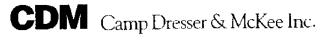
# **APPENDIX J-7:**

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



consulting engineering construction operations 18881 Von Karman Avenue, Suite 650 Irvine, California 92612 Tel: 949 752-5452 Fax: 949 752-1307

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 Port on) 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

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# **CDM** Camp Dresser & McKee Inc.

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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).

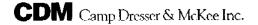
Prior to sample collection, a ½-inch outside diameter bar was used to drive a 4-foot deep hole at each of the sampling locations. The bar was removed and a 5-foot, ½-inch outside diameter, 1/8-inch inside diameter hollow stainless steel sampling probe was inserted into the hole, and the tip driven approximately 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 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.

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#### 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 Microsceps 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

		Light ny	yarocarbon	s in song g	ças summary				
Statistical	Light Hydrocarbon statistics [all measurements in parts per million per volume (ppmv)]								
Parameter	Methane	Ethane		Propane			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	Propa	ne	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 locatio	กร	111 locations	181 locations	173 locations
Maximum value	9011	9011	9029	9029	•	9014	9003	8010

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With the exception of methane and a few of the delections 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 Over102/PCC-LEW/militigation/Plays 2 soil gas-doc

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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.

Mackey Smith Vice President

Sincerely,

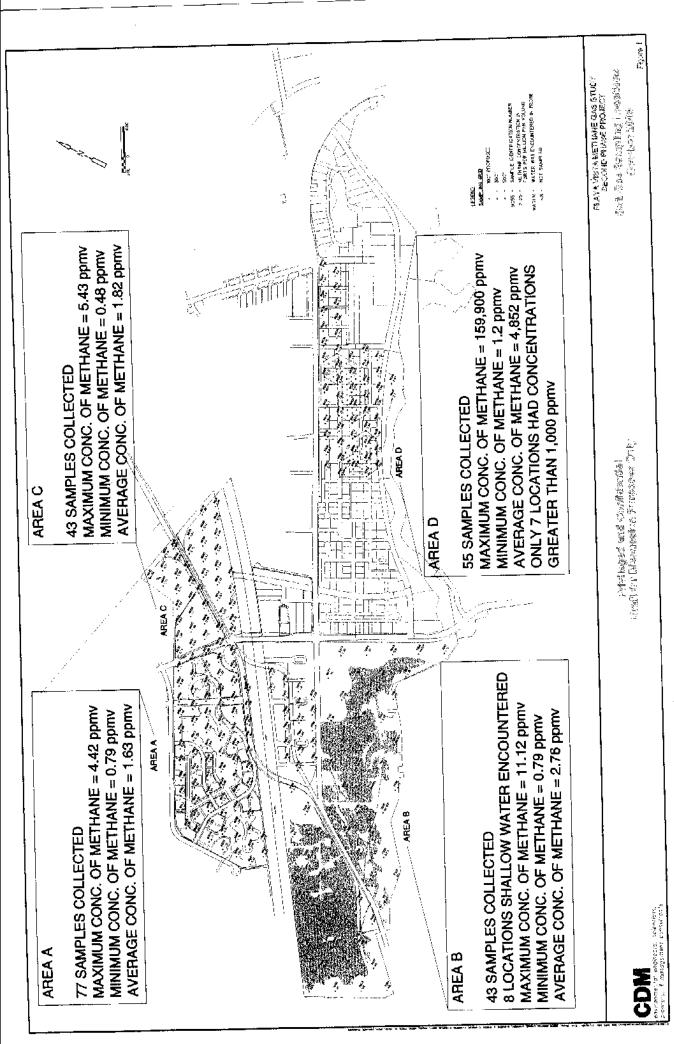
CAMPIDRESSER & MCKEE INC.

Michele Zyon, R. G. Project Manager

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

				•	ridoo z / iida	1			
Sample ID	Date Sampled	Methane % V	Methane ppmv	Ethane ppmv	Ethylene ppmv	Propane ppniv	Propylene ppmv	Isobutane ppmv	N-Butane ppmv
6001	10/02/00		4.42	0.09	Area A 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	80.0	0.09	0.01	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	0.0B	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.d3	< 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	0.08	< 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. <b>4</b> 3	< 0.03	< 0.03	< 0.03
6024	10/03/00	*	0.54	0.01	<0.01	<0. <b>¢</b> 3	< 0.03	< 0.03	< 0.03
6025	10/03/00	*	1.30	0.09	0.09	0.0\$	0.08	< 0.03	< 0.03
6026	10/03/00	*	1.36	0.06	0.04	0.0₿	<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.d3	<0.03	< 0.03	0.08
6029	10/03/00		2.85	0.06	0.08	0.0	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	80.0	0.06	0.03	0.05	<0.03	<0.03
6034	10/03/00	•	2.00	80.0	0.08	0.0	< 0.03	<0.03	<0.03
6035 6036	10/03/00	*	1.56	0.09	0.09	0.04	0.06	<0.03	<0.03
6037	10/03/00 10/03/00	4	1.44 1.48	0.07 0.09	0.07	0.03	< 0.03	<0.03	<0.03
6038	10/03/00		1.38	0.09	0.08 0.04	0.04 <0.03	0.07 <0.03	<0.03	<0.03
6039	10/03/00		1.88	0.02	0.04	0.03	0.06	<0.03 <0.03	<0.03 <0.03
6040	10/03/00		1.59	0.08	0.08	0.04	0.05	<0.03	<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	4	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	80.0	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	<0.08	<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	<0.08	0.05	< 0.03	< 0.03
6057	10/04/00	*	1.08	0.05	0.05	<0.08	< 0.03	< 0.03	< 0.03

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

8688					•					
8988 100-4400 - 1.07					Ethane	Ethylene	- 1	Propytene	Isobutane	N-Butane
6869	Sample ID		% V							
BORD		10/04/00	*				. 1		<0.03	<0.03
6961	6059	10/04/00							<0.03	< 0.03
1004/00   0.68	6060	10/04/00							< 0.03	<0.03
1004/00   2.238		10/04/00	*	1.20			<0. <b>0</b> 3		< 0.03	< 0.03
1004/00   1,120   0.05   0.0	6062	10/04/00	*	0.68	0.04	0.02	<0.∮3	< 0.03	< 0.03	< 0.03
1004/00   0.97   0.01   0.01   0.04   0.03	6063	10/04/00	*	2.38	0.13	0.19	0.06		< 0.03	<0.03
1004/00   0.97   0.01   0.01   0.04   0.03	6064	10/04/00	•	1.20	0.05	0.05	<0.03	< 0.03	< 0.03	< 0.03
1004/00   1,24   0,06   0,05   0,06   0,03	6065	10/04/00	•			0.01	<0.03			< 0.03
1004100	6066	10/04/00	*			0.05	<0.03			
100400	6067	10/04/00	+			0.04				
100400	6068	10/04/00	*	1.10			<0.∳3	< 0.03		
10/04/00   1.0/04/00   1.122   0.66   0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03	6069	10/04/00	*	2.51	0.27	0.27		0.19		
1004/00   1.22   0.06   0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03	6070	10/04/00	<del>-</del>			0.04				
1004/00   1.08	6071		•							
10/04/00			*							
10/04/00										
10/04/00			•							
10/04/00   1.95			*							
1,74			*							
Area B			•							
70286	0077	10/0-100		1.7 4			0.00	30.00	<b>VO.00</b>	₹0.00
7031	7026	10/10/00	•	8 63			O ON	0.05	-0.03	0.10
7032										
10/10/00   11.12   0.04   0.02   0.03   0.							1			
7035										
10/10/00   10/10/00   10/10/00   10/10/00   10/10/00   10/10/10/00   10/10/10/00   10/10/10/00   10/10/10/10/10/10/10/10/10/10/10/10/10/1										
10009/00   2.22   0.01   0.01   0.03   0.03   0.03   0.08   0.04   10/09/00   2.32   0.03   0.01   0.03   0.03   0.03   0.08   0.04   10/09/00   2.32   0.03   0.01   0.03   0.03   0.03   0.03   0.05   0.04   0.03   0.03   0.03   0.05   0.04   0.03   0.03   0.03   0.05   0.04   0.03   0.03   0.03   0.05   0.03   0.05   0.03   0.03   0.03   0.03   0.03   0.03   0.03   0.03   0.04   0.04   0.03   0.										
7041										
17042								<0.03		
10/09/00   1.87   0.02   0.01   0.03   0.03   0.03   0.03   0.04										
7045         10/09/00         * 5.39         0.05         0.03         <0.03										
10/09/00   2.82   0.03   0.02   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.04   <0.03   <0.03   <0.03   <0.04   <0.03   <0.03   <0.03   <0.04   <0.03   <0.03   <0.03   <0.04   <0.03   <0.03   <0.03   <0.04   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.04   <0.04   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.0										
100   100										
10/09/00   3.09   0.09   0.02   <0.03   <0.03   <0.03   0.07   <0.049   10/09/00   2.293   0.18   0.03   0.06   <0.03   <0.03   <0.03   0.12   <0.05   10/09/00   <0.91   0.02   <0.01   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.										
10/09/00										
10/09/00										
10/09/00   2.36   0.04   0.02   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.03   <0.0										
7052         10/09/00         *         2.28         0.08         <0.01         0.08         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.0										
7053         10/07/00         *         1.38         0.02         0.01         <0.d3										
1007/00							- 1			
7055										
7057         10/07/00         1.72         0.03         0.01         <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         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03         <0.03 <td></td> <td></td> <td>_</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>			_							
7059         10/07/00         1.71         0.05         0.04         < 0.03         < 0.03         < 0.03         < 0.03         < 0.03         < 0.03         < 0.03         < 0.03         < 0.03         < 0.03         < 0.03         < 0.03         < 0.03         < 0.03         < 0.03         < 0.03         < 0.03         < 0.03         < 0.03         < 0.03         < 0.03         < 0.03         < 0.03         < 0.03         < 0.03         < 0.03         < 0.03         < 0.03         < 0.03         < 0.03         < 0.03         < 0.03         < 0.03         < 0.03         < 0.03         < 0.03         < 0.03         < 0.03         < 0.03         < 0.03         < 0.03         < 0.03         < 0.03         < 0.03         < 0.03         < 0.03         < 0.03         < 0.03         < 0.03         < 0.03         < 0.03         < 0.03         < 0.03         < 0.03         < 0.03         < 0.03         < 0.03         < 0.03         < 0.03         < 0.03         < 0.03         < 0.03         < 0.03         < 0.03         < 0.03         < 0.03         < 0.03         < 0.03         < 0.03         < 0.03         < 0.03         < 0.03         < 0.03         < 0.03         < 0.03         < 0.03         < 0.03         < 0.03         < 0.03         < 0.03			_							
7060         10/6/00         1.80         0.03         < 0.01			_				.1		0.14	<0.03
1060										
7062         10/07/00         1.87         0.08         0.04         <0.03										
7063         10/6/00         *         2.60         0.14         0.07         0.0\$         0.04         < 0.03										
7064         10/6/00         1.44         0.06         0.02         < 0.03			*							
10/65			•							
7066         10/6/00         *         3.50         0.24         0.08         0.09         0.07         0.03         <0.03	7064									
10/6/00	7065		*				1			
7068     10/07/00     1.92     0.03     0.02     <0.03	7066		*							< 0.03
10/6/00	7067	10/6/00	•	5.65	0.27	0.12		0.09	< 0.03	< 0.03
070 10/6/00 * 1.40 0.09 0.07 0.03 0.05 < 0.03 <0.03 0.01 10/07/00 * 2.13 0.04 0.01 <0.03 <0.03 <0.03 <0.03	7068	10/07/00	•	1.92	0.03	0.02	<0.0 3	<0.03	< 0.03	< 0.03
070 10/6/00 * 1.40 0.09 0.07 0.0\$ 0.05 < 0.03 <0.03 071 10/07/00 * 2.13 0.04 0.01 <0.0\$ <0.03 <0.03 <0.03	7069	10/6/00	•	2.24	0.01	0.01	< 0.∮3	< 0.03	< 0.03	<0.03
'071 10/07/00 * 2.13 0.04 0.01 <0.0 <mark>8 &lt;0.03 &lt;0.03 &lt;0.03</mark>	7070	10/6/00	•	1.40	0.09	0.07	0.03	0.05		< 0.03
	7071	10/07/00	•	2.13	0.04	0.01	<0.03			
	7072		*							

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

	Date	Methane	Methane	Ethane	Ethylene	Propane	Propylene	Isobutane	N-Butane
Sample ID	Sampled	% V *	ppmv	ppmv	ppmv	ppmv	ppmv	ppmv	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	0.0#	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
0004	10/05/00		0.64	0.01	trea C 0.02	<0.03	< 0.03	<0.03	.0.00
8001	10/05/00 10/05/00	*	0.64			<0.03			< 0.03
8002	10/05/00	*	1.15 1.56	0.04 0.06	0.02 0.03	<0.03	<0.03 <0.03	<0.03 <0.03	0.08 0.07
8003 8004	10/05/00		0.48	<0.06 <0.01	<0.03	<0.03	<0.03	<0.03	
8005			0.48	0.06	0.04	< 0.03	<0.03	<0.03	< 0.03
	10/05/00	-				<0.03	<0.03		<0.03
8006	10/05/00		1.10	0.03	0.02 0.18	1		<0.03	< 0.03
8007	10/6/00		2.37	0.12 0.40	0.16	0.05 0.17	0.12 0.45	< 0.03	<0.03
8008	10/6/00		5.32		<0.01	- 1		< 0.03	<0.03
8009	10/05/00	*	0.84	<0.01	0.04	<0.03	<0.03	<0.03	< 0.03
8010	10/05/00	*	0.66	0.06 0.06	0.04	<0. <b>d</b> 3 < 0. <b>0</b> 3	< 0.03	<0.03	0.71
8011 8012	10/6/00	•	1.13 1.89	0.06 0.14	0.03	< 0.43 0.05	< 0.03 0.10	< 0.03 <0.03	<0.03 <0.03
	10/05/00								
8013 8014	10/6/00		1.85 2.87	0.13 0.20	0.04 0.04	0.0 <b>4</b> 0.07	< 0.03 < 0.03	< 0.03 < 0.03	<0.03 <0.03
	10/6/00					<0.03	< 0.03		
8015	10/05/00		1.53	0.05	0.02	- 1		< 0.03	< 0.03
8016 8017	10/05/00 10/6/00	*	0.90 2.09	0.02 0.09	0.01 0.03	<0.03 < 0.03	< 0.03 < 0.03	<0.03 < 0.03	<0.03 <0.03
8018		•	2.09	0.09	0.03	0.04	< 0.03 0.05	< 0.03	
	10/6/00					4			<0.03
8019	10/6/00		0.93	0.03	0.01	< 0.03	< 0.03	< 0.03	< 0.03
8020 8021	10/6/00	±	4.30	0.06	0.03 0.03	< 0.03	< 0.03 < 0.03	< 0.03 < 0.03	<0.03
8022	10/6/00 10/6/00		1.64 5.43	0.04 0.59	0.82	< 0.03 0.27	0.66	< 0.03	<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	0.03	0.02	< 0.03	0.03	< 0.03	<0.03
8025	10/6/00	*	3.50	0.08	0.03	0.05	0.03	< 0.03	< 0.03
8026	10/05/00		1.07	0.18	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	0.03	0.04	0.05	0.05	< 0.03	< 0.03
8029	10/6/00		2.79	0.13	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	0.03	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
	. 5105100				rea D		-0.00		. 5.03
9002	10/11/00	•	2.34	0.12	0.11	0.04	0.10	< 0.03	< 0.03
9003	10/11/00	5.43		249.54	0.18	1.30	0.10	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
JUU/	10/10/00	1.02		210.20	V. 10	V.24	0.10	0.20	× v.u.)

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

	Date	Methane	Methane	Ethane	Ethylene	Propane	Propylene	Isobutane	N-Butane
Sample ID	Sampled	% V	ppmv	ppmv	ppmv	ppmv	ppmv	ppmv	pomv
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	0.23	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	0.26	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	0.2 <b>b</b>	0.15	0.06	< 0.03
9017	10/11/00	•	35.2	0.54	0.33	0.2 1	0.24	0.04	0.06
9018	10/11/00	*	9.37	0.50	0.12	0.2 7	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	0.08	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	2.3b	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	10/12/00	•	4.61	0.34	0.23	0.09	0.16	< 0.03	0.04
9038	10/11/00	•	3.89	0.20	0.21	0.07	0.13	< 0.03	< 0.03
9039	10/12/00		7.68	0.54	0.23	0.15	0.21	0.04	0.06
9039 9040	10/11/00		69.6	0.34	0.30	0.15	0.24	0.11	0.11
9040 9041	10/12/00		20.3	0.23	0.30	0.2B 0.0B	0.12	<0.03	<0.03
9041 9042	10/11/00	*	20.3	0.23	0.21	0.08	0.12	< 0.03	< 0.03
			2.01 4.49	0.28	0.16	0.09	0.17	< 0.03 < 0.03	< 0.03
9043	10/11/00	-		0.24	0.16	0.05	0.11	< 0.03	< 0.03
9044	10/12/00	-	3.40			0.08	0.06	0.06	< 0.03
9045	10/11/00		2.85	0.12	0.06			< 0.03	<0.03
9046	10/11/00		1.80	0.15	0.22	0.07	0.17		
9047	10/11/00	•	1.21	0.14	0.10	0.0#	0.09	<0.03	<0.03
0048	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	0.0B	0.10	< 0.03	< 0.03
9050	10/12/00	•	168	0.37	0.19	0.16	0.22	0.04	0.06
9051	10/12/00	•	2.05	0.20	0.14	0.0	0.11	< 0.03	< 0.03
9052	10/12/00	•	1.20	0.08	0.06	0.0 <b>B</b>	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	0.1#	0.05	0.25	0.07

#### Notes:

ppmv - parts per million per volume

% V - percent volume

The actual identity of samples 9001 and 9005 could not be determined.

<sup>\* -</sup> concentration for methane listed under other units

<sup>&</sup>lt; - indicates not detected above reporting limits shown

<sup>\*\* -</sup> Sample 9001 was mis-labeled in the field as 9005. The laboratory renamed the two samples labeled as 9005 as 9005A and 9005B.

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

Sample ID	Date Sampled	H <sub>2</sub> S Concentration
odinpio ib		ppm
	Tract 03	ppiii
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
	10/03/00	0.000
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		0.000
6019	10/03/00 10/03/00	0.001
6020		0.000
6021	10/02/00	•
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	
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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H2S Results Phase 2.xls

11/2/008:47 AM

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

	•	
Sample ID	Date Sampled	H <sub>2</sub> S 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	
6076	10/04/00 10/04/00	0.001 0.000
6077	Area B	0.000
7006	10/10/00	0.000
7026	10/07/00	0.000
7031 7032	10/07/00	0.000
7032 7033	10/10/00	0.000
7033 7035	10/10/00	0.000
7035 7036	10/07/00	No Reading Taken - Water
7036 7041	10/09/00	No Reading Taken - Water
7041	10/09/00	0.000
7042	10/09/00	No Reading Taken - Water
7043	10/03/00	140 Highling Faston - Hatel

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

	i laya vista	
Sample ID	Date Sampled	H <sub>2</sub> S 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
<b>705</b> 5	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
706 <del>6</del>	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
<b>7</b> 075	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 <sub>2</sub> S 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

H2S Results Phase 2.xls 11/2/008:47 AM

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

	,	
Sample ID	Date Sampled	H <sub>2</sub> S 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	10/1 <b>0</b> /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
904 <b>1</b>	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

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

Sample ID	Date Sampled	H₂S 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

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#### 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 <u>Collection of Soil Vapor Samples</u>

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.
- 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 <u>Disposition of Soil Vapor Collection Holes</u>

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 <u>Field Logbook</u>

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
l-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%	
A MOTE C	and the state of t	

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.

#### 65 Plus Analyses

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

#### C5-Benzene

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

NA

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

AH

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 for 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:

- 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.
- 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

O:\8103\PCC-L8Wmitigation\Playa 2 soil gas.doc



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

RЛИsp

Attachment: CDM95-203748

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

CDM95-203748

Sample Names	Methane	Methane	Ethane	Ethylene	Propane	Propylena	Propylene Iso-Butane	N-Butane	Lab O	Dale	Date	Date	40.41c.c.
L.	S.%)	(PPMV)	(PPMV)	(PPMV)	(PPMV)	(PPMV)	(PPMV)	(PPMV)		Sampled	Received	Analyzeo	Alialyst DC
BOOM	•	2.11	0.08	90.0	90.0	0.05	<0.03	<0.03	T38 315	10/03/00	10/04/00	00/11/01	2 6
0004	•	- <del>-</del>	70.0	0.05	<0.03	<0.03	<0.03	<0.03	T38 316	10/03/00	10/04/00	10/11/00	) (2)
5000			900	700	<0.03	<0.03	<0.03	<b>~</b> 0.03	T38 317	10/03/00	10/04/00	10/11/00	ဗ္ဗ
9009	•	3 6	) () ()	5 5	<0.03	40.03	<0.03	<0.03	T38 318	10/03/00	10/04/00	10/11/00	ပ္ထ
6011	•	D F	9 6	000	200	900	<0.03	<0.03	T38 319	10/03/00	10/04/00	10/11/00	ပ္ထ
6012		77.	2 6	3 6	5 6	500	50	<0.03	T38 320	10/03/00	10/04/00	10/11/00	ပ္ထ
6013		1.38	0.03	0.02	200	3 6	0.00	00.03	T38.321	10/03/00	10/04/00	10/11/00	မှု
6018	•	7.7	0.0	20.0	300	200	8 6		T38.322	10/03/00	10/04/00	10/11/00	9G
6019	•	1.46	90.0	9.04	30.0	900	3 6		T28 222	10/03/00	10/04/00	10/11/00	ည္ထ
6020	•	1.59	0.05	0.05	0.03	<0.03	\$0.05 60.05	3 6	T38 324	10/03/00	10/04/00	10/11/00	ည္ထ
6023	•	1.50	0.04	0.02	<b>&lt;0.03</b>	<0.03	\$0.03	50.05	130 021	00/60/07	10/04/00	10/12/00	e C
6024	•	0.5£	0.0	<b>₹</b> 0.0 <b>3</b>	<b>€0.03</b>	<b>60</b> .03	<0.03	<b>×</b> 0.03	D40 00-	00/00/01	10/04/00		n 6
6025	٠	1.30	0.09	60.0	0.03	0.08	<b>6</b> 0.03	<0.03	138 350	10/03/00	10/04/00	10/12/00	) (
9000	•	1.00 E	0.06	90.0	0.03	0.03	<0.03	<0.03	T38 351	10/03/00	10/04/00	00/21/01	2 (
9709	•	. c	900	900	0.04	0.06	<0.03	<0.03	T38 352	10/03/00	10/04/00	10/12/00	ပ္ထ
6773 9930		4.03	000	60 C	0.03	0.06	<0.03	<0.03	T38 353	10/03/00	10/04/00	10/12/00	ပ္ထ
6036	•	<u> </u>	300	70.0	<0.03	<0.03	<0.03	<0.03	T38 354	10/03/00	10/04/00	10/12/00	ည
6031	•	, 9, 6	500	5 6	60.00	<0.03	<0.03	<0.03	<b>T38 355</b>	10/03/00	10/04/00	10/12/00	ည္ထ
6032	•	3 5	2 2	8	0.03	0.05	<0.03	<0.03	T38 356	10/03/00	10/04/00	10/12/00	ည္ထ
6033	• 4	D.48	0.00	3 8	3 6	500	8	£0.03	T38 357	10/03/00	10/04/00	10/12/00	ရှင
6034	•	2.00	90.08	8 6	5 6	300	80.00	50.5	138 358	10/03/00	10/04/00	10/12/00	ည္ထ
6035	•	1.56	0.09	0.03	40.0	0.0	50.03	3 6	00000	10,003,00	10/04/00	10/12/00	ည္ထ
6036	*	1.44	0.07	0.07	0.03	<b>&lt;0.03</b>	50.03 V	<0.03	60000	000000	007007	1019/00	e C
6037	•	1.48	0.09	0.08	<b>0</b> .0	0.07	<0.03	×0.03	138 350	00/00/01	20,400		) (
0000		138	0.02	0.04	<0.03	<0.03	<0.03	<0.03	T38 361	10/03/00	10/04/00	20.07	) (
9500	•	8	900	90.0	0.03	90'0	<0.03	<0.03	T38 362	10/03/00	10/04/00	10/12/00	ر ا
6038	,	9 4		80.0	40.0	0.05	<0.03	<0.03	T38 363	10/03/00	10/04/00	10/12/00	28
6040		D :	5	9 6	5 6	000	0.03	80.0	T38 364	10/03/00	10/04/00	10/12/00	ပ္ထ
6041	•	4.10	0.52	0.32	62.0	27.5	0.00	8 6	100 OCT	10/03/00	10/04/00	10/12/00	28
6042	•	3.94	0.37	0.25	0.14	0.17	0.03	0.07		5	e e e e e e e e e e e e e e e e e e e	) 1	
-													
STIMILINOITCHER	0.02	0.04	0.01	0.01	0.03	0.03	0.03	0.03					
					•	1							

• METHANE RESULT TAKEN FROM ALTERNATE DETECTOR



CDM95-203748

\*\*\*\* QUALITY CONTROL \*\*\*\*

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

CONTINUING CALIBRATION STANDARDS 10/11/00	BRATION STA	ANDARDS 10/1	1/00		HE IN LOOP 10/11/00			
COMPOUND	FILE ID	TRUE CONC.	MEASURED	% DIFF.	COMPOUND	FILE 10	DET. LIMIT	MEASURED
METHANE (FID)	T38 270	30.00	32.19	7.30	METHANE (FID)	T38 272	0.04 PPMV	9
ETHANE	T38 270	10.00	10.02	0.20	ETHANE	T38 272	0.01 PPMV	2
ETHYLENE	T38 270	10.00	10.03	0:30	ETHYLENE	T38 272	0.01 PPMV	2
PROPANE	T38 270	10.00	10.05	0.50	PROPANE	T38 272	0.03 PPMV	2
PROPYLENE	T38 270	T38 270 10.00 10.07	10.07	0.70	PROPYLENE	T38 272	0.03 PPMV	9
ISO-BUTANE	T38 270	10.00	10.35	3.50	ISO-BUTANE	T38 272	0.03 PPMV	2
HANTIN'S	T38 270	10.00	10.49	4.90	N-BUTANE	T38 272	0.03 PPMV	2

ANALYST INITIALS

CDM95-203748

\*\*\*\* QUALITY CONTROL \*\*\*\*\*

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

CONTINUING CALIBRATION STANDARDS 10/12/00

HE IN LOOP 10/12/00

COMPOUND	FILE ID	TRUE CONC.	MEASURED % DIFF.	% DIFF.	COMPOUND	FILEID	DET. LIMIT	MEASURED
METHANE (FID)	T38 327	30.00	32.14	7,13	METHANE (FID)	T38 329	0,04 PPMV	S
ETHANE	T38 327	10.00	10.10	1.00	ETHANE	T38 329		ð
ETHYLENE	T38 327	10.00	10.08	0.80	ETHYLENG	T38 329		ð
PROPANE	T38 327	10,00	10.10	1.00	PROPANE	T38 329	0.03 PPMV	ð
PROPYLENE	T38 327	10.00	10.03	0.30	PROPYLENE	T38 329		ð
ISO-BUTANE	T38 327	10.00	10.07	0.70	ISO-BUTANE	T38 329		Q
N-BUTANE	T38 327	10.00	9.81	1.90	N-BUTANE	T38 329		Q

ANALYST INITIALS M

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	10/02/00	JLL
6005	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W99A482	10/03/00	10/04/00	10/02/00	J.L.
9009	0.12	< 0.07	< 0.07	< 0.07	< 0.07	W99A483	10/03/00	10/04/00	10/02/00	JLL
1109	< 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	10/02/00	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	1.1	0.18	< 0.07	W99A490	10/03/00	10/04/00	10/06/00	JLL
0709	< 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	J.L.
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
9709	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W99A495	10/03/00	10/04/00	10/06/00	JLL
6059	< 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	00/60/01	JLL
6033	< 0.07	< 0.07	< 0.07	0.80	< 0.07	W100A05	10/03/00	10/04/00	10/09/00	ILL
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	JTT
9036	< 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	JTT
6039	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A11	10/03/00	10/04/00	10/09/00	JTF
6040	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A12	10/03/00	10/04/00	10/09/00	)LL
6041	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A13	10/03/00	10/04/00	10/06/01	JLL.
6042	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A14	10/03/00	10/04/00	10/00/00	JLL
Detection Limits	0.07	0.07	0.07	0.07	0.07					

Analyst TLL

CDM95 -203748

#### Quality Control

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

Compound         Lab ID         True Conc.         Measured         % Diff.         Compound         Lab ID         Report. Limit           Benzene         W99A464         1.25         1.24         1.12         Benzene         W99A465         0.07         ND           Toluene         W99A464         1.06         1.05         1.02         1.32         Toluene         W99A465         0.07         ND           Ethyl Benzene         W99A464         1.06         0.92         0.91         1.32         Ethyl Benzene         W99A465         0.07         ND           Ontho Xylene         W99A464         0.92         0.92         0.43         MP Xylene         W99A465         0.07         ND           Compound         Lab ID         True Conc.         Measured         % Diff.         Compound         Lab ID         Report. Limit           Compound         Lab ID         True Conc.         Measured         % Diff.         Compound         Lab ID         Report. Limit           Compound         Lab ID         N99A486         1.06         0.92         0.43         MP Xylene         W99A487         0.07         ND           Ethyl Benzene         W99A486         1.06         1.12         5.66	Continuing Calibration Standards 10/05/00	n Standards 10/0;	2/00			N2 in vial 10/05/00			
Use Conc.         Measured Measured % Diff.         Compound Benzene W99A465         LDFDMN V V V V V V V V V V V V V V V V V V V	ı							Report. Limit	
1.25         1.24         1.12         Benzene         W99A465         0.07           1.06         1.05         1.32         Toluene         W99A465         0.07           0.92         0.91         1.52         Ethyl Benzene         W99A465         0.07           0.92         0.91         1.52         Ethyl Benzene         W99A465         0.07           0.92         0.92         0.43         Ortho Xylene         W99A465         0.07           0.92         0.92         0.93         4.00         Benzene         W99A487         0.07           1.25         1.30         4.00         Benzene         W99A487         0.07           0.92         0.96         4.46         Ethyl Benzene         W99A487         0.07           0.92         0.96         4.46         Ethyl Benzene         W99A487         0.07           0.92         0.96         4.46         Ethyl Benzene         W99A487         0.07           0.92         0.95         3.26         Ortho Xylene         W99A487         0.07           1.24         1.34         4.72         Ortho Xylene         W100A02         0.07           1.25         1.24         0.80         Benzen	punodu	Lab ID	True Conc.	Measured	% Diff.	Compound	Lab ID	(hbmv)	Measured
1.06         1.05         1.32         Toluene         W99A465         0.07           0.92         0.91         1.52         Ethyl Benzene         W99A465         0.07           1.84         1.85         0.49         M/P Xylene         W99A465         0.07           0.92         0.92         0.43         Ortho Xylene         W99A465         0.07           0.92         0.92         0.90         A.00         Report Limit           nue Conc.         Measured         % Diff.         Compound         Lab ID         (ppmv)           1.25         1.30         4.00         Benzene         W99A487         0.07           1.04         5.43         M/P Xylene         W99A487         0.07           0.92         0.96         4.46         Ethyl Benzene         W99A487         0.07           0.92         0.95         3.26         Ortho Xylene         W99A487         0.07           0.92         0.95         3.26         Ortho Xylene         W99A487         0.07           1.24         0.80         Ortho Xylene         W99A487         0.07           1.25         1.24         0.80         Ortho Xylene         W100A02         0.07	nzene	W99A464	1.25	1.24	1.12	Benzene	W99A465	0.07	Ð
0.92         0.91         1.52         Ethyl Benzene         W99A465         0.07           1.84         1.85         0.49         M/P Xylene         W99A465         0.07           0.92         0.92         0.43         Ortho Xylene         W99A465         0.07           0.92         0.92         0.43         Ortho Xylene         W99A465         0.07           ne Conc.         Measured         % Diff.         Compound         Lab ID         (ppmx)           1.25         1.30         4.00         Benzene         W99A487         0.07           1.84         1.94         5.43         M/P Xylene         W99A487         0.07           0.92         0.96         4.46         Ethyl Benzene         W99A487         0.07           0.92         3.26         Ortho Xylene         W99A487         0.07           0.92         3.26         Ortho Xylene         W99A487         0.07           1.25         1.24         0.80         Benzene         W100A02         0.07           1.06         1.11         4.72         Toluene         W100A02         0.07           1.84         1.86         1.09         Ortho Xylene         W100A02         0.07	luene	W99A464	1.06	1.05	1.32	Toluene	W99A465	0.07	QN
1.84         1.85         0.49         M/P Xylene         W99A465         0.07           0.92         0.92         0.43         Ortho Xylene         W99A465         0.07           0.92         0.92         0.43         Ortho Xylene         W99A465         0.07           ne Conc.         Measured         % Diff.         Compound         Lab ID         (ppnax)           1.25         1.30         4.00         Benzene         W99A487         0.07           0.92         0.96         4.46         Ethyl Benzene         W99A487         0.07           1.84         1.94         5.43         M/P Xylene         W99A487         0.07           0.92         3.26         Ortho Xylene         W99A487         0.07           0.92         3.26         Ortho Xylene         W99A487         0.07           1.84         1.94         5.43         M/P Xylene         W99A487         0.07           1.25         1.24         0.80         Benzene         W100A02         0.07           1.06         1.11         4.72         Toluene         W100A02         0.07           1.84         1.86         1.09         M/P Xylene         W100A02         0.07     <	nyl Benzene	W99A464	0.92	0.91	1.52	Ethyl Benzene	W99A465	0.07	ΩŽ
0.92         0.92         0.43         Ortho Xylene         W99A465         0.07           ne Conc.         Measured         % Diff.         Compound         Lab ID         (ppmv)           1.25         1.30         4.00         Benzene         W99A487         0.07           1.06         1.12         5.66         Toluene         W99A487         0.07           0.92         0.96         4.46         Ethyl Benzene         W99A487         0.07           1.84         1.94         5.43         M/P Xylene         W99A487         0.07           0.92         0.95         3.26         Ortho Xylene         W99A487         0.07           0.92         0.95         3.26         Ortho Xylene         W99A487         0.07           1.84         1.94         5.43         M/P Xylene         W99A487         0.07           1.25         0.80         3.26         Ortho Xylene         W100A02         0.07           1.24         0.80         Benzene         W100A02         0.07           1.06         1.11         4.72         Toluene         W100A02         0.07           0.92         0.94         2.17         Ethyl Benzene         W100A02	P Xylene	W99A464	1.84	1.85	0.49	M/P Xylene	W99A465	0.07	QN
ne Conc.         Measured	tho Xylene	W99A464	0.92	0.92	0.43	Ortho Xylene	W99A465	0.07	Q.
nue Conc.         Measured         % Diff.         Compound         Lab ID Lab ID (ppmv)         Report. Limit           1.25         1.30         4.00         Benzene         W99A487         0.07           1.06         1.12         5.66         Toluene         W99A487         0.07           0.92         0.96         4.46         Ethyl Benzene         W99A487         0.07           1.84         1.94         5.43         M/P Xylene         W99A487         0.07           0.92         0.95         3.26         Ortho Xylene         W99A487         0.07           1.84         1.94         5.43         M/P Xylene         W100A02         0.07           1.25         1.24         0.80         Benzene         W100A02         0.07           1.06         1.11         4.72         Toluene         W100A02         0.07           1.84         1.86         1.09         M/P Xylene         W100A02         0.07           0.92         0.93         1.09         Ortho Xylene         W100A02         0.07	ntinuing Calibratio	n Standards 10/00	00/9			N2 in vial 10/06/00			
rid         Lab ID         True Conc.         Measured         % Diff.         Compound         Lab ID         (ppmv)           w99A486         1.25         1.30         4.00         Benzene         W99A487         0.07           nzene         W99A486         1.06         1.12         5.66         Toluene         W99A487         0.07           nne         W99A486         1.84         1.94         5.43         M/P Xylene         W99A487         0.07           stene         W99A486         1.84         1.94         5.43         M/P Xylene         W99A487         0.07           stene         W99A486         0.92         0.95         3.26         Ortho Xylene         W99A487         0.07           stene         W99A486         0.92         0.95         3.26         Ortho Xylene         W99A487         0.07           ng Calibration Standards 10/09/00         True Conc.         Measured         % Diff.         Compound         Lab ID         (ppmv)           ng Lab ID         True Conc.         Measured         % Diff.         A72         Toluene         W100A02         0.07           w100A01         1.84         1.86         1.09         M/P Xylene         W100A02	•							Report. Limit	
wy99A886         1.25         1.30         4.00         Benzene         Wy99A87         0.07           rzene         Wy99A886         1.06         1.12         5.66         Toluene         Wy99A87         0.07           sne         Wy99A486         1.84         1.94         5.43         M/P Xylene         Wy99A87         0.07           dene         Wy99A486         0.92         0.95         3.26         Ortho Xylene         Wy99A487         0.07           ng Calibration Standards 10/09/00         True Conc.         Measured         % Diff.         Ortho Xylene         Wy99A487         0.07           ng Calibration Standards 10/09/00         True Conc.         Measured         % Diff.         Compound         Lab ID         (ppmv)           d         W100A01         1.24         0.80         Benzene         W100A02         0.07           w100A01         0.92         0.94         2.17         Ethyl Benzene         W100A02         0.07           me         W100A01         0.92         0.94         2.17         Ethyl Benzene         W100A02         0.07           en         W100A01         0.92         0.93         1.09         Ortho Xylene         W100A02         0.07 <td>punodu</td> <td>Lab ID</td> <td>True Conc.</td> <td>Measured</td> <td>% Diff.</td> <td>Compound</td> <td>Lab ID</td> <td>(ppmv)</td> <td>Measured</td>	punodu	Lab ID	True Conc.	Measured	% Diff.	Compound	Lab ID	(ppmv)	Measured
w99A486         1.06         1.12         5.66         Toluene         w99A487         0.07           nne         w99A486         0.92         0.96         4.46         Eihyi Benzene         w99A487         0.07           lene         w99A486         1.84         1.94         5.43         M/P         M/P         M/P         M/P         M/P         M/P         0.07         0.07           dene         w99A486         0.92         0.95         3.26         Ortho Xylene         w99A487         0.07           ng Calibration Standards 10/09/00         I.ad ID         True Conc.         Measured         % Diff.         N2 in vial 10/09/09         Report. Limit           nd         Lab ID         True Conc.         Measured         % Diff.         Denzene         W100A02         0.07           w100A01         1.25         1.24         0.80         Benzene         W100A02         0.07           me         w100A01         0.92         0.94         2.17         Ethyl Benzene         W100A02         0.07           me         w100A01         0.92         0.94         2.17         Ethyl Benzene         W100A02         0.07           me         w100A01         0.92	nzene	W99A486	1.25	1.30	4.00	Benzene	W99A487	0.07	QZ
0.92         0.96         4.46         Ethyt Benzene         W99A487         0.07           1.84         1.94         5.43         M.P. Xylene         W99A487         0.07           0.92         0.95         3.26         Ortho Xylene         W99A487         0.07           1         0.05         3.26         Ortho Xylene         W99A487         0.07           1         0.05         0.07         0.07         0.07           1         0.06         0.07         0.07           1.06         1.11         4.72         Toluene         W100A02         0.07           1.09         0.09         2.17         Ethyl Benzene         W100A02         0.07           1.84         1.86         1.09         M/P Xylene         W100A02         0.07           0.92         0.93         1.09         Ortho Xylene         W100A02         0.07	luene	W99A486	1.06	1.12	5.66	Toluene	W99A487	0.07	Ω
1.84         1.94         5.43         M/P Xylene         W99A487         0.07           0.92         0.95         3.26         Ortho Xylene         W99A487         0.07           1.25         1.24         0.80         Report, Limit         Report, Limit           1.25         1.24         0.80         Benzene         W100A02         0.07           1.06         1.11         4.72         Toluene         W100A02         0.07           0.92         0.94         2.17         Ethyl Benzene         W100A02         0.07           1.84         1.86         1.09         M/P Xylene         W100A02         0.07           0.92         0.93         1.09         Ortho Xylene         W100A02         0.07	tyl Benzene	W99A486	0.92	96'0	4,46	Ethyl Benzene	W99A487	0.02	QX
0.92         0.95         3.26         Ortho Xylene         W99A487         0.07           nee Conc.         Measured         % Diff.         Compound         Lab ID         (ppmv)           1.25         1.24         0.80         Benzene         W100A02         0.07           1.06         1.11         4.72         Toluene         W100A02         0.07           0.92         0.94         2.17         Ethyl Benzene         W100A02         0.07           1.84         1.86         1.09         M/P Xylene         W100A02         0.07           0.92         0.93         1.09         Ortho Xylene         W100A02         0.07	P Xylene	W99A486	1.84	1.94	5.43	M/P Xylene	W99A487	0.07	S
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rue Conc.         Measured         % Diff.         Compound         Lab ID         (ppmv)           1.25         1.24         0.80         Benzene         W100A02         0.07           1.06         1.11         4,72         Toluene         W100A02         0.07           0.92         0.94         2.17         Ethyl Benzene         W100A02         0.07           1.84         1.86         1.09         M/P Xylene         W100A02         0.07           0.92         0.93         1.09         Ortho Xylene         W100A02         0.07	ntinuing Calibratio	n Standards 10/09	00/6			N2 in vial 10/09/00			
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W100A01         1.25         1.24         0.80         Benzene         W100A02         0.07           W100A01         1.06         1.11         4.72         Toluene         W100A02         0.07           ane         W100A01         0.92         0.94         2.17         Ethyl Benzene         W100A02         0.07           ane         W100A01         1.84         1.86         1.09         M/P Xylene         W100A02         0.07           Ilene         W100A01         0.92         0.93         1.09         Ortho Xylene         W100A02         0.07	punodu	Lab ID	True Conc.	Measured	% Diff.	Compound	Lab ID	(vmdd)	Measured
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W100A01         1.84         1.86         1.09         M/P Xylene         W100A02         0.07           e         W100A01         0.92         0.93         1.09         Ortho Xylene         W100A02         0.07	nyl Benzene	W100A01	0.92	0.94	2.17	Ethyl Benzene	W100A02	0.07	N O
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	ho Xylene	W100A01	0.92	0.93	1.09	Ortho Xylene	W100A02	0.00	Q

## MICROSEEPS, Inc.

PA 15238	1421
Pittsburgh, PA 15238	Est. (412) 826 3423
220 William Pitt Way,	Phone: (412) 826-5245

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£	CHALKSON					
A VISTA	3	J. J.	2000		Fax #:	
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## CHAIN-OF-CUSTODY RECORD

Note: Enter proper letters in Requested Analyses columns below.

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

C1 -C4	-C4		5	G Chlorinated HC
B Hy	lydrogen & Helium			H BTEX
* C Per	Permanent Gases (	(CH4, CO, COZ, NZ, OZ )	7	BTEX & CS - C10
D Me	Mercury (Soil) or (Air **)	ùr ••• )	2	K TPH (CS-CIO) or (C4-C12)
E TO	-14 by GC/MS (.	TO-14 by GC/MS (Ambient) or (Source **)	-	C11 - C18
F 601	601 & 602 Compounds		8	Mar Specify below.

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

\*\* Available upon request.

Sampler's signature :

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PINK COPY: Submitter

YELLOW COPY : Laboratory

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## MICROSEEPS, Inc.

220 William Pitt Way, Pittsburgh, PA 15238

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

Fax #: RATAVISTI Company Name: Proj. Manager: Proj. Location: Proj. Number: Phone #: Address:

### CHAIN-OF-CUSTODY RECORD

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

Analysis Options

en & Helium ent Gases y (soil) or ( by GC/MS	G Chlorinated HC	/ H STEX	) T BTEX & C5 - C10	<b>■ K</b> TPH (cs⋅c10) α (c4⋅c12)	C11 - C18	Other Specify below.
CA -C4 Hydrogen & Helium Permanent Gases Mercury (Soll) or TO-14 by GC/MS 601 & 602 Compoun			( CH4, CO, CO2, N2, O2 )	- ( Air ** )	(Ambient) or (Source **	spu
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An additional 22 ml vial of sample is required when requested in combination with another analysis.

Available upon request.

Sampler's signature :

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## MICROSEEPS, Inc.

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

220 William Pitt Way, Pittsburgh, PA 15238

Fax #: PATA Company Name: Proj. Manager: Proj. Location: Address: Proj. Number: Phone #:

### CHAIN-OF-CUSTODY RECORD

Note: Enter proper lettern in Requested Analyses columns below.

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

	C1 -C4		ဝ	G Chlorinated HC
<b>,,,,,</b>	B Hydrogen & Helium	μ.	11	E BJEX
	C Permanent Gases	( CH4, CO, CO2, N2, O2 )		BTEX & C5 - C10
	D Mercury (Soil)	(Soil) or (Air **)	K	K TPH (CS-C10) or (C4-C12)
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An additional 22 ml vial of sample is required when requested in combination with another analysis.

Available upon request.

Sampler's signature

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## MICROSEEPS, Inc.

220 William Pitt Way, Pittsburgh, PA 15238 Phone: (412) 826-5245 Fax: (412) 826-3433 980K RACK USTA Company Name: Proj. Manager: Proj. Location: Proj. Number: Phone #: Address:

Fax#:

Sampler's signature :

### 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. Analysis Options

4 CY-C4	-C4	G Chlorinated HC
* B H,	B Hydrogen & Helium	B BTEX
ય	Permanent Gases (CH4, CO, CO2, N2, O2 )	■ BTEX & C5 - C10
D M	Mercury (Soil) or (Air **)	K TPH (CS-C10) or (C4-C12)
E T(	E TO-14 by GC/MS (Ambient) or (Source **)	L C11 - C18
09 J	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	Number of	.Summs.	Sample	Sample	aldı						
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# OCCUPANT OCCUPANT

	1VIICKOSEEFPS, Inc 220 William Pitt Way, Pittsburgh, PA 15238 Phone: (412) 826-5245 Fax: (412) 826-3433
ty Name:	DCMYA VISTA

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DUATA VISTA	12555 W AP	WERT SCHAM	DA CA- 90006		Fax#:
Company Name:	Address:	Proj. Manager:	Proj. Location:	Proj. Number:	Phone #:

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### CHAIN-OF-CUSTODY RECORD

Note: Exter proper letters in Requested Analyses columns below. Note: if snalyns D.E.or K is selected, scretch (option) NOT warted.

Analysis Options

* A Di -C4	G Chlorinated HC
* B Hydrogen & Helium	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. :

Sampler's signatura

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

Sincerely,

Rebecca J. Hans

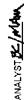
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Attachment: CDM96-203762

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

Sample Names	Methane	Methane	Ethane	Ethylene	Propane	Propylene	so-Butane	N-Butane	Lab ID	Date	Date	Date	
	₹ %	(PPMV)	(PPMV)	(PPMV)	(PPMV)	(PPMV)	(PPMV)	(PPMV)		Sampled	Received	Analyzed	Analyst
6085		26'0	0.01	10.0	<0.03	<0.03	<0.03	<0.03	T38 388	10/04/00	10/05/00	10/12/00	ည္ထ
6049		1.34	90.0	0.03	<b>40.03</b>	<0.03	<0.03	<0.03	138 387	10/04/00	10/05/00	10/12/00	မ္ထ
8051		1.46	0.08	80.0	0.04	90.0	<0.03	<0.03	138 368	10/04/00	10/05/00	10/12/00	မ္တ
6054	•	1.28	0.02	0,03	£0.03	\$0.08	<0.03 0.03	<0.03	T38 369	10/04/00	10/05/00	10/12/00	မ္ထ
8088		1.24	90.0	0.05	<b>€</b> 0.03	<0.03	<0.03	<0.03	T38 370	10/04/00	10/05/00	10/12/00	မ္တ
6043	•	0.78	₽.	<0.0	89.83	<0.03	<0.03	<0.03	T38 371	10/04/00	10/05/00	10/12/00	မ္တ
8083		2.38	0.13	0.19	90.0	0.18	<0.03	<0.03	T38 372	10/04/00	10/05/00	10/12/00	ပ္ထ
8044	•	1.75	90.0	90.0	€0.03	<0.03	<0.03	<0.03	T38 373	10/04/00	10/05/00	10/12/50	ပ္ထ
8047		1,96	0.09	20.0	8	0.05	<b>CD.03</b>	<0.03	T38 374	10/04/00	10/05/00	10/12/00	ပ္ထ
5057		1.08	90'0	0.05	€0.03	<0.03	<0.03	<0.03	T38 375	10/04/00	10/05/00	10/12/00	ပ္
9076		1.95	90.0	60.04	<b>6</b> 0.03	<0.03	<0.03	<0.03	T38 378	10/04/00	10/05/00	10/12/00	မ္ထ
6062	•	0.68	0.04	0.05	€0.03	<0.03	<0.03	<0.03	T38 377	10/04/00	10/05/00	10/12/00	ပ္ထ
6046		1.58	90.0	90.0	€0.03	<0.03	€0.03	<0.03	T38 388	10/04/00	10/05/00	10/13/00	င္ထ
6050	•	1.48	0.02	0.02	<b>€0.03</b>	<0,03	<0.03	<0.03	T38 389	10/04/00	10/05/00	10/13/00	ပ္ထ
6070		0.91	9.0	0.04	Ø.03	<0.03	€0.03	<0.03	T38 390	10/04/00	10/05/00	10/13/00	မ္တ
8058	•	2.10	0.05	90.0	<0.03	0.05	<0.03	<0.03	T38 391	10/04/00	10/05/00	10/13/00	မ္တ
8065	•	2.11	0.08	0.08	<0.03	<0.03	<0.03	<0.03	T38 392	10/04/00	10/05/00	10/13/00	ဗ္ဗ
5053		1.71	90.0	0.08	0.03	0.03	<0.03	<0.03	T38 393	10/04/00	10/05/00	10/13/00	မ္က
0908	•	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	က္ဆ
6067	•	2.06	6.08	0.04	<0,03	90.0	<0.03	<0.03	T38 395	10/04/00	10/05/00	10/13/00	ပ္ထ
8052	•	1.30	90'0	90.0	<0.03	<0.03	<0.03	<0.03	T38 396	10/04/00	10/05/00	10/13/00	မ္တ
6073	•	1.71	20.0	10.02	<b>€</b> 0.03	<0.03	<0.03	<0.03	T38 397	10/04/00	10/05/00	10/13/00	မ္ထ
8064	•	<del>1</del> .	0.05	90.0	c0.03	<b>€</b> 0:03	<0.03	<0.03	T38 398	10/04/00	10/05/00	10/13/00	ပ္ထ
6029	•	1.42	60.0	0.07	<0.03	90.0	<0.03	<0.03	T38 399	10/04/00	10/05/00	10/13/00	ပ္ထ
6969	•	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	ပ္ထ
8058	•	1.07	0.05	90.0	<0.03	<b>€</b> 0.03	<0.03	<0.03	T38 401	10/04/00	10/05/00	10/13/00	ထ္ထ
6045	•	1.24	0.07	90.0	<0.03	<0.03	<0.03	<0.03	T38 402	10/04/00	10/05/00	10/13/00	ည္ထ
8909	•	1,10	20.0	0.02	<0.03	<b>₹0:03</b>	€0.03	<0.03	T38 403	10/04/00	10/05/00	10/13/00	ပ္ထ
6072		9. 8.	0.03	9.03	<0.03	<0.03	<0,03	<0.03	T38 404	10/04/00	10/05/00	10/13/00	မ္မ
6071	•	<u>1</u> 2	90.0	0.03	<0.03	<b>€0.03</b>	<0.03	<0.03	T38 405	10/04/00	10/05/00	10/13/00	ပ္ထ
6048	•	96.	90.0	90.0	<0.03	<0.03	<0.03	<0.03	T38 406	10/04/00	10/05/00	10/13/00	ပ္ထ
6077		1.74	0.12	0.03	0.06	<b>€</b> 0.03	<0.03	<0.03	T38 407	10/04/00	10/05/00	10/13/00	မ္တ
6075	•	1.67	0.03	0.03	<0.03	<b>\$0.03</b>	<0.03	<0.03	T38 408	10/04/00	10/05/00	10/13/00	မ္ထ
6074	•	1,47	60.0	0.03	0.03	0.05	<0.03	<0.03	T38 409	10/04/00	10/05/30	10/13/00	¥
6061	•	87	0.02	0.01	<0.03	<0.03	<0.03	<0.03	T38 410	10/04/00	10/05/00	10/13/00	¥
DETECTION LIMITS	0.02	0.04	0	0.01	0.03	0.03	0.03	0.03					

METHANE RESULT TAKEN FROM ALTERNATE DETECTOR



CDM96-203762

\*\*\*\*\* QUALITY CONTROL \*\*\*\*\*

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

CONTINUING CALIBRATION STANDARDS 10/12/00	RATION ST,	ANDARDS 10/1	2/00		HE IN LOOP 10/12/00			
COMPOUND	FILE 1D	FILE ID TRUE CONC. MI	MEASURED	% DIFF.	COMPOUND	FILE ID	DET. LIMIT	MEASURED
METHANE (FID)	T38 327	30.00	32.14	7.13	METHANE (FID)	T38 329	0.04 PPMV	Q.
ETHANE	T38 327	10.00	10.10	1.00	ETHANE	T38 329	0.01 PPMV	9
ETHYLENE	T38 327	10.00	10.08	0.80	ETHYLENE	T38 329	0.01 PPMV	
PROPANE	T38 327	10.00	10.10	1.00	PROPANE	T38 329	0.03 PPMV	9
PROPYLENE	T38 327	10.00	10.03	0.30	PROPYLENE	T38 329	0.03 PPMV	
ISO-BUTANE	T38 327	10.00	10.01	0.70	ISO-BUTANE	T38 329	0.03 PPMV	
N-BUTANE	T38 327	10.00	9.81	1.90	N-BUTANE	T38 329	0.03 PPMV	



CDM96-203762

#### \*\*\*\*\* QUALITY CONTROL \*\*\*\*\*

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

CONTINUING CALIBRATION STANDARDS 10/13/00

HE IN LOOP 10/13/00

OMIONIO	C u	TRUE CONC. M	MEASURED	% DIFF.	COMPOUND	FILE 10	DET. LIMIT	MEASURED
MOTON (CID)	T28 370	30.00	30.08	7.60	METHANE (FID)	T38 384	0.04 PPMV	Q
	T28 270		10.08		ETHANE	T38 384		2
	120 27		10.06	0.60	BTHYLENE	T38 384		
	130370		5 5	5 5	PROPANE	T38 384		
	130 3/9 T38 370		10.12	1.70	PROPYLENE	T38 384		
ISO-BLITANE	T38.379		10.48	4.80	ISO-BUTANE	T38 384	0.03 PPMV	9
N-BUTANE	T38 379	10.00	10.95	9.50	N-BUTANE	T38 384		

ANALYST INITIALS

CDM96 -203762

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

Sample ID	Benzene	Toluene	Ethyl Benzene	M/P Xylene	Ortho Xylene	<b>L</b>	Date Sampled	Date Received	Date Analyzed	Analyst
\$909	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A15	10/04/00	10/05/00	10/09/00	11.
6049	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A16	10/04/00	10/05/00	10/06/00	JLľ.
6051	<0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A17	10/04/00	10/02/00	10/06/01	1.L
6054	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A18	10/04/00	10/02/00	10/09/00	JŢŢ
9909	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A19	10/04/00	10/02/00	10/06/01	7
6043	< 0.07	0.09	< 0.07	< 0.07	< 0.07	W100A20	10/04/00	10/02/00	10/06/00	JLL
6063	< 0.07	< 0.07	< 0.07	< 0.07	0.44	W100A21	10/04/00	10/02/00	10/06/00	7.
6044	1.05	< 0.07	< 0.07	< 0.07	< 0.07	W100A22	10/04/00	10/02/00	10/00/00	JTT
6047	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A25	10,/04/00	10/02/00	10/10/00	J.L
6057	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A26	10/04/00	00/50/01	10/10/00	1TF
6076	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A27	10/04/00	10/02/00	10/10/00	J.L.
6062	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A28	10/04/00	10/02/00	00/01/01	77
6046	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A29	10/04/00	10/08/00	10/10/00	JLL
0509	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A30	10/04/00	10/02/00	00/01/01	711
0209	< 0.07	< 0.07	< 0.07	0.22	< 0.07	W100A31	10/04/00	10/05/00	10/10/00	7C
6056	< 0.07	< 0.07	× 0.07	< 0.07	< 0.07	W100A32	10/04/00	10/05/00	10/10/00	JUL
6055	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A33	10/04/00	10/05/00	10/10/00	7.T
6053	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A34	10/04/00	10/05/00	10/10/00	JLT.
0909	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A35	10/04/00	10/05/00	10/10/00	JLT.
2909	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A36	10/04/00	10/02/00	10/10/00	J.L
6052	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A37	10/04/00	10/02/00	10/10/00	17
6073	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A38	10/04/00	10/02/00	10/10/00	77
6064	< 0.07	< 0.07	< 0.07	0.92	< 0.07	W100A39	10/04/00	10/02/00	10/10/00	77
6039	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A40	10/04/00	10/02/00	10/10/00	JLL
6909	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A41	10,04/00	10/02/00	10/10/00	111
6058	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A42	10/04/00	10/02/00	10/10/00	11.
6045	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A43	10/04/00	10/05/00	10/10/00	JLL.
8909	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A44	10/04/00	10/05/00	10/10/00	7.1
6072	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A47	10/04/00	10/02/00	10/11/00	JLT
6071	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A48	10/04/00	10/02/00	10/11/00	J.L
6048	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A49	10/04/00	10/02/00	10/11/00	JLT.
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	10/02/00	10/11/00	<b>1</b> [[
6074	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A52	10/04/00	10/02/00	10/11/00	J.T.
6061	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A53	10.04/00	10/02/00	10/11/00	JLT.
Detection Limits	0.07	0.07	0.07	0.07	0.03					
Detection Limits	0.07	70.0	0.0	0.07	0.0					

Analysi 311 MAIN

10/12/00

#### Quality Control

CDM96 -203762

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

Continuing Calibration Standards 10/09/00	Standards 10/09	00/			N2 in vial 10/09/00				
							Report. Limit		
Compound	Lab ID	True Conc.	Measured	% Diff.	Compound	Lab ID	(hudd)	Measured	
Benzene	W100A01	1.25	1.24	080	Benzene	W100A02	0.07	Q.	
Toluene	W100A01	1.06	1.11	4.72	Toluene	W100A02	0.07	S	
Ethyl Benzene	W100A01	0.92	0.94	2.17	Ethyi Benzene	W100A02	0.07	S	
M/P Xylene	W100A01	1.84	1.86	1.09	M/P Xylene	W100A02	0.07	QN	
Ortho Xylene	W100A01	0.92	0.93	1,09	Ortho Xylene	W100A02	0.07	NO	
Continuing Calibration Standards 10/10/0	Standards 10/10	00/0			N2 in vial 10/10/00				
•							Report, Limit		
Compound	Lab ID	True Conc.	Measured	% Diff.	Compound	Lab ID	(vmdd)	Measured	
Benzene	W100A23	1.25	1.28	2.40	Benzene	W100A24	70'0	QN	
Toluene	W100A23	1.06	1.03	2.83	Toluene	W100A24	0.07	ΩŽ	
Ethyl Benzene	W100A23	0.92	0.89	3.26	Ethyl Benzene	W100A24	0.07	ΩN	
M/P Xylene	W100A23	1.84	18.1	1.63	M/P Xylene	W100A24	0.07	ę	
Ortho Xylene	W100A23	0.92	0.91	1.09	Ortho Xylene	W100A24	0.07	2	
Continuing Calibration Standards 10/11/00	Standards 10/1	00/1			N2 in vial 10/11/00				
							Report. Limit		
Compound	Lab ID	True Conc.	Measured	% Diff.	Compound	Lab ID	(ppmv)	Measured	
Benzene	W100A45	1.25	1.31	4.80	Benzene	W100A46	0.07	QN	
Toluene	W100A45	1.06	1.11	4.72	Toluene	W100A46	0.07	S	-
Ethyl Benzene	W100A45	0.92	0.97	5.43	Ethyl Benzene	W100A46	0.07	Ş	
M/P Xylene	WI00A45	<u>2</u> .	<del>2</del> .1	5.43	M/P Xylene	W100A46	0.07	Q	
Ortho Xylene	W100A45	0.92	0.97	5.43	Ortho Xylene	W100A46	0.07	ΩN	

Reviewed

## MICROSEEPS, Inc.

220 William Pitt Way, Pittsburgh, PA 15238

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

VISTA

PLAYA

Company Name:

Proj. Manager: Proj. Location: Proj. Number: Phone #:

Address:

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### 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 wrated.

Analysis Options

	A CI -C4	G Chlorinated HC
	B Hydrogen & Helium	(F BTEX
۵	Permanent Gases (CH4, CO, CO2, N2, O2)	) 1 BTEX & C5 - C10
a	Mercury (Soil) or (Air **)	
12	TO-14 by GC/MS (Ambient) or (Source **)	)
2	F 601 & 602 Compounds	Other Specify below.

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

Fax#:

Sampler's signature :					** Available upon request.
Collection	Number of	Summe.	Sample	Sample	
Call Time	Containers	if Can. used	Туре	Identification	Requested Analyses (Other) Renarks
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PINK COPY: Submitter

YELLOW COPY : Laboratory

; 1161701

## MICROSEEPS, Inc.

220 William Pitt Way, Pittsburgh, PA 15238

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

Fax #: Company Name: Proj. Manager: Proj. Location: Proj. Number: Phone #: Address:

K TPH (CS-C10) or (C4-C12) BTEX & CS- C10 Note: If analysis D, E, or K is selected, scratch (option) NOT wanted. C Chlorinated HC Note: Enter proper letters in Requested Analyses columns below L C11 - C18 CHAIN-OF-CUSTODY RECORD A BTEX TO-14 by GC/MS (Ambient) or (Source \*\*) (CH4, CO, CO2, NZ, O2 (Soil) or (Air \*\*) F 601 & 602 Compounds \* B Hydrogen & Helium \* C Permanent Gases Analysis Options D Mercury C1 -C4

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

Other Specify below.

Available upon request.

Sampler's signature:

and Collection	Number of	Summa #	Secretion	Sample					
Date Time	Containers	if Can. used	Type	Identification	uc	Requested Analyses	(Other)	Renarks	
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PINK COPY: Submitter

YELLOW COPY : Laboratory

AL 1107 /201007

## MICROSEEPS, Inc.

220 William Pitt Way, Pittsburgh, PA 15238

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

Ftx #: ACASA Company Name: Proj. Manager: Proj. Location: Proj. Number: Phone #:

### 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 Analysis Options

(4 A) C1 -C4	-C4		G Chlorinated HC
B Hyc	* B Hydrogen & Helium		(H) BTEX
<b>2</b>	Permanent Gases (CH4, CO, CO2, N2, O2)	2, N2, O2 )	J BTEX & CS - C10
D Mercury	retury (Soil) or (Air **)		K TPH (C5-C10) or (C4-C12)
10	E TO-14 by GC/MS (Ambient) or (Source **)	Source ** )	E C11 - C18
3	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.

Sampler's signadare:

Collection	Number of	/ . varans.	əįdu⊪s	Sample	
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		WHITE	WHITE COPY : Laboratory to return.		YELLOW COPY : Laboratory PINK COPY : Submitter

**€** 1.12 / 19 1 507 Ъ

MICROSEEPS, Inc.

220 William Pitt Way, Pittsburgh, PA 15238

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

VISTA Fax#: MYAM Company Name: Proj. Manager: Proj. Location: Proj. Number: Phone #:

### 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 wrated. Analysis Options

ĺ			000000000000000000000000000000000000000	
	Ci -C4		5	Chlorinated HC
	Hydrogen & Helium		11	втех
Ø	C Permanent Gases	(CH4, CO, CO2, N2, O2 )		BTEX & CS - C10
Δ	Mercury (Soil) or (Air**)	( Air ** )	K	TPH (CS-C10) or (C4-C12)
8	TO-14 by GC/MS	TO-14 by GC/MS (Ambiest) or (Source **)	Τ	C11 - C18
	601 & 602 Compounds	ŞŞ.	e iio	ther Specify below.

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

44 Available upon request.

Sample<del>r's si</del>

Collection	Number of	.Summs.	Secrepte	Sample	Je					
Data Time	Containers	if Can, used	Type	Identification	ation	Requested Analyses	l Analyses	(Other)	Remarks	
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Relinquished by :		Company:		Date:	Time :	Received by:	<u>-</u>	Gompany: 0 210 3460160 10/4/0)	1	Time: 5:2000M

PINK COPY : Submitter

YELLOW COPY : Laboratory

## MICROSEEPS, Inc.

220 William Pitt Way, Pittsburgh, PA 15238

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

Company Name:

Proj. Manager: Proj. Location: Proj. Number:

Address:

CHAIN-OF-CUSTODY RECORD

20376L / COM 46

\*

Note: Enter proper lettern in Requested Analyses columns below.

Analysis Options

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

A   C1 - C4
C1 -C4 Hydrogen & Heliun Permanent Gases Mercury (Soil) TO-14 by GC/MS
Cl -C4 Hydrogen - Permanent Mercury FO-14 by

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

Available upon request.

Fax #:

Sampler's sign

Phone #:

Collection	Number of	J "wwwns.	Sample	Sample	e e		
Dete Time	Containers	if Can. used	Type	Identification	ıtion	Requested Analyses (Other)	Remarks
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PINK COPY: Submitter

YELLOW COPY : Laboratory

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2000 RMA VISTA Fax#: Company Name: Proj. Manager: Proj. Location: Proj. Number: Phone #: Address:

## CHAIN-OF-CUSTODY RECORD

Note: Enter proper lettern in Requested Analyses columns below.

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

A /C1 -C4			9	G Chlorinated HC
* B Hydrogen & Helium	Helium		(I)	BY BTEX
* C Permanent Gases		(CH4, CO, CO2, NZ, O2 )		BTEX & C5 - C10
D Mercury	( Soil ) or ( Air **)	ír ** )	K	K TPH (CS-C10) or (C4-C12)
E TO-14 by G	C/MS	TO-14 by GC/MS (Ambient) or (Source **)		C11 - C18
F 601 & 602 Compounds	Compounds		Other	ther Specify below.

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

Sampler's signature :

	Number of	# "Wasting,	Sample	Sample						
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PINK COPY : Submitter,

YELLOW COPY : Laboratory



University of Pittsburgh Applied Research Center 220 William Pitt Way, Pittsburgh, PA 15238 (412) 826-5245<sub>ph</sub> (412) 826-3433<sub>fax</sub> 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

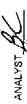
RJH/Isp

Attachment: CDM97-203770

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

Sample Names	Methane	Methane	Ethane	Ethylene	Propane	Ф	iso-Butane	N-Butane	Lab ID	Date	Date	Date	
1000	(%)	(VM <sup>-</sup>	(PPMV)	(PPMV)	(PPMV)	(PPMV)	(PPMV)	(PPMV)		Sampled	Received	Analyzed	Analyst
8005	•	0.99	90.0	9. 20.	<0.03	<0.03	<0.03	<0.03	T38 411	10/05/00	10/08/00	10/12/00	5
8006	•	1.10	0.03	0.02	×0.03	<0.03	<0.03	<0.03	T38 412	10/05/00	10/06/00	0000	2 6
8030	•	1.38	0.05	0.05	<b>&lt;0</b> .03	<0.03	€0.03	€0.03	T38 413	10/05/00	100000	2000	2 (
8032	*	2.11	0.12	0.08	9.0	0.05	<0.03	50 O	T39 414	10/05/00	00/00/01	00000	2 (
8040	•	1.74	0.10	0.06	0.05	70	50.02	3 5	120 414	00/00/01	10/00/00	00/61/01	) 1
8041	•	1.92	20.0	600	300	000	200	3 5	130 413	00/00/01	10/06/00	10/13/00	ပ္ထ
8001	•	0.64	0.01	200	3 6	8 6		200	136 415	10/02/00	10/06/00	10/13/00	ပ္ထ
8034	•	0.89	0.05	20.0	3 6	8 6	500	50.00	138 41/	10/02/00	10/06/00	10/13/00	ပ္ထ
8003	•	9	3 8	3 6	90.0	300	\$0.03		138 418	10/05/00	10/06/00	10/13/00	ပ္ထ
8045	•	Ŗ	0.0	50.0	A.03	<b>4</b> 0.03	<0.03	€0.03	<b>T38 419</b>	10/05/00	10/06/00	10/13/00	9C
		3	90.0	0.02	<b>40</b> .03	<b>6</b> 0.03	<0.03	<0.03	T38 420	10/05/00	10/06/00	10/13/00	ဗ္ဗ
8043	<b>•</b>	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	) (g
8002	•	1.15	Š	0.02	<0.03	<0.03	<0.03	<0.03	T38 422	10/05/00	10/06/00	10/13/00	S a
8036	•	3.14	0.15	0.10	90.0	0.05	<0.03	×0.03	T38 423	10/05/00	10/06/00	10/13/00	2 6
8037	•	2.28	0.09	0.03	0.03	<0.03	<0.03	\$0 0 <b>3</b>	T38 424	10/05/00	000000	2000	) ( 0 0
8023	•	0.75	0.05	0.02	<0.03	50.03	800	20.00	130 704		10,000,00	10/10/00	ָרָ פּוּ
8004	•	0.48	<b>6</b> 00	50	000	500	9 6	9 6	130443	00,000	00/00/01	10/13/00	ပ္ဆ
8012	•	0	2.5	2 0	3 6	50.03	\$0.03 0.03	<0.03	138 426	10/02/00	10/06/00	10/13/00	S S
1 4 5	•	b !	<u> </u>	 	0.05	0.10	<0.03	60.05 60.03	T38 427	10/02/00	10/06/00	10/13/00	S
9070	• •	7.07	9.0	9.0	<0.03	<0.03	<0.03	<0.03	T38 428	10/02/00	10/06/00	10/13/00	- C
0000	•	0.66	90.0	90.0	€0.03	<0.03	<0.03	<0.03	T38 429	10/05/00	10/06/00	10/13/00	0 0
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	) (C
8042	•	0.71	<b>0</b> .03	0.02	<0.03	<0.03	<0.03	<0.03	T38 431	10/05/00	10/06/00	10/13/00	י מ
6008	•	0.84	<b>c</b> 0.01	<0.01	<b>&lt;0.</b> 03	<0.03	<0.03	<0.03	T38 437	10/05/00	10/06/00	10/46/00	2 6
8016	•	0.90	0.02	0.01	<0.03	<0.03	<0.03	<0.03	T38 438	10/05/00	10/06/00	10/46/05	2 6
8039	•	0.65	9.0	0.02	<0.03	<0.03	<0.03	50.05	T38 430	00/90/04	10,0000	2000	) (
8038	•	0.92	0.03	<b>20.07</b>	CO 03	200	000	2 6	100	00000	00/00/01	00/01/01	) a
8035	•	6		2 2	2 4	200	3	50.03	138 440	10/02/00	10/06/00	10/15/00	ပ္ထ
		30.0	3	5.0	<b>5</b> 0.0 <b>3</b>	<b>6</b> .03	<0.03	<0.03	T38 441	10/05/00	10/06/00	10/16/00	ဗ္ဗ
	4		;										
DELECTION CINETS	0.02	0.04	0.01	0,01	0.03	0.03	0.03	0.03					

\* METHANE RESULT TAKEN FROM ALTERNATE DETECTOR



CDM97-203770

\*\*\*\* QUALITY CONTROL \*\*\*\*

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

CONTINUING CALIBRATION STANDARDS 10/13/00

HE IN LOOP 10/13/00

COMPOUND	FILE ID	핕	MEASURED	% DIFF.	COMPOUND	FILE ID	DET. LIMIT	MEASURED
ME HANE (FID)	138 379	30.00	32.28	7.60	METHANE (FID)	T38 384	0.04 PPMV	QN
ETHANE	T38 379	10.00	10.08	0.80	ETHANE	T38 384	0.01 PPMV	2
ETHYLENE	T38 379	10.00	10.06	0.50	ETHYLENE	T38 384	0.01 PPMV	2
PROPANE	T38 379	10.00	10.10	1,00	PROPANE	T38 384	0.03 PPMV	e C
PROPYLENE	T38 379	10.00	10,17	1.70	PROPYLENE	T38 384	0.03 PPMV	2
ISO-BUIANE	138 379	10.00	10,48	4.80	ISO-BUTANE	T38 384	0.03 PPMV	2
N-BOLANE	T38 379	10.00	10.95	9.50	N-BUTANE	T38 384	0.03 PPMV	8

ANALYST INITIALS\_

CDM97-203770

""" QUALITY CONTROL """

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

CONTINUING CALIBRATION STANDARDS 10/16/00	BRATION ST	ANDARDS 10/16	9/00		HE IN LOOP 10/16/00			
COMPOUND	FILEID	FILE ID TRUE CONC. MI	MEASURED	% DIFF.	COMPOUND	FILE 1D	DET. LIMIT	MEASURED
METHANE (FID)	T38 434	30.00	32.40	8.00	METHANE (FID)	T38 436	0.04 PPMV	QN
ETHANE	T38 434	10.00	10.13	1.30	ETHANE	T38 436	0.01 PPMV	9
ETHYLENE	T38 434	10.00	10.14	1.40	ETHYLENE	T38 436	0.01 PPMV	9
PROPANE	T38 434	10.00	10.16	1.60	PROPANE	T38 436	0.03 PPMV	9
PROPYLENE	T38 434	10.00	10.15	1.50	PROPYLENE	T38 436	0.03 PPMV	9
ISO-BUTANE	T38 434	10.00	10.32	3.20	ISO-BUTANE	T38 436	0.03 PPMV	
N-BUTANE	T38 434	10.00	10.17	1.70	N-BUTANE	T38 436	0.03 PPMV	8

ANALYST INITIALS

CDM97 -203770

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

Sample ID	Benzene	Toluene	Ethyl Benzene	M/P Xylene	Ortho	Lab ID	Date	Date	Date	Analyst
8005	< 0.07	< 0.07	< 0.07	< 0.07	×0.07	WIDDASA	Sampled 10/06/00	Kecerved	Analyzed	
9008	< 0.07	< 0.07	<0.05	5 O O 2	500	11,000,00	10/03/00	00/00/01	10/11/01	J.L.
8030	< 0.07	< 0.07	< 0.07	(0°0 V	0.00	W100A55	00/50/01	00/90/01	10/11/00	JLL
8032	< 0.02	2007	500	200	600	W I UUA SO	10/02/00	10/06/00	10/11/00	JLL
8040	000	70.0	/0.0 /	/0°0 >	< 0.07	W100A57	10/05/00	10/06/00	10/11/00	TTF
0040	/0.0/	< 0.07	< 0.07	< 0.07	< 0.07	W100A58	10/02/00	10/06/00	10/11/00	TT
9041	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A59	10/05/00	10/06/00	10/11/00	1 11
1008	< 0.07	0.11	< 0.07	< 0.07	< 0.07	W100A60	10/02/00	10/06/00	10/11/00	- F
8034	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A61	10/02/00	10/06/00	10/11/00	<b>1</b> 1
8003	< 0.07	0.10	< 0.07	< 0.07	< 0.07	W100A62	10/02/00	10/06/00	10/11/00	1
8015	< 0.02	< 0.07	< 0.07	< 0.07	< 0.07	W100A63	10/02/00	10/06/00	10/11/00	<del>-</del>
8043	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A64	10/04/00	10//96/00	10/11/00	1 :
8002	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A65	10/05/00	10/06/00	10/11/00	J. [
8036	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A66	10/02/00	10/06/00	10/11/00	) 
8037	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A69	10/05/00	10/06/00	10/12/00	11.
8023	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A70	10/05/00	10/06/00	10/12/00	3LL
8004	< 0.07	0.11	< 0.07	< 0.07	< 0.07	W100A71	00/20/01	00/00/01	10/17/00	J.L.
8012	< 0.07	< 0.07	< 0.07	<0.00	200	1/1/001 1/1	10/02/00	10/00/00	10/17/00	JLL
8026	< 0.07	< 0.07	6007	000		2/ Y001 W	00/50/01	10/06/00	10/12/00	JLL
8010	2007	10.01	70.0	/0.0 /	, 0,0 ×	W100A73	10/02/00	10/06/00	10/12/00	JLL
8013	7007	0.07	/0'0 >	< 0.07	< 0.07	W100A74	10/05/00	00/90/01	10/12/00	JLL.
6000	/0.0 /	< 0.07	< 0.07	< 0.07	< 0.07	W100A75	10/02/00	10/06/00	10/12/00	JLI,
2400	< 0.07	< 0.07	0.41	< 0.07	< 0.07	W100A76	10/02/00	10/06/00	10/12/00	1.11
6008	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A77	10/05/00	10/06/00	10/12/00	11
8016	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A78	10/05/00	10/06/00	10/12/00	11.
8039	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W1004 79	10/05/00	10,06,00	10/12/00	1.1
8038	< 0.07	< 0.07	< 0.07	< 0.07	2002	W1004 90	000001	00,000	10/17/00	777
8035	<0.0>	100	100	10.0	70.07	W 100A80	10/20/01	10/06/00	10/12/00	JL[
		(n:n)	\0.0\	< 0.07	< 0.07	W100A81	10/02/00	00/90/01	10/12/00	JLL
7										
Detection Limits	0.07	0.07	0.07	0.07	0.07					

Analyst JLC

CDM97 -203770

#### Quality Control

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

Continuing Calibration Standards 10/11/00	Standards 10/17	00/1			N2 in vial 10/11/00			
i							Report, Limit	
Compound	Lab ID	True Conc.	Measured	% Diff.	Compound	Lab ID	(hmdd)	Measured
Benzene	W100A45	1.25	1,31	4.80	Benzene	W100A46	0.07	ND
Toluene	W100A45	90.1	1.11	4.72	Toluene	W100A46	0.07	QN
Ethyl Benzene	W100A45	0.92	0.97	5.43	Ethyl Benzene	W100A46	0.07	QX
M/P Xylene	W100A45	1.84	1.94	5.43	M/P Xylene	W100A46	0.07	QX
Ortho Xylene	W100A45	0.92	0.97	5.43	Ortho Xylene	W100A46	0.07	ę,
		:						
Continuing Calibration Standards 10/12/00	Standards 10/17	00/2			N2 in vial 10/12/00			
							Report, Limit	
Compound	Lab ID	True Conc.	Measured	% Diff.	Compound	Lab ID	(vmqq)	Measured
Benzene	W100A67	1.25	1,30	4.00	Benzene	W100A68	0.07	<del>S</del>
Toluene	W100A67	1.06	1.11	4.72	Toluene	W100A68	0.07	92
Ethyl Benzene	W100A67	0.92	96.0	4.35	Ethyl Benzene	W100A68	0.07	9
M/P Xylene	W100A67	1.84	1.96	6.52	M/P Xylene	W100A68	0.07	9
Ortho Xylene	W100A67	0.92	0.97	5.43	Ortho Xylene	W100A68	0.07	S

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## MICROSEEPS, Inc.

220 William Pitt Way, Pittsburgh, PA 15238

Phone: (412) 826-3245 Fax: (412) 826-3433

PRATA VISTA Fax#: Company Name: Proj. Manager: Proj. Location: Proj. Number: Phone #: Address:

### 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.	G Chlorinated HC	н втех	# BTEX & C5 - C10	K TPH (CS-C10) or (C4-C12)	L C11 - C18	ther Specify below.
If analysis D.E.or K is selected			( CH4, CO, CO2, N2, O2 )	(**)	mbient) or (Source **)	
Analysis Options Note:	(***)C1 -C4	* B Hydrogen & Helium	* C Permanent Gases (C)	D Mercury (Soil) or (Air **)	E TO-14 by GC/MS (Ambient) or (Source **)	€ 601 & 602 Compounds

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

\*\* Available upon request.

Sampler's signamre

Collection	Number of	, somms.	SAMAS.	Sample			
Date Time	Containers	if Can. naed		Identification	ion	Requested Analyses (Other)	Remarks
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Relinquished by :		Company:		Date : Tir	Time :		
Relinquished by:		Company:		Date : Tr	Time :	Receiped by: [   Company:   Company:	10/5/60 Time:

PINK COPY: Submitter

YELLOW COPY: Laboratory

	MICROSEEPS, Inc. 220 William Pitt Way, Pittsburgh, PA 15238 Phone: (412) 826-5245 Fax: (412) 826-3433
Company Name:	RIMYA VISTA
Address:	12555 W TRPPACAN
Proj. Manager:	MERSYAPP
Proj. Location:	CA CA 300G
Proj. Number:	
Phone #:	Fax # :

#### ナトルつしていて CHAIN-OF-CUSTODY RECORD

Note: Enter proper letters in Requested Analyses columns below.

Analysis Options

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

G Chlorinated HC	(H) BTEX	2, 02 ) J BTEX & C5 - C10	K   TPH (G-C10) α (C4-C12)	ca) L C11.C18	Other Specify below.	
A CI -C4	B Hydrogen & Helium	C Permanent Gases (CH4, CO, CO2, N2, O2)	D Mercury (Soil) or (Air **)	E TO-14 by GC/MS (Ambient) or (Source **)	F 601 & 602 Compounds	4

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

\*\* Available upon request,

Sampler's signature :

Collection	Number of	.Summs.	Sample	Sample	
Date Time	Containers	if Can, used	Туре	Identification	Requested Analyses (Other) Remarks
1010 Sq1			\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	8032	A
210)	1			2632	<u> </u>
gl0/ /	1			8033	<u> </u>
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7 1135				800 z	7
04/1 <b>A</b>				සිග3	
Position to :					
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Refinquished by :		Company:		Description of the Police of t	Received by: Time: Company: MCS   10/5/00   Time: 25/00
Relinquinhed by :		Company:		Date : Time :	Deta: (Ö~-6-⇔
Relinquished by:		Company:		Date : Time :	

PINK COPY: Submitter

YELLOW COPY : Laboratory

## MICROSEEPS, Inc.

		88 <b>6</b> 800
220 William Pitt Way, Pittsburgh, PA 15238 Phone: (412) 826-5245 Fax: (412) 825-3433	12555 USTA VISTA 12555 US JEFFESSON  " NEDSCHAFT  " UA CA SCOSE	Fax#:
	Company Name: Address: Proj. Manager: Proj. Location: Proj. Number:	Phone #:

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### CHAIN-OF-CUSTODY RECORD

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

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•	* A /C1 -C4		G Chlorinated HC	HC
#	Hydrogen & Helium	_	(B) BTEX	
<b>U</b>	Permanent Gases	( CH4, C0, C02, NZ, 02 )	J BTEX & CS - C10	5 - C10
۵	Mercury (Soil) o	(Soil) or (Air **)	K TPH (CS-C10) or (C4-C12)	10) or (C4-C12)
E	TO-14 by GC/MS	E TO-14 by GC/MS (Ambient) or (Source **)	L C11 - C18	
N.	F 601 & 602 Compounds	nds	Other Specify below.	۴.

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

\*\* Available upon request.

Sampler's signature:

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PINK COPY: Submitter

YELLOW COPY : Laboratory

## MICROSEEPS, Inc.

220 William Pitt Way, Pittsburgh, PA 15238

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

PLATA VISTA

Company Name:

Address:

Proj. Location: Proj. Manager:

Proj. Number: Phone #:

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. Analysis Options

**K TPH** (CS-C10) ∝ (C4-C12) J BTEX & C5 - C10 G Chlorinated HC Other Specify below, L C11. C18 (H BTEX ( Ambieut ) or ( Source \*\* ) (CH4, CO, CO2, N2, O2 ( Soil ) or ( Air \*\* ) E 601 & 602 Compounds \* B Hydrogen & Helium E TO-14 by GC/MS C Permanent Gases D Mercury (A )C1 -C2

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

Available upon request.

Fax #:

Sampler's signature

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PINK COPY: Submitter

YELLOW COPY : Laboratory

Š 〕∢□ ₽ \* ਨੱ ρ N Ð 4 ဖ ( 0 Θ Φ Lab Batch # CDM 97 Standard Page Remarks 3 Contractor COC # Quote . PO No. Please Hold AND ANALYSIS REQUEST FORM 203776/ CHAIN OF CUSTODY RECORD  $sq_{\ell}$ TOTAL LEAD **ELUORESCENCE** CAPILLARY GC FINGERPRINT No coolers this chipment 4:35 te-scheduling is recommended 130m ١ Authi No Carrier. (CO/5/01 | 61200905-0228 # 10/5/00 EVA D ž Ø 7 COZHK Unknown Tank No. Sample Description Houston, Texas 77042 (713) 785-0393 8023 PO 20 80% 8023 FAX: (713) 785-1550 3698 Westchase Usi Dies 3 2 2 3 Received by: Programme ð Project Merage Poject Directo S thrown Flore 8 88 88 0. 9. Container 4.34 Tethnologies,/Int ≯≺⊢wœ SAMPLE CHARACTERIZATION w C \_ \_ \$ Prik (Contractor), Yellow & White (Lab) 38 345 345 オイサム Time 8 1 Date ۉ Serrator Spread. Project Locator Fed ID Cllent



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. Hand

RJH/lsp

Attachment: CDM94-203744

CDM94 -203744

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

Sample ID	Benzene	Toluene	Ethyl	M/P Xylene	Ortho	Lab ID	Date	Date	Date	Analyst
			Benzene		Xylene		Sampled	Received	Analyzed	is frame
6007	< 0.07	80.0	< 0.07	< 0.07	< 0.07	W99A466	10/02/00	10/03/00	10/02/00	JLL
1009	< 0.07	0,10	< 0.07	< 0.07	< 0.07	W99A467	10/02/00	10/03/00	10/02/00	JLL
8009	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W99A468	10/02/00	10/03/00	00/50/01	111
6014	< 0.03	< 0.07	< 0.07	< 0.07	< 0.07	W99A469	10/02/00	10/03/00	10/02/00	111
6015	< 0.07	< 0.07	< 0.07	0.34	< 0.07	W99A470	10/02/00	10/03/00	10/02/00	JTF.
6002	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W99A471	10/02/00	10/03/00	10/02/00	JIT
6009	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W99A472	10/02/00	10/03/00	10/05/00	JTT
6003	< 0.07	0.00	< 0.07	< 0.07	< 0.07	W99A473	10/02/00	10/03/00	10/02/00	JTT
6016	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W99A474	10/02/00	10/03/00	10/02/00	TT
6022	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W99A475	10/02/00	10/03/00	10/05/00	JII
6017	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W99A476	10/02/00	10/03/00	10/02/00	JEL
	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W99A477	10/05/00	10/03/00	10/02/00	l I
6021	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W99A478	10/02/00	10/03/00	10/02/00	11.1
6010	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W99A479	10/05/00	10/03/00	10/02/00	] [
8709	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W99A480	10/05/00	10/03/00	10/02/00	JIL
Detection Limits	0.07	0.07	0.07	0.07	0.07					

#### Quality Control

CDM94 -203744

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

Continuing Calibration Standards 10/05/00	n Standards 10/05	00/9			N2 in vial 10/05/00			
							Report. Limit	
Compound	Lab ID True Conc	True Conc.	Measured	% Diff.	Compound	Lab ID	(\text{\text{nudd}})	
Зеп <i>zе</i> пе	W99A464	1.25	1.24	1.12	Benzene	W99A465	5 0.07	1
<b>Totuene</b>	W99A464	1.06	1.05	1.32	Toluene	W99A465	0.07	
Ethyl Benzene	W99A464	0.92	0.91	1.52	Ethyl Benzene	W99A465	0.07	CZ
4/P Xylene	W99A464	1.84	1.85	0.49	M.P. Xylene	W99A465 0.07	0.07	9
Ortho Xylene	W99A464	0.92	0.92	0.43	Ortho Xylene	W99A465	0.07	2

Microseeps

CDM94B-203744

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

Sample Names	Methane	Methane	Ethane	Ethylene	Propane	Propylene	so-Butane	N-Butane	ار 5	Date	Date	Date	
	(%%)	(PPMV)	(PPMV)	(PPMV)	(PPMV)	(PPMV)	(PPMV)	(PPMV)		Sampled	Received	Analyzed	Analyst
2002	•	96.0 0	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	60.0	0.08	0.04	0.07	<0.03	<0.03	T38 301	10/02/00	10/03/00	10/11/00	MM
8008	*	0.70	D.03	0.05	<0.03	<0.03	<0.03	<0.03	T38 302	10/02/00	10/03/00	10/11/00	M
8014		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
5002	•	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	Z
6009	•	1,79	0.08	60.0	0.04	0.07	<0.03	<0.03	T38 306	10/02/00	10/03/00	10/11/00	MM
6003	•	1.13	9.0	0.04	<0.03	0.05	<0.03	<0.03	T38 307	10/02/00	10/03/00	10/11/00	MM
6016	•	<u>;</u>	90.0	0.05	0.03	0.05	<0.03	<0.03	T38 308	10/02/00	10/03/00	10/11/00	Σ
6022	٠	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	Σ
6017	•	1.16	9.0	0.03	<0.03	<0.03	<0.03	<0.03	T38 310	10/02/00	10/03/00	10/11/00	M
6027	٠	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	Σ
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	Z
6010	٠	2.33	0,11	0.09	90.0	90:0	<0.03	<0.03	T38 313	10/02/00	10/03/00	10/11/00	MM
6028	*	<del>.</del> .	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					

<sup>•</sup> METHANE RESULT TAKEN FROM ALTERNATE DETECTOR



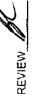
REVIEW A

CDM94B-203744

\*\*\*\*\* QUALITY CONTROL \*\*\*\*\*

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

CONTINUING CALIBRATION STANDARDS 10/11/00	RATION STA	ANDARDS 10/1-	00/1		HE IN LOOP 10/11/00			
COMPOUND	FILE ID	FILE ID TRUE CONC. M	MEASURED	% DIFF.	COMPOUND	FILE 10	DET. LIMIT	MEASURED
METHANE (FID)	T38 270	30.00	32.19	7.30	METHANE (FID)	T38 272	0.04 PPMV	Q
ETHANE	T38 270	10.00	10.02	0.20	ETHANE	T38 272	0.01 PPMV	Q
ETHYLENE	T38 270	10.00	10.03	0.30	ETHYLENE	T38 272	0.01 PPMV	9
PROPANE	T38 270	10.00	10.05	0.50	PROPANE	T38 272	0.03 PPMV	2
PROPYLENE	T38 270	10.00	10.07	0.70	PROPYLENE	T38 272	0.03 PPMV	2
ISO-BUTANE	T38 270	10.00	10.35	3.50	ISO-BUTANE	T38 272	0.03 PPMV	9
N-BUTANE	<b>T38 270</b>	10.00	10.49	4.90	N-BUTANE	T38 272	0.03 PPMV	Q





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## MICROSEEPS, Inc.

220 William Pitt Way, Pittsburgh, PA 15238 Phone: (412) 826-5245 Fax: (412) 826-3433 9000G Fax#: PCR-JA Company Name: Proj. Manager: Proj. Location: Proj. Number: Phone #: Address:

## CHAIN-OF-CUSTODY RECORD

Note: Bater proper letters in Requested Analyses columns below.

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

-4: *	(* A C1 -C4			Chlorinated HC
-	B Hydrogen & Helium	: Helium		STEX
٠ •	Permanent Gases	Gases	( CH4, CO, CO2, N2, 02 )	J BTEX & C5 - C10
۵	Mercury	( Soil ) or ( Air **)	(Air **)	K TPH (CS-C10) or (C4-C12)
3	TO-14 by G	C/MS	TO-14 by GC/MS (Ambient) or (Source **)	L C11 - C18
4	F 601 & 602 Compounds	Compoun	ds.	Other Specify below.

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

\*\* Available upon request.

Sampler's signature:

Collection	tion	Number of	"Summe"	Sample	Sample	
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# MICROSEEPS, Inc.

220 William Pitt Way, Pittsburgh, PA 15238

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

PLANA VISTA

Company Name:

Address:

Proj. Location: Proj. Manager:

Proj. Number: Phone #:

LP MOD/HHLEOZ

CHAIN-OF-CUSTODY RECORD

Note: Enter proper letters in Requested Analyses columns below.

Analysis Options

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

K TPH (CS-C10) or (C4-C12) J BTEX & CS- C10 G Chlorinated HC Other Specify below. L C11 - C18 (II STEX ( CH4, CO, CO2, N2, O2 ) TO-14 by GC/MS (Ambient) or (Source \*\*) ( Soil ) or ( Air \*\* ) E 601 & 602 Compounds T Hydrogen & Helium \* C Permanent Gases D Mercury \*\* DC1 -C4

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

Available upon request.

Fax#:

Sampler's signature:

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PINK COPY: Submitter

YELLOW COPY : Laboratory

220 William Pitt Way, Pittsburgh, PA 15238

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

Company Name:

Proj. Manager: Proj. Location: Proj. Number: Phone #:

Address:

CHAIN-OF-CUSTODY RECORD

PP MOD/ HALEOZ

Note: Enter proper letters in Requested Analyses columns below.

K TPH (C5-C10) or (C4-C12) BTEX & C5 - C10 Note: If analysis D, E, or K is selected, scratch (option) NOT wanted G Chlorinated HC Other Specify below. L C11 - C18 H BTEX (CH4, CO, CO2, N2, O2 ) E TO-14 by GC/MS (Ambient) or (Source \*\*) (Soil) or (Air \*\*) F 601 & 602 Compounds \* B Hydrogen & Helium \* C Permanent Gases Applysis Options D Mercury \$ 12 C

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

Available upon request.

Fax#:

Sampler's signature:

Collection	Number of	*Summus.	Sample	Sample	
Date Time	Containers	if Can. used	Type	Identification	Requested Analyses (Other) Remarks
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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 Microsceps.

Sincerely,

Rebecca I Hank

RJH/Isp

Attachment: CDM99-203803

CDM99 -203803

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

Benzene To	Toluene	Ethyl Benzene	M/P Xylene	Ortho Xylene	Lab ID	Date Sampled	Date Received	Date Analyzed	Analyst
<0.07 < 0.07 < 0.07	< 0.0	~	< 0.07	< 0.07	W100A114	10/01/00	10/10/00	10/16/00	JT.
	< 0.07		< 0.07	< 0.07	W100A115	10/07/00	10/10/00	10/16/00	JT <b>L</b>
<0.07 <0.07 <0.07	< 0.07		< 0.07	< 0.07	W100A116	10/07/00	10/10/00	10/16/00	J.C.L.
<0.07 < 0.07 < 0.07	< 0.07		< 0.07	< 0.07	W100A117	10/07/00	10/10/00	10/16/00	J.L
<0.07 <0.07 <0.07	< 0.07		< 0.07	< 0.07	W100A118	10/07/00	10/10/00	10/16/00	JLT.
<0.07 < 0.07 < 0.07	< 0.07		< 0.07	< 0.07	W100A119	10/01/00	10/10/00	10/16/00	J.T.
	< 0.07		< 0.07	< 0.07	W100A120	10/02/00	10/10/00	10/16/00	JLL
	< 0.07		< 0.07	< 0.07	W100A121	10/02/00	10/10/00	10/16/00	17.
< 0.07	< 0.07		< 0.07	< 0.07	W100A122	10/09/01	10/10/00	10/16/00	JĽĽ
< 0.07	< 0.07		< 0.07	< 0.07	W100A123	10/09/00	10/10/00	10/16/00	J.L.
	< 0.07		< 0.07	< 0.07	W100A124	10/01/00	10/10/00	10/16/00	JTT
	< 0.07		< 0.07	< 0.07	W100A125	10/01/00	10/10/00	10/16/00	JIL
< 0.07	< 0.07		< 0.07	< 0.07	W100A126	00/60/01	10/10/00	10/16/00	1TF
< 0.07	< 0.07		< 0.07	< 0.07	W100A127	10/07/00	10/10/00	10/16/00	JLL
< 0.07	< 0.07		< 0.07	< 0.07	W100A128	10/09/00	10/10/00	10/16/00	J.L.
	< 0.07		< 0.07	< 0.07	W100A129	10/08/00	10/10/00	10/16/00	JTF
<0.07 < 0.07 < 0.07	< 0.07		< 0.07	< 0.07	W100A130	10/04/00	10/10/00	10/16/00	J.L
< 0.07	< 0.07		< 0.07	< 0.07	W100A131	10/04/00	10/10/00	10/16/00	JLL
0.17	< 0.07		< 0.07	< 0.07	W100A132	10/07/00	10/10/00	10/16/00	JTL
< 0.07	< 0.07		< 0.07	< 0.07	W100A133	10/01/00	10/10/00	10/16/00	TI.
0.30	< 0.07		< 0.07	< 0.07	W100A136	10/09/00	10/10/00	10/17/00	JLL
•	< 0.07		< 0.07	< 0.07	W100A137	10/09/00	10/10/00	10/17/00	JLL
	< 0.07		< 0.07	< 0.07	W100A138	10,09,00	10/16/00	10/17/00	111
	< 0.07		< 0.07	< 0.07	W100A139	10/60/01	10/10/00	10/17/00	JLL
	< 0.07		< 0.07	< 0.07	W100A140	10/09/00	10/10/00	10/17/00	11
0.17	< 0.07		< 0.07	< 0.07	W100A141	10/06/00	10/10/00	10/17/00	JĽ
< 0.07	< 0.07		< 0.07	< 0.07	W100A142	10/00/00	10/10/00	10/17/00	JLT 1
< 0.07	< 0.07		< 0.07	< 0.07	W100A143	10/01/00	10/10/00	10/17/00	JLL
< 0.07	< 0.07		< 0.07	< 0.07	W100A144	10/03/00	10/10/00	10/17/00	JLE
<0.07 < 0.07 < 0.07	< 0.07		< 0.07	< 0.07					

Analyst JL

CDM99 -203803

Quality Control

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

Continuing Calibration Standards 10/16/0	n Standards 10/16	00/5			N2 in vial 10/16/00			
<b>.</b>							Report, Limit	
Compound	Lab ID	True Conc.	Measured	% Diff.	Compound	Lab ID	(vmdd)	Measured
Benzene	W100A112	1.25	1.21	3.20	Benzene	W100A113	0.07	Q
Toluene	W100A112	1.06	1.06	0.00	Toluene	W100A113	0.07	2
Ethyl Benzene	W100A112	0.92	0.92	0.00	Ethyl Benzene	W100A113	0.07	Q
M/P Xvlene	W100A112	1.84	1.85	0.54	M/P Xylene	W100A113	0.07	Q
Ortho Xylene	W100A112	0.92	1.01	9.78	Ortho Xylene	W100A113	0.07	QX
Continuing Calibration Standards 10/17/00	n Standards 10/17	00//			N2 in vial 10/17/00			
<b>&gt;</b>							Report. Limit	
Compound	Lab ID	True Conc.	Measured	% Diff.	Compound	Lab ID	(bbmv)	Measured
Benzene	W100A134	1.25	1.32	5.60	Benzene	W100A135	0.07	QN
Toluene	W100A134	1.06	1.08	1.89	Toluene	W100A135	0.07	QN
Ethyl Benzene	W100A134	0.92	0.94	2.17	Ethyl Benzene	W100A135	0.07	Q
M/P Xvlene	W100A134	1.84	1.90	3.26	M/P Xylene	W100A135	0.07	QN
Ortho Xylene	W100A134	0.92	0.94	2.17	Ortho Xylene	W100A135	0.07	2

Analyst J-L

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

CDM99-203803

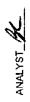
Sample Names	Methane	Methane	Lab ID	Date	Date	Date	
	(%%)	(PPMV)		Sampled	Received	Analyzed	Analyst
2076	*	1.51	T39 323	10/07/00	10/10/00	10/31/00	ည္ထ
7071	٠	2.13	T39 324	10/07/00	10/10/00	10/31/00	တ္ထ
7068	•	1.92	T39 325	10/07/00	10/10/00	10/31/00	ပ္ထ
7065	•	1.75	T39 326	10/07/00	10/10/00	10/31/00	ပ္ထ
7062	•	1.87	T39 327	10/02/00	10/10/00	10/31/00	သူ
7059	•	1.7.1	T39 328	10/07/00	10/10/00	10/31/00	ပ္ထ
7058	•	6.97	T39 329	10/02/00	10/10/00	10/31/00	ပ္ထ
7057		1.72	T39 330	10/07/00	10/10/00	10/31/00	ပ္ထ
7038		2.22	T39 331	10/09/00	10/10/00	10/31/00	ရှ
7041	•	2.32	.T39 332	10/09/00	10/10/00	10/31/00	ပ္ထ
7075	•	2.34	T39 333	10/07/00	10/10/00	10/31/00	ပ္ထ
7072	•	1.11	T39 334	10/02/00	10/10/00	10/31/00	ပ္ထ
7043	•	1.87	T39 335	10/09/00	10/10/00	10/31/00	ပ္ထ
7054		1,21	T39 336	10/02/00	10/10/00	10/31/00	ပ္ထ
7042	*	2.51	T39 337	10/03/00	10/10/00	10/31/00	၁
7047	٠	3.52	T39 338	10/09/00	10/10/00	10/31/00	ပ္ထ
7053	٠	1.38	T39 339	10/07/00	10/10/00	10/31/00	ည္ထ
7035	•	3.11	T39 340	10/07/00	10/10/00	10/31/00	ပ္ထ
7031	•	0.79	T39 341	10/07/00	10/10/00	10/31/00	မှု
9078	•	1.26	T39 342	10/07/00	10/10/00	10/31/00	ပ္ထ
7046	•	2.82	T39 343	10/09/00	10/10/00	10/31/00	8
7050	•	0.91	T39 344	10/09/00	10/10/00	10/31/00	S S
7049	•	2.93	T39 345	10/09/00	10/10/00	10/31/00	ည္ထ
7048	•	3.09	T39 346	10/09/00	10/10/00	10/31/00	8
7045	•	5.39	T39 302	10/09/00	10/10/00	10/30/00	ည္ထ
7051	•	2.36	T39 347	10/09/00	10/10/00	10/31/00	ည္ထ
2022		1.65	T39 348	10/09/00	10/10/00	10/31/00	ဗ္ဗ
7055		2.51	T39 349	10/07/00	10/10/00	10/31/00	BC
7052	•	2.28	T39 350	10/08/00	10/10/00	10/31/00	ရှင

DETECTION LIMITS

9.0

0.05

\* METHANE RESULT TAKEN FROM ALTERNATE DETECTOR



Microseeps

CDM99-203803

\*\*\*\*\* QUALITY CONTROL \*\*\*\*\*

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

CONTINUING CALIBRATION STANDARDS 10/30/00

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

FILE ID T39 280 COMPOUND METHANE (FID)

HE IN LOOP 10/30/00

DET. LIMIT MEASURED 0.04 PPMV ND

ANALYST INITIALS

CDM99-203803

""" QUALITY CONTROL """

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

CONTINUING CALIBRATION STANDARDS 10/31/00

% DIFF. FILE ID TRUE CONC. MEASURED 139 320 30.00 32.35 COMPOUND METHANE (FID)

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

HE IN LOOP 10/31/00

ANALYST INITIALS\_

CDM99-203803

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

Ethane	e Propane Pr	-	N-Butane	Lab ID	Date Sampled	Date Received	Date Analyzed	Analyst
0.03	<0.03	<0.03	<0.03	C22 113	10/07/00	10/10/00	10/18/00	MAM
	€0.03	<0.03	<0.03	C22 114	10/07/00	10/10/00	10/18/00	MAM
0.02	<0.03	<0.03	<0.03	C22 115	10,07700	10/10/00	10/18/00	MAM
	<0.03	<0.03	<0.03	C22 116	10/07/00	10/10/00	10/18/00	MAM
0.04	0.03	<0.03	<0.03	C22 117	10/07/00	10/10/00	10/18/00	MAM
0,04	<0.03	<0.03	<0.03	C22 118	10/07/00	10/10/00	10/18/00	MAM
0.14	0.71	0.14	0.71	C22 119	10/02/00	10/10/00	10/18/00	MAM
0.01	<0.03	<0.03	<0.03	C22 120	10/02/00	10/10/00	10/18/00	MAM
1 <0.01	€0.03	<0.03	<0.03	C22 121	10/60/01	10/10/00	10/18/00	MAM
0.01	<0.03	<0.03	<0.03	C22 122	00/60/01	10/10/00	10/18/00	MAM
0.01	<0.03	<0.03	<0.03	C22 123	00/20/01	10/10/00	10/18/00	MAM
0.07 0.03 <0.03	<0.03	<0.03	<0.03	C22 124	10/07/00	10/10/00	10/18/00	MAM
0.01	<0.03	<0.03	<0.03	C22 125	00/60/01	10/10/00	10/18/00	MAM
1 <0.01	<0.03	<0.03	<0.03	C22 126	10/07/00	10/10/00	10/18/00	MAM
0.01	<0.03	<0.03	<0.03	C22 127	10/09/00	10/10/00	10/18/00	MAM
<0.01	<0.03	<0.03	<0.03	C22 128	10/00/00	10/10/00	10/18/00	MAM
0.01	<0.03	<0.03	<0.03	C22 129	10/01/00	10/10/00	10/18/00	MAM
0.07	0.05	<0.03	<0.03	C22 130	10/07/00	10/10/00	10/18/00	MAM
	<0.03	<0.03	<0.03	C22 131	10/07/00	10/10/00	10/18/00	MAM
0.01	<0.03	<0.03	<0.03	C22 132	10/02/00	10/10/00	10/18/00	MAM
0.02	<0.03	<0.03	<0.03	C22 133	10/06/00	10/10/00	10/18/00	MAM
10.0×	<0.03	Ø.03	<0.03	C22 134	10/09/00	10/10/00	10/18/00	MAM
0.03	<0.03	<0.03	<0.03	C22 135	00/60/01	10/10/00	10/18/00	MAM
_	<0.03	<0.03	<0.03	C22 136	10/06/00	10/10/00	10/18/00	MAM
0.03	<0.03	<0.03	<0.03	C22 137	10/09/00	10/10/00	10/18/00	MAM
0.02	<0.03	<0.03	<0.03	C22 138	10/09/00	10/10/00	10/18/00	MAM
0.03	<0.03	<0.03	<0.03	C22 139	10/03/00	10/10/00	10/18/00	MAM
. 0.01	<0.03	<0.03	<0.03	C22 140	10/02/00	10/10/00	10/18/00	MAM
<0.01	<0.03	<0.03	<0.03	C22 141	10/09/00	10/10/00	10/18/00	MAM
0.01 0.01 0.03		50.0	100					

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.

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\*\*\*\*\* Quality Control \*\*\*\*

---- Camp Dresser McKee -----

CDM99-203803

---- Project: Playavista ----

Continuing Calibration Standards 10/18/00	tandards 10/1	00/8			He in Loop 10/18/00			
							Report. Limit	
Compound	Lab ID True (	True Conc.	Measured	% Diff.	Compound	Lab ID		Measured
Methane	C22 111	30.00	28.35	5.50	Methane	C22 112		£
Ethane	C22 111	10.00	9.17	8.30	Ethane	C22 112		S
Ethylene	C22 111	10.00	9.33	6.70	Ethylene	C22 112		CN CN
Propane	C22 111	10.00	9.19	8.10	Propane	C22 112		2
Propylene	C22 111	10.00	9.34	09'9	Propylene	C22 112		2
I-Butane	C22 111	10.00	9.20	8.00	I-Butane	C22 112		2
N-Butane	C22 111	10.00	9,42	5.80	N-Butane	C22 112	0.03	N

1-4 J

## MICROSEEPS, Inc.

220 William Pitt Way, Pittsburgh, PA 15238 Phone: (412) 826-5245 Fax: (412) 826-3433 POSTA VISTA Fax#: Company Name: Proj. Manager: Proj. Location: Proj. Number: Phone #: Address:

## 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. Analysis Options

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

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

Available upon request.

Sampler's signatured:

Collection	Number of	*Summa. #	Semple Semple	Sample		
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PINK COPY: Submitter

YELLOW COPY: Laboratory

2043

## MICROSEEPS, Inc.

	220 William Pitt Way, Pittsburgh, PA 1523
	Phone: (412) 826-5245 Fax: (412) 826-3433
Company Name;	CATA UISTA
Address:	12555 W JEFFERSON
Proj. Manager:	NEZSAHAT
Proj. Location:	04 CA 40066
Proj. Number:	
Phone #:	Fax #:

## CHAIN-OF-CUSTODY RECORD

Note: Enter proper letters in Requested Analyses columns bolow.
Note: Hanalynis D, R, or K is selected, scratch (option) NOT wanted. Analysis Options

	A C1-C4	G Chlorinated HC
1	Hydrogen & Helium	(H BIEX
٥	Permanent Gases (CE4, CO, CO2, N2, O2 )	BTEX & C5 - C10
a	Mercury (Soil) or (Air **)	K TPH (CS-C10) or (C4-C12)
62	TO-14 by GC/MS (Ambient) or (Source **)	L C11 - C18
2	F 601 & 602 Compounds	Other Specify below.
ŀ		

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

\*\* Available upon request.

Sampler's signature

Collection	Number of	. Summs.	Sample	Sample	ple					
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220 William Pitt Way, Pittsburgh, PA 15238 Phone: (412) 826-5245 Fax: (412) 826-3433 Fax #: Company Name: Proj. Manager: Proj. Location: Proj. Number: Address: Phone #:

## CHAIN-OF-CUSTODY RECORD

Note: Enter proper letters in Requested Analyses columns below.

Apalysis Options

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

l		
3	A C1 -C4	G Chlorinated HC
8	Hydrogen & Helium	# BTEX
O	C Permanent Gases (CH4, CO, CO2, N2, O2 )	BTEX & C5 - C10
a	Mercury (Soil) or (Air **)	K TPH (CS-C10) or (C4-C12)
E	TO-14 by GC/MS (Ambient) or (Sourse **)	L C11 - C18
Œ	E 601 & 602 Compounds	Misse Specify below.

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

\*\* Available upon request.

Sampler's signature .

Collection	Number of	Summe.	Sample	San	Sample			
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		7741104	walls cor! : Laboraty to retire.	ory to return.	YELLOW C	YELLOW COPY: Laboratory PINK COPY: Submitter	Submitter	

CVM14-203803

(d3

## MICROSEEPS, Inc.

	220 William Pitt Way, Pittsburgh, PA 1523 Phone: (412) 826-5245 Fax: (412) 826-3433
Company Name: Address:	RATH WITH 12555 W YEFERSON
Proj. Manager:	NECSCHAT
Proj. Location:	金子
Proj. Number:	
Phone #:	Fax#:

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

Sampler's signature ;

7 CCollection	Number of	Summe.	Semple	Sample	
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PINK COPY: Submitter

YELLOW COPY : Laboratory

MICROSEEPS, Inc.	220 William Fitt Way, Pittsburgh, PA 15238	Phone: (412) 826-5245 Fax: (412) 826-3433	Name: RAMA VISTA	12555 UN OPPTROUN	Ager: WEIZXITMYT	tion: LA CA	iber:	Fax #:	
			Company Name:	Address: [	Proj. Manager:	Proj. Location:	Proj. Number:	Phone #:	

くらいいし ナンスクン

## CHAIN-OF-CUSTODY RECORD

Note: Enter proper letters in Requested Analyses columns below.

cratch (option) NOT wanted.	G Chlorinated HC	Т Втех	BTEX & CS . C10	K TPH (CS-C10) or (C4-C12)	C11 - C18	Jither Specify below.
Note: Hanalynia D, B, or K is selected, scratch (option) NOT wanted.		))	(CH4, CO, CO2, N2, O2 )	(Soil) or (Air **)	E TO-14 by GC/MS (Ambient) or (Source **)	
Analysis Options	(***/C1 -C4	Hydrogen & Helium	* C Permanent Gases	D Mercury (Soil)	E TO-14 by GC/MS	■ € 601 & 602 Compounds

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

Available upon request.

Sampler's signature :

Collection	Number of	. summs.	Sample	Sample			
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220 William Pitt Way, Pittsburgh, PA 15238

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

GETA VISTA

Company Name:

Proj. Manager; Proj. Location: Proj. Number: Phone #:

Address:

CONSOL LOSDUS

CHAIN-OF-CUSTODY RECORD

30/3

Note: Enter proper letters in Requested Analyses columns below.

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

K TPH (CS-C10) or (C4-C12) J BTEX & C5 - C10 G Chlorinated HC H BTEX (CH4, CO, CO2, N2, O2 ) (Soil) or (Air \*\*) \* B Hydrogen & Helium C Permanent Gases D | Mercury

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

( Ambient ) or ( Source \*\* )

Other Specify below. L C11 - C18

Available upon request.

F 601 & 602 Compounds

Fax#:

Sampler's signature

E TO-14 by GC/MS

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PINK COPY : Submitter

YELLOW COPY : Laboratory



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 I Hans

RJH/lsp

Attachment: CDM98-203795

Microseeps

CDM98-203795

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

7063 7064 7066	03.0	T20 264	10/06/00	10/09/00	10072700	MAM
7064 7066	7.00	107 401	****	> > > > > > > > > > > > > > > > > > > >	10/2/100	7477 7747
7066	1.44	T39 265	10/06/00	10/03/00	10/27/00	MAM
	3.50	T39 266	10/06/00	10/09/00	10/27/00	MAM
1069	2.24	T39 267	10/06/00	10/09/00	10/27/00	MAM
7070	1.40	T39 268	10/96/00	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	00/90/01	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	10/22/00	MAM
8017	2.09	T39 274	10/06/00	10/09/00	10/22/00	MAM
1067	5.65	T39 275	10/06/00	10/09/00	10/22/00	MAM
8018	2.42	T39 303	10/06/00	10/09/00	00/30/01	MAM
8019	0.93	T39 304	10/06/00	10/09/00	00/02/01	MAM
8020	4.30	T39 305	10/06/00	10/09/00	10/30/00	MAM
8021	1.62	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
1060	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

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

\*\*\*\*\* Quality Control \*\*\*\*\*

CDM98-203795

---- Project: Playavista -------- Camp Dresser McKee ----

Continuing Calibration Standards 10/27/00

		-	;	•		
Lab ID	True Conc.	Measured	% Diff.	Compound	Lab 1D	(ymdd)
T39 228	30.00	31.80	9.00	Methane	T39 230	0,0 40,0

He in Loop 10/27/00

<u>Q</u>		Σ	<del>Q</del>
0,04	Report. Limit	(ppmv)	0.04
T39 230			T39 280
Methane	He in Loop 10/30/00	Compound	Methane
6.00		% Diff.	10.47
31.80		True Conc. Measured	33.14
30.00	/30/00	True Conc.	30.00

Continuing Calibration Standards 10/30/00

T39 278 Lab ID

Compound Methane

CDM98-203795

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

Analyst	MAM	VIAM	MAM	MAM	MAM	MAM	MAM	MAM	MAM	MAM	MAM																	
	_	_	_	_	_	_																				_	_	
Date Analyzed	10/17/00	10/17/00	10/17/00	10/17/00	10/17/00	10/17/00	10/17/00	10/17/00	10/17/00	10/11/01	10/17/00	10/17/00	10/17/01	10/17/00	10/11/00	10/11/00	10/11/00	10/11/00	10/11/00	10/11/00	10/17/00	10/11/00	10/17/0	10/17/0	10/17/00	10/17/00	10/17/00	
Date Received	10/09/00	10/09/00	10/09/00	10/09/00	00/60/01	00/60/01	00/60/01	10/06/00	00/60/01	00/60/01	00/60/01	10/09/00	10/00/00	10/03/00	10/09/00	10/03/00	10/09/00	10/03/00	10/60/01	10/09/00	10/00/00	10/69/01	10/60/01	10/60/01	10/09/00	10/60/01	10/60/01	
Date Sampled	00/90/01	00/90/01	10/06/00	00/90/01	10/06/00	10/06/00	10/06/00	10/06/00	10/06/00	10/06/00	10/06/00	10/06/00	10/06/00	10/06/00	10/06/00	10/06/00	10/06/00	10/06/00	10/06/00	10/06/00	10/06/00	10/06/00	10/06/00	10/06/00	10/06/00	10/06/00	00/90/01	
Lab ID	C22 80	C22 81	C22 82	C22 84	C22 85	C22 86	C22 87	C22 88	C22 89	C22 90	C22 91	C22 92	C22 93	C22 94	C22 95	C22 96	C22 97	C22 98	C22 99	C22 100	C22 101	C22 102	C22 103	C22 104	C22 105	C22 106	C22 107	
N-Butane	< 0.03	< 0.03	90'0	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	90'0	< 0.03	< 0.03	< 0.03	< 0.03	0.11	< 0.03	< 0.03	< 0.03	0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	
f-Butane	< 0.03	< 0.03	0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	
Propylene	0.04	< 0.03	0.07	< 0.03	0.05	< 0.03	70.0	0,12	< 0.03	< 0.03	< 0.03	0.0	0.05	< 0.03	< 0.03	< 0.03	99.0	< 0.03	< 0.03	0.03	0.45	< 0.03	0.03	0.07	0.05	0.04	< 0.03	
Propane	50:0	< 0.03	60.0	< 0.03	0.03	< 0.03	0.0 4	0.05	0.04	0.07	< 0.03	0,11	0.04	< 0.03	< 0.03	< 0.03	0.27	< 0.03	< 0.03	0.04	0.17	< 0.03	< 0.03	0.05	0.05	< 0.03	< 0.03	
Ethylene	0.07	0.02	0.08	0.01	0.07	0.02	60'0	0.18	0.04	0.04	0.03	0.12	0.07	0.01	0.03	0.03	0.82	0.02	< 0.01 	0.04	99.0	0.03	50.0	0.10	90.0	0.05	0.02	
Ethane	0.14	90.0	0.24	0.01	60.0	0.03	0.10	0.12	0.13	0.20	0.09	0.27	0.10	0.03	90.0	0.04	0.59	90'0	0.03	60.0	0.40	90:0	0.08	0.18	0.13	0.07	0.02	
Methane	17.02	16.97	16,91	17.29	15.00	14.51	12.38	15.96	13.18	17.94	12.80	18.08	15.32	11.57	13.96	13.55	18.90	11.96	13.02	13.83	16.72	12.31	13.78	13.72	12.72	14.41	12.32	
Sample ID	7063	7064	7066	7069	7070	7073	7074	8007	8013	8014	8017	7067	8018	6108	8020	8021	8022	7061	1060	8027	8008	8011	8024	8025	8028	8029	8031	

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

0.03

0.03

0.03

0.01

0.01

Detection Limits 0.04

CDM98-203795

\*\*\*\*\* Quality Control \*\*\*\*

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

Continuing Calibration Standards 10/17/00	ndards 10/17/	00			He in Loop 10/17/00			
Community Comprants	I of some	3			1		Report. Limit	
priormo	CI de I	True Conc.	Measured	% Diff.	Compound	Lab ID	(bpmv)	Measured
Mathons	22 22	30.00	28.38	5.40	Methane	C22 79	0.04	S
Tehone	C22 78	00 01	0.30	7.00	Ethane	C22 79	0.01	Q
	C22 78	10.01	0.37	6.30	Ethviene	C22 79	0.01	9
Ethylene	027 70	00.01	0.00	7.30	Dronana	C22 79	0.03	見
Propane	277.78	10,00	9,20	00.9	Propylene	C22 79	0.03	9
Propyrene I Butana	C22 78	10.00	9.35	6.50	I-Butane	C22 79	0.03	문
N-Butane	C22 78	10.00	9,45	5.50	N-Butane	C22 79	0.03	S

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	00/90/01	10/09/00	10/12/00	JLL
7064	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A83	10/06/00	10/06/00	10/17/00	J.L.
7066	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A84	00/90/01	10/60/00	10/12/00	JLL
7067	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A85	00/90/01	10/00/00	10/12/00	JLL
. 6902	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A86	00/90/01	10/09/00	10/12/00	JTT
7070	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A87	10/90/01	10/09/00	10/12/00	JTL
7073	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A88	10/06/00	10/03/00	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	00/60/01	10/13/00	77.
8018	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A97	10/06/00	00/60/01	10/13/00	JLL
8019	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A98	10/06/00	10/60/01	10/13/00	JTT
8020	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A99	10/06/00	10/06/01	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	10/06/01	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
1060	< 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	10/90/01	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	JTT
8024	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A107	00/90/01	10/06/00	10/13/00	JLL
8025	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A108	00/90/01	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	W100AI10	00/90/01	10/09/00	10/13/00	JLL
. 8031	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100AI11	00/90/01	00/60/01	10/13/00	JTL
Detection Limits	0.07	0.07	0.07	0.07	0.07					

Analyst JLL

10/16/00

CDM98 -203795

## Quality Control

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

Continuing Calibration Standards 10/12/00	Standards 10/12	00/7			N2 in vial 10/12/00		Renort Timit	
Compound	Lab ID	True Conc.	Measured	% Diff.	Compound	Lab ID	(ppmv)	Measured
Benzene	W100A67	1.25	1.29	3.20	Benzene	W100A68	0.07	QN
Toluene	W100A67	1.06	1.11	4.72	Toluene	W100A68	0.07	ΩN
Ethyl Benzene	W100A67	0.92	96'0	4.35	Ethyl Benzene	W100A68	0.07	QN
M/P Xylene	W100A67	<u>2</u> .	1.96	6.52	M/P Xylene	W100A68	0.07	ND
Ortho Xylene	W100A67	0.92	0.97	5.43	Ortho Xylene	W100A68	0.0	ΩN
Continuing Calibration Standards 10/13/00	Standards 10/13	00/1			N2 in vial 10/13/00			
3		,					Report, Limit	
Compound	Lab ID	True Conc.	Measured	% Diff.	Compound	Lab ID	(bbmv)	Measured
Benzene	W100A90	1.25	1.37	09'6	Benzene	W100A91	0.07	Q.
Toluene	W100A90	1.06	1.17	10.38	Toluene	W100A91	0.07	2
Ethyi Benzene	W100A90	0.92	1.02	10.87	Ethyl Benzene	W100A91	0.07	QN
M/P Xylene	W100A90	1.84	2.07	12.50	M/P Xylene	W100A91	0.07	Ð
Ortho Xylene	WI00A90	0.92	1.0 1.0	13.04	Ortho Xylene	W100A91	0.07	Z

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

12555 W DEFFEISON

SUST CST

Company Name:

Address:

Proj. Location: Proj. Manager:

Proj. Number: Phone #:

Fax #:

Sampler's signante:

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William	

CHAIN-OF-CUSTODY RECORD

182115-CUM781

Note: Enter proper letters in Requested Analyses columns below.

Analysis Options

Note: If analysis D, B, or K is selected, seratch (option) NOT warried.

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

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

Available upon request.

Date   True   Consistent   (Con. unad   Trye   SO   V   H   H   H   H   H   H   H   H   H	Collection	Number of	.Summs.	Sample	Sample	a				
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PINK COPY: Submitter

YELLOW COPY : Laboratory

MICROSEEPS, Inc.	220 William Pitt Way, Pittsburgh, PA 15238 Phone: (412) 826-5245 Fax: (412) 826-3433	DAM VISTA	(2) C 44/20	WER2S(HA)	14 CA 90066	
		Company Name:	Address:	Proj. Manager:	Proj. Location:	Proj. Number:

# 405765-C11111982 CHAIN-OF-CUSTODY RECORD

Note: Enter proper letters in Requested Analyses columns below.

K TPH (CS-C10) or (C4-C12) J BTEX & C5 - C10 Note: If analysis D, E, or K is selected, scratch (option) NOT wanted, G Chlorinated HC Other Specify below. L C11 - C18 (II BTEX (CH4, CO, CO2, N2, O2 ) E TO-14 by GC/MS (Ambient) or (Source \*\*) (Soil) or (Air \*\*) F 601 & 602 Compounds \* B Hydrogen & Helium \* C | Permanent Gases Analysis Options D | Mercury \*\* K 151-C4

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

Available upon request.

Fax #:

Phone #:

Sampler's signantee

Collection	Number of	Summer.	Semple	Sample	
Date Time	Containers	if Can. used	15. 15. 15. 15. 15. 15. 15. 15. 15. 15.	Identification	Requested Analyses (Other)
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Relinquished by :		Company:		Date :	
		•			Company: Date: Time:

PINK COPY: Submitter

YELLOW COPY : Laboratory

## WICEOSEEDS Inc

	MICHOSEEI S, IIIC.	
	220 William Pitt Way, Pittsburgh, PA 15238 Phone: (412) 826-5245 Fax: (412) 826-3433	
;	2	<b>₹</b>
Company Name: Address:	CONTRACTOR MICHAEL	2 bill
Proj. Manager:	NED SCHAT	
Proj. Location:	14 CA 5006	
Proj. Number:		
Phone #:	Fax #:	
1		l

## 2031755UM78 3

## CHAIN-OF-CUSTODY RECORD

Note: Enter proper letters in Requested Analyses columns below.

H4, CO, CO2, N2, O2 )	HC \$- C10 10) or (C4-C12)
18 601 & 602 Compounds Specification Compounds	-

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

\*\* Available upon request.

Sampler's signach

Collection	Number of	* Summs.	Sales Sales	Sample	<b>7.</b>			
Date Time	Containers	if Can. used	Type	Identification	ion	Requested Analyses	(Other)	Remarks
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Relinquished by :		Company :		Des:	Time:	Received by :	Company:	Date : Time :
		WHITE	WHITE COPY : Laboratory to return.	tory to return.	YELLOW O	YELLOW COPY : Laboratory PINK COPY : Submitter	Submitter	

MICROSEEPS, Inc. 220 William Pitt Way, Pittsburgh, PA 15238 Phone: (412) 826-5245 Fax: (412) 826-3433 Fax#: Company Name: Proj. Manager: Proj. Location: Proj. Number: Phone #: Address:

## 203115-CUM104 CHAIN-OF-CUSTODY RECORD

Note: Hazalysis D, B, or K is selected, scratch (option) NOT wanted.

Analysis Options

Note: Enter proper letters in Requested Analyses columns below.

* B         Hydrogen & Helium         ★ Helium         ★ BTEX         ★ C5 - C10           * €         Permanent Gases         (CH4, C0, C02, N2, O2 )         ★ BTEX & C5 - C10           * €         Permanent Gases         (CH4, C0, C02, N2, O2 )         ★ TPH (C5 - C10) or (C4-C1)           * ☐         TO-14 by GC/MS         (Ambient) or (Source **)         ★ C11 - C18           * ☐         F         C11 - C18           * ☐         G01 & 601 & 602 Compounds         Olber         Specify below.	V	(A.)C1 -C4	G Chlorinated HC
( CH4, CO, CO2, N2, O2 ) ( c ( Air **) ( Ambient ) or ( Source ** ) ( ounds	<b>6</b> 2	Hydrogen & Helium	(H) BTEX
mbient ) or ( Source ** )	0		J BTEX & C5 - C10
mbient) or ( Source ** )	a		K TPH (C3-C10) or (C4-C12)
	3	TO-14 by GC/MS (Ambient) or (Source **)	L C11 - C18
	4	601 & 602 Compounds	Office Specify below.

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

Sampler's signanire :

Collection	Number of	.Somme.	Sample	Sample	<u> </u>					
Date Time	Containers	if Cun. paed	. 经	Identification	ıtion	Requested Analyses	Analyses	(Other)	Kemarks	
06 30				7077		<<				
200				7073		Z				
35			/	7074		4				
025/	_		/	7074		T				
700	_		/	3906		1				
325	_			9906		£				
526	_			7047		<b>Z</b>				
330	_			1001		£				
32.5			_	7069		4				
248				6,901		4				
345	_		- / / · / · / · / · / · / · / · / · / ·	1901		4				
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Relinquished by :		Company:	į	Date :	Time :	Received by :		Сопрану:	Dete:	Time :
					7100 1111	in the second	PINK COPY - Submitter	Submitter		
		WHITE	WHITE COPY : Laboratory to return.	lory to refurn.	YELLOW	YELLOW COPT: LEGGRAPHY	THIN CALL			

203113 - 111110

CHAIN-OF-CUSTODY RECORD

220 William Pitt Way, Pittsburgh, PA 15238

	Phone: (412) 826-5245 Fax: (412) 826-3433		Note: Exter proper letters in Requested Analyses columns below.	uested Analyses columns below.
	ũ	Analysis Options	Note: If analysis D.E.or K is sele	Note: If analysis D.E.or K is selected, soratch (option) NOT wanted.
Company Name:	NST4	f A C1 -C4		G Chlorinated HC
Address:	2555 W) JEH SIRSON	*B Hydrogen & Helium	un	(H BTEX
Proj. Manager:	NEDYCHET	* C Permanent Gases	C Permanent Gases (CH4, CO, CO2, N2, O2 )	BTEX & C5 - C10
Proj. Location:	14 CA 90066	D Mercury (Soil) or (Air **)	) or ( Air ** )	K TPH (CS-C10) cm (C4-C12)
Proj. Number:		E TO-14 by GC/MS	E TO-14 by GC/MS (Ambiest) or (Source **)	C11 - C18
Phone #:	Fax#:	<b>■ F</b> 601 & 602 Compounds	spuno	Officer Specify below.
			of sample is required when requeste	An additional 22 ml vial of sample is required when requested in combination with another analysis.
Sampler's signamic		Available upon request.		

Remarks

Requested Analyses

Identification

if Can. used

Time 32

Date

Number of Containers

Collection

3282

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Results to :				Invoice to :			
	TOTOTATATATATATATATATATATATATATATATATAT						
Elinqui tred by :	Company:	239-F2/	Time:	Registed by: ( Clean for	Company:	Deta: /0-9-00	Time : //000
Relinquished by:	Company:	Date :	Time :	Received by :	Соправу:	Dete :	Time :
Relinquished by :	Company:	Date :	Time:	Received by :	Company:	Date :	Time :
	WHITE COPY : Laboratory to return.	tory to return.	YELLOW C	YELLOW COPY : Laboratory PINK COPY : Submitter	ubmitter		



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. Hanš

RJII/lsp

Attachment: CDM101-203811

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	10/17/00	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	JIT
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	10/15/00	10/18/00	JLL
9030	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A172	10/11/00	10/17/00	10/18/00	JLL
9013	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A173	10/11/00	10/17/00	10/18/00	JLL
9033	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A174	10/11/00	10/17/00	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	10/17/00	10/18/00	JTF
9041	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	WI00A177	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	WI00A181	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	10/13/00	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	JLF
9022	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A187	10/11/00	10/12/00	10/19/00	JLF
5006	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A188	10/11/00	10/12/00	00/61/01	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	00/61/01	JLL
1006	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A191	10/11/00	10/12/00	10/19/00	TT
9014	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A192	10/11/00	10/12/00	10/19/00	JLL
6006	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A193	10/11/00	10/12/00	10/15/00	JTL
9018	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A194	10/11/00	10/12/00	00/61/01	JLL
9032	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A195	10/11/00	10/12/00	10/16/00	JTT
6£06	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A196	10/11/00	10/12/00	10/61/01	JLL.
DetectionLimits	0.07	0.07	0.07	0.07	0.07					

Analyst JLL

10/20/00

CDM101-203811

\*\*\*\*\* Quality Control \*\*\*\*

---- Camp Dresser & McKee ----

---- Location: Playavista ----- Concentrations in PPMV ----

Continuing Calibration Standards 10/18/00	Standards 10/18/	00/			N2 in vial 10/18/00		Report. Limit	
Compound	LabID	True Conc.	Measured	% Diff.	Compound	Lab ID	(ppmv)	Measured
Benzene	W100A157	1.25	1.18	5.60	Вепzепе	W100A158	0.07	Q Z
Toluene	W100A157	1.06	1.03	2.83	Toluene	W100A158	0.07	£
Tthut Benzene	W100A157	0.92	0.92	00'0	Ethyl Benzene	W100A158	0.07	£
M/P Yvlene	W100A157	1.84	1.83	0.54	M/P Xylene	W100A158	0.07	2
Ortho Xylene	W100A157	0.92	0.91	1.09	Ortho Xylene	W100A158	0.07	見
Continuing Colibration Standards 10/19/00	Standatds 10/19	00/			N2 in vial 10/19/00			
Community Cantonamon							Report. Limit	
pamouno	Tab ID	True Conc.	Measured	% Diff.	Compound	Lab ID	(hbmv)	Measured
Donzona	W1004179	1.25	1.25	0.00	Benzene	W100A180	0.07	Ê
Delizene	W1004179	1 50	1 08	1.89	Toluene	W100A180	0.07	包
loluene	C112001W	50.1	0.05	3.76	Fthyl Benzene	W100A180	0.07	£
Ethyl Benzene	WIOUA1/9	76'0	66.0	2.20		0011001111	60.0	Ę
M.P Xylene	W100A179	1.84	1.92	4.35	M/P Xylene	WIOUAISU	0.0	9 9
Ortho Xylene	W100A179	0.92	96'0	4.35	Ortho Xylene	W100A180	0.07	J.



CDM101-203811

Sample Names	Methane	Methane	Ethane	Ethylene	Propane	Propylene	so-Butane	N-Butane	Cab ID	Date	Date	Date	
	(%)	(PPMV)	(PPMV)	(PPMV)	(PPMV)	(PPMV)	(PPMV)	(PPMV)		Sampled	Received	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	60'0	0.16	<0.03	9.0	T39 199	10/11/00	10/12/00	10/26/00	MM
9045	•	2,85	0.12	0.06	0.04	0.06	90.0	<0.03	T39 200	10/11/00	10/12/00	10/26/00	WW
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	Σ
9047	•	1.21	0,14	0.10	0.04	0.0	<0.03	<0.03	T39 202	10/11/00	10/12/00	10/26/00	M
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	90.0	0.12	T39 204	10/11/00	10/12/00	10/26/00	WW
9033	•	4.18	0.21	0.13	0.10	0.0	<0.03	0.04	T39 205	10/11/00	10/12/00	10/26/00	MM
9017	٠	35.2	0.54	0.33	0.21	0.24	0.04	90.0	T39 206	10/11/00	10/12/00	10/26/00	MM
9034	•	8.75	0.44	0,17	60.0	0.11	<0.03	<0.03	T39 207	10/11/00	10/12/00	10/26/00	Σ
9041	•	20.3	0.23	0.17	90.0	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. 19.	0.69	0.42	0.30	0.32	0.0	0.13	T39 210	10/11/00	10/12/00	10/26/00	MM
9026	٠	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	Z Z
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 48.	0.32	0.32	0.12	0.20	<0.03	<0.03	T39 214	10/11/00	10/12/00	10/26/00	MM
9005	•	2.34	0.12	0.11	9.0	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	20.0	0.11	T39 218	10/11/00	10/12/00	10/26/00	MM
9028	0.10	•	0.22	0.11	0.25	20.0	0.08	0.10	T39 219	10/11/00	10/12/00	10/26/00	MM
8028	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
6006	٠	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	20.0	0.10	T39 223	10/11/00	10/12/00	10/26/00	MM
9032	•	1.61	0.13	0.11	90.0	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	90:0	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.





CDM101-203811

## \*\*\*\*\* QUALITY CONTROL \*\*\*\*\*

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

CONTINUING CALIBRATION STANDARDS 10/26/00	RATION STA	NDARDS 10/2	9,00		HE IN LOOP 10/26/00			
COMPOUND	FILE 10	FILE ID TRUE CONC. MI	MEASURED	% DIFF.	COMPOUND	FILE 1D	DET. LIMIT	MEASURED
METHANE (FID)	T39 169	30.00	32,12	7.07	METHANE (FID)	T39 171	0.04 PPMV	QN
ETHANE	T39 169	10.00	88.6	1.20	ETHANE	T39 171	0.01 PPMV	Q
ETHYLENE	T39 169	10.00	9.83	1.70	ETHYLËNE	T39 171	0.01 PPMV	2
PROPANE	T39 169	10.00	9.80	2.00	PROPANE	T39 171	0.03 PPMV	
PROPYLENE	T39 169	10.00	9.82	1.80	PROPYLENE	T39 171	0.03 PPMV	9
ISO-BUTANE	T39 169	10.00	10,21	2.10	ISO-BUTANE	T39 171	0.03 PPMV	
N-BUTANE	<b>T39 169</b>	10.00	10.46	4.50	N-BUTANE	T39 171	0.03 PPMV	

ANALYST INITIALS DE

220 William Pitt Way, Pittsburgh, PA 15238

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

PAYA A

Company Name:

Address:

Proj. Location: Proj. Manager:

Proj. Number: Phone #:

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2038
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## CHAIN-OF-CUSTODY RECORD

Note: Enter proper letters in Requested Analyses columns below.

Analysis Options

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

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

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

Available upon request.

Fax #:

Sampler's signature \

Collection	Number of	#. summs.	Sample	Sample	
Dete Time	Containers	if Can, used	Type		Requested Analyses (Other) Remarks
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PINK COPY: Submitter

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	MICROSEEPS, In
	220 William Pitt Way, Pittsburgh, PA 1523
	Phone: (412) 826-5245 Fax: (412) 826-3433
Сопрапу Name:	PLATE LISTA
Address:	(105 a5 45th 3) (2052)
Proj. Manager:	NED ACTION
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CHAIN-OF-CUSTODY RECORD 203881/con 100

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

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F 601 & 602 Compounds Other	Other Specify below.

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

Available upon request. \*

Sampler's signature :

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YELLOW COPY : Laboratory

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

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William
220

Fax #: N+725K KM RMTA Company Name: Proj. Location: Proj. Manager: Proj. Number: Phone #: Address:

203811/COM 100 CHAIN-OF-CUSTODY RECORD

Note: Enter proper letters in Requested Analyses columns below.

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

<b>CA</b> C1 -C4		Chlorinated HC
🗷 Hydrogen & Helium		A BTEX
C Permanent Gases (CH4,	( CH4, CO, CO2, N2, O2 )	J BTEX & C5 - C10
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An additional 22 ml vial of sumple is required when requested in combination with another analysis.

\*\* Available upon request.

Sampler's signature.

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220 William Pitt Way, Pittsburgh, PA 15238

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

RATA VISTA

Соправу Name:

Address:

Proj. Location: Proj. Manager:

Proj. Number: Phone #:

2038(1) COM 10P

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CHAIN-OF-CUSTODY RECORD

Note: Enter proper letters in Requested Analyses columns below.

Analysis Options

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

*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 - C           E         TO-14 by GC/MS         (Ambient) or (Source ***)         L         C11 - C18           F         601 & 602 Compounds         Oither         Specify below.		***/C1 -C4	Chlorinated HC
r **)  r a*)  mbient ) or ( Source ** )	4 B	Hydrogen & Helium	BTEX
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mbient) or (Source ** )	D		K TPH (CS-C10) at (C4-C12)
	0	TO-14 by GC/MS (Ambient) or (Source **)	L CII - CI8
	J	601 & 602 Compounds	Other Specify below.

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

\*\* Available upon request,

Fax#:

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PINK COPY: Submitter

YELLOW COPY : Laboratory

220 William Pitt Way, Pittsburgh, PA 15238

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

DATA VISTA

Company Name:

Proj. Manager: Proj. Location: Proj. Number: Phone #:

Address:

203811 / COM 100 C CHAIN-OF-CUSTODY RECORD

Note: Enter proper lettern in Requested Analyses columns below.

Analysis Options

K TPH (CS-C10) or (C4-C12) BTEX & CS - C10 Note: If analysis D.B.or K is selected, soratch (option) NOT wanted. G Chlorinated HC Other Specify below. L C11.C18 H BTEX (CH4, C0, C02, N2, 02 ) TO-14 by GC/MS (Ambient) or (Sourse \*\*) D Mercury (Soil) or (Air\*\*) F 601 & 602 Compounds \* B Hydrogen & Helium \* C | Permanent Gases \* & XC1 -C4

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

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PINK COPY: Submitter

YELLOW COPY : Laboratory



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

CDM102-203827

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

	Mothana	Mothone	H Contraction	Ethylone	Proposed	Propylana	lso-Butane	N-Butane	Gl de l	Date	Date	Date	
Sample Names		(PPMV)	(PPMV)	(PPMV)	(PPMV)	(PPMV)	(PPMV)	(PPMV)		Sampled	Received	Analyzed	Analyst
9054		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
903	٠	0 0 0 0 0	0.20	0.21	0.07	0.13	< 0.03	< 0.03	T39 252	10/12/00	10/13/00	10/27/00	Σ
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	Σ
9030	•	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
9043	•	2.07	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	90.0	T39 257	10/12/00	10/13/00	10/27/00	MM
9040	•	9.69	0.38	0.30	0.26	0.24	0.11	0.11	T39 258	10/12/00	10/13/00	10/27/00	MΜ
9050	•	168	0.37	0.19	0.16	0.22	0.0 20.0	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
900		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
9000		1.20	800	0.06	0.03	0.04	< 0.03	< 0.03	T39 262	10/12/00	10/13/00	10/27/00	Σ
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

ANALYSTAME.

CDM102-203827

\*\*\*\* QUALITY CONTROL \*\*\*\*

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

CONTINUING CALIBRATION STANDARDS 10/27/00

HE IN LOOP 10/27/00

COMPOUND	FILE	TRUE CONC.	MEASURED	% DIFF.	COMPOUND		DET. LIMIT	MEASURED
METHANE (FID)	T39 228	30.00	31.80	0.00	METHANE (FID)	T39 230	0.04 PPMV	운
	T39 228	10.00	9.84	1.60	ETHANE		0.01 PPMV	
	T30 228	10.00	62.6	2.15	<b>田JHJ LEVE</b>		0.01 PPMV	
	T30 228	10.00	97.0	210	PROPANE		0.03 PPMV	
	T30 228	0.00	. o	2.00	PROPYLENE	T39 230	0.03 PPMV	Q
ISO.B. ITANE	T39 228	10.00	10.26	2.60	ISO-BUTANE		0.03 PPMV	
N-BUTANE	T39 228	10,00 10,65 6.50	10.65	6.50	N-BUTANE		0.03 PPMV	

ANALYST INITIALS NE.

CDM102 -203827

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

Sample ID	Benzene	Toluene	Ethyl	M/P Xylene	Ortho	Lab ID	Date	Date	Date	Analyst	
0.000			Delizelle		Aylene		Sampled	Keceived	Analyzed		
9038	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A197	10/17/00	10/13/00	10/19/00	JLT	
9040	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A198	10/12/00	10/13/00	10/19/00	] []	
9042	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A199	10/12/00	10/13/00	10/19/00	1	
9036	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W1004200	10/12/00	10/13/00	10/10/00	11.	
9050	< 0.07	V 0 0 V	< 0.07	2007	500	W1004204	10/12/00	10/13/00	00/00/01	77.	
0061	100	2 6	1000	10.0	100	4074001 W	10/12/00	10/13/00	10/27/00	777	
1006	< 0.07	/0°0 >	< 0.07	< 0.07	< 0.07	W100A205	10/12/00	10/13/00	10/20/00	7.T	
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	II.I.	
9052	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A208	10/12/00	10/13/00	10/20/00	11.1	
9053	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A209	10/12/00	10/13/00	00/06/01	] [	
9054	< 0.07	< 0.07	<0.07	< 0.07	< 0.07	WIODARD		00/01/01	000000	1	
9900					1000	1100011		10/13/00	00/07/01	J.J.	
9033	< 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						

Analyst JU

\*\*\*\*\* Quality Control \*\*\*\*

CDM102-203827

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

Measured Measured Report. Limit Report. Limit (bbmv) (vmqq) 0.07 0.07 0.07 0.07 0.07 0.07 W100A180 W100A180 W100A180 W100A180 W100A203 W100A203 W100A180 Lab ID Lab ID N2 in vial 10/19/00 N2 in vial 10/20/00 Ethyl Benzene Ortho Xylene M/P Xylene Compound Compound Benzene Toluene Toluene Benzene % Diff. % Diff. 3.26 4.35 1.89 0.94 0.0 Measured Measured 96'0 1.08 0.95 1.92 1.05 True Conc. True Conc. 0.92 1.06 0.92 1.84 1.06 1.25 Continuing Calibration Standards 10/19/00 Continuing Calibration Standards 10/20/00 W100A179 W100A179 W100A179 W100A179 W100A202 W100A202 W100A179 Lab ID Lab ID Ethyl Benzene Ortho Xylene M/P Xylene Compound Compound Benzene Benzene Toluene Toluene

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Ethyl Benzene

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W100A202 W100A202 W100A202

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M/P Xylene

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Analyst JUL/ mym

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	MICHOSEFFS, I
	220 William Fill Way, FillSourgn, FA 1 Phone: (412) 826-5245 Fax: (412) 826-3433
Ompany Name:	DATA VISTA
Address:	12555 W 75H78/20
roj. Manager:	MERSCHAL
roj. Location:	14 CA COCC6
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#### 101 MUD/100000

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#### CHAIN-OF-CUSTODY RECORD

Note: Enter proper letters in Requested Analyses columns below.

K TPH (CS-C10) or (C4-C12) BTEX & CS - C10 Note: If analysis D, E, or K is selected, scratch (option) NOT wanted. G Chlorinated HC Other | Specify below. L C11 - C18 E BTEX ( CH4, CO, CO2, NZ, O2 ) ( Ambient ) or ( Source \*\* ) (Soil) or (Air \*\*) F 601 & 602 Compounds \* B Hydrogen & Helium E TO-14 by GC/MS \* C Permanent Gases Analysis Options D Mercury \*\* C1-C4

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

\*\* Available upon request.

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PINK COPY: Submitter

YELLOW COPY : Laboratory

220 William Pitt Way, Pittsburgh, PA 15238

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

Fax#: PLAYTA VISTA Company Name: Proj. Manager: Proj. Location: Proj. Number: Phone #: Address:

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#### CHAIN-OF-CUSTODY RECORD

Note: Enter proper letters in Requested Analyses columns below.

K TPH (CS-C10) or (C4-C12) BTEX & C5 C10 Note: If analysis D, E, or K is selected, soratch (option) NOT wanted. G Chlorinated HC L C11 - C18 TI BTEX (CH4, CO, CO2, N2, O2 ) (Ambient) or (Source \*\*) (Soil) or (Air \*\*) \* B Hydrogen & Helium E TO-14 by GC/MS \* C Permanent Gases Analysis Options D Mercury C1 -C4

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

Other Specify below.

Available upon request.

Sampler's signature : 4

F 601 & 602 Compounds

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220 William Pitt Wav. Pittsburgh, PA 15238

	Thore: (412) 826-5245 Fax: (412) 826-3433
Company Name:	PLATIA VISTA
Address:	(2555 W JEFF4880N
Proj. Manager:	NERSCHA9-
Proj. Location:	LA CA GOODS
Proj. Number:	
Phone #:	Fax#:

7 7	n \$
203827/ CDM 107	CHAIN-OF-CUSTODY RECORD

Note: Enter proper letters in Requested Analyses columns below.

An	Analysis Options	Note: If analysis D, E, or K is sele	Note: Example D. B. or K is selected, scratch (option) NOT wanted.
4	C1 -C4		Chlorinated HC
	* B Hydrogen & Helium	elium	(H) BTEX
×	C Permanent Gases	Hes (CB4, CO, CO2, N2, O2 )	BTEX & C5 - C10
	Mercury (	(Soil) or (Air**)	K TPH (CS-C10) or (C4-C12)
	TO-14 by GC	H TO-14 by GC/MS (Ambient) or (Source **)	C11 - C18
	F 601 & 602 Compounds	mpounds	Other Specify below.

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

\*\* Available upon request,

Sampler's signature

Collection	g	Number of	Summe !	Semple	Sample							
Date	Time	Containers	if Can. used		Identification		Request	Requested Analyses	8	(Other)	Remarks	
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		> <	WHITE	WHITE COPY: Laboratory to return.		ELLOW O	YELLOW COPY : Laboratory		PINK COPY: Submitter	Submitter		]



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 I Hand

RJH/lsp

Attachment: CDM100-203808

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

Sample Names	Methane	Methane	Ethane	Ethylene	Propane	Propylene	so-Butane	N-Butane	Lab ID	Date	Dale	Oate	
	(%%)	(PPMV)	(PPMV)	(PPMV)	(PPMV)	(PPMV)	(PPMV)	(PPMV)		Sampled	Received	Analyzed	Analyst
7032	•	2.14	90.0	0.05	<0.03	<0.03	<0.03	<0.03	T39 149	10/10/00	10/11/00	10/25/00	MA
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	M.
9027	•	3.62	0.18	0.07	20.0	0.07	0.0 0.0	0.04	T39 151	10/10/00	10/11/00	10/25/00	M.
9023	•	3.29	0.15	0.11	90.0	0.05	<0.03	<0.03	T39 152	10/10/00	10/11/00	10/25/00	×Ψ
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	ΣM
9012		6.31	0.60	0.76	0.22	0.57	<0.03	20.0	T39 155	10/10/00	10/11/00	10/25/00	MM
8008	•	<b>64</b> .24	0.55	0.30	0.22	0.23	0.05	90.0	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	WW
5011	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	WW W
9019	•	2.06	90.0	0.05	<0.03	<0.03	<0.03	<0.03	T39 160	10/10/00	10/11/00	10/25/00	ΨW
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	Ψ
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
4006	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	0.0 40.0	0.05	<0.03	<0.03	T39 165	10/10/00	10/11/00	10/25/00	Σ×
9031	•	2.45	0.10	0.10	0.04	90:0	<0.03	<0.03	T39 166	10/10/00	10/11/00	10/25/00	MM
DETECTION LIMITS	0.05	9.0	0.01	0.01	0.03	0.03	0.03	0.03					

<sup>.</sup> METHANE RESULT TAKEN FROM ALTERNATE DETECTOR



CDM100-203808

\*\*\*\* QUALITY CONTROL \*\*\*\*\*

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

CONTINUING CALIBRATION STANDARDS 10/25/00

HE IN LOOP 10/25/00

COMPOUND	FILE ID	TRUE CONC.	MEASURED	% DIFF.	COMPOUND	FILE ID	DET. LIMIT	MEASURED
METHANE (FID)	T39 120	30.00	30.86	2.87	METHANE (FID)	T39 122	0.04 PPMV	Q
ETHANE	T39 120		9.42	5.80	ETHANE	T39 122	0.01 PPMV	2
ETHYLENE	<b>T39 120</b>		9.32	6.80	ETHYLENE	T39 122	0.01 PPMV	
PROPANE	T39 120		9.30	7.00	PROPANE	T39 122	0.03 PPMV	
PROPYLENE	T39 120	10.00	9.17	8.30	PROPYLENE	T39 122	0.03 PPMV	2
ISO-BUTANE	T39 120		9.63	3.70	ISO-BUTANE	T39 122	0.03 PPMV	
N-BUTANE	T39 120		9.77	2.30	N-BUTANE	T39 122	0.03 PPMV	



CDM 100 -203808

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

Sample ID	Benzene	Toluene	Ethyl	M/P Xylene	Ortho	Lab ID	Date	Date	Date	Analyst	
7032	< 0.07	2007	Denzene	2007	Aylene	WIDDATAS	Sampled	Kecelved 10/11/00	Analyzed	1	
700		200	7	0.0	20.0	W TOUAL 45	20/01/01	00/11/01	10/1/00	7.	
9004	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A146	10/10/00	10/11/00	10/11/00	JLT	
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	10/11/01	10/17/00	JLL	
9020	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A149	10/10/00	10/11/01	10/17/00	JLL.	
7036	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A150	10/10/00	10/11/01	10/11/00	JLL	
9012	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A151	10/10/00	10/11/00	10/11/00	JLL	
8008	< 0.07	80.0	0.10	< 0.07	< 0.07	W100A152	10/10/00	10/11/01	10/11/00	JLL	
9015	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A153	10/10/00	10/11/00	10/11/00	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	00/81/01	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	
5003	< 0.07	0.30	< 0.07	< 0.07	< 0.07	W100A162	10/10/00	10/11/00	10/18/00	JLL	
	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	W100A163	10/10/00	10/11/00	00/81/01	JLL	
2004	< 0.07	0.14	< 0.07	< 0.07	< 0.07	W100A164	10/10/00	10/11/00	00/81/01	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			-			

Analyst TLL

CDM100-203808

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

Continuing Calibration Standards 10/17/	n Standards 10/17	00/			N2 in vial 10/17/00			
						ı	Report, Limit	
Compound	Lab ID	True Conc.	Measured	% Diff.	Compound	Lab ID	(bpmv)	Measured
Benzene	W100A134	1.25	1.32	5.60	Benzene	W100A135	0.07	Q.
Toluene	W100A134	1.06	1.08	1.89	Toluene	W100A135	0.07	ND
Ethyl Benzene	W100A134	0.92	0.94	2,17	Ethyl Benzene	W100A135	0.07	Š
M/P Xylene	W100A134	1.84	1.90	3.26	M/P Xylene	W100A135	0.07	Q
Ortho Xylene	W100A134	0.92	0.94	2.17	Ortho Xylene	W100A135	0.07	ND
Continuing Calibration Standards 10/18/00	n Standards 10/18	00/			N2 in vial 10/18/90			
						Ţ	Report. Limit	
Compound	Lab ID	True Conc.	Measured	% Diff.	Compound	Lab ID	(ppmv)	Measured
Benzene	W100A157	1.25	1.19	4.80	Benzene	W100A158	0.07	QN
Toluene	W100A157	1.06	1.03	2.83	Toluene	W100A158	0.07	N ON
Ethyl Benzene	W100A157	. 0.92	0.92	0.00	Ethyl Benzene	W100A158	0.07	ND
M/P Xylene	W100A157	1.84	1.83	0.54	M/P Xylene	W100A158	0.07	N QN
Ortho Xylene	W100A157	0.92	0.91	1.09	Ortho Xylene	W100A158	0.07	Q

Analyst 322/ mbm

220 William Pitt Way, Pittsburgh, PA 15238

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

RAPA VISTA Fax #: Company Name: Proj. Location: Proj. Manager: Proj. Number: Phone #: Address:

### CHAIN-OF-CUSTODY RECORD

to 100 mor 808602

Note: Enter proper letters in Requested Analyses columns below.

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

Analysis Options

	Conormated HC
Hydrogen & Helium	(п втех
Permanent Gases (CH4, CO, CO2, N2, O2)	BTEX & CS - C10
Mercury (Soil) or (Air **)	K TPH (CS-C10) or (C4-C12)
TO-14 by GC/MS (Ambient) or (Source **)	L C11 - C18
601 & 602 Compounds	Mass Specify below.

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

\*\* Available upon request.

Sampler's signatule

Collection	Number of	Summa.	Semple	Sample		
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PINK COPY: Submitter

YELLOW COPY : Laboratory

	220 William Pitt Way, Pittsburgh, PA 15238 Phone: (412) 826-5245 Frx: (412) 826-3433
Company Name: Address:	PATA VISTA
Proj. Manager:	MARZHAT
Proj. Location:	UA CA STOCK
Proj. Number:	
Phone #:	Fax#:

#### CHAIN-OF-CUSTODY RECORD

Note: Enter proper letters in Requested Analyses columns below.

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-4	) <b>C1</b> -C4		ð	G Chlorinated HC
æ.	* B Hydrogen & Helium	ш	TI N	<b>П</b> утех
O	Permanent Gases	(CH4, CO, CO2, N2, O2)	L	BTEX & C5 - C10
A	Mercury (3οίΙ) α (Air **)	) or ( Air ** )	X	K TPH (CS-C10) at (C4-C12)
ш	TO-14 by GC/M	E TO-14 by GC/MS (Ambient) or (Source **)	1	C11 - C18
4	F 601 & 602 Compounds	spuno	эф	Jüher Specify below.

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

Available upon request.

Sampler's signatury

Collection	Number of	"Summa" /	Sample	Sample			
Date Time	Containers	if Can. used	Type	Identification	Requested Analyses	(Other) Remarks	ks
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YELLOW COPY : Laboratory

	MICROSEEPS, Inc.
	220 William Pitt Way, Pittsburgh, PA 15238
	Phone: (412) 826-5245 Fax: (412) 826-3433
Company Name:	PLAN WITH
Address:	12555 W 3874820
Proj. Manager:	NEDSHAD
Proj. Location:	11A- (1A) 90066
Proj. Number:	
Phone #:	Fax #:

#### CHAIN-OF-CUSTODY RECORD

Note: Exter proper letters in Requested Analyses columns below.

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

C1 -C4	G Chlorinated HC
Hydrogen & Helium	(H) BTEX
C Permanent Gases (CH4, CO, CO2, N2, O2)	BTEX & C5 - C10
Mercury (Soil) or (Air **)	K TPH (cs-c10) or (c4-c11)
E TO-14 by GC/MS (Ambient) or (Source **)	L C11 - C18
8 601 & 602 Compounds	Other Specify below.

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

Available upon request.

Sampler's signature

Collection	Number of	* Summy.	Sample	Sample		•
Date Time	Containers	if Can. used	Type	Identification	Requested Analyses (Other) Remarks	
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220 William Pitt Way, Pittsburgh, PA 15238

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

Company Name:

Proj. Manager: Proj. Location: Proj. Number: Phone #:

Address:

CHAIN-OF-CUSTODY RECORD

Note: Enter proper letters in Requested Analyses columns below.

Note: If analysis D, B, or K is selected, scretch (option) NOT wanted.	G Chlorinated HC	( н втех		TPH (CS-C10) or (C4-C11)	C11 - C18	Other Specify below.
Note: If analysis D, E, or K is sele		#	( CH4, CO, CO2, N2, O2 )	or (Air **)	TO-14 by GC/MS (Ambient) or (Source **)	nnds
nalysis Options	** D1-C4	B Hydrogen & Helium	C Permanent Gases	D Mercury (Soil) or (Air ↔)	TO-14 by GC/MS	F 601 & 602 Compounds
3			×			

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

Available upon request.

Fax #:

Sampler's signature

Collection	Number of	# . rowns.	Sample	Sample	ele e				
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