APPENDIX J-7:
CAMP DRESSER & MCKEE INC., "REPORT OF SAMPLING AND ANALYSIS OF SOIL GAS FOR METHANE PHASE 2 PORTION OF PLAYA VISTA," CDM PROJECT NUMBER 10610-30928.RT.RPT, NOVEMBER 2, 2000

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November 2, 2000

Ms. Maria Hoye, Esq.
Latham & Watkins
633 West Fifth Street, Suite 4000
Los Angeles, California 90071-2007

Subject: Report of Sampling and Analysis of Soil Gas for Methane
Phase 2 Portion of Playa Vista
CDM Project Number 10610-30928.RT.RPT

Dear Ms. Hoye:

Camp Dresser & McKee Inc. (CDM) observed the collection of soil gas samples from 215 locations within Areas A, B, C, and D (Phase 2 Portion) of Playa Vista between October 2, and 10, 2000. The sampling was conducted to comply with of the City of Los Angeles Department of Building and Safety and Planning requirements for baseline conditions characterization for the Phase 2 Environmental Impact Statement and Environmental Impact Report. The sampling was conducted in Areas A, B, and C under a coastal development permit exemption issued by the California Coastal Commission on September 22, 2000, amended October 6, 2000. This report summarizes the sampling and analytical procedures and laboratory testing results. Interpretation of the laboratory results will be communicated separately.

Soil gas sampling and analyses was conducted in accordance with the Protocol developed for the earlier *Sampling and Analysis of Soil Gas for Methane Within Tracts 49104-01, -03, -05, and –06 at Playa Vista* submitted to the City of Los Angeles Department of Building and Safety (LADBS) on August 10, 2000. All analytical testing was accomplished in accordance with *Test Methods for Evaluating Solid Waste Physical/Chemical Parameters, SW-846, Third Edition*.

Sampling locations were spaced on a 300-foot grid in areas of future development in Areas A, B, a small portion of C, and the Phase 2 portion of Area D. Sample locations were spaced on a 500-foot grid in the Ballona Wetlands, which comprises most of Area B. Figure 1 shows the sampling locations.

1.0 Sampling and Analyses

1.1 Sample Collection

The soil gas samples were collected by Scientific Geochemical Services (SGS) of Casper, Wyoming, using a method specified by Exploration Technologies, Inc. (ETI) described in Attachment A. Sampling locations were assigned a four-digit identification number

which also corresponds to the sample number. Before collecting each sample, two 125 milliliters (ml) and two 22 ml sample bottles fitted with septum-lined caps were prepared by flushing with nitrogen and evacuating to a vacuum of 25 inches of mercury (25" Hg).

Prior to sample collection, a ½-inch outside diameter bar was used to drive a 4-foot deep hole at each of the sampling locations. The bar was removed and a 5-foot, ½-inch outside diameter, 1/8-inch inside diameter hollow stainless steel sampling probe was inserted into the hole, and the tip driven approximately 6 additional inches into undisturbed soil. The probe was fitted with a 3-way plastic valve, a 60 cubic centimeter (cc) syringe to remove the soil gas and fill the sample bottles, and a hypodermic needle to penetrate the septum of the sample bottle to transfer the soil gas into the bottle.

Initially, the 3-way valve was turned so that it was open to the atmosphere and a new syringe was filled with atmospheric air. A 125-ml sample bottle was placed over the needle, penetrating the septum. The vacuum of the bottle was allowed to evacuate the syringe. The syringe was re-filled with atmospheric air and the bottle over pressurized by injecting approximately 60 cc of soil gas. This sample served as a blank. The valve was then turned to receive soil gas. Approximately 15 cc of gas from within the probe was purged using the syringe. The syringe was filled with soil gas and two 22-ml sample bottles were filled in the same manner as the blank. The Jerome 631-X hydrogen sulfide analyzer was attached to the probe and the 3-way valve was turned so soil gas could be withdrawn directly from the subsurface using the air pump within the hydrogen sulfide analyzer. The analyzer was allowed to withdraw soil gas for one minute and the hydrogen sulfide reading was recorded in the field log book. The 3-way valve was returned for use with the syringe and a final soil gas sample was collected with a 125 ml sample bottle in the same manner as the other samples. The septum on each sample bottle was sealed using GE brand Silicone II sealant after each bottle was filled.

The sampling probe was decontaminated between each use with a solution of water and detergent followed by a distilled water rinse. The probe was flushed with compressed air. A clean, unused syringe and hypodermic needle was used and discarded after each sample. Sampling activities were noted and logged in the field book, and samples were labeled, listed on chain of custody forms (provided in Attachment B) and shipped to the analytical laboratory for testing.

Soil gas sampling in much of Area B could not be completed as the water table was too close to the land surface. The intended sample collection depth of 4.5 feet below ground surface was below the water table throughout much of the Ballona Wetland. In addition, no sample was collected at location 6078 (Area A) due to access difficulties.

1.2 Analyses

All samples were tested for light hydrocarbons (C1 to C4 range), and benzene, toluene, ethylbenzene, and xylenes (BTEX) using EPA 8000 and 5000 series methods respectively. All analyses were performed by Microseeps at the University of Pittsburgh Applied Research Center in Pittsburgh, Pennsylvania. Analyte reporting limits for methane are 0.04 parts per million by volume (ppmv), 0.01 ppmv for ethane and ethene, and 0.03 ppmv for propane, propene, i-butane and n-butane. All samples were also analyzed in the field for hydrogen sulfide using a Jerome 631-X hydrogen sulfide analyzer. Ten percent of the soil gas samples were intended for compositional analyses of gases in addition to methane. However, concentrations of methane in the samples were sufficiently low that these analyses were not conducted.

2.0 Analyses Results

2.1 Light Hydrocarbons

The analytical data for light hydrocarbons are provided in attached Table 1. Laboratory reported data are included in Appendix B. The following tables summarize the maximum and minimum concentrations.

Light hydrocarbons in soil gas summary

Statistical Parameter	Light Hydrocarbon statistics [all measurements in parts per million per volume (ppmv)]						
	Methane	Ethane	Ethylene	Propane	Propylene	i-Butane	n-Butane
Frequency of detection	100%	98%	93%	49%	48%	16%	20%
Minimum	0.85	<0.01	<0.01	<0.03	<0.03	<0.03	<0.03
Maximum	159,900	709.93	1.14	2.30	0.92	0.63	0.71

Maximum and minimum detection locations by sample number

Locations with:	Methane	Ethane	Ethylene	Propane	Propylene	i-Butane	n-Butane
Minimum value	8004	6043, 7038, 7054, 8004, 8009	6024, 6043, 6073, 6076, 7038, 7047, 7050, 7052, 7054, 7060, 8004, 8009, 8039, 9011	109 locations	111 locations	181 locations	173 locations
Maximum value	9011	9011	9029	9029	9014	9003	8010

With the exception of methane and a few of the detections of ethane, ethylene, and propane, nearly all C1-C4 compound concentrations were below 1 ppmv for all samples.

Shallow soil gas methane concentrations ranged from 0.48 ppmv in sample 8004 to 159,900 ppmv in sample 9011. The mean methane concentration of all samples was 1,220.16 ppmv. However, the median methane concentration of all samples was 1.92 ppmv, indicating that most of the detections were well bellow 5 ppmv, but that the data included a few relatively large detections accounting for the larger mean. Two of the 215 soil gas samples had methane concentrations greater than the lower explosive limit of 5% by volume. The two samples were from locations 9003 and 9011. These samples were collected in the south central part of Area D (Figure 1).

The highest methane concentrations in soil gas were detected in Area D at locations 9003, 9004, 9007 and 9011. Methane concentrations in these samples ranged from 18,200 ppmv to 159,900 ppmv. The sampling locations are adjacent to each other, and constitute the area of Playa Vista having soil gas with the highest methane concentration measured during this sampling event. Nearby samples contain methane concentrations ranging from 100 to 480 ppmv. Methane concentrations drop off rapidly to the south and slightly less rapidly to the north and east. Methane concentrations in Areas A, B, and C were less than 9 ppmv.

Ethane concentrations ranged from non-detect at <0.01 ppmv at four locations to 709.93 ppmv at sample location 9011. Most ethane detections were below 1 ppmv. The few higher detections are associated with samples having high methane concentrations. Ethylene concentrations ranged from non-detect at <0.01 ppmv at fourteen locations to 1.14 ppmv at sample location 9029. Most ethylene detections were below 0.10 ppmv. Higher ethylene detections were generally associated with samples having high concentrations of methane. However, sample 9011, which had the highest methane concentration of all samples tested had no detection of ethylene at <0.01 ppmv.

Propane, propylene, isobutane, and n-butane concentrations ranged from non-detect at <0.03 ppmv to 2.30, 0.92, 0.63, and 0.71 ppmv respectively. Less than half of the samples had detectable concentrations of these gases. Concentrations for each of these gases were well below 0.10 ppmv in nearly all samples where the gases were detected.

2.2 *Benzene, Toluene, Ethylbenzene, and Xylenes (BTEX)*

Benzene, toluene, ethyl benzene, and xylene (BTEX) were analyzed at the 215 sampling locations. The laboratory reporting limit for all BTEX compounds was 0.07 ppmv . The laboratory report summarizing the analytical data is provided in Appendix B.

Benzene analyses results ranged from non-detect to 1.05 ppmv in sample 6044. Benzene was detected in only two of the 215 samples tested. Toluene was detected in 15 of the soil

gas samples, with the highest detection at 0.30 in sample 7046. Ethyl benzene was detected in five samples with a maximum concentration of 1.11 ppmv at location 6019. Total xylenes were detected in nine samples with a maximum detection of 0.92 ppmv in sample 6064.

2.3 *Hydrogen Sulfide*

Hydrogen sulfide concentrations were measured using a Jerome 631-X hydrogen sulfide analyzer. The results of the measurements are summarized on Table 2. The instrument detection range is between 0.003 and 50 parts per million (ppm). The instrument can report concentrations at 0.001 and 0.002 ppm, however, according to the manufacture, these concentrations are below the range of instrument accuracy. Concentrations at many of the sampling locations were reported by the instrument at 0.001 and 0.002 ppm and are considered estimated.

Hydrogen sulfide was detected at 0.003 ppmv or greater in 31 of the 215 samples tested. The highest hydrogen sulfide concentration was 0.023 ppmv at location 9014.

Sincerely,

CAMP DRESSER & McKEE INC.

Michele Zvan, R. G.
Project Manager

Mackey Smith
Vice President

cc: Mr. David Nelson, PCC
Mr. Steve Ross, PCC
Mr. Marc Huffman, PCC

Attachment A – Soil Gas Sampling Methodology
Attachment B – Laboratory Reports and Chain-of-Custody Forms

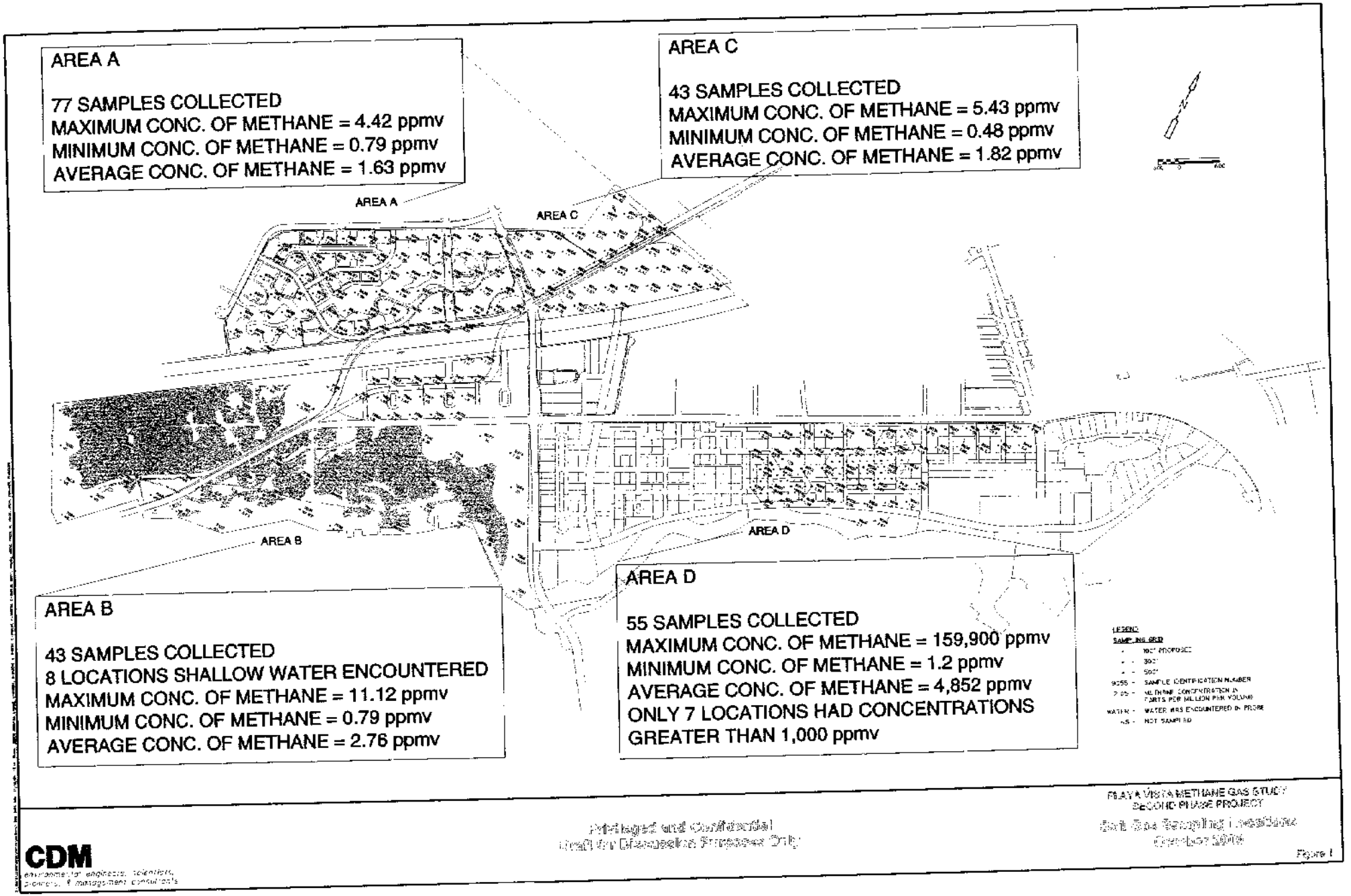

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Table 1
Summary of Analytical Results
Light Hydrocarbons (C1-C4) - Soil Gas Samples
Playa Vista
Phase 2 Area

Sample ID	Date Sampled	Methane % V	Methane ppmv	Ethane ppmv	Ethylene ppmv	Propane ppmv	Propylene ppmv	Isobutane ppmv	N-Butane ppmv
					Area A				
6001	10/02/00	*	4.42	0.09	0.08	0.04	0.07	<0.03	<0.03
6002	10/02/00	*	4.04	0.57	0.83	0.23	0.67	0.06	0.12
6003	10/02/00	*	1.13	0.04	0.04	<0.03	0.05	<0.03	<0.03
6004	10/03/00	*	2.11	0.08	0.08	0.06	0.05	<0.03	<0.03
6005	10/03/00	*	1.69	0.04	0.05	<0.03	<0.03	<0.03	<0.03
6006	10/03/00	*	1.56	0.05	0.04	<0.03	<0.03	<0.03	<0.03
6007	10/02/00	*	0.99	0.02	0.02	<0.03	<0.03	<0.03	<0.03
6008	10/02/00	*	0.70	0.03	0.02	<0.03	<0.03	<0.03	<0.03
6009	10/02/00	*	1.79	0.08	0.09	0.04	0.07	<0.03	<0.03
6010	10/02/00	*	2.33	0.11	0.09	0.06	0.06	<0.03	<0.03
6011	10/03/00	*	1.09	0.05	0.04	<0.03	<0.03	<0.03	<0.03
6012	10/03/00	*	1.27	0.10	0.08	0.04	0.06	<0.03	<0.03
6013	10/03/00	*	1.38	0.03	0.02	<0.03	<0.03	<0.03	<0.03
6014	10/02/00	*	1.50	0.04	0.02	<0.03	<0.03	<0.03	<0.03
6015	10/02/00	*	1.16	0.04	0.03	<0.03	0.04	<0.03	<0.03
6016	10/02/00	*	1.94	0.06	0.05	0.03	0.05	<0.03	<0.03
6017	10/02/00	*	1.16	0.04	0.03	<0.03	<0.03	<0.03	<0.03
6018	10/03/00	*	1.21	0.04	0.02	<0.03	<0.03	<0.03	<0.03
6019	10/03/00	*	1.46	0.06	0.04	0.03	<0.03	<0.03	<0.03
6020	10/03/00	*	1.59	0.05	0.05	0.03	<0.03	<0.03	<0.03
6021	10/02/00	*	1.48	0.02	0.02	<0.03	<0.03	<0.03	<0.03
6022	10/02/00	*	1.44	0.05	0.04	<0.03	0.05	<0.03	<0.03
6023	10/03/00	*	1.50	0.04	0.02	<0.03	<0.03	<0.03	<0.03
6024	10/03/00	*	0.54	0.01	<0.01	<0.03	<0.03	<0.03	<0.03
6025	10/03/00	*	1.30	0.09	0.09	0.03	0.08	<0.03	<0.03
6026	10/03/00	*	1.36	0.06	0.04	0.03	<0.03	<0.03	<0.03
6027	10/02/00	*	1.30	0.03	0.02	<0.03	<0.03	<0.03	<0.03
6028	10/02/00	*	1.11	0.03	0.02	<0.03	<0.03	<0.03	0.08
6029	10/03/00	*	2.85	0.06	0.08	0.04	0.06	<0.03	0.07
6030	10/03/00	*	1.27	0.09	0.09	0.03	0.06	<0.03	<0.03
6031	10/03/00	*	1.62	0.04	0.04	<0.03	<0.03	<0.03	<0.03
6032	10/03/00	*	1.23	0.04	0.04	<0.03	<0.03	<0.03	<0.03
6033	10/03/00	*	1.48	0.08	0.06	0.03	0.05	<0.03	<0.03
6034	10/03/00	*	2.00	0.08	0.08	0.04	<0.03	<0.03	<0.03
6035	10/03/00	*	1.56	0.09	0.09	0.04	0.06	<0.03	<0.03
6036	10/03/00	*	1.44	0.07	0.07	0.03	<0.03	<0.03	<0.03
6037	10/03/00	*	1.48	0.09	0.08	0.04	0.07	<0.03	<0.03
6038	10/03/00	*	1.38	0.02	0.04	<0.03	<0.03	<0.03	<0.03
6039	10/03/00	*	1.88	0.06	0.06	0.03	0.06	<0.03	<0.03
6040	10/03/00	*	1.59	0.08	0.08	0.04	0.05	<0.03	<0.03
6041	10/03/00	*	4.10	0.52	0.32	0.23	0.23	0.03	<0.03
6042	10/03/00	*	3.94	0.37	0.25	0.14	0.17	0.03	<0.03
6043	10/04/00	*	0.78	<0.01	<0.01	<0.03	<0.03	<0.03	<0.03
6044	10/04/00	*	1.75	0.06	0.06	<0.03	<0.03	<0.03	<0.03
6045	10/04/00	*	1.24	0.07	0.06	<0.03	<0.03	<0.03	<0.03
6046	10/04/00	*	1.56	0.06	0.06	<0.03	<0.03	<0.03	<0.03
6047	10/04/00	*	1.96	0.09	0.07	0.04	0.06	<0.03	<0.03
6048	10/04/00	*	1.96	0.06	0.06	<0.03	<0.03	<0.03	<0.03
6049	10/04/00	*	1.34	0.04	0.03	<0.03	<0.03	<0.03	<0.03
6050	10/04/00	*	1.49	0.02	0.02	<0.03	<0.03	<0.03	<0.03
6051	10/04/00	*	1.46	0.08	0.08	0.04	0.06	<0.03	<0.03
6052	10/04/00	*	1.30	0.06	0.05	<0.03	<0.03	<0.03	<0.03
6053	10/04/00	*	1.71	0.06	0.06	0.03	0.03	<0.03	<0.03
6054	10/04/00	*	1.28	0.02	0.03	<0.03	<0.03	<0.03	<0.03
6055	10/04/00	*	2.11	0.06	0.06	<0.03	<0.03	<0.03	<0.03
6056	10/04/00	*	2.10	0.05	0.08	<0.03	0.05	<0.03	<0.03
6057	10/04/00	*	1.08	0.05	0.05	<0.03	<0.03	<0.03	<0.03

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6058	10/04/00	*	1.07	0.05	0.06	<0.03	<0.03	<0.03	<0.03
6059	10/04/00	*	1.42	0.09	0.07	<0.03	0.06	<0.03	<0.03
6060	10/04/00	*	2.07	0.05	0.04	<0.03	<0.03	<0.03	<0.03
6061	10/04/00	*	1.20	0.02	0.01	<0.03	<0.03	<0.03	<0.03
6062	10/04/00	*	0.68	0.04	0.02	<0.03	<0.03	<0.03	<0.03
6063	10/04/00	*	2.38	0.13	0.19	0.06	0.18	<0.03	<0.03
6064	10/04/00	*	1.20	0.05	0.05	<0.03	<0.03	<0.03	<0.03
6065	10/04/00	*	0.97	0.01	0.01	<0.03	<0.03	<0.03	<0.03
6066	10/04/00	*	1.24	0.06	0.05	<0.03	<0.03	<0.03	<0.03
6067	10/04/00	*	2.06	0.08	0.04	<0.03	0.06	<0.03	<0.03
6068	10/04/00	*	1.10	0.07	0.02	<0.03	<0.03	<0.03	<0.03
6069	10/04/00	*	2.51	0.27	0.27	0.10	0.19	<0.03	<0.03
6070	10/04/00	*	0.91	0.04	0.04	<0.03	<0.03	<0.03	<0.03
6071	10/04/00	*	1.22	0.06	0.03	<0.03	<0.03	<0.03	<0.03
6072	10/04/00	*	1.08	0.03	0.03	<0.03	<0.03	<0.03	<0.03
6073	10/04/00	*	1.71	0.07	<0.01	<0.03	<0.03	<0.03	<0.03
6074	10/04/00	*	1.47	0.08	0.03	0.03	0.05	<0.03	<0.03
6075	10/04/00	*	1.67	0.03	0.03	<0.03	<0.03	<0.03	<0.03
6076	10/04/00	*	1.95	0.04	<0.01	<0.03	<0.03	<0.03	<0.03
6077	10/04/00	*	1.74	0.12	0.03	0.06	<0.03	<0.03	<0.03
					Area B				
7026	10/10/00	*	8.63	0.10	0.07	0.04	0.05	<0.03	0.19
7031	10/07/00	*	0.79	0.03	0.01	<0.03	<0.03	<0.03	0.04
7032	10/10/00	*	2.14	0.06	0.05	<0.03	<0.03	<0.03	<0.03
7033	10/10/00	*	11.12	0.04	0.02	<0.03	<0.03	<0.03	0.21
7035	10/07/00	*	3.11	0.09	0.07	0.04	0.05	<0.03	<0.03
7036	10/10/00	*	5.52	0.03	0.03	<0.03	<0.03	<0.03	0.07
7038	10/09/00	*	2.22	<0.01	<0.01	<0.03	<0.03	<0.03	0.08
7041	10/09/00	*	2.32	0.03	0.01	<0.03	<0.03	<0.03	<0.03
7042	10/09/00	*	2.51	0.05	0.01	<0.03	<0.03	<0.03	0.65
7043	10/09/00	*	1.87	0.02	0.01	<0.03	<0.03	<0.03	0.16
7045	10/09/00	*	5.39	0.05	0.03	<0.03	<0.03	<0.03	<0.03
7046	10/09/00	*	2.82	0.03	0.02	<0.03	<0.03	<0.03	<0.03
7047	10/09/00	*	3.52	0.07	<0.01	0.04	<0.03	<0.03	0.47
7048	10/09/00	*	3.09	0.09	0.02	<0.03	<0.03	<0.03	0.07
7049	10/09/00	*	2.93	0.18	0.03	0.06	<0.03	<0.03	0.12
7050	10/09/00	*	0.91	0.02	<0.01	<0.03	<0.03	<0.03	<0.03
7051	10/09/00	*	2.36	0.04	0.02	<0.03	<0.03	<0.03	<0.03
7052	10/09/00	*	2.28	0.08	<0.01	0.03	<0.03	<0.03	<0.03
7053	10/07/00	*	1.38	0.02	0.01	<0.03	<0.03	<0.03	<0.03
7054	10/07/00	*	1.21	<0.01	<0.01	<0.03	<0.03	<0.03	<0.03
7055	10/07/00	*	2.51	0.04	0.01	<0.03	<0.03	<0.03	<0.03
7057	10/07/00	*	1.72	0.03	0.01	<0.03	<0.03	<0.03	<0.03
7058	10/07/00	*	6.97	2.14	0.14	1.70	0.71	0.14	<0.03
7059	10/07/00	*	1.71	0.05	0.04	<0.03	<0.03	<0.03	<0.03
7060	10/6/00	*	1.80	0.03	< 0.01	< 0.03	< 0.03	< 0.03	<0.03
7061	10/6/00	*	1.92	0.06	0.02	< 0.03	< 0.03	< 0.03	<0.03
7062	10/07/00	*	1.87	0.08	0.04	<0.03	0.03	<0.03	<0.03
7063	10/6/00	*	2.60	0.14	0.07	0.05	0.04	< 0.03	<0.03
7064	10/6/00	*	1.44	0.06	0.02	< 0.03	< 0.03	< 0.03	<0.03
7065	10/07/00	*	1.75	0.03	0.02	<0.03	<0.03	<0.03	<0.03
7066	10/6/00	*	3.50	0.24	0.08	0.09	0.07	0.03	<0.03
7067	10/6/00	*	5.65	0.27	0.12	0.11	0.09	< 0.03	<0.03
7068	10/07/00	*	1.92	0.03	0.02	<0.03	<0.03	<0.03	<0.03
7069	10/6/00	*	2.24	0.01	0.01	< 0.03	< 0.03	< 0.03	<0.03
7070	10/6/00	*	1.40	0.09	0.07	0.03	0.05	< 0.03	<0.03
7071	10/07/00	*	2.13	0.04	0.01	<0.03	<0.03	<0.03	<0.03
7072	10/07/00	*	1.11	0.07	0.03	<0.03	<0.03	<0.03	<0.03

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Table 1
Summary of Analytical Results
Light Hydrocarbons (C1-C4) - Soil Gas Samples
Playa Vista
Phase 2 Area

Sample ID	Date Sampled	Methane % V	Methane ppmv	Ethane ppmv	Ethylene ppmv	Propane ppmv	Propylene ppmv	Isobutane ppmv	N-Butane ppmv
7073	10/6/00	*	2.03	0.03	0.02	< 0.03	< 0.03	< 0.03	<0.03
7074	10/6/00	*	1.80	0.10	0.09	0.04	0.07	< 0.03	<0.03
7075	10/07/00	*	2.34	0.02	0.01	<0.03	<0.03	<0.03	<0.03
7076	10/07/00	*	1.51	0.04	0.03	<0.03	<0.03	<0.03	<0.03
9077	10/9/00	*	1.55	0.07	0.03	<0.03	<0.03	<0.03	< 0.03
9078	10/7/00	*	1.26	0.01	0.01	<0.03	<0.03	<0.03	< 0.03
					Area C				
8001	10/05/00	*	0.64	0.01	0.02	<0.03	<0.03	<0.03	<0.03
8002	10/05/00	*	1.15	0.04	0.02	<0.03	<0.03	<0.03	0.08
8003	10/05/00	*	1.56	0.06	0.03	<0.03	<0.03	<0.03	0.07
8004	10/05/00	*	0.48	<0.01	<0.01	<0.03	<0.03	<0.03	<0.03
8005	10/05/00	*	0.99	0.06	0.04	<0.03	<0.03	<0.03	<0.03
8006	10/05/00	*	1.10	0.03	0.02	<0.03	<0.03	<0.03	<0.03
8007	10/6/00	*	2.37	0.12	0.18	0.05	0.12	< 0.03	<0.03
8008	10/6/00	*	5.32	0.40	0.66	0.17	0.45	< 0.03	<0.03
8009	10/05/00	*	0.84	<0.01	<0.01	<0.03	<0.03	<0.03	<0.03
8010	10/05/00	*	0.66	0.06	0.04	<0.03	<0.03	<0.03	0.71
8011	10/6/00	*	1.13	0.06	0.03	< 0.03	< 0.03	< 0.03	<0.03
8012	10/05/00	*	1.89	0.14	0.16	0.05	0.10	<0.03	<0.03
8013	10/6/00	*	1.85	0.13	0.04	0.04	< 0.03	< 0.03	<0.03
8014	10/6/00	*	2.87	0.20	0.04	0.07	< 0.03	< 0.03	<0.03
8015	10/05/00	*	1.53	0.05	0.02	<0.03	<0.03	<0.03	<0.03
8016	10/05/00	*	0.90	0.02	0.01	<0.03	<0.03	<0.03	<0.03
8017	10/6/00	*	2.09	0.09	0.03	< 0.03	< 0.03	< 0.03	<0.03
8018	10/6/00	*	2.42	0.10	0.07	0.04	0.05	< 0.03	<0.03
8019	10/6/00	*	0.93	0.03	0.01	< 0.03	< 0.03	< 0.03	<0.03
8020	10/6/00	*	4.30	0.06	0.03	< 0.03	< 0.03	< 0.03	<0.03
8021	10/6/00	*	1.64	0.04	0.03	< 0.03	< 0.03	< 0.03	<0.03
8022	10/6/00	*	5.43	0.59	0.82	0.27	0.66	< 0.03	<0.03
8023	10/05/00	*	0.75	0.05	0.02	<0.03	<0.03	<0.03	<0.03
8024	10/6/00	*	2.42	0.08	0.05	< 0.03	0.03	< 0.03	<0.03
8025	10/6/00	*	3.50	0.18	0.10	0.05	0.07	< 0.03	<0.03
8026	10/05/00	*	1.07	0.04	0.04	<0.03	<0.03	<0.03	<0.03
8027	10/6/00	*	2.49	0.09	0.04	0.04	0.03	< 0.03	<0.03
8028	10/6/00	*	2.14	0.13	0.06	0.05	0.05	< 0.03	<0.03
8029	10/6/00	*	2.79	0.07	0.05	< 0.03	0.04	< 0.03	<0.03
8030	10/05/00	*	1.38	0.05	0.05	<0.03	<0.03	<0.03	<0.03
8031	10/6/00	*	1.48	0.02	0.02	< 0.03	< 0.03	< 0.03	<0.03
8032	10/05/00	*	2.11	0.12	0.08	0.04	0.05	<0.03	<0.03
8033	10/05/00	*	1.58	0.10	0.05	0.03	<0.03	<0.03	< 0.03
8034	10/05/00	*	0.89	0.05	0.03	<0.03	<0.03	<0.03	< 0.03
8035	10/05/00	*	0.82	0.03	0.01	<0.03	<0.03	<0.03	0.06
8036	10/05/00	*	3.14	0.15	0.10	0.06	0.05	<0.03	< 0.03
8037	10/05/00	*	2.28	0.09	0.03	0.03	<0.03	<0.03	< 0.03
8038	10/05/00	*	0.92	0.02	<0.01	<0.03	<0.03	<0.03	< 0.03
8039	10/05/00	*	0.65	0.04	0.02	<0.03	<0.03	<0.03	< 0.03
8040	10/05/00	*	1.74	0.10	0.06	0.05	0.04	<0.03	< 0.03
8041	10/05/00	*	1.92	0.07	0.09	0.03	0.09	<0.03	< 0.03
8042	10/05/00	*	0.71	0.03	0.02	<0.03	<0.03	<0.03	< 0.03
8043	10/05/00	*	1.30	0.05	0.04	<0.03	<0.03	<0.03	< 0.03
					Area D				
9002	10/11/00	*	2.34	0.12	0.11	0.04	0.10	<0.03	<0.03
9003	10/10/00	5.43	*	249.54	0.18	1.30	0.28	0.63	0.06
9004	10/10/00	1.82	*	96.38	0.22	2.12	<0.03	0.45	< 0.03
9005A**	10/11/00	*	93.8	0.52	0.24	0.17	0.15	0.05	0.07
9005B**	10/11/00	*	7.70	0.71	0.38	0.27	0.28	0.07	0.11
9006	10/11/00	*	6.84	0.32	0.32	0.12	0.20	<0.03	<0.03
9007	10/10/00	1.82	*	210.26	0.18	0.26	0.15	0.28	< 0.03

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Table 1
Summary of Analytical Results
Light Hydrocarbons (C1-C4) - Soil Gas Samples
Playa Vista
Phase 2 Area

Sample ID	Date Sampled	Methane % V	Methane ppmv	Ethane ppmv	Ethylene ppmv	Propane ppmv	Propylene ppmv	Isobutane ppmv	N-Butane ppmv
9008	10/10/00	*	64.24	0.55	0.30	0.22	0.23	0.05	< 0.03
9009	10/11/00	*	6.35	0.75	0.45	0.29	0.37	0.08	0.13
9010	10/11/00	*	4.78	0.31	0.30	0.10	0.20	<0.03	<0.03
9011	10/10/00	15.99	*	709.93	< 0.01	1.88	0.12	0.60	< 0.03
9012	10/10/00	*	6.31	0.60	0.76	0.22	0.57	<0.03	0.11
9013	10/11/00	*	7.88	0.58	0.41	0.25	0.32	0.06	0.12
9014	10/11/00	*	194.9	1.19	0.97	0.57	0.92	0.11	0.20
9015	10/10/00	*	2.86	0.19	0.15	0.07	0.11	<0.03	< 0.03
9016	10/10/00	*	409.20	0.31	0.19	0.20	0.15	0.06	< 0.03
9017	10/11/00	*	35.2	0.54	0.33	0.21	0.24	0.04	0.06
9018	10/11/00	*	9.37	0.50	0.12	0.27	0.08	0.07	0.10
9019	10/10/00	*	2.06	0.06	0.05	<0.03	<0.03	<0.03	< 0.03
9020	10/10/00	0.48	*	0.59	0.35	0.59	0.25	0.15	0.03
9021	10/11/00	*	59.2	0.54	0.32	0.23	0.21	0.07	0.10
9022	10/11/00	0.09	*	0.77	0.41	0.34	0.26	0.08	0.14
9023	10/10/00	*	3.29	0.15	0.11	0.06	0.05	<0.03	< 0.03
9024	10/10/00	0.41	*	0.61	0.33	0.47	0.24	0.10	< 0.03
9025	10/11/00	*	8.94	0.69	0.42	0.30	0.32	0.07	0.13
9026	10/11/00	*	27.2	0.54	0.28	0.22	0.19	0.05	0.10
9027	10/10/00	*	3.62	0.18	0.07	0.07	0.07	0.04	< 0.03
9028	10/11/00	0.10	*	0.22	0.11	0.25	0.07	0.08	0.10
9029	10/11/00	0.37	*	6.42	1.14	2.30	0.77	0.44	0.70
9030	10/11/00	*	7.21	0.50	0.27	0.13	0.19	0.05	0.08
9031	10/10/00	*	2.45	0.10	0.10	0.04	0.06	<0.03	< 0.03
9032	10/11/00	*	1.61	0.13	0.11	0.05	0.10	<0.03	<0.03
9033	10/11/00	*	4.18	0.21	0.13	0.10	0.09	<0.03	0.04
9034	10/11/00	*	8.75	0.44	0.17	0.09	0.11	<0.03	<0.03
9035	10/11/00	*	4.99	0.40	0.49	0.16	0.32	<0.03	0.05
9036	10/12/00	*	4.72	0.32	0.24	0.10	0.16	< 0.03	< 0.03
9037	10/11/00	*	4.61	0.34	0.23	0.09	0.16	<0.03	0.04
9038	10/12/00	*	3.89	0.20	0.21	0.07	0.13	< 0.03	< 0.03
9039	10/11/00	*	7.68	0.54	0.23	0.15	0.21	0.04	0.06
9040	10/12/00	*	69.6	0.38	0.30	0.25	0.24	0.11	0.11
9041	10/11/00	*	20.3	0.23	0.17	0.08	0.12	<0.03	<0.03
9042	10/12/00	*	2.01	0.28	0.21	0.12	0.17	< 0.03	< 0.03
9043	10/11/00	*	4.49	0.24	0.16	0.09	0.11	<0.03	<0.03
9044	10/12/00	*	3.40	0.14	0.12	0.05	0.11	< 0.03	< 0.03
9045	10/11/00	*	2.85	0.12	0.06	0.04	0.06	0.06	<0.03
9046	10/11/00	*	1.80	0.15	0.22	0.07	0.17	<0.03	<0.03
9047	10/11/00	*	1.21	0.14	0.10	0.04	0.09	<0.03	<0.03
9048	10/12/00	*	2.67	0.18	0.05	0.10	0.08	0.05	0.06
9049	10/12/00	*	2.70	0.22	0.15	0.08	0.10	< 0.03	< 0.03
9050	10/12/00	*	168	0.37	0.19	0.15	0.22	0.04	0.06
9051	10/12/00	*	2.05	0.20	0.14	0.09	0.11	< 0.03	< 0.03
9052	10/12/00	*	1.20	0.08	0.06	0.03	0.04	< 0.03	< 0.03
9053	10/12/00	*	1.98	0.09	0.04	0.05	< 0.03	< 0.03	< 0.03
9054	10/12/00	*	1.29	0.12	0.07	0.05	0.09	< 0.03	< 0.03
9055	10/12/00	0.05	*	1.66	0.06	0.14	0.05	0.25	0.07

Notes:
ppmv - parts per million per volume
% V - percent volume
* - concentration for methane listed under other units
< - indicates not detected above reporting limits shown
** - Sample 9001 was mis-labeled in the field as 9005. The laboratory renamed the two samples labeled as 9005 as 9005A and 9005B. The actual identity of samples 9001 and 9005 could not be determined.

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Table 2
Summary of Hydrogen Sulfide Concentrations
Soil Gas Samples
Phase 2 Project Area
Playa Vista

Sample ID	Date Sampled	H_2S Concentration ppm
	Tract 03	
6001	10/02/00	0.000
6002	10/02/00	0.000
6003	10/02/00	0.000
6004	10/03/00	0.000
6005	10/03/00	0.000
6006	10/03/00	0.000
6007	10/02/00	0.000
6008	10/02/00	0.000
6009	10/02/00	0.000
6010	10/02/00	0.000
6011	10/03/00	0.000
6012	10/03/00	0.001
6013	10/03/00	0.000
6014	10/02/00	0.000
6015	10/02/00	0.000
6016	10/02/00	0.000
6017	10/02/00	0.000
6018	10/03/00	0.000
6019	10/03/00	0.001
6020	10/03/00	0.001
6021	10/02/00	0.000
6022	10/02/00	0.001
6023	10/03/00	0.000
6024	10/03/00	0.000
6025	10/03/00	0.001
6026	10/03/00	0.000
6027	10/02/00	0.000
6028	10/02/00	0.000
6029	10/03/00	0.000
6030	10/03/00	0.000
6031	10/03/00	0.000
6032	10/03/00	0.000
6033	10/03/00	0.002
6034	10/03/00	0.000
6035	10/03/00	0.000
6036	10/03/00	0.000
6037	10/03/00	0.001
6038	10/03/00	0.000
6039	10/03/00	0.000
6040	10/03/00	0.000
6041	10/03/00	0.004
6042	10/03/00	0.000
6043	10/04/00	0.000

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Table 2
Summary of Hydrogen Sulfide Concentrations
Soil Gas Samples
Phase 2 Project Area
Playa Vista

Sample ID	Date Sampled	H_2S Concentration ppm
6044	10/04/00	0.000
6045	10/04/00	0.000
6046	10/04/00	0.000
6047	10/04/00	0.002
6048	10/04/00	0.000
6049	10/04/00	0.000
6050	10/04/00	0.000
6051	10/04/00	0.000
6052	10/04/00	0.000
6053	10/04/00	0.000
6054	10/04/00	0.000
6055	10/04/00	0.000
6056	10/04/00	0.000
6057	10/04/00	0.001
6058	10/04/00	0.000
6059	10/04/00	0.000
6060	10/04/00	0.000
6061	10/04/00	0.000
6062	10/04/00	0.000
6063	10/04/00	0.000
6064	10/04/00	0.004
6065	10/04/00	0.000
6066	10/04/00	0.000
6067	10/04/00	0.000
6068	10/04/00	0.000
6069	10/04/00	0.000
6070	10/04/00	0.002
6071	10/04/00	0.000
6072	10/04/00	0.000
6073	10/04/00	0.002
6074	10/04/00	0.000
6075	10/04/00	0.000
6076	10/04/00	0.001
6077	10/04/00	0.000
	Area B	
7026	10/10/00	0.000
7031	10/07/00	0.000
7032	10/10/00	0.000
7033	10/10/00	0.000
7035	10/07/00	0.000
7036	10/10/00	No Reading Taken - Water
7041	10/09/00	No Reading Taken - Water
7042	10/09/00	0.000
7043	10/09/00	No Reading Taken - Water

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Table 2
Summary of Hydrogen Sulfide Concentrations
Soil Gas Samples
Phase 2 Project Area
Playa Vista

Sample ID	Date Sampled	H_2S Concentration ppm
7045	10/09/00	0.000
7046	10/09/00	0.000
7047	10/09/00	0.000
7048	10/09/00	0.000
7049	10/09/00	0.000
7050	10/09/00	0.000
7051	10/09/00	0.000
7052	10/07/00	0.000
7052	10/09/00	0.000
7053	10/07/00	0.000
7054	10/07/00	0.000
7055	10/07/00	0.000
7058	10/07/00	0.000
7059	10/07/00	0.000
7060	10/06/00	0.000
7061	10/06/00	0.000
7062	10/07/00	0.000
7063	10/06/00	0.000
7064	10/06/00	0.000
7065	10/07/00	0.000
7066	10/06/00	0.001
7067	10/06/00	0.002
7068	10/07/00	0.000
7069	10/06/00	0.000
7070	10/06/00	0.000
7071	10/07/00	0.000
7072	10/07/00	0.000
7073	10/06/00	0.000
7074	10/06/00	0.000
7075	10/07/00	0.000
7076	10/07/00	0.000
9077	10/09/00	0.000
9078	10/07/00	0.000
	Area C	
8001	10/05/00	0.000
8002	10/05/00	0.000
8003	10/05/00	0.000
8004	10/05/00	0.000
8005	10/05/00	0.000
8006	10/05/00	0.000
8007	10/06/00	0.000
8008	10/06/00	0.000
8009	10/05/00	0.000
8010	10/05/00	0.000

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Table 2
Summary of Hydrogen Sulfide Concentrations
Soil Gas Samples
Phase 2 Project Area
Playa Vista

Sample ID	Date Sampled	H_2S Concentration ppm
8011	10/06/00	0.002
8012	10/05/00	0.000
8013	10/06/00	0.000
8014	10/06/00	0.007
8015	10/05/00	0.000
8016	10/05/00	0.000
8017	10/06/00	0.000
8018	10/06/00	0.000
8019	10/06/00	0.000
8020	10/06/00	0.000
8021	10/06/00	0.002
8022	10/06/00	0.002
8023	10/05/00	0.000
8024	10/06/00	0.002
8025	10/06/00	0.003
8026	10/05/00	0.000
8027	10/06/00	0.003
8028	10/06/00	0.000
8029	10/06/00	0.000
8030	10/05/00	0.000
8031	10/06/00	0.017
8032	10/05/00	0.002
8033	10/05/00	0.000
8034	10/05/00	0.000
8035	10/05/00	0.000
8036	10/05/00	0.002
8037	10/05/00	0.000
8038	10/05/00	0.000
8039	10/05/00	0.000
8040	10/05/00	0.002
8041	10/05/00	0.000
8042	10/05/00	0.000
8043	10/05/00	0.000
	Area D	
9001	10/11/00	0.004
9002	10/11/00	0.007
9003	10/10/00	0.000
9004	10/10/00	0.001
9005	10/11/00	0.004
9006	10/11/00	0.010
9007	10/10/00	0.005
9008	10/10/00	0.000
9009	10/11/00	0.000
9010	10/11/00	0.004

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Table 2
Summary of Hydrogen Sulfide Concentrations
Soil Gas Samples
Phase 2 Project Area
Playa Vista

Sample ID	Date Sampled	H_2S Concentration ppm
9011	10/10/00	0.003
9012	10/10/00	0.002
9013	10/11/00	0.005
9014	10/11/00	0.023
9015	10/10/00	0.000
9016	10/10/00	0.003
9017	10/11/00	0.004
9018	10/11/00	0.002
9019	10/10/00	0.002
9020	10/10/00	0.000
9021	10/11/00	0.003
9022	10/11/00	0.009
9023	10/10/00	0.001
9024	10/10/00	0.008
9025	10/11/00	0.003
9026	10/11/00	0.000
9027	10/10/00	0.001
9028	10/11/00	0.004
9029	10/11/00	0.003
9030	10/11/00	0.006
9031	10/10/00	0.000
9032	10/11/00	0.000
9033	10/11/00	0.000
9034	10/11/00	0.000
9035	10/11/00	0.006
9036	10/12/00	0.002
9037	10/11/00	0.008
9038	10/12/00	0.004
9039	10/11/00	0.000
9040	10/12/00	0.021
9041	10/11/00	0.004
9042	10/12/00	0.000
9043	10/11/00	0.002
9044	10/12/00	0.000
9045	10/11/00	0.000
9046	10/11/00	0.007
9047	10/11/00	0.000
9048	10/12/00	0.000
9049	10/12/00	0.002
9050	10/12/00	0.000
9051	10/12/00	0.001

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Table 2
Summary of Hydrogen Sulfide Concentrations
Soil Gas Samples
Phase 2 Project Area
Playa Vista

Sample ID	Date Sampled	H_2S Concentration ppm
9052	10/12/00	0.000
9053	10/12/00	0.000
9054	10/12/00	0.000
9055	10/12/00	0.012

Notes:
PPMV - parts per million per volume
Results less than 0.003 ppm are below the range of the instrument and should be considered estimates
"No sample - water" - as gas sample was collected at water table from these samples. Sufficient gas could be collected for methane and BTEX analysis but not for hydrogen sulfide.

Attachment A
Soil Gas Sampling Methodology

FIELD AND LABORATORY PROCEDURES

FOR

SOIL VAPOR SAMPLING

Playa Vista
Los Angeles, California

Prepared by:
Exploration Technologies, Inc.
3698 Westchase Drive
Houston, Texas

January 5, 2000

TABLE OF CONTENTS

1.0 INTRODUCTION

The field procedures and protocols implemented for the Exploration Technologies, Inc. (ETI) proposed soil vapor sampling methodology is described in this plan. This Field Sampling Plan (FSP) describes the methodologies to be used during collection and analysis of soil vapor samples and the requirements for documentation and reporting.

In preparing this soil gas work plan, the following documents were consulted and implemented in developing the proposed field and analytical procedures:

- ASTM D5314-92 *Standard for Soil Gas Monitoring in the Vadose Zone*
- Los Angeles RWQCB *Interim Guidance for Active Soil Gas Investigation*

2.0 FIELD PROCEDURES

The field procedures to be used during collection of soil vapor samples are as follows:

2.1 Preparation of Soil Vapor Sampling Bottles

All soil vapor samples are collected in 22, 50 or 125-cubic centimeter (cc) glass serum bottles, depending upon available soil gas volumes. All bottles are pre-washed and soaked by filling with a detergent solution for 24 hours. These sample bottles are rinsed by filling with water and soaking for an additional 24 hours. After rinsing, the bottles are heated to 150° C for 24 hours, purged with pre-purified nitrogen (defined as 99.998% pure nitrogen with maximum levels of oxygen, total hydrocarbons and water not to exceed 5 parts per million volume (ppmv), 1 ppmv and 3 ppmv, respectively), capped and sealed with a butyl rubber septum and a crimped aluminum cap with a removable center protector.

2.2 Collection of Soil Vapor Samples

Soil vapor samples are collected in accordance with the following procedures and methodology:

1) Before initiating field activities, a utility locator will survey and clear each proposed boring or sampling location for any subsurface utilities or interferences. If an underground utility is identified within the proposed sampling location, the boring will be repositioned or relocated nearby and resurveyed for underground utilities.

2) After each sampling location is cleared of utilities, the sample hole is made with a manually operated ½ - inch outside diameter steel plunger bar to the specified sampling depth of 4, 7 or 12 feet below ground surface. This is generally located within the vadose zone above the capillary fringe, although water samples can also be collected through ETI's soil gas probe.

3) For each sampling location, two of the pre-prepared septum top glass 125-cc sample bottles are evacuated onsite with a hand pump to a vacuum of approximately 20 inches of mercury for use in collecting soil vapor and ambient air samples.

4) After each boring has been punched to the specified sampling depth, the ½-inch outside diameter plunger bar is removed from the hole.

5) Before inserting the stainless-steel sampling probe into the pre-drilled borehole, one of the evacuated sample bottles is attached to a three-way stop cock valve mounted on the top of the probe with a new 20-gauge needle attached to a 60 cc hypodermic syringe. The three-way valve is opened to allow a sample of ambient air to fill the evacuated bottle through the sampling probe and to collect a background air sample for quality control between sampling locations. An additional 60 cc of ambient air is injected into the blank sample bottle using the new syringe, after which the sample bottle is removed from the valve and the puncture hole is sealed with a silicone rubber adhesive sealant.

6) After the blank sample is collected, the sampling probe is inserted into the sample hole and purged by withdrawing at least 15 cc of ambient air using the syringe mounted on the three-way valve attached to the top of the probe. The stainless steel sampling probe has an outside diameter of ½-inch and an inside diameter of 1/8 inch and a perforated tip for collecting the soil vapor sample at the bottom of the pre-drilled hole. This volume of purge is adequate to remove ambient air from the probe, while providing minimal disturbance to the soil gas near the probe tip. A 4-foot-long sampling probe with a 1/8-inch inside diameter has an internal volume of 9.65 cc.

7) Following this purging process, the second evacuated bottle is placed on the probe needle and the valve is opened to allow soil vapor to enter the evacuated bottle. The same 60-cc syringe used to collect the ambient air sample is then used to extract an additional 60 cc of soil vapor through the probe. The additional soil vapor is injected through the three-way valve into the bottle to overpressure the sampling bottle. The sample bottle is then removed and sealed with a silicone rubber adhesive cement (similar to the above procedure for collecting blank samples). The syringe is discarded following collection of each sample. The positive pressure on the bottle will prevent the influx of ambient air into the bottle and diluting the sample vapors during transportation from the field to the laboratory.

8) All sampling equipment is decontaminated between sample collection. The ½-inch-diameter sampling probe is washed both outside and inside by injecting a detergent solution through the probe, followed by a distilled water rinse before for collecting a soil vapor sample from each location. After rinsing, the inside of the probe is flushed with compressed air at approximately 25 pounds per square inch (psi) pressure using bottled breathing air.

The ETI sampling protocol is designed to collect only a small volume of equilibrium soil vapor sample from the subsurface sediments at the selected sampling depth under various conditions. If impermeable and/or water saturated soils are encountered at the selected

sampling depth, the field personnel will observe a significant vacuum in the syringe mounted on the three-way valve such that the syringe plunger cannot be withdrawn. It will be necessary to relieve the high vacuum before a soil gas sample can be collected. In cases where high vacuum is encountered, one of the following options can be implemented depending on actual conditions in the field:

1. The probe can be pulled up a few inches to clear the free water and/or wet clays that are sealing the bottom of the probe tip.

2. A new hole can be redrilled one to two feet from the initial sampling location. In most cases, this impermeable subsurface condition is not uniformly present across the site.

Under extreme impermeable conditions, the volume of the sample to be collected can be reduced from 125 cc to 50 cc or even 22 cc.

All sampling equipment is decontaminated between sampling locations. The manually operated sampling probes and any other field equipment is decontaminated between sampling locations using a high-pressure steam cleaner. Waste or rinse water generated during steam cleaning and decontamination is contained for proper disposal offsite. The soil vapor probe is also steam-cleaned, washed with soap, rinsed and blown dry with compressed air, using bottled breathing air as described above.

2.3 Quality Control Samples

Quality control samples will include ambient air samples collected through the probe at each location and one trip blank for each day of field activity. All trip blanks and 20 percent of ambient air samples collected will be analyzed using the same analytical procedures for the suite of analytes proposed for the soil vapor samples.

2.4 Field Recording of Samples

All soil vapor collection bottles will be labeled at each sample site with an appropriate map or grid reference number. A base map will be posted daily with all completed sites, and a list of samples collected will be retained by the sampler as part of the field notes. A copy of the field form to be used during soil vapor sampling is attached.

2.5 Field Labeling/Recording of Samples

A bound record book will be used by field personnel to document and record field observations and data collected during soil vapor sample collection. The record will include the times, locations, and the person collecting the samples. Each soil vapor sample container will be labeled in the field with the following information: site number, sample collection depth, date and time of sample collection, person collecting the sample. Records of field observations/ measurements will be maintained for record keeping.

2.6 Shipment of Samples

Samples will be shipped/delivered to ETI's, or to any other designated analytical laboratory for analyses of constituents of concern following the recommended procedures of the U.S. Environmental Protection Agency (EPA) and American Society for Testing and Materials (ASTM). Samples are shipped/delivered to the designated analytical laboratory within 24 hours of collection and within the specified holding times for each analysis following appropriate chain of custody procedures as described below.

2.7 Chain of Custody Procedures/Documentation

A chain of custody form will accompany all samples collected and submitted to ETI's, or to any other designated laboratory for analysis, and are maintained as part of record keeping and documentation of the soil vapor sampling activities. All samples are maintained under chain of custody control during transportation and until transfer and receipt by the laboratory. Immediately upon receipt by the laboratory, the samples are logged in with the appropriate sample designation, matrix, time and date of sampling, analyses required, client, and the sample designation. A copy of the chain of custody form is attached.

2.8 Water Source

An onsite potable water source will be identified by site personnel for use during field activities. Deionized water used for decontamination is normally purchased from a retail store.

2.9 Disposition of Soil Vapor Collection Holes

After the soil vapor samples are collected, each soil gas sample hole is backfilled with bentonite and/or neat cement as required by the local culture and finished to grade to match existing surface materials. All wastes generated during equipment cleaning are managed in accordance with the appropriate environmental procedures.

3.0 CHAIN OF CUSTODY AND DOCUMENTATION

The following section describes the project documentation requirements and procedures to be followed during field activities and sampling.

3.1 Field Logbook

A bound logbook dedicated to the project that has consecutively numbered pages is maintained. All fieldwork performed is recorded in this logbook. At a minimum, the following information is included in the logbook:

- Date and time of arrival and departure
- Weather conditions
- Personnel on site
- Level of personal protection
- Deviations from work plan standards

- Purpose of site visit
- Timed entries of the site activities performed
- All sample identification numbers and description of sample (including related QC samples)
- Field instruments used and calibration information
- Description of the number of shipping coolers and shipping method
- Name of receiving laboratory or laboratories
- Signature of the person maintaining the logbook

In cases where separate field sheets or forms are used to record data, the specific sheets are referenced by title in the logbook. All entries in the logbook will be made with waterproof markers. The logbook is maintained for record keeping for the duration of the project.

Other information, which is recorded, includes:

- Field screening instrument readings, if any
- Brand name and amount of each material used
- Any problems encountered and their resolutions
- Date and time of start and completion of soil gas samples, and notation as to depths
- Boundaries between individual lithologies

3.2 Sample Documentation

The following sections describe the sample documentation procedures that will be used during soil vapor sampling. Complete sample documentation is required from the time of sample collection to the preparation of analytical reports to ensure the integrity of sample data generated.

3.2.1 Sample Labels and/or Tags

Each sample collected will have a label affixed immediately following sample collection. If more than one container is collected for each location, then each container from that sample location will have identical information on the sample labels plus information regarding the time that each sample is collected. Each sample label will contain the following information:

- Project code, site name, or project number
- Sample identification number
- Sampler's name
- Preservative information
- Requested analysis
- Date and time of collection
- Type of sample, either soil gas or water

3.2.2 Chain of Custody Records

Chain of custody (COC) documents is used to maintain a record of sample collection, transfer of samples between personnel, sample shipping, and receipt by the laboratory. Sample information is entered on the COC documents at the time of sample collection. If there is any transfer of samples prior to shipment, the COC will reflect the change of possession. Samples are considered to be under custody if one or more of the following criteria are met:

- The sample is in the sampler's possession
- The sample is in the sampler's view after being in possession
- The sample was in the sampler's possession and was then locked up to prevent tampering
- The sample is in a designated secure area

All samples, including quality assurance/quality control samples, will be entered on a COC form. The COC form will include name, address, phone number, and project contact; project code, site name, and project number; full sample identification numbers; sampler's name; sample matrix; sample type; number of sample containers for each identification number; requested analyses; and any other pertinent information required by the laboratory. The COC form will be signed, dated, and timed by the relinquishing and receiving party each time sample possession is transferred. Transfer of sample custody will be kept to a minimum to simplify the COC record.

3.3 Corrections to Documentation

Any corrections made to field documentation, either in the field or during review, will be made by a single strike-through, the correct information will be recorded adjacent to the corrected information, and the person making the correction will initial and date next to the correction. The person who made the initial entry will make the corrections.

3.4 Management of Investigation-Derived Wastes

Waste soil and water generated during field activities and soil vapor sampling will be stored on site. These investigation-derived wastes (IDW) will be stored in proper containers pending characterization and proper disposal to a permitted facility.

4.0 LABORATORY PROCEDURES FOR ANALYSIS OF SOIL VAPOR SAMPLES

4.1 Summary of Methodology

Analysis of the permanent gases and light hydrocarbons in a gaseous sample is accomplished using gas chromatographs following a modified procedure outlined in EPA Method 8000 in "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846 (Third Edition). If a sample loop is used to introduce the sample onto the columns, it is attached to a multi-port valve and is flushed with the carrier gas following rotation of

the valve. Direct injection by gas tight syringe is acceptable. The permanent gases are analyzed using a thermal conductivity detector (TCD). The light hydrocarbons are analyzed using a flame ionization detector (FID). C5+ compounds are analyzed using a flame ionization detector (FID). The data is transferred to a computer where it is converted to digital format, stored, and processed using a chromatography data system.

This method is recommended for use by (or under the supervision of) analysts experienced in sample preparation, the operation of gas chromatographs and in the interpretation of chromatograms.

4.2 Suite of Analysis and Reporting/Detection Limits

Concentrations of analytes in the gas sample will be reported in percent by volume (for permanent gases) and parts per million by volume (PPMV) in accordance with the following detection limits:

Light Hydrocarbons	Reporting limits, FID	Reporting limits, TCD	
Methane *	0.04 PPMV	0.10%	*
Ethane	0.01		PPMV
Ethene	0.01		PPMV
Propane	0.01		PPMV
Propene	0.01		PPMV
I-Butane	0.01		PPMV
N-Butane	0.01		PPMV

Permanent Gas	Reporting limits, TCD
Hydrogen	0.5 PPMV
Carbon dioxide	0.03%
Oxygen	1%
Nitrogen	5%

* ***NOTE: Samples and standards that contain high levels of methane must be reported using both TCD and FID methods. The results must agree to within 15% RPD.***

~~C6 Plus Analyses~~

~~The C5 plus analysis will be grouped and reported according to the relative boiling points of the following compounds:~~

NA

~~C5-Benzene~~

~~The sum of all hydrocarbons with a boiling point greater than pentane and less than benzene are reported as ppmv benzene equivalents.~~

Benzene-Toluene

The sum of all hydrocarbons with a boiling point equal to or greater than benzene and less than toluene are reported as benzene equivalents.

Toluene-Xylene

NA

The sum of all hydrocarbons with a boiling point equal to or greater than toluene and less than xylene are reported as benzene equivalents.

Xylene Plus

The sum of all hydrocarbons with a boiling point greater than p-xylene are reported as benzene equivalents.

The reporting limit of each group of components in the C5 + analysis is 1.0 PPMV.

4.3 Interferences

The most likely source of "interference" is ambient air. Due to the relatively high concentrations of oxygen and nitrogen in air, a very small amount of air as a contaminant will seriously skew the results. The analyst must take care to ensure that air is flushed from the gas tight syringe before sample preparation and that no air has entered the syringe or needle prior to injection of the sample into the gas chromatograph.

Contamination by carryover can occur whenever high-level and low-level samples are sequentially analyzed. An unrestricted flow of pure carrier gas from a 10 psig source should be allowed to flow through each sample loop for 30 seconds prior to each analyses.

Syringes should be cleaned with laboratory soap and water (Alconox or equivalent) between sample extraction and analysis to insure absence of carryover from previous samples.

As required, the analyst should demonstrate the absence of carryover contamination by analysis of the contents of the sample loop when purged with carrier gas. This demonstration should be performed when carryover contamination is suspected (after high samples). In the event that 'ghost peaks' (peaks similar to previous sample) appear when a pure carrier gas sample is analyzed, measures should be taken to eliminate the carryover contamination.

4.4 Data Collection and Archival

The output of the chromatograph is directed to a computer where the signal is converted to digital format, stored, and processed using a chromatography data system.

Tabulated data is to be made available in electronic format as specified by the client. Data will be preserved and archived for a period of time as specified by the client.

4.5 Calibration and Results

The standard calibration gas should be introduced in the same manner, as is the sample (sample loop or direct injection). Measured peak areas are converted to concentrations using certified commercial gas standards traceable to NIST standards (Matheson Gas Products and Scott Specialty Gases). Dilutes may be made to achieve multi point calibration curves.

Initial calibration is accomplished by analyzing multiple standards of appropriate calibration ranges. The results should agree to within 10% RPD. These results will be used to establish a multi-point calibration curve.

A Continuing Calibration Verification (CCV) standard will be run for every 20 samples (or more frequently if contractually required). If the instrument response for any CCV standard varies by more than 20%, the analyst will not analyze samples until the reason is determined and the problem is corrected.

4.6 Quality Control

The quality control procedures to be implemented for analysis of soil gas samples for the analytes listed in Section 2.0 shall be as follows:

1. If the requirements set forth above are not met, the analytical program will be terminated until the cause is determined and a solution is effected.

2. The analyst should demonstrate the absence of ambient air in the sample preparation system by filling a sample syringe with inert gas and injecting the inert gas onto the columns in the same manner as a sample. The results of this 'syringe blank' should show all analyte levels below the minimum detection limits.

3. Before and during sample analysis, instrument blanks (sample loop filled with flush inert gas) should be analyzed to assure the absence of interference as described in Section 3.0 above.

4. An experienced analyst should examine all chromatograms.

5. Calibration records are generated in electronic and hard copy formats and stored. All such records will be maintained in the laboratory during the course of the project and thereafter as determined by the client.

4.7 Sample Analysis and Holding Times

Each soil gas sample will be analyzed for C1-C4 and C5 plus compounds within ten working days of collection. Unless otherwise specified, all samples will be held for 30 days after the report has been submitted. Samples are then segregated, when appropriate, by type and disposed of in the proper manner. If the laboratory cannot dispose of sample remnants in an environmentally safe manner, they may be returned to the client for disposal.

Turnaround times are dependent on the tests that are required and the holding times for the various tests. In the case of holding times, they will always dictate the turnaround time of the sample. When rapid turnaround is required, it should be specified by the client and arranged in advance.

Attachment B
Laboratory Reports and Chain-of-Custody Forms

MICROSEEPS

University of Pittsburgh Applied Research Center
220 William Pitt Way, Pittsburgh, PA 15238
(412) 826-5245 ph (412) 826-3433 fax
http://www.microseeps.com

October 19, 2000

Ms. Michele Zych
Camp Dresser & McKee
18881 Von Karman
Suite 650
Irvine, CA 92612

Dear Ms. Zych:

Attached is the final data listing for the sample(s) we received on October 4, 2000, your project: PLAYA VISTA .

Please give me a call if you have questions or I can be of further assistance. Thank you for using Microseeps.

Sincerely,

Rebecca J. Hans

RJH/lsp

Attachment: CDM95-203748

Microseeps

---- CAMP DRESSER & MCKEE ----

CDM95-203748

---- LOCATION: (PLAYA VISTA) - LOS ANGELES, CA ----

Sample Names	Methane (%V)	Methane (PPMV)	Ethane (PPMV)	Ethylene (PPMV)	Propane (PPMV)	Propylene (PPMV)	Iso-Butane (PPMV)	N-Butane (PPMV)	Lab ID	Date Sampled	Date Received	Date Analyzed	Analyst
6004	*	2.11	0.08	0.08	0.06	0.05	<0.03	<0.03	T38 315	10/03/00	10/04/00	10/11/00	BC
6005	*	1.69	0.04	0.05	<0.03	<0.03	<0.03	<0.03	T38 316	10/03/00	10/04/00	10/11/00	BC
6006	*	1.56	0.05	0.04	<0.03	<0.03	<0.03	<0.03	T38 317	10/03/00	10/04/00	10/11/00	BC
6011	*	1.09	0.05	0.04	<0.03	<0.03	<0.03	<0.03	T38 318	10/03/00	10/04/00	10/11/00	BC
6012	*	1.27	0.10	0.08	0.04	0.06	<0.03	<0.03	T38 319	10/03/00	10/04/00	10/11/00	BC
6013	*	1.38	0.03	0.02	<0.03	<0.03	<0.03	<0.03	T38 320	10/03/00	10/04/00	10/11/00	BC
6018	*	1.21	0.04	0.02	<0.03	<0.03	<0.03	<0.03	T38 321	10/03/00	10/04/00	10/11/00	BC
6019	*	1.46	0.06	0.04	0.03	<0.03	<0.03	<0.03	T38 322	10/03/00	10/04/00	10/11/00	BC
6020	*	1.59	0.05	0.05	0.03	<0.03	<0.03	<0.03	T38 323	10/03/00	10/04/00	10/11/00	BC
6023	*	1.50	0.04	0.02	<0.03	<0.03	<0.03	<0.03	T38 324	10/03/00	10/04/00	10/11/00	BC
6024	*	0.54	0.01	<0.01	<0.03	<0.03	<0.03	<0.03	T38 349	10/03/00	10/04/00	10/12/00	BC
6025	*	1.30	0.09	0.09	0.03	0.08	<0.03	<0.03	T38 350	10/03/00	10/04/00	10/12/00	BC
6026	*	1.36	0.06	0.04	0.03	<0.03	<0.03	<0.03	T38 351	10/03/00	10/04/00	10/12/00	BC
6029	*	2.85	0.06	0.08	0.04	0.06	<0.03	<0.03	T38 352	10/03/00	10/04/00	10/12/00	BC
6030	*	1.27	0.09	0.09	0.03	0.06	<0.03	<0.03	T38 353	10/03/00	10/04/00	10/12/00	BC
6031	*	1.62	0.04	0.04	<0.03	<0.03	<0.03	<0.03	T38 354	10/03/00	10/04/00	10/12/00	BC
6032	*	1.23	0.04	0.04	<0.03	<0.03	<0.03	<0.03	T38 355	10/03/00	10/04/00	10/12/00	BC
6033	*	1.48	0.08	0.06	0.03	0.05	<0.03	<0.03	T38 356	10/03/00	10/04/00	10/12/00	BC
6034	*	2.00	0.08	0.08	0.04	<0.03	<0.03	<0.03	T38 357	10/03/00	10/04/00	10/12/00	BC
6035	*	1.56	0.09	0.09	0.04	0.06	<0.03	<0.03	T38 358	10/03/00	10/04/00	10/12/00	BC
6036	*	1.44	0.07	0.07	0.03	<0.03	<0.03	<0.03	T38 359	10/03/00	10/04/00	10/12/00	BC
6037	*	1.48	0.09	0.08	0.04	0.07	<0.03	<0.03	T38 360	10/03/00	10/04/00	10/12/00	BC
6038	*	1.38	0.02	0.04	<0.03	<0.03	<0.03	<0.03	T38 361	10/03/00	10/04/00	10/12/00	BC
6039	*	1.88	0.06	0.06	0.03	0.06	<0.03	<0.03	T38 362	10/03/00	10/04/00	10/12/00	BC
6040	*	1.59	0.08	0.08	0.04	0.05	<0.03	<0.03	T38 363	10/03/00	10/04/00	10/12/00	BC
6041	*	4.10	0.52	0.32	0.23	0.23	0.03	0.08	T38 364	10/03/00	10/04/00	10/12/00	BC
6042	*	3.94	0.37	0.25	0.14	0.17	0.03	0.07	T38 365	10/03/00	10/04/00	10/12/00	BC
DETECTION LIMITS	0.02	0.04	0.01	0.01	0.03	0.03	0.03	0.03					

* METHANE RESULT TAKEN FROM ALTERNATE DETECTOR

ANALYST BC

REVIEW

Microseeps

***** QUALITY CONTROL *****

CDM95-203748

----- CAMP DRESSER & MCKEE -----
----- LOCATION: (PLAYA VISTA) - LOS ANGELES, CA -----

CONTINUING CALIBRATION STANDARDS 10/11/00

COMPOUND	FILE ID	TRUE CONC.	MEASURED	% DIFF.
METHANE (FID)	T38 270	30.00	32.19	7.30
ETHANE	T38 270	10.00	10.02	0.20
ETHYLENE	T38 270	10.00	10.03	0.30
PROPANE	T38 270	10.00	10.05	0.50
PROPYLENE	T38 270	10.00	10.07	0.70
ISO-BUTANE	T38 270	10.00	10.35	3.50
N-BUTANE	T38 270	10.00	10.49	4.90

HE IN LOOP 10/11/00

COMPOUND	FILE ID	DET. LIMIT	MEASURED
METHANE (FID)	T38 272	0.04 PPMV	ND
ETHANE	T38 272	0.01 PPMV	ND
ETHYLENE	T38 272	0.01 PPMV	ND
PROPANE	T38 272	0.03 PPMV	ND
PROPYLENE	T38 272	0.03 PPMV	ND
ISO-BUTANE	T38 272	0.03 PPMV	ND
N-BUTANE	T38 272	0.03 PPMV	ND

ANALYST INITIALS

REVIEW

Microseeps

CDM95-203748

***** QUALITY CONTROL *****

----- CAMP DRESSER & MCKEE -----
----- LOCATION: (PLAYA VISTA) - LOS ANGELES, CA -----

CONTINUING CALIBRATION STANDARDS 10/12/00

COMPOUND	FILE ID	TRUE CONC.	MEASURED	% DIFF.
METHANE (FID)	T38 327	30.00	32.14	7.13
ETHANE	T38 327	10.00	10.10	1.00
ETHYLENE	T38 327	10.00	10.08	0.80
PROPANE	T38 327	10.00	10.10	1.00
PROPYLENE	T38 327	10.00	10.03	0.30
ISO-BUTANE	T38 327	10.00	10.07	0.70
N-BUTANE	T38 327	10.00	9.81	1.90

HE IN LOOP 10/12/00

COMPOUND	FILE ID	DET. LIMIT	MEASURED
METHANE (FID)	T38 329	0.04 PPMV	ND
ETHANE	T38 329	0.01 PPMV	ND
ETHYLENE	T38 329	0.01 PPMV	ND
PROPANE	T38 329	0.03 PPMV	ND
PROPYLENE	T38 329	0.03 PPMV	ND
ISO-BUTANE	T38 329	0.03 PPMV	ND
N-BUTANE	T38 329	0.03 PPMV	ND

ANALYST INITIALS BK

REVIEW

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CDM95 -203748

----- CAMP DRESSER & MCKEE -----
----- Location: PLAYA VISTA -----
----- Concentrations in PPMV -----

Sample ID	Benzene	Toluene	Ethyl Benzene	M/P Xylene	Ortho Xylene	Lab ID	Date Sampled	Date Received	Date Analyzed	Analyst
6004	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W99A481	10/03/00	10/04/00	10/05/00	JLL
6005	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W99A482	10/03/00	10/04/00	10/05/00	JLL
6006	0.12	< 0.07	< 0.07	< 0.07	< 0.07	W99A483	10/03/00	10/04/00	10/05/00	JLL
6011	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W99A484	10/03/00	10/04/00	10/05/00	JLL
6012	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W99A485	10/03/00	10/04/00	10/05/00	JLL
6013	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W99A488	10/03/00	10/04/00	10/06/00	JLL
6018	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W99A489	10/03/00	10/04/00	10/06/00	JLL
6019	< 0.07	< 0.07	1.11	0.18	< 0.07	W99A490	10/03/00	10/04/00	10/06/00	JLL
6020	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W99A491	10/03/00	10/04/00	10/06/00	JLL
6023	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W99A492	10/03/00	10/04/00	10/06/00	JLL
6024	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W99A493	10/03/00	10/04/00	10/06/00	JLL
6025	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W99A494	10/03/00	10/04/00	10/06/00	JLL
6026	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W99A495	10/03/00	10/04/00	10/06/00	JLL
6029	< 0.07	0.18	< 0.07	< 0.07	< 0.07	W99A496	10/03/00	10/04/00	10/06/00	JLL
6030	< 0.07	< 0.07	0.07	< 0.07	< 0.07	W99A497	10/03/00	10/04/00	10/06/00	JLL
6031	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A03	10/03/00	10/04/00	10/09/00	JLL
6032	< 0.07	< 0.07	< 0.07	< 0.07	0.15	W100A04	10/03/00	10/04/00	10/09/00	JLL
6033	< 0.07	< 0.07	< 0.07	0.80	< 0.07	W100A05	10/03/00	10/04/00	10/09/00	JLL
6034	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A06	10/03/00	10/04/00	10/09/00	JLL
6035	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A07	10/03/00	10/04/00	10/09/00	JLL
6036	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A08	10/03/00	10/04/00	10/09/00	JLL
6037	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A09	10/03/00	10/04/00	10/09/00	JLL
6038	< 0.07	0.14	< 0.07	< 0.07	< 0.07	W100A10	10/03/00	10/04/00	10/09/00	JLL
6039	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A11	10/03/00	10/04/00	10/09/00	JLL
6040	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A12	10/03/00	10/04/00	10/09/00	JLL
6041	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A13	10/03/00	10/04/00	10/09/00	JLL
6042	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A14	10/03/00	10/04/00	10/09/00	JLL
Detection Limits	0.07	0.07	0.07	0.07	0.07					

10/11/00

Analyst JLL

Reviewed

Microseeps

Quality Control

CDM95 -203748

----- CAMP DRESSER & MCKEE -----
----- Location: PLAYA VISTA -----
----- Concentrations in PPMV -----

Continuing Calibration Standards 10/05/00

Compound	Lab ID	True Conc.	Measured	% Diff.
Benzene	W99A464	1.25	1.24	1.12
Toluene	W99A464	1.06	1.05	1.32
Ethyl Benzene	W99A464	0.92	0.91	1.52
M/P Xylene	W99A464	1.84	1.85	0.49
Ortho Xylene	W99A464	0.92	0.92	0.43

N2 in vial 10/05/00

Compound	Lab ID	Report. Limit (ppmv)	Measured
Benzene	W99A465	0.07	ND
Toluene	W99A465	0.07	ND
Ethyl Benzene	W99A465	0.07	ND
M/P Xylene	W99A465	0.07	ND
Ortho Xylene	W99A465	0.07	ND

Continuing Calibration Standards 10/06/00

Compound	Lab ID	True Conc.	Measured	% Diff.
Benzene	W99A486	1.25	1.30	4.00
Toluene	W99A486	1.06	1.12	5.66
Ethyl Benzene	W99A486	0.92	0.96	4.46
M/P Xylene	W99A486	1.84	1.94	5.43
Ortho Xylene	W99A486	0.92	0.95	3.26

N2 in vial 10/06/00

Compound	Lab ID	Report. Limit (ppmv)	Measured
Benzene	W99A487	0.07	ND
Toluene	W99A487	0.07	ND
Ethyl Benzene	W99A487	0.07	ND
M/P Xylene	W99A487	0.07	ND
Ortho Xylene	W99A487	0.07	ND

Continuing Calibration Standards 10/09/00

Compound	Lab ID	True Conc.	Measured	% Diff.
Benzene	W100A01	1.25	1.24	0.80
Toluene	W100A01	1.06	1.11	4.72
Ethyl Benzene	W100A01	0.92	0.94	2.17
M/P Xylene	W100A01	1.84	1.86	1.09
Ortho Xylene	W100A01	0.92	0.93	1.09

N2 in vial 10/09/00

Compound	Lab ID	Report. Limit (ppmv)	Measured
Benzene	W100A02	0.07	ND
Toluene	W100A02	0.07	ND
Ethyl Benzene	W100A02	0.07	ND
M/P Xylene	W100A02	0.07	ND
Ortho Xylene	W100A02	0.07	ND

Analyst JLL

Reviewed

MICROSEEPS, Inc.

220 William Pitt Way, Pittsburgh, PA 15238

Phone: (412) 826-5245 Fax: (412) 826-3433

203 190/ CON 93

CHAIN-OF-CUSTODY RECORD

Company Name: PLAYA VISTA CO

Address: 12555 W JEFFERSON

Proj. Manager: MERCHANT

Proj. Location: LA CA 90066

Proj. Number:

Phone # : Fax # :

Sampler's signature :

Note: Enter proper letters in Requested Analyses columns below.

Note: If analysis D,E,or K is selected, scratch (option) NOT wanted.

Analysis Options

A	C1 -C4	G	Chlorinated HC
*B	Hydrogen & Helium	H	BTEX
*C	Permanent Gases (CH4, CO, CO2, N2, O2)	I	BTEX & C5 - C10
D	Mercury (Soil) or (Air **)	K	TPH (C5 - C10) or (C4 -C12)
E	TO-14 by GC/MS (Ambient) or (Source **)	L	C11 - C18
F	601 & 602 Compounds	Other	Specify below.

* An additional 22 ml vial of sample is required when requested in combination with another analysis.

** Available upon request.

Collection Date	Collection Time	Number of Containers	"Summa" # if Can. used	Sample Type	Sample Identification	Requested Analyses					(Other)	Remarks
10/3	8:55	1		SOIL GAS	6004	A						
"	"	1			6004	H						
	9:05	1			6005	A						
	"	1			6005	H						
	9:20	1			6006	A						
	"	1			6006	H						
	9:30	1			6011	A						
	"	1			6011	H						
	9:45	1			6012	A						
	"	1			6012	H						
	10:00	1			6013	A						
	"	1			6013	H						

Results to :

Invoice to :

Relinquished by :	Company : ETI	Date : 10-3-00	Time : 4:30P	Received by :	Company : CDM	Date : 10/3/00	Time : 4:35PM
Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date : 10-4-00	Time : 10 [illegible]
Relinquished by :	Company :	Date :	Time :	Received by : Fedex	Company : #8220216001 50	Date : 10/3/00	Time : 5:00PM

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203 148/ CDM 13

MICROSEEPS, Inc.

220 William Pitt Way, Pittsburgh, PA 15238

Phone: (412) 826-5245 Fax: (412) 826-3433

CHAIN-OF-CUSTODY RECORD

Note: Enter proper letters in Requested Analyses columns below.

Note: If analysis D,E,or K is selected, scratch (option) NOT wanted.

Company Name: PLAYA VISTA

Address: 12555 W JEFFERSON

Proj. Manager: MARSHAY

Proj. Location: LA CA 90066

Proj. Number:

Phone # : Fax # :

Sampler's signature :

Analysis Options

* A	C1 -C4	G	Chlorinated HC
* B	Hydrogen & Helium	H	BTEX
* C	Permanent Gases (CH4, CO, CO2, N2, O2)	J	BTEX & C5 - C10
D	Mercury (Soil) or (Air **)	K	TPH (C5 - C10) or (C4 -C12)
E	TO-14 by GC/MS (Ambient) or (Source **)	L	C11 - C18
F	601 & 602 Compounds	Other	Specify below.

* An additional 22 ml vial of sample is required when requested in combination with another analysis.

** Available upon request.

Collection Date	Collection Time	Number of Containers	"Summa" # if Can. used	Sample Type	Sample Identification	Requested Analyses					(Other)	Remarks
10-3		1	4	soil gas	6019	A						
	"	1			6019	H						
	10:20	1			6018	A						
	"	1			6018	H						
	10:48	1	4		6020	A						
	"	1			6020	H						
	11:25	1			6023	A						
	"	1			6023	H						
	11:35	1			6024	A						
	"	1			6024	H						
	11:45	1			6025	A						
	"	1			6025	H						

Results to :

Invoice to :

Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :
[signature]	ETT	10300	4:30P	[signature]	CDM	10/3/00	4:35 PM
				[signature]	—	10-4-00	1030
				Fedex	#822029600150	10/3/00	5:00 PM

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MICROSEEPS, Inc.

220 William Pitt Way, Pittsburgh, PA 15238

Phone: (412) 826-5245 Fax: (412) 826-3433

CHAIN-OF-CUSTODY RECORD

Company Name: PLAYA VISTA

Address: 12555 W JEFFERSON

Proj. Manager: MARSHALL

Proj. Location: LA CA 90066

Proj. Number:

Phone # : Fax # :

Sampler's signature:

Note: Enter proper letters in Requested Analyses columns below.

Note: If analysis D,E,or K is selected, scratch (option) NOT wanted.

Analysis Options

A	C1 -C4	G	Chlorinated HC
* B	Hydrogen & Helium	H	BTEX
* C	Permanent Gases (CH4, CO, CO2, N2, O2)	J	BTEX & C5 - C10
D	Mercury (Soil) or (Air **)	K	TPH (C5 - C10) or (C4 -C12)
E	TO-14 by GC/MS (Ambient) or (Source **)	L	C11 - C18
F	601 & 602 Compounds	Other	Specify below.

* An additional 22 ml vial of sample is required when requested in combination with another analysis.

** Available upon request.

Collection Date	Collection Time	Number of Containers	"Summa" # if Can. used	Sample Type	Sample Identification	Requested Analyses	(Other)	Remarks
10-3	1:35	1		SOILGAS	6026	A		
	"	1			6026	A		
	1:38	1			6029	A		
	"	1			6029	A		
	1:45	1			6030	A		
	"	1			6030	A		
	2:05	1			6031	A		
	"	1			6031	A		
	2:20	1			6032	A		
	"	1			6032	A		
	2:25	1			6034	A		
	"	1			6034	A		

Results to :

Invoice to :

Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :
	STJ	10-3-00	4:30P		CDM	10/3/00	4:35PM
Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :
						10-4-00	10:50
Relinquished by :	Company :	Date :	Time :	Received by : Fedex	Company : #822089600150	Date : 10/3/00	Time : 5:00 PM

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MICROSEEPS, Inc.

220 William Pitt Way, Pittsburgh, PA 15238

Phone: (412) 826-5245 Fax: (412) 826-3433

CHAIN-OF-CUSTODY RECORD

Company Name: PLAYA VISTA

Address: 12555 W JEFFERSON

Proj. Manager: MEGCHAN

Proj. Location: LA CA 90066

Proj. Number:

Phone # : Fax # :

Sampler's signature :

Note: Enter proper letters in Requested Analyses columns below.

Note: If analysis D,E,or K is selected, scratch (option) NOT wanted.

Analysis Options

* A	C1 -C4	G	Chlorinated HC
* B	Hydrogen & Helium	H	BTEX
* C	Permanent Gases (CH4, CO, CO2, N2, O2)	J	BTEX & C5 - C10
D	Mercury (Soil) or (Air **)	K	TPH (C5 - C10) or (C4 -C12)
E	TO-14 by GC/MS (Ambient) or (Source **)	L	C11 - C18
F	601 & 602 Compounds	Other	Specify below.

* An additional 22 ml vial of sample is required when requested in combination with another analysis.

** Available upon request.

Collection Date	Collection Time	Number of Containers	"Summa" # if Can. used	Sample Type	Sample Identification	Requested Analyses (Other)	Remarks
10-3	3:30	1		SOIL GAS	6039	A	
	"	1			6039	H	
	3:21	1			6041	A	
	"	1			6041	H	
	3:55	1			6042	A	CDM
	"	1			6042	H	

Results to :

Invoice to :

Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :
	SEJ	10:30a	4:30p		CDM	10/3/00	4:35PM
Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :
						10-4-00	10:??
Relinquished by :	Company :	Date :	Time :	Received by : Fedex	Company : #822029600150	Date : 10/3/00	Time : 5:00AM

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MICROSEEPS, Inc.

220 William Pitt Way, Pittsburgh, PA 15238

Phone: (412) 826-5245 Fax: (412) 826-3433

CHAIN-OF-CUSTODY RECORD

Company Name: PLAYA VISTA

Address: 12555 W JEFFERSON

Proj. Manager: MOTSCHMAN

Proj. Location: LA CA 90066

Proj. Number:

Phone # : Fax # :

Sampler's signature:

Note: Enter proper letters in Requested Analyses columns below.

Note: If analysis D,E,or K is selected, scratch (option) NOT wanted.

Analysis Options

* A	O1 -C4	G	Chlorinated HC
* B	Hydrogen & Helium	H	BTEX
* C	Permanent Gases (CH4, CO, CO2, N2, O2)	J	BTEX & C5 - C10
D	Mercury (Soil) or (Air **)	K	TPH (C5 - C10) or (C4 -C12)
E	TO-14 by GC/MS (Ambient) or (Source **)	L	C11 - C18
F	601 & 602 Compounds	Other	Specify below.

* An additional 22 ml vial of sample is required when requested in combination with another analysis.

** Available upon request.

Collection Date	Collection Time	Number of Containers	"Summa" # if Can. used	Sample Type	Sample Identification	Requested Analyses	(Other)	Remarks
10-3		1	2235	SOILGAS	6033	A		
		1	"		6033	H		
		1	2250		6035	A		
		1	"		6035	H		
		1	3:05		6036	A		
		1	"		6036	H		
		1	3:10		6037	A		
		1	"		6037	H		
		1	3:18		6038	A		
		1	"		6038	H		
		1	3:25		6040 6040	A		
		1	"		6040	H		

Results to :

Invoice to :

Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :
	ETI	10-3-00	4:30P		CDM	10/3/00	4:35pm
Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :
						10-4-00	0930
Relinquished by :	Company :	Date :	Time :	Received by : FEDEX	Company : #822029600150	Date : 10/3/00	Time : 5:00 PM

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MICROSEEPS

University of Pittsburgh Applied Research Center
220 William Pitt Way, Pittsburgh, PA 15238
(412) 826-5245 ph (412) 826-3433 fax
http://www.microseeps.com

October 19, 2000

Ms. Michele Zych
Camp Dresser & McKee
18881 Von Karman
Suite 650
Irvine, CA 92612

Dear Ms. Zych:

Attached is the final data listing for the sample(s) we received on October 5, 2000, your project: PLAYA VISTA .

Please give me a call if you have questions or I can be of further assistance. Thank you for using Microseeps.

Sincerely,

Rebecca J. Hans

RJH/lsp

Attachment: CDM96-203762

Microseeps

CDM96-203762

— CAMP DRESSER & MCKEE —
— LOCATION: (PLAYA VISTA) - LOS ANGELES, CA —

Sample Names	Methane (%V)	Methane (PPMV)	Ethane (PPMV)	Ethylene (PPMV)	Propane (PPMV)	Propylene (PPMV)	Iso-Butane (PPMV)	N-Butane (PPMV)	Lab ID	Date Sampled	Date Received	Date Analyzed	Analyst
6055	*	0.97	0.01	0.01	<0.03	<0.03	<0.03	<0.03	T38 366	10/04/00	10/05/00	10/12/00	BC
6049	*	1.34	0.04	0.03	<0.03	<0.03	<0.03	<0.03	T38 367	10/04/00	10/05/00	10/12/00	BC
6051	*	1.46	0.06	0.08	0.04	0.06	<0.03	<0.03	T38 368	10/04/00	10/05/00	10/12/00	BC
6054	*	1.28	0.02	0.03	<0.03	<0.03	<0.03	<0.03	T38 369	10/04/00	10/05/00	10/12/00	BC
6066	*	1.24	0.06	0.05	<0.03	<0.03	<0.03	<0.03	T38 370	10/04/00	10/05/00	10/12/00	BC
6043	*	0.78	<0.01	<0.01	<0.03	<0.03	<0.03	<0.03	T38 371	10/04/00	10/05/00	10/12/00	BC
6063	*	2.38	0.13	0.19	0.06	0.18	<0.03	<0.03	T38 372	10/04/00	10/05/00	10/12/00	BC
6044	*	1.75	0.06	0.06	<0.03	<0.03	<0.03	<0.03	T38 373	10/04/00	10/05/00	10/12/00	BC
6047	*	1.96	0.09	0.07	0.04	0.05	<0.03	<0.03	T38 374	10/04/00	10/05/00	10/12/00	BC
6057	*	1.08	0.05	0.05	<0.03	<0.03	<0.03	<0.03	T38 375	10/04/00	10/05/00	10/12/00	BC
6076	*	1.95	0.04	<0.01	<0.03	<0.03	<0.03	<0.03	T38 376	10/04/00	10/05/00	10/12/00	BC
6062	*	0.68	0.04	0.02	<0.03	<0.03	<0.03	<0.03	T38 377	10/04/00	10/05/00	10/12/00	BC
6046	*	1.56	0.06	0.06	<0.03	<0.03	<0.03	<0.03	T38 388	10/04/00	10/05/00	10/13/00	BC
6050	*	1.49	0.02	0.02	<0.03	<0.03	<0.03	<0.03	T38 389	10/04/00	10/05/00	10/13/00	BC
6070	*	0.91	0.04	0.04	<0.03	<0.03	<0.03	<0.03	T38 390	10/04/00	10/05/00	10/13/00	BC
6058	*	2.10	0.05	0.08	<0.03	0.05	<0.03	<0.03	T38 391	10/04/00	10/05/00	10/13/00	BC
6065	*	2.11	0.06	0.06	<0.03	<0.03	<0.03	<0.03	T38 392	10/04/00	10/05/00	10/13/00	BC
6053	*	1.71	0.06	0.06	0.03	0.03	<0.03	<0.03	T38 393	10/04/00	10/05/00	10/13/00	BC
6060	*	2.07	0.05	0.04	<0.03	<0.03	<0.03	<0.03	T38 394	10/04/00	10/05/00	10/13/00	BC
6067	*	2.06	0.08	0.04	<0.03	0.06	<0.03	<0.03	T38 395	10/04/00	10/05/00	10/13/00	BC
6052	*	1.30	0.06	0.05	<0.03	<0.03	<0.03	<0.03	T38 396	10/04/00	10/05/00	10/13/00	BC
6073	*	1.71	0.07	<0.01	<0.03	<0.03	<0.03	<0.03	T38 397	10/04/00	10/05/00	10/13/00	BC
6064	*	1.20	0.05	0.05	<0.03	<0.03	<0.03	<0.03	T38 398	10/04/00	10/05/00	10/13/00	BC
6059	*	1.42	0.09	0.07	<0.03	0.06	<0.03	<0.03	T38 399	10/04/00	10/05/00	10/13/00	BC
6069	*	2.51	0.27	0.27	0.10	0.19	<0.03	<0.03	T38 400	10/04/00	10/05/00	10/13/00	BC
6056	*	1.07	0.05	0.06	<0.03	<0.03	<0.03	<0.03	T38 401	10/04/00	10/05/00	10/13/00	BC
6045	*	1.24	0.07	0.06	<0.03	<0.03	<0.03	<0.03	T38 402	10/04/00	10/05/00	10/13/00	BC
6068	*	1.10	0.07	0.02	<0.03	<0.03	<0.03	<0.03	T38 403	10/04/00	10/05/00	10/13/00	BC
6072	*	1.08	0.03	0.03	<0.03	<0.03	<0.03	<0.03	T38 404	10/04/00	10/05/00	10/13/00	BC
6071	*	1.22	0.06	0.03	<0.03	<0.03	<0.03	<0.03	T38 405	10/04/00	10/05/00	10/13/00	BC
6048	*	1.96	0.06	0.06	<0.03	<0.03	<0.03	<0.03	T38 406	10/04/00	10/05/00	10/13/00	BC
6077	*	1.74	0.12	0.03	0.06	<0.03	<0.03	<0.03	T38 407	10/04/00	10/05/00	10/13/00	BC
6075	*	1.67	0.03	0.03	<0.03	<0.03	<0.03	<0.03	T38 408	10/04/00	10/05/00	10/13/00	BC
6074	*	1.47	0.08	0.03	0.03	0.05	<0.03	<0.03	T38 409	10/04/00	10/05/00	10/13/00	MM
6061	*	1.20	0.02	0.01	<0.03	<0.03	<0.03	<0.03	T38 410	10/04/00	10/05/00	10/13/00	MM
DETECTION LIMITS	0.02	0.04	0.01	0.01	0.03	0.03	0.03	0.03					

* METHANE RESULT TAKEN FROM ALTERNATE DETECTOR

ANALYST BC/MM

REVIEW

Microseeps

CDM96-203762

***** QUALITY CONTROL *****

----- CAMP DRESSER & MCKEE -----
----- LOCATION: (PLAYA VISTA) - LOS ANGELES, CA -----

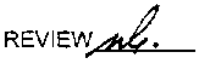
CONTINUING CALIBRATION STANDARDS 10/12/00

COMPOUND	FILE ID	TRUE CONC.	MEASURED	% DIFF.
METHANE (FID)	T38 327	30.00	32.14	7.13
ETHANE	T38 327	10.00	10.10	1.00
ETHYLENE	T38 327	10.00	10.08	0.80
PROPANE	T38 327	10.00	10.10	1.00
PROPYLENE	T38 327	10.00	10.03	0.30
ISO-BUTANE	T38 327	10.00	10.07	0.70
N-BUTANE	T38 327	10.00	9.81	1.90

HE IN LOOP 10/12/00

COMPOUND	FILE ID	DET. LIMIT	MEASURED
METHANE (FID)	T38 329	0.04 PPMV	ND
ETHANE	T38 329	0.01 PPMV	ND
ETHYLENE	T38 329	0.01 PPMV	ND
PROPANE	T38 329	0.03 PPMV	ND
PROPYLENE	T38 329	0.03 PPMV	ND
ISO-BUTANE	T38 329	0.03 PPMV	ND
N-BUTANE	T38 329	0.03 PPMV	ND

ANALYST INITIALS 

REVIEW 

Microseeps

***** QUALITY CONTROL *****

CDM96-203762

----- CAMP DRESSER & MCKEE -----
----- LOCATION: (PLAYA VISTA) - LOS ANGELES, CA -----

CONTINUING CALIBRATION STANDARDS 10/13/00

COMPOUND	FILE ID	TRUE CONC.	MEASURED	% DIFF.
METHANE (FID)	T38 379	30.00	32.28	7.60
ETHANE	T38 379	10.00	10.08	0.80
ETHYLENE	T38 379	10.00	10.06	0.60
PROPANE	T38 379	10.00	10.10	1.00
PROPYLENE	T38 379	10.00	10.17	1.70
ISO-BUTANE	T38 379	10.00	10.48	4.80
N-BUTANE	T38 379	10.00	10.95	9.50

HE IN LOOP 10/13/00

COMPOUND	FILE ID	DET. LIMIT	MEASURED
METHANE (FID)	T38 384	0.04 PPMV	ND
ETHANE	T38 384	0.01 PPMV	ND
ETHYLENE	T38 384	0.01 PPMV	ND
PROPANE	T38 384	0.03 PPMV	ND
PROPYLENE	T38 384	0.03 PPMV	ND
ISO-BUTANE	T38 384	0.03 PPMV	ND
N-BUTANE	T38 384	0.03 PPMV	ND

ANALYST INITIALS BC

REVIEW mk.

Microseeps

CDM96 -203762

----- CAMP DRESSER & MCKEE -----
----- Location: PLAYA VISTA -----
----- Concentrations in PPMV -----

Sample ID	Benzene	Toluene	Ethyl Benzene	M/P Xylene	Ortho Xylene	Lab ID	Date Sampled	Date Received	Date Analyzed	Analyst
6065	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A15	10/04/00	10/05/00	10/09/00	JLL
6049	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A16	10/04/00	10/05/00	10/09/00	JLL
6051	<0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A17	10/04/00	10/05/00	10/09/00	JLL
6054	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A18	10/04/00	10/05/00	10/09/00	JLL
6066	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A19	10/04/00	10/05/00	10/09/00	JLL
6043	< 0.07	0.09	< 0.07	< 0.07	< 0.07	W100A20	10/04/00	10/05/00	10/09/00	JLL
6063	< 0.07	< 0.07	< 0.07	< 0.07	0.44	W100A21	10/04/00	10/05/00	10/09/00	JLL
6044	1.05	< 0.07	< 0.07	< 0.07	< 0.07	W100A22	10/04/00	10/05/00	10/09/00	JLL
6047	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A25	10/04/00	10/05/00	10/10/00	JLL
6057	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A26	10/04/00	10/05/00	10/10/00	JLL
6076	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A27	10/04/00	10/05/00	10/10/00	JLL
6062	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A28	10/04/00	10/05/00	10/10/00	JLL
6046	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A29	10/04/00	10/05/00	10/10/00	JLL
6050	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A30	10/04/00	10/05/00	10/10/00	JLL
6070	< 0.07	< 0.07	< 0.07	0.22	< 0.07	W100A31	10/04/00	10/05/00	10/10/00	JLL
6056	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A32	10/04/00	10/05/00	10/10/00	JLL
6055	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A33	10/04/00	10/05/00	10/10/00	JLL
6053	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A34	10/04/00	10/05/00	10/10/00	JLL
6060	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A35	10/04/00	10/05/00	10/10/00	JLL
6067	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A36	10/04/00	10/05/00	10/10/00	JLL
6052	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A37	10/04/00	10/05/00	10/10/00	JLL
6073	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A38	10/04/00	10/05/00	10/10/00	JLL
6064	< 0.07	< 0.07	< 0.07	0.92	< 0.07	W100A39	10/04/00	10/05/00	10/10/00	JLL
6059	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A40	10/04/00	10/05/00	10/10/00	JLL
6069	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A41	10/04/00	10/05/00	10/10/00	JLL
6058	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A42	10/04/00	10/05/00	10/10/00	JLL
6045	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A43	10/04/00	10/05/00	10/10/00	JLL
6068	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A44	10/04/00	10/05/00	10/10/00	JLL
6072	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A47	10/04/00	10/05/00	10/11/00	JLL
6071	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A48	10/04/00	10/05/00	10/11/00	JLL
6048	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A49	10/04/00	10/05/00	10/11/00	JLL
6077	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A50	10/04/00	10/05/00	10/11/00	JLL
6075	< 0.07	< 0.07	< 0.07	0.12	< 0.07	W100A51	10/04/00	10/05/00	10/11/00	JLL
6074	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A52	10/04/00	10/05/00	10/11/00	JLL
6061	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A53	10/04/00	10/05/00	10/11/00	JLL
Detection Limits	0.07	0.07	0.07	0.07	0.07					

10/12/00

Analyst JLL/MAM

Reviewed

Microseeps

Quality Control

CDM96 -203762

----- CAMP DRESSER & MCKEE -----
----- Location: PLAYA VISTA -----
----- Concentrations in PPMV -----

Continuing Calibration Standards 10/09/00

Compound	Lab ID	True Conc.	Measured	% Diff.
Benzene	W100A01	1.25	1.24	0.80
Toluene	W100A01	1.06	1.11	4.72
Ethyl Benzene	W100A01	0.92	0.94	2.17
M/P Xylene	W100A01	1.84	1.86	1.09
Ortho Xylene	W100A01	0.92	0.93	1.09

N2 in vial 10/09/00

Compound	Lab ID	Report. Limit (ppmv)	Measured
Benzene	W100A02	0.07	ND
Toluene	W100A02	0.07	ND
Ethyl Benzene	W100A02	0.07	ND
M/P Xylene	W100A02	0.07	ND
Ortho Xylene	W100A02	0.07	ND

Continuing Calibration Standards 10/10/00

Compound	Lab ID	True Conc.	Measured	% Diff.
Benzene	W100A23	1.25	1.28	2.40
Toluene	W100A23	1.06	1.03	2.83
Ethyl Benzene	W100A23	0.92	0.89	3.26
M/P Xylene	W100A23	1.84	1.81	1.63
Ortho Xylene	W100A23	0.92	0.91	1.09

N2 in vial 10/10/00

Compound	Lab ID	Report. Limit (ppmv)	Measured
Benzene	W100A24	0.07	ND
Toluene	W100A24	0.07	ND
Ethyl Benzene	W100A24	0.07	ND
M/P Xylene	W100A24	0.07	ND
Ortho Xylene	W100A24	0.07	ND

Continuing Calibration Standards 10/11/00

Compound	Lab ID	True Conc.	Measured	% Diff.
Benzene	W100A45	1.25	1.31	4.80
Toluene	W100A45	1.06	1.11	4.72
Ethyl Benzene	W100A45	0.92	0.97	5.43
M/P Xylene	W100A45	1.84	1.94	5.43
Ortho Xylene	W100A45	0.92	0.97	5.43

N2 in vial 10/11/00

Compound	Lab ID	Report. Limit (ppmv)	Measured
Benzene	W100A46	0.07	ND
Toluene	W100A46	0.07	ND
Ethyl Benzene	W100A46	0.07	ND
M/P Xylene	W100A46	0.07	ND
Ortho Xylene	W100A46	0.07	ND

Analyst JLL/MAM

Reviewed

205162 / COH 16

MICROSEEPS, Inc.

220 William Pitt Way, Pittsburgh, PA 15238

Phone: (412) 826-5245 Fax: (412) 826-3433

CHAIN-OF-CUSTODY RECORD

Company Name: PUNTA VISTA

Address: 12555 W JEFFERSON

Proj. Manager: MERSCHAT

Proj. Location: LA CA 90066

Proj. Number:

Phone # : Fax # :

Sampler's signature :

Note: Enter proper letters in Requested Analyses columns below.

Note: If analysis D,E,or K is selected, scratch (option) NOT wanted.

Analysis Options

A	C1 -C4	G	Chlorinated HC
* B	Hydrogen & Helium	H	BTEX
* C	Permanent Gases (CH4, CO, CO2, N2, O2)	J	BTEX & C5 - C10
D	Mercury (Soil) or (Air **)	K	TPH (C5 - C10) or (C4 -C12)
E	TO-14 by GC/MS (Ambient) or (Source **)	L	C11 - C18
F	601 & 602 Compounds	Other	Specify below.

* An additional 22 ml vial of sample is required when requested in combination with another analysis.

** Available upon request.

Collection Date (2000)	Time	Number of Containers	"Summa" # if Can. used	Sample Type	Sample Identification	Requested Analyses	(Other)	Remarks
OCT 4	215	1		SOIL GAS	6070	A		
	220	1			6070	A		
	222	1			6074	A		
	227	1			6074	A		
	225	1			6075	A		
	230	1			6075	A		
	250	1			6077	A		
	255	1			6077	A		
	320	1			6076	A		
	325	1			6076	A		
	330	1			6071	A		
	335	1			6071	A		

Results to :

Invoice to :

Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :
	ET	6004 (2000)	5P		CDM	10/4/00	5:05PM
Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :
						10-5-00	1300
Relinquished by :	Company :	Date :	Time :	Received by : Fedex	Company : # 8220 29600160	Date : 10/4/00	Time : 5:20 pm

WHITE COPY : Laboratory to return. YELLOW COPY : Laboratory PINK COPY : Submitter

MICROSEEPS, Inc.

220 William Pitt Way, Pittsburgh, PA 15238

Phone: (412) 826-5245 Fax: (412) 826-3433

CHAIN-OF-CUSTODY RECORD

Company Name: PLAYA VISTA

Address: 12555 W JEFFERSON

Proj. Manager: MERSCHAT

Proj. Location: LA CA 90066

Proj. Number:

Phone # : Fax # :

Sampler's signature:

Note: Enter proper letters in Requested Analyses columns below.

Note: If analysis D,E,or K is selected, scratch (option) NOT wanted.

Analysis Options

* A	C1 -C4	G	Chlorinated HC
* B	Hydrogen & Helium	H	BTEX
* C	Permanent Gases (CH4, CO, CO2, N2, O2)	J	BTEX & C5 - C10
D	Mercury (Soil) or (Air **)	K	TPH (C5 - C10) or (C4 -C12)
E	TO-14 by GC/MS (Ambient) or (Source **)	L	C11 - C18
F	601 & 602 Compounds	Other	Specify below.

* An additional 22 ml vial of sample is required when requested in combination with another analysis.

** Available upon request.

2000 Collection Date	Time	Number of Containers	"Summa" # if Can. used	Sample Type	Sample Identification	Requested Analyses	(Other)	Remarks
10-4	1151	1		BLDAS	6058	A H		
	1153	1			6058	A H		
	1157	1			6057	A H		
	(200)	1			6057	A H		
	1205	1			* 6063	A H		
	1210	1			6063	A H		
	1205	1			6064	A H		
	1210	1			6064	A H		
	1211	1			6065	A H		
	1216	1			6065	A H		
	700	1			6069	A H		
	205	1			6069	A H		

Results to :

Invoice to :

Relinquished by :	Company :	Date : 2000 OCT 4	Time : 5P	Received by :	Company : CDM	Date : 10/4/00	Time : 5:05pm
Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date : 10-5-00	Time : 13:00
Relinquished by :	Company :	Date :	Time :	Received by : Fedex	Company : #820 2960 0160	Date : 10/4/00	Time : 5:20pm

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MICROSEEPS, Inc.

220 William Pitt Way, Pittsburgh, PA 15238

Phone: (412) 826-5245 Fax: (412) 826-3433

2051627 COM 10 K

CHAIN-OF-CUSTODY RECORD

Company Name: PLAYA VISTA

Address: 12555 W JEFFERSON

Proj. Manager: MERSCHAT

Proj. Location: LA CA 90066

Proj. Number:

Phone # : Fax # :

Sampler's signature :

Note: Enter proper letters in Requested Analyses columns below.

Note: If analysis D,E,or K is selected, scratch (option) NOT wanted.

Analysis Options

* A	C1 -C4	G	Chlorinated HC
*B	Hydrogen & Helium	H	BTEX
* C	Permanent Gases (CH4, CO, CO2, N2, O2)	J	BTEX & C5 - C10
D	Mercury (Soil) or (Air **)	K	TPH (C5 - C10) or (C4 -C12)
E	TO-14 by GC/MS (Ambient) or (Source **)	L	C11 - C18
F	601 & 602 Compounds	Other	Specify below.

* An additional 22 ml vial of sample is required when requested in combination with another analysis.

** Available upon request.

Collection Date	Collection Time	Number of Containers	"Summa" # if Can. used	Sample Type	Sample Identification	Requested Analyses	(Other)	Remarks
10-4	1105	1		SOIL GAS	6055	A		
	1110	1			6055	H		
	1111	1			6056	A		
	1116	1			6056	H		
	1115	1			6062	A		
	1120	1			6062	H		
	1135	1			6061	A		
	1140	1			6061	H		
	1141	1			6060	A		
	1146	1			6060	H		
	1150	1			6059	A		
	1155	1			6059	H		

Results to :

Invoice to :

Relinquished by :	Company : EFI	Date : 2000 Oct 4	Time : 5P	Received by :	Company : CDM	Date : 10/4/00	Time : 5:05pm
Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date : 10-5-00	Time : 13
Relinquished by :	Company :	Date :	Time :	Received by : Fedex	Company : # 422029600160	Date : 10/4/00	Time : 5:20pm

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MICROSEEPS, Inc.

220 William Pitt Way, Pittsburgh, PA 15238

Phone: (412) 826-5245 Fax: (412) 826-3433

CHAIN-OF-CUSTODY RECORD

Company Name: PLAYA VISTA

Address: 12555 W JEFFERSON

Proj. Manager: MERSCHAT

Proj. Location: LA CA

Proj. Number:

Phone # : Fax # :

Sampler's signature:

Note: Enter proper letters in Requested Analyses columns below.

Note: If analysis D,E,or K is selected, scratch (option) NOT wanted.

Analysis Options

A	C1 -C4	G	Chlorinated HC
* B	Hydrogen & Helium	H	BTEX
* C	Permanent Gases (CH4, CO, CO2, N2, O2)	J	BTEX & C5 - C10
D	Mercury (Soil) or (Air **)	K	TPH (C5 - C10) or (C4 -C12)
E	TO-14 by GC/MS (Ambient) or (Source **)	L	C11 - C18
F	601 & 602 Compounds	Other	Specify below.

* An additional 22 ml vial of sample is required when requested in combination with another analysis.

** Available upon request.

Collection Date	Collection Time	Number of Containers	"Summa" # if Can. used	Sample Type	Sample Identification	Requested Analyses					(Other)	Remarks
10-4	1000	1		SOILGAS	6046	A						
	1005	1			6046	H						
	1007	1			6045	A						
	1012	1			6045	H						
	1010	1			6051	A						
	1015	1			6051	H						
	1018	1			6052	A						
	1023	1			6052	H						
"	1025	1			6053	A						
	1030	1			6053	H						
	1030	1			6054	A						
	1035	1			6054	H						

Results to :

Invoice to :

Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :
	SJ	2000 OCT 4	5P		CDM	10/4/00	5:05PM
Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :
						10-5-00	13 00
Relinquished by :	Company :	Date :	Time :	Received by : Fedex	Company : # 8220 2960 0160	Date : 10/4/00	Time : 5:20pm

WHITE COPY : Laboratory to return. YELLOW COPY : Laboratory PINK COPY : Submitter

MICROSEEPS, Inc.

220 William Pitt Way, Pittsburgh, PA 15238

Phone: (412) 826-5245 Fax: (412) 826-3433

20376L / COM 96

CHAIN-OF-CUSTODY RECORD

Company Name: PLAYA VISTA

Address: 12555 W JEFFERSON

Proj. Manager: MERSCHAT

Proj. Location: LA CA 90066

Proj. Number:

Phone # : Fax # :

Sampler's signature:

Note: Enter proper letters in Requested Analyses columns below.

Note: If analysis D,E,or K is selected, scratch (option) NOT wanted.

Analysis Options

* A	C1 -C4	G	Chlorinated HC
* B	Hydrogen & Helium	H	BTEX
* C	Permanent Gases (CH4, CO, CO2, N2, O2)	J	BTEX & C5 - C10
D	Mercury (Soil) or (Air **)	K	TPH (C5 - C10) or (C4 -C12)
E	TO-14 by GC/MS (Ambient) or (Source **)	L	C11 - C18
F	601 & 602 Compounds	Other	Specify below.

* An additional 22 ml vial of sample is required when requested in combination with another analysis.

** Available upon request.

Collection Date	Collection Time	Number of Containers	"Summa" # if Can. used	Sample Type	Sample Identification	Requested Analyses	(Other)	Remarks
10-4	910	1		SOIL GAS	6043	A		
	915	1			6043	H		
	915	1			6044	A		
	920	1			6044	H		
	917	1			6050	A		
	921	1			6050	H		
	945	1			6047	A		
	950	1			6047	H		
	955	1			6048	A		
	1000	1			6048	H		
	935	1			6049	A		
	940	1			6049	H		

Results to :

Invoice to :

Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :
	CTJ	10/5/00	5P		DM	10/4/00	5:05pm
Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :
						10-5-00	13:00
Relinquished by :	Company :	Date :	Time :	Received by : Fedex	Company : # 822029600160	Date : 10/4/00	Time : 5:20pm

WHITE COPY : Laboratory to return. YELLOW COPY : Laboratory PINK COPY : Submitter

MICROSEEPS, Inc.

220 William Pitt Way, Pittsburgh, PA 15238

Phone: (412) 826-5245 Fax: (412) 826-3433

CHAIN-OF-CUSTODY RECORD

Company Name: PLAYA VISTA

Address: 12555 W JEFFERSON

Proj. Manager: MERSCHAT

Proj. Location: LA CA 90066

Proj. Number:

Phone # : Fax # :

Sampler's signature :

Note: Enter proper letters in Requested Analyses columns below.

Analysis Options Note: If analysis D,E,or K is selected, scratch (option) NOT wanted.

A	C1 -C4	G	Chlorinated HC
* B	Hydrogen & Helium	H	BTEX
* C	Permanent Gases (CH4, CO, CO2, N2, O2)	T	BTEX & C5 - C10
D	Mercury (Soil) or (Air **)	K	TPH (C5 - C10) or (C4 -C12)
E	TO-14 by GC/MS (Ambient) or (Source **)	L	C11 - C18
F	601 & 602 Compounds	Other	Specify below.

* An additional 22 ml vial of sample is required when requested in combination with another analysis.

** Available upon request.

Collection Date	Collection Time	Number of Containers	"Summa" # if Can. used	Sample Type	Sample Identification	Requested Analyses	(Other)	Remarks
2000 OCT 4	340	1		SOILGAS	6066	A		
	345	1			6066	H		
	340	1			6077	A		
	345	1			6077	H		
	400	1			6067	A		
	405	1			6067	H		
	405	1			6068	A		
	410	1			6068	H		
	410	1			6073	A		
	415	1			6073	H		

Results to :

Invoice to :

Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :
	ETI	2000 OCT 4	5P		CDM	10/4/00	5:05pm
Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :
						10-5-00	13:00
Relinquished by :	Company :	Date :	Time :	Received by : Fedex	Company : # 822029600160	Date : 10/4/00	Time : 5:20pm

WHITE COPY : Laboratory to return. YELLOW COPY : Laboratory PINK COPY : Submitter

MICROSEEPS

University of Pittsburgh Applied Research Center
220 William Pitt Way, Pittsburgh, PA 15238
(412) 826-5245 ph (412) 826-3433 fax
http://www.microseeps.com

October 19, 2000

Ms. Michele Zych
Camp Dresser & McKee
18881 Von Karman
Suite 650
Irvine, CA 92612

Dear Ms. Zych:

Attached is the final data listing for the sample(s) we received on October 6, 2000, your project: PLAYA VISTA .

Please give me a call if you have questions or I can be of further assistance. Thank you for using Microseeps.

Sincerely,

Rebecca J. Hans

RJH/lsp

Attachment: CDM97-203770

Microseeps

CDM97-203770

----- CAMP DRESSER & MCKEE -----
----- LOCATION: (PLAYA VISTA) - LOS ANGELES, CA -----

Sample Names	Methane (%V)	Methane (PPMV)	Ethane (PPMV)	Ethylene (PPMV)	Propane (PPMV)	Propylene (PPMV)	Iso-Butane (PPMV)	N-Butane (PPMV)	Lab ID	Date Sampled	Date Received	Date Analyzed	Analyst
8005	*	0.99	0.06	0.04	<0.03	<0.03	<0.03	<0.03	T38 411	10/05/00	10/06/00	10/13/00	BC
8006	*	1.10	0.03	0.02	<0.03	<0.03	<0.03	<0.03	T38 412	10/05/00	10/06/00	10/13/00	BC
8030	*	1.38	0.05	0.05	<0.03	<0.03	<0.03	<0.03	T38 413	10/05/00	10/06/00	10/13/00	BC
8032	*	2.11	0.12	0.08	0.04	0.05	<0.03	<0.03	T38 414	10/05/00	10/06/00	10/13/00	BC
8040	*	1.74	0.10	0.06	0.05	0.04	<0.03	<0.03	T38 415	10/05/00	10/06/00	10/13/00	BC
8041	*	1.92	0.07	0.09	0.03	0.09	<0.03	<0.03	T38 416	10/05/00	10/06/00	10/13/00	BC
8001	*	0.64	0.01	0.02	<0.03	<0.03	<0.03	<0.03	T38 417	10/05/00	10/06/00	10/13/00	BC
8034	*	0.89	0.05	0.03	<0.03	<0.03	<0.03	<0.03	T38 418	10/05/00	10/06/00	10/13/00	BC
8003	*	1.56	0.06	0.03	<0.03	<0.03	<0.03	<0.03	T38 419	10/05/00	10/06/00	10/13/00	BC
8015	*	1.53	0.05	0.02	<0.03	<0.03	<0.03	<0.03	T38 420	10/05/00	10/06/00	10/13/00	BC
8043	*	1.30	0.05	0.04	<0.03	<0.03	<0.03	<0.03	T38 421	10/05/00	10/06/00	10/13/00	BC
8002	*	1.15	0.04	0.02	<0.03	<0.03	<0.03	<0.03	T38 422	10/05/00	10/06/00	10/13/00	BC
8036	*	3.14	0.15	0.10	0.06	0.05	<0.03	<0.03	T38 423	10/05/00	10/06/00	10/13/00	BC
8037	*	2.28	0.09	0.03	0.03	<0.03	<0.03	<0.03	T38 424	10/05/00	10/06/00	10/13/00	BC
8023	*	0.75	0.05	0.02	<0.03	<0.03	<0.03	<0.03	T38 425	10/05/00	10/06/00	10/13/00	BC
8004	*	0.48	<0.01	<0.01	<0.03	<0.03	<0.03	<0.03	T38 426	10/05/00	10/06/00	10/13/00	BC
8012	*	1.89	0.14	0.16	0.05	0.10	<0.03	<0.03	T38 427	10/05/00	10/06/00	10/13/00	BC
8026	*	1.07	0.04	0.04	<0.03	<0.03	<0.03	<0.03	T38 428	10/05/00	10/06/00	10/13/00	BC
8010	*	0.66	0.06	0.04	<0.03	<0.03	<0.03	<0.03	T38 429	10/05/00	10/06/00	10/13/00	BC
8033	*	1.58	0.10	0.05	0.03	<0.03	<0.03	<0.03	T38 430	10/05/00	10/06/00	10/13/00	BC
8042	*	0.71	0.03	0.02	<0.03	<0.03	<0.03	<0.03	T38 431	10/05/00	10/06/00	10/13/00	BC
8009	*	0.84	<0.01	<0.01	<0.03	<0.03	<0.03	<0.03	T38 437	10/05/00	10/06/00	10/16/00	BC
8016	*	0.90	0.02	0.01	<0.03	<0.03	<0.03	<0.03	T38 438	10/05/00	10/06/00	10/16/00	BC
8039	*	0.65	0.04	0.02	<0.03	<0.03	<0.03	<0.03	T38 439	10/05/00	10/06/00	10/16/00	BC
8038	*	0.92	0.02	<0.01	<0.03	<0.03	<0.03	<0.03	T38 440	10/05/00	10/06/00	10/16/00	BC
8035	*	0.82	0.03	0.01	<0.03	<0.03	<0.03	<0.03	T38 441	10/05/00	10/06/00	10/16/00	BC
DETECTION LIMITS	0.02	0.04	0.01	0.01	0.03	0.03	0.03	0.03					

* METHANE RESULT TAKEN FROM ALTERNATE DETECTOR

ANALYST BC

REVIEW

Microseeps

CDM97-203770

***** QUALITY CONTROL *****

----- CAMP DRESSER & MCKEE -----
----- LOCATION: (PLAYA VISTA) - LOS ANGELES, CA -----

CONTINUING CALIBRATION STANDARDS 10/13/00

COMPOUND	FILE ID	TRUE CONC.	MEASURED	% DIFF.
METHANE (FID)	T38 379	30.00	32.28	7.60
ETHANE	T38 379	10.00	10.08	0.80
ETHYLENE	T38 379	10.00	10.06	0.60
PROPANE	T38 379	10.00	10.10	1.00
PROPYLENE	T38 379	10.00	10.17	1.70
ISO-BUTANE	T38 379	10.00	10.48	4.80
N-BUTANE	T38 379	10.00	10.95	9.50

HE IN LOOP 10/13/00

COMPOUND	FILE ID	DET. LIMIT	MEASURED
METHANE (FID)	T38 384	0.04 PPMV	ND
ETHANE	T38 384	0.01 PPMV	ND
ETHYLENE	T38 384	0.01 PPMV	ND
PROPANE	T38 384	0.03 PPMV	ND
PROPYLENE	T38 384	0.03 PPMV	ND
ISO-BUTANE	T38 384	0.03 PPMV	ND
N-BUTANE	T38 384	0.03 PPMV	ND

ANALYST INITIALS

REVIEW

Microseeps

***** QUALITY CONTROL *****

CDM97-203770

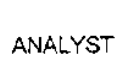
----- CAMP DRESSER & MCKEE -----
----- LOCATION: (PLAYA VISTA) - LOS ANGELES, CA -----

CONTINUING CALIBRATION STANDARDS 10/16/00

COMPOUND	FILE ID	TRUE CONC.	MEASURED	% DIFF.
METHANE (FID)	T38 434	30.00	32.40	8.00
ETHANE	T38 434	10.00	10.13	1.30
ETHYLENE	T38 434	10.00	10.14	1.40
PROPANE	T38 434	10.00	10.16	1.60
PROPYLENE	T38 434	10.00	10.15	1.50
ISO-BUTANE	T38 434	10.00	10.32	3.20
N-BUTANE	T38 434	10.00	10.17	1.70

HE IN LOOP 10/16/00

COMPOUND	FILE ID	DET. LIMIT	MEASURED
METHANE (FID)	T38 436	0.04 PPMV	ND
ETHANE	T38 436	0.01 PPMV	ND
ETHYLENE	T38 436	0.01 PPMV	ND
PROPANE	T38 436	0.03 PPMV	ND
PROPYLENE	T38 436	0.03 PPMV	ND
ISO-BUTANE	T38 436	0.03 PPMV	ND
N-BUTANE	T38 436	0.03 PPMV	ND

ANALYST INITIALS 

REVIEW 

Microseeps

CDM97 -203770

----- CAMP DRESSER & MCKEE -----
----- Location: PLAYA VISTA -----
----- Concentrations in PPMV -----

Sample ID	Benzene	Toluene	Ethyl Benzene	M/P Xylene	Ortho Xylene	Lab ID	Date Sampled	Date Received	Date Analyzed	Analyst
8005	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A54	10/05/00	10/06/00	10/11/00	JLL
8006	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A55	10/05/00	10/06/00	10/11/00	JLL
8030	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A56	10/05/00	10/06/00	10/11/00	JLL
8032	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A57	10/05/00	10/06/00	10/11/00	JLL
8040	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A58	10/05/00	10/06/00	10/11/00	JLL
8041	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A59	10/05/00	10/06/00	10/11/00	JLL
8001	< 0.07	0.11	< 0.07	< 0.07	< 0.07	W100A60	10/05/00	10/06/00	10/11/00	JLL
8034	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A61	10/05/00	10/06/00	10/11/00	JLL
8003	< 0.07	0.10	< 0.07	< 0.07	< 0.07	W100A62	10/05/00	10/06/00	10/11/00	JLL
8015	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A63	10/05/00	10/06/00	10/11/00	JLL
8043	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A64	10/05/00	10/06/00	10/11/00	JLL
8002	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A65	10/05/00	10/06/00	10/11/00	JLL
8036	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A66	10/05/00	10/06/00	10/11/00	JLL
8037	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A69	10/05/00	10/06/00	10/12/00	JLL
8023	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A70	10/05/00	10/06/00	10/12/00	JLL
8004	< 0.07	0.11	< 0.07	< 0.07	< 0.07	W100A71	10/05/00	10/06/00	10/12/00	JLL
8012	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A72	10/05/00	10/06/00	10/12/00	JLL
8026	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A73	10/05/00	10/06/00	10/12/00	JLL
8010	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A74	10/05/00	10/06/00	10/12/00	JLL
8033	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A75	10/05/00	10/06/00	10/12/00	JLL
8042	< 0.07	< 0.07	0.41	< 0.07	< 0.07	W100A76	10/05/00	10/06/00	10/12/00	JLL
8009	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A77	10/05/00	10/06/00	10/12/00	JLL
8016	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A78	10/05/00	10/06/00	10/12/00	JLL
8039	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A79	10/05/00	10/06/00	10/12/00	JLL
8038	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A80	10/05/00	10/06/00	10/12/00	JLL
8035	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A81	10/05/00	10/06/00	10/12/00	JLL
Detection Limits	0.07	0.07	0.07	0.07	0.07					

10/13/00

Analyst JLL

Reviewed

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Quality Control

CDM97 -203770

----- CAMP DRESSER & MCKEE -----
----- Location: PLAYA VISTA -----
----- Concentrations in PPMV -----

Continuing Calibration Standards 10/11/00

Compound	Lab ID	True Conc.	Measured	% Diff.
Benzene	W100A45	1.25	1.31	4.80
Toluene	W100A45	1.06	1.11	4.72
Ethyl Benzene	W100A45	0.92	0.97	5.43
M/P Xylene	W100A45	1.84	1.94	5.43
Ortho Xylene	W100A45	0.92	0.97	5.43

N2 in vial 10/11/00

Compound	Lab ID	Report. Limit (ppmv)	Measured
Benzene	W100A46	0.07	ND
Toluene	W100A46	0.07	ND
Ethyl Benzene	W100A46	0.07	ND
M/P Xylene	W100A46	0.07	ND
Ortho Xylene	W100A46	0.07	ND

Continuing Calibration Standards 10/12/00

Compound	Lab ID	True Conc.	Measured	% Diff.
Benzene	W100A67	1.25	1.30	4.00
Toluene	W100A67	1.06	1.11	4.72
Ethyl Benzene	W100A67	0.92	0.96	4.35
M/P Xylene	W100A67	1.84	1.96	6.52
Ortho Xylene	W100A67	0.92	0.97	5.43

N2 in vial 10/12/00

Compound	Lab ID	Report. Limit (ppmv)	Measured
Benzene	W100A68	0.07	ND
Toluene	W100A68	0.07	ND
Ethyl Benzene	W100A68	0.07	ND
M/P Xylene	W100A68	0.07	ND
Ortho Xylene	W100A68	0.07	ND

Analyst JLL

Reviewed

MICROSEEPS, Inc.

220 William Pitt Way, Pittsburgh, PA 15238

Phone: (412) 826-5245 Fax: (412) 826-3433

CHAIN-OF-CUSTODY RECORD

Company Name: PLATA VISTA

Address: 12555 W JEFFERSON

Proj. Manager: MERSCHAT

Proj. Location: LA-CA 90066

Proj. Number:

Phone # : Fax # :

Sampler's signature:

Note: Enter proper letters in Requested Analyses columns below.

Note: If analysis D,E,or K is selected, scratch (option) NOT wanted.

Analysis Options

* A	C1 -C4	G	Chlorinated HC
* B	Hydrogen & Helium	H	BTEX
* C	Permanent Gases (CH4, CO, CO2, N2, O2)	J	BTEX & C5 - C10
D	Mercury (Soil) or (Air **)	K	TPH (C5 - C10) or (C4 -C12)
E	TO-14 by GC/MS (Ambient) or (Source **)	L	C11 - C18
F	601 & 602 Compounds	Other	Specify below.

* An additional 22 ml vial of sample is required when requested in combination with another analysis.

** Available upon request.

Collection Date	Collection Time	Number of Containers	"Summa" # if Can. used	Sample Type	Sample Identification	Requested Analyses	(Other)	Remarks
10-5	1115	1		SOILGAS	8004	A H		
	1125	1			8004	A H		
	1145	1			8005	A H		
	1150	1			8005	A H		
	203	1			8038	A H		
	208	1			8038	A H		
	155	1			8039	A H		
	200	1			8039	A H		
	700	1			8043	A H		
	705	1			8043	A H		
	223	1			8042	A H		
	228	1			8042	A H		

Results to :

Invoice to :

Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :
	ETI	10-5	4:30P		CDM	10/5/00	4:35pm
Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :
						10-6-00	11
Relinquished by :	Company :	Date :	Time :	Received by : Fedex	Company : 822029600219	Date : 10/5/00	Time : 5:30pm

WHITE COPY : Laboratory to return. YELLOW COPY : Laboratory PINK COPY : Submitter

MICROSEEPS, Inc.

220 William Pitt Way, Pittsburgh, PA 15238
Phone: (412) 826-5245 Fax: (412) 826-3433

CHAIN-OF-CUSTODY RECORD

Company Name: PLAYA VISTA
Address: 12555 W JEFFERSON
Proj. Manager: MERSCHAT
Proj. Location: LA CA 90066
Proj. Number:
Phone # : Fax # :
Sampler's signature :

Analysis Options

Note: Enter proper letters in Requested Analyses columns below.
Note: If analysis D,E,or K is selected, scratch (option) NOT wanted.

* A (circled)	C1 -C4	G	Chlorinated HC
* B	Hydrogen & Helium	H (circled)	BTEX
* C	Permanent Gases (CH4, CO, CO2, N2, O2)	J	BTEX & C5 - C10
D	Mercury (Soil) or (Air **)	K	TPH (C5 - C10) or (C4 -C12)
E	TO-14 by GC/MS (Ambient) or (Source **)	L	C11 - C18
F	601 & 602 Compounds	Other	Specify below.

* An additional 22 ml vial of sample is required when requested in combination with another analysis.
** Available upon request.

Collection Date	Collection Time	Number of Containers	"Summa" # if Can. used	Sample Type	Sample Identification	Requested Analyses					(Other)	Remarks
10-5	1010	1		SOIL GAS	8032	A						
	1015	1			8032	H						
	1018	1			8033	A						
	1022	1			8033	H						
	1025	1			8034	A						
	1030	1			8034	H						
	1100	1			8001	A						
	1105	1			8001	H						
	1105	1			8002	A						
	1109	1			8002	H						
	1135	1			8003	A						
	1140	1			8003	H						

Results to :

Invoice to :

Relinquished by	Company	Date	Time	Received by	Company	Date	Time
[signature]	ETI	10-5 2000	4:30P	[signature]	CDM	10/5/00	4:35pm
				[signature]	—	10-6-00	11:00
				Fedex	822029600219	10/5/00	5:30pm

WHITE COPY : Laboratory to return. YELLOW COPY : Laboratory PINK COPY : Submitter

MICROSEEPS, Inc.

220 William Pitt Way, Pittsburgh, PA 15238

Phone: (412) 826-5245 Fax: (412) 826-3433

403170/CDM 97 ✓

CHAIN-OF-CUSTODY RECORD

Company Name: PLAYA VISTA

Address: 12555 W JEFFERSON

Proj. Manager: MEESCHAT

Proj. Location: LA CA 90066

Proj. Number:

Phone # : Fax # :

Sampler's signature :

Note: Enter proper letters in Requested Analyses columns below.

Note: If analysis D,E,or K is selected, scratch (option) NOT wanted.

Analysis Options

*A	C1 -C4	G	Chlorinated HC
*B	Hydrogen & Helium	H	BTEX
*C	Permanent Gases (CH4, CO, CO2, N2, O2)	J	BTEX & C5 - C10
D	Mercury (Soil) or (Air **)	K	TPH (C5 - C10) or (C4 -C12)
E	TO-14 by GC/MS (Ambient) or (Source **)	L	C11 - C18
F	601 & 602 Compounds	Other	Specify below.

* An additional 22 ml vial of sample is required when requested in combination with another analysis.

** Available upon request.

Collection Date	Collection Time	Number of Containers	"Summa" # if Can. used	Sample Type	Sample Identification	Requested Analyses	(Other)	Remarks
10-5	920	1		soil grs	8009	A		
	925	1			8009	H		
	926	1			8010	A		
	930	1			8010	H		
	933	1			8012	A		
	938	1			8012	H		
	940	1			8006	A		
	945	1			8006	H		
	945	1			8035	A		
	950	1			8035	H		
	946	1			8036	A		
	951	1			8036	H		

Results to :

Invoice to :

Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :
	ETI	10-5	4:30P		CDM	10/5/00	4:35pm
Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :
						10-6-00	11 00
Relinquished by :	Company :	Date :	Time :	Received by : Fedex	Company : #6220 29600219	Date : 10/5/00	Time : 5:30 pm

WHITE COPY : Laboratory to return. YELLOW COPY : Laboratory PINK COPY : Submitter

MICROSEEPS, Inc.

220 William Pitt Way, Pittsburgh, PA 15238

Phone: (412) 826-5245 Fax: (412) 826-3433

CHAIN-OF-CUSTODY RECORD

Company Name: PLAYA VISTA

Address: 12555 W JEFFERSON

Proj. Manager: [illegible]

Proj. Location: LA CA 90066

Proj. Number:

Phone # : Fax # :

Sampler's signature:

Note: Enter proper letters in Requested Analyses columns below.

Note: If analysis D,E,or K is selected, scratch (option) NOT wanted.

Analysis Options

*A	C1 -C4	G	Chlorinated HC
*B	Hydrogen & Helium	H	BTEX
*C	Permanent Gases (CH4, CO, CO2, N2, O2)	J	BTEX & C5 - C10
D	Mercury (Soil) or (Air **)	K	TPH (C5 - C10) or (C4 -C12)
E	TO-14 by GC/MS (Ambient) or (Source **)	L	C11 - C18
F	601 & 602 Compounds	Other	Specify below.

* An additional 22 ml vial of sample is required when requested in combination with another analysis.

** Available upon request.

Collection Date	Collection Time	Number of Containers	"Summa" # if Can. used	Sample Type	Sample Identification	Requested Analyses	(Other)	Remarks
10/5	2220	1		SOIL GAS	8041	A		
	2225	1			8041	H		
	2230	1			8040	A		
	2235	1			8040	H		
	255	1			8015	A		
	300	1			8015	H		
	300	1			8016	A		
	305	1			8016	H		
	253	1			8037	A		
	258	1			8037	H		
	3405	1			8026	A		
	3409	1			8026	H		

Results to :

Invoice to :

Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :
	ETI	2000 10-5	4:30P		CDM	10/5/00	4:35pm
Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :
						10-6-00	11 am
Relinquished by :	Company :	Date :	Time :	Received by : Fedex	Company : 822029600219	Date : 10/5/00	Time : 5:30 pm

WHITE COPY : Laboratory to return. YELLOW COPY : Laboratory PINK COPY : Submitter

Exploration Technologies, Inc.
3698 Westchase
Houston, Texas 77042
(713) 785-0393
FAX: (713) 785-1550

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST FORM

Page of

Lab Batch #

Client: PLAYA VISTA Phone ( )

Address: 12555 W JEFFERSON

Project Name: Project Director:

Project Location: LA CA Project Manager: NORTHUP

Sampler Signature: Project No.:

No. coolers this shipment: Contractor COC #

Carrier: Quote #:

Airbill No. P.O. No.:

SAMPLE CHARACTERIZATION

Field ID	Date	Time	Depth	Soil	Water	Comp	Grab	Container Size	Container Type P, G	Preservative Ice	Preservative Other	Sample Description	No of Containers Total	EPA BTEX	TPH	C1-C4 & C5+	EXPL C1-C4	CO_2	CAPILLARY GC FINGERPRINT	FLUORESCENCE	TOTAL LEAD	TDS	Please Hold	Remarks	LAB ONLY ID #
1	10-5	340										8023	A												1
2		345										8023	H												2
3		345										8030	A												3
4		350										8030	H												4
5																									5
6																									6
7																									7
8																									8
9																									9
10																									10

Turn-around: ASAP / 24 hrs / 48 hrs / Standard

Unl Dies Ker Unknown Waste Oil PIT No: Tank No:

Relinquished by: (Signature)	DATE	TIME	Received by: (Signature)	DATE	TIME
	10/5	4:30		10/5/00	4:35 pm
			Fedex # 8220-2960-0219	10/5/00	5:30pm
			Received For Laboratory by	10/6/00	11:00

Remarks: 203776/ CDM 97

Pink (Contractor), Yellow & White (Lab)

* Pre-scheduling is recommended

MICROSEEPS

University of Pittsburgh Applied Research Center
220 William Pitt Way, Pittsburgh, PA 15238
(412) 826-5245 ph (412) 826-3433 fax
http://www.microseeps.com

October 19, 2000

Ms. Michele Zych
Camp Dresser & McKee
18881 Von Karman
Suite 650
Irvine, CA 92612

Dear Ms. Zych:

Attached is the final data listing for the sample(s) we received on October 3, 2000, your project: PLAYA VISTA .

Please give me a call if you have questions or I can be of further assistance. Thank you for using Microseeps.

Sincerely,

Rebecca J. Hans

RJH/lsp

Attachment: CDM94-203744

Microseeps

CDM94 -203744

----- CAMP DRESSER & MCKEE -----
----- Location: PLAYA VISTA -----
----- Concentrations in PPMV -----

Sample ID	Benzene	Toluene	Ethyl Benzene	M/P Xylene	Ortho Xylene	Lab ID	Date Sampled	Date Received	Date Analyzed	Analyst
6007	< 0.07	0.08	< 0.07	< 0.07	< 0.07	W99A466	10/02/00	10/03/00	10/05/00	JLL
6001	< 0.07	0.10	< 0.07	< 0.07	< 0.07	W99A467	10/02/00	10/03/00	10/05/00	JLL
6008	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W99A468	10/02/00	10/03/00	10/05/00	JLL
6014	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W99A469	10/02/00	10/03/00	10/05/00	JLL
6015	< 0.07	< 0.07	< 0.07	0.34	< 0.07	W99A470	10/02/00	10/03/00	10/05/00	JLL
6002	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W99A471	10/02/00	10/03/00	10/05/00	JLL
6009	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W99A472	10/02/00	10/03/00	10/05/00	JLL
6003	< 0.07	0.09	< 0.07	< 0.07	< 0.07	W99A473	10/02/00	10/03/00	10/05/00	JLL
6016	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W99A474	10/02/00	10/03/00	10/05/00	JLL
6022	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W99A475	10/02/00	10/03/00	10/05/00	JLL
6017	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W99A476	10/02/00	10/03/00	10/05/00	JLL
6027	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W99A477	10/02/00	10/03/00	10/05/00	JLL
6021	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W99A478	10/02/00	10/03/00	10/05/00	JLL
6010	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W99A479	10/02/00	10/03/00	10/05/00	JLL
6028	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W99A480	10/02/00	10/03/00	10/05/00	JLL
Detection Limits	0.07	0.07	0.07	0.07	0.07					

10/6/00

Analyst JLL

Reviewed

Microseeps

Quality Control

CDM94 -203744

----- CAMP DRESSER & MCKEE -----
----- Location: PLAYA VISTA -----
----- Concentrations in PPMV -----

Continuing Calibration Standards 10/05/00

Compound	Lab ID	True Conc.	Measured	% Diff.
Benzene	W99A464	1.25	1.24	1.12
Toluene	W99A464	1.06	1.05	1.32
Ethyl Benzene	W99A464	0.92	0.91	1.52
M/P Xylene	W99A464	1.84	1.85	0.49
Ortho Xylene	W99A464	0.92	0.92	0.43

N2 in vial 10/05/00

Compound	Lab ID	Report. Limit (ppmv)	Measured
Benzene	W99A465	0.07	ND
Toluene	W99A465	0.07	ND
Ethyl Benzene	W99A465	0.07	ND
M/P Xylene	W99A465	0.07	ND
Ortho Xylene	W99A465	0.07	ND

Analyst JLL

Reviewed

Microseeps

CDM94B-203744

----- CAMP DRESSER & MCKEE -----
---- LOCATION: (PLAYA VISTA) - LOS ANGELES, CA -----

Sample Names	Methane (%V)	Methane (PPMV)	Ethane (PPMV)	Ethylene (PPMV)	Propane (PPMV)	Propylene (PPMV)	Iso-Butane (PPMV)	N-Butane (PPMV)	Lab ID	Date Sampled	Date Received	Date Analyzed	Analyst
6007	*	0.99	0.02	0.02	<0.03	<0.03	<0.03	<0.03	T38 299	10/02/00	10/03/00	10/11/00	MM
6001	*	4.42	0.09	0.08	0.04	0.07	<0.03	<0.03	T38 301	10/02/00	10/03/00	10/11/00	MM
6008	*	0.70	0.03	0.02	<0.03	<0.03	<0.03	<0.03	T38 302	10/02/00	10/03/00	10/11/00	MM
6014	*	1.50	0.04	0.02	<0.03	<0.03	<0.03	<0.03	T38 303	10/02/00	10/03/00	10/11/00	MM
6015	*	1.16	0.04	0.03	<0.03	0.04	<0.03	<0.03	T38 304	10/02/00	10/03/00	10/11/00	MM
6002	*	4.04	0.57	0.83	0.23	0.67	0.06	0.12	T38 305	10/02/00	10/03/00	10/11/00	MM
6009	*	1.79	0.08	0.09	0.04	0.07	<0.03	<0.03	T38 306	10/02/00	10/03/00	10/11/00	MM
6003	*	1.13	0.04	0.04	<0.03	0.05	<0.03	<0.03	T38 307	10/02/00	10/03/00	10/11/00	MM
6016	*	1.94	0.06	0.05	0.03	0.05	<0.03	<0.03	T38 308	10/02/00	10/03/00	10/11/00	MM
6022	*	1.44	0.05	0.04	<0.03	0.05	<0.03	<0.03	T38 309	10/02/00	10/03/00	10/11/00	MM
6017	*	1.16	0.04	0.03	<0.03	<0.03	<0.03	<0.03	T38 310	10/02/00	10/03/00	10/11/00	MM
6027	*	1.30	0.03	0.02	<0.03	<0.03	<0.03	<0.03	T38 311	10/02/00	10/03/00	10/11/00	MM
6021	*	1.48	0.02	0.02	<0.03	<0.03	<0.03	<0.03	T38 312	10/02/00	10/03/00	10/11/00	MM
6010	*	2.33	0.11	0.09	0.06	0.06	<0.03	<0.03	T38 313	10/02/00	10/03/00	10/11/00	MM
6028	*	1.11	0.03	0.02	<0.03	<0.03	<0.03	<0.03	T38 314	10/02/00	10/03/00	10/11/00	MM
DETECTION LIMITS	0.02	0.04	0.01	0.01	0.03	0.03	0.03	0.03					

* METHANE RESULT TAKEN FROM ALTERNATE DETECTOR

ANALYST

REVIEW

Microseeps

CDM94B-203744

***** QUALITY CONTROL *****

---- CAMP DRESSER & MCKEE ----
----- LOCATION: (PLAYA VISTA) - LOS ANGELES, CA -----

CONTINUING CALIBRATION STANDARDS 10/11/00

COMPOUND	FILE ID	TRUE CONC.	MEASURED	% DIFF.
METHANE (FID)	T38 270	30.00	32.19	7.30
ETHANE	T38 270	10.00	10.02	0.20
ETHYLENE	T38 270	10.00	10.03	0.30
PROPANE	T38 270	10.00	10.05	0.50
PROPYLENE	T38 270	10.00	10.07	0.70
ISO-BUTANE	T38 270	10.00	10.35	3.50
N-BUTANE	T38 270	10.00	10.49	4.90

HE IN LOOP 10/11/00

COMPOUND	FILE ID	DET. LIMIT	MEASURED
METHANE (FID)	T38 272	0.04 PPMV	ND
ETHANE	T38 272	0.01 PPMV	ND
ETHYLENE	T38 272	0.01 PPMV	ND
PROPANE	T38 272	0.03 PPMV	ND
PROPYLENE	T38 272	0.03 PPMV	ND
ISO-BUTANE	T38 272	0.03 PPMV	ND
N-BUTANE	T38 272	0.03 PPMV	ND

ANALYST INITIALS mk.

REVIEW BC

MICROSEEPS, Inc.

220 William Pitt Way, Pittsburgh, PA 15238

Phone: (412) 826-5245 Fax: (412) 826-3433

CHAIN-OF-CUSTODY RECORD

Company Name: PLAYA VISTA

Address: 12555 W JEFFERSON

Proj. Manager: MESCHAT

Proj. Location: LA CA 90066

Proj. Number:

Phone # : Fax # :

Sampler's signature :

Note: Enter proper letters in Requested Analyses columns below.

Note: If analysis D,E,or K is selected, scratch (option) NOT wanted.

Analysis Options

* A	C1 -C4	G	Chlorinated HC
* B	Hydrogen & Helium	H	BTEX
* C	Permanent Gases (CH4, CO, CO2, N2, O2)	I	BTEX & C5 - C10
D	Mercury (Soil) or (Air **)	K	TPH (C5 - C10) or (C4 -C12)
E	TO-14 by GC/MS (Ambient) or (Source **)	L	C11 - C18
F	601 & 602 Compounds	Other	Specify below.

* An additional 22 ml vial of sample is required when requested in combination with another analysis.

** Available upon request.

Collection Date	Collection Time	Number of Containers	"Summa" # if Can. used	Sample Type	Sample Identification	Requested Analyses					(Other)	Remarks
10-2-00	12:18	1		SOIL GAS	6007	A						
	11	1			6007	H						
	12:25	1			6001	A						
	11	1			6001	H						
	12:35	1			6008	A						
	11	1			6008	H						
	1:05	1			6014	A						
	11	1			6014	H						
	1:20	1			6015	A						
	1:20	1			6015	H						
	1:45	1			6002	A						
	1:45	1			6002	H						

Results to :

Invoice to :

Relinquished by :	Company : EJ	Date : 10-2-00	Time : 4:10 P	Received by :	Company : CDM	Date : 10/2/00	Time : 4:10
Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date : 10-3-00	Time : 1240
Relinquished by :	Company : CDM	Date : 10/2/00	Time : 5:00pm	Received by : Fed Ex	Company :	Date :	Time :

WHITE COPY : Laboratory to return. YELLOW COPY : Laboratory PINK COPY : Submitter

203744 / COM 94

MICROSEEPS, Inc.

220 William Pitt Way, Pittsburgh, PA 15238

Phone: (412) 826-5245 Fax: (412) 826-3433

CHAIN-OF-CUSTODY RECORD

Company Name: PLAYA VISTA

Address: 12555 W JEFFERSON

Proj. Manager: MERSCHAT

Proj. Location: LA CA

Proj. Number:

Phone # : Fax # :

Sampler's signature :

Note: Enter proper letters in Requested Analyses columns below.

Note: If analysis D,E,or K is selected, scratch (option) NOT wanted.

Analysis Options

*A	C1 -C4	G	Chlorinated HC
*B	Hydrogen & Helium	H	BTEX
*C	Permanent Gases (CH4, CO, CO2, N2, O2)	J	BTEX & C5 - C10
D	Mercury (Soil) or (Air **)	K	TPH (C5 - C10) or (C4 -C12)
E	TO-14 by GC/MS (Ambient) or (Source **)	L	C11 - C18
F	601 & 602 Compounds	Other	Specify below.

* An additional 22 ml vial of sample is required when requested in combination with another analysis.

** Available upon request.

Collection Date	Collection Time	Number of Containers	"Summa" # if Can. used	Sample Type	Sample Identification	Requested Analyses (Other)	Remarks
OCT 2	2:55	1		SOLGAS	6017	A	
"	"	1		"	6017	H	
"	3:15	1		"	6027	A	
"	"	1		"	6027	H	
"	3:30	1		"	6028	A	
"	"	1		"	6028	H	

Results to :

Invoice to :

Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :
	ETI	OCT-2-00	4:10P		COM	10/2/00	4 11
Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :
						10-3-00	1240
Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :
	COM	10/2/00	5:00	Fed Ex			

WHITE COPY : Laboratory to return. YELLOW COPY : Laboratory PINK COPY : Submitter

203744 / COM 94

MICROSEEPS, Inc.

220 William Pitt Way, Pittsburgh, PA 15238

Phone: (412) 826-5245 Fax: (412) 826-3433

CHAIN-OF-CUSTODY RECORD

Company Name: PLAYA VISTA

Address: 12555 W JEFFERSON

Proj. Manager: MERSCHAT

Proj. Location: LA CA 90066

Proj. Number:

Phone # : Fax # :

Sampler's signature :

Note: Enter proper letters in Requested Analyses columns below.

Note: If analysis D,E,or K is selected, scratch (option) NOT wanted.

Analysis Options

* A	C1 -C4	G	Chlorinated HC
* B	Hydrogen & Helium	H	BTEX
* C	Permanent Gases (CH4, CO, CO2, N2, O2)	J	BTEX & C5 - C10
D	Mercury (Soil) or (Air **)	K	TPH (C5 - C10) or (C4 -C12)
E	TO-14 by GC/MS (Ambient) or (Source **)	L	C11 - C18
F	601 & 602 Compounds	Other	Specify below.

* An additional 22 ml vial of sample is required when requested in combination with another analysis.

** Available upon request.

Collection Date	Collection Time	Number of Containers	"Summa" # if Can. used	Sample Type	Sample Identification	Requested Analyses					(Other)	Remarks
OCT 2	1:50	1		Soil Gas	6009	A						
	"	1			6009	H						
	2:05	1			6003	A						
	"	1			6003	H						
	2:25	1			6016	A						
	"	1			6016	H						
	2:35	1			6022	A						
	"	1			6022	H						
	2:45	1			6021	A						
	"	1			6021	H						
	2:55	1			6010	A						
	"	1			6010	H						

Results to :

Invoice to :

Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :
	ETI	OCT-2-00	4:10P		COM	10/2/00	4:40P
Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :
						10-3-00	12 40
Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :
	COM	10/2/00	5:00	Fed Ex			

WHITE COPY : Laboratory to return. YELLOW COPY : Laboratory PINK COPY : Submitter

MICROSEEPS

University of Pittsburgh Applied Research Center
220 William Pitt Way, Pittsburgh, PA 15238
(412) 826-5245
FAX (412) 826-3433

November 2, 2000

Ms. Michele Zych
Camp Dresser & McKee
18881 Von Karman
Suite 650
Irvine, CA 92612

Dear Ms. Zych:

Attached is the final data listing for the sample(s) we received on October 7 and 9, 2000, your project: PLAYA VISTA.

Please give me a call if you have questions or I can be of further assistance. Thank you for using Microseeps.

Sincerely,

Rebecca J. Hans

RJH/lsp

Attachment: CDM99-203803

Microseeps

CDM99 -203803

----- CAMP DRESSER & MCKEE -----
—— Location: PLAYA VISTA -----
----- Concentrations in PPMV -----

Sample ID	Benzene	Toluene	Ethyl Benzene	M/P Xylene	Ortho Xylene	Lab ID	Date Sampled	Date Received	Date Analyzed	Analyst
7076	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A114	10/07/00	10/10/00	10/16/00	JLL
7071	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A115	10/07/00	10/10/00	10/16/00	JLL
7068	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A116	10/07/00	10/10/00	10/16/00	JLL
7065	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A117	10/07/00	10/10/00	10/16/00	JLL
7062	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A118	10/07/00	10/10/00	10/16/00	JLL
7059	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A119	10/07/00	10/10/00	10/16/00	JLL
7058	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A120	10/07/00	10/10/00	10/16/00	JLL
7057	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A121	10/07/00	10/10/00	10/16/00	JLL
7038	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A122	10/09/00	10/10/00	10/16/00	JLL
7041	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A123	10/09/00	10/10/00	10/16/00	JLL
7075	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A124	10/07/00	10/10/00	10/16/00	JLL
7072	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A125	10/07/00	10/10/00	10/16/00	JLL
7043	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A126	10/09/00	10/10/00	10/16/00	JLL
7054	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A127	10/07/00	10/10/00	10/16/00	JLL
7042	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A128	10/09/00	10/10/00	10/16/00	JLL
7047	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A129	10/09/00	10/10/00	10/16/00	JLL
7053	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A130	10/07/00	10/10/00	10/16/00	JLL
7035	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A131	10/07/00	10/10/00	10/16/00	JLL
7031	< 0.07	0.17	< 0.07	< 0.07	< 0.07	W100A132	10/07/00	10/10/00	10/16/00	JLL
9078	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A133	10/07/00	10/10/00	10/16/00	JLL
7046	< 0.07	0.30	< 0.07	< 0.07	< 0.07	W100A136	10/09/00	10/10/00	10/17/00	JLL
7050	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A137	10/09/00	10/10/00	10/17/00	JLL
7049	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A138	10/09/00	10/10/00	10/17/00	JLL
7048	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A139	10/09/00	10/10/00	10/17/00	JLL
7045	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A140	10/09/00	10/10/00	10/17/00	JLL
7051	< 0.07	0.17	< 0.07	< 0.07	< 0.07	W100A141	10/09/00	10/10/00	10/17/00	JLL
9077	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A142	10/09/00	10/10/00	10/17/00	JLL
7055	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A143	10/07/00	10/10/00	10/17/00	JLL
7052	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A144	10/09/00	10/10/00	10/17/00	JLL
Detection Limits	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07					

10/18/00

Analyst JLL

Reviewed

Microseeps

Quality Control

CDM99 -203803

----- CAMP DRESSER & MCKEE -----
----- Location: PLAYA VISTA -----
----- Concentrations in PPMV -----

Continuing Calibration Standards 10/16/00

Compound	Lab ID	True Conc.	Measured	% Diff.
Benzene	W100A112	1.25	1.21	3.20
Toluene	W100A112	1.06	1.06	0.00
Ethyl Benzene	W100A112	0.92	0.92	0.00
M/P Xylene	W100A112	1.84	1.85	0.54
Ortho Xylene	W100A112	0.92	1.01	9.78

N2 in vial 10/16/00

Compound	Lab ID	Report. Limit (ppmv)	Measured
Benzene	W100A113	0.07	ND
Toluene	W100A113	0.07	ND
Ethyl Benzene	W100A113	0.07	ND
M/P Xylene	W100A113	0.07	ND
Ortho Xylene	W100A113	0.07	ND

Continuing Calibration Standards 10/17/00

Compound	Lab ID	True Conc.	Measured	% Diff.
Benzene	W100A134	1.25	1.32	5.60
Toluene	W100A134	1.06	1.08	1.89
Ethyl Benzene	W100A134	0.92	0.94	2.17
M/P Xylene	W100A134	1.84	1.90	3.26
Ortho Xylene	W100A134	0.92	0.94	2.17

N2 in vial 10/17/00

Compound	Lab ID	Report. Limit (ppmv)	Measured
Benzene	W100A135	0.07	ND
Toluene	W100A135	0.07	ND
Ethyl Benzene	W100A135	0.07	ND
M/P Xylene	W100A135	0.07	ND
Ortho Xylene	W100A135	0.07	ND

Analyst JL

Reviewed

Microseeps

----- CAMP DRESSER & MCKEE -----

CDM99-203803 ----- LOCATION: (PLAYA VISTA) - LOS ANGELES, CA -----

Sample Names	Methane (%V)	Methane (PPMV)	Lab ID	Date Sampled	Date Received	Date Analyzed	Analyst
7076	*	1.51	T39 323	10/07/00	10/10/00	10/31/00	BC
7071	*	2.13	T39 324	10/07/00	10/10/00	10/31/00	BC
7068	*	1.92	T39 325	10/07/00	10/10/00	10/31/00	BC
7065	*	1.75	T39 326	10/07/00	10/10/00	10/31/00	BC
7062	*	1.87	T39 327	10/07/00	10/10/00	10/31/00	BC
7059	*	1.71	T39 328	10/07/00	10/10/00	10/31/00	BC
7058	*	6.97	T39 329	10/07/00	10/10/00	10/31/00	BC
7057	*	1.72	T39 330	10/07/00	10/10/00	10/31/00	BC
7038	*	2.22	T39 331	10/09/00	10/10/00	10/31/00	BC
7041	*	2.32	T39 332	10/09/00	10/10/00	10/31/00	BC
7075	*	2.34	T39 333	10/07/00	10/10/00	10/31/00	BC
7072	*	1.11	T39 334	10/07/00	10/10/00	10/31/00	BC
7043	*	1.87	T39 335	10/09/00	10/10/00	10/31/00	BC
7054	*	1.21	T39 336	10/07/00	10/10/00	10/31/00	BC
7042	*	2.51	T39 337	10/09/00	10/10/00	10/31/00	BC
7047	*	3.52	T39 338	10/09/00	10/10/00	10/31/00	BC
7053	*	1.38	T39 339	10/07/00	10/10/00	10/31/00	BC
7035	*	3.11	T39 340	10/07/00	10/10/00	10/31/00	BC
7031	*	0.79	T39 341	10/07/00	10/10/00	10/31/00	BC
9078	*	1.26	T39 342	10/07/00	10/10/00	10/31/00	BC
7046	*	2.82	T39 343	10/09/00	10/10/00	10/31/00	BC
7050	*	0.91	T39 344	10/09/00	10/10/00	10/31/00	BC
7049	*	2.93	T39 345	10/09/00	10/10/00	10/31/00	BC
7048	*	3.09	T39 346	10/09/00	10/10/00	10/31/00	BC
7045	*	5.39	T39 302	10/09/00	10/10/00	10/30/00	BC
7051	*	2.36	T39 347	10/09/00	10/10/00	10/31/00	BC
9077	*	1.55	T39 348	10/09/00	10/10/00	10/31/00	BC
7055	*	2.51	T39 349	10/07/00	10/10/00	10/31/00	BC
7052	*	2.28	T39 350	10/09/00	10/10/00	10/31/00	BC
DETECTION LIMITS	0.02	0.04					

* METHANE RESULT TAKEN FROM ALTERNATE DETECTOR

ANALYST BC

REVIEW

Microseeps

CDM99-203803

***** QUALITY CONTROL *****

----- CAMP DRESSER & MCKEE -----
----- LOCATION: (PLAYA VISTA) - LOS ANGELES, CA -----

CONTINUING CALIBRATION STANDARDS 10/30/00

COMPOUND	FILE ID	TRUE CONC.	MEASURED	% DIFF.
METHANE (FID)	T39 278	30.00	33.14	10.5

HE IN LOOP 10/30/00

COMPOUND	FILE ID	DET. LIMIT	MEASURED
METHANE (FID)	T39 280	0.04 PPMV	ND

ANALYST INITIALS

REVIEW

Microseeps

CDM99-203803

***** QUALITY CONTROL *****

----- CAMP DRESSER & MCKEE -----
----- LOCATION: (PLAYA VISTA) - LOS ANGELES, CA -----

CONTINUING CALIBRATION STANDARDS 10/31/00

COMPOUND	FILE ID	TRUE CONC.	MEASURED	% DIFF.
METHANE (FID)	T39 320	30.00	32.35	7.83

HE IN LOOP 10/31/00

COMPOUND	FILE ID	DET. LIMIT	MEASURED
METHANE (FID)	T39 322	0.04 PPMV	ND

ANALYST INITIALS

REVIEW

Microseeps

CDM99-203803

----- Camp Dresser McKee -----
----- Project: Playavista -----
----- Concentrations in PPMV -----

Sample ID	Methane	Ethane	Ethylene	Propane	Propylene	I-Butane	N-Butane	Lab ID	Date Sampled	Date Received	Date Analyzed	Analyst
7076	12.53	0.04	0.03	<0.03	<0.03	<0.03	<0.03	C22 113	10/07/00	10/10/00	10/18/00	MAM
7071	14.02	0.04	0.01	<0.03	<0.03	<0.03	<0.03	C22 114	10/07/00	10/10/00	10/18/00	MAM
7068	12.36	0.03	0.02	<0.03	<0.03	<0.03	<0.03	C22 115	10/07/00	10/10/00	10/18/00	MAM
7065	12.19	0.03	0.02	<0.03	<0.03	<0.03	<0.03	C22 116	10/07/00	10/10/00	10/18/00	MAM
7062	12.84	0.08	0.04	<0.03	0.03	<0.03	<0.03	C22 117	10/07/00	10/10/00	10/18/00	MAM
7059	9.38	0.05	0.04	<0.03	<0.03	<0.03	<0.03	C22 118	10/07/00	10/10/00	10/18/00	MAM
7058	19.04	2.14	0.14	1.70	0.71	0.14	0.71	C22 119	10/07/00	10/10/00	10/18/00	MAM
7057	13.05	0.03	0.01	<0.03	<0.03	<0.03	<0.03	C22 120	10/07/00	10/10/00	10/18/00	MAM
7038	15.40	<0.01	<0.01	<0.03	<0.03	<0.03	<0.03	C22 121	10/09/00	10/10/00	10/18/00	MAM
7041	14.23	0.03	0.01	<0.03	<0.03	<0.03	<0.03	C22 122	10/09/00	10/10/00	10/18/00	MAM
7075	13.47	0.02	0.01	<0.03	<0.03	<0.03	<0.03	C22 123	10/07/00	10/10/00	10/18/00	MAM
7072	12.48	0.07	0.03	<0.03	<0.03	<0.03	<0.03	C22 124	10/07/00	10/10/00	10/18/00	MAM
7043	14.80	0.02	0.01	<0.03	<0.03	<0.03	<0.03	C22 125	10/09/00	10/10/00	10/18/00	MAM
7054	11.52	<0.01	<0.01	<0.03	<0.03	<0.03	<0.03	C22 126	10/07/00	10/10/00	10/18/00	MAM
7042	16.54	0.05	0.01	<0.03	<0.03	<0.03	<0.03	C22 127	10/09/00	10/10/00	10/18/00	MAM
7047	14.86	0.07	<0.01	0.04	<0.03	<0.03	<0.03	C22 128	10/09/00	10/10/00	10/18/00	MAM
7053	14.34	0.02	0.01	<0.03	<0.03	<0.03	<0.03	C22 129	10/07/00	10/10/00	10/18/00	MAM
7035	11.83	0.09	0.07	0.04	0.05	<0.03	<0.03	C22 130	10/07/00	10/10/00	10/18/00	MAM
7031	12.37	0.03	0.01	<0.03	<0.03	<0.03	<0.03	C22 131	10/07/00	10/10/00	10/18/00	MAM
9078	11.72	0.01	0.01	<0.03	<0.03	<0.03	<0.03	C22 132	10/07/00	10/10/00	10/18/00	MAM
7046	15.64	0.03	0.02	<0.03	<0.03	<0.03	<0.03	C22 133	10/09/00	10/10/00	10/18/00	MAM
7050	13.38	0.02	<0.01	<0.03	<0.03	<0.03	<0.03	C22 134	10/09/00	10/10/00	10/18/00	MAM
7049	14.11	0.18	0.03	0.06	<0.03	<0.03	<0.03	C22 135	10/09/00	10/10/00	10/18/00	MAM
7048	14.17	0.09	0.02	<0.03	<0.03	<0.03	<0.03	C22 136	10/09/00	10/10/00	10/18/00	MAM
7045	11.70	0.05	0.03	<0.03	<0.03	<0.03	<0.03	C22 137	10/09/00	10/10/00	10/18/00	MAM
7051	13.11	0.04	0.02	<0.03	<0.03	<0.03	<0.03	C22 138	10/09/00	10/10/00	10/18/00	MAM
9077	11.49	0.07	0.03	<0.03	<0.03	<0.03	<0.03	C22 139	10/09/00	10/10/00	10/18/00	MAM
7055	13.20	0.04	0.01	<0.03	<0.03	<0.03	<0.03	C22 140	10/07/00	10/10/00	10/18/00	MAM
7052	14.02	0.08	<0.01	0.03	<0.03	<0.03	<0.03	C22 141	10/09/00	10/10/00	10/18/00	MAM
Detection Limits	0.04	0.01	0.01	0.03	0.03	0.03	0.03					

Note: Methane results affected by oxygen interference. Reported concentrations of methane are higher due too this interference. Laboratory will reanalyze samples for methane at earliest convienence.

10/24/00

Analyst

Reviewed

Microseeps

***** Quality Control *****

CDM99-203803

----- Camp Dresser McKee -----
----- Project: Playavista -----
----- Concentrations in PPMV -----

Continuing Calibration Standards 10/18/00

Compound	Lab ID	True Conc.	Measured	% Diff.
Methane	C22 111	30.00	28.35	5.50
Ethane	C22 111	10.00	9.17	8.30
Ethylene	C22 111	10.00	9.33	6.70
Propane	C22 111	10.00	9.19	8.10
Propylene	C22 111	10.00	9.34	6.60
I-Butane	C22 111	10.00	9.20	8.00
N-Butane	C22 111	10.00	9.42	5.80

He in Loop 10/18/00

Compound	Lab ID	Report. Limit (ppmv)	Measured
Methane	C22 112	0.04	ND
Ethane	C22 112	0.01	ND
Ethylene	C22 112	0.01	ND
Propane	C22 112	0.03	ND
Propylene	C22 112	0.03	ND
I-Butane	C22 112	0.03	ND
N-Butane	C22 112	0.03	ND

Analyst _____ Reviewed BSM

MICROSEEPS, Inc.

220 William Pitt Way, Pittsburgh, PA 15238
Phone: (412) 826-5245 Fax: (412) 826-3433

CHAIN-OF-CUSTODY RECORD

Company Name: PLAYA VISTA
Address: 12555 W JEFFERSON
Proj. Manager: MERSCHAT
Proj. Location: LA CA 90066
Proj. Number:
Phone # : Fax # :
Sampler's signature:

Note: Enter proper letters in Requested Analyses columns below.
Note: If analysis D,E,or K is selected, scratch (option) NOT wanted.

Analysis Options

* A	C1 -C4	G	Chlorinated HC
* B	Hydrogen & Helium	H	BTEX
* C	Permanent Gases (CH4, CO, CO2, N2, O2)	I	BTEX & C5 - C10
D	Mercury (Soil) or (Air **)	K	TPH (C5 - C10) or (C4 -C12)
E	TO-14 by GC/MS (Ambient) or (Source **)	L	C11 - C18
F	601 & 602 Compounds	Other	Specify below.

* An additional 22 ml vial of sample is required when requested in combination with another analysis.
** Available upon request.

Collection Date	Collection Time	Number of Containers	"Summa" # if Can. used	Sample Type (SOIL GAS)	Sample Identification	Requested Analyses	(Other)	Remarks
10-7	905	1			7072	A H		
	910	1			7072			
	910	1			7075	A H		
	915	1			7075			
	915	1			7076	A H		
	920	1			7076			
	940	1			7065	A H		
	945	1			7065			
	950	1			7068	A H		
	955	1			7068			
	955	1			7071	A H		
	1000	1			7071			

Results to :

Invoice to :

Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :
	ETS	10-7-00	4P		CDM	10/7/00	4:05pm
Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :
Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :

WHITE COPY : Laboratory to return. YELLOW COPY : Laboratory PINK COPY : Submitter

MICROSEEPS, Inc.

220 William Pitt Way, Pittsburgh, PA 15238

Phone: (412) 826-5245 Fax: (412) 826-3433

CHAIN-OF-CUSTODY RECORD

Company Name: PLAYA VISTA
Address: 12555 W JEFFERSON
Proj. Manager: NERSAHAT
Proj. Location: LA CA 90066
Proj. Number:
Phone # : Fax # :

Sampler's signature:

Note: Enter proper letters in Requested Analyses columns below.

Analysis Options Note: If analysis D,E,or K is selected, scratch (option) NOT wanted.

* A	C1 -C4	G	Chlorinated HC
* B	Hydrogen & Helium	H	BTEX
* C	Permanent Gases (CH4, CO, CO2, N2, O2)	J	BTEX & C5 - C10
D	Mercury (Soil) or (Air **)	K	TPH (C5 - C10) or (C4 -C12)
E	TO-14 by GC/MS (Ambient) or (Source **)	L	C11 - C18
F	601 & 602 Compounds	Other	Specify below.

* An additional 22 ml vial of sample is required when requested in combination with another analysis.

** Available upon request.

Collection Date	Collection Time	Number of Containers	"Summa" # if Can. used	Sample Type (SOILGAS)	Sample Identification	Requested Analyses (Other)	Remarks
10-7	1015	1			7062	A	
	1020	1			7062	H	
	1025	1			7059	A	
	1030	1			7059	H	
	1030	1			7058	A	
	1035	1			7058	H	
	1100	1			7031	A	
	1105	1			7031	H	
	1110	1			7035	A	
	1115	1			7035	H	
	115	1			9078	A	
	120	1			9078	H	

Results to :

Invoice to :

	Company :	Date :	Time :	Received by :	Company :	Date :	Time :
Relinquished by :	EFJ	10/7	4P		CDM	10/7/00	4:05pm
Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :
Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :

WHITE COPY : Laboratory to return. YELLOW COPY : Laboratory PINK COPY : Submitter

MICROSEEPS, Inc.

220 William Pitt Way, Pittsburgh, PA 15238

Phone: (412) 826-5245 Fax: (412) 826-3433

CHAIN-OF-CUSTODY RECORD

3 of 3

Company Name: PLAYA VISTA

Address: 12555 W JEFFERSON

Proj. Manager: MERSCHAT

Proj. Location: LA CA 90066

Proj. Number:

Phone # : Fax # :

Sampler's signature:

Note: Enter proper letters in Requested Analyses columns below.

Note: If analysis D,E,or K is selected, scratch (option) NOT wanted.

Analysis Options

* A	C1 -C4	G	Chlorinated HC
* B	Hydrogen & Helium	H	BTEX
* C	Permanent Gases (CH4, CO, CO2, N2, O2)	J	BTEX & C5 - C10
D	Mercury (Soil) or (Air **)	K	TPH (C5 - C10) or (C4 -C12)
E	TO-14 by GC/MS (Ambient) or (Source **)	L	C11 - C18
F	601 & 602 Compounds	Other	Specify below.

* An additional 22 ml vial of sample is required when requested in combination with another analysis.

** Available upon request.

Collection Date	Collection Time	Number of Containers	"Summa" # if Can. used	Sample Type	Sample Identification	Requested Analyses (Other)	Remarks
10-7	125	1		SOIL GAS	7054	A	
	130	1			7054	H	
	130	1			7053	A	
	135	1			7053	H	
	230	1			7055	A	
	240	1			7055	H	
	240	1			7056	A	
	250	1			7056	H	
	250	1			7057	A	
	300	1			7057	H	

Results to :

Invoice to :

Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :
	GTS	10-7	4P		CDM	10/7/00	4:05pm
Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :
Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :

WHITE COPY : Laboratory to return. YELLOW COPY : Laboratory PINK COPY : Submitter

CVM44-203805

1 of 3

MICROSEEPS, Inc.

220 William Pitt Way, Pittsburgh, PA 15238

Phone: (412) 826-5245 Fax: (412) 826-3433

CHAIN-OF-CUSTODY RECORD

Company Name: PLAYA VISTA

Address: 12555 W JEFFERSON

Proj. Manager: MERSCHAT

Proj. Location: LA CA

Proj. Number:

Phone # : Fax # :

Sampler's signature:

Note: Enter proper letters in Requested Analyses columns below.

Note: If analysis D,E,or K is selected, scratch (option) NOT wanted.

Analysis Options

* A	C1 -C4	G	Chlorinated HC
* B	Hydrogen & Helium	H	BTEX
* C	Permanent Gases (CH4, CO, CO2, N2, O2)	J	BTEX & C5 - C10
D	Mercury (Soil) or (Air **)	K	TPH (C5 - C10) or (C4 -C12)
E	TO-14 by GC/MS (Ambient) or (Source **)	L	C11 - C18
F	601 & 602 Compounds	Other	Specify below.

* An additional 22 ml vial of sample is required when requested in combination with another analysis.

** Available upon request.

Collection Date	Collection Time	Number of Containers	"Summa" # if Can. used	Sample Type	Sample Identification	Requested Analyses	(Other)	Remarks
2000 10/9	9:20	1		SOILGAS	~~900~~ 9077 ✓	A		
	925	1			9077 ✓	H		
	935	1			7051 ✓	A		
	940	1			7051 ✓	H		
	950	1			7052 ✓	A		
	1000	1			7052 ✓	H		
	1045	1			7048 ✓	A		
	1050	1			7048 ✓	H		
	1050	1			7049 ✓	A		
	1055	1			7049 ✓	H		
V	1055	1			7050 ✓	A		
	1100	1			7050 ✓	H		

Results to :

Invoice to :

Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :
	ETI	10/9	4:30P		COM	10-90	5.00
Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :
				By	MicroSeeps	10-10-00	1006
Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :
			5:3x	Fed Ex		10-9	5:30

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CVM74-CV5803

2053

MICROSEEPS, Inc.

220 William Pitt Way, Pittsburgh, PA 15238

Phone: (412) 826-5245 Fax: (412) 826-3433

CHAIN-OF-CUSTODY RECORD

Company Name: RAMA VISTA
Address: 12555 W JEFFERSON
Proj. Manager: WERSCHAFT
Proj. Location: LA CA
Proj. Number:
Phone # : Fax # :
Sampler's signature:

Note: Enter proper letters in Requested Analyses columns below.

Note: If analysis D,E,or K is selected, scratch (option) NOT wanted.

Analysis Options

* A	C1 -C4	G	Chlorinated HC
* B	Hydrogen & Helium	H	BTEX
* C	Permanent Gases (CH4, CO, CO2, N2, O2)	J	BTEX & C5 - C10
D	Mercury (Soil) or (Air **)	K	TPH (C5 - C10) or (C4 -C12)
E	TO-14 by GC/MS (Ambient) or (Source **)	L	C11 - C18
F	601 & 602 Compounds	Other	Specify below.

* An additional 22 ml vial of sample is required when requested in combination with another analysis.

** Available upon request.

Collection Date	Collection Time	Number of Containers	"Summa" # if Can. used	Sample Type	Sample Identification	Requested Analyses	(Other)	Remarks
10-9	1135	1		SOIL GAS	7044	A		
	1140	1			7044	H		
	1150	1			7045	A		
	1155	1			7045	H		
	NOON	1			7046	A		
	1210	1			7046	H		
	1215	1			7047	A		
	1220	1			7047	H		
	150	1			7042	A		
	155	1			7042	H		
	200	1			7043	A		
	203	1			7043	H		

Results to :

Invoice to :

	Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :
1		ETI	10-9	4:30P		COM	10-9	5:00
2	Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :
						MicroSeeps	10-10-00	1000
3	Relinquished by :	Company :	Date :	Time : 5:30	Received by :	Company : Fed Ex	Date :	Time : 5:30

WHITE COPY : Laboratory to return. YELLOW COPY : Laboratory PINK COPY : Submitter

CDM99-005005

3 of 3

MICROSEEPS, Inc.

220 William Pitt Way, Pittsburgh, PA 15238

Phone: (412) 826-5245 Fax: (412) 826-3433

CHAIN-OF-CUSTODY RECORD

Company Name: PLAYA VISTA

Address: 12555 W. JEFFERSON

Proj. Manager: MERSHATI

Proj. Location: LA CA

Proj. Number:

Phone # : Fax # :

Sampler's signature:

Note: Enter proper letters in Requested Analyses columns below.

Note: If analysis D,E,or K is selected, scratch (option) NOT wanted.

Analysis Options

*A	C1 -C4	G	Chlorinated HC
*B	Hydrogen & Helium	H	BTEX
*C	Permanent Gases (CH4, CO, CO2, N2, O2)	J	BTEX & C5 - C10
D	Mercury (Soil) or (Air **)	K	TPH (C5 - C10) or (C4 -C12)
E	TO-14 by GC/MS (Ambient) or (Source **)	L	C11 - C18
F	601 & 602 Compounds	Other	Specify below.

* An additional 22 ml vial of sample is required when requested in combination with another analysis.

** Available upon request.

Collection Date	Collection Time	Number of Containers	"Summa" # if Can. used	Sample Soil/GW/S Type	Sample Identification	Requested Analyses					(Other)	Remarks
10/9	230	1			7038 ✓	A						
	235	1			7038 ✓	H						
	245	1			7039	A						
	250	1			7039	H						
	255	1			7040	A						
	300	1			7040	H						
	310	1			7041 ✓	A						
	315	1			7041 ✓	H						

Results to :

Invoice to :

Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :
	GTJ	10/9 00	1430		COM	10/9/00	5:00
Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :
					MicroSeeps	10-10-00	1000
Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :
		10/9/00	5:30	Fed Ex			5:30

WHITE COPY : Laboratory to return. YELLOW COPY : Laboratory PINK COPY : Submitter

MICROSEEPS

University of Pittsburgh Applied Research Center
220 William Pitt Way, Pittsburgh, PA 15238
(412) 826-5245
FAX (412) 826-3433

October 31, 2000

Ms. Michele Zych
Camp Dresser & McKee
18881 Von Karman
Suite 650
Irvine, CA 92612

Dear Ms. Zych:

Attached is the final data listing for the sample(s) we received on October 9, 2000, your project: PLAYA VISTA .

Please give me a call if you have questions or I can be of further assistance. Thank you for using Microseeps.

Sincerely,

Rebecca J. Hans

RJH/lsp

Attachment: CDM98-203795

Microseeps

CDM98-203795

----- Camp Dresser McKee -----
----- Project: Playavista -----
----- Concentrations in PPMV -----

Sample ID	Methane	Lab ID	Date Sampled	Date Received	Date Analyzed	Analyst
7063	2.60	T39 264	10/06/00	10/09/00	10/27/00	MAM
7064	1.44	T39 265	10/06/00	10/09/00	10/27/00	MAM
7066	3.50	T39 266	10/06/00	10/09/00	10/27/00	MAM
7069	2.24	T39 267	10/06/00	10/09/00	10/27/00	MAM
7070	1.40	T39 268	10/06/00	10/09/00	10/27/00	MAM
7073	2.03	T39 269	10/06/00	10/09/00	10/27/00	MAM
7074	1.80	T39 270	10/06/00	10/09/00	10/27/00	MAM
8007	2.37	T39 271	10/06/00	10/09/00	10/27/00	MAM
8013	1.85	T39 272	10/06/00	10/09/00	10/27/00	MAM
8014	2.87	T39 273	10/06/00	10/09/00	10/27/00	MAM
8017	2.09	T39 274	10/06/00	10/09/00	10/27/00	MAM
7067	5.65	T39 275	10/06/00	10/09/00	10/27/00	MAM
8018	2.42	T39 303	10/06/00	10/09/00	10/30/00	MAM
8019	0.93	T39 304	10/06/00	10/09/00	10/30/00	MAM
8020	4.30	T39 305	10/06/00	10/09/00	10/30/00	MAM
8021	1.64	T39 317	10/06/00	10/09/00	10/30/00	MAM
8022	5.43	T39 306	10/06/00	10/09/00	10/30/00	MAM
7061	1.92	T39 307	10/06/00	10/09/00	10/30/00	MAM
7060	1.80	T39 308	10/06/00	10/09/00	10/30/00	MAM
8027	2.49	T39 309	10/06/00	10/09/00	10/30/00	MAM
8008	5.32	T39 310	10/06/00	10/09/00	10/30/00	MAM
8011	1.13	T39 311	10/06/00	10/09/00	10/30/00	MAM
8024	2.42	T39 312	10/06/00	10/09/00	10/30/00	MAM
8025	3.50	T39 313	10/06/00	10/09/00	10/30/00	MAM
8028	2.14	T39 314	10/06/00	10/09/00	10/30/00	MAM
8029	2.79	T39 315	10/06/00	10/09/00	10/30/00	MAM
8031	1.48	T39 316	10/06/00	10/09/00	10/30/00	MAM

Detection Limits	0.04

Note: Results above represent sample reanalyses for methane, as discussed earlier.

10/30/00

Analyst

Reviewed

Microseeps

***** Quality Control *****

CDM98-203795

----- Camp Dresser McKee -----
----- Project: Playavista -----
----- Concentrations in PPMV -----

Continuing Calibration Standards 10/27/00

Compound	Lab ID	True Conc.	Measured	% Diff.
Methane	T39 228	30.00	31.80	6.00

He in Loop 10/27/00

Compound	Lab ID	Report. Limit (ppmv)	Measured
Methane	T39 230	0.04	ND

Continuing Calibration Standards 10/30/00

Compound	Lab ID	True Conc.	Measured	% Diff.
Methane	T39 278	30.00	33.14	10.47

He in Loop 10/30/00

Compound	Lab ID	Report. Limit (ppmv)	Measured
Methane	T39 280	0.04	ND

Analyst _____

Reviewed _____

Microseeps

CDM98-203795

---- Camp Dresser McKee ----
----- Project: Playavista -----
----- Concentrations in PPMV -----

Sample ID	Methane	Ethane	Ethylene	Propane	Propylene	I-Butane	N-Butane	Lab ID	Date Sampled	Date Received	Date Analyzed	Analyst
7063	17.02	0.14	0.07	0.05	0.04	< 0.03	< 0.03	C22 80	10/06/00	10/09/00	10/17/00	MAM
7064	16.97	0.06	0.02	< 0.03	< 0.03	< 0.03	< 0.03	C22 81	10/06/00	10/09/00	10/17/00	MAM
7066	16.91	0.24	0.08	0.09	0.07	0.03	0.06	C22 82	10/06/00	10/09/00	10/17/00	MAM
7069	17.29	0.01	0.01	< 0.03	< 0.03	< 0.03	< 0.03	C22 84	10/06/00	10/09/00	10/17/00	MAM
7070	15.00	0.09	0.07	0.03	0.05	< 0.03	< 0.03	C22 85	10/06/00	10/09/00	10/17/00	MAM
7073	14.51	0.03	0.02	< 0.03	< 0.03	< 0.03	< 0.03	C22 86	10/06/00	10/09/00	10/17/00	MAM
7074	12.38	0.10	0.09	0.04	0.07	< 0.03	< 0.03	C22 87	10/06/00	10/09/00	10/17/00	MAM
8007	15.96	0.12	0.18	0.05	0.12	< 0.03	< 0.03	C22 88	10/06/00	10/09/00	10/17/00	MAM
8013	13.18	0.13	0.04	0.04	< 0.03	< 0.03	< 0.03	C22 89	10/06/00	10/09/00	10/17/00	MAM
8014	17.94	0.20	0.04	0.07	< 0.03	< 0.03	< 0.03	C22 90	10/06/00	10/09/00	10/17/00	MAM
8017	12.80	0.09	0.03	< 0.03	< 0.03	< 0.03	< 0.03	C22 91	10/06/00	10/09/00	10/17/00	MAM
7067	18.08	0.27	0.12	0.11	0.09	< 0.03	0.06	C22 92	10/06/00	10/09/00	10/17/00	MAM
8018	15.32	0.10	0.07	0.04	0.05	< 0.03	< 0.03	C22 93	10/06/00	10/09/00	10/17/00	MAM
8019	11.57	0.03	0.01	< 0.03	< 0.03	< 0.03	< 0.03	C22 94	10/06/00	10/09/00	10/17/00	MAM
8020	13.96	0.06	0.03	< 0.03	< 0.03	< 0.03	< 0.03	C22 95	10/06/00	10/09/00	10/17/00	MAM
8021	13.55	0.04	0.03	< 0.03	< 0.03	< 0.03	< 0.03	C22 96	10/06/00	10/09/00	10/17/00	MAM
8022	18.90	0.59	0.82	0.27	0.66	< 0.03	0.11	C22 97	10/06/00	10/09/00	10/17/00	MAM
7061	11.96	0.06	0.02	< 0.03	< 0.03	< 0.03	< 0.03	C22 98	10/06/00	10/09/00	10/17/00	MAM
7060	13.02	0.03	< 0.01	< 0.03	< 0.03	< 0.03	< 0.03	C22 99	10/06/00	10/09/00	10/17/00	MAM
8027	13.83	0.09	0.04	0.04	0.03	< 0.03	< 0.03	C22 100	10/06/00	10/09/00	10/17/00	MAM
8008	16.72	0.40	0.66	0.17	0.45	< 0.03	0.03	C22 101	10/06/00	10/09/00	10/17/00	MAM
8011	12.31	0.06	0.03	< 0.03	< 0.03	< 0.03	< 0.03	C22 102	10/06/00	10/09/00	10/17/00	MAM
8024	13.78	0.08	0.05	< 0.03	0.03	< 0.03	< 0.03	C22 103	10/06/00	10/09/00	10/17/00	MAM
8025	13.72	0.18	0.10	0.05	0.07	< 0.03	< 0.03	C22 104	10/06/00	10/09/00	10/17/00	MAM
8028	12.72	0.13	0.06	0.05	0.05	< 0.03	< 0.03	C22 105	10/06/00	10/09/00	10/17/00	MAM
8029	14.41	0.07	0.05	< 0.03	0.04	< 0.03	< 0.03	C22 106	10/06/00	10/09/00	10/17/00	MAM
8031	12.32	0.02	0.02	< 0.03	< 0.03	< 0.03	< 0.03	C22 107	10/06/00	10/09/00	10/17/00	MAM
Detection Limits	0.04	0.01	0.01	0.03	0.03	0.03	0.03					

Note: Methane results affected by oxygen interference. Reported concentrations of methane are higher due too this interference. Laboratory will reanalyze samples for methane at earliest convienence.

10/24/00

Analyst

Reviewed

Microseeps

***** Quality Control *****

CDM98-203795

----- Camp Dresser McKee -----
----- Project: Playavista -----
----- Concentrations in PPMV -----

Continuing Calibration Standards 10/17/00

Compound	Lab ID	True Conc.	Measured	% Diff.
Methane	C22 78	30.00	28.38	5.40
Ethane	C22 78	10.00	9.30	7.00
Ethylene	C22 78	10.00	9.37	6.30
Propane	C22 78	10.00	9.28	7.20
Propylene	C22 78	10.00	9.40	6.00
I-Butane	C22 78	10.00	9.35	6.50
N-Butane	C22 78	10.00	9.45	5.50

He in Loop 10/17/00

Compound	Lab ID	Report. Limit (ppmv)	Measured
Methane	C22 79	0.04	ND
Ethane	C22 79	0.01	ND
Ethylene	C22 79	0.01	ND
Propane	C22 79	0.03	ND
Propylene	C22 79	0.03	ND
I-Butane	C22 79	0.03	ND
N-Butane	C22 79	0.03	ND

Analyst _____

Reviewed _____

Microseeps

CDM98 -203795

----- CAMP DRESSER & MCKEE -----
----- Location: PLAYA VISTA -----
----- Concentrations in PPMV -----

Sample ID	Benzene	Toluene	Ethyl Benzene	M/P Xylene	Ortho Xylene	Lab ID	Date Sampled	Date Received	Date Analyzed	Analyst
7063	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A82	10/06/00	10/09/00	10/12/00	JLL
7064	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A83	10/06/00	10/09/00	10/12/00	JLL
7066	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A84	10/06/00	10/09/00	10/12/00	JLL
7067	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A85	10/06/00	10/09/00	10/12/00	JLL
7069	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A86	10/06/00	10/09/00	10/12/00	JLL
7070	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A87	10/06/00	10/09/00	10/12/00	JLL
7073	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A88	10/06/00	10/09/00	10/12/00	JLL
7074	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A92	10/06/00	10/09/00	10/13/00	JLL
8007	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A93	10/06/00	10/09/00	10/13/00	JLL
8013	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A94	10/06/00	10/09/00	10/13/00	JLL
8014	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A95	10/06/00	10/09/00	10/13/00	JLL
8017	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A96	10/06/00	10/09/00	10/13/00	JLL
8018	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A97	10/06/00	10/09/00	10/13/00	JLL
8019	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A98	10/06/00	10/09/00	10/13/00	JLL
8020	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A99	10/06/00	10/09/00	10/13/00	JLL
8021	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A100	10/06/00	10/09/00	10/13/00	JLL
8022	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A101	10/06/00	10/09/00	10/13/00	JLL
7061	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A102	10/06/00	10/09/00	10/13/00	JLL
7060	< 0.07	0.17	< 0.07	< 0.07	< 0.07	W100A103	10/06/00	10/09/00	10/13/00	JLL
8027	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A104	10/06/00	10/09/00	10/13/00	JLL
8008	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A105	10/06/00	10/09/00	10/13/00	JLL
8011	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A106	10/06/00	10/09/00	10/13/00	JLL
8024	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A107	10/06/00	10/09/00	10/13/00	JLL
8025	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A108	10/06/00	10/09/00	10/13/00	JLL
8028	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A109	10/06/00	10/09/00	10/13/00	JLL
8029	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A110	10/06/00	10/09/00	10/13/00	JLL
8031	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A111	10/06/00	10/09/00	10/13/00	JLL
Detection Limits	0.07	0.07	0.07	0.07	0.07					

10/16/00

Analyst JLL

Reviewed

Microseeps

Quality Control

CDM98 -203795

----- CAMP DRESSER & MCKEE -----
----- Location: PLAYA VISTA -----
----- Concentrations in PPMV -----

Continuing Calibration Standards 10/12/00

Compound	Lab ID	True Conc.	Measured	% Diff.
Benzene	W100A67	1.25	1.29	3.20
Toluene	W100A67	1.06	1.11	4.72
Ethyl Benzene	W100A67	0.92	0.96	4.35
M/P Xylene	W100A67	1.84	1.96	6.52
Ortho Xylene	W100A67	0.92	0.97	5.43

N2 in vial 10/12/00

Compound	Lab ID	Report. Limit (ppmv)	Measured
Benzene	W100A68	0.07	ND
Toluene	W100A68	0.07	ND
Ethyl Benzene	W100A68	0.07	ND
M/P Xylene	W100A68	0.07	ND
Ortho Xylene	W100A68	0.07	ND

Continuing Calibration Standards 10/13/00

Compound	Lab ID	True Conc.	Measured	% Diff.
Benzene	W100A90	1.25	1.37	9.60
Toluene	W100A90	1.06	1.17	10.38
Ethyl Benzene	W100A90	0.92	1.02	10.87
M/P Xylene	W100A90	1.84	2.07	12.50
Ortho Xylene	W100A90	0.92	1.04	13.04

N2 in vial 10/13/00

Compound	Lab ID	Report. Limit (ppmv)	Measured
Benzene	W100A91	0.07	ND
Toluene	W100A91	0.07	ND
Ethyl Benzene	W100A91	0.07	ND
M/P Xylene	W100A91	0.07	ND
Ortho Xylene	W100A91	0.07	ND

Analyst JLL

Reviewed

MICROSEEPS, Inc.

220 William Pitt Way, Pittsburgh, PA 15238

Phone: (412) 826-5245 Fax: (412) 826-3433

203175-CUM781

CHAIN-OF-CUSTODY RECORD

Company Name: DLAMA VISTA

Address: 12555 W JEFFERSON

Proj. Manager: WENSCOTT

Proj. Location: LA CA

Proj. Number:

Phone # : Fax # :

Sampler's signature :

Note: Enter proper letters in Requested Analyses columns below.

Note: If analysis D,E,or K is selected, scratch (option) NOT wanted.

Analysis Options

*A	C1 -C4	G	Chlorinated HC
*B	Hydrogen & Helium	H	BTEX
*C	Permanent Gases (CH4, CO, CO2, N2, O2)	J	BTEX & C5 - C10
D	Mercury (Soil) or (Air **)	K	TPH (C5 - C10) or (C4 -C12)
E	TO-14 by GC/MS (Ambient) or (Source **)	L	C11 - C18
F	601 & 602 Compounds	Other	Specify below.

* An additional 22 ml vial of sample is required when requested in combination with another analysis.

** Available upon request.

Collection Date	Collection Time	Number of Containers	"Summa" # if Can. used	Sample Type	Sample Identification	Requested Analyses	(Other)	Remarks
10-6	1000	1		SOIL GAS	8014	A		
	1005	1			8014	H		
	1010	1			8011	A		
	1015	1			8011	H		
	1015	1			8007	A		
	1020	1			8007	H		
	1045	1			8008	A		
	1050	1			8008	H		
	1055	1			8013	A		
	1058	1			8013	H		
	1100	1			8017	A		
	1105	1			8017	H		

Results to :

Invoice to :

Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :
	STI	10600	4:30P	Brian Carrillo	Microseeps	10-09-00	1000
Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :
Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :

WHITE COPY : Laboratory to return. YELLOW COPY : Laboratory PINK COPY : Submitter

MICROSEEPS, Inc.

220 William Pitt Way, Pittsburgh, PA 15238

Phone: (412) 826-5245 Fax: (412) 826-3433

203795-COM982

CHAIN-OF-CUSTODY RECORD

Company Name: PLAYA VISTA

Address: 12555 W JEFFERSON

Proj. Manager: MERSCHAT

Proj. Location: LA CA 90066

Proj. Number:

Phone # : Fax # :

Sampler's signature:

Note: Enter proper letters in Requested Analyses columns below.

Note: If analysis D,E,or K is selected, scratch (option) NOT wanted.

Analysis Options

*A	C1 -C4	G	Chlorinated HC
*B	Hydrogen & Helium	H	BTEX
*C	Permanent Gases (CH4, CO, CO2, N2, O2)	I	BTEX & C5 - C10
D	Mercury (Soil) or (Air **)	K	TPH (C5 - C10) or (C4 -C12)
E	TO-14 by GC/MS (Ambient) or (Source **)	L	C11 - C18
F	601 & 602 Compounds	Other	Specify below.

* An additional 22 ml vial of sample is required when requested in combination with another analysis.

** Available upon request.

Collection Date	Collection Time	Number of Containers	"Summa" # if Can. used	Sample Type	Sample Identification	Requested Analyses	(Other)	Remarks
10-6	1010	1		SOILGAS	8018	A		
	1015	1			8018	A		
	1118	1			8020	A		
	1122	1			8020	A		
	1125	1			8021	A		
	1130	1			8021	A		
	1145	1			8019	A		
	1150	1			8019	A		
	1150	1			8022	A		
	1155	1			8022	A		
	1155	1			8024	A		
	1200	1			8024	A		

Results to :

Invoice to :

Relinquished by	Company	Date	Time	Received by	Company	Date	Time
	ETI	10600	4:30P	Brian Camilli	Microseeps	10-09-00	1000
Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :
Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :

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MICROSEEPS, Inc.

220 William Pitt Way, Pittsburgh, PA 15238

Phone: (412) 826-5245 Fax: (412) 826-3433

203175-CUM78 3

CHAIN-OF-CUSTODY RECORD

Company Name: PLAYA VISTA

Address: 12555 W JEFFERSON

Proj. Manager: MERSCHAT

Proj. Location: LA CA 90066

Proj. Number:

Phone # : Fax # :

Sampler's signature:

Note: Enter proper letters in Requested Analyses columns below.

Note: If analysis D,E,or K is selected, scratch (option) NOT wanted.

Analysis Options

* A	C1 -C4	G	Chlorinated HC
* B	Hydrogen & Helium	H	BTEX
* C	Permanent Gases (CH4, CO, CO2, N2, O2)	J	BTEX & C5 - C10
D	Mercury (Soil) or (Air **)	K	TPH (C5 - C10) or (C4 -C12)
E	TO-14 by GC/MS (Ambient) or (Source **)	L	C11 - C18
F	601 & 602 Compounds	Other	Specify below.

* An additional 22 ml vial of sample is required when requested in combination with another analysis.

** Available upon request.

Collection Date	Collection Time	Number of Containers	"Summa" # if Can. used	Sample Source/Gas Type	Sample Identification	Requested Analyses	(Other)	Remarks
10-6	1255	1			8027	A		
	100	1			8027	H		
	105	1			8029	A		
	110	1			8029	H		
	1245	1			8031	A		
	1250	1			8031	H		
	120	1			8025	A		
	125	1			8025	H		
	125	1			8028	A		
	130	1			8028	H		
	1300	1			7070	A		
↓	253	1		↓	7070	H		

Results to :

Invoice to :

Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :
	ETJ	10-6	4:30	Brian Carmichael	Microseeps	10-09-00	1000
Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :
Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :

WHITE COPY : Laboratory to return. YELLOW COPY : Laboratory PINK COPY : Submitter

203175-CVM104

MICROSEEPS, Inc.

220 William Pitt Way, Pittsburgh, PA 15238

Phone: (412) 826-5245 Fax: (412) 826-3433

CHAIN-OF-CUSTODY RECORD

Company Name: PLAYA VISTA

Address: 12555 W JEFFERSON

Proj. Manager: NERSHAT

Proj. Location: LA CA 90066

Proj. Number:

Phone # : Fax # :

Sampler's signature :

Note: Enter proper letters in Requested Analyses columns below.

Note: If analysis D,E,or K is selected, scratch (option) NOT wanted.

Analysis Options

*A	C1 -C4	G	Chlorinated HC
*B	Hydrogen & Helium	H	BTEX
*C	Permanent Gases (CH4, CO, CO2, N2, O2)	I	BTEX & C5 - C10
D	Mercury (Soil) or (Air **)	K	TPH (C5 - C10) or (C4 -C12)
E	TO-14 by GC/MS (Ambient) or (Source **)	L	C11 - C18
F	601 & 602 Compounds	Other	Specify below.

* An additional 22 ml vial of sample is required when requested in combination with another analysis.

** Available upon request.

Collection Date	Collection Time	Number of Containers	"Summa" # if Can. used	Sample Type (SOIL/AIR)	Sample Identification	Requested Analyses					(Other)	Remarks
10-6	300	1			7073	A						
	305	1			7073	H						
	315	1			7074	A						
	320	1			7074	A						
	310	1			7066	A						
	325	1			7066	H						
	325	1			7067	A						
	330	1			7067	H						
	335	1			7069	A						
	340	1			7069	H						
	345	1			7061	A						
	350	1			7061	H						

Results to :

Invoice to :

Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :
	STJ	10-6-00	4:30P	Brian Carmichael	Microseeps	10-09-00	1000
Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :
Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :

WHITE COPY : Laboratory to return. YELLOW COPY : Laboratory PINK COPY : Submitter

MICROSEEPS, Inc.

220 William Pitt Way, Pittsburgh, PA 15238

Phone: (412) 826-5245 Fax: (412) 826-3433

20311 Cummins 5

CHAIN-OF-CUSTODY RECORD

Company Name: PLAYA VISTA

Address: 12555 W JEFFERSON

Proj. Manager: MEDSHAT

Proj. Location: LA CA 90066

Proj. Number:

Phone # : Fax # :

Sampler's signature :

Note: Enter proper letters in Requested Analyses columns below.

Note: If analysis D,E,or K is selected, scratch (option) NOT wanted.

Analysis Options

* A	C1 -C4	G	Chlorinated HC
* B	Hydrogen & Helium	H	BTEX
* C	Permanent Gases (CH4, CO, CO2, N2, O2)	J	BTEX & C5 - C10
D	Mercury (Soil) or (Air **)	K	TPH (C5 - C10) or (C4 -C12)
E	TO-14 by GC/MS (Ambient) or (Source **)	L	C11 - C18
F	601 & 602 Compounds	Other	Specify below.

* An additional 22 ml vial of sample is required when requested in combination with another analysis.

** Available upon request.

Collection Date	Collection Time	Number of Containers	"Summa" # if Can. used	Sample Type	Sample Identification	Requested Analyses	(Other)	Remarks
10/6	355	1		SOIL GAS	7063	A		
	358	1			7063	H		
	358	1			7064	A		
	401	1			7064	H		
	405	1			7060	A		
	410	1			7060	H		

Results to :

Invoice to :

Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :
	ETI	10-6-00	4:30P	Brian Cunniffe	Microseeps	10-9-00	1000
Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :
Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :

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MICROSEEPS

University of Pittsburgh Applied Research Center
220 William Pitt Way, Pittsburgh, PA 15238
(412) 826-5245
FAX (412) 826-3433

November 2, 2000

Ms. Michele Zych
Camp Dresser & McKee
18881 Von Karman
Suite 650
Irvine, CA 92612

Dear Ms. Zych:

Attached is the final data listing for the sample(s) we received on October 11, 2000, your project: PLAYA VISTA.

Please give me a call if you have questions or I can be of further assistance. Thank you for using Microseeps.

Sincerely,

Rebecca J. Hans

RJH/lsp

Attachment: CDM101-203811

Microseeps

CDM101 -203811

----- CAMP DRESSER & MCKEE -----
----- Location: PLAYA VISTA -----
----- Concentrations in PPMV -----

Sample ID	Benzene	Toluene	Ethyl Benzene	M/P Xylene	Ortho Xylene	Lab ID	Date Sampled	Date Received	Date Analyzed	Analyst
9035	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A166	10/11/00	10/12/00	10/18/00	JLL
9037	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A167	10/11/00	10/12/00	10/18/00	JLL
9045	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A168	10/11/00	10/12/00	10/18/00	JLL
9043	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A170	10/11/00	10/12/00	10/18/00	JLL
9047	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A171	10/11/00	10/12/00	10/18/00	JLL
9030	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A172	10/11/00	10/12/00	10/18/00	JLL
9013	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A173	10/11/00	10/12/00	10/18/00	JLL
9033	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A174	10/11/00	10/12/00	10/18/00	JLL
9017	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A175	10/11/00	10/12/00	10/18/00	JLL
9034	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A176	10/11/00	10/12/00	10/18/00	JLL
9041	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A177	10/11/00	10/12/00	10/18/00	JLL
9010	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A178	10/11/00	10/12/00	10/18/00	JLL
9025	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A181	10/11/00	10/12/00	10/19/00	JLL
9026	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A182	10/11/00	10/12/00	10/19/00	JLL
9021	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A183	10/11/00	10/12/00	10/19/00	JLL
9046	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A184	10/11/00	10/12/00	10/19/00	JLL
9006	< 0.07	< 0.07	< 0.07	0.13	< 0.07	W100A185	10/11/00	10/12/00	10/19/00	JLL
9002	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A186	10/11/00	10/12/00	10/19/00	JLL
9022	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A187	10/11/00	10/12/00	10/19/00	JLL
9005	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A188	10/11/00	10/12/00	10/19/00	JLL
9028	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A189	10/11/00	10/12/00	10/19/00	JLL
9029	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A190	10/11/00	10/12/00	10/19/00	JLL
9001	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A191	10/11/00	10/12/00	10/19/00	JLL
9014	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A192	10/11/00	10/12/00	10/19/00	JLL
9009	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A193	10/11/00	10/12/00	10/19/00	JLL
9018	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A194	10/11/00	10/12/00	10/19/00	JLL
9032	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A195	10/11/00	10/12/00	10/19/00	JLL
9039	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A196	10/11/00	10/12/00	10/19/00	JLL
DetectionLimits	0.07	0.07	0.07	0.07	0.07					

10/20/00

Analyst JLL

Reviewed

Microseeps

***** Quality Control *****

CDM101-203811

----- Camp Dresser & McKee -----
----- Location: Playavista -----
----- Concentrations in PPMV -----

Continuing Calibration Standards 10/18/00

Compound	Lab ID	True Conc.	Measured	% Diff.
Benzene	W100A157	1.25	1.18	5.60
Toluene	W100A157	1.06	1.03	2.83
Ethyl Benzene	W100A157	0.92	0.92	0.00
M/P Xylene	W100A157	1.84	1.83	0.54
Ortho Xylene	W100A157	0.92	0.91	1.09

N2 in vial 10/18/00

Compound	Lab ID	Report. Limit (ppmv)	Measured
Benzene	W100A158	0.07	ND
Toluene	W100A158	0.07	ND
Ethyl Benzene	W100A158	0.07	ND
M/P Xylene	W100A158	0.07	ND
Ortho Xylene	W100A158	0.07	ND

Continuing Calibration Standards 10/19/00

Compound	Lab ID	True Conc.	Measured	% Diff.
Benzene	W100A179	1.25	1.25	0.00
Toluene	W100A179	1.06	1.08	1.89
Ethyl Benzene	W100A179	0.92	0.95	3.26
M/P Xylene	W100A179	1.84	1.92	4.35
Ortho Xylene	W100A179	0.92	0.96	4.35

N2 in vial 10/19/00

Compound	Lab ID	Report. Limit (ppmv)	Measured
Benzene	W100A180	0.07	ND
Toluene	W100A180	0.07	ND
Ethyl Benzene	W100A180	0.07	ND
M/P Xylene	W100A180	0.07	ND
Ortho Xylene	W100A180	0.07	ND

Analyst JL/MAM

Reviewed

Microseeps

CDM101-203811

— CAMP DRESSER & MCKEE —
— LOCATION: (PLAYA VISTA) - LOS ANGELES, CA —

Sample Names	Methane (%V)	Methane (PPMV)	Ethane (PPMV)	Ethylene (PPMV)	Propane (PPMV)	Propylene (PPMV)	Iso-Butane (PPMV)	N-Butane (PPMV)	Lab ID	Date Sampled	Date Received	Date Analyzed	Analyst
9035	*	4.99	0.40	0.49	0.16	0.32	<0.03	0.05	T39 198	10/11/00	10/12/00	10/26/00	MM
9037	*	4.61	0.34	0.23	0.09	0.16	<0.03	0.04	T39 199	10/11/00	10/12/00	10/26/00	MM
9045	*	2.85	0.12	0.06	0.04	0.06	0.06	<0.03	T39 200	10/11/00	10/12/00	10/26/00	MM
9043	*	4.49	0.24	0.16	0.09	0.11	<0.03	<0.03	T39 201	10/11/00	10/12/00	10/26/00	MM
9047	*	1.21	0.14	0.10	0.04	0.09	<0.03	<0.03	T39 202	10/11/00	10/12/00	10/26/00	MM
9030	*	7.21	0.50	0.27	0.13	0.19	0.05	0.08	T39 203	10/11/00	10/12/00	10/26/00	MM
9013	*	7.88	0.58	0.41	0.26	0.32	0.06	0.12	T39 204	10/11/00	10/12/00	10/26/00	MM
9033	*	4.18	0.21	0.13	0.10	0.09	<0.03	0.04	T39 205	10/11/00	10/12/00	10/26/00	MM
9017	*	35.2	0.54	0.33	0.21	0.24	0.04	0.06	T39 206	10/11/00	10/12/00	10/26/00	MM
9034	*	8.75	0.44	0.17	0.09	0.11	<0.03	<0.03	T39 207	10/11/00	10/12/00	10/26/00	MM
9041	*	20.3	0.23	0.17	0.08	0.12	<0.03	<0.03	T39 208	10/11/00	10/12/00	10/26/00	MM
9010	*	4.78	0.31	0.30	0.10	0.20	<0.03	<0.03	T39 209	10/11/00	10/12/00	10/26/00	MM
9025	*	8.94	0.69	0.42	0.30	0.32	0.07	0.13	T39 210	10/11/00	10/12/00	10/26/00	MM
9026	*	27.2	0.54	0.28	0.22	0.19	0.05	0.10	T39 211	10/11/00	10/12/00	10/26/00	MM
9021	*	59.2	0.54	0.32	0.23	0.21	0.07	0.10	T39 212	10/11/00	10/12/00	10/26/00	MM
9046	*	1.80	0.15	0.22	0.07	0.17	<0.03	<0.03	T39 213	10/11/00	10/12/00	10/26/00	MM
9006	*	6.84	0.32	0.32	0.12	0.20	<0.03	<0.03	T39 214	10/11/00	10/12/00	10/26/00	MM
9002	*	2.34	0.12	0.11	0.04	0.10	<0.03	<0.03	T39 215	10/11/00	10/12/00	10/26/00	MM
9022	0.09	*	0.77	0.41	0.34	0.26	0.08	0.14	T39 216	10/11/00	10/12/00	10/26/00	MM
9005A	*	93.8	0.52	0.24	0.17	0.15	0.05	0.07	T39 217	10/11/00	10/12/00	10/26/00	MM
9005B	*	7.70	0.71	0.38	0.27	0.28	0.07	0.11	T39 218	10/11/00	10/12/00	10/26/00	MM
9028	0.10	*	0.22	0.11	0.25	0.07	0.08	0.10	T39 219	10/11/00	10/12/00	10/26/00	MM
9029	0.37	*	6.42	1.14	2.30	0.77	0.44	0.70	T39 220	10/11/00	10/12/00	10/26/00	MM
9014	*	194.9	1.19	0.97	0.57	0.92	0.11	0.20	T39 221	10/11/00	10/12/00	10/26/00	MM
9009	*	6.35	0.75	0.45	0.29	0.37	0.08	0.13	T39 222	10/11/00	10/12/00	10/26/00	MM
9018	*	9.37	0.50	0.12	0.27	0.08	0.07	0.10	T39 223	10/11/00	10/12/00	10/26/00	MM
9032	*	1.61	0.13	0.11	0.06	0.10	<0.03	<0.03	T39 224	10/11/00	10/12/00	10/26/00	MM
9039	*	7.68	0.54	0.23	0.15	0.21	0.04	0.06	T39 225	10/11/00	10/12/00	10/26/00	MM
DETECTION LIMITS	0.02	0.04	0.01	0.01	0.03	0.03	0.03	0.03					

* METHANE RESULT TAKEN FROM ALTERNATE DETECTOR

NOTE: TWO VIALS WITH THE SAME SAMPLE IDENTIFICATION (9005) WERE RECEIVED BY MICROSEEPS. HOWEVER, SAMPLE 9001 WAS MISSING.

ANALYST

REVIEW

Microseeps

***** QUALITY CONTROL *****

CDM101-203811

----- CAMP DRESSER & MCKEE -----
----- LOCATION: (PLAYA VISTA) - LOS ANGELES, CA -----

CONTINUING CALIBRATION STANDARDS 10/26/00

COMPOUND	FILE ID	TRUE CONC.	MEASURED	% DIFF.
METHANE (FID)	T39 169	30.00	32.12	7.07
ETHANE	T39 169	10.00	9.88	1.20
ETHYLENE	T39 169	10.00	9.83	1.70
PROPANE	T39 169	10.00	9.80	2.00
PROPYLENE	T39 169	10.00	9.82	1.80
ISO-BUTANE	T39 169	10.00	10.21	2.10
N-BUTANE	T39 169	10.00	10.46	4.60

HE IN LOOP 10/26/00

COMPOUND	FILE ID	DET. LIMIT	MEASURED
METHANE (FID)	T39 171	0.04 PPMV	ND
ETHANE	T39 171	0.01 PPMV	ND
ETHYLENE	T39 171	0.01 PPMV	ND
PROPANE	T39 171	0.03 PPMV	ND
PROPYLENE	T39 171	0.03 PPMV	ND
ISO-BUTANE	T39 171	0.03 PPMV	ND
N-BUTANE	T39 171	0.03 PPMV	ND

ANALYST INITIALS

REVIEW

203811 / CDM 104

1 of 5

MICROSEEPS, Inc.

220 William Pitt Way, Pittsburgh, PA 15238

Phone: (412) 826-5245 Fax: (412) 826-3433

CHAIN-OF-CUSTODY RECORD

Company Name: PLAYA VISTA

Address: 12555 W JEFFERSON

Proj. Manager: MERSCHAT

Proj. Location: LA CA 90066

Proj. Number:

Phone # : Fax # :

Sampler's signature:

Note: Enter proper letters in Requested Analyses columns below.

Note: If analysis D,E,or K is selected, scratch (option) NOT wanted.

Analysis Options

* A	C1 -C4	G	Chlorinated HC
* B	Hydrogen & Helium	H	BTEX
* C	Permanent Gases (CH4, CO, CO2, N2, O2)	J	BTEX & C5 - C10
D	Mercury (Soil) or (Air **)	K	TPH (C5 - C10) or (C4 -C12)
E	TO-14 by GC/MS (Ambient) or (Source **)	L	C11 - C18
F	601 & 602 Compounds	Other	Specify below.

* An additional 22 ml vial of sample is required when requested in combination with another analysis.

** Available upon request.

Collection Date	Collection Time	Number of Containers	"Summa" # if Can. used	Sample Type	Sample Identification	Requested Analyses	(Other)	Remarks
10-11	935	1		SOIL GAS	9046	A		
	940	1			9046	H		
	950	1			9047	A		
	955	1			9047	H		
	1000	1			9035	A		
	1005	1			9035	H		
	1010	1			9032	A		
	1015	1			9032	H		
	1020	1			9028	A		
	1025	1			9028	H		
	1035	1			9002	A		
	1040	1			9002	H		

Results to :

Invoice to :

Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :
	ET	10-11	4:30P		CDM	10/11/00	4:40PM
Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :
						10-12	10 05
Relinquished by :	Company :	Date :	Time :	Received by : Fedex	Company : #822029600205	Date : 10/11/00	Time : 5:00 PM

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MICROSEEPS, Inc.

220 William Pitt Way, Pittsburgh, PA 15238

Phone: (412) 826-5245 Fax: (412) 826-3433

2038$1 / COM 10¢

2 of 5

CHAIN-OF-CUSTODY RECORD

Company Name: PLAYA VISTA
Address: 12555 W JEFFERSON
Proj. Manager: MEIRSCHAT
Proj. Location: LA CA 90066
Proj. Number:
Phone # : Fax # :
Sampler's signature :

Note: Enter proper letters in Requested Analyses columns below.

Note: If analysis D,E,or K is selected, scratch (option) NOT wanted.

Analysis Options

* A	C1 -C4	G	Chlorinated HC
* B	Hydrogen & Helium	H	BTEX
* C	Permanent Gases (CH4, CO, CO2, N2, O2)	I	BTEX & C5 - C10
D	Mercury (Soil) or (Air **)	K	TPH (C5 - C10) or (C4 -C12)
E	TO-14 by GC/MS (Ambient) or (Source **)	L	C11 - C18
F	601 & 602 Compounds	Other	Specify below.

* An additional 22 ml vial of sample is required when requested in combination with another analysis.

** Available upon request.

Collection Date	Collection Time	Number of Containers	"Summa" # if Can. used	Sample Type	Sample Identification	Requested Analyses	(Other)	Remarks
10-11	1057	1		SOIL GAS	9006 ✓	A		
	1103	1			9006 ✓	H		
	1055	1			9010 ✓	A		
	1100	1			9010 ✓	H		
	1105	1			9014 ✓	A		
	1110	1			9014 ✓	H		
	1115	1			2 9018 ✓	A		
	1120	1			2 9018 ✓	H		
	1140	1			9026 ✓	A		
	1145	1			9026 ✓	H		
	1120	1			9022 ✓	A		
	1125	1			9022 ✓	H		

Results to :

Invoice to :

	Company	Date	Time		Company	Date	Time
Relinquished by :	ETI	10-11	4:30P	Received by :	CDM	10/11/00	4:40PM
Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date : 10-12	Time : 10 10
Relinquished by :	Company :	Date :	Time :	Received by : Fedex	Company : # 822029600206	Date : 10/11/00	Time : 5:00 PM

WHITE COPY : Laboratory to return. YELLOW COPY : Laboratory PINK COPY : Submitter

MICROSEEPS, Inc.

220 William Pitt Way, Pittsburgh, PA 15238

Phone: (412) 826-5245 Fax: (412) 826-3433

203811/COM 10¢

CHAIN-OF-CUSTODY RECORD

3 of 5

Company Name: PLAYA VISTA

Address: 12555 W. JEFFERSON

Proj. Manager: LA CA 90066

Proj. Location: MITSCHER

Proj. Number:

Phone # : Fax # :

Sampler's signature:

Note: Enter proper letters in Requested Analyses columns below.

Note: If analysis D,E,or K is selected, scratch (option) NOT wanted.

Analysis Options

A	C1 -C4	G	Chlorinated HC
* B	Hydrogen & Helium	H	BTEX
* C	Permanent Gases (CH4, CO, CO2, N2, O2)	J	BTEX & C5 - C10
D	Mercury (Soil) or (Air **)	K	TPH (C5 - C10) or (C4 -C12)
E	TO-14 by GC/MS (Ambient) or (Source **)	L	C11 - C18
F	601 & 602 Compounds	Other	Specify below.

* An additional 22 ml vial of sample is required when requested in combination with another analysis.

** Available upon request.

Collection Date	Collection Time	Number of Containers	"Summa" # if Can. used	Sample Type	Sample Identification	Requested Analyses					(Other)	Remarks
10-11	1155	1			9030 ✓	A						
	1150	1			9030 ✓	H						
	1215	1			9037 ✓	A						
	1220	1			9037 ✓	H						
	NOON	1			9034 ✓	A						
	1210	1			9034 ✓	H						
	225	1			9039 ✓	A						
	230	1			9039 ✓	H						
	240	1			9041 ✓	A						
	245	1			9041 ✓	H						
	235	1			9043 ✓	A						
↓	240	1			9043 ✓	H						

Results to :

Invoice to :

Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :
	CTJ	10-11	4:30P		CDM	10/11/00	4:40PM
Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :
						10-12	10 15
Relinquished by :	Company :	Date :	Time :	Received by : Fedex	Company : 822029600205	Date :	Time : 5:00PM

WHITE COPY : Laboratory to return. YELLOW COPY : Laboratory PINK COPY : Submitter

MICROSEEPS, Inc.

220 William Pitt Way, Pittsburgh, PA 15238

Phone: (412) 826-5245 Fax: (412) 826-3433

203811 / COM 10P

4 of 5

CHAIN-OF-CUSTODY RECORD

Company Name: PLAYA VISTA

Address: 12555 W JEFFERSON

Proj. Manager: MERSCHAT

Proj. Location: LA CA 90066

Proj. Number:

Phone # : Fax # :

Sampler's signature :

Note: Enter proper letters in Requested Analyses columns below.

Note: If analysis D,E,or K is selected, scratch (option) NOT wanted.

Analysis Options

*A	C1 -C4	G	Chlorinated HC
* B	Hydrogen & Helium	H	BTEX
* C	Permanent Gases (CH4, CO, CO2, N2, O2)	J	BTEX & C5 - C10
D	Mercury (Soil) or (Air **)	K	TPH (C5 - C10) or (C4 -C12)
E	TO-14 by GC/MS (Ambient) or (Source **)	L	C11 - C18
F	601 & 602 Compounds	Other	Specify below.

* An additional 22 ml vial of sample is required when requested in combination with another analysis.

** Available upon request.

Collection Date	Collection Time	Number of Containers	"Summa" # if Can. used	Sample Type (SOIL/AIR)	Sample Identification	Requested Analyses					(Other)	Remarks
10-11	250	1			9045	A						
	255	1			9045	H						
	300	1			9001	A						
	305	1			9001	H						
	310	1			2 9005	A						
	315	1			2 9005	H						
	315	1			9009	D						
	320	1			9009	H						
	330	1			9013	D						
	335	1			9013	H						
	340	1			9017	D						
	345	1			9017	H						

Results to :

Invoice to :

Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :
	EPT	10-11	4:30		CDM	10/11/00	4:40PM
Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :
						10-12	10:20
Relinquished by :	Company :	Date :	Time :	Received by : Fedex	Company : #832029600208	Date : 10/13/00	Time : 5:00 PM

WHITE COPY : Laboratory to return. YELLOW COPY : Laboratory PINK COPY : Submitter

MICROSEEPS, Inc.

203811 / COM 10Φ

5 of 5

CHAIN-OF-CUSTODY RECORD

220 William Pitt Way, Pittsburgh, PA 15238

Phone: (412) 826-5245 Fax: (412) 826-3433

Company Name: RANCHO VISTA

Address: 12555 W JEFFERSON

Proj. Manager: NEIKIRK

Proj. Location: LA CA 90066

Proj. Number:

Phone # : Fax # :

Sampler's signature :

Note: Enter proper letters in Requested Analyses columns below.

Analysis Options Note: If analysis D,E,or K is selected, scratch (option) NOT wanted.

* A	C1 -C4	G	Chlorinated HC
* B	Hydrogen & Helium	H	BTEX
* C	Permanent Gases (CH4, CO, CO2, N2, O2)	I	BTEX & C5 - C10
D	Mercury (Soil) or (Air **)	K	TPH (C5 - C10) or (C4 -C12)
E	TO-14 by GC/MS (Ambient) or (Source **)	L	C11 - C18
F	601 & 602 Compounds	Other	Specify below.

* An additional 22 ml vial of sample is required when requested in combination with another analysis.

** Available upon request.

Collection Date	Collection Time	Number of Containers	"Summa" # if Can. used	Sample Type	Sample Identification	Requested Analyses	(Other)	Remarks
10/11	345	1		SOIL GAS	9021 ✓	A		
	350	1			9021 ✓	A		
	355	1			9025 ✓	A		
	400	1			9025 ✓	A		
	400	1			9029 ✓	A		
	405	1			9029 ✓	A		
	410	1			9033 ✓	A		
	415	1			9033 ✓	A		
		1						
		1						
		1						
		1						

Results to : 90066

Invoice to :

Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :
[illegible]	ETT	10-11	4:30P	[illegible]	CDM	10/11/00	4:40 AM
Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :
				[illegible]	—	10-12	1030
Relinquished by :	Company :	Date :	Time :	Received by : Fedex	Company : # 5220 2960 0208	Date : 10/11/00	Time : 5:00PM

WHITE COPY : Laboratory to return. YELLOW COPY : Laboratory PINK COPY : Submitter

MICROSEEPS

University of Pittsburgh Applied Research Center
220 William Pitt Way, Pittsburgh, PA 15238
(412) 826-5245
FAX (412) 826-3433

October 31, 2000

Ms. Michele Zych
Camp Dresser & McKee
18881 Von Karman
Suite 650
Irvine, CA 92612

Dear Ms. Zych:

Attached is the final data listing for the sample(s) we received on October 13, 2000, your project: PLAYA VISTA .

Please give me a call if you have questions or I can be of further assistance. Thank you for using Microseeps.

Sincerely,

Rebecca J. Hans

RJH/lsp

Attachment: CDM102-203827

Microseeps

CDM102-203827

----- CAMP DRESSER & MCKEE -----
---- LOCATION: (PLAYA VISTA) - LOS ANGELES, CA ----

Sample Names	Methane (%V)	Methane (PPMV)	Ethane (PPMV)	Ethylene (PPMV)	Propane (PPMV)	Propylene (PPMV)	Iso-Butane (PPMV)	N-Butane (PPMV)	Lab ID	Date Sampled	Date Received	Date Analyzed	Analyst
9051	*	2.05	0.20	0.14	0.09	0.11	< 0.03	< 0.03	T39 251	10/12/00	10/13/00	10/27/00	MM
9038	*	3.89	0.20	0.21	0.07	0.13	< 0.03	< 0.03	T39 252	10/12/00	10/13/00	10/27/00	MM
9036	*	4.72	0.32	0.24	0.10	0.16	< 0.03	< 0.03	T39 253	10/12/00	10/13/00	10/27/00	MM
9044	*	3.40	0.14	0.12	0.05	0.11	< 0.03	< 0.03	T39 254	10/12/00	10/13/00	10/27/00	MM
9042	*	2.01	0.28	0.21	0.12	0.17	< 0.03	< 0.03	T39 255	10/12/00	10/13/00	10/27/00	MM
9054	*	1.29	0.12	0.07	0.05	0.09	< 0.03	< 0.03	T39 256	10/12/00	10/13/00	10/27/00	MM
9048	*	2.67	0.18	0.05	0.10	0.08	0.05	0.06	T39 257	10/12/00	10/13/00	10/27/00	MM
9040	*	69.6	0.38	0.30	0.26	0.24	0.11	0.11	T39 258	10/12/00	10/13/00	10/27/00	MM
9050	*	168	0.37	0.19	0.16	0.22	0.04	0.06	T39 259	10/12/00	10/13/00	10/27/00	MM
9055	0.05	*	1.66	0.06	0.14	0.05	0.25	0.07	T39 260	10/12/00	10/13/00	10/27/00	MM
9053	*	1.98	0.09	0.04	0.05	< 0.03	< 0.03	< 0.03	T39 261	10/12/00	10/13/00	10/27/00	MM
9052	*	1.20	0.08	0.06	0.03	0.04	< 0.03	< 0.03	T39 262	10/12/00	10/13/00	10/27/00	MM
9049	*	2.70	0.22	0.15	0.08	0.10	< 0.03	< 0.03	T39 263	10/12/00	10/13/00	10/27/00	MM
DETECTION LIMITS	0.02	0.04	0.01	0.01	0.03	0.03	0.03	0.03					

* METHANE RESULT TAKEN FROM ALTERNATE DETECTOR

ANALYST

REVIEW

Microseeps

***** QUALITY CONTROL *****

CDM102-203827

----- CAMP DRESSER & MCKEE -----
---- LOCATION: (PLAYA VISTA) - LOS ANGELES, CA ----

CONTINUING CALIBRATION STANDARDS 10/27/00

COMPOUND	FILE ID	TRUE CONC.	MEASURED	% DIFF.
METHANE (FID)	T39 228	30.00	31.80	6.00
ETHANE	T39 228	10.00	9.84	1.60
ETHYLENE	T39 228	10.00	9.79	2.15
PROPANE	T39 228	10.00	9.79	2.10
PROPYLENE	T39 228	10.00	9.80	2.00
ISO-BUTANE	T39 228	10.00	10.26	2.60
N-BUTANE	T39 228	10.00	10.65	6.50

HE IN LOOP 10/27/00

COMPOUND	FILE ID	DET. LIMIT	MEASURED
METHANE (FID)	T39 230	0.04 PPMV	ND
ETHANE	T39 230	0.01 PPMV	ND
ETHYLENE	T39 230	0.01 PPMV	ND
PROPANE	T39 230	0.03 PPMV	ND
PROPYLENE	T39 230	0.03 PPMV	ND
ISO-BUTANE	T39 230	0.03 PPMV	ND
N-BUTANE	T39 230	0.03 PPMV	ND

ANALYST INITIALS nl.

REVIEW

Microseeps

CDM102 -203827

----- CAMP DRESSER & MCKEE -----
----- Location: PLAYA VISTA -----
----- Concentrations in PPMV -----

Sample ID	Benzene	Toluene	Ethyl Benzene	M/P Xylene	Ortho Xylene	Lab ID	Date Sampled	Date Received	Date Analyzed	Analyst
9038	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A197	10/12/00	10/13/00	10/19/00	JLL
9040	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A198	10/12/00	10/13/00	10/19/00	JLL
9042	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A199	10/12/00	10/13/00	10/19/00	JLL
9036	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A200	10/12/00	10/13/00	10/19/00	JLL
9050	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A204	10/12/00	10/13/00	10/20/00	JLL
9051	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A205	10/12/00	10/13/00	10/20/00	JLL
9049	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A206	10/12/00	10/13/00	10/20/00	JLL
9048	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A207	10/12/00	10/13/00	10/20/00	JLL
9052	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A208	10/12/00	10/13/00	10/20/00	JLL
9053	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A209	10/12/00	10/13/00	10/20/00	JLL
9054	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A210	10/12/00	10/13/00	10/20/00	JLL
9055	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A211	10/12/00	10/13/00	10/20/00	JLL
9044	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A212	10/12/00	10/13/00	10/20/00	JLL
DetectionLimits	0.07	0.07	0.07	0.07	0.07					

10/23/00

Analyst JLL

Reviewed

Microseeps

***** Quality Control *****

CDM102-203827

----- Camp Dresser & McKee -----
----- Location: Playavista -----
----- Concentrations in PPMV -----

Continuing Calibration Standards 10/19/00

Compound	Lab ID	True Conc.	Measured	% Diff.
Benzene	W100A179	1.25	1.25	0.00
Toluene	W100A179	1.06	1.08	1.89
Ethyl Benzene	W100A179	0.92	0.95	3.26
M/P Xylene	W100A179	1.84	1.92	4.35
Ortho Xylene	W100A179	0.92	0.96	4.35

N2 in vial 10/19/00

Compound	Lab ID	Report. Limit (ppmv)	Measured
Benzene	W100A180	0.07	ND
Toluene	W100A180	0.07	ND
Ethyl Benzene	W100A180	0.07	ND
M/P Xylene	W100A180	0.07	ND
Ortho Xylene	W100A180	0.07	ND

Continuing Calibration Standards 10/20/00

Compound	Lab ID	True Conc.	Measured	% Diff.
Benzene	W100A202	1.25	1.23	1.60
Toluene	W100A202	1.06	1.05	0.94
Ethyl Benzene	W100A202	0.92	0.91	1.09
M/P Xylene	W100A202	1.84	1.86	1.09
Ortho Xylene	W100A202	0.92	0.91	1.09

N2 in vial 10/20/00

Compound	Lab ID	Report. Limit (ppmv)	Measured
Benzene	W100A203	0.07	ND
Toluene	W100A203	0.07	ND
Ethyl Benzene	W100A203	0.07	ND
M/P Xylene	W100A203	0.07	ND
Ortho Xylene	W100A203	0.07	ND

Analyst JLL/mAm

Reviewed

MICROSEEPS, Inc.

220 William Pitt Way, Pittsburgh, PA 15238

Phone: (412) 826-5245 Fax: (412) 826-3433

20302 1/COM 102

1 of 3

CHAIN-OF-CUSTODY RECORD

Company Name: PLAYA VISTA

Address: 12555 W JEFFERSON

Proj. Manager: NERSCHAT

Proj. Location: LA CA 90066

Proj. Number:

Phone # : Fax # :

Sampler's signature:

Note: Enter proper letters in Requested Analyses columns below.

Note: If analysis D,E,or K is selected, scratch (option) NOT wanted.

Analysis Options

*A	C1 -C4	G	Chlorinated HC
* B	Hydrogen & Helium	H	BTEX
* C	Permanent Gases (CH4, CO, CO2, N2, O2)	J	BTEX & C5 - C10
D	Mercury (Soil) or (Air **)	K	TPH (C5 - C10) or (C4 -C12)
E	TO-14 by GC/MS (Ambient) or (Source **)	L	C11 - C18
F	601 & 602 Compounds	Other	Specify below.

* An additional 22 ml vial of sample is required when requested in combination with another analysis.

** Available upon request.

Collection Date	Collection Time	Number of Containers	"Summa" # if Can. used	Sample Matrix Type	Sample Identification	Requested Analyses	(Other)	Remarks
10-12	1005	1			9036	A		✓
	1010	1			9036	H		✓
	1020	1			9038 ✓	A		✓
	1025	1			9038 ✓	H		✓
	1035	1			9040 ✓	A		✓
	1040	1			9040 ✓	H		✓
	1055	1			9042 ✓	A		NOT LABELED *
	1100	1			9042 ✓	H		NOT LABELED *
	1100	1			9044 ✓	A		✓
	1105	1			9044 ✓	H		✓
	1110	1			9050 ✓	A		NOT LABELED *
	1115	1			9050 ✓	H		NOT LABELED *

Results to :

Invoice to :

	Company :	Date :	Time :		Company :	Date :	Time :
Relinquished by :	ETS	10/12	2:30P	Received by :	COM	10/12/a	2:35
Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date : 10-13	Time : 11:00
Relinquished by :	Company : COM	Date : 10/12/a	Time : 3:00	Received by : Fed Ex	Company :	Date :	Time :

WHITE COPY : Laboratory to return. YELLOW COPY : Laboratory PINK COPY : Submitter

20302 1/ COM 10 — 2 of 3

MICROSEEPS, Inc.

220 William Pitt Way, Pittsburgh, PA 15238

Phone: (412) 826-5245 Fax: (412) 826-3433

CHAIN-OF-CUSTODY RECORD

Company Name: PLAYA VISTA
Address: 12555 W JEFFERSON
Proj. Manager: MERSCHAT
Proj. Location: LA CA 90066
Proj. Number:
Phone # : Fax # :

Sampler's signature : [signature]

Note: Enter proper letters in Requested Analyses columns below.
Note: If analysis D,E,or K is selected, scratch (option) NOT wanted.

Analysis Options

* (A)	C1 -C4	G	Chlorinated HC
* B	Hydrogen & Helium	(H)	BTEX
* C	Permanent Gases (CH4, CO, CO2, N2, O2)	J	BTEX & C5 - C10
D	Mercury (Soil) or (Air **)	K	TPH (C5 - C10) or (C4 -C12)
E	TO-14 by GC/MS (Ambient) or (Source **)	L	C11 - C18
F	601 & 602 Compounds	Other	Specify below.

* An additional 22 ml vial of sample is required when requested in combination with another analysis.
** Available upon request.

Collection Date	Collection Time	Number of Containers	"Summa" # if Can. used	Sample Type (SOIL GAS)	Sample Identification	Requested Analyses					(Other)	Remarks
10-12	1125	1			9051 ✓	A						✓
	1130	1			9051 ✓	H						✓
	1140	1			9049 ✓	A						✓
	1145	1			9049 ✓	H						✓
	1155	1			9048 ✓	A						✓
	NOON	1			9048 ✓	H						✓
	125	1			9052 ✓	A						✓
	130	1			9052 ✓	H						✓
	135	1			9053 ✓	A						✓
	140	1			9053 ✓	H						✓
	155	1			9054 ✓	A						✓
↓	200	1		↓	9054 ✓	H						✓

Results to : Invoice to :

Relinquished by : [signature]	Company : ETI	Date : 10-12	Time : 2300	Received by : [signature]	Company : COM	Date : 10/12	Time : 2:35
Relinquished by :	Company :	Date :	Time :	Received by : [signature]	Company : —	Date : 10-13	Time : 11:00
Relinquished by : [signature]	Company : COM	Date : 10/12/06	Time : 3:00	Received by : Fed EX	Company :	Date :	Time :

WHITE COPY : Laboratory to return. YELLOW COPY : Laboratory PINK COPY : Submitter

MICROSEEPS, Inc.

220 William Pitt Way, Pittsburgh, PA 15238

Phone: (412) 826-5245 Fax: (412) 826-3433

203827 / COM 102

CHAIN-OF-CUSTODY RECORD

Company Name: PLATA VISTA

Address: 12555 W JEFFERSON

Proj. Manager: MERSCHAT

Proj. Location: LA CA 90066

Proj. Number:

Phone # : Fax # :

Sampler's signature:

Note: Enter proper letters in Requested Analyses columns below.

Note: If analysis D,E,or K is selected, scratch (option) NOT wanted.

Analysis Options

*A	C1 -C4	G	Chlorinated HC
*B	Hydrogen & Helium	H	BTEX
*C	Permanent Gases (CH4, CO, CO2, N2, O2)	J	BTEX & C5 - C10
D	Mercury (Soil) or (Air **)	K	TPH (C5 - C10) or (C4 -C12)
E	TO-14 by GC/MS (Ambient) or (Source **)	L	C11 - C18
F	601 & 602 Compounds	Other	Specify below.

* An additional 22 ml vial of sample is required when requested in combination with another analysis.

** Available upon request.

Collection Date	Collection Time	Number of Containers	"Summa" # if Can. used	Sample Matrix	Sample Identification	Requested Analyses (Other)	Remarks
10-12	200	1		"	9055 ✓	A	
10-12	210	1		"	9055 ✓	H	

Results to :

Invoice to :

Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :
	STI	10-12	230p		COM	10/12/10	2.35
Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :
					—	10-13	11[illegible]
Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :
	COM	10/12/10	3.0	Fed Ex			

WHITE COPY : Laboratory to return. YELLOW COPY : Laboratory PINK COPY : Submitter

MICROSEEPS

University of Pittsburgh Applied Research Center
220 William Pitt Way, Pittsburgh, PA 15238
(412) 826-5245
FAX (412) 826-3433

October 31, 2000

Ms. Michele Zych
Camp Dresser & McKee
18881 Von Karman
Suite 650
Irvine, CA 92612

Dear Ms. Zych:

Attached is the final data listing for the sample(s) we received on October 11, 2000, your project: PLAYA VISTA .

Please give me a call if you have questions or I can be of further assistance. Thank you for using Microseeps.

Sincerely,

Rebecca J. Hans

RJH/lsp

Attachment: CDM100-203808

Microseeps

CDM100-203808

----- CAMP DRESSER & MCKEE -----
----- LOCATION: (PLAYA VISTA) - LOS ANGELES, CA -----

Sample Names	Methane (%V)	Methane (PPMV)	Ethane (PPMV)	Ethylene (PPMV)	Propane (PPMV)	Propylene (PPMV)	Iso-Butane (PPMV)	N-Butane (PPMV)	Lab ID	Date Sampled	Date Received	Date Analyzed	Analyst
7032	*	2.14	0.06	0.05	<0.03	<0.03	<0.03	<0.03	T39 149	10/10/00	10/11/00	10/25/00	MM
9004	1.82	*	96.4	0.22	2.12	<0.03	0.45	0.19	T39 150	10/10/00	10/11/00	10/25/00	MM
9027	*	3.62	0.18	0.07	0.07	0.07	0.04	0.04	T39 151	10/10/00	10/11/00	10/25/00	MM
9023	*	3.29	0.15	0.11	0.06	0.05	<0.03	<0.03	T39 152	10/10/00	10/11/00	10/25/00	MM
9020	0.48	*	0.59	0.35	0.59	0.25	0.15	0.21	T39 153	10/10/00	10/11/00	10/25/00	MM
7036	*	5.52	0.03	0.03	<0.03	<0.03	<0.03	<0.03	T39 154	10/10/00	10/11/00	10/25/00	MM
9012	*	6.31	0.60	0.76	0.22	0.57	<0.03	0.07	T39 155	10/10/00	10/11/00	10/25/00	MM
9008	*	64.24	0.55	0.30	0.22	0.23	0.05	0.08	T39 156	10/10/00	10/11/00	10/25/00	MM
9015	*	2.86	0.19	0.15	0.07	0.11	<0.03	<0.03	T39 157	10/10/00	10/11/00	10/25/00	MM
9011	15.99	*	709.9	< 0.01	1.88	0.12	0.60	0.65	T39 158	10/10/00	10/11/00	10/25/00	MM
9024	0.41	*	0.61	0.33	0.47	0.24	0.10	0.16	T39 159	10/10/00	10/11/00	10/25/00	MM
9019	*	2.06	0.06	0.05	<0.03	<0.03	<0.03	<0.03	T39 160	10/10/00	10/11/00	10/25/00	MM
7033	*	11.12	0.04	0.02	<0.03	<0.03	<0.03	<0.03	T39 161	10/10/00	10/11/00	10/25/00	MM
9003	5.43	*	249.5	0.18	1.30	0.28	0.63	0.47	T39 162	10/10/00	10/11/00	10/25/00	MM
9016	*	409.2	0.31	0.19	0.20	0.15	0.06	0.07	T39 163	10/10/00	10/11/00	10/25/00	MM
9007	1.82	*	210.3	0.18	0.26	0.15	0.28	0.12	T39 164	10/10/00	10/11/00	10/25/00	MM
7026	*	8.63	0.10	0.07	0.04	0.05	<0.03	<0.03	T39 165	10/10/00	10/11/00	10/25/00	MM
9031	*	2.45	0.10	0.10	0.04	0.06	<0.03	<0.03	T39 166	10/10/00	10/11/00	10/25/00	MM
DETECTION LIMITS	0.02	0.04	0.01	0.01	0.03	0.03	0.03	0.03					

* METHANE RESULT TAKEN FROM ALTERNATE DETECTOR

ANALYST

REVIEW

Microseeps

CDM100-203808

***** QUALITY CONTROL *****

----- CAMP DRESSER & MCKEE -----
----- LOCATION: (PLAYA VISTA) - LOS ANGELES, CA -----

CONTINUING CALIBRATION STANDARDS 10/25/00

COMPOUND	FILE ID	TRUE CONC.	MEASURED	% DIFF.
METHANE (FID)	T39 120	30.00	30.86	2.87
ETHANE	T39 120	10.00	9.42	5.80
ETHYLENE	T39 120	10.00	9.32	6.80
PROPANE	T39 120	10.00	9.30	7.00
PROPYLENE	T39 120	10.00	9.17	8.30
ISO-BUTANE	T39 120	10.00	9.63	3.70
N-BUTANE	T39 120	10.00	9.77	2.30

HE IN LOOP 10/25/00

COMPOUND	FILE ID	DET. LIMIT	MEASURED
METHANE (FID)	T39 122	0.04 PPMV	ND
ETHANE	T39 122	0.01 PPMV	ND
ETHYLENE	T39 122	0.01 PPMV	ND
PROPANE	T39 122	0.03 PPMV	ND
PROPYLENE	T39 122	0.03 PPMV	ND
ISO-BUTANE	T39 122	0.03 PPMV	ND
N-BUTANE	T39 122	0.03 PPMV	ND

ANALYST INITIALS

REVIEW

Microseeps

CDM100 -203808

----- CAMP DRESSER & MCKEE -----
----- Location: PLAYA VISTA -----
----- Concentrations in PPMV -----

Sample ID	Benzene	Toluene	Ethyl Benzene	M/P Xylene	Ortho Xylene	Lab ID	Date Sampled	Date Received	Date Analyzed	Analyst
7032	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A145	10/10/00	10/11/00	10/17/00	JLL
9004	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A146	10/10/00	10/11/00	10/17/00	JLL
9027	< 0.07	< 0.07	0.35	< 0.07	< 0.07	W100A147	10/10/00	10/11/00	10/17/00	JLL
9023	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A148	10/10/00	10/11/00	10/17/00	JLL
9020	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A149	10/10/00	10/11/00	10/17/00	JLL
7036	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A150	10/10/00	10/11/00	10/17/00	JLL
9012	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A151	10/10/00	10/11/00	10/17/00	JLL
9008	< 0.07	0.08	0.10	< 0.07	< 0.07	W100A152	10/10/00	10/11/00	10/17/00	JLL
9015	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A153	10/10/00	10/11/00	10/17/00	JLL
9011	< 0.07	< 0.07	< 0.07	0.09	< 0.07	W100A154	10/10/00	10/11/00	10/17/00	JLL
9024	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A159	10/10/00	10/11/00	10/18/00	JLL
9019	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A160	10/10/00	10/11/00	10/18/00	JLL
7033	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A161	10/10/00	10/11/00	10/18/00	JLL
9003	< 0.07	0.30	< 0.07	< 0.07	< 0.07	W100A162	10/10/00	10/11/00	10/18/00	JLL
9016	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A163	10/10/00	10/11/00	10/18/00	JLL
9007	< 0.07	0.14	< 0.07	< 0.07	< 0.07	W100A164	10/10/00	10/11/00	10/18/00	JLL
7026	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A165	10/10/00	10/11/00	10/18/00	JLL
9031	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A169	10/10/00	10/11/00	10/18/00	JLL
Detection Limits	0.07	0.07	0.07	0.07	0.07					

10/20/00

Analyst JLL

Reviewed

Microseeps

Quality Control

CDM100 -203808

----- CAMP DRESSER & MCKEE -----
----- Location: PLAYA VISTA -----
----- Concentrations in PPMV -----

Continuing Calibration Standards 10/17/00

Compound	Lab ID	True Conc.	Measured	% Diff.
Benzene	W100A134	1.25	1.32	5.60
Toluene	W100A134	1.06	1.08	1.89
Ethyl Benzene	W100A134	0.92	0.94	2.17
M/P Xylene	W100A134	1.84	1.90	3.26
Ortho Xylene	W100A134	0.92	0.94	2.17

N2 in vial 10/17/00

Compound	Lab ID	Report. Limit (ppmv)	Measured
Benzene	W100A135	0.07	ND
Toluene	W100A135	0.07	ND
Ethyl Benzene	W100A135	0.07	ND
M/P Xylene	W100A135	0.07	ND
Ortho Xylene	W100A135	0.07	ND

Continuing Calibration Standards 10/18/00

Compound	Lab ID	True Conc.	Measured	% Diff.
Benzene	W100A157	1.25	1.19	4.80
Toluene	W100A157	1.06	1.03	2.83
Ethyl Benzene	W100A157	0.92	0.92	0.00
M/P Xylene	W100A157	1.84	1.83	0.54
Ortho Xylene	W100A157	0.92	0.91	1.09

N2 in vial 10/18/00

Compound	Lab ID	Report. Limit (ppmv)	Measured
Benzene	W100A158	0.07	ND
Toluene	W100A158	0.07	ND
Ethyl Benzene	W100A158	0.07	ND
M/P Xylene	W100A158	0.07	ND
Ortho Xylene	W100A158	0.07	ND

Analyst JLL/mkm

Reviewed

MICROSEEPS, Inc.

220 William Pitt Way, Pittsburgh, PA 15238

Phone: (412) 826-5245 Fax: (412) 826-3433

203808-CDM100 1 of 4

CHAIN-OF-CUSTODY RECORD

Company Name: PUNTA VISTA

Address: 12555 W JEFFERSON

Proj. Manager: MARSCHAT

Proj. Location: LA CA 90066

Proj. Number:

Phone # : Fax # :

Sampler's signature:

Note: Enter proper letters in Requested Analyses columns below.

Note: If analysis D,E,or K is selected, scratch (option) NOT wanted.

Analysis Options

*A	C1 -C4	G	Chlorinated HC
*B	Hydrogen & Helium	H	BTEX
*C	Permanent Gases (CH4, CO, CO2, N2, O2)	J	BTEX & C5 - C10
D	Mercury (Soil) or (Air **)	K	TPH (C5 - C10) or (C4 -C12)
E	TO-14 by GC/MS (Ambient) or (Source **)	L	C11 - C18
F	601 & 602 Compounds	Other	Specify below.

* An additional 22 ml vial of sample is required when requested in combination with another analysis.

** Available upon request.

Collection Date	Collection Time	Number of Containers	"Summa" # if Can. used	Sample Type	Sample Identification	Requested Analyses	Remarks
10-10	915	1			7032 ✓	A	
	920	1			7032 ✓	H	
	930	1			7033 ✓	A	
	935	1			7033 ✓	H	
	1035	1			7034	A	
	1040	1			7034	H	
	1000	1			7036 ✓	A	
	1005	1			7036	H	
	1015	1			7037	A	
	1020	1			7037	H	
	1100	1			7029	A	
	1110	1			7029	H	

Results to :

Invoice to :

Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :
	EAI	10-10	4:30P	James Fortuna	CDM	10/10/00	4:35pm
Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :
					Microseeps	10-11-00	1200
Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :
				Fedex	# 852029160193	10/10/00	4:55pm

WHITE COPY : Laboratory to return. YELLOW COPY : Laboratory PINK COPY : Submitter

Lot 4

MICROSEEPS, Inc.

220 William Pitt Way, Pittsburgh, PA 15238

Phone: (412) 826-5245 Fax: (412) 826-3433

CHAIN-OF-CUSTODY RECORD

Company Name: PLAYA VISTA

Address: 12555 W JEFFERSON

Proj. Manager: MERSCHAT

Proj. Location: LA CA 90066

Proj. Number:

Phone # : Fax # :

Sampler's signature:

Note: Enter proper letters in Requested Analyses columns below.

Note: If analysis D,E,or K is selected, scratch (option) NOT wanted.

Analysis Options

* A	C1 -C4	G	Chlorinated HC
* B	Hydrogen & Helium	H	BTEX
* C	Permanent Gases (CH4, CO, CO2, N2, O2)	I	BTEX & C5 - C10
D	Mercury (Soil) or (Air **)	K	TPH (C5 - C10) or (C4 -C12)
E	TO-14 by GC/MS (Ambient) or (Source **)	L	C11 - C18
F	601 & 602 Compounds	Other	Specify below.

* An additional 22 ml vial of sample is required when requested in combination with another analysis.

** Available upon request.

Collection Date	Collection Time	Number of Containers	"Summa" # if Can. used	Sample Type	Sample Identification	Requested Analyses	(Other)	Remarks
10-10	1120	1		SOIL GAS	7030	A		
	1130	1			7030	H		
	1135	1			7026	A		
	NOON	1			7026	H		
	150	1			9003	A		
	155	1			9003	H		
	200	1			9004	A		
	205	1			9004	H		
	205	1			9007	A		
	210	1			9007	H		
	220	1			9008	A		
	225	1			9008	H		

Results to :

Invoice to :

Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :
	EFT	10-10	4:30P	James Fortuna	CDM	10/10/00	4:35p.m
Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :
					Microseeps	10-11-00	1200
Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :
				Fedex	# 8220 2960 0193	10/10/00	4:35PM

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MICROSEEPS, Inc.

220 William Pitt Way, Pittsburgh, PA 15238

Phone: (412) 826-5245 Fax: (412) 826-3433

CHAIN-OF-CUSTODY RECORD

Company Name: PLAYA VISTA

Address: 12555 W JEFFERSON

Proj. Manager: MERSCHAT

Proj. Location: LA CA 90066

Proj. Number:

Phone # : Fax # :

Sampler's signature:

Note: Enter proper letters in Requested Analyses columns below.

Note: If analysis D,E,or K is selected, scratch (option) NOT wanted.

Analysis Options

*A	C1 -C4	G	Chlorinated HC
*B	Hydrogen & Helium	H	BTEX
*C	Permanent Gases (CH4, CO, CO2, N2, O2)	J	BTEX & C5 - C10
D	Mercury (Soil) or (Air **)	K	TPH (C5 - C10) or (C4 -C12)
E	TO-14 by GC/MS (Ambient) or (Source **)	L	C11 - C18
F	601 & 602 Compounds	Other	Specify below.

* An additional 22 ml vial of sample is required when requested in combination with another analysis.

** Available upon request.

Collection Date	Collection Time	Number of Containers	"Summa" # if Can. used	Sample Type (SOIL GAS)	Sample Identification	Requested Analyses					(Other)	Remarks
10-10	225	1			9011 ✓	A						
	230	1			9011 ✓	H						
	235	1			9012 ✓	A						
	240	1			9012 ✓	H						
	247	1			9015 ✓	A						
	249	1			9015 ✓	H						
	250	1			9016 ✓	A						
	255	1			9016 ✓	H						
	255	1			9019 ✓	A						
	300	1			9019 ✓	H						
	310	1			9020 ✓	A						
	315	1			9020 ✓	H						

Results to :

Invoice to :

Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :
	ETI	10-10	4:20P	James Fortuna	CDM	10/10/00	4:35pm
Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :
					Microseeps	10-11-00	1200
Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :
				Fedex	# 8220 21600193	10/10/00	4:55pm

WHITE COPY : Laboratory to return. YELLOW COPY : Laboratory PINK COPY : Submitter

MICROSEEPS, Inc.

220 William Pitt Way, Pittsburgh, PA 15238

Phone: (412) 826-5245 Fax: (412) 826-3433

CHAIN-OF-CUSTODY RECORD

Company Name: PUNTA VISTA

Address: 12555 (W) JEFFERSON

Proj. Manager: MERSCHAT

Proj. Location: LA CA 90066

Proj. Number:

Phone # : Fax # :

Sampler's signature:

Note: Enter proper letters in Requested Analyses columns below.

Note: If analysis D,E,or K is selected, scratch (option) NOT wanted.

Analysis Options

* A	C1 -C4	G	Chlorinated HC
* B	Hydrogen & Helium	H	BTEX
* C	Permanent Gases (CH4, CO, CO2, N2, O2)	J	BTEX & C5 - C10
D	Mercury (Soil) or (Air **)	K	TPH (C5 - C10) or (C4 -C12)
E	TO-14 by GC/MS (Ambient) or (Source **)	L	C11 - C18
F	601 & 602 Compounds	Other	Specify below.

* An additional 22 ml vial of sample is required when requested in combination with another analysis.

** Available upon request.

Collection Date	Collection Time	Number of Containers	"Summa" # if Can. used	Sample Type	Sample Identification	Requested Analyses	(Other)	Remarks
10/10	320	1		SOIL GAS	9023	A		
	325	1			9023	H		
	330	1			9024	A		
	335	1			9024	H		
	340	1			9027	A		
	345	1			9027	H		
	405	1			9031	A		
↓	410	1			9031	H		

Results to :

Invoice to :

Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :
	ETI	10 10	4:30P	James Fortuny	CDM	10/10/00	4:35pm
Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :
					Microseeps	10-11-00	1200
Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :
				Fedex	#8-2202960093	10/11/00	4:55 pm

WHITE COPY : Laboratory to return. YELLOW COPY : Laboratory PINK COPY : Submitter