

APPENDIX B

B-1 RESULTS OF SOIL VAPOR ANALYSES

B-2 CHAIN-OF-CUSTODY FORMS

**B-3 DAILY OPENING, CLOSING, AND CONTINUING
CALIBRATION VERIFICATION REPORTS**

APPENDIX B-1

RESULTS OF SOIL VAPOR ANALYSES



GEOFON PROJECT # 04-4428.10 JPL#2
 JET PROPULSION LABORATORY
 4800 OAK GROVE DRIVE
 PASADENA, CA

HP Labs Project #GF090302T2
 GC SHIMADZU 14A

VOLATILE HALOGENATED AND AROMATIC HYDROCARBONS (EPA Method 8021) ANALYSES OF SOIL VAPOR
 SOIL VAPOR DATA IN UG/L-VAPOR

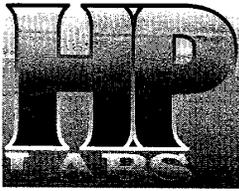
	AMBIENT BLANK	SVW30- VPA-01	SVW30- VPB-02	SVW30- VPC-03	SVW30- VPD-04	SVW30- VPE-05	SVW30-VPE- 06 DUP	SVW31- VPA-07	SVW31- VPB-08	SVW31- VPD-09	SVW31- VPE-10	SVW12- VPC-11	SVW12-VPC- 12 DUP	SVW12- VPD-13
DATE	09/04/02	09/04/02	09/04/02	09/04/02	09/04/02	09/04/02	09/04/02	09/04/02	09/04/02	09/04/02	09/04/02	09/04/02	09/04/02	09/04/02
SAMPLING DEPTH (feet)	--	17	30	40	50	65	65	20	35	55	65	60	60	76
VOLUME WITHDRAWN (cc)	--	128	180	220	260	320	440	140	200	280	320	300	420	364
VOLUME INJECTED	1	1	1	1	1	1	1	1	1	1	1	1	1	1
DILUTION FACTOR	1	1	1	1	1	1	1	1	1	1	1	1	1	1
CARBON TETRACHLORIDE	nd	nd	nd	nd	nd	nd	nd	nd						
CHLOROETHANE	nd	nd	nd	nd	nd	nd	nd	nd						
CHLOROFORM	nd	nd	nd	nd	nd	nd	nd	nd						
1,1-DICHLORO ETHANE	nd	nd	nd	nd	nd	nd	nd	nd						
1,2-DICHLORO ETHANE	nd	nd	nd	nd	nd	nd	nd	nd						
1,1-DICHLORO ETHENE	nd	nd	nd	nd	nd	nd	nd	nd						
CIS-1,2-DICHLORO ETHENE	nd	nd	nd	nd	nd	nd	nd	nd						
TRANS-1,2-DICHLORO ETHENE	nd	nd	nd	nd	nd	nd	nd	nd						
DICHLOROMETHANE	nd	nd	nd	nd	nd	nd	nd	nd						
TETRACHLORO ETHENE	nd	nd	nd	nd	nd	nd	nd	nd						
1,1,1,2-TETRACHLORO ETHANE	nd	nd	nd	nd	nd	nd	nd	nd						
1,1,2,2-TETRACHLORO ETHANE	nd	nd	nd	nd	nd	nd	nd	nd						
1,1,1-TRICHLORO ETHANE	nd	nd	nd	nd	nd	nd	nd	nd						
1,1,2-TRICHLORO ETHANE	nd	nd	nd	nd	nd	nd	nd	nd						
TRICHLORO ETHENE	nd	nd	nd	nd	nd	nd	nd	nd						
VINYL CHLORIDE	nd	nd	nd	nd	nd	nd	nd	nd						
TRICHLOROFUOROMETHANE (FR11)	nd	nd	nd	nd	nd	nd	nd	nd						
DICHLORODIFLUOROMETHANE (FR12)	nd	nd	nd	nd	nd	nd	nd	nd						
1,1,2-TRICHLOROTRIFLUOROETHANE (FR113)	nd	nd	nd	nd	nd	nd	nd	nd						
BENZENE	nd	nd	nd	nd	nd	nd	nd	nd						
CHLOROBENZENE	nd	nd	nd	nd	nd	nd	nd	nd						
ETHYLBENZENE	nd	nd	nd	nd	nd	nd	nd	nd						
TOLUENE	nd	nd	nd	nd	nd	nd	nd	nd						
m&p-XYLENES	nd	nd	nd	nd	nd	nd	nd	nd						
o-XYLENE	nd	nd	nd	nd	nd	nd	nd	nd						
SURROGATES														
1,4 DIFLUORO BENZENE	33%	98%	97%	97%	97%	98%	100%	99%	96%	91%	94%	90%	96%	97%
4 BROMOFLURO BENZENE	94%	99%	99%	98%	101%	100%	102%	99%	98%	94%	97%	93%	99%	98%

ND INDICATES NOT DETECTED AT A DETECTION LIMIT OF 1.0 UG/L-VAPOR FOR EACH COMPOUND

ANALYSES PERFORMED ON-SITE IN CA DOHS MOBILE LABORATORY (CERT #1667)

ANALYSES PERFORMED BY: MARK BURKE

DATA REVIEWED BY: MS. TAMARA DAVIS



GEOFON PROJECT #04-4428.10 JPL#2
 JET PROPULSION LABORATORY
 4800 OAK GROVE DRIVE
 PASADENA, CA

HP Labs Project #GF090302T2
 GC SHIMADZU 14A

VOLATILE HALOGENATED AND AROMATIC HYDROCARBONS (EPA Method 8021) ANALYSES OF SOIL VAPOR

AREA COUNTS

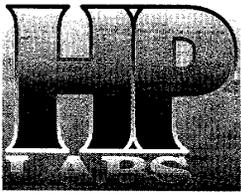
SAMPLE NAME	AMBIENT	AMBIENT	SVW30-VPA-	SVW30-VPA-	SVW30-VPB-	SVW30-VPB-	SVW30-VPC-	SVW30-VPC-	SVW30-VPD-	SVW30-VPD-
	BLANK	BLANK	01	01	02	02	03	03	04	04
DATE	09/04/02	09/04/02	09/04/02	09/04/02	09/04/02	09/04/02	09/04/02	09/04/02	09/04/02	09/04/02
SAMPLING DEPTH (feet)	--	--	17	17	30	30	40	40	50	50
VOLUME WITHDRAWN (cc)	--	--	128	128	180	180	220	220	260	260
VOLUME INJECTED	1	1	1	1	1	1	1	1	1	1
DILUTION FACTOR	1	1	1	1	1	1	1	1	1	1
	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA
CARBON TETRACHLORIDE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
CHLOROETHANE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
CHLOROFORM	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
1,1-DICHLORO ETHANE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
1,2-DICHLORO ETHANE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
1,1-DICHLORO ETHENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
CIS-1,2-DICHLORO ETHENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
TRANS-1,2-DICHLORO ETHENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
DICHLOROMETHANE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
TETRACHLORO ETHENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
1,1,1,2-TETRACHLORO ETHANE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
1,1,2,2-TETRACHLORO ETHANE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
1,1,1-TRICHLORO ETHANE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
1,1,2-TRICHLORO ETHANE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
TRICHLORO ETHENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
VINYL CHLORIDE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
TRICHLOROFLUOROMETHANE (FR11)	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
DICHLORODIFLUOROMETHANE (FR12)	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
1,1,2-TRICHLOROTRIFLUOROETHANE (FR113)	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
BENZENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
CHLOROBENZENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
ETHYLBENZENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
TOLUENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
m&p-XYLENES	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
o-XYLENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
SURROGATES										
1,4 DIFLUORO BENZENE	8.6	14.5	8.6	15.3	8.6	15.2	8.6	15.1	8.6	15.2
4 BROMOFLUORO BENZENE	17.8	31.5	17.8	32.9	17.8	32.9	17.8	32.7	17.8	33.6

ND INDICATES NOT DETECTED AT A DETECTION LIMIT OF 1.0 UG/L-VAPOR FOR EACH COMPOUND

ANALYSES PERFORMED ON-SITE IN CA DOHS MOBILE LABORATORY (CERT #1667)

ANALYSES PERFORMED BY: MARK BURKE

DATA REVIEWED BY: MS. TAMARA DAVIS



GEOFON PROJECT #04-4428.10 JPL#2
 JET PROPULSION LABORATORY
 4800 OAK GROVE DRIVE
 PASADENA, CA

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 GC SHIMADZU 14A

VOLATILE HALOGENATED AND AROMATIC HYDROCARBONS (EPA Method 8021) ANALYSES OF SOIL VAPOR
 AREA COUNTS

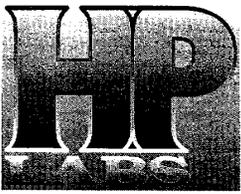
SAMPLE NAME	SVW30-VPE-	SVW30-VPE-	SVW30-VPE-	SVW30-VPE-	SVW31-VPA-	SVW31-VPA-	SVW31-VPB-	SVW31-VPB-	SVW31-VPD-	SVW31-VPD-
	05	05	06 DUP	06 DUP	07	07	08	08	09	09
DATE	09/04/02	09/04/02	09/04/02	09/04/02	09/04/02	09/04/02	09/04/02	09/04/02	09/04/02	09/04/02
SAMPLING DEPTH (feet)	65	65	65	65	20	20	35	35	55	55
VOLUME WITHDRAWN (cc)	320	320	440	440	140	140	200	200	280	280
VOLUME INJECTED	1	1	1	1	1	1	1	1	1	1
DILUTION FACTOR	1	1	1	1	1	1	1	1	1	1
	RT	AREA								
CARBON TETRACHLORIDE	nd									
CHLOROETHANE	nd									
CHLOROFORM	nd									
1,1-DICHLORO ETHANE	nd									
1,2-DICHLORO ETHANE	nd									
1,1-DICHLORO ETHENE	nd									
CIS-1,2-DICHLORO ETHENE	nd									
TRANS-1,2-DICHLORO ETHENE	nd									
DICHLOROMETHANE	nd									
TETRACHLORO ETHENE	nd									
1,1,1,2-TETRACHLORO ETHANE	nd									
1,1,2,2-TETRACHLORO ETHANE	nd									
1,1,1-TRICHLORO ETHANE	nd									
1,1,2-TRICHLORO ETHANE	nd									
TRICHLORO ETHENE	nd									
VINYL CHLORIDE	nd									
TRICHLOROFLUOROMETHANE (FR11)	nd									
DICHLORODIFLUOROMETHANE (FR12)	nd									
1,1,2-TRICHLOROTRIFLUOROETHANE (FR113)	nd									
BENZENE	nd									
CHLOROBENZENE	nd									
ETHYLBENZENE	nd									
TOLUENE	nd									
m&p-XYLENES	nd									
o-XYLENE	nd									
SURROGATES										
1,4 DIFLUORO BENZENE	8.6	15.3	8.6	15.6	8.6	15.5	8.6	15.0	8.6	14.2
4 BROMOFLUORO BENZENE	17.8	33.3	17.8	34.2	17.8	33.2	17.8	32.7	17.8	31.3

ND INDICATES NOT DETECTED AT A DETECTION LIMIT OF 1.0 UG/L-VAPOR FOR EACH COMPOUND

ANALYSES PERFORMED ON-SITE IN CA DOHS MOBILE LABORATORY (CERT #1667)

ANALYSES PERFORMED BY: MARK BURKE

DATA REVIEWED BY: MS. TAMARA DAVIS



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 AREA COUNTS

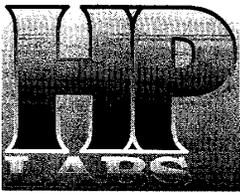
SAMPLE NAME	SVW31-VPE-10	SVW31-VPE-10	SVW12-VPC-11	SVW12-VPC-11	SVW12-VPC-12	SVW12-VPC-12	SVW12-VPD-13	SVW12-VPD-13
					DUP	DUP		
DATE	09/04/02	09/04/02	09/04/02	09/04/02	09/04/02	09/04/02	09/04/02	09/04/02
SAMPLING DEPTH (feet)	65	65	60	60	60	60	76	76
VOLUME WITHDRAWN (cc)	320	320	300	300	420	420	364	364
VOLUME INJECTED	1	1	1	1	1	1	1	1
DILUTION FACTOR	1	1	1	1	1	1	1	1
	RT	AREA	RT	AREA	RT	AREA	RT	AREA
CARBON TETRACHLORIDE	nd							
CHLOROETHANE	nd							
CHLOROFORM	nd							
1,1-DICHLORO ETHANE	nd							
1,2-DICHLORO ETHANE	nd							
1,1-DICHLORO ETHENE	nd							
CIS-1,2-DICHLORO ETHENE	nd							
TRANS-1,2-DICHLORO ETHENE	nd							
DICHLOROMETHANE	nd							
TETRACHLORO ETHENE	nd							
1,1,1,2-TETRACHLORO ETHANE	nd							
1,1,2,2-TETRACHLORO ETHANE	nd							
1,1,1-TRICHLORO ETHANE	nd							
1,1,2-TRICHLORO ETHANE	nd							
TRICHLORO ETHENE	nd							
VINYL CHLORIDE	nd							
TRICHLOROFLUOROMETHANE (FR11)	nd							
DICHLORODIFLUOROMETHANE (FR12)	nd							
1,1,2-TRICHLOROTRIFLUOROETHANE (FR113)	nd							
BENZENE	nd							
CHLOROBENZENE	nd							
ETHYLBENZENE	nd							
TOLUENE	nd							
m&p-XYLENES	nd							
o-XYLENE	nd							
SURROGATES								
1,4 DIFLUORO BENZENE	8.6	14.7	8.6	14.0	8.6	15.0	8.6	15.2
4 BROMOFLUORO BENZENE	17.8	32.3	17.8	31.0	17.8	32.9	17.8	32.8

ND INDICATES NOT DETECTED AT A DETECTION LIMIT OF 1.0 UG/L-VAPOR FOR EACH COMPOUND

ANALYSES PERFORMED ON-SITE IN CA DOHS MOBILE LABORATORY (CERT #1667)

ANALYSES PERFORMED BY: MARK BURKE

DATA REVIEWED BY: MS. TAMARA DAVIS



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 JET PROPULSION LABORATORY
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 SOIL VAPOR DATA IN UG/L-VAPOR

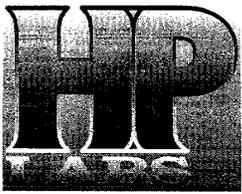
	AMBIENT BLANK	SVW5- VPB-14	SVW7- VPA-15	SVW7- VPB-16	SVW1- VPB-17	SVW1-VPB- 18 DUP	SVW1- VPC-19	SVW2- VPA-20	SVW3- VPC-21	SVW3- VPD-22	SVW4- VPB-23	SVW4-VOB- 24 DUP	SVW4- VPD-25
DATE	09/06/02	09/06/02	09/06/02	09/06/02	09/06/02	09/06/02	09/06/02	09/06/02	09/06/02	09/06/02	09/06/02	09/06/02	09/06/02
ANALYSIS TIME	07:34	07:56	08:19	08:42	09:04	09:26	09:49	10:11	10:33	10:56	12:19	12:43	13:06
SAMPLING DEPTH (feet)	--	9	20	35	21	21	33	10	40	47	20	20	56
VOLUME WITHDRAWN (cc)	--	96	140	200	144	264	192	100	220	248	140	260	284
VOLUME INJECTED	1	1	1	1	1	1	1	1	1	1	1	1	1
DILUTION FACTOR	1	1	1	1	1	1	1	1	1	1	1	1	1
CARBON TETRACHLORIDE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
CHLOROETHANE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
CHLOROFORM	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
1,1-DICHLORO ETHANE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
1,2-DICHLORO ETHANE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
1,1-DICHLORO ETHENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
CIS-1,2-DICHLORO ETHENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
TRANS-1,2-DICHLORO ETHENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
DICHLOROMETHANE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
TETRACHLORO ETHENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
1,1,1,2-TETRACHLORO ETHANE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
1,1,2,2-TETRACHLORO ETHANE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
1,1,1-TRICHLORO ETHANE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
1,1,2-TRICHLORO ETHANE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
TRICHLORO ETHENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	24	14	2.3
VINYL CHLORIDE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
TRICHLOROFLUOROMETHANE (FR11)	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
DICHLORODIFLUOROMETHANE (FR12)	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
1,1,2-TRICHLOROTRIFLUOROETHANE (FR113)	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
BENZENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
CHLOROBENZENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
ETHYLBENZENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
TOLUENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
m&p-XYLENES	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
o-XYLENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
SURROGATES													
1,4 DIFLUORO BENZENE	93%	94%	95%	97%	95%	97%	94%	96%	97%	96%	96%	95%	96%
4 BROMOFLUORO BENZENE	96%	96%	99%	100%	97%	100%	99%	99%	101%	99%	101%	100%	101%

ND INDICATES NOT DETECTED AT A DETECTION LIMIT OF 1.0 UG/L-VAPOR FOR EACH COMPOUND

ANALYSES PERFORMED ON-SITE IN CA DOHS MOBILE LABORATORY (CERT #1667)

ANALYSES PERFORMED BY: MARK BURKE

DATA REVIEWED BY: MS. TAMARA DAVIS



GEOFON PROJECT #04-4428.10 JPL#2
 JET PROPULSION LABORATORY
 4800 OAK GROVE DRIVE
 PASADENA, CA

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 GC SHIMADZU 14A
 VOLATILE HALOGENATED AND AROMATIC HYDROCARBONS (EPA Method 8021) ANALYSES OF SOIL VAPOR
 AREA COUNTS

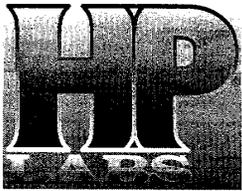
SAMPLE NAME	AMBIENT BLANK	AMBIENT BLANK	SVW5-VPB-14	SVW5-VPB-14	SVW7-VPA-15	SVW7-VPA-15	SVW7-VPB-16	SVW7-VPB-16	SVW1-VPB-17	SVW1-VPB-17
DATE	09/06/02	09/06/02	09/06/02	09/06/02	09/06/02	09/06/02	09/06/02	09/06/02	09/06/02	09/06/02
ANALYSIS TIME	7:34	7:34	7:56	7:56	8:19	8:19	8:42	8:42	9:04	9:04
SAMPLING DEPTH (feet)	--	--	9	9	20	20	35	35	21	21
VOLUME WITHDRAWN (cc)	--	--	96	96	140	140	200	200	144	144
VOLUME INJECTED	1	1	1	1	1	1	1	1	1	1
DILUTION FACTOR	1	1	1	1	1	1	1	1	1	1
	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA
CARBON TETRACHLORIDE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
CHLOROETHANE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
CHLOROFORM	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
1,1-DICHLORO ETHANE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
1,2-DICHLORO ETHANE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
1,1-DICHLORO ETHENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
CIS-1,2-DICHLORO ETHENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
TRANS-1,2-DICHLORO ETHENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
DICHLOROMETHANE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
TETRACHLORO ETHENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
1,1,1,2-TETRACHLORO ETHANE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
1,1,2,2-TETRACHLORO ETHANE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
1,1,1-TRICHLORO ETHANE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
1,1,2-TRICHLORO ETHANE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
TRICHLORO ETHENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
VINYL CHLORIDE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
TRICHLOROFLUOROMETHANE (FR11)	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
DICHLORODIFLUOROMETHANE (FR12)	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
1,1,2-TRICHLOROTRIFLUOROETHANE (FR113)	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
BENZENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
CHLOROBENZENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
ETHYLBENZENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
TOLUENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
m&p-XYLENES	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
o-XYLENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
SURROGATES										
1,4 DIFLUORO BENZENE	8.6	14.5	8.6	14.6	8.6	14.8	8.6	15.1	8.6	14.8
4 BROMOFLUORO BENZENE	17.8	31.9	17.8	31.9	17.8	33.1	17.8	33.5	17.8	32.4

ND INDICATES NOT DETECTED AT A DETECTION LIMIT OF 1.0 UG/L-VAPOR FOR EACH COMPOUND

ANALYSES PERFORMED ON-SITE IN CA DOHS MOBILE LABORATORY (CERT #1667)

ANALYSES PERFORMED BY: MARK BURKE

DATA REVIEWED BY: MS. TAMARA DAVIS



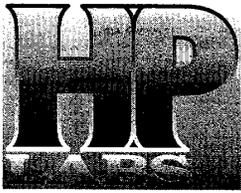
GEOFON PROJECT #04-4428.10 JPL#2
 JET PROPULSION LABORATORY
 4800 OAK GROVE DRIVE
 PASADENA, CA

HP Labs Project #GF090302T2
 GC SHIMADZU 14A
 VOLATILE HALOGENATED AND AROMATIC HYDROCARBONS (EPA Method 8021) ANALYSES OF SOIL VAPOR
 AREA COUNTS

SAMPLE NAME	SVW1-VPB-18 DUP	SVW1-VPB-18 DUP	SVW1-VPC-19	SVW1-VPC-19	SVW2-VPA-20	SVW2-VPA-20	SVW3-VPC-21	SVW3-VPC-21
DATE	09/06/02	09/06/02	09/06/02	09/06/02	09/06/02	09/06/02	09/06/02	09/06/02
ANALYSIS TIME	9:26	9:26	9:49	9:49	10:11	10:11	10:33	10:33
SAMPLING DEPTH (feet)	21	21	33	33	10	10	40	40
VOLUME WITHDRAWN (cc)	264	264	192	192	100	100	220	220
VOLUME INJECTED	1	1	1	1	1	1	1	1
DILUTION FACTOR	1	1	1	1	1	1	1	1
	RT	AREA	RT	AREA	RT	AREA	RT	AREA
CARBON TETRACHLORIDE	nd	nd	nd	nd	nd	nd	nd	nd
CHLOROETHANE	nd	nd	nd	nd	nd	nd	nd	nd
CHLOROFORM	nd	nd	nd	nd	nd	nd	nd	nd
1,1-DICHLORO ETHANE	nd	nd	nd	nd	nd	nd	nd	nd
1,2-DICHLORO ETHANE	nd	nd	nd	nd	nd	nd	nd	nd
1,1-DICHLORO ETHENE	nd	nd	nd	nd	nd	nd	nd	nd
CIS-1,2-DICHLORO ETHENE	nd	nd	nd	nd	nd	nd	nd	nd
TRANS-1,2-DICHLORO ETHENE	nd	nd	nd	nd	nd	nd	nd	nd
DICHLOROMETHANE	nd	nd	nd	nd	nd	nd	nd	nd
TETRACHLORO ETHENE	nd	nd	nd	nd	nd	nd	nd	nd
1,1,1,2-TETRACHLORO ETHANE	nd	nd	nd	nd	nd	nd	nd	nd
1,1,2,2-TETRACHLORO ETHANE	nd	nd	nd	nd	nd	nd	nd	nd
1,1,1-TRICHLORO ETHANE	nd	nd	nd	nd	nd	nd	nd	nd
1,1,2-TRICHLORO ETHANE	nd	nd	nd	nd	nd	nd	nd	nd
TRICHLORO ETHENE	nd	nd	nd	nd	nd	nd	nd	nd
VINYL CHLORIDE	nd	nd	nd	nd	nd	nd	nd	nd
TRICHLOROFLUOROMETHANE (FR11)	nd	nd	nd	nd	nd	nd	nd	nd
DICHLORODIFLUOROMETHANE (FR12)	nd	nd	nd	nd	nd	nd	nd	nd
1,1,2-TRICHLOROTRIFLUOROETHANE (FR113)	nd	nd	nd	nd	nd	nd	nd	nd
BENZENE	nd	nd	nd	nd	nd	nd	nd	nd
CHLOROBENZENE	nd	nd	nd	nd	nd	nd	nd	nd
ETHYLBENZENE	nd	nd	nd	nd	nd	nd	nd	nd
TOLUENE	nd	nd	nd	nd	nd	nd	nd	nd
m&p-XYLENES	nd	nd	nd	nd	nd	nd	nd	nd
o-XYLENE	nd	nd	nd	nd	nd	nd	nd	nd
SURROGATES								
1,4 DIFLUORO BENZENE	8.6	15.1	8.6	14.7	8.6	15.0	8.6	15.1
4 BROMOFLUORO BENZENE	17.8	33.3	17.8	32.9	17.8	33.0	17.8	33.6

ND INDICATES NOT DETECTED AT A DETECTION LIMIT OF 1.0 UG/L-VAPOR FOR EACH COMPOUND

ANALYSES PERFORMED ON-SITE IN CA DOHS MOBILE LABORATORY (CERT #1667)
 ANALYSES PERFORMED BY: MARK BURKE
 DATA REVIEWED BY: MS. TAMARA DAVIS



GEOFON PROJECT #04-4428.10 JPL#2
 JET PROPULSION LABORATORY
 4800 OAK GROVE DRIVE
 PASADENA, CA

HP Labs Project #GF090302T2
 GC SHIMADZU 14A
 VOLATILE HALOGENATED AND AROMATIC HYDROCARBONS (EPA Method 8021) ANALYSES OF SOIL VAPOR
 AREA COUNTS

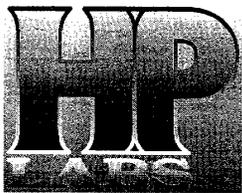
SAMPLE NAME	SVW3-VPD-22	SVW3-VPD-22	SVW4-VPB-23	SVW4-VPB-23	SVW4-VOB-24	SVW4-VOB-24	SVW4-VPD-25	SVW4-VPD-25
					DUP	DUP		
DATE	09/06/02	09/06/02	09/06/02	09/06/02	09/06/02	09/06/02	09/06/02	09/06/02
ANALYSIS TIME	10:56	10:56	12:19	12:19	12:43	12:43	13:06	13:06
SAMPLING DEPTH (feet)	47	47	20	20	20	20	56	56
VOLUME WITHDRAWN (cc)	248	248	140	140	260	260	284	284
VOLUME INJECTED	1	1	1	1	1	1	1	1
DILUTION FACTOR	1	1	1	1	1	1	1	1
	RT	AREA	RT	AREA	RT	AREA	RT	AREA
CARBON TETRACHLORIDE	nd							
CHLOROETHANE	nd							
CHLOROFORM	nd							
1,1-DICHLORO ETHANE	nd							
1,2-DICHLORO ETHANE	nd							
1,1-DICHLORO ETHENE	nd							
CIS-1,2-DICHLORO ETHENE	nd							
TRANS-1,2-DICHLORO ETHENE	nd							
DICHLOROMETHANE	nd							
TETRACHLORO ETHENE	nd							
1,1,1,2-TETRACHLORO ETHANE	nd							
1,1,2,2-TETRACHLORO ETHANE	nd							
1,1,1-TRICHLORO ETHANE	nd							
1,1,2-TRICHLORO ETHANE	nd							
TRICHLORO ETHENE	nd	nd	9.1	28.7	9.1	16.0	9.0	2.7
VINYL CHLORIDE	nd							
TRICHLOROFLUOROMETHANE (FR11)	nd							
DICHLORODIFLUOROMETHANE (FR12)	nd							
1,1,2-TRICHLOROTRIFLUOROETHANE (FR113)	nd							
BENZENE	nd							
CHLOROBENZENE	nd							
ETHYLBENZENE	nd							
TOLUENE	nd							
m&p-XYLENES	nd							
o-XYLENE	nd							
SURROGATES								
1,4 DIFLUORO BENZENE	8.6	15.0	8.6	15.0	8.6	14.8	8.6	15.0
4 BROMOFLUORO BENZENE	17.8	33.2	17.8	33.6	17.8	33.3	17.8	33.6

ND INDICATES NOT DETECTED AT A DETECTION LIMIT OF 1.0 UG/L-VAPOR FOR EACH COMPOUND

ANALYSES PERFORMED ON-SITE IN CA DOHS MOBILE LABORATORY (CERT #1667)

ANALYSES PERFORMED BY: MARK BURKE

DATA REVIEWED BY: MS. TAMARA DAVIS



GEOFON PROJECT # 04-4428.10 JPL#2
 JET PROPULSION LABORATORY
 4800 OAK GROVE DRIVE
 PASADENA, CA

HP Labs Project #GF090302T2
 GC SHIMADZU 14A
 VOLATILE HALOGENATED AND AROMATIC HYDROCARBONS (EPA Method 8021) ANALYSES OF SOIL VAPOR
 SOIL VAPOR DATA IN UG/L-VAPOR

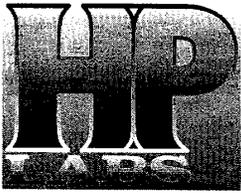
	AMBIENT BLANK	SVW11- VPA-26	SVW11- VPE-27	SVW32- VPB-28	SVW32- VPC-29	SVW32-VPC- 30 DUP	SVW32- VPD-31	SVW32- VPE-32	SVW32- VPH-33	SVW32- VPI-34	SVW32-VPJ 35	SVW32-VPJ- 36 DUP	SVW14- VPA-37	SVW14- VPB-38
DATE	09/09/02	09/09/02	09/09/02	09/09/02	09/09/02	09/09/02	09/09/02	09/09/02	09/09/02	09/09/02	09/09/02	09/09/02	09/09/02	09/09/02
ANALYSIS TIME	07:54	08:17	08:39	09:02	09:25	09:47	10:10	10:32	10:55	11:17	12:04	12:28	12:51	13:14
SAMPLING DEPTH (feet)	--	20	96	40	55	55	70	90	155	180	195	195	5	10
VOLUME WITHDRAWN (cc)	--	140	444	220	280	400	340	420	680	780	840	860	80	100
VOLUME INJECTED	1	1	1	1	1	1	1	1	1	1	1	1	1	1
DILUTION FACTOR	1	1	1	1	1	1	1	1	1	1	1	1	1	1
CARBON TETRACHLORIDE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
CHLOROETHANE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
CHLOROFORM	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
1,1-DICHLORO ETHANE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
1,2-DICHLORO ETHANE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
1,1-DICHLORO ETHENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
CIS-1,2-DICHLORO ETHENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
TRANS-1,2-DICHLORO ETHENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
DICHLOROMETHANE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
TETRACHLORO ETHENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
1,1,1,2-TETRACHLORO ETHANE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
1,1,2,2-TETRACHLORO ETHANE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
1,1,1-TRICHLORO ETHANE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
1,1,2-TRICHLORO ETHANE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
TRICHLORO ETHENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
VINYL CHLORIDE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
TRICHLOROFUOROMETHANE (FR11)	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
DICHLORODIFLUOROMETHANE (FR12)	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
1,1,2-TRICHLOROTRIFLUOROETHANE (FR113)	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
BENZENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	1.2	1.9	1.1	nd	1.1
CHLOROBENZENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
ETHYLBENZENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
TOLUENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	2.3	nd	nd	1.1
m&p-XYLENES	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
o-XYLENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
SURROGATES														
1,4 DIFLUORO BENZENE	93%	97%	94%	95%	94%	94%	96%	94%	96%	92%	92%	94%	90%	92%
4 BROMOFUORO BENZENE	100%	101%	99%	97%	96%	99%	101%	102%	100%	99%	99%	98%	96%	95%

ND INDICATES NOT DETECTED AT A DETECTION LIMIT OF 1.0 UG/L-VAPOR FOR EACH COMPOUND

ANALYSES PERFORMED ON-SITE IN CA DOHS MOBILE LABORATORY (CERT #1667)

ANALYSES PERFORMED BY: MARK BURKE

DATA REVIEWED BY: MS: TAMARA DAVIS



GEOFON PROJECT #04-4428.10 JPL#2
 JET PROPULSION LABORATORY
 4800 OAK GROVE DRIVE
 PASADENA, CA

HP Labs Project #GF090302T2
 GC SHIMADZU 14A
 VOLATILE HALOGENATED AND AROMATIC HYDROCARBONS (EPA Method 8021) ANALYSES OF SOIL VAPOR
 AREA COUNTS

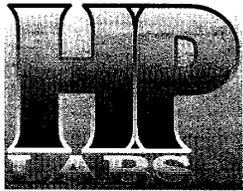
SAMPLE NAME	AMBIENT BLANK	AMBIENT BLANK	SVW11-VPA- 26	SVW11-VPA- 26	SVW11-VPE- 27	SVW11-VPE- 27	SVW32-VPB- 28	SVW32-VPB- 28	SVW32-VPC- 29	SVW32-VPC- 29
DATE	09/09/02	09/09/02	09/09/02	09/09/02	09/09/02	09/09/02	09/09/02	09/09/02	09/09/02	09/09/02
ANALYSIS TIME	7:54	7:54	8:17	8:17	8:39	8:39	9:02	9:02	9:25	9:25
SAMPLING DEPTH (feet)	--	--	20	20	96	96	40	40	55	55
VOLUME WITHDRAWN (cc)	--	--	140	140	444	444	220	220	280	280
VOLUME INJECTED	1	1	1	1	1	1	1	1	1	1
DILUTION FACTOR	1	1	1	1	1	1	1	1	1	1
	RT	AREA								
CARBON TETRACHLORIDE	nd									
CHLOROETHANE	nd									
CHLOROFORM	nd									
1,1-DICHLORO ETHANE	nd									
1,2-DICHLORO ETHANE	nd									
1,1-DICHLORO ETHENE	nd									
CIS-1,2-DICHLORO ETHENE	nd									
TRANS-1,2-DICHLORO ETHENE	nd									
DICHLOROMETHANE	nd									
TETRACHLORO ETHENE	nd									
1,1,1,2-TETRACHLORO ETHANE	nd									
1,1,2,2-TETRACHLORO ETHANE	nd									
1,1,1-TRICHLORO ETHANE	nd									
1,1,2-TRICHLORO ETHANE	nd									
TRICHLORO ETHENE	nd									
VINYL CHLORIDE	nd									
TRICHLOROFLUOROMETHANE (FR11)	nd									
DICHLORODIFLUOROMETHANE (FR12)	nd									
1,1,2-TRICHLOROTRIFLUOROETHANE (FR113)	nd									
BENZENE	nd									
CHLOROBENZENE	nd									
ETHYLBENZENE	nd									
TOLUENE	nd									
m&p-XYLENES	nd									
o-XYLENE	nd									
SURROGATES										
1,4 DIFLUORO BENZENE	8.6	14.5	8.6	15.1	8.6	14.6	8.6	14.8	8.6	14.6
4 BROMOFLUORO BENZENE	17.7	33.3	17.8	33.9	17.8	32.9	17.8	32.3	17.8	32.2

ND INDICATES NOT DETECTED AT A DETECTION LIMIT OF 1.0 UG/L-VAPOR FOR EACH COMPOUND

ANALYSES PERFORMED ON-SITE IN CA DOHS MOBILE LABORATORY (CERT #1667)

ANALYSES PERFORMED BY: MARK BURKE

DATA REVIEWED BY: MS. TAMARA DAVIS



GEOFON PROJECT #04-4428.10 JPL#2
 JET PROPULSION LABORATORY
 4800 OAK GROVE DRIVE
 PASADENA, CA

HP Labs Project #GF090302T2
 GC SHIMADZU 14A
 VOLATILE HALOGENATED AND AROMATIC HYDROCARBONS (EPA Method 8021) ANALYSES OF SOIL VAPOR
 AREA COUNTS

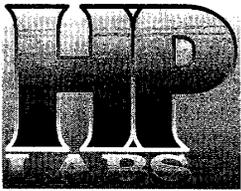
SAMPLE NAME	SVW32-VPC-	SVW32-VPC-	SVW32-VPD-	SVW32-VPD-	SVW32-VPE-	SVW32-VPE-	SVW32-VPH-	SVW32-VPH-	SVW32-VPI-	SVW32-VPI-
	30 DUP	30 DUP	31	31	32	32	33	33	34	34
DATE	09/09/02	09/09/02	09/09/02	09/09/02	09/09/02	09/09/02	09/09/02	09/09/02	09/09/02	09/09/02
ANALYSIS TIME	9:47	9:47	10:10	10:10	10:32	10:32	10:55	10:55	11:17	11:17
SAMPLING DEPTH (feet)	55	55	70	70	90	90	155	155	180	180
VOLUME WITHDRAWN (cc)	400	400	340	340	420	420	680	680	780	780
VOLUME INJECTED	1	1	1	1	1	1	1	1	1	1
DILUTION FACTOR	1	1	1	1	1	1	1	1	1	1
	RT	AREA								
CARBON TETRACHLORIDE	nd									
CHLOROETHANE	nd									
CHLOROFORM	nd									
1,1-DICHLORO ETHANE	nd									
1,2-DICHLORO ETHANE	nd									
1,1-DICHLORO ETHENE	nd									
CIS-1,2-DICHLORO ETHENE	nd									
TRANS-1,2-DICHLORO ETHENE	nd									
DICHLOROMETHANE	nd									
TETRACHLORO ETHENE	nd									
1,1,1,2-TETRACHLORO ETHANE	nd									
1,1,2,2-TETRACHLORO ETHANE	nd									
1,1,1-TRICHLORO ETHANE	nd									
1,1,2-TRICHLORO ETHANE	nd									
TRICHLORO ETHENE	nd									
VINYL CHLORIDE	nd									
TRICHLOROFLUOROMETHANE (FR11)	nd									
DICHLORODIFLUOROMETHANE (FR12)	nd									
1,1,2-TRICHLOROTRIFLUOROETHANE (FR113)	nd									
BENZENE	nd	8.0	2.5							
CHLOROBENZENE	nd									
ETHYLBENZENE	nd									
TOLUENE	nd									
m&p-XYLENES	nd									
o-XYLENE	nd									
SURROGATES										
1,4 DIFLUORO BENZENE	8.6	14.7	8.6	14.9	8.6	14.6	8.6	15.0	8.6	14.3
4 BROMOFLUORO BENZENE	17.8	33.1	17.8	33.6	17.8	34.0	17.8	33.3	17.8	33.1

ND INDICATES NOT DETECTED AT A DETECTION LIMIT OF 1.0 UG/L-VAPOR FOR EACH COMPOUND

ANALYSES PERFORMED ON-SITE IN CA DOHS MOBILE LABORATORY (CERT #1667)

ANALYSES PERFORMED BY: MARK BURKE

DATA REVIEWED BY: MS. TAMARA DAVIS



GEOFON PROJECT #04-4428.10 JPL#2
 JET PROPULSION LABORATORY
 4800 OAK GROVE DRIVE
 PASADENA, CA

HP Labs Project #GF090302T2
 GC SHIMADZU 14A
 VOLATILE HALOGENATED AND AROMATIC HYDROCARBONS (EPA Method 8021) ANALYSES OF SOIL VAPOR
 AREA COUNTS

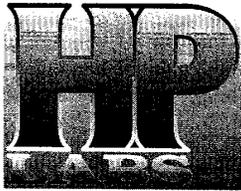
SAMPLE NAME	SVW32-VPJ-35		SVW32-VPJ-36		SVW14-VPA-37		SVW14-VPB-38	
	DATE	ANALYSIS TIME						
	09/09/02	12:04	09/09/02	12:28	09/09/02	12:51	09/09/02	13:14
	09/09/02	12:04	09/09/02	12:28	09/09/02	12:51	09/09/02	13:14
SAMPLING DEPTH (feet)	195	195	195	195	5	5	10	10
VOLUME WITHDRAWN (cc)	840	840	860	860	80	80	100	100
VOLUME INJECTED	1	1	1	1	1	1	1	1
DILUTION FACTOR	1	1	1	1	1	1	1	1
	RT	AREA	RT	AREA	RT	AREA	RT	AREA
CARBON TETRACHLORIDE	nd	nd	nd	nd	nd	nd	nd	nd
CHLOROETHANE	nd	nd	nd	nd	nd	nd	nd	nd
CHLOROFORM	nd	nd	nd	nd	nd	nd	nd	nd
1,1-DICHLORO ETHANE	nd	nd	nd	nd	nd	nd	nd	nd
1,2-DICHLORO ETHANE	nd	nd	nd	nd	nd	nd	nd	nd
1,1-DICHLORO ETHENE	nd	nd	nd	nd	nd	nd	nd	nd
CIS-1,2-DICHLORO ETHENE	nd	nd	nd	nd	nd	nd	nd	nd
TRANS-1,2-DICHLORO ETHENE	nd	nd	nd	nd	nd	nd	nd	nd
DICHLOROMETHANE	nd	nd	nd	nd	nd	nd	nd	nd
TETRACHLORO ETHENE	nd	nd	nd	nd	nd	nd	nd	nd
1,1,1,2-TETRACHLORO ETHANE	nd	nd	nd	nd	nd	nd	nd	nd
1,1,2,2-TETRACHLORO ETHANE	nd	nd	nd	nd	nd	nd	nd	nd
1,1,1-TRICHLORO ETHANE	nd	nd	nd	nd	nd	nd	nd	nd
1,1,2-TRICHLORO ETHANE	nd	nd	nd	nd	nd	nd	nd	nd
TRICHLORO ETHENE	nd	nd	nd	nd	nd	nd	nd	nd
VINYL CHLORIDE	nd	nd	nd	nd	nd	nd	nd	nd
TRICHLOROFLUOROMETHANE (FR11)	nd	nd	nd	nd	nd	nd	nd	nd
DICHLORODIFLUOROMETHANE (FR12)	nd	nd	nd	nd	nd	nd	nd	nd
1,1,2-TRICHLOROTRIFLUOROETHANE (FR113)	nd	nd	nd	nd	nd	nd	nd	nd
BENZENE	7.9	4.0	7.9	2.4	nd	nd	8.0	2.4
CHLOROBENZENE	nd	nd	nd	nd	nd	nd	nd	nd
ETHYLBENZENE	nd	nd	nd	nd	nd	nd	nd	nd
TOLUENE	11.6	4.7	nd	nd	nd	nd	11.6	2.1
m&p-XYLENES	nd	nd	nd	nd	nd	nd	nd	nd
o-XYLENE	nd	nd	nd	nd	nd	nd	nd	nd
SURROGATES								
1,4 DIFLUORO BENZENE	8.6	14.4	8.6	14.6	8.6	14.1	8.6	14.4
4 BROMOFLUORO BENZENE	17.8	33.0	17.8	32.6	17.8	32.2	17.8	31.8

ND INDICATES NOT DETECTED AT A DETECTION LIMIT OF 1.0 UG/L-VAPOR FOR EACH COMPOUND

ANALYSES PERFORMED ON-SITE IN CA DOHS MOBILE LABORATORY (CERT #1667)

ANALYSES PERFORMED BY: MARK BURKE

DATA REVIEWED BY: MS. TAMARA DAVIS



GEOFON PROJECT # 04-4428.10 JPL#2
 JET PROPULSION LABORATORY
 4800 OAK GROVE DRIVE
 PASADENA, CA

HP Labs Project #GF090302T2
 GC SHIMADZU 14A

VOLATILE HALOGENATED AND AROMATIC HYDROCARBONS (EPA Method 8021) ANALYSES OF SOIL VAPOR
 SOIL VAPOR DATA IN UG/L-VAPOR

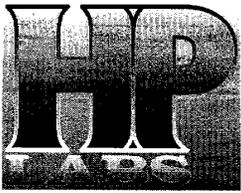
	AMBIENT BLANK	SVW13- VPB-39	SVW9- VPA-40	SVW9- VPB-41	SVW9-VPB- 42 DUP	SVW9- VPC-43	SVW9- VPD-44	SVW9- VPE-45	SVW10- VPB-46	SVW10- VPD-47	SVW10-VPD- 48 DUP	SVW8- VPC-49	SVW8- VPD-50	SVW8- VPE-51	SVW17- VPC-52
DATE	09/10/02	09/10/02	09/10/02	09/10/02	09/10/02	09/10/02	09/10/02	09/10/02	09/10/02	09/10/02	09/10/02	09/10/02	09/10/02	09/10/02	09/10/02
ANALYSIS TIME	07:35	07:57	08:20	08:43	09:05	09:27	09:49	10:11	10:33	10:55	11:17	12:08	12:31	12:54	13:20
SAMPLING DEPTH (feet)	--	20	20	35	35	50	70	87	35	69	69	50	70	90	36
VOLUME WITHDRAWN (cc)	--	140	140	200	320	260	340	408	200	336	456	260	340	420	204
VOLUME INJECTED	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
DILUTION FACTOR	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
CARBON TETRACHLORIDE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
CHLOROETHANE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
CHLOROFORM	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
1,1-DICHLORO ETHANE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
1,2-DICHLORO ETHANE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
1,1-DICHLORO ETHENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
CIS-1,2-DICHLORO ETHENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
TRANS-1,2-DICHLORO ETHENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
DICHLOROMETHANE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
TETRACHLORO ETHENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
1,1,1,2-TETRACHLORO ETHANE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
1,1,2,2-TETRACHLORO ETHANE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
1,1,1-TRICHLORO ETHANE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
1,1,2-TRICHLORO ETHANE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
TRICHLORO ETHENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
VINYL CHLORIDE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
TRICHLOROFLUOROMETHANE (FR11)	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
DICHLORODIFLUOROMETHANE (FR12)	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
1,1,2-TRICHLOROTRIFLUOROETHANE (FR113)	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
BENZENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	55
CHLOROBENZENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
ETHYLBENZENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	1.6
TOLUENE	nd	nd	nd	nd	nd	nd	1.5	nd	nd	nd	nd	nd	nd	nd	3.8
m&p-XYLENES	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	4.8
o-XYLENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	2.4
SURROGATES															
1,4 DIFLUORO BENZENE	90%	91%	93%	94%	92%	92%	91%	90%	92%	92%	90%	87%	90%	92%	95%
4 BROMOFLUORO BENZENE	93%	94%	98%	101%	96%	98%	97%	97%	100%	98%	95%	92%	96%	97%	93%

ND INDICATES NOT DETECTED AT A DETECTION LIMIT OF 1.0 UG/L-VAPOR FOR EACH COMPOUND

ANALYSES PERFORMED ON-SITE IN CA DOHS MOBILE LABORATORY (CERT #1667)

ANALYSES PERFORMED BY: MARK BURKE

DATA REVIEWED BY: MS. TAMARA DAVIS



GEOFON PROJECT #04-4428.10 JPL#2
 JET PROPULSION LABORATORY
 4800 OAK GROVE DRIVE
 PASADENA, CA

HP Labs Project #GF090302T2
 GC SHIMADZU 14A

VOLATILE HALOGENATED AND AROMATIC HYDROCARBONS (EPA Method 8021) ANALYSES OF SOIL VAPOR
 AREA COUNTS

SAMPLE NAME	AMBIENT	AMBIENT	SVW13-VPB-	SVW13-VPB-	SVW9-VPA-	SVW9-VPA-	SVW9-VPB-	SVW9-VPB-	SVW9-VPB-	SVW9-VPB-
	BLANK	BLANK	39	39	40	40	41	41	42 DUP	42 DUP
DATE	09/10/02	09/10/02	09/10/02	09/10/02	09/10/02	09/10/02	09/10/02	09/10/02	09/10/02	09/10/02
ANALYSIS TIME	7:35	7:35	7:57	7:57	8:20	8:20	8:43	8:43	9:05	9:05
SAMPLING DEPTH (feet)	--	--	20	20	20	20	35	35	35	35
VOLUME WITHDRAWN (cc)	--	--	140	140	140	140	200	200	320	320
VOLUME INJECTED	1	1	1	1	1	1	1	1	1	1
DILUTION FACTOR	1	1	1	1	1	1	1	1	1	1
	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA
CARBON TETRACHLORIDE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
CHLOROETHANE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
CHLOROFORM	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
1,1-DICHLORO ETHANE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
1,2-DICHLORO ETHANE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
1,1-DICHLORO ETHENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
CIS-1,2-DICHLORO ETHENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
TRANS-1,2-DICHLORO ETHENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
DICHLOROMETHANE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
TETRACHLORO ETHENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
1,1,1,2-TETRACHLORO ETHANE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
1,1,2,2-TETRACHLORO ETHANE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
1,1,1-TRICHLORO ETHANE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
1,1,2-TRICHLORO ETHANE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
TRICHLORO ETHENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
VINYL CHLORIDE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
TRICHLOROFLUOROMETHANE (FR11)	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
DICHLORODIFLUOROMETHANE (FR12)	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
1,1,2-TRICHLOROTRIFLUOROETHANE (FR113)	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
BENZENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
CHLOROBENZENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
ETHYLBENZENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
TOLUENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
m&p-XYLENES	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
o-XYLENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
SURROGATES										
1,4 DIFLUORO BENZENE	8.6	14.0	8.6	14.2	8.6	14.5	8.6	14.6	8.6	14.3
4 BROMOFLUORO BENZENE	17.8	30.9	17.8	31.5	17.8	32.7	17.8	33.7	17.8	32.2

ND INDICATES NOT DETECTED AT A DETECTION LIMIT OF 1.0 UG/L-VAPOR FOR EACH COMPOUND

ANALYSES PERFORMED ON-SITE IN CA DOHS MOBILE LABORATORY (CERT #1667)

ANALYSES PERFORMED BY: MARK BURKE

DATA REVIEWED BY: MS. TAMARA DAVIS



GEOFON PROJECT #04-4428.10 JPL#2
 JET PROPULSION LABORATORY
 4800 OAK GROVE DRIVE
 PASADENA, CA

HP Labs Project #GF090302T2
 GC SHIMADZU 14A
 VOLATILE HALOGENATED AND AROMATIC HYDROCARBONS (EPA Method 8021) ANALYSES OF SOIL VAPOR
 AREA COUNTS

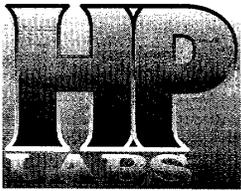
SAMPLE NAME	SVW9-VP-	SVW9-VP-	SVW9-VPD-	SVW9-VPD-	SVW9-VPE-	SVW9-VPE-	SVW10-VPB-	SVW10-VPB-	SVW10-VPD-	SVW10-VPD-
	43	43	44	44	45	45	46	46	47	47
DATE	09/10/02	09/10/02	09/10/02	09/10/02	09/10/02	09/10/02	09/10/02	09/10/02	09/10/02	09/10/02
ANALYSIS TIME	9:27	9:27	9:49	9:49	10:11	10:11	10:33	10:33	10:55	10:55
SAMPLING DEPTH (feet)	50	50	70	70	87	87	35	35	69	69
VOLUME WITHDRAWN (cc)	260	260	340	340	408	408	200	200	336	336
VOLUME INJECTED	1	1	1	1	1	1	1	1	1	1
DILUTION FACTOR	1	1	1	1	1	1	1	1	1	1
	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA
CARBON TETRACHLORIDE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
CHLOROETHANE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
CHLOROFORM	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
1,1-DICHLORO ETHANE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
1,2-DICHLORO ETHANE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
1,1-DICHLORO ETHENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
CIS-1,2-DICHLORO ETHENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
TRANS-1,2-DICHLORO ETHENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
DICHLOROMETHANE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
TETRACHLORO ETHENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
1,1,1,2-TETRACHLORO ETHANE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
1,1,2,2-TETRACHLORO ETHANE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
1,1,1-TRICHLORO ETHANE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
1,1,2-TRICHLORO ETHANE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
TRICHLORO ETHENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
VINYL CHLORIDE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
TRICHLOROFLUOROMETHANE (FR11)	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
DICHLORODIFLUOROMETHANE (FR12)	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
1,1,2-TRICHLOROTRIFLUOROETHANE (FR113)	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
BENZENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
CHLOROBENZENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
ETHYLBENZENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
TOLUENE	nd	nd	11.6	2.9	nd	nd	nd	nd	nd	nd
m&p-XYLENES	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
o-XYLENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
SURROGATES										
1,4 DIFLUORO BENZENE	8.6	14.4	8.6	14.2	8.6	14.1	8.6	14.4	8.6	14.4
4 BROMOFLUORO BENZENE	17.8	32.7	17.8	32.5	17.8	32.5	17.8	33.5	17.9	32.7

ND INDICATES NOT DETECTED AT A DETECTION LIMIT OF 1.0 UG/L-VAPOR FOR EACH COMPOUND

ANALYSES PERFORMED ON-SITE IN CA DOHS MOBILE LABORATORY (CERT #1667)

ANALYSES PERFORMED BY: MARK BURKE

DATA REVIEWED BY: MS. TAMARA DAVIS



GEOFON PROJECT #04-4428.10 JPL#2
 JET PROPULSION LABORATORY
 4800 OAK GROVE DRIVE
 PASADENA, CA

HP Labs Project #GF090302T2
 GC SHIMADZU 14A
 VOLATILE HALOGENATED AND AROMATIC HYDROCARBONS (EPA Method 8021) ANALYSES OF SOIL VAPOR
 AREA COUNTS

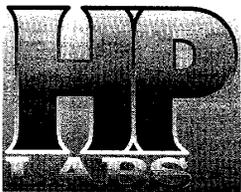
SAMPLE NAME	SVW10-VPD-	SVW10-VPD-	SVW8-VPC-	SVW8-VPC-	SVW8-VPD-	SVW8-VPD-	SVW8-VPE-	SVW8-VPE-	SVW17-VPC-	SVW17-VPC-
	48 DUP	48 DUP	49	49	50	50	51	51	52	52
DATE	09/10/02	09/10/02	09/10/02	09/10/02	09/10/02	09/10/02	09/10/02	09/10/02	09/10/02	09/10/02
ANALYSIS TIME	11:17	11:17	12:08	12:08	12:31	12:31	12:54	12:54	13:20	13:20
SAMPLING DEPTH (feet)	69	69	50	50	70	70	90	90	36	36
VOLUME WITHDRAWN (cc)	456	456	260	260	340	340	420	420	204	204
VOLUME INJECTED	1	1	1	1	1	1	1	1	1	1
DILUTION FACTOR	1	1	1	1	1	1	1	1	1	1
	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA
CARBON TETRACHLORIDE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
CHLOROETHANE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
CHLOROFORM	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
1,1-DICHLORO ETHANE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
1,2-DICHLORO ETHANE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
1,1-DICHLORO ETHENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
CIS-1,2-DICHLORO ETHENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
TRANS-1,2-DICHLORO ETHENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
DICHLOROMETHANE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
TETRACHLORO ETHENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
1,1,1,2-TETRACHLORO ETHANE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
1,1,2,2-TETRACHLORO ETHANE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
1,1,1-TRICHLORO ETHANE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
1,1,2-TRICHLORO ETHANE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
TRICHLORO ETHENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
VINYL CHLORIDE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
TRICHLOROFLUOROMETHANE (FR11)	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
DICHLORODIFLUOROMETHANE (FR12)	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
1,1,2-TRICHLOROTRIFLUOROETHANE (FR113)	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
BENZENE	nd	nd	nd	nd	nd	nd	nd	nd	8.0	117
CHLOROBENZENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
ETHYLBENZENE	nd	nd	nd	nd	nd	nd	nd	nd	15.2	2.8
TOLUENE	nd	nd	nd	nd	nd	nd	nd	nd	11.8	7.6
m&p-XYLENES	nd	nd	nd	nd	nd	nd	nd	nd	15.5	10.1
o-XYLENE	nd	nd	nd	nd	nd	nd	nd	nd	16.3	4.2
SURROGATES										
1,4 DIFLUORO BENZENE	8.6	14.1	8.6	13.6	8.6	14.0	8.6	14.3	8.6	14.8
4 BROMOFLUORO BENZENE	17.8	31.6	17.8	30.6	17.8	32.2	17.8	32.5	17.8	31.1

ND INDICATES NOT DETECTED AT A DETECTION LIMIT OF 1.0 UG/L-VAPOR FOR EACH COMPOUND

ANALYSES PERFORMED ON-SITE IN CA DOHS MOBILE LABORATORY (CERT #1667)

ANALYSES PERFORMED BY: MARK BURKE

DATA REVIEWED BY: MS. TAMARA DAVIS



GEOFON PROJECT # 04-4428.10 JPL#2
 JET PROPULSION LABORATORY
 4800 OAK GROVE DRIVE
 PASADENA, CA

HP Labs Project #GF090302T2
 GC SHIMADZU 14A

VOLATILE HALOGENATED AND AROMATIC HYDROCARBONS (EPA Method 8021) ANALYSES OF SOIL VAPOR
 SOIL VAPOR DATA IN UG/L-VAPOR

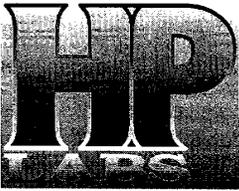
	AMBIENT BLANK	SVW36-VPB-53	SVW36-VPB-54 DUP	SVW36-VPC-55	SVW36-VPD-56	SVW36-VPE-57	SVW33-VPA-58	SVW33-VPD-59	SVW33-VPD-60 DUP
DATE	09/11/02	09/11/02	09/11/02	09/11/02	09/11/02	09/11/02	09/11/02	09/11/02	09/11/02
ANALYSIS TIME	07:20	07:43	08:06	08:28	08:51	09:14	09:38	10:01	10:24
SAMPLING DEPTH (feet)	--	35	35	55	75	92	20	85	85
VOLUME WITHDRAWN (cc)	--	200	320	280	360	428	140	400	520
VOLUME INJECTED	1	1	1	1	1	1	1	1	1
DILUTION FACTOR	1	1	1	1	1	1	1	1	1
CARBON TETRACHLORIDE	nd	nd	nd	nd	nd	nd	nd	nd	nd
CHLOROETHANE	nd	nd	nd	nd	nd	nd	nd	nd	nd
CHLOROFORM	nd	nd	nd	nd	nd	nd	nd	nd	nd
1,1-DICHLORO ETHANE	nd	nd	nd	nd	nd	nd	nd	nd	nd
1,2-DICHLORO ETHANE	nd	nd	nd	nd	nd	nd	nd	nd	nd
1,1-DICHLORO ETHENE	nd	nd	nd	nd	nd	nd	nd	nd	nd
CIS-1,2-DICHLORO ETHENE	nd	nd	nd	nd	nd	nd	nd	nd	nd
TRANS-1,2-DICHLORO ETHENE	nd	nd	nd	nd	nd	nd	nd	nd	nd
DICHLOROMETHANE	nd	nd	nd	nd	nd	nd	nd	nd	nd
TETRACHLORO ETHENE	nd	nd	nd	nd	nd	nd	nd	nd	nd
1,1,1,2-TETRACHLORO ETHANE	nd	nd	nd	nd	nd	nd	nd	nd	nd
1,1,2,2-TETRACHLORO ETHANE	nd	nd	nd	nd	nd	nd	nd	nd	nd
1,1,1-TRICHLORO ETHANE	nd	nd	nd	nd	nd	nd	nd	nd	nd
1,1,2-TRICHLORO ETHANE	nd	nd	nd	nd	nd	nd	nd	nd	nd
TRICHLORO ETHENE	nd	nd	nd	nd	nd	nd	nd	nd	nd
VINYL CHLORIDE	nd	nd	nd	nd	nd	nd	nd	nd	nd
TRICHLOROFLUOROMETHANE (FR11)	nd	nd	nd	nd	nd	nd	nd	nd	nd
DICHLORODIFLUOROMETHANE (FR12)	nd	nd	nd	nd	nd	nd	nd	nd	nd
1,1,2-TRICHLOROTRIFLUOROETHANE (FR113)	nd	nd	nd	nd	nd	nd	nd	nd	nd
BENZENE	nd	nd	nd	nd	nd	nd	nd	nd	nd
CHLOROBENZENE	nd	nd	nd	nd	nd	nd	nd	nd	nd
ETHYLBENZENE	nd	nd	nd	nd	nd	nd	nd	nd	nd
TOLUENE	nd	nd	nd	nd	nd	nd	nd	nd	nd
m&p-XYLENES	nd	nd	nd	nd	nd	nd	nd	nd	nd
o-XYLENE	nd	nd	nd	nd	nd	nd	nd	nd	nd
SURROGATES									
1,4 DIFLUORO BENZENE	95%	90%	91%	88%	89%	94%	92%	89%	90%
4 BROMOFLUORO BENZENE	103%	96%	96%	93%	96%	101%	100%	95%	98%

ND INDICATES NOT DETECTED AT A DETECTION LIMIT OF 1.0 UG/L-VAPOR FOR EACH COMPOUND

ANALYSES PERFORMED ON-SITE IN CA DOHS MOBILE LABORATORY (CERT #1667)

ANALYSES PERFORMED BY: MARK BURKE

DATA REVIEWED BY: MS. TAMARA DAVIS



GEOFON PROJECT # 04-4428.10 JPL#2
 JET PROPULSION LABORATORY
 4800 OAK GROVE DRIVE
 PASADENA, CA

HP Labs Project #GF090302T2
 GC SHIMADZU 14A

VOLATILE HALOGENATED AND AROMATIC HYDROCARBONS (EPA Method 8021) ANALYSES OF SOIL VAPOR
 SOIL VAPOR DATA IN UG/L-VAPOR

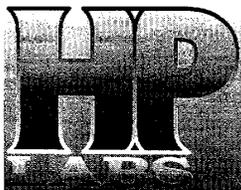
	SWW33-VPE-61	SWW33-VPF-62	SWW33-VPG-63	SWW33-VPJ-64	SWW26-VPF-65	SWW26-VPF-66	SWW26-VPG-67	SWW26-VPH-68
	DUP							
DATE	09/11/02	09/11/02	09/11/02	09/11/02	09/11/02	09/11/02	09/11/02	09/11/02
ANALYSIS TIME	10:47	11:09	12:01	12:24	12:47	13:09	13:32	13:55
SAMPLING DEPTH (feet)	105	120	140	200	115	115	140	160
VOLUME WITHDRAWN (cc)	480	540	620	860	520	640	620	700
VOLUME INJECTED	1	1	1	1	1	1	1	1
DILUTION FACTOR	1	1	1	1	1	1	1	1
CARBON TETRACHLORIDE	3.2	1.1	nd	nd	nd	nd	nd	nd
CHLOROETHANE	nd							
CHLOROFORM	nd							
1,1-DICHLORO ETHANE	nd							
1,2-DICHLORO ETHANE	nd							
1,1-DICHLORO ETHENE	nd							
CIS-1,2-DICHLORO ETHENE	nd							
TRANS-1,2-DICHLORO ETHENE	nd							
DICHLOROMETHANE	nd							
TETRACHLORO ETHENE	nd							
1,1,1,2-TETRACHLORO ETHANE	nd							
1,1,2,2-TETRACHLORO ETHANE	nd							
1,1,1-TRICHLORO ETHANE	nd							
1,1,2-TRICHLORO ETHANE	nd							
TRICHLORO ETHENE	nd							
VINYL CHLORIDE	nd							
TRICHLOROFLUOROMETHANE (FR11)	nd							
DICHLORODIFLUOROMETHANE (FR12)	nd							
1,1,2-TRICHLOROTRIFLUOROETHANE (FR113)	nd							
BENZENE	nd	1.1						
CHLOROBENZENE	nd							
ETHYLBENZENE	nd							
TOLUENE	nd							
m&p-XYLENES	nd							
o-XYLENE	nd							
SURROGATES								
1,4 DIFLUORO BENZENE	90%	90%	90%	90%	90%	90%	93%	88%
4 BROMOFLUORO BENZENE	96%	98%	98%	97%	97%	97%	103%	96%

ND INDICATES NOT DETECTED AT A DETECTION LIMIT OF 1.0 UG/L-VAPOR FOR EACH COMPOUND

ANALYSES PERFORMED ON-SITE IN CA DOHS MOBILE LABORATORY (CERT #1667)

ANALYSES PERFORMED BY: MARK BURKE

DATA REVIEWED BY: MS. TAMARA DAVIS



GEOFON PROJECT #04-4428.10 JPL#2
 JET PROPULSION LABORATORY
 4800 OAK GROVE DRIVE
 PASADENA, CA

HP Labs Project #GF090302T2
 GC SHIMADZU 14A
 VOLATILE HALOGENATED AND AROMATIC HYDROCARBONS (EPA Method 8021) ANALYSES OF SOIL VAPOR
 AREA COUNTS

SAMPLE NAME	AMBIENT	AMBIENT	SVW36-VPB-								
	BLANK	BLANK	53	53	54 DUP	54 DUP	55	55	56	56	
DATE	09/11/02	09/11/02	09/11/02	09/11/02	09/11/02	09/11/02	09/11/02	09/11/02	09/11/02	09/11/02	09/11/02
ANALYSIS TIME	7:20	7:20	7:43	7:43	8:06	8:06	8:28	8:28	8:51	8:51	
SAMPLING DEPTH (feet)	--	--	35	35	35	35	55	55	75	75	
VOLUME WITHDRAWN (cc)	--	--	200	200	320	320	280	280	360	360	
VOLUME INJECTED	1	1	1	1	1	1	1	1	1	1	
DILUTION FACTOR	1	1	1	1	1	1	1	1	1	1	
	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	
CARBON TETRACHLORIDE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	
CHLOROETHANE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	
CHLOROFORM	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	
1,1-DICHLORO ETHANE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	
1,2-DICHLORO ETHANE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	
1,1-DICHLORO ETHENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	
CIS-1,2-DICHLORO ETHENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	
TRANS-1,2-DICHLORO ETHENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	
DICHLOROMETHANE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	
TETRACHLORO ETHENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	
1,1,1,2-TETRACHLORO ETHANE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	
1,1,2,2-TETRACHLORO ETHANE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	
1,1,1-TRICHLORO ETHANE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	
1,1,2-TRICHLORO ETHANE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	
TRICHLORO ETHENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	
VINYL CHLORIDE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	
TRICHLOROFLUOROMETHANE (FR11)	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	
DICHLORODIFLUOROMETHANE (FR12)	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	
1,1,2-TRICHLOROTRIFLUOROETHANE (FR113)	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	
BENZENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	
CHLOROBENZENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	
ETHYLBENZENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	
TOLUENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	
m&p-XYLENES	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	
o-XYLENE	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	
SURROGATES											
1,4 DIFLUORO BENZENE	8.6	14.8	8.6	14.0	8.6	14.2	8.6	13.8	8.6	13.9	
4 BROMOFLUORO BENZENE	17.7	34.5	17.8	32.1	17.8	31.9	17.8	31.2	17.8	31.9	

ND INDICATES NOT DETECTED AT A DETECTION LIMIT OF 1.0 UG/L-VAPOR FOR EACH COMPOUND

ANALYSES PERFORMED ON-SITE IN CA DOHS MOBILE LABORATORY (CERT #1667)

ANALYSES PERFORMED BY: MARK BURKE

DATA REVIEWED BY: MS. TAMARA DAVIS