. Also for VOC, SVOC, DRD/GRO
- 1827 Collect sample WG-S509-MW04-02
Analyses: VOC, SVOC, GRO/DRD.
Dicen bailers
- 1924 Begin purging S509-MW01 Well is dry at 1942 after removing 4 gallons
- 1952 Go to water supply well (WG01)
- 1958 Collect WG-S509-WG01-02.
This well, a 2.5-3' corrugated
SFB

CE/14/15

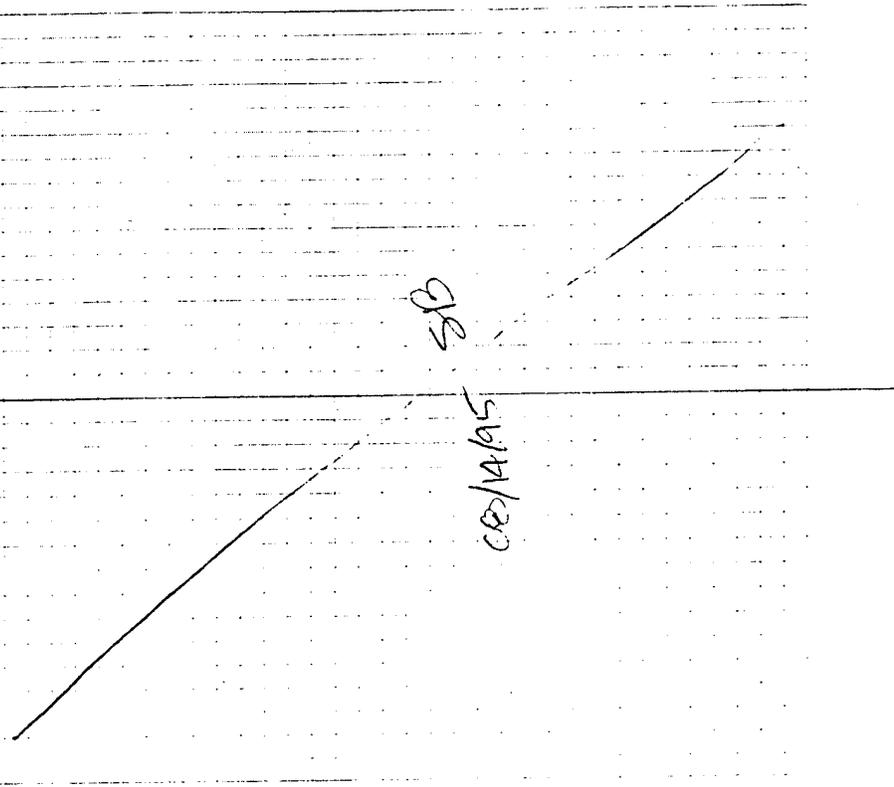
S. Brown

23

steel pipe, was not purged before sample collection. This sample will be analyzed for VOC, SVOC, DRD/GRO.

2019 Collect sample WG-S509-MW01-02.

1. Prepared the ditch samples for shipment, will finish well samples tomorrow



CE/14/15

SFB

08/15/95

Finished prepping remaining well (SSO) samples. Packaged samples and supplies for shipment. Organized project property to be left in maintenance shed.

- 1 carbon filter drum
- hexane
- methanol
- table/chair
- type II water
- water treatment unit piping

Updated paperwork.

Took off with backhoe, truck, and Bill from Wikler on the Southern Air flight.

SF

08/15/95

[Empty grid area for notes]



"Life in the Rain"[®]

ALL-WEATHER

MINING TRANSIT

Notebook No. 321

Book 1/

Indian Mountain LRS
August 1995
IRA Field Activities
R. Henry

Daily Log (Start)

15/10 Arrive at Indian Mountain
 - R. Henry, S. Brown (Sick's E. in etc. 19-20)
 - B. Harty, K. Barty, B. Davis (C. 19-20)
 meet with Rick, Stefan about
 the disas of the check in
 1600 Basin (soft) up in packing
 and equipment
 1720 Break for lunch
 1750 Engine crew does drive
 around LF hill - out spot
 camp - At upper camp to check out
 possible locations of trench
 Note that U.K. 1-7 line were
 observed in the area of the trench.
 will need to have the site from
 previous check Charles & F-15
 - Release September 15
 from pit for 19-20

6

8/8/85
0700 Problem H. 144 & S. 4
beginning
0750 H. 145 briefing complete

- Dip out for drum storage area
0800 Direct Wilder to move
clean drums to landfill Alote
that S. Brown & R. Henry
marked all clean drums with
pink spray paint on 8/7/85.
0822 Prepare to sample FAW drums
- Alote on sampling will be
kept in log book maintained
by S. Brown.

1420 Wilder has finished
moving clean soil drums to landfill
- Prepare to construct soil containment
cell
Alote: Spike with George
(Fm station person) regarding
location. He said that we
will have to move location from
proposed area, approximately 75'
to the west.

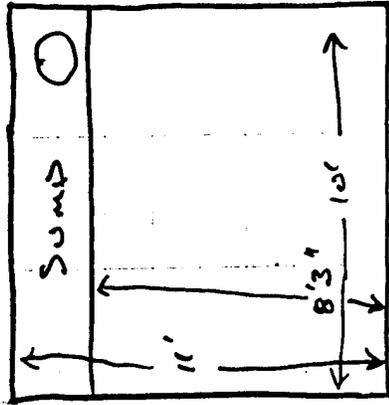
1600 Area has been banded to join
Pacing liner material. Material
is XR-5 as specified. In
review of drums, some of the
contaminated drums are not full.
Therefore, we may need to
reduce the size of the
cell.

1700 Drink F. - Blair.
1800 ~~Drum~~ Pacing Joints into
1801 - Dump Drum # 25 HAU = 150 ppm
- 1 ppm in Drinking Base
1811 - Dump Drum # 17
1814 - Dump Drum # 11 - 5 ppm in drum; 0 ppm
1818 Dump Drum # - 80 ppm in drum; 3-4 in BZ
1832 - Review size of piping
structure due to estimate of
soil amount; size for 7'0"
by 4'3"

20.4 @ 3" - 11'
10'

1906 Dump drum # 24
- 7 ppm a drum 0.1 in BZ

↑
↓
N

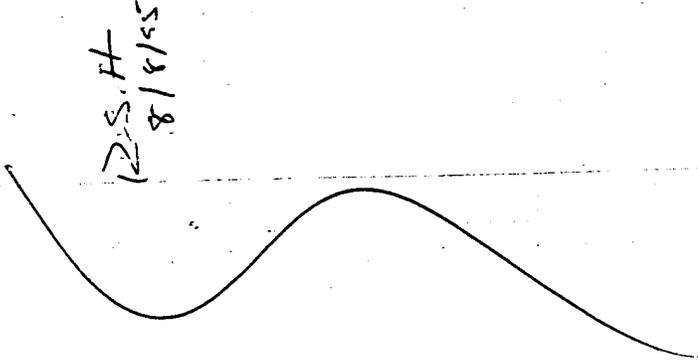


- 1912 Dump Drum #4
12 ppm in drum; 12A
0.1 in BZ
- 1919 Dump Drum #25
20 ppm in drum; 3.4 in BZ
- 1925 Dump Drum #13
1.2 ppm in drum
- 1928 Dump Drum #3
1.2 ppm
- 1931 Dump Drum #15

1940 - All contaminated soil has
been placed in unit - Total
Volume = 2 Yds³.
- Need to readjust size of
unit to accommodate soil in
unit

- Note: Due to Burch will survey
the final locations; also final
dimensions will be measured

2017 - Cleanup had to Done
2215 Disuse activity for
removal of Wilder



8/4/45

0715 meet w/ crew to confirm quantities

0750 Prepare samples (SS02, IS01) for shipment

0832 Prepare to measure water levels at SS03

0914 Water levels complete. Found no leadfil to check on progress of Wilder who is emptying and decaying old drums

0929 Check on progress Fowler, there are some empty drums

1000 Wilder personnel Murphy & Beety take backhoe to upper camp. to dig test pits. S. Brown travel to upper camp with Rick

Moff to do utility tests. Wilder employee Davidson continues decontaminating suit drums at the landfill.

S. Kemi & P. Striebsch to arrive at approx. 1015.

1015 Sam Kemi & Patricia Striebsch

1235.

Arrival at Top Camp with Sam, Patricia, Steve & his crew. Meet w/ Rick

1320 Collect samples from test pit No. 2. Three samples collected.

Core @ 0.6 to 1 ft bys
Core @ 2.5-3 ft bys
Core @ 5 ft bys
For test pit analysis

Permafrost detected @ \approx 6 ft bys

- Crew starting to determine where underground lines are located.
- unable to determine electrical line distribution - separate upper camp fire house camp.

1520 Arrive at lower camp
- direct willie to perform cleaning drums at landfill

- Riley gives S. Kemi & P. Striebsch tour of lower camp.

ms. Brown sent up to "New test kits"

1700 Break for dinner
Analysis on study sheet provided

by Joe Borch; see Appendix

8/19/95

Survey Data 0708

RCA #4

10 = Sew corner dike pond

10, 11, 12, 14 corner of pond

14 = 7 ft angle iron post ground

S B01	4001.43	} From Birch Seize Gillies
S B05	3999.97	
S B02	3998.23	
New 1	3795.23	
New 2	4001.56	

8/10/95

Even Morning Meeting: discuss today

activities including

- Decom of dirty suits down - they will be decom at the ditch dump at the old dump pits - note from the decom process will be passed thru the camp treatment unit
- Test pits at upper camp
- Sample from digress results of 9 test pits samples we will find locate additional samples to be collected based on field observations of water flow and previous sample logs & data.
- Track on site estimated with certainty is correct.

1030 Ben Newberry (wilden) artifacts.

- Sarah has finished running PCB test kits - prep to move to top camp to collect PCBs and TBT

K + PCB samples. Rick Newberry at Topcamp to do utility work

1411 at SS11 w/ Sam Koini to

collect test kit samples

will collect 8 samples, analyse them and then collect 4 more.

These data will direct the

placement of lab samples.

1415 collect Test kit sample SS4 TK01 collect) as on map in work plan

- Sam Koini collects sample

1424 collect sample SS4 TK02

- Sam Koini collects location

on work plan map

1443 collect TK03

1458 Set up Test kit samples 6-8

at location down-joint of sediment sample which kit was inserted in 94.

1516 Draft SS11 - 8 samples collected.

- will analyse using test kits

1530 Begin analysis of Test kit samples from SS11. Will take by-pass setting up the down pad extract treatment unit.

1705 Finish First for Samples

- S. Brunck S. Koini take work-
books at SS09 hours as
follows:

Wednesday - 12/15/05

1610 Wagon 7:00

1611 Run 1:05

1616 Run 6:30

1624 Run 8:10

1629 Run 7:50

1715 Break in - dinner

1805 Return to base to finish

test kits

4:30 Results complete

- Activities for tomorrow:

1) collect more test kit SS11 test kit locations
2) collect SS11 test samples

3) collect all final SS10 PPP test kit samples

4) Do test pits at 0700

- collect sediment samples; collect lab samples

5) Collect Section samples at 0700

Open Pit & Build Kit dipnet for - open

Camp to first pour line.

0837 Return to S. Koini report to SS11

& collect a lab final Test kit

will collect near TK03 white filter

will be stored

1024 Test kit analysis complete on

Samples # SS11-TK09 → 12

- Try to find to App. Camp

1025 Calibrant HANU# 1307: 10.2EV
 probe using H200 brand Fluorobutylene
 100ppm span sea: 2.0 @ SPIN 980
 100ppm @ 2.59 SPIN. Background at
 0.1 ppm

1151 AT APP - CAMP

- W. Y. J. is doing test pits
- The electrical line that was presumed to be live has been verified as dead.
- Rick Neff performed test to determine the safety we dead. LSS is red at standard will be FAXING the sig permit to the station.
- Milk Test kits complete: Such brown upstarts to lower camp
- Trench line has been established.
- 1458 Short Digging trench - Trench line estimated at 221 ft in length

1049 The linear magnetron has been laid out and only 100 ft was measured. It has called wilder and polar supply to determine the whereabouts of the other linear piece. Polar Supply will reimburse.

1649 cont.	At this time we have
1817	Established 4 pieces of line - material
20', 15', 15', 20'	
1821	Digging for line - 7hc
	whirlpools at 1hc
	unbroken
1948	Start down C-15 / trenching
	Camp R C-15 / trenching
2017	AT APP - CAMP
	lines, water / sections of
	20', 15', 15', 20', 15', 20', 20', 22.5
	Survey Ditch
	Brick Mark down CCR 4th = 0.82
	Brick Mark down CCR 1 = 10.24
	Distort
	Ground
26'	3.28
	3.94
34'	4.50
46'	4.16
71'	6.40
83'	5.82
95'	4.52
105'	4.57
117'	5.74
2130	117' of ditch as seen
	lined and backfilled Ret-
	to 1351 from camp
	AVE = 4.55
	Bottom Ditch
	7.94
	8.86
	9.00
	8.84
	9.76
	9.52
	9.68
	5.16
	5.91
	10.27
	11.33



8/12/55

1000 Repair to sp to the end
 1000 Repair to top cap of pipe
 electric site using a pump to
 displace the water in the
 ditch to the south
 - South Basin of Pacific Str. 1000 ft
 work on Saturday 8/12/55
 1538 Excavation has proceeded 22.5
 ft beyond the 117 pit in yesterday
 Soil contamination observed until
 last 28 ft of trench at this
 point we encountered buried bricks
 debris
 1558 Pipe sump: installed 5 pipes
 as follows: Johnson Wheelbarrow
 V-pick screen section of 2" screen
 Sump
 Sump dug in trench at 131' from
 end of trench. Bottom Sump
 placed on well. 1 ft in depth
 V-pick screen + 5" in 1000 ft section
 of 3/4" VOPUL attached. well
 cut to top of section is 2 ft
 ditch is backshod.

Survey from 117' to end of Ditch
 Distance
 COR #41 186.5' G. Elev. Bott. Elev.
 COR #4 288' 11.05
 117' 270' 1.16
 Well 131' 420' 6.40 10.82
~~117' 520' 7.96~~

Need to tie these two points
 117' & 131' to above benchmarks

COR #4 Cannot read.

COR #1	313'	1.16	8.90	5.42
146'	145.5'	3.48	9.64	4.84
161'	153.5'	4.80	9.92	5.06
175'	162'	4.46	10.06	5.14
188'	169'	4.12		

199 - End of Ditch

Ave d.t. & ditch = 4.75 ft

8/13/95

0911 At top camp can find bookfills
 ditch. Prepare sample bottles.

Sample to collect today include

OT08 - geotech samples - Need 3

SS10 - PCP from scoops - need 3

RHx - Ditch sample

Need boiler, bailer line

1229 Collect Geotech Sample 50'

South (toward Alaska) cut

SB01 sample location collected
 at 6" bgs.

1321 Prepare to collect PCP

Sample # SS10-SW10 from seep basin

on north side of top camp. North of

old tank area. MSD3 sample collected

at this location. Previous 1994 location

was SW-04

1329 Sample SW-10 + MSMSD collected.

1344 Collect SW-11 at Northwest

side of top camp.

1400 collect sample SW-12 near road

on south side of mountain

1501 cut of 7.78 ft from PML

struck - PMSW-11 try

5-48 Depot - App Comp

