Appendix K. Phase II Environmental Site Assessment Kings Beach Commercial Core Improvement Project

KLEINFELDER

PHASE II ENVIRONMENTAL SITE ASSESSMENT
KINGS BEACH COMMERCIAL
CORE IMPROVEMENT PROJECT
STATE HIGHWAY 28
KINGS BEACH, CALIFORNIA

October 31,2006

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October 31, 2006
File: 74330.03

Rich Williams
State of California
Department of Transportation
District 3, Program Project Management
2800 Gateway Oaks Dr, MS-19
Sacramento, California 95833

SUBJECT: Phase II Environmental Site Assessment
Kings Beach Commercial Core Improvement Project
State Highway 28
Kings Beach, California

References: Final Initial Site Assessment (ISA), For Kings Beach Commercial Core Improvement Project, State Highway 28 From Chipmunk Street to State Highway 267, Kings Beach, California, by MACTEC, dated April 4, 2006

Revised Work Plan, Phase II Environmental Site Assessment, Kings Beach Commercial Core Improvement Project, State Highway 28, Kings Beach, California, by Kleinfelder, Inc., dated September 5, 2006.

Dear Mr. Williams:

Kleinfelder is pleased to provide the results of our Phase II Environmental Site Assessment for the above referenced project. The right-of way in front of eight parcels was investigated during this site assessment by drilling 15 soil borings to depths of 10 feet below ground surface (bgs) and collecting and analyzing soil samples.

In general, soils contained petroleum hydrocarbons to depths of 2.0 to 3.0 feet in the right-of-way adjacent to all parcels investigated with the exception of the Former Shell/Chevron station. At the Former Shell/Chevron station soil contained petroleum hydrocarbons at depths below 8.0 feet.

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The right-of-way adjacent to all other parcels investigated with the exception of Dave's Ski Shop contained soil impacted with petroleum hydrocarbons to depths of 5.0 feet.

Selected soil samples were also analyzed for total lead. Results indicate that the soils are considered non-hazardous and can be transported and disposed of as petroleum-containing soils at a Class II landfill licensed to accept these soils.

If you have any questions or need additional information, please contact the undersigned in our Reno office.

Sincerely,

KLEINFELDER, INC.

REGISTERED CERTIFIED ENGINEERING GEOLOGIST
DAVID J. HERZOG
No. 1295
Exp. 3/31/08
STATE OF CALIFORNIA

David J. Herzog, C.E.G.
Senior Engineering Geologist

Joshua P. Fortmann, P.G.
Project Geologist

Attachments: Work Plan

cc: Ms. Alicia Beyer, Department of Transportation
Mr. Lupe Jimenez, Department of Transportation
Mr. Dan LaPlante, Placer County DPW (2)
Mr. John Reid, Placer County Environmental Health Services

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PHASE II ENVIRONMENTAL SITE ASSESSMENT
KINGS BEACH COMMERCIAL
CORE IMPROVEMENT PROJECT
STATE HIGHWAY 28
KINGS BEACH, CALIFORNIA

1 INTRODUCTION

The Kings Beach Commercial Core Improvement Project will install sidewalks, roadway improvements, and water quality treatment facilities along the north and south sides of Highway 28 from Chipmunk Street to Highway 267 in Kings Beach, California. At this time, the preferred alternative for roadway alignment has not been chosen and the locations of the roadway improvements and water quality treatment facilities are not known. Sidewalk construction will require excavation and disposal of soil to depths of approximately 2.0 feet below ground surface (bgs) throughout the project site located generally within the State of California Department of Transportation right-of-way. Installation of water quality improvements and replacement/installation of traffic light and street light foundations may require excavation and disposal of soil to depths of 10 feet bgs.

The purpose of this Phase II Environmental Assessment was to evaluate soil for the presence of contaminants that would require special handling and disposal. Parcels with releases of petroleum compounds to the subsurface including current and historic gasoline service stations, and historic gasoline service stations that had underground storage tanks (USTs) removed in the past with little documentation are potential sources of contaminated soil. The right-of-way in front of eight parcels was selected for investigation as discussed in the referenced revised work plan.

These eight parcels are listed below according to increasing address number along North Lake Boulevard (Highway 28) from west to east and are shown in the Site Plan, Plate 1.

1. Beacon-Station, 8070 N. Lake Blvd, APN 117-180-012
2. Dave's Ski Shop/Former King's Beach Mobil Station, 8299 N. Lake Boulevard, APN 090-071-029
3. Chevron Station/Former Shell Station, 8369 N. Lake Boulevard, APN 090-075-017
4. Kentucky Fried Chicken/Former Union 76 Station, 8697 N. Lake Boulevard, APN 090-133-010, 011

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5. Subway/ Former Arco Station, 8700 N. Lake Boulevard, APN 090-134-030
6. Show Place Home Furnishings, 8731 N. Lake Boulevard, APN 090-192-031
7. Ronning Property/"Unnamed Repair Shop/Former Chevron Station", 8784 N. Lake Boulevard, APN 090-071-013, -014, and –020
8. King's Beach Swiss Mart/Former Chevron Station, 8797 N. Lake Boulevard, APN 090-192-041

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2 ASSESSMENT ACTIVITIES

2.1 PRE-DRILLING ACTIVITIES

An encroachment permit was obtained from Caltrans and is included in Appendix A.

A soil boring permit was obtained from Placer County Environmental Health Services (PCEHS) and is included in Appendix A.

The proposed drilling locations were marked for inspection and utility clearance by Underground Service Alert (USA). A private utility locator, Nevada Underground Location used geophysical equipment to further verify the location of utilities.

A Site Health and Safety Plan was prepared containing the route to the hospital, potential chemical and physical hazards, personnel protective equipment required, and personnel training requirements. A Health and Safety meeting was held prior to the start of drilling.

2.2 VACUUM TRUCK DRILLING

Based on the close proximity of utility lines (less than 24 inches in accordance with USA) to six proposed boring locations (B-2, B-3, B-4, B-5, B-7, and B-8), vacuum truck drilling technology was used to clear these six drilling locations on September 25, 2006. A jackhammer was used to penetrate the asphalt concrete (AC) surface to a depth of four to six inches bgs and create a 12-inch diameter hole. A vacuum truck was then used to remove drill cuttings to a depth of approximately five feet bgs at these six locations. The vacuum truck drilling ceased prior to collecting soil samples for analysis using a hand auger at the required sample depths of 1.0 and 4.0 feet bgs. Soil samples were placed in laboratory-supplied 500 milliliter glass jars with Teflon-lined caps, sealed, placed in an ice chest, and submitted under chain-of-custody protocols to a California-certified laboratory, Alpha Analytical, Inc.

Photoionization detector (PID) readings were collected at approximately one-foot intervals, were noted on the boring logs provided in Appendix B, and visual, and/or olfactory evidence of hydrocarbons were also noted on the boring logs.

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2.3 GEOPROBE DRILLING

Geoprobe borings B-1, B-6, and B-9 through B-15 were advanced from ground surface to a total depth of 10 feet bgs at the locations shown in Plate 1 on September 25 and 26, 2006. Geoprobe borings B-2 through B-5, and B-7 were advanced from below the vacuum truck boring depth of 4.0 to 5.0 feet bgs to a total depth of 10.0 feet bgs on September 25,2006. Geoprobe boring B-8 was advanced from below the vacuum truck boring depth of 3.5 feet bgs to a total depth of 5.0 feet due to practical refusal on September 25, 2006. PID readings, visual, and/or olfactory evidence of hydrocarbons were noted on the boring logs. A one-inch diameter continuous soil sample was obtained at each location, stored in plastic liners, and sealed with plastic caps.

Soil borings were backfilled with cement grout after drilling per PCEHS regulations. Backfilling procedures were witnessed by a PCEHS inspector.

2.4 SOIL SAMPLING AND ANALYSIS

A PID meter was utilized to detect the presence of total petroleum hydrocarbons (TPH) in soil. A portion of the soil sample at one-foot intervals was placed in a plastic zip-lock bag and sealed. The sealed plastic bag containing the selected soil sample was placed in a warm location for a minimum of five minutes and the headspace in the bag was monitored with a PID. PID readings were noted on the boring log. The portion of each soil sample from which there was a PID indication of TPH was transferred into laboratory-supplied glass containers and placed in a cooler with ice pending transportation to the laboratory for chemical analyses utilizing standard chain-of-custody (COC) procedures.

Up to three soil samples from borings B-1 through B-15 were submitted for laboratory analysis. If no PID readings were detected above background, and no visual or olfactory evidence of hydrocarbons was noted, one soil sample from a depth of 1.0 to 2.0 feet bgs, the second from a depth of 4.0 to 5.0 feet bgs, and the third from a depth of 9.0 to 10.0 feet bgs or immediately above groundwater was submitted for laboratory analysis. If PID readings above background, visual, or olfactory evidence of hydrocarbons were noted, samples were submitted from those depths for laboratory analysis. Groundwater samples were not collected.

Each soil sample analyzed was prepared by cutting the plastic liner, capping both ends of the liner, labeling, placing in an ice chest, and submitted under COC protocols to a California-certified laboratory.

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The sampling equipment was decontaminated between borings by washing with an Alconox and distilled water solution and triple-rinsing with distilled water to prevent cross-contamination of soil samples. In compliance with the Caltrans statewide Storm Water Permit, all rinsate remained within Caltrans Right of Way and was not allowed to enter storm drains.

Each soil sample from borings B-1 through 8-15 was analyzed for total petroleum hydrocarbons-diesel (TPH-diesel), TPH-oil, and TPH-gasoline by EPA Method 8015M; and benzene, toluene, ethyl benzene and total xylenes (BTEX) by EPA Method 8260. Boring B-11, adjacent to APN 090-192-031 was also analyzed for volatile organic compounds by EPA Method 8260 as this site was a former dry cleaner.

Eight soil samples with the highest TPH concentrations (B-2@1-2 ft, B-6@8-9 ft, B-9@2-3 ft, B-10@4-5 ft, B-11@4-5 ft, B-12@4-5 ft, B-13@2-3 ft, and B-15@4-5 ft) were also analyzed for total lead in general accordance with EPA Method 6010B. Since none of the total lead concentrations exceeded 50 mg/kg, no samples were analyzed for concentrations of soluble lead using the Waste Extraction Test (WET). The laboratory performing chemical analyses is certified by the California Department of Health Services (DHS) for the following laboratory test methods: EPA Method 8015M, EPA Method 8260, and EPA Method 6010B.

Laboratory reports are provided in Appendix C.

2.5 LABORATORY QUALITY ASSURANCE/QUALITY CONTROL PROCEDURES

Laboratory quality assurance (QA)/quality control (QC) procedures consisted of:

- One sample analyzed in duplicate for every ten samples, batch of samples, or type of matrix, whichever is more frequent. Five duplicate samples were analyzed.
- One method blank for every twenty samples, batch of samples, or type of matrix, whichever is more frequent. Three method blanks were analyzed.
- One laboratory control spike for every twenty samples, batch of samples, or type of matrix, whichever is more frequent. Three laboratory control spikes were analyzed.
- One sample matrix spike for every twenty samples, batch of samples, or type of matrix, whichever is more frequent, with the spike made at ten times the detection limit or at the analyte level. Three sample matrix spikes were analyzed.
- One sample matrix spike duplicate for every twenty samples, batch of samples, or type of matrix, whichever is more frequent, with the spike made at ten times

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the detection limit or at the analyte level. Three sample matrix spike duplicates were analyzed.

Laboratory QA/QC results are provided in Appendix C.

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3 ASSESSMENT RESULTS

3.1 SUBSURFACE CONDITIONS

The Geologic Map of the Lake Tahoe Basin (Saucedo, 2005) indicates that the area explored is underlain by Holocene-age lake deposits consisting of thinly bedded sandy silt and clay. The Soil Survey of the Lake Tahoe Basin (U.S. Soil Conservation Service, 1974) indicates that the area explored is primarily underlain by Jabu stony sandy loam, moderately fine soil variant, 2 to 9% slopes (JhC). This soil is mapped as consisting of a thin surface layer of stony sandy loam overlying loam, sandy clay loam, and old lake sediments of clay loam texture.

Subsurface conditions encountered during this investigation are presented in the boring logs in Appendix B. Soils encountered were consistent with the geologic map and soil survey and were composed of interbedded layers of brown, reddish brown, and dark brown silty sand, silty gravel, gravelly sand, clayey sand, and sandy gravel above the seasonal high groundwater level. Below the seasonal high groundwater level, soils encountered consisted of grayish brown and gray silty sand and clayey sand with mottles of reddish brown and strong brown.

Petroleum odors were noted in borings B-3, B-6, B-12, and B-14. Slightly elevated PID readings were noted in borings B-2, B-3, B-5, and B-10. High PID readings were noted in borings B-6 and B-14 at depths below 8 feet bgs. No discoloration of soil was visually noted.

All borings penetrated to the design depth of 10.0 feet bgs with the exception of boring B-8 that encountered a very dense sandy gravel layer at a depth of 5.0 feet bgs. Three attempts were made to advance the boring in the vicinity of B-8 with no further progress made.

3.2 LABORATORY RESULTS

Laboratory results are summarized in Table 1 and presented in Appendix C. Laboratory results are discussed by parcel. The Eastern Regional Landfill in Truckee, California can only accept clean fill materials for disposal. Therefore, any detectable concentration of TPH in soil will require disposal at an alternate location.

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1. Beacon-Station, **8070 N.** Lake Blvd, **APN 117-180-012**

Boring B-1 at depths of 1.0 and 4.0 feet bgs and boring B-2 at a depth of 1.0 feet bgs contained TPH in the diesel and oil ranges at concentrations ranging from 15 to 200 milligrams per kilogram (mg/Kg). The total lead concentration from boring B-2 at a depth of 1.0 feet bgs was 11 mg/Kg.

2. Dave's Ski **Shop/Former** King's Beach Mobil Station, **8299 N.** Lake Boulevard, **APN 090-071-029**

Borings B-3 and B-4 at depths of 1.0 feet bgs contained low concentrations of TPH in the diesel and oil ranges at concentrations ranging from 10 to 63 mg/Kg.

3. Chevron **Station/Former** Shell Station, **8369 N.** Lake Boulevard, **APN 090-075-017**

Boring B-6 at a depth of 8.0 feet bgs contained TPH-purgeable at a concentration of 340 mg/Kg, ethylbenzene at a concentration of 800 micrograms per kilogram (ug/Kg) and total xylenes at a concentration of 2,790 ug/Kg. The total lead concentration from this sample was 4.7 mg/Kg.

4. Kentucky Fried **Chicken/Former** Union **76** Station, **8697 N.** Lake Boulevard, **APN 090-133-010,011**

Boring B-7 at a depth of 6.0 feet bgs contained a very low concentration of TPH-diesel of 6 mg/Kg that is slightly above the detection limit of 5 mg/Kg. Boring B-8 at depths of 1.0 and 4.0 feet bgs contained TPH in the diesel and oil ranges at concentrations ranging from 8.7 to 40 mg/Kg.

5. **Subway/Former** Arco Station, **8700 N.** Lake Boulevard, **APN 090-134-030**

Borings B-9 and B-10 at depths of 2.0 and 4.0 feet bgs contained TPH in the diesel and oil ranges at concentrations ranging from 17 to 1,300 mg/Kg. Boring B-10 at a depth of 4.0 feet bgs also contained very low concentrations of ethylbenzene and total xylenes. Boring B-10 at a depth of 7.0 feet bgs contained TPH in the oil range at a concentration of 34 mg/Kg. The total lead concentration from these samples ranged from 6.0 to 7.1 mg/Kg.

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6. Show Place Home Furnishings, 8731 N. Lake Boulevard, APN 090-192-031

Boring B-11 at depths of 1.0 and 4.0 feet bgs contained TPH in the diesel and oil ranges at concentrations ranging from 76 to 4,900 mg/Kg. The total lead concentration in the sample from 4.0 feet bgs was 25 mglKg.

7. Ronning Property1"Unnamed Repair Shop/Former Chevron Station", 8784 N. Lake Boulevard, APN 090-071-013, -014, and –020

Boring B-12 at depths of 1.0, 3.0, and 4.0 feet bgs and boring B-13 at a depth of 2.0 feet bgs contained TPH in the diesel and oil ranges at concentrations ranging from 26 to 4,100 mg/Kg. The total lead concentration from these samples ranged from 3.2 to 3.8 mg/Kg.

8. King's Beach Swiss Mart/Former Chevron Station, 8797 N. Lake Boulevard, APN 090-192-041

Boring B-14 at a depth of 1.0 feet bgs and boring B-13 at depths of 1.0 and 4.0 feet bgs contained TPH in the diesel and oil ranges at concentrations ranging from 16 to 2,900 mg/Kg. The total lead concentration from a sample from boring B-15 was 2.8 mg/Kg.

3.3 QUALITY ASSURANCE/QUALITY CONTROL (QAIQC)

The effectiveness of the QAIQC program is measured by the quality of data generated by the laboratory. Data quality is judged in terms of its Precision, Accuracy, Representativeness, Completeness, and Comparability (PARCC) parameters, as described in the following section.

Precision

Precision is a measure of the reproducibility of analyses under a given set of conditions, and can be assessed by replicate measurements of duplicate control samples, reference materials, or environmental samples.

The laboratory measured the comparison of precision by calculating the Relative Percent Difference (RPD) between sample matrix spike (MS) and MS duplicate QC samples. The RPD between the two duplicate samples was used to estimate precision, and was calculated as follows:

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$$RPD = \frac{|D I - D z|}{(Dl + 02112} x1OO$$

Where:

RPD = relative percent difference
D 1 = first sample value
0 2 = second sample value (duplicate)

The laboratory calculated MSlMSD RPD are summarized in the QC Summary Report, Appendix C. The calculated RPD range for soil samples and field QC duplicates analyzed for TPH was 0% to 200% and for VOCs 0%. These RPD indicate a level of precision that is most likely a result of soil sample matrix variation.

Accuracy

Accuracy is a determination of how close the measurement is to the true value. Accuracy can be assessed using laboratory control samples (LCS), standard reference materials, or spiked environmental samples. The laboratory monitored accuracy by comparing MS, MSD, LCS, and surrogate spike recovery results with control limits identified in EPA SW846. QC limits were met for all QC samples, with the exceptions listed in the QC Summary Reports (Appendix C) and discussed in Section 3.3.1.

Representativeness

Representativeness is a qualitative parameter that reflects the extent to which a given sample is characteristic of a given population at a specific location or under a given environmental condition. Representativeness is best satisfied by making certain that sampling locations are selected properly, a sufficient number of samples are collected, and an appropriate sampling technique is employed. Variations at a sampling point were evaluated based on the results of field duplicates.

Sampling locations, number of samples collected, and appropriate sampling techniques were employed as specified in the revised work plan. Variation at sampling points, based on the field duplicate sample results, was observed for soil samples. This appears to be a resultof soil sample matrix variation, and does not appear to indicate a poor representativeness of the soil samples.

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Completeness

Completeness is a measure of the amount of valid data obtained from a measurement system compared with the amount that was expected to be obtained under normal conditions. To be considered complete, the data set must contain all analytical results and data specified for the project. In addition, all data were compared to project requirements to ensure that specifications were met. Completeness was evaluated by comparing the project objectives to the quality and quantity of the data collected to determine if any deficiencies exist. Missing data can result from any number of circumstances ranging from sample acquisition and accessibility problems to sample breakage and rejection of analytical data because of quality control deficiencies. Completeness was quantitatively assessed as the percent of controlled QC parameters that are within limits. The minimum requirement for completeness for all QC parameters, except holding times, is 80%. The requirement for holding times is 100%.

The percent completeness for each set of samples was calculated as follows:

$$Completeness = \frac{valid\ data\ obtained}{total\ data\ analyzed} \times 100\%$$

Valid data is defined as those data points that are not qualified as rejected. No data were rejected, so the percent completeness for all QC parameters is 100%.

Comparability

Comparability expresses the confidence with which one data set can be compared to another data set measuring the same property. To ensure comparability, field procedures were standardized and field operations adhered to procedures outlined in the revised work plan. Laboratory data comparability was assured by use of established and approved analytical methods, consistency in the basis of analysis (wet weight, volume, etc.), and consistency in reporting units (mg/Kg, ug/Kg, etc.).

3.3.1 Data Review and Validation

The QA Manager supervised data quality assessment tasks. Kleinfelder evaluated and documented measurement data to monitor consistency with DQOs, to quantitatively assess data quality, and to identify potential limitations to data use.

Kleinfelder reviewed field and analytical laboratory data generated for this project as described below. Chain of custody documentation met QC requirements. Holding time compliance was met for all samples. QC limits were met for all QC samples, with the exceptions listed in the QC Summary Reports for TPH-extractable in the diesel range.

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The exceptions appear to be the result of soil sample heterogeneity, as the laboratory control sample recovery was acceptable. The analytical sample results do not appear to have been influenced by outlier QC sample results. After reviewing the QC data that did not fall within QC limits and the analytical results, the assessment is that the project data quality is acceptable.

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4 CONCLUSIONS AND RECOMMENDATIONS

In general, soils contained petroleum hydrocarbons to depths of 2.0 to 3.0 feet in the right-of-way adjacent to all parcels investigated with the exception of the Former Shell/Chevron station (APN 090-075-017). At the Former Shell/Chevron station soil contained petroleum hydrocarbons at depths below 8.0 feet.

The right-of-way adjacent to all other parcels investigated with the exception of Dave's Ski Shop (APN 090-071-029) contained soil impacted with petroleum hydrocarbons to depths of 5.0 feet.

Selected soil samples were also analyzed for total lead. Results indicate that the soils are considered non-hazardous and can be transported and disposed of as petroleum-containing soils at a Class II landfill licensed to accept these soils such as the Norcal Waste System's Ostrom Road Landfill in Wheatland, California or the Allied Waste Inc's. Forward Landfill in Manteca, California. Since the TPH concentration in soils are greater than 600 mg/Kg, these soils cannot be disposed of at the Lockwood Landfill in Mustang, Nevada. Another option for soil disposal is by incineration at the Nevada Thermal, Inc. facility in Mustang, Nevada. Costs for disposal at these facilities are generally $15/ton at the Ostrom Road Landfill, $21/ton at the Forward Landfill, and $50/ton at Nevada Thermal, Inc.

Based on the laboratory results, it is our opinion that right-of-way acquisition of a portion of the Beacon (APN 117-180-012), Dave's Ski Shop (APN 090-071-029) and Kentucky Fried Chicken (APN 090-133-010) properties should be performed by procuring an easement rather than purchase due to the potential for future environmental liability.

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TABLES

Table 1 Summary of Soil Analyses
Kings Beach Commercial Core Improvement Project

Site Name	APN	Boring	Depth	TPH-Diesel	TPH-Oil	TPH-Purgeable	BTEX	VOCs	Total Lead
			feet	mg/Kg	mg/Kg	mg/Kg	ug/Kg	ug/Kg	mg/Kg
Beacon	117-180-012	B-1	1.0	21	99	<4	<20	NA	NA
			4.0	15	56	<4	<20	NA	NA
			9.0	<5	<10	<4	<20	NA	NA
		B-2	1.0	29	200	<4	<20	NA	11
			4.0	<5	<10	<2	<10	NA	NA
		DUP 1	8.0	<5	<10	<1	<5	NA	NA
			9.0	<5	<10	<2	<10	NA	NA
Dave's Ski	090-071-029	B-3	1.0	<5	16	<2	<10	NA	NA
			4.0	<5	<10	<1	<5	NA	NA
			9.0	<5	<10	<2	<10	NA	NA
		B-4	1.0	10	63	<2	<10	NA	NA
			4.0	<5	<10	<2	<10	NA	NA
			8.0	<5	<10	<2	<10	NA	NA
		DUP 2	9.0	<5	<10	<1	<5	NA	NA
Former Shell	090-075-017	B-5	1.0	<5	<10	<1	<5	NA	NA
Current Chevron			5.0	<5	<10	<1	<10	NA	NA
			9.0	<5	<10	<1	<5	NA	NA
		B-6	2.0	<5	<10	<1	<5	NA	NA
			5.0	<5	<10	<1	<5	NA	NA
			8.0	<5	<10	340	800 E; 2,790 X	NA	4.7
Kentucky Fried	090-133-010/011	B-7	1.0	<5	<10	<1	<5	NA	NA
Chicken			6.0	6	<10	<2	<5	NA	NA
			9.0	<5	<10	<2	<5	NA	NA
		B-8	1.0	8.7	40	<2	<10	NA	NA
			4.0	5	18	<2	<10	NA	NA
Subway	090-134-029	B-9	2.0	31	330	<2	<10	NA	6
			4.0	17	140	<2	<10	NA	NA
			9.0	<5	<10	<1	<5	NA	NA
		B-10	2.0	<5	32	<1	<5	NA	NA
			4.0	120	1,300	<1	5.1 E; 16 X	NA	7.10
			7.0	<5	34	<1	<5	NA	NA
Show Place	090-192-031	B-11	1.0	76	590	<2	<10	ND	NA
			4.0	700	4,700	<4	<20	ND	25
		DUP 5	5.0	<5	<10	<2	<10	ND	NA
			9.0	<5	<10	<2	<10	ND	NA
Ronning	090-221-014/021	B-12	1.0	26	160	<2	<10	NA	NA
		DUP 4	3.0	200	1,300	<2	<10	NA	NA
			4.0	36	200	<2	<10	NA	3.2
			9.0	<5	<10	<1	<5	NA	NA
		B-13	2.0	270	4,100	<2	<10	NA	3.8
		DUP 3	3.0	<5	<10	<2	<10	NA	NA
			4.0	<5	<10	<1	<5	NA	NA
			9.0	<5	<10	<1	<5	NA	NA
Swiss Mart	090-192-041	B-14	1.0	16	130	<4	<20	NA	NA
Chevron			3.0	<5	<10	1.5	<5	NA	NA
			9.0	<5	<10	<1	<5	NA	NA
		B-15	1.0	100	660	<2	11 E; 34 X	NA	NA
			4.0	370	2,900	<4	52 X	NA	2.8
			9.0	<5	<10	<1	<5	NA	NA

TPH = total petroleum hydrocarbons
BTEX = benzene, toluene, ethylbenzene, total xylenes
NA = Not Analyzed
ND = Not Detected, detection limit varied from 10ug/Kg to 40ug/Kg

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PLATES

APPENDIX A

Permits

STATE OF CALIFORNIA • DEPARTMENT OF TRANSPORTATION

ENCROACHMENT PERMIT

TR-0120 (REV 6/200)

Permit No.	0306-NSV0685
Dist/Co/Rte/PM	03-PLA-28-9.34/10.68
Date	September 19, 2006
Fee Paid	$ Exempt
Deposit	$ N/A
Performance Bond Amount (1)	$ N/A
Payment Bond Amount (2)	$ N/A
Bond Company	
Bond Number (1)	
Bond Number (2)	

In compliance with (Check one):

☒ Your application of September 6, 2006

☐ Utility Notice No. _____ of _____

☐ Agreement No. _____ of _____

☐ R/W Contract No. _____ of _____

TO: Placer County Department of Public Works
c/o Kleinfelder, Inc.
4835 Longley Lane
Reno, NV 89502
Attn: David Herzog
775-689-7800

Ref No.

, PERMITTEE

and subject to the following, PERMISSION IS HEREBY GRANTED to:
Drill 15 borings having 2-inch Dia, 10 feet deep along the shoulder of State Highway 28 as per attached plans.
The holes need to be filled as per the satisfaction of Caltrans representative.
An approval from USA (Underground Service Alert) is required before digging the holes.

Permittee shall contact State inspector Ron Mills, telephone, (530) 582-8133 Cellular (530) 755-6688, SEVEN (7) working days prior to commencing work, to arrange a pre-job meeting. A 24-hour notification before restarting work shall be strictly adhered to. All work shall be conducted and completed to the satisfaction of Caltrans representative. Immediately following completion of the work permitted herein, the Permittee shall fill out and mail the Notice of Completion attached to this Permit.

THIS PERMIT IS NOT A PROPERTY RIGHT AND DOES NOT TRANSFER WITH THE PROPERTY TO A NEW OWNER.

The following attachments are also included as part of this permit *(Check applicable)*:

☒ Yes	☐ No	General Provisions
☐ Yes	☒ No	Utility Maintenance Provisions
☒ Yes	☐ No	Special Provisions **TRAFFIC CONTROL**
☐ Yes	☒ No	A Cal-OSHA permit, if required: Permit No. _____
☐ Yes	☒ No	As-Built Plans Submittal Route Slip for Locally Advertised Projects
☐ Yes	☒ No	Storm Water Pollution Protection Plan

In addition to fee, the permittee will be billed actual costs for:

☐ Yes	☒ No	Review
☐ Yes	☒ No	Inspection
☒ Yes	☐ No	Field work

(If any Caltrans effort expended)

☐ Yes ☒ No The information in the environmental documentation has been reviewed and considered prior to approval of this permit.

This permit is void unless the work is completed before December 1, 2006

This permit is to be strictly construed and no other work other than specifically mentioned is hereby authorized.
No project work shall be commenced until all other necessary permits and environmental clearances have been obtained

Ron Mills
P.O. Box 579
Truckee, CA 96160
(530) 582-8133 Cellular (530) 755-6688

cc: Stan Richins, Maint-Sutter/Sierra Region

APPROVED:

JODY JONES, District Director

BY:

BRUCE D. CAPAUL, Chief-Office of Encroachment Permits

ADA Notice For individuals with sensory disabilities, this document is available in alternate formats. For information call (916) 653-3657 or TDD (916) 654-3880 or write Records and Forms Management, 1120 N Street, MS-89, Sacramento, CA 95814.

FM 91 1436

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS

REGISTERED CIVIL ENGINEER

May 1, 2006
PLANS APPROVAL DATE

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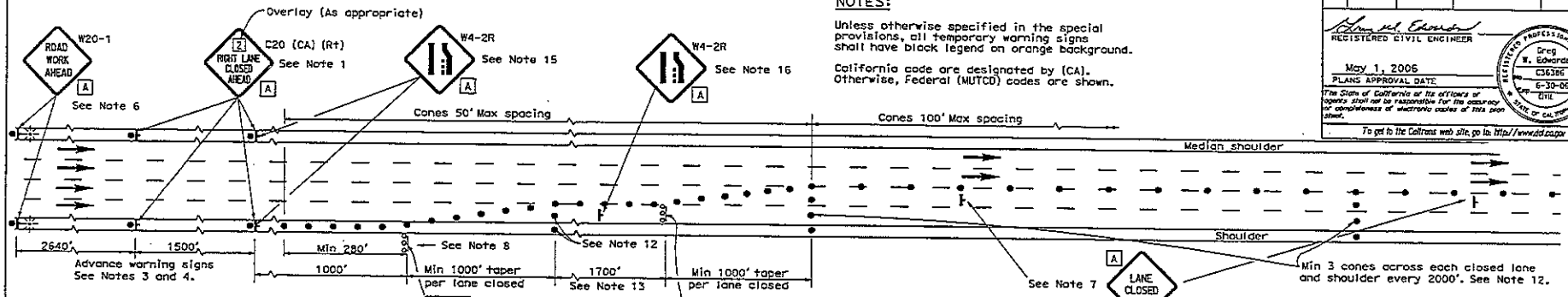
REGISTERED PROFESSIONAL ENGINEER Greg W. Edwards C36386 6-30-06 CIVIL STATE OF CALIFORNIA

To get to the Caltrans web site, go to: http://www.dot.ca.gov

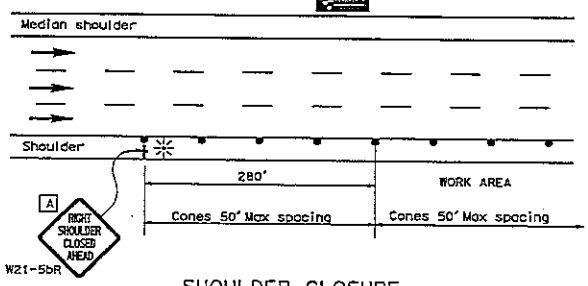
NOTES:

Unless otherwise specified in the special provisions, all temporary warning signs shall have black legend on orange background.

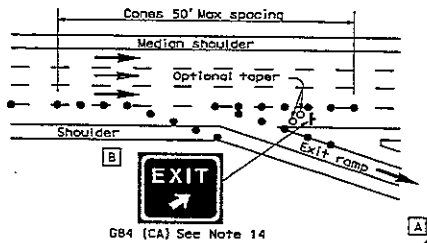
California code are designated by (CA). Otherwise, Federal (MUTCD) codes are shown.



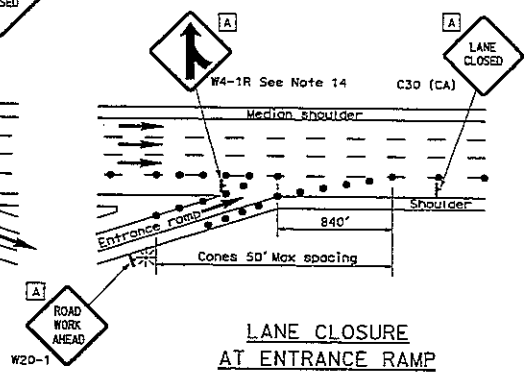
LANE CLOSURE



SHOULDER CLOSURE



LANE CLOSURE AT EXIT RAMP



LANE CLOSURE AT ENTRANCE RAMP

NOTES:

1. Median lane closures shall conform to the details for outside lane closures except that C20 (CA) (Lt) signs shall be used.
2. At least one person shall be assigned to provide full time maintenance of traffic control devices for lane closures.
3. Duplicate sign installations are not required:
   a) On opposite shoulder if at least one-half of the available lanes remain open to traffic.
   b) In the median if the width of the median shoulder is less than 8' and the outside lanes are to be closed.
4. Each advance warning sign on each side of the roadway shall be equipped with at least two flags for daytime closure. Each flag shall be at least 16" x 16" in size and shall be orange or fluorescent red-orange in color. Flashing beacons shall be placed at the locations indicated for lane closure during hours of darkness.
5. A C14 (CA) "END ROAD WORK" sign, as appropriate, shall be placed at the end of the lane closure unless the end of work area is obvious or ends within a larger project's limits.
6. If the W20-1 sign would follow within 2000' of a stationary W20-1 or C11 (CA) "ROAD WORK NEXT _____ MILES", use a C20 (CA) sign for the first advance warning sign.
7. Place a C30 (CA) sign every 2000' throughout length of lane closure.
8. One flashing arrow sign for each lane closed. The first flashing arrow sign shall be Type I. All others may be either Type I or Type II.
9. A minimum 1500' of sight distance shall be provided where possible for vehicles approaching the first flashing arrow sign. Lane closures shall not begin at top of crest vertical curve or on a horizontal curve.
10. All cones used for lane closures during the hours of darkness shall be fitted with retroreflective bands (or sleeves) as specified in the specifications.
11. Portable delineators, placed at one-half the spacing indicated for traffic cones may be used instead of cones for daytime closures only.
12. Unless otherwise specified in the special provisions, a minimum of 3 cones shall be placed transversely across each closed lane and shoulder at each location where a taper across a traffic lane ends and every 2000' as shown on the "Lane Closure" detail. Two Type II barricades may be used instead of the 3 cones. The transverse alignment of the cones or barricades on the closed shoulder may be shifted from the transverse alignment to provide access to the work.
13. Unless otherwise specified in the special provisions, the 1700' tangent shown along lane lines shall be used between the 1000' tapers required for each closed traffic lane.
14. Unless otherwise specified in the special provisions, the G84 (CA) and W4-1 signs shall be used as shown.
15. When specified in the special provisions, a W4-2 "LANE ENDS" symbol sign is to be used in place of the C20 (CA) "RIGHT LANE CLOSED AHEAD" sign.
16. The W4-2 "LANE ENDS" symbol sign shown at this location is to be used where the W4-2 sign is used as advance warning as described in Note 15.

SIGN PANEL SIZE (Min)

A	48" x 48"
B	54" x 48"

LEGEND

- Traffic Cone
- Traffic Cone (optional taper)
- Temporary Sign
- Flashing Arrow Sign (FAS)
- FAS Support or Trailer
- Direction of Travel
- Portable Flashing Beacon

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL SYSTEM FOR LANE CLOSURE ON FREEWAYS AND EXPRESSWAYS

NO SCALE

T10

2006 STANDARD PLAN T10

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS

REGISTERED CIVIL ENGINEER

May 1, 2006
PLANS APPROVAL DATE

Registered Professional Engineer — Greg R. Edwards — No. C36386 — Exp. 6-30-06 — Civil — State of California

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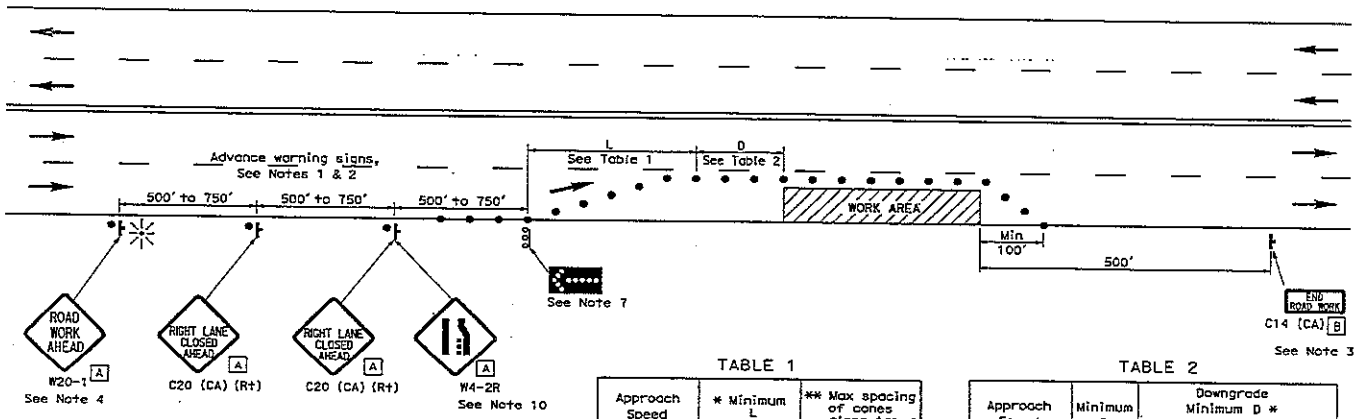
TYPICAL LANE CLOSURE



NOTES:

Unless otherwise specified in the special provisions, all temporary warning signs shall have black legend on orange background.

California code are designated by (CA). Otherwise, Federal (MUTCD) codes are shown.

TABLE 1

Approach Speed	* Minimum L	** Max spacing of cones along taper
mph	ft	ft
20 and below	80	20
25	125	25
30	180	30
35	245	35
40	320	40
45	540	45
50	600	50
Over 50	See Note 9	

* Use L for lane widths less than or equal to 12'.
** See Note 8.

TABLE 2

Approach Speed	Minimum D	Downgrade Minimum D *		
		-3%	-6%	-9%
mph	ft	ft	ft	ft
25 and below	155	158	165	173
30	200	205	215	227
35	250	257	271	287
40	305	315	333	354
45	360	378	400	427
50	425	446	474	507
Over 50	See Note 9			

* Use on sustained downgrade steeper than -3 percent and longer than 1 mile.

LEGEND

- Traffic Cone
- Temporary Sign
- Direction of Travel
- Flashing Arrow Sign (FAS)
- FAS Support or Trailer
- Portable Flashing Beacon

SIGN PANEL SIZE (Min)

A 36" x 36"

B 36" x 18"

NOTES:

1. Where approach speeds are low, advance warning signs may be placed at 300' spacing and placed closer in urban areas.
2. Each advance warning sign shall be equipped with at least two flags for daytime closure. Each flag shall be at least 16" x 16" in size and shall be orange or fluorescent red-orange in color. Flashing beacons shall be placed at the locations indicated for lane closure during hours of darkness.
3. A C14 (CA) "END ROAD WORK" sign, as appropriate, shall be placed at the end of the lane closure unless the end of work area is obvious, or ends within a larger project's limits.
4. If the W20-1 sign would follow within 2000' of a stationary W20-1 or C11 (CA) "ROAD WORK NEXT _____ MILES", use a C20 (CA) sign for the first advance warning sign.
5. All cones used for lane closures during the hours of darkness shall be fitted with retroreflective bands (or sleeves) as specified in the specifications.
6. Portable delineators, placed at one-half the spacing indicated for traffic cones, may be used instead of cones for daytime closures only.
7. Flashing arrow sign shall be either Type I or Type II.
8. The maximum spacing between cones along a tangent shall be 50' and along a taper shall be approximately as shown in Table 1.
9. For approach speeds over 50 mph, use the "Traffic Control System for Lane Closure On Freeways And Expressways" plan for lane closure details and requirements.
10. When specified in the special provisions, a W4-2 "LANE ENDS" symbol sign is to be used in place of the C20 (CA) "RIGHT LANE CLOSED AHEAD" sign.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL SYSTEM FOR LANE CLOSURE ON MULTILANE CONVENTIONAL HIGHWAYS

NO SCALE

T11

2006 STANDARD PLAN T11

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS

REGISTERED CIVIL ENGINEER

May 1, 2006
PLANS APPROVAL DATE

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REGISTERED PROFESSIONAL ENGINEER Greg W. Edwards C34386 6-30-06 CIVIL STATE OF CALIFORNIA

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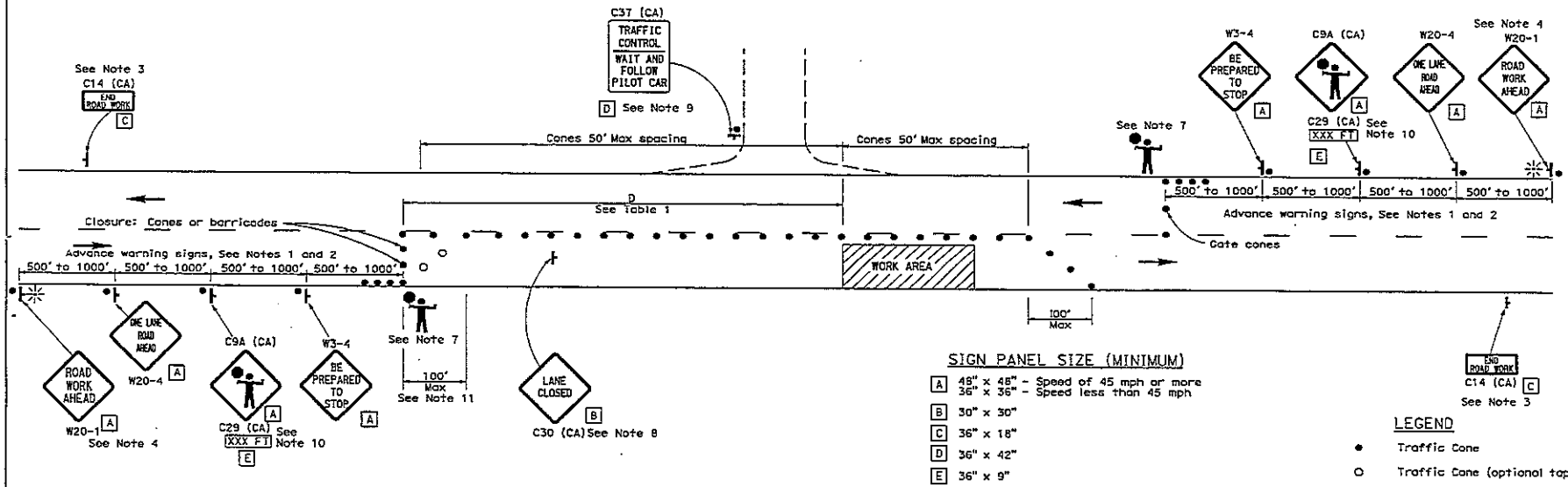
NOTES:

Unless otherwise specified in the special provisions, all temporary warning signs shall have black legend on orange background.

California code are designated by (CA). Otherwise, Federal (MUTCD) codes are shown.

TYPICAL LANE CLOSURE WITH REVERSIBLE CONTROL



SIGN PANEL SIZE (MINIMUM)

- A 48" x 48" - Speed of 45 mph or more
  36" x 36" - Speed less than 45 mph
- B 30" x 30"
- C 36" x 18"
- D 36" x 42"
- E 36" x 9"

LEGEND

- Traffic Cone
- Traffic Cone (optional taper)
- Temporary Sign
- Direction of Travel
- Portable Flashing Beacon
- Flagger

NOTES:

1. Where approach speeds are low, advance warning signs may be placed at 300' spacing, and closer in urban areas.
2. Each advance warning sign in each direction of travel shall be equipped with at least two flags for daytime closure. Each flag shall be at least 16" x 16" in size and shall be orange or fluorescent red-orange in color. Flashing beacons shall be placed at the locations indicated for lane closure during hours of darkness.
3. A C14 (CA) "END ROAD WORK" sign, as appropriate, shall be placed at the end of the lane control unless the end of work area is obvious, or ends within a larger project's limits.
4. If the W20-1 sign would follow within 2000' of a stationary W20-1 or C11 (CA) "ROAD WORK NEXT _____MILES", use a W20-4 sign for the first advance warning sign.
5. All cones used for lane closures during the hours of darkness shall be fitted with retroreflective bands (or sleeves) as specified in the specifications.
6. Portable delineators, placed at one-half the spacing indicated for traffic cones, may be used instead of cones for daytime closures only.
7. Additional advance flaggers may be required. Flagger should stand in a conspicuous place, be visible to approaching traffic as well as approaching vehicles after the first vehicle has stopped. During the hours of darkness, the flagging-station and flagger shall be illuminated and clearly visible to approaching traffic. The illumination footprint of the lighting on the ground shall be at least 20' in diameter. Place a minimum of four cones at 50' intervals in advance of flagger station as shown.
8. Place C30 (CA) "LANE CLOSED" sign at 500' to 1000' intervals throughout extended work areas. They are optional if the work area is visible from the flagger station.
9. When a pilot car is used, place a C37 (CA) "TRAFFIC CONTROL-WAIT AND FOLLOW PILOT CAR" sign at all intersections within traffic control area. Signs shall be clean and visible at all times.
10. An optional C29 (CA) sign may be placed below the C9A (CA) sign.
11. Traffic cones or barricades may be placed on the optional taper as shown, barricades shall be Type I, II, or III.

TABLE 1

Approach Speed	Minimum D	Downgrade Minimum D *		
		-3%	-6%	-9%
mph	ft	ft	ft	ft
25 and below	155	158	165	173
30	200	205	215	227
35	250	257	271	287
40	305	315	333	354
45	360	378	400	427
50	425	446	474	507
55	495	520	553	593
60	570	598	638	686
65	645	682	728	785

* Use on sustained downgrade steeper than -3 percent and longer than 1 mile.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL SYSTEM FOR LANE CLOSURE ON TWO LANE CONVENTIONAL HIGHWAYS

NO SCALE

T13

2006 STANDARD PLAN T13

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS

REGISTERED CIVIL ENGINEER

May 1, 2006
PLANS APPROVAL DATE

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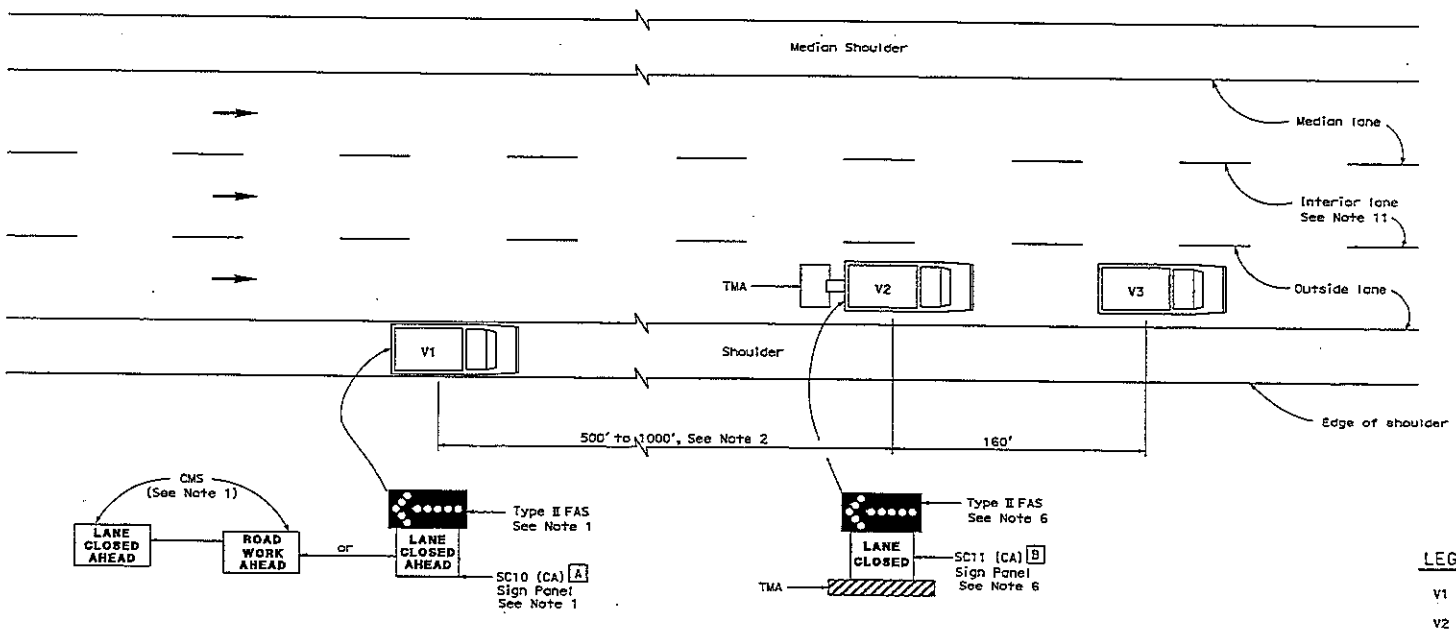

MOVING LANE CLOSURE ON MEDIAN LANE OR OUTSIDE LANE OF MULTILANE HIGHWAYS

SIGN PANEL SIZE (Min)

A 66" x 36"

B 54" x 42"

LEGEND

V1	Sign Vehicle
V2	Shadow Vehicle
V3	Work/Application Vehicle
	Flashing Arrow Sign (FAS)
CMS	Changeable Message Sign
TMA	Truck-Mounted Attenuator
→	Direction of Travel

NOTES:

1. Either a changeable message sign or a SC10 (CA) sign panel and a Type II flashing arrow sign shall be mounted on the rear of sign vehicle V1. A Type II flashing arrow sign shall be mounted on the rear of sign vehicle V1 and used with the SC10 (CA) sign panel. A Type II flashing arrow sign will not be required with the changeable message sign provided the flashing arrow sign symbol is displayed on the changeable message sign board. The changeable message sign shall be sequenced to show the "ROAD WORK AHEAD" message first, followed by the "LANE CLOSED AHEAD" message and then the flashing arrow sign symbol. For median lane closure, the flashing arrow symbol shall be reversed with the arrowhead on the right.
2. If traffic queues develop, sign vehicle V1 should be positioned upstream from the end of queue. Sign vehicle V1 shall be positioned where highly visible when shoulders are not available.
3. A minimum sight distance of 1500' should be provided in advance of sign vehicle V1.
4. Sign vehicle V1 should remain at the beginning of horizontal or vertical curves until the other vehicles (V2 and V3) are far enough beyond the curve to resume the minimum sight distance of 1500'.
5. Vehicle-mounted sign panels shall be Type III, IV, VII, VIII or IX retroreflective sheeting, black on white, black on orange, or black on fluorescent orange, with 6" minimum series D letters per Caltrans sign specifications.
6. Gross Vehicle Weight of shadow vehicle V2 shall be a minimum of 20,000 pounds and shall be equipped with a truck-mounted attenuator. The sign panel shown and a Type II flashing arrow sign shall be mounted on the rear of shadow vehicle V2. For median lane closure the flashing arrow sign symbol shall be displayed with the arrowhead on the right.
7. All vehicles used for lane closures shall be equipped with two-way radios, and the vehicle operators shall maintain communication during the work or application operation.
8. All vehicles shall be equipped with flashing or rotating amber lights.
9. Where sufficient shoulder width is not available, sign vehicle V1 may encroach into the traffic lane staying as close to the edge of shoulder as practicable. Both V1 and V2 shall be equipped with a truck-mounted attenuator. The Gross Vehicle Weight of V1 and V2 shall be at least 20,000 pounds, respectively.
10. Where workers would be on foot in the work area, a stationary type lane closure (Standard Plan T10, T11, etc., as applicable) shall be used instead of this plan.
11. For moving lane closure on interior lane of multilane highways, use Standard Plan T16.
12. When multiple work vehicles are used in close proximity to each other, only one shadow vehicle is required, and spacing between work vehicles shall be minimized in order to deter traffic from entering the closdlane.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL SYSTEM FOR MOVING LANE CLOSURE ON MULTILANE HIGHWAYS

NO SCALE

T15

2006 STANDARD PLAN T15

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS

REGISTERED CIVIL ENGINEER

May 1, 2006
PLANS APPROVAL DATE

Greg W. Edwards
No. C35386
Exp. 6-30-06
CIVIL
STATE OF CALIFORNIA
REGISTERED PROFESSIONAL ENGINEER

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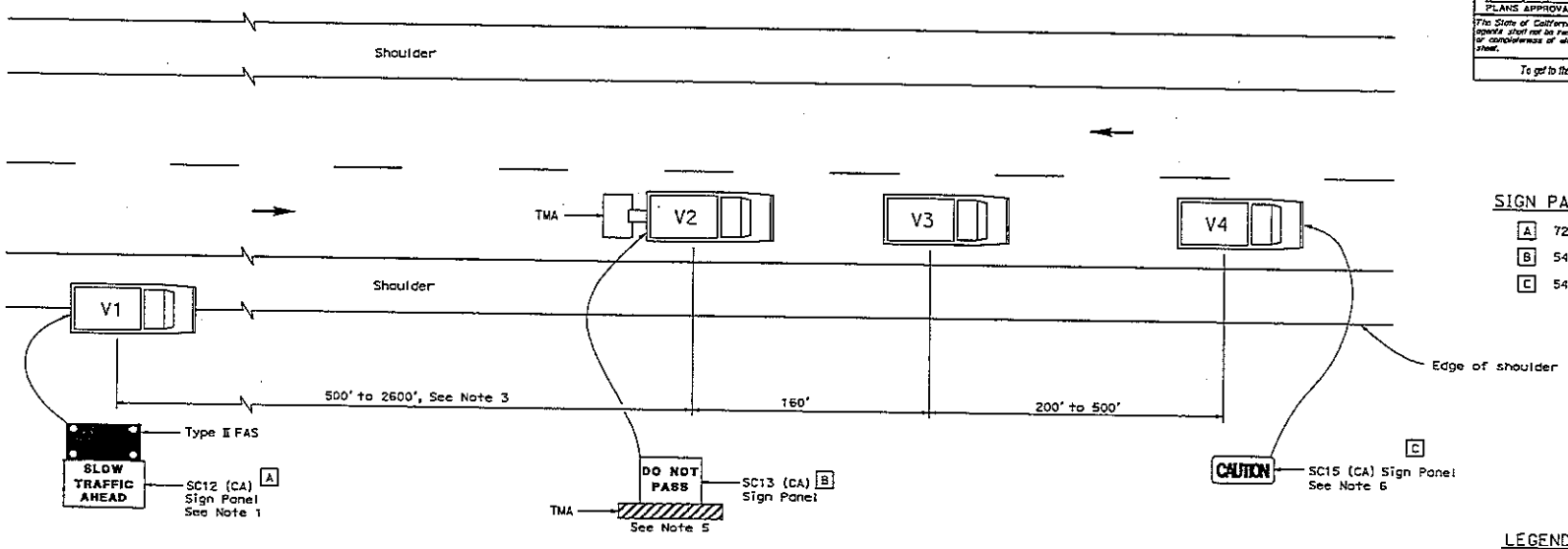

SIGN PANEL SIZE (Min)

- A 72" x 42"
- B 54" x 42"
- C 54" x 24"

LEGEND

V1	Sign Vehicle
V2	Shadow Vehicle
V3	Work/Application Vehicle
V4	Sign Vehicle
TMA	Truck-Mounted Attenuator
→	Direction of Travel
■	Flashing Arrow Sign (FAS) in flashing caution mode

NOTES:

1. Either a changeable message sign or a SC12 (CA) "SLOW TRAFFIC AHEAD" sign shall be mounted on the rear of sign vehicle V1. A Type II flashing arrow sign may be used with the SC12 (CA) sign panel.
2. Sign vehicle V1 should be positioned where highly visible when shoulders are not available.
3. If traffic queues develop, sign vehicle V1 should be positioned upstream from the end of queue.
4. Vehicle-mounted sign panels shall be Type III, IV XII, XIII or IX retroreflective sheeting, black on white, black on orange, or black on fluorescent orange, with 6" minimum series D letters per Caltrans sign specifications.
5. Gross Vehicle Weight of shadow vehicle shall be a minimum of 20,000 pounds and shall be equipped with a truck-mounted attenuator. The sign panel shown shall be mounted on the rear of shadow vehicle V2. The message "LANE CLOSED" may be used in place of the "DO NOT PASS" message.
6. The sign panel shown shall be mounted on the front of sign vehicle V4, facing opposing traffic.
7. All vehicles shall be equipped with flashing or rotating amber lights.
8. Sign vehicle V4 will not be required when the work and vehicles V2 and V3 are 2' or more from the centerline of the highway during the work or application operations.
9. All vehicles used for lane closures shall be equipped with two-way radios and the vehicle operators shall maintain communication during the work or application operation.
10. This plan shall not be used where workers would be on foot in the work area. Use a stationary type lane closure (Standard Plan T13) for this condition.
11. When multiple work vehicles are used in close proximity to each other, only one shadow vehicle is required and spacing between work vehicles shall be minimized in order to deter traffic from entering the closed lane.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL SYSTEM FOR MOVING LANE CLOSURE ON TWO LANE HIGHWAYS

NO SCALE

T17

2006 STANDARD PLAN T17

STATE OF CALIFORNIA, DEPARTMENT OF TRANSPORTATION
ENCROACHMENT PERMIT GENERAL PROVISIONS
TR-0045 (REV. 08/2004)

1. AUTHORITY: The Department's authority to issue encroachment permits is provided under, Div. 1, Chpt. 3, Art. 1, Sect. 660 to 734 of the Streets and Highways Code.

2. REVOCATION: Encroachment permits are revocable on five days notice unless otherwise stated on the permit and except as provided by law for public corporations, franchise holders, and utilities. These General Provisions and the Encroachment Permit Utility Provisions are subject to modification or abrogation at any time. Permittees' joint use agreements, franchise rights, reserved rights or any other agreements for operating purposes in State highway right of way are exceptions to this revocation.

3. DENIAL FOR NONPAYMENT OF FEES: Failure to pay permit fees when due can result in rejection of future applications and denial of permits.

4. ASSIGNMENT: No party other than the permittee or permittee's authorized agent is allowed to work under this permit.

5. ACCEPTANCE OF PROVISIONS: Permittee understands and agrees to accept these General Provisions and all attachments to this permit, for any work to be performed under this permit.

6. BEGINNING OF WORK: When traffic is not impacted (see Number 35), the permittee shall notify the Department's representative, two (2) days before the intent to start permitted work. Permittee shall notify the Department's Representative if the work is to be interrupted for a period of five (5) days or more, unless otherwise agreed upon. All work shall be performed on weekdays during regular work hours, excluding holidays, unless otherwise specified in this permit.

7. STANDARDS OF CONSTRUCTION: All work performed within highway right of way shall conform to recognized construction standards and current Department Standard Specifications, Department Standard Plans High and Low Risk Facility Specifications, and Utility Special Provisions. Where reference is made to "Contractor and Engineer," these are amended to be read as "Permittee and Department representative."

8. PLAN CHANGES: Changes to plans, specifications, and permit provisions are not allowed without prior approval from the State representative.

9. INSPECTION AND APPROVAL: All work is subject to monitoring and inspection. Upon completion of work, permittee shall request a final inspection for acceptance and approval by the Department. The local agency permittee shall not give final construction approval to its contractor until final acceptance and approval by the Department is obtained.

10. PERMIT AT WORKSITE: Permittee shall keep the permit package or a copy thereof, at the work site and show it upon request to any Department representative or law enforcement officer. If the permit package is not kept and made available at the work site, the work shall be suspended.

11. CONFLICTING ENCROACHMENTS: Permittee shall yield start of work to ongoing, prior authorized, work adjacent to or within the limits of the project site. When existing encroachments conflict with new work, the permittee shall bear all cost for rearrangements, (e.g., relocation, alteration, removal, etc.).

12. PERMITS FROM OTHER AGENCIES: This permit is invalidated if the permittee has not obtained all permits necessary and required by law, from the Public Utilities Commission of the State of California (PUC), California Occupational Safety and Health Administration (Cal-OSHA), or any other public agency having jurisdiction.

13. PEDESTRIAN AND BICYCLIST SAFETY: A safe minimum passageway of 4' (1.21 meter) shall be maintained through the work area at existing pedestrian or bicycle facilities. At no time shall pedestrians be diverted onto a portion of the street used for vehicular traffic. At locations where safe alternate passageways cannot be provided, appropriate signs and barricades shall be installed at the limits of construction and in advance of the limits of construction at the nearest crosswalk or intersection to detour pedestrians to facilities across the street.

14. PUBLIC TRAFFIC CONTROL: As required by law, the permittee shall provide traffic control protection warning signs, lights, safety devices, etc., and take all other measures necessary for traveling public's safety. Day and night time lane closures shall comply with the MUTCD and CA Supplement (Part 6, Temporary Traffic Control), Standard Plans, and Standard Specifications for traffic control systems. These General Provisions are not intended to impose upon the permittee, by third parties, any duty or standard of care, greater than or different from, as required by law.

15. MINIMUM INTERFERENCE WITH TRAFFIC: Permittee shall plan and conduct work so as to create the least possible inconvenience to the traveling public; traffic shall not be unreasonably delayed. On conventional highways, permittee shall place properly attired flagger(s) to stop or warn the traveling public in compliance with the MUTCD and CA Supplement (Chapter 6E, Flagger Control).

16. STORAGE OF EQUIPMENT AND MATERIALS: The storage of equipment or materials is not allowed within State highway right-of-way, unless specified within the Special Provisions of this specific encroachment permit. If Encroachment Permit Special Provisions allow for the storage of equipment or materials within the State right of way, the equipment and material storage shall comply with Standard Specifications, Standard Plans, Special Provisions, and the Highway Design Manual. The clear recovery zone widths must be followed and are the minimum desirable for the type of facility indicated below: freeways and expressways-9 m, conventional highways (no curbs)-6 m, conventional highways (with curbs)- 0.5 m. If a fixed object cannot be eliminated, moved outside the clear recovery zone, or modified to be made yielding, it should be shielded by a guardrail or a crash cushion.

17. CARE OF DRAINAGE: Permittee shall provide alternate drainage for any work interfering with an existing drainage facility in compliance with the Standard Specifications, Standard Plans and/or as directed by the Department's representative.

18. RESTORATION AND REPAIRS IN RIGHT OF WAY: Permittee is responsible for restoration and repair of State highway right of way resulting from permitted work (State Streets and Highways Code, Sections 670 et. seq.).

19. RIGHT OF WAY CLEAN UP: Upon completion of work, permittee shall remove and dispose of all scraps, brush, timber, materials, etc. off the right of way. The aesthetics of the highway shall be as it was before work started.

20. COST OF WORK: Unless stated in the permit, or a separate written agreement, the permittee shall bear all costs incurred for work within the State right of way and waives all claims for indemnification or contribution from the State.

21. ACTUAL COST BILLING: When specified in the permit, the Department will bill the permittee actual costs at the currently set hourly rate for encroachment permits.

22 AS-BUILT PLANS: When required, permittee shall submit one (1) set of as-built plans within thirty (30) days after completion and approval of work in compliance with requirements listed as follows:

1. Upon completion of the work provided herein, the permittee shall send one vellum or paper set of As-Built plans, to the State representative. Mylar or paper sepia plans are not acceptable.
2. All changes in the work will be shown on the plans, as issued with the permit, including changes approved by Encroachment Permit Rider.
3. The plans are to be stamped or otherwise noted AS-BUILT by the permittee's representative who was responsible for overseeing the work. Any original plan that was approved with a State stamp, or Caltrans representative signature, shall be used for producing the As-Built plans.
4. If As-Built plans include signing or striping, the dates of signing or striping removal, relocation, or installation shall be shown on the plans when required as a condition of the permit. When the construction plans show signing and striping for staged construction on separate sheets, the sheet for each stage shall show the removal, relocation or installation dates of the appropriate staged striping and signing.
5. As-Built plans shall contain the Permit Number, County, Route, Post Mile, and Kilometer Position on each sheet.
6. Disclaimer statement of any kind that differ from the obligations and protections provided by Sections 6735 through 6735.6 of the California Business and Professions Code, shall not be included on the As-Built plans. Such statements constitute non-compliance with Encroachment Permit requirements, and may result in the Department of Transportation retaining Performance Bonds or deposits until proper plans are submitted. Failure to comply may also result in denial of future permits, or a provision requiring a public agency to supply additional bonding.

23. PERMITS FOR RECORD PURPOSES ONLY: When work in the right of way is within an area under a Joint Use Agreement (JUA) or a Consent to Common Use Agreement (CCUA), a fee exempt permit is issued to the permittee for the purpose of providing a notice and record of work. The Permittee's prior rights shall be preserved without the intention of creating new or different rights or obligations. "Notice and Record Purposes Only" shall be stamped across the face of the permit.

24. BONDING: The permittee shall file bond(s), in advance, in the amount set by the Department. Failure to maintain bond(s) in full force and effect will result in the Department stopping of all work and revoking permit(s). Bonds are not required of public corporations or privately owned utilities, unless permittee failed to comply with the provision and conditions under a prior permit. The surety company is responsible for any latent defects as provided in California Code of Civil Procedures, Section 337.15. Local agency permittee shall comply with requirements established as follows: In recognition that project construction work done on State property will not be directly funded and paid by State, for the purpose of protecting stop notice claimants and the interests of State relative to successful project completion, the local agency permittee agrees to require the construction contractor furnish both a payment and performance bond in the local agency's name, with both bonds complying with the requirements set forth in Section 3-1.02 of State's current Standard Specifications before performing any project construction work. The local agency permittee shall defend, indemnify, and hold harmless the State, its officers and employees from all project construction related claims by contractors and all stop notice or mechanic's lien claimants. The local agency also agrees to remedy, in a timely manner and to State's satisfaction, any latent defects occurring as a result of the project construction work.

25. FUTURE MOVING OF INSTALLATIONS: Permittee understands and agrees to rearrange a permitted installation upon request by the Department, for State construction, reconstruction, or maintenance work on the highway. The permittee at his sole expense, unless under a prior agreement, JUA, or a CCUA, shall comply with said request.

26. ARCHAEOLOGICAL/HISTORICAL: If any archaeological or historical resources are revealed in the work vicinity, the permittee shall immediately stop work, notify the Department's representative, retain a qualified archaeologist who shall evaluate the site, and make recommendations to the Department representative regarding the continuance of work.

27. PREVAILING WAGES: Work performed by or under a permit may require permittee's contractors and subcontractors to pay appropriate prevailing wages as set by the Department of Industrial Relations. Inquiries or requests for interpretations relative to enforcement of prevailing wage requirements are directed to State of California Department of Industrial Relations, 525 Golden Gate Avenue, San Francisco, California 94102.

28. RESPONSIBILITY FOR DAMAGE: The State of California and all officers and employees thereof, including but not limited to the Director of Transportation and the Deputy Director, shall not be answerable or accountable in any manner for injury to or death of any person, including but not limited to the permittee, persons employed by the permittee, persons acting in behalf of the permittee, or for damage to property from any cause. The permittee shall be responsible for any liability imposed by law and for injuries to or death of any person, including but not limited to the permittee, persons employed by the permittee, persons acting in behalf of the permittee, or for damage to property arising out of work or other activity permitted and done by the permittee under a permit or arising out of the failure on the permittee's part to perform his obligations under any permit in respect to maintenance or any other obligations, or resulting from defects or obstructions, or from any cause whatsoever during the progress of the work or other activity or at any subsequent time, work or other activity is being performed under the obligations provided by and contemplated by the permit.

The permittee shall indemnify and save harmless the State of California, all officers, employees, and State's contractors, thereof, including but not limited to the Director of Transportation and the Deputy Director, from all claims, suits or actions of every name, kind and description brought for or on account of injuries to or death of any person, including but not limited to the permittee, persons employed by the permittee, persons acting in behalf of the permittee, and the public, or damage to property resulting from the performance of work or other activity under the permit, or arising out of the failure on the permittee's part to perform his obligations under any permit in respect to maintenance or any other obligations, or resulting from defects or obstructions, or from any cause whatsoever during the progress of the work, or other activity or at any subsequent time, work or other activity is being performed under the obligations provided by and contemplated by the permit, except as otherwise provided by statute.

The duty of the permittee to indemnify and save harmless includes the duties to defend as set forth in Section 2778 of the Civil Code. The

Receipt #: NA (Inter-Departmental Transfer)
Amt $490.00
Check # NA
By: JR
Date: 07/06/06
TO BE FILLED OUT BY ENVIRONMENTAL HEALTH DEPT

Placer County
Department of Health and Human Services
Environmental Health Services
11454 B Ave., Auburn CA 95603 (530) 745-2300
Tahoe Office: P O Box 1909, Tahoe City CA 96145 (530) 581-6240

UST/SOLID WASTE PROGRAMS
Permit Application for:
WELL CONSTRUCTION/DESTRUCTION

1. SR # 34014
2. SR #
3. SR #
4. SR #
5. SR #
6. SR #
TO BE FILLED OUT BY ENV HLTH DEPT

WELL DESIGNATIONS AS SHOWN ON PLOT PLAN

1. Well ID B-1 – B-15	2. Well ID	3. Well ID
4. Well ID	5. Well ID	6. Well ID

Project Name KINGS BEACH SIDEWALK	Project Address HIGHWAY 28	Location KINGS BEACH, CA 96143
Well Owner (project owner) STATE OF CALIFORNIA	Well Owner Address P.O. BOX 911 MARYSVILLE CA	Telephone 530-741-4403
Consultant's Name DAVID HERZOG C/O KLEINFELDER	Consultant's Address 4335 CONGRESS LANE RENO 89502	Telephone 775-689-7800
Consultant's Registration CEG 1295		

If the well is to be located on ADJOINING OR NEARBY PROPERTY owned by another person, you must have that off-site property owner complete the acknowledgement below or attach copies of access agreements.

ACKNOWLEDGEMENT OF OFF-SITE PROPERTY OWNER

I have read this application form and I approve of the construction of this proposed well See Attached

Well Site Address	
Property Owners Name and Address	Telephone
Property Owners Signature	Date

SUBMITTED SIGNATURE MUST BE ORIGINAL

Please indicate type of well:

- ☐ Groundwater Monitoring
- ☒ Exploratory Boring /Hydropunch/Geoprobe (indicate number) _____
- ☐ Water Extraction
- ☐ Other (specify) _____
- ☐ Vapor Extraction
- ☐ Well Destruction
- ☐ Gas Probe
- ☐ Vadose/Lysimeter

PURPOSE OF WELL (if not explained in Workplan) _____

Construction Specifications:

- ☐ Well Specifications and site plan attached
- ☒ Well Specifications and site plan included in workplan dated 9/5/06
  Prepared by KLEINFELDER

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

ENCROACHMENT PERMIT

TR-0120 (REV 6/200)

Permit No. 0306-NSV0685	
Dist/Co/Rte/PM 03-PLA-28-9.34/10.68	
Date September 19, 2006	
Fee Paid $ Exempt	Deposit $ N/A
Performance Bond Amount (1) $ N/A	Payment Bond Amount (2) $ N/A
Bond Company	
Bond Number (1)	Bond Number (2)

In compliance with (Check one):

- ☒ Your application of September 6, 2006
- ☐ Utility Notice No. _____ of _____
- ☐ Agreement No. _____ of _____
- ☐ R/W Contract No. _____ of _____

TO: Placer County Department of Public Works
c/o Kleinfelder, Inc.
4835 Longley Lane
Reno, NV 89502
Attn: David Herzog
775-689-7800

Ref No.

, PERMITTEE

and subject to the following, PERMISSION IS HEREBY GRANTED to:
Drill 15 borings having 2-inch Dia, 10 feet deep along the shoulder of State Highway 28 as per attached plans.
The holes need to be filled as per the satisfaction of Caltrans representative.
An approval from USA (Underground Service Alert) is required before digging the holes.

Permittee shall contact State inspector Ron Mills, telephone, (530) 582-8133 Cellular (530) 755-6688, SEVEN (7) working days prior to commencing work, to arrange a pre-job meeting. A 24-hour notification before restarting work shall be strictly adhered to. All work shall be conducted and completed to the satisfaction of Caltrans representative. Immediately following completion of the work permitted herein, the Permittee shall fill out and mail the Notice of Completion attached to this Permit.

THIS PERMIT IS NOT A PROPERTY RIGHT AND DOES NOT TRANSFER WITH THE PROPERTY TO A NEW OWNER.

The following attachments are also included as part of this permit *(Check applicable)*:

☒ Yes	☐ No	General Provisions
☐ Yes	☒ No	Utility Maintenance Provisions
☒ Yes	☐ No	Special Provisions TRAFFIC CONTROL
☐ Yes	☒ No	A Cal-OSHA permit, if required: Permit No. _____
☐ Yes	☒ No	As-Built Plans Submittal Route Slip for Locally Advertised Projects
☐ Yes	☒ No	Storm Water Pollution Protection Plan

In addition to fee, the permittee will be billed actual costs for:

☐ Yes	☒ No	Review
☐ Yes	☒ No	Inspection
☒ Yes	☐ No	Field work

(If any Caltrans effort expended)

☐ Yes ☒ No The information in the environmental documentation has been reviewed and considered prior to approval of this permit.

This permit is void unless the work is completed before December 1, 2006

This permit is to be strictly construed and no other work other than specifically mentioned is hereby authorized.
No project work shall be commenced until all other necessary permits and environmental clearances have been obtained

Ron Mills
P.O. Box 579
Truckee, CA 96160
(530) 582-8133 Cellular (530) 755-6688

cc: Stan Richins, Maint-Sutter/Sierra Region

APPROVED:

JODY JONES, District Director

BY: for

BRUCE D. CAPAUL, Chief-Office of Encroachment Permits

ADA Notice For individuals with sensory disabilities, this document is available in alternate formats. For information call (916) 653-3867 or TDD (916) 654-3880 or write Records and Forms Management, 1120 N Street, MS-89, Sacramento, CA 95814.

FM 01 1436

09/20/2005 07:36 5307414236 ENCROACHDIV CHIEF PAGE 02/02
09/20/06 15:24 FAX 775 689 7810 KLEINFELDER, INC 002/002

OFFICE OF THE
Placer County Health & Human Services
ENVIRONMENTAL HEALTH SERVICES
11454 "B" Avenue, Auburn, CA 95603
(530) 745-2300, FAX (530) 886-3344

WELL DRILLER'S AUTHORIZATION LETTER

Site Address: HIGHWAY 28

City, Zip: KINGS BEACH, CA 96143

Well Driller: Western Strata Exploration Inc.

Driller's Address: P.O. Box 657

City, Zip: Clarksburg, Ca. 95612

Driller's Phone #: 916-744-1440

C-57 License #: 57-552198 Expiration Date:

Cancelled 09/25/06. See Well Driller's Authorization Letter from the substitute driller, Environmental Control Associates (ECA) Inc.

For the sole purpose of procuring permits for the construction, modification, repair, or destruction of wells or soil borings. I hereby designate the following entity(ies) to act as my authorized representatives:

Name(s): DAVID HERZOG

Company: KLEINFELDER

Address: 4835 GONGLEY LANE

City, Zip: RENO, NV 89502

I understand that, as the applicant for permit for activities regulated under Subchapter 8 of the Placer County Code, I am responsible for compliance with all provisions of the Chapter. I further understand that, upon written notification to the Division of Environmental Health, I may rescind this authorization:

Signature of Licensed Well Driller:

Printed Name: Gordon Jensen

Date: 9/5/06

DRILLING CONTRACTOR INFORMATION AND CERTIFICATION

Project Name: KINGS BEACH SIDEWALKS

Drilling Company Name: Western Shelf Exploration — C-57 License No. 57-552198

Drilling Company Address: P.O. Box 657 Clarksburg, CA — Phone #( ) 916-744-1440

Driller scheduled 09/25/06 See Well Drillers Authorization Letter from Substituted driller Environmental Control Associates (ECA) Inc.

A. **NOTICE TO DRILLING CONTRACTOR: The Environmental Health Division shall be notified at least 48 hours in advance of drilling to schedule the REQUIRED inspections.**

B. **DRILLING CONTRACTOR'S WORKERS COMPENSATION DECLARATION**
(ONE of the following three boxes must be completed)

☐ 1. A certified copy of Worker's Compensation Insurance is hereby furnished.

☑ 2. A current effective certificate is filed with Placer County Building Department or Environmental Health Division.

☐ 3. I certify that in performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to the California Worker's Compensation Act.

C. If well is located in or may otherwise obstruct public right-of-way, an encroachment permit is required.

I HAVE READ AND UNDERSTAND THE FOREGOING STATEMENTS (A, B & C) AND CERTIFY THAT ALL RELEVANT ACTIVITIES WILL BE PERFORMED IN COMPLIANCE WITH THESE STATEMENTS AND APPLICABLE CODES AND REGULATIONS. I HAVE SHOWN ALL EASEMENTS ON THE PROPERTY.

Well Drilling Contractor Signature [signature] Date 9/5/06

FOR OFFICIAL USE ONLY
Below this point

☐ RWQCB Concurrence Received

This permit is issued subject to the following conditions. If these conditions are not satisfied, this approval/permit is null and void.

1. Monitoring wells shall be destroyed as required by the Environmental Health Division or R.W.Q.C.B.
2. Monitoring wells shall be capped and locked at all times except during sampling.
3. This permit expires one (1) year after date of issuance, but may be renewed for a fee if application is made PRIOR to expiration date.
4. All wells shall be constructed/destroyed pursuant to the standards set forth in the State of California Water Well Standards, Bulletin 74-90.

When signed by Placer County Environmental Health Division authorized representative, the application constitutes a PERMIT TO CONSTRUCT the subject well as herein specified:

John C. Reid, REHS — Permit Issued by: — Date 09/25/06

Seal Inspection Date: 09/25/06, 09/26/06 — Comments: 09/25/06 Soil borings B-1 to B-10 and B-12 were advanced, sampled and sealed. 09/26/06 Soil borings B-11 and B-13 to B-15 were advanced, sampled and sealed. Okay to finalize this permit. John C. Reid, REHS 09/26/06

OFFICE OF THE
Placer County Health & Human Services
ENVIRONMENTAL HEALTH
SERVICES
11454 "B" Avenue, Auburn, CA 95603
(530) 745-2300, FAX (530) 886-3344

WELL DRILLER'S AUTHORIZATION LETTER

Site Address: Kings Beach Sidewalk Project, North Lake Boulevard (Highway 28)

City, Zip: Kings Beach 96143

Well Driller: ECA, Inc.

Driller's Address: 605 West Lake Blvd. #3 (P.O. Box 52)

City, Zip: Tahoe City 96145

Driller's Phone #: (530) 581-6240

C-57 License #: 695970 Expiration Date: 9/30/08

For the sole purpose of procuring permits for the construction, modification, repair, or destruction of wells or soil borings. I hereby designate the following entity(ies) to act as my authorized representatives:

Name(s): David Herzog

Company: Klondelder Inc.

Address: 4835 Longley Lane

City, Zip: Reno NV 89502

I understand that, as the applicant for permit for activities regulated under Subchapter 8 of the Placer County Code, I am responsible for compliance with all provisions of the Chapter. I further understand that, upon written notification to the Division of Environmental Health, I may rescind this authorization:

Signature of Licensed Well Driller: [signature]

Printed Name: Tim Taylor for ECA

Date: 09/20/05

APPENDIX B

Boring Logs

DEPTH IN FEET	Dry Density lb/ft	Moisture Content %	Blows/ Ft.	PID	Sample	GRAPHIC LOG	SOIL DESCRIPTION
0							**3" ASPHALT CONCRETE**
							1.25 FEET AGGREGATE BASE
				1			**BROWN SILTY GRAVEL WITH SAND (GM)** moist, no odor.
2							
				1.2			
4				1.5			
				2.8			
							BROWN SILTY SAND WITH GRAVEL TRACE CLAY (SM) moist, medium dense, mottled with reddish brown, no odor.
6				1.2			
				1.4			
8				1.4			
				1.3			
10				1.3			No free water encountered.
12							

DATE: **9-25-06**
TOTAL DEPTH: **10.0 feet**

LOGGED BY: **P. TOUSIGNANT**
EQUIPMENT: **GEOPROBE**

KLEINFELDER

PROJECT NO. **74330.03**

KINGS BEACH COMMERCIAL CORE IMPROVEMENT PROJECT
NORTH LAKE BOULEVARD
KINGS BEACH, CALIFORNIA
LOG OF B-1

PLATE
2

DEPTH IN FEET	Dry Density lb/ft	Moisture Content %	Blows/ Ft.	PID	Sample	GRAPHIC LOG	SOIL DESCRIPTION
0							**5.5" ASPHALT CONCRETE**
							BROWN SANDY GRAVEL (BASEROCK) dry, dense.
				0.8			**BROWN SILTY SAND (SM)** moist, loose, no odor.
2				1.1			
							BROWN GRAVELLY SAND (SP) moist, dense, no odor.
				1.1			
							Water line at 3.5 feet
4							**DARK BROWN SILTY SAND (SM)** moist, medium dense, no odor.
				3.0			
							Mottled with reddish brown, very moist, dense
6				3.1			
				1.8			
8							
				1.8			Increased mottling, some black
				3.1			
10							No free water encountered.
12							

DATE: **9-25-06**
TOTAL DEPTH: **10.0 feet**

LOGGED BY: **P. TOUSIGNANT**
EQUIPMENT: **GEOPROBE**

KLEINFELDER

PROJECT NO. 74330.03

KINGS BEACH COMMERCIAL CORE IMPROVEMENT PROJECT
NORTH LAKE BOULEVARD
KINGS BEACH, CALIFORNIA
LOG OF B-2

PLATE
3

Dry Density lb/ft	Moisture Content %	Blows/ Ft.	PID	Sample	GRAPHIC LOG	SOIL DESCRIPTION
						6" ASPHALT CONCRETE
						BROWN SANDY GRAVEL (BASEROCK) dry, dense.
			1.2			**REDDISH BROWN SILTY SAND (SM)** moist, dense, no odor.
			1.8			
			4.4			
			2.5			Color change to brown
						Very moist
			2.5			
			3.6			Color change to gray brown, faint petroleum odor
			2.8			No free water encountered.

DEPTH IN FEET: 0, 2, 4, 6, 8, 10, 12

DATE: **9-25-06**
TOTAL DEPTH: **10.0 feet**

LOGGED BY: **P. TOUSIGNANT**
EQUIPMENT: **GEOPROBE**

KLEINFELDER

PROJECT NO. **74330.03**

KINGS BEACH COMMERCIAL CORE IMPROVEMENT PROJECT
NORTH LAKE BOULEVARD
KINGS BEACH, CALIFORNIA
LOG OF B-3

PLATE
4

Dry Density lb/ft	Moisture Content %	Blows/ Ft.	PID	Sample	GRAPHIC LOG	SOIL DESCRIPTION
						3" ASPHALT CONCRETE
						BROWN SANDY GRAVEL (BASEROCK) dry, dense.
			1.3			**REDDISH BROWN SILTY SAND (SM)** moist, medium dense, no odor.
			1.7			
			1.9			
			2.1			
			3.3			
						Very moist to wet, medium dense
			4.5			
						Faint petroleum odor
			2.4			
			1.8			No free water encountered.

DEPTH IN FEET: 0, 2, 4, 6, 8, 10, 12

DATE: **9-25-06**
TOTAL DEPTH: **10.0 feet**

LOGGED BY: **P. TOUSIGNANT**
EQUIPMENT: **GEOPROBE**

KLEINFELDER

PROJECT NO. **74330.03**

KINGS BEACH COMMERCIAL CORE IMPROVEMENT PROJECT
NORTH LAKE BOULEVARD
KINGS BEACH, CALIFORNIA
LOG OF B-4

PLATE
5

Dry Density lb/ft	Moisture Content %	Blows/ Ft.	PID	Sample	GRAPHIC LOG	SOIL DESCRIPTION
						4" ASPHALT CONCRETE
						BROWN SANDY GRAVEL (BASEROCK) dry, dense.
						BROWN SILTY SAND (SM) moist, medium dense, no odor.
			1.4			
			1.8			
			1.9			Conduit at 3 feet
			1.9			Color change to reddish brown, very moist
			1.9			
			7.8			
			2.2			
						Color change to grayish brown, mottled with reddish brown
			6.1			
			4.2			
						No free water encountered.

DEPTH IN FEET: 0, 2, 4, 6, 8, 10, 12

DATE: 9-25-06
TOTAL DEPTH: 10.0 feet

LOGGED BY: P. TOUSIGNANT
EQUIPMENT: GEOPROBE

KLEINFELDER

PROJECT NO. 74330.03

KINGS BEACH COMMERCIAL CORE IMPROVEMENT PROJECT
NORTH LAKE BOULEVARD
KINGS BEACH, CALIFORNIA
LOG OF B-5

PLATE
6

Dry Density lb/ft	Moisture Content %	Blows/ Ft.	PID	Sample	GRAPHIC LOG	SOIL DESCRIPTION
						3" ASPHALT CONCRETE
						BROWN SANDY GRAVEL (BASEROCK) dry, dense.
						REDDISH BROWN SILTY SAND (SM) moist, medium dense, no odor.
			2.8			
			2.2			
						Very moist to wet
			3.0			
			2.4			
						Color change to gray, petroleum odor
			250			
			45			
						No free water encountered.

DEPTH IN FEET: 0, 2, 4, 6, 8, 10, 12

DATE: **9-25-06**
TOTAL DEPTH: **10.0 feet**

LOGGED BY: **P. TOUSIGNANT**
EQUIPMENT: **GEOPROBE**

KLEINFELDER

PROJECT NO. **74330.03**

KINGS BEACH COMMERCIAL CORE IMPROVEMENT PROJECT
NORTH LAKE BOULEVARD
KINGS BEACH, CALIFORNIA
LOG OF B-6

PLATE
7

Dry Density lb/ft	Moisture Content %	Blows/ Ft.	PID	Sample	GRAPHIC LOG	SOIL DESCRIPTION
						5" ASPHALT CONCRETE
						BROWN SANDY GRAVEL (BASEROCK) dry, dense.
			2.1			**BROWN SILTY SAND (SM)** moist, medium dense, no odor.
			1.9			
			1.9			
			1.7			
			1.9			
			2.1			Mottled with grayish brown
			2.9			
						Mottled with reddish brown
			1.9			
			1.6			Very moist
			2.1			No free water encountered.

DEPTH IN FEET: 0, 2, 4, 6, 8, 10, 12

DATE: 9-25-06
TOTAL DEPTH: 10.0 feet

LOGGED BY: P. TOUSIGNANT
EQUIPMENT: GEOPROBE

KLEINFELDER

PROJECT NO. 74330.03

KINGS BEACH COMMERCIAL CORE IMPROVEMENT PROJECT
NORTH LAKE BOULEVARD
KINGS BEACH, CALIFORNIA
LOG OF B-7

PLATE
8

DEPTH IN FEET	Dry Density lb/ft	Moisture Content %	Blows/ Ft.	PID	Sample	GRAPHIC LOG	SOIL DESCRIPTION
0							**5" ASPHALT CONCRETE**
				1.1			**BROWN SANDY GRAVEL (BASEROCK)** dry, dense.
				1.9			
2							**REDDISH BROWN SILTY SAND (SM)** moist, medium dense, no odor.
				2.1			Water line at 3 feet
				2.7			
4							**BROWN SANDY GRAVEL (GP)** moist, very dense, no odor.
				1.9			
							Refusal at 5 feet.
							No free water encountered.
6							
8							
10							
12							

DATE: **9-25-06**
TOTAL DEPTH: **5.0 feet**

LOGGED BY: **P. TOUSIGNANT**
EQUIPMENT: **GEOPROBE**

KLEINFELDER

PROJECT NO. **74330.03**

KINGS BEACH COMMERCIAL CORE IMPROVEMENT PROJECT
NORTH LAKE BOULEVARD
KINGS BEACH, CALIFORNIA
LOG OF B-8

PLATE
9

Dry Density lb/ft	Moisture Content %	Blows/ Ft.	PID	Sample	GRAPHIC LOG	SOIL DESCRIPTION
						5" ASPHALT CONCRETE
						BROWN SANDY GRAVEL (BASEROCK) dry, dense.
			1.9			**BROWN SILTY SAND WITH GRAVEL (SM)** slightly moist, no odor, mottled with reddish brown and light tan.
			2.5			Color change to reddish brown, moist, medium dense
			2.9			
			2.5			
			2.8			
			2.5			**BROWN CLAYEY SAND WITH SILT (SC)** moist to very moist, medium dense, no odor, mottled with reddish brown and black.
			1.9			
			1.7			
						No free water encountered.

DEPTH IN FEET: 0, 2, 4, 6, 8, 10, 12

DATE: 9-25-06
TOTAL DEPTH: 10.0 feet

LOGGED BY: P. TOUSIGNANT
EQUIPMENT: GEOPROBE

KLEINFELDER

PROJECT NO. 74330.03

KINGS BEACH COMMERCIAL CORE IMPROVEMENT PROJECT
NORTH LAKE BOULEVARD
KINGS BEACH, CALIFORNIA
LOG OF B-9

PLATE
10

Dry Density lb/ft	Moisture Content %	Blows/ Ft.	PID	Sample	GRAPHIC LOG	SOIL DESCRIPTION
						2" ASPHALT CONCRETE
						BROWN SANDY GRAVEL (BASEROCK) dry, dense.
						BROWN SILTY SAND (SM) moist, medium dense, no odor.
			1.9			
			1.5			Color change to dark gray, mottled with reddish brown
			1.6			
			3.4			Color change to dark brown
			3.1			
						Color change to reddish brown
			1.9			
			2.7			
			1.8			
	▽					**GRAY SILTY GRAVEL WITH SAND (GM)** wet, dense, no odor.

DEPTH IN FEET: 0, 2, 4, 6, 8, 10, 12

DATE: **9-25-06**
TOTAL DEPTH: **10.0 feet**

LOGGED BY: **P. TOUSIGNANT**
EQUIPMENT: **GEOPROBE**

KLEINFELDER

PROJECT NO. **74330.03**

KINGS BEACH COMMERCIAL CORE IMPROVEMENT PROJECT
NORTH LAKE BOULEVARD
KINGS BEACH, CALIFORNIA
LOG OF B-10

PLATE
11

Dry Density lb/ft	Moisture Content %	Blows/ Ft.	PID	Sample	GRAPHIC LOG	SOIL DESCRIPTION
						6" ASPHALT CONCRETE
			1.1			**BROWN SANDY GRAVEL (BASEROCK)** dry, dense.
			1.2			**GRAY BROWN SILTY SAND OCCASIONAL GRAVEL (SM)** dry, dense, no odor.
			1.6			
			1.2			
			1.6			**GRAY BROWN GRAVELLY SAND (SP)** dry, dense, no odor.
			1.1			
			1.1			Cobble at 6-7 feet
			1.4			
			1.2			**ORANGE BROWN SILTY SAND (SM)** moist, dense, no odor.
						No free water encountered.

DEPTH IN FEET: 0, 2, 4, 6, 8, 10, 12

DATE: 9-26-06
TOTAL DEPTH: 10.0 feet

LOGGED BY: D. HERZOG
EQUIPMENT: GEOPROBE

KLEINFELDER

PROJECT NO. 74330.03

KINGS BEACH COMMERCIAL CORE IMPROVEMENT PROJECT
NORTH LAKE BOULEVARD
KINGS BEACH, CALIFORNIA
LOG OF B-11

PLATE
12

Dry Density lb/ft	Moisture Content %	Blows/ Ft.	PID	Sample	GRAPHIC LOG	SOIL DESCRIPTION
						6" ASPHALT CONCRETE
						BROWN SANDY GRAVEL (BASEROCK) dry, dense.
			0.0			**GRAY BROWN SILTY SAND (SM)** moist, medium dense, slight petroleum odor.
			0.0			
						Color change to reddish brown, dense, no odor
			0.9			
			0.1			
						Color change to gray brown, petroleum odor
			0.1			
						GRAY BROWN GRAVELLY SAND (SP) dry, dense, no odor.
			0.2			
			0.1			
						REDDISH BROWN CLAYEY SAND (SC) moist, dense, no odor.
			0.2			
						GRAY BROWN SAND (SP) moist, dense, slight petroleum odor.
			0.2			
						TAN BROWN GRAVELLY SAND (SP) moist, dense, no odor.
			0.6			
						No free water encountered.

DEPTH IN FEET: 0, 2, 4, 6, 8, 10, 12

DATE: **9-26-06**
TOTAL DEPTH: **10.0 feet**

LOGGED BY: **D. HERZOG**
EQUIPMENT: **GEOPROBE**

KLEINFELDER

PROJECT NO. **74330.03**

KINGS BEACH COMMERCIAL CORE IMPROVEMENT PROJECT
NORTH LAKE BOULEVARD
KINGS BEACH, CALIFORNIA
LOG OF B-12

PLATE
13

Dry Density lb/ft	Moisture Content %	Blows/ Ft.	PID	Sample	GRAPHIC LOG	SOIL DESCRIPTION
						3" ASPHALT CONCRETE
			1.6			**REDDISH BROWN CLAYEY GRAVEL (GC)** moist, medium dense, no odor.
			1.8			**BROWN SILTY GRAVEL WITH SAND TRACE CLAY (GM)** slightly moist, medium dense, no odor.
			1.5			
			1.1			**GRAYISH BROWN SILTY SAND (SM)** moist, dense, no odor, mottled with reddish brown.
			1.1			
			1.2			
			0.8			
			1.4			
			1.1			
			1.0			No free water encountered.

DEPTH IN FEET: 0, 2, 4, 6, 8, 10, 12

DATE: 9-26-06
TOTAL DEPTH: 10.0 feet

LOGGED BY: D. HERZOG
EQUIPMENT: GEOPROBE

KLEINFELDER

PROJECT NO. 74330.03

KINGS BEACH COMMERCIAL CORE IMPROVEMENT PROJECT
NORTH LAKE BOULEVARD
KINGS BEACH, CALIFORNIA
LOG OF B-13

PLATE
14

Dry Density lb/ft	Moisture Content %	Blows/ Ft.	PID	Sample	GRAPHIC LOG	SOIL DESCRIPTION
						4" ASPHALT CONCRETE
			0.6			**BROWN SANDY GRAVEL (BASEROCK)** dry, dense.
			0.6			**DARK GRAY BROWN SILTY SAND (SM)** moist, dense, slight hydrocarbon odor.
			0.6			
			0.8			
						No odor at 4 feet, refusal at 4 feet, move over 1 foot
			1.2			**REDDISH BROWN CLAYEY SAND (SC)** moist, dense, no odor, obstruction at 4.5 feet.
			NS			Cobble at 5.5 feet, no recovery
			1.0			
			2.9			**REDDISH BROWN SILTY SAND (SM)** moist, dense, no odor.
			2.2			
			17.2			Color change to olive tan
						Strong odor at 10 feet
						No free water encountered.

DEPTH IN FEET: 0, 2, 4, 6, 8, 10, 12

DATE: 9-26-06
TOTAL DEPTH: 10.0 feet

LOGGED BY: D. HERZOG
EQUIPMENT: GEOPROBE

KLEINFELDER

PROJECT NO. 74330.03

KINGS BEACH COMMERCIAL CORE IMPROVEMENT PROJECT
NORTH LAKE BOULEVARD
KINGS BEACH, CALIFORNIA
LOG OF B-14

PLATE
15

Dry Density lb/ft	Moisture Content %	Blows/ Ft.	PID	Sample	GRAPHIC LOG	SOIL DESCRIPTION
						5" ASPHALT CONCRETE
			0.4			**BROWN SANDY GRAVEL (BASEROCK)** dry, dense.
			1.1			**FILL: DARK BROWN SAND (SP)** moist, dense, no odor.
			0.8			Slight odor at 3 feet
			0.8			**FILL: REDDISH BROWN GRAVELLY SAND (SP)** moist, dense, no odor.
			1.6			Wet at 5 feet
			2.3			
			0.5			
			0.8			**LIGHT BROWN CLAYEY SAND (SC)** moist, dense, no odor.
			0.9			
			0.5			
						No free water encountered.

DEPTH IN FEET: 0, 2, 4, 6, 8, 10, 12

DATE: 9-26-06
TOTAL DEPTH: 10.0 feet

LOGGED BY: D. HERZOG
EQUIPMENT: GEOPROBE

KLEINFELDER

PROJECT NO. 74330.03

KINGS BEACH COMMERCIAL CORE IMPROVEMENT PROJECT
NORTH LAKE BOULEVARD
KINGS BEACH, CALIFORNIA
LOG OF B-15

PLATE
16

THE UNIFIED SOIL CLASSIFICATION SYSTEM

MAJOR DIVISIONS				GROUP SYMBOLS	TYPICAL NAMES
COARSE GRAINED SOIL More than 50% of the material is LARGER than the No. 200 sieve.	GRAVELS More than 50% of coarse part is LARGER than the No. 4 Sieve.	CLEAN GRAVELS Less than 5% finer than No. 200 Sieve.	PI<4	GW	Well graded gravels, gravel – sand mixtures, little or no fines, Cu>4 & 1<Cc>3
			PI>7	GP	Poorly graded gravels or gravel – sand mixtures, little or no fines Cu<4 or 1>Cc<3
		GRAVEL More than 12% finer than No. 200 Sieve.		GM	Silty gravels, gravel – sand – silt mixtures
				GC	Clayey gravels, gravel – sand – clay mixtures
	SANDS More than 50% of coarse part is SMALLER than the No. 4 Sieve.	CLEAN SANDS Less than 5% finer than No. 200 Sieve.		SW	Well graded sands, gravelly sands, little or no or no fines, Cu>6 & 1<Cc>3
				SP	Poorly graded sands or gravelly sands, little or no fines Cu<6 or 1>Cc<3
		SAND More than 12% finer than No. 200 Sieve.	PI<4	SM	Silty sands, sand – silt mixtures
			PI>7	SC	Clayey sands, sand – clay mixtures
FINE GRAINED SOIL More than 50% of the material is SMALLER than the No. 200 sieve.	SILTS AND CLAYS Liquid limit LESS than 50	PI–Below A–Line		ML	Inorganic silts, rock flour, or clayey silts of low plasticity
		PI–Above A–Line		CL	Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, silty clays, lean clays
				OL	Organic silts & organic clays of low plasticity
	SILTS AND CLAYS Liquid limit GREATER than 50	PI–Below A–Line		MH	Inorganic silts, clayey silts, or silts of high plasticity
		PI–Above A–Line		CH	Inorganic clays of high plasticity, fat clays
				OH	Organic clays of medium to high plasticity, organic silts
HIGHLY ORGANIC SOILS				PT	Peat & other highly organic soils

BOUNDARY CLASSIFICATIONS: Soils possessing characteristics of two groups are designated by combinations of group symbols.

PARTICLE SIZE LIMITS

BOULDERS	COBBLES	GRAVEL		SAND			SILT	CLAY
		Coarse	Fine	Coarse	Medium	Fine		

12" 3" 3/4" #4 #10 #40 #200 0.002 mm

DESCRIPTIVE TERMS USED WITH SOILS

CONSISTENCY & APPARENT DENSITY	SILTS & CLAYS	SANDS & GRAVELS
Strongest	Hard	Very Dense
	Very Stiff	Dense
	Stiff	Medium Dense
	Medium Stiff	Loose
	Soft	Very Loose
Weakest	Very Soft	

MOISTURE CONTENT	
Wettest	Wet
	Very Moist
	Moist
	Slightly Moist
Driest	Dry

▽ – Water Level Observed During Exploration

▼ – Water Level Observed After Exploration

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KLEINFELDER
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RENO, NEVADA 89502
Tel. (775) 689-7800

PROJECT NO. 74330.03

KEY TO SOIL CLASSIFICATION AND TERMS

KINGS BEACH COMMERCIAL CORE IMPROVEMENT PROJECT
NORTH LAKE BOULEVARD
KINGS BEACH, CALIFORNIA

PLATE **17**

CAD FILE: L:\2006\DRAFTING\74330\74330-USCS.dwg

SYMBOLS

Disturbed Bag or Bulk Sample

Standard Penetration Sample
(1.4 inch I.D., 2.0 inch O.D.)

Modified California (Porter) Sample
(2.0 inch I.D., 2.56 inch O.D.)

* No Sample Recovery

Water Level Observed During Drilling

Water Level Observed After Drilling

COMMENTS

NOTE: Blow count represents the number of blows required to drive a sampler through the last 12 inches of an 18 inch penetration. A standard 140 pound hammer with a 30.4 inch free fall is used to drive the sampler.

NOTE: The lines separating strata on the logs represent approximate boundaries only. The actual transition may be gradual. No warranty is provided as to the continuity of soil strata between borings.

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PROJECT NO. 74330.03

KEY TO BORING LOGS

KINGS BEACH COMMERCIAL CORE
IMPROVEMENT PROJECT
NORTH LAKE BOULEVARD
KINGS BEACH, CALIFORNIA

PLATE
18

CAD FILE: L:\2006\DRAFTING\74330\74330-USCS.dwg

APPENDIX C

Laboratory Reports

Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

Kleinfelder
4835 Longley Lane
Reno, NV 89502

Attn: Dave Herzog
Phone: (775) 689-7800
Fax: (775) 689-7810
Date Received : 09/27/06

Job#: 74330.02

Metals by ICPMS
EPA Method SW6020 / SW6020A

		Parameter	Concentration	Reporting Limit	Date Sampled	Date Analyzed
Client ID :	**B-2 1-2ft.**					
Lab ID :	KLF06092756-04A	Lead (Pb)	11	1.0 mg/Kg	09/25/06	10/23/06
Client ID :	**B-6 8-9ft.**					
Lab ID :	KLF06092756-18A	Lead (Pb)	4.7	1.0 mg/Kg	09/25/06	10/23/06
Client ID :	**B-9 2-3ft.**					
Lab ID :	KLF06092756-24A	Lead (Pb)	6.0	1.0 mg/Kg	09/25/06	10/23/06
Client ID :	**B-10 4-5ft.**					
Lab ID :	KLF06092756-28A	Lead (Pb)	7.1	1.0 mg/Kg	09/25/06	10/23/06
Client ID :	**B-13 2-3ft.**					
Lab ID :	KLF06092756-30A	Lead (Pb)	3.8	1.0 mg/Kg	09/25/06	10/23/06
Client ID :	**B-11 4-5ft.**					
Lab ID :	KLF06092756-37A	Lead (Pb)	25	1.0 mg/Kg	09/26/06	10/23/06
Client ID :	**B-12 4-5ft.**					
Lab ID :	KLF06092756-41A	Lead (Pb)	3.2	1.0 mg/Kg	09/26/06	10/23/06
Client ID :	**B-15 4-5ft.**					
Lab ID :	KLF06092756-47A	Lead (Pb)	2.8	1.0 mg/Kg	09/26/06	10/23/06

Roger Scholl Randy Gardner Walter Hinchman

Roger L Scholl, Ph.D., Laboratory Director • • Randy Gardner, Laboratory Manager • • Walter Hinchman, Quality Assurance Officer
Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 281-4848 / info@alpha-analytical.com

10/26/06
Report Date

Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

Kleinfelder
4835 Longley Lane
Reno, NV 89502

Attn: Dave Herzog
Phone: (775) 689-7800
Fax: (775) 689-7810
Date Received : 09/27/06

Job#: 74330.02

Total Petroleum Hydrocarbons - Extractable (TPH-E) EPA Method SW8015B
Total Petroleum Hydrocarbons - Purgeable (TPH-P) EPA Method SW8015B
Volatile Organic Compounds (VOCs) EPA Method SW8260B

		Parameter	Concentration		Reporting Limit	Date Sampled	Date Analyzed
Client ID :	**B1 1-2ft.**	TPH-E (Diesel)	21	*	5.0 mg/Kg	09/25/06	09/28/06
Lab ID :	KLF06092756-01A	TPH-E (Oil)	99	+	50 mg/Kg	09/25/06	09/28/06
		TPH-P (Purgeable)	ND	O	4.0 mg/Kg	09/25/06	09/28/06
		Benzene	ND	O	20 µg/Kg	09/25/06	09/28/06
		Toluene	ND	O	20 µg/Kg	09/25/06	09/28/06
		Ethylbenzene	ND	O	20 µg/Kg	09/25/06	09/28/06
		m,p-Xylene	ND	O	20 µg/Kg	09/25/06	09/28/06
		o-Xylene	ND	O	20 µg/Kg	09/25/06	09/28/06
Client ID :	**B-1 4-5ft.**	TPH-E (Diesel)	15	*	5.0 mg/Kg	09/25/06	09/28/06
Lab ID :	KLF06092756-02A	TPH-E (Oil)	56	+	10 mg/Kg	09/25/06	09/28/06
		TPH-P (Purgeable)	ND	O	4.0 mg/Kg	09/25/06	09/28/06
		Benzene	ND	O	20 µg/Kg	09/25/06	09/28/06
		Toluene	ND	O	20 µg/Kg	09/25/06	09/28/06
		Ethylbenzene	ND	O	20 µg/Kg	09/25/06	09/28/06
		m,p-Xylene	ND	O	20 µg/Kg	09/25/06	09/28/06
		o-Xylene	ND	O	20 µg/Kg	09/25/06	09/28/06
Client ID :	**B-1 9-10ft.**	TPH-E (Diesel)	ND		5.0 mg/Kg	09/25/06	09/28/06
Lab ID :	KLF06092756-03A	TPH-E (Oil)	ND		10 mg/Kg	09/25/06	09/28/06
		TPH-P (Purgeable)	ND	O	4.0 mg/Kg	09/25/06	09/28/06
		Benzene	ND	O	20 µg/Kg	09/25/06	09/28/06
		Toluene	ND	O	20 µg/Kg	09/25/06	09/28/06
		Ethylbenzene	ND	O	20 µg/Kg	09/25/06	09/28/06
		m,p-Xylene	ND	O	20 µg/Kg	09/25/06	09/28/06
		o-Xylene	ND	O	20 µg/Kg	09/25/06	09/28/06
Client ID :	**B-2 1-2ft.**	TPH-E (Diesel)	29	*	5.0 mg/Kg	09/25/06	09/28/06
Lab ID :	KLF06092756-04A	TPH-E (Oil)	200	+	50 mg/Kg	09/25/06	09/28/06
		TPH-P (Purgeable)	ND	O	4.0 mg/Kg	09/25/06	09/28/06
		Benzene	ND	O	20 µg/Kg	09/25/06	09/28/06
		Toluene	ND	O	20 µg/Kg	09/25/06	09/28/06
		Ethylbenzene	ND	O	20 µg/Kg	09/25/06	09/28/06
		m,p-Xylene	ND	O	20 µg/Kg	09/25/06	09/28/06
		o-Xylene	ND	O	20 µg/Kg	09/25/06	09/28/06
Client ID :	**B-2 4-5ft.**	TPH-E (Diesel)	ND		5.0 mg/Kg	09/25/06	09/28/06
Lab ID :	KLF06092756-05A	TPH-E (Oil)	ND		10 mg/Kg	09/25/06	09/28/06
		TPH-P (Purgeable)	ND	O	2.0 mg/Kg	09/25/06	09/28/06
		Benzene	ND	O	10 µg/Kg	09/25/06	09/28/06
		Toluene	ND	O	10 µg/Kg	09/25/06	09/28/06
		Ethylbenzene	ND	O	10 µg/Kg	09/25/06	09/28/06
		m,p-Xylene	ND	O	10 µg/Kg	09/25/06	09/28/06
		o-Xylene	ND	O	10 µg/Kg	09/25/06	09/28/06

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Client ID :	**B-2 9-10ft.**	TPH-E (Diesel)	ND		5.0 mg/Kg	09/25/06	09/28/06
Lab ID :	KLF06092756-06A	TPH-E (Oil)	ND		10 mg/Kg	09/25/06	09/28/06
		TPH-P (Purgeable)	ND	O	2.0 mg/Kg	09/25/06	09/28/06
		Benzene	ND	O	10 µg/Kg	09/25/06	09/28/06
		Toluene	ND	O	10 µg/Kg	09/25/06	09/28/06
		Ethylbenzene	ND	O	10 µg/Kg	09/25/06	09/28/06
		m,p-Xylene	ND	O	10 µg/Kg	09/25/06	09/28/06
		o-Xylene	ND	O	10 µg/Kg	09/25/06	09/28/06
Client ID :	**B-3 1-2ft.**	TPH-E (Diesel)	ND		5.0 mg/Kg	09/25/06	09/28/06
Lab ID :	KLF06092756-07A	TPH-E (Oil)	16	+	10 mg/Kg	09/25/06	09/28/06
		TPH-P (Purgeable)	ND	O	2.0 mg/Kg	09/25/06	09/28/06
		Benzene	ND	O	10 µg/Kg	09/25/06	09/28/06
		Toluene	ND	O	10 µg/Kg	09/25/06	09/28/06
		Ethylbenzene	ND	O	10 µg/Kg	09/25/06	09/28/06
		m,p-Xylene	ND	O	10 µg/Kg	09/25/06	09/28/06
		o-Xylene	ND	O	10 µg/Kg	09/25/06	09/28/06
Client ID :	**B-3 4-5ft.**	TPH-E (Diesel)	ND		5.0 mg/Kg	09/25/06	09/28/06
Lab ID :	KLF06092756-08A	TPH-E (Oil)	ND		10 mg/Kg	09/25/06	09/28/06
		TPH-P (Purgeable)	ND		1.0 mg/Kg	09/25/06	09/28/06
		Benzene	ND		5.0 µg/Kg	09/25/06	09/28/06
		Toluene	ND		5.0 µg/Kg	09/25/06	09/28/06
		Ethylbenzene	ND		5.0 µg/Kg	09/25/06	09/28/06
		m,p-Xylene	ND		5.0 µg/Kg	09/25/06	09/28/06
		o-Xylene	ND		5.0 µg/Kg	09/25/06	09/28/06
Client ID :	**B-3 9-10ft.**	TPH-E (Diesel)	ND		5.0 mg/Kg	09/25/06	09/28/06
Lab ID :	KLF06092756-09A	TPH-E (Oil)	ND		10 mg/Kg	09/25/06	09/28/06
		TPH-P (Purgeable)	ND	O	2.0 mg/Kg	09/25/06	09/28/06
		Benzene	ND	O	10 µg/Kg	09/25/06	09/28/06
		Toluene	ND	O	10 µg/Kg	09/25/06	09/28/06
		Ethylbenzene	ND	O	10 µg/Kg	09/25/06	09/28/06
		m,p-Xylene	ND	O	10 µg/Kg	09/25/06	09/28/06
		o-Xylene	ND	O	10 µg/Kg	09/25/06	09/28/06
Client ID :	**B-4 1-2ft.**	TPH-E (Diesel)	10	*	5.0 mg/Kg	09/25/06	09/28/06
Lab ID :	KLF06092756-10A	TPH-E (Oil)	63	+	10 mg/Kg	09/25/06	09/28/06
		TPH-P (Purgeable)	ND	O	2.0 mg/Kg	09/25/06	09/28/06
		Benzene	ND	O	10 µg/Kg	09/25/06	09/28/06
		Toluene	ND	O	10 µg/Kg	09/25/06	09/28/06
		Ethylbenzene	ND	O	10 µg/Kg	09/25/06	09/28/06
		m,p-Xylene	ND	O	10 µg/Kg	09/25/06	09/28/06
		o-Xylene	ND	O	10 µg/Kg	09/25/06	09/28/06
Client ID :	**B-4 4-5ft.**	TPH-E (Diesel)	ND		5.0 mg/Kg	09/25/06	09/28/06
Lab ID :	KLF06092756-11A	TPH-E (Oil)	ND		10 mg/Kg	09/25/06	09/28/06
		TPH-P (Purgeable)	ND	O	2.0 mg/Kg	09/25/06	09/29/06
		Benzene	ND	O	10 µg/Kg	09/25/06	09/29/06
		Toluene	ND	O	10 µg/Kg	09/25/06	09/29/06
		Ethylbenzene	ND	O	10 µg/Kg	09/25/06	09/29/06
		m,p-Xylene	ND	O	10 µg/Kg	09/25/06	09/29/06
		o-Xylene	ND	O	10 µg/Kg	09/25/06	09/29/06
Client ID :	**B-4 8-9ft.**	TPH-E (Diesel)	ND		5.0 mg/Kg	09/25/06	09/29/06
Lab ID :	KLF06092756-12A	TPH-E (Oil)	ND		10 mg/Kg	09/25/06	09/29/06
		TPH-P (Purgeable)	ND	O	2.0 mg/Kg	09/25/06	09/29/06
		Benzene	ND	O	10 µg/Kg	09/25/06	09/29/06
		Toluene	ND	O	10 µg/Kg	09/25/06	09/29/06
		Ethylbenzene	ND	O	10 µg/Kg	09/25/06	09/29/06
		m,p-Xylene	ND	O	10 µg/Kg	09/25/06	09/29/06
		o-Xylene	ND	O	10 µg/Kg	09/25/06	09/29/06

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Client ID :	**B-5 1-2ft.**	TPH-E (Diesel)	ND		5.0 mg/Kg	09/25/06	09/29/06
Lab ID :	KLF06092756-13A	TPH-E (Oil)	ND		10 mg/Kg	09/25/06	09/29/06
		TPH-P (Purgeable)	ND		1.0 mg/Kg	09/25/06	09/29/06
		Benzene	ND		5.0 µg/Kg	09/25/06	09/29/06
		Toluene	ND		5.0 µg/Kg	09/25/06	09/29/06
		Ethylbenzene	ND		5.0 µg/Kg	09/25/06	09/29/06
		m,p-Xylene	ND		5.0 µg/Kg	09/25/06	09/29/06
		o-Xylene	ND		5.0 µg/Kg	09/25/06	09/29/06
Client ID :	**B-5 5-6ft.**	TPH-E (Diesel)	ND		5.0 mg/Kg	09/25/06	09/29/06
Lab ID :	KLF06092756-14A	TPH-E (Oil)	ND		10 mg/Kg	09/25/06	09/29/06
		TPH-P (Purgeable)	ND	O	2.0 mg/Kg	09/25/06	09/29/06
		Benzene	ND	O	10 µg/Kg	09/25/06	09/29/06
		Toluene	ND	O	10 µg/Kg	09/25/06	09/29/06
		Ethylbenzene	ND	O	10 µg/Kg	09/25/06	09/29/06
		m,p-Xylene	ND	O	10 µg/Kg	09/25/06	09/29/06
		o-Xylene	ND	O	10 µg/Kg	09/25/06	09/29/06
Client ID :	**B-5 9-10ft.**	TPH-E (Diesel)	ND		5.0 mg/Kg	09/25/06	09/29/06
Lab ID :	KLF06092756-15A	TPH-E (Oil)	ND		10 mg/Kg	09/25/06	09/29/06
		TPH-P (Purgeable)	ND		1.0 mg/Kg	09/25/06	09/29/06
		Benzene	ND		5.0 µg/Kg	09/25/06	09/29/06
		Toluene	ND		5.0 µg/Kg	09/25/06	09/29/06
		Ethylbenzene	ND		5.0 µg/Kg	09/25/06	09/29/06
		m,p-Xylene	ND		5.0 µg/Kg	09/25/06	09/29/06
		o-Xylene	ND		5.0 µg/Kg	09/25/06	09/29/06
Client ID :	**B-6 2-4ft.**	TPH-E (Diesel)	ND		5.0 mg/Kg	09/25/06	09/29/06
Lab ID :	KLF06092756-16A	TPH-E (Oil)	ND		10 mg/Kg	09/25/06	09/29/06
		TPH-P (Purgeable)	ND		1.0 mg/Kg	09/25/06	09/29/06
		Benzene	ND		5.0 µg/Kg	09/25/06	09/29/06
		Toluene	ND		5.0 µg/Kg	09/25/06	09/29/06
		Ethylbenzene	ND		5.0 µg/Kg	09/25/06	09/29/06
		m,p-Xylene	ND		5.0 µg/Kg	09/25/06	09/29/06
		o-Xylene	ND		5.0 µg/Kg	09/25/06	09/29/06
Client ID :	**B-6 5-6ft.**	TPH-E (Diesel)	ND		5.0 mg/Kg	09/25/06	09/29/06
Lab ID :	KLF06092756-17A	TPH-E (Oil)	ND		10 mg/Kg	09/25/06	09/29/06
		TPH-P (Purgeable)	ND		1.0 mg/Kg	09/25/06	09/29/06
		Benzene	ND		5.0 µg/Kg	09/25/06	09/29/06
		Toluene	ND		5.0 µg/Kg	09/25/06	09/29/06
		Ethylbenzene	ND		5.0 µg/Kg	09/25/06	09/29/06
		m,p-Xylene	ND		5.0 µg/Kg	09/25/06	09/29/06
		o-Xylene	ND		5.0 µg/Kg	09/25/06	09/29/06
Client ID :	**B-6 8-9ft.**	TPH-E (Diesel)	ND		5.0 mg/Kg	09/25/06	09/29/06
Lab ID :	KLF06092756-18A	TPH-E (Oil)	ND		10 mg/Kg	09/25/06	09/29/06
		TPH-P (Purgeable)	340		25 mg/Kg	09/25/06	09/30/06
		Benzene	ND	V	130 µg/Kg	09/25/06	09/30/06
		Toluene	ND	V	130 µg/Kg	09/25/06	09/30/06
		Ethylbenzene	800		130 µg/Kg	09/25/06	09/30/06
		m,p-Xylene	2,600		130 µg/Kg	09/25/06	09/30/06
		o-Xylene	190		130 µg/Kg	09/25/06	09/30/06
Client ID :	**B-7 1-2ft.**	TPH-E (Diesel)	ND		5.0 mg/Kg	09/25/06	09/29/06
Lab ID :	KLF06092756-19A	TPH-E (Oil)	ND		10 mg/Kg	09/25/06	09/29/06
		TPH-P (Purgeable)	ND		1.0 mg/Kg	09/25/06	09/29/06
		Benzene	ND		5.0 µg/Kg	09/25/06	09/29/06
		Toluene	ND		5.0 µg/Kg	09/25/06	09/29/06
		Ethylbenzene	ND		5.0 µg/Kg	09/25/06	09/29/06
		m,p-Xylene	ND		5.0 µg/Kg	09/25/06	09/29/06
		o-Xylene	ND		5.0 µg/Kg	09/25/06	09/29/06

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Client ID :	**B-7 6-7ft.**	TPH-E (Diesel)	6.0	C	5.0 mg/Kg	09/25/06	09/29/06
Lab ID :	KLF06092756-20A	TPH-E (Oil)	ND		10 mg/Kg	09/25/06	09/29/06
		TPH-P (Purgeable)	ND	O	2.0 mg/Kg	09/25/06	09/29/06
		Benzene	ND	O	10 µg/Kg	09/25/06	09/29/06
		Toluene	ND	O	10 µg/Kg	09/25/06	09/29/06
		Ethylbenzene	ND	O	10 µg/Kg	09/25/06	09/29/06
		m,p-Xylene	ND	O	10 µg/Kg	09/25/06	09/29/06
		o-Xylene	ND	O	10 µg/Kg	09/25/06	09/29/06
Client ID :	**B-7 9-10ft.**	TPH-E (Diesel)	ND		5.0 mg/Kg	09/25/06	09/28/06
Lab ID :	KLF06092756-21A	TPH-E (Oil)	ND		10 mg/Kg	09/25/06	09/28/06
		TPH-P (Purgeable)	ND	O	2.0 mg/Kg	09/25/06	09/29/06
		Benzene	ND	O	10 µg/Kg	09/25/06	09/29/06
		Toluene	ND	O	10 µg/Kg	09/25/06	09/29/06
		Ethylbenzene	ND	O	10 µg/Kg	09/25/06	09/29/06
		m,p-Xylene	ND	O	10 µg/Kg	09/25/06	09/29/06
		o-Xylene	ND	O	10 µg/Kg	09/25/06	09/29/06
Client ID :	**B-8 1-2ft.**	TPH-E (Diesel)	8.7	*	5.0 mg/Kg	09/25/06	09/28/06
Lab ID :	KLF06092756-22A	TPH-E (Oil)	40	+	10 mg/Kg	09/25/06	09/28/06
		TPH-P (Purgeable)	ND	O	2.0 mg/Kg	09/25/06	09/29/06
		Benzene	ND	O	10 µg/Kg	09/25/06	09/29/06
		Toluene	ND	O	10 µg/Kg	09/25/06	09/29/06
		Ethylbenzene	ND	O	10 µg/Kg	09/25/06	09/29/06
		m,p-Xylene	ND	O	10 µg/Kg	09/25/06	09/29/06
		o-Xylene	ND	O	10 µg/Kg	09/25/06	09/29/06
Client ID :	**B-8 4-5ft.**	TPH-E (Diesel)	ND		5.0 mg/Kg	09/25/06	09/28/06
Lab ID :	KLF06092756-23A	TPH-E (Oil)	18	+	10 mg/Kg	09/25/06	09/28/06
		TPH-P (Purgeable)	ND	O	2.0 mg/Kg	09/25/06	09/29/06
		Benzene	ND	O	10 µg/Kg	09/25/06	09/29/06
		Toluene	ND	O	10 µg/Kg	09/25/06	09/29/06
		Ethylbenzene	ND	O	10 µg/Kg	09/25/06	09/29/06
		m,p-Xylene	ND	O	10 µg/Kg	09/25/06	09/29/06
		o-Xylene	ND	O	10 µg/Kg	09/25/06	09/29/06
Client ID :	**B-9 2-3ft.**	TPH-E (Diesel)	31	*	25 mg/Kg	09/25/06	09/29/06
Lab ID :	KLF06092756-24A	TPH-E (Oil)	330	+	50 mg/Kg	09/25/06	09/29/06
		TPH-P (Purgeable)	ND	O	2.0 mg/Kg	09/25/06	09/29/06
		Benzene	ND	O	10 µg/Kg	09/25/06	09/29/06
		Toluene	ND	O	10 µg/Kg	09/25/06	09/29/06
		Ethylbenzene	ND	O	10 µg/Kg	09/25/06	09/29/06
		m,p-Xylene	ND	O	10 µg/Kg	09/25/06	09/29/06
		o-Xylene	ND	O	10 µg/Kg	09/25/06	09/29/06
Client ID :	**B-9 4-5ft.**	TPH-E (Diesel)	17	*	5.0 mg/Kg	09/25/06	09/28/06
Lab ID :	KLF06092756-25A	TPH-E (Oil)	140	+	10 mg/Kg	09/25/06	09/28/06
		TPH-P (Purgeable)	ND	O	2.0 mg/Kg	09/25/06	09/29/06
		Benzene	ND	O	10 µg/Kg	09/25/06	09/29/06
		Toluene	ND	O	10 µg/Kg	09/25/06	09/29/06
		Ethylbenzene	ND	O	10 µg/Kg	09/25/06	09/29/06
		m,p-Xylene	ND	O	10 µg/Kg	09/25/06	09/29/06
		o-Xylene	ND	O	10 µg/Kg	09/25/06	09/29/06
Client ID :	**B-9 9-10ft.**	TPH-E (Diesel)	ND		5.0 mg/Kg	09/25/06	10/04/06
Lab ID :	KLF06092756-26A	TPH-E (Oil)	ND		10 mg/Kg	09/25/06	10/04/06
		TPH-P (Purgeable)	ND		1.0 mg/Kg	09/25/06	09/29/06
		Benzene	ND		5.0 µg/Kg	09/25/06	09/29/06
		Toluene	ND		5.0 µg/Kg	09/25/06	09/29/06
		Ethylbenzene	ND		5.0 µg/Kg	09/25/06	09/29/06
		m,p-Xylene	ND		5.0 µg/Kg	09/25/06	09/29/06
		o-Xylene	ND		5.0 µg/Kg	09/25/06	09/29/06

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Client ID :	**B-10 2-3ft.**	TPH-E (Diesel)	ND		5.0 mg/Kg	09/25/06	09/28/06
Lab ID :	KLF06092756-27A	TPH-E (Oil)	32	+	10 mg/Kg	09/25/06	09/28/06
		TPH-P (Purgeable)	ND		1.0 mg/Kg	09/25/06	09/29/06
		Benzene	ND		5.0 µg/Kg	09/25/06	09/29/06
		Toluene	ND		5.0 µg/Kg	09/25/06	09/29/06
		Ethylbenzene	ND		5.0 µg/Kg	09/25/06	09/29/06
		m,p-Xylene	ND		5.0 µg/Kg	09/25/06	09/29/06
		o-Xylene	ND		5.0 µg/Kg	09/25/06	09/29/06
Client ID :	**B-10 4-5ft.**	TPH-E (Diesel)	120	*	50 mg/Kg	09/25/06	09/29/06
Lab ID :	KLF06092756-28A	TPH-E (Oil)	1,300	+	100 mg/Kg	09/25/06	09/29/06
		TPH-P (Purgeable)	ND		1.0 mg/Kg	09/25/06	09/29/06
		Benzene	ND		5.0 µg/Kg	09/25/06	09/29/06
		Toluene	ND		5.0 µg/Kg	09/25/06	09/29/06
		Ethylbenzene	5.1		5.0 µg/Kg	09/25/06	09/29/06
		m,p-Xylene	16		5.0 µg/Kg	09/25/06	09/29/06
		o-Xylene	ND		5.0 µg/Kg	09/25/06	09/29/06
Client ID :	**B-10 7-9ft.**	TPH-E (Diesel)	ND		5.0 mg/Kg	09/25/06	09/28/06
Lab ID :	KLF06092756-29A	TPH-E (Oil)	34	+	10 mg/Kg	09/25/06	09/28/06
		TPH-P (Purgeable)	ND		1.0 mg/Kg	09/25/06	09/29/06
		Benzene	ND		5.0 µg/Kg	09/25/06	09/29/06
		Toluene	ND		5.0 µg/Kg	09/25/06	09/29/06
		Ethylbenzene	ND		5.0 µg/Kg	09/25/06	09/29/06
		m,p-Xylene	ND		5.0 µg/Kg	09/25/06	09/29/06
		o-Xylene	ND		5.0 µg/Kg	09/25/06	09/29/06
Client ID :	**B-13 2-3ft.**	TPH-E (Diesel)	270	*	500 mg/Kg	09/25/06	09/29/06
Lab ID :	KLF06092756-30A	TPH-E (Oil)	4,100	+	1,000 mg/Kg	09/25/06	09/29/06
		TPH-P (Purgeable)	ND	O	2.0 mg/Kg	09/25/06	09/29/06
		Benzene	ND	O	10 µg/Kg	09/25/06	09/29/06
		Toluene	ND	O	10 µg/Kg	09/25/06	09/29/06
		Ethylbenzene	ND	O	10 µg/Kg	09/25/06	09/29/06
		m,p-Xylene	ND	O	10 µg/Kg	09/25/06	09/29/06
		o-Xylene	ND	O	10 µg/Kg	09/25/06	09/29/06
Client ID :	**B-13 4-5ft.**	TPH-E (Diesel)	ND		5.0 mg/Kg	09/25/06	09/28/06
Lab ID :	KLF06092756-31A	TPH-E (Oil)	ND		10 mg/Kg	09/25/06	09/28/06
		TPH-P (Purgeable)	ND		1.0 mg/Kg	09/25/06	09/30/06
		Benzene	ND		5.0 µg/Kg	.09/25/06	09/30/06
		Toluene	ND		5.0 µg/Kg	09/25/06	09/30/06
		Ethylbenzene	ND		5.0 µg/Kg	09/25/06	09/30/06
		m,p-Xylene	ND		5.0 µg/Kg	09/25/06	09/30/06
		o-Xylene	ND		5.0 µg/Kg	09/25/06	09/30/06
Client ID :	**B-13 9-10ft.**	TPH-E (Diesel)	ND		5.0 mg/Kg	09/25/06	09/28/06
Lab ID :	KLF06092756-32A	TPH-E (Oil)	ND		10 mg/Kg	09/25/06	09/28/06
		TPH-P (Purgeable)	ND		1.0 mg/Kg	09/25/06	09/30/06
		Benzene	ND		5.0 µg/Kg	09/25/06	09/30/06
		Toluene	ND		5.0 µg/Kg	09/25/06	09/30/06
		Ethylbenzene	ND		5.0 µg/Kg	09/25/06	09/30/06
		m,p-Xylene	ND		5.0 µg/Kg	09/25/06	09/30/06
		o-Xylene	ND		5.0 µg/Kg	09/25/06	09/30/06
Client ID :	**DUP1**	TPH-E (Diesel)	ND		5.0 mg/Kg	09/25/06	09/28/06
Lab ID :	KLF06092756-33A	TPH-E (Oil)	ND		10 mg/Kg	09/25/06	09/28/06
		TPH-P (Purgeable)	ND		1.0 mg/Kg	09/25/06	09/30/06
		Benzene	ND		5.0 µg/Kg	09/25/06	09/30/06
		Toluene	ND		5.0 µg/Kg	09/25/06	09/30/06
		Ethylbenzene	ND		5.0 µg/Kg	09/25/06	09/30/06
		m,p-Xylene	ND		5.0 µg/Kg	09/25/06	09/30/06
		o-Xylene	ND		5.0 µg/Kg	09/25/06	09/30/06

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Client ID :	**DUP2**	TPH-E (Diesel)	ND		5.0 mg/Kg	09/25/06	09/29/06
Lab ID :	KLF06092756-34A	TPH-E (Oil)	ND		10 mg/Kg	09/25/06	09/29/06
		TPH-P (Purgeable)	ND		1.0 mg/Kg	09/25/06	09/30/06
		Benzene	ND		5.0 µg/Kg	09/25/06	09/30/06
		Toluene	ND		5.0 µg/Kg	09/25/06	09/30/06
		Ethylbenzene	ND		5.0 µg/Kg	09/25/06	09/30/06
		m,p-Xylene	ND		5.0 µg/Kg	09/25/06	09/30/06
		o-Xylene	ND		5.0 µg/Kg	09/25/06	09/30/06
Client ID :	**DUP3**	TPH-E (Diesel)	ND		5.0 mg/Kg	09/25/06	09/29/06
Lab ID :	KLF06092756-35A	TPH-E (Oil)	ND		10 mg/Kg	09/25/06	09/29/06
		TPH-P (Purgeable)	ND	O	2.0 mg/Kg	09/25/06	09/30/06
		Benzene	ND	O	10 µg/Kg	09/25/06	09/30/06
		Toluene	ND	O	10 µg/Kg	09/25/06	09/30/06
		Ethylbenzene	ND	O	10 µg/Kg	09/25/06	09/30/06
		m,p-Xylene	ND	O	10 µg/Kg	09/25/06	09/30/06
		o-Xylene	ND	O	10 µg/Kg	09/25/06	09/30/06
Client ID :	**B-11 1-2ft.**	TPH-E (Diesel)	76	*	50 mg/Kg	09/26/06	09/29/06
Lab ID :	KLF06092756-36A	TPH-E (Oil)	590	+	100 mg/Kg	09/26/06	09/29/06
		TPH-P (Purgeable)	ND	O	2.0 mg/Kg	09/26/06	09/30/06
Client ID :	**B-11 4-5ft.**	TPH-E (Diesel)	700	*	500 mg/Kg	09/26/06	09/29/06
Lab ID :	KLF06092756-37A	TPH-E (Oil)	4,700	+	1,000 mg/Kg	09/26/06	09/29/06
		TPH-P (Purgeable)	ND	O	4.0 mg/Kg	09/26/06	09/30/06
Client ID :	**B-11 9-10ft.**	TPH-E (Diesel)	ND		5.0 mg/Kg	09/26/06	09/29/06
Lab ID :	KLF06092756-38A	TPH-E (Oil)	ND		10 mg/Kg	09/26/06	09/29/06
		TPH-P (Purgeable)	ND	O	2.0 mg/Kg	09/26/06	09/30/06
Client ID :	**DUP5**	TPH-E (Diesel)	ND		5.0 mg/Kg	09/26/06	09/29/06
Lab ID :	KLF06092756-39A	TPH-E (Oil)	14	+	10 mg/Kg	09/26/06	09/29/06
		TPH-P (Purgeable)	ND	O	2.0 mg/Kg	09/26/06	09/30/06
Client ID :	**B-12 1-2ft.**	TPH-E (Diesel)	26	*	5.0 mg/Kg	09/26/06	09/29/06
Lab ID :	KLF06092756-40A	TPH-E (Oil)	160	+	10 mg/Kg	09/26/06	09/29/06
		TPH-P (Purgeable)	ND	O	2.0 mg/Kg	09/26/06	09/30/06
		Benzene	ND	O	10 µg/Kg	09/26/06	09/30/06
		Toluene	ND	O	10 µg/Kg	09/26/06	09/30/06
		Ethylbenzene	ND	O	10 µg/Kg	09/26/06	09/30/06
		m,p-Xylene	ND	O	10 µg/Kg	09/26/06	09/30/06
		o-Xylene	ND	O	10 µg/Kg	09/26/06	09/30/06
Client ID :	**B-12 4-5ft.**	TPH-E (Diesel)	36	*	5.0 mg/Kg	09/26/06	09/29/06
Lab ID :	KLF06092756-41A	TPH-E (Oil)	200	+	50 mg/Kg	09/26/06	09/29/06
		TPH-P (Purgeable)	ND	O	2.0 mg/Kg	09/26/06	09/30/06
		Benzene	ND	O	10 µg/Kg	09/26/06	09/30/06
		Toluene	ND	O	10 µg/Kg	09/26/06	09/30/06
		Ethylbenzene	ND	O	10 µg/Kg	09/26/06	09/30/06
		m,p-Xylene	ND	O	10 µg/Kg	09/26/06	09/30/06
		o-Xylene	ND	O	10 µg/Kg	09/26/06	09/30/06
Client ID :	**B-12 9-10ft.**	TPH-E (Diesel)	ND		5.0 mg/Kg	09/26/06	09/29/06
Lab ID :	KLF06092756-42A	TPH-E (Oil)	ND		10 mg/Kg	09/26/06	09/29/06
		TPH-P (Purgeable)	ND		1.0 mg/Kg	09/26/06	09/30/06
		Benzene	ND		5.0 µg/Kg	09/26/06	09/30/06
		Toluene	ND		5.0 µg/Kg	09/26/06	09/30/06
		Ethylbenzene	ND		5.0 µg/Kg	09/26/06	09/30/06
		m,p-Xylene	ND		5.0 µg/Kg	09/26/06	09/30/06
		o-Xylene	ND		5.0 µg/Kg	09/26/06	09/30/06

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Client ID :	**B-14 1-2ft.**	TPH-E (Diesel)	16	*	5.0 mg/Kg	09/26/06	09/29/06
Lab ID :	KLF06092756-43A	TPH-E (Oil)	130	+	10 mg/Kg	09/26/06	09/29/06
		TPH-P (Purgeable)	ND	O	4.0 mg/Kg	09/26/06	09/30/06
		Benzene	ND	O	20 µg/Kg	09/26/06	09/30/06
		Toluene	ND	O	20 µg/Kg	09/26/06	09/30/06
		Ethylbenzene	ND	O	20 µg/Kg	09/26/06	09/30/06
		m,p-Xylene	ND	O	20 µg/Kg	09/26/06	09/30/06
		o-Xylene	ND	O	20 µg/Kg	09/26/06	09/30/06
Client ID :	**B-14 3-4ft.**	TPH-E (Diesel)	ND		5.0 mg/Kg	09/26/06	09/29/06
Lab ID :	KLF06092756-44A	TPH-E (Oil)	ND		10 mg/Kg	09/26/06	09/29/06
		TPH-P (Purgeable)	1.5		1.0 mg/Kg	09/26/06	09/30/06
		Benzene	ND		5.0 µg/Kg	09/26/06	09/30/06
		Toluene	ND		5.0 µg/Kg	09/26/06	09/30/06
		Ethylbenzene	ND		5.0 µg/Kg	09/26/06	09/30/06
		m,p-Xylene	ND		5.0 µg/Kg	09/26/06	09/30/06
		o-Xylene	ND		5.0 µg/Kg	09/26/06	09/30/06
Client ID :	**B-14 9-10ft.**	TPH-E (Diesel)	ND		5.0 mg/Kg	09/26/06	09/29/06
Lab ID :	KLF06092756-45A	TPH-E (Oil)	ND		10 mg/Kg	09/26/06	09/29/06
		TPH-P (Purgeable)	ND		1.0 mg/Kg	09/26/06	09/30/06
		Benzene	ND		5.0 µg/Kg	09/26/06	09/30/06
		Toluene	ND		5.0 µg/Kg	09/26/06	09/30/06
		Ethylbenzene	ND		5.0 µg/Kg	09/26/06	09/30/06
		m,p-Xylene	ND		5.0 µg/Kg	09/26/06	09/30/06
		o-Xylene	ND		5.0 µg/Kg	09/26/06	09/30/06
Client ID :	**B-15 1-2ft.**	TPH-E (Diesel)	100	*	50 mg/Kg	09/26/06	10/03/06
Lab ID :	KLF06092756-46A	TPH-E (Oil)	660	+	100 mg/Kg	09/26/06	10/03/06
		TPH-P (Purgeable)	ND	O	2.0 mg/Kg	09/26/06	09/30/06
		Benzene	ND	O	10 µg/Kg	09/26/06	09/30/06
		Toluene	ND	O	10 µg/Kg	09/26/06	09/30/06
		Ethylbenzene	11		10 µg/Kg	09/26/06	09/30/06
		m,p-Xylene	34		10 µg/Kg	09/26/06	09/30/06
		o-Xylene	ND	O	10 µg/Kg	09/26/06	09/30/06
Client ID :	**B-15 4-5ft.**	TPH-E (Diesel)	370	*	100 mg/Kg	09/26/06	09/29/06
Lab ID :	KLF06092756-47A	TPH-E (Oil)	2,900	+	1,000 mg/Kg	09/26/06	09/29/06
		TPH-P (Purgeable)	ND	O	4.0 mg/Kg	09/26/06	09/30/06
		Benzene	ND	O	20 µg/Kg	09/26/06	09/30/06
		Toluene	ND	O	20 µg/Kg	09/26/06	09/30/06
		Ethylbenzene	ND	O	20 µg/Kg	09/26/06	09/30/06
		m,p-Xylene	52		20 µg/Kg	09/26/06	09/30/06
		o-Xylene	ND	O	20 µg/Kg	09/26/06	09/30/06
Client ID :	**B-15 9-10ft.**	TPH-E (Diesel)	ND		5.0 mg/Kg	09/26/06	09/29/06
Lab ID :	KLF06092756-48A	TPH-E (Oil)	ND		10 mg/Kg	09/26/06	09/29/06
		TPH-P (Purgeable)	ND		1.0 mg/Kg	09/26/06	09/30/06
		Benzene	ND		5.0 µg/Kg	09/26/06	09/30/06
		Toluene	ND		5.0 µg/Kg	09/26/06	09/30/06
		Ethylbenzene	ND		5.0 µg/Kg	09/26/06	09/30/06
		m,p-Xylene	ND		5.0 µg/Kg	09/26/06	09/30/06
		o-Xylene	ND		5.0 µg/Kg	09/26/06	09/30/06
Client ID :	**DUP4**	TPH-E (Diesel)	200	*	20 mg/Kg	09/27/06	09/29/06
Lab ID :	KLF06092756-49A	TPH-E (Oil)	1,300	+	200 mg/Kg	09/27/06	09/29/06
		TPH-P (Purgeable)	ND	O	2.0 mg/Kg	09/27/06	09/30/06
		Benzene	ND	O	10 µg/Kg	09/27/06	09/30/06
		Toluene	ND	O	10 µg/Kg	09/27/06	09/30/06
		Ethylbenzene	ND	O	10 µg/Kg	09/27/06	09/30/06
		m,p-Xylene	ND	O	10 µg/Kg	09/27/06	09/30/06
		o-Xylene	ND	O	10 µg/Kg	09/27/06	09/30/06

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*Note: Reported diesel concentration may include some undifferentiated heavier-end hydrocarbons.

+Note: Compounds outside the range of diesel have varying amounts of recovery.

C = Reported concentration includes additional compounds uncharacteristic of common fuels and lubricants.

O = Reporting Limits were increased due to sample foaming.

V = Reporting Limits were increased due to high concentrations of target analytes.

ND = Not Detected

Roger L. Scholl, Ph.D., Laboratory Director • • Randy Gardner, Laboratory Manager • • Walter Hinchman, Quality Assurance Officer
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10/5/06
Report Date

Alpha Analytical, Inc.

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ANALYTICAL REPORT

Kleinfelder
4835 Longley Lane
Reno, NV 89502
Job#: 74330.02

Attn: Dave Herzog
Phone: (775) 689-7800
Fax: (775) 689-7810

Alpha Analytical Number: KLF06092756-36A
Client I.D. Number: B-11 1-2ft.

Sampled: 09/26/06
Received: 09/27/06
Analyzed: 09/30/06

Volatile Organics by GC/MS
EPA Method SW8260B

	Compound	Concentration	Reporting Limit		Compound	Concentration	Reporting Limit
1	Chloromethane	ND	40 µg/Kg	26	Ethylbenzene	ND	10 µg/Kg
2	Vinyl chloride	ND	20 µg/Kg	27	m,p-Xylene	ND	10 µg/Kg
3	Chloroethane	ND	20 µg/Kg	28	Bromoform	ND	20 µg/Kg
4	Bromomethane	ND	80 µg/Kg	29	o-Xylene	ND	10 µg/Kg
5	Trichlorofluoromethane	ND	20 µg/Kg	30	1,1,2,2-Tetrachloroethane	ND	20 µg/Kg
6	1,1-Dichloroethene	ND	20 µg/Kg	31	1,3-Dichlorobenzene	ND	20 µg/Kg
7	Dichloromethane	ND	80 µg/Kg	32	1,4-Dichlorobenzene	ND	20 µg/Kg
8	trans-1,2-Dichloroethene	ND	20 µg/Kg	33	1,2-Dichlorobenzene	ND	20 µg/Kg
9	1,1-Dichloroethane	ND	20 µg/Kg				
10	cis-1,2-Dichloroethene	ND	20 µg/Kg				
11	Chloroform	ND	20 µg/Kg				
12	1,2-Dichloroethane	ND	20 µg/Kg				
13	1,1,1-Trichloroethane	ND	20 µg/Kg				
14	Carbon tetrachloride	ND	20 µg/Kg				
15	Benzene	ND	10 µg/Kg				
16	1,2-Dichloropropane	ND	20 µg/Kg				
17	Trichloroethene	ND	20 µg/Kg				
18	Bromodichloromethane	ND	20 µg/Kg				
19	cis-1,3-Dichloropropene	ND	20 µg/Kg				
20	trans-1,3-Dichloropropene	ND	20 µg/Kg				
21	1,1,2-Trichloroethane	ND	20 µg/Kg				
22	Toluene	ND	10 µg/Kg				
23	Dibromochloromethane	ND	20 µg/Kg				
24	Tetrachloroethene	ND	20 µg/Kg				
25	Chlorobenzene	ND	20 µg/Kg				

Reporting Limits were increased due to sample foaming.

ND = Not Detected

Roger Scholl Randy Gardner Walter Hinchman

Roger L. Scholl, Ph.D, Laboratory Director • • Randy Gardner, Laboratory Manager • • Walter Hinchman, Quality Assurance Officer
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10/5/06
Report Date

Alpha Analytical, Inc.

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ANALYTICAL REPORT

Kleinfelder
4835 Longley Lane
Reno, NV 89502
Job#: 74330.02

Attn: Dave Herzog
Phone: (775) 689-7800
Fax: (775) 689-7810

Alpha Analytical Number: KLF06092756-37A
Client I.D. Number: B-11 4-5ft.

Sampled: 09/26/06
Received: 09/27/06
Analyzed: 09/30/06

Volatile Organics by GC/MS
EPA Method SW8260B

	Compound	Concentration	Reporting Limit		Compound	Concentration	Reporting Limit
1	Chloromethane	ND	80 µg/Kg	26	Ethylbenzene	ND	20 µg/Kg
2	Vinyl chloride	ND	40 µg/Kg	27	m,p-Xylene	ND	20 µg/Kg
3	Chloroethane	ND	40 µg/Kg	28	Bromoform	ND	40 µg/Kg
4	Bromomethane	ND	160 µg/Kg	29	o-Xylene	ND	20 µg/Kg
5	Trichlorofluoromethane	ND	40 µg/Kg	30	1,1,2,2-Tetrachloroethane	ND	40 µg/Kg
6	1,1-Dichloroethene	ND	40 µg/Kg	31	1,3-Dichlorobenzene	ND	40 µg/Kg
7	Dichloromethane	ND	160 µg/Kg	32	1,4-Dichlorobenzene	ND	40 µg/Kg
8	trans-1,2-Dichloroethene	ND	40 µg/Kg	33	1,2-Dichlorobenzene	ND	40 µg/Kg
9	1,1-Dichloroethane	ND	40 µg/Kg				
10	cis-1,2-Dichloroethene	ND	40 µg/Kg				
11	Chloroform	ND	40 µg/Kg				
12	1,2-Dichloroethane	ND	40 µg/Kg				
13	1,1,1-Trichloroethane	ND	40 µg/Kg				
14	Carbon tetrachloride	ND	40 µg/Kg				
15	Benzene	ND	20 µg/Kg				
16	1,2-Dichloropropane	ND	40 µg/Kg				
17	Trichloroethene	ND	40 µg/Kg				
18	Bromodichloromethane	ND	40 µg/Kg				
19	cis-1,3-Dichloropropene	ND	40 µg/Kg				
20	trans-1,3-Dichloropropene	ND	40 µg/Kg				
21	1,1,2-Trichloroethane	ND	40 µg/Kg				
22	Toluene	ND	20 µg/Kg				
23	Dibromochloromethane	ND	40 µg/Kg				
24	Tetrachloroethene	ND	40 µg/Kg				
25	Chlorobenzene	ND	40 µg/Kg				

Reporting Limits were increased due to sample foaming.

ND = Not Detected

Roger Scholl Randy Gardner Walter Hinchman

Roger L. Scholl, Ph.D., Laboratory Director • • Randy Gardner, Laboratory Manager • • Walter Hinchman, Quality Assurance Officer
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10/5/06
Report Date

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ANALYTICAL REPORT

Kleinfelder
4835 Longley Lane
Reno, NV 89502
Job#: 74330.02

Attn: Dave Herzog
Phone: (775) 689-7800
Fax: (775) 689-7810

Alpha Analytical Number: KLF06092756-38A
Client I.D. Number: B-11 9-10ft.

Sampled: 09/26/06
Received: 09/27/06
Analyzed: 09/30/06

Volatile Organics by GC/MS
EPA Method SW8260B

	Compound	Concentration	Reporting Limit		Compound	Concentration	Reporting Limit
1	Chloromethane	ND	40 µg/Kg	26	Ethylbenzene	ND	10 µg/Kg
2	Vinyl chloride	ND	20 µg/Kg	27	m,p-Xylene	ND	10 µg/Kg
3	Chloroethane	ND	20 µg/Kg	28	Bromoform	ND	20 µg/Kg
4	Bromomethane	ND	80 µg/Kg	29	o-Xylene	ND	10 µg/Kg
5	Trichlorofluoromethane	ND	20 µg/Kg	30	1,1,2,2-Tetrachloroethane	ND	20 µg/Kg
6	1,1-Dichloroethene	ND	20 µg/Kg	31	1,3-Dichlorobenzene	ND	20 µg/Kg
7	Dichloromethane	ND	80 µg/Kg	32	1,4-Dichlorobenzene	ND	20 µg/Kg
8	trans-1,2-Dichloroethene	ND	20 µg/Kg	33	1,2-Dichlorobenzene	ND	20 µg/Kg
9	1,1-Dichloroethane	ND	20 µg/Kg				
10	cis-1,2-Dichloroethene	ND	20 µg/Kg				
11	Chloroform	ND	20 µg/Kg				
12	1,2-Dichloroethane	ND	20 µg/Kg				
13	1,1,1-Trichloroethane	ND	20 µg/Kg				
14	Carbon tetrachloride	ND	20 µg/Kg				
15	Benzene	ND	10 µg/Kg				
16	1,2-Dichloropropane	ND	20 µg/Kg				
17	Trichloroethene	ND	20 µg/Kg				
18	Bromodichloromethane	ND	20 µg/Kg				
19	cis-1,3-Dichloropropene	ND	20 µg/Kg				
20	trans-1,3-Dichloropropene	ND	20 µg/Kg				
21	1,1,2-Trichloroethane	ND	20 µg/Kg				
22	Toluene	ND	10 µg/Kg				
23	Dibromochloromethane	ND	20 µg/Kg				
24	Tetrachloroethene	ND	20 µg/Kg				
25	Chlorobenzene	ND	20 µg/Kg				

Reporting Limits were increased due to sample foaming.

ND = Not Detected

Roger Scholl Randy Gardner Walter Hinchman

Roger L. Scholl, Ph.D., Laboratory Director • • Randy Gardner, Laboratory Manager • • Walter Hinchman, Quality Assurance Officer
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10/5/06
Report Date

Alpha Analytical, Inc.

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ANALYTICAL REPORT

Kleinfelder
4835 Longley Lane
Reno, NV 89502
Job#: 74330.02

Attn: Dave Herzog
Phone: (775) 689-7800
Fax: (775) 689-7810

Alpha Analytical Number: KLF06092756-39A
Client I.D. Number: DUP5

Sampled: 09/26/06
Received: 09/27/06
Analyzed: 09/30/06

Volatile Organics by GC/MS
EPA Method SW8260B

	Compound	Concentration	Reporting Limit		Compound	Concentration	Reporting Limit
1	Chloromethane	ND	40 µg/Kg	26	Ethylbenzene	ND	10 µg/Kg
2	Vinyl chloride	ND	20 µg/Kg	27	m,p-Xylene	ND	10 µg/Kg
3	Chloroethane	ND	20 µg/Kg	28	Bromoform	ND	20 µg/Kg
4	Bromomethane	ND	80 µg/Kg	29	o-Xylene	ND	10 µg/Kg
5	Trichlorofluoromethane	ND	20 µg/Kg	30	1,1,2,2-Tetrachloroethane	ND	20 µg/Kg
6	1,1-Dichloroethene	ND	20 µg/Kg	31	1,3-Dichlorobenzene	ND	20 µg/Kg
7	Dichloromethane	ND	80 µg/Kg	32	1,4-Dichlorobenzene	ND	20 µg/Kg
8	trans-1,2-Dichloroethene	ND	20 µg/Kg	33	1,2-Dichlorobenzene	ND	20 µg/Kg
9	1,1-Dichloroethane	ND	20 µg/Kg				
10	cis-1,2-Dichloroethene	ND	20 µg/Kg				
11	Chloroform	ND	20 µg/Kg				
12	1,2-Dichloroethane	ND	20 µg/Kg				
13	1,1,1-Trichloroethane	ND	20 µg/Kg				
14	Carbon tetrachloride	ND	20 µg/Kg				
15	Benzene	ND	10 µg/Kg				
16	1,2-Dichloropropane	ND	20 µg/Kg				
17	Trichloroethene	ND	20 µg/Kg				
18	Bromodichloromethane	ND	20 µg/Kg				
19	cis-1,3-Dichloropropene	ND	20 µg/Kg				
20	trans-1,3-Dichloropropene	ND	20 µg/Kg				
21	1,1,2-Trichloroethane	ND	20 µg/Kg				
22	Toluene	ND	10 µg/Kg				
23	Dibromochloromethane	ND	20 µg/Kg				
24	Tetrachloroethene	ND	20 µg/Kg				
25	Chlorobenzene	ND	20 µg/Kg				

Reporting Limits were increased due to sample foaming.

ND = Not Detected

Roger Scholl Randy Gardner Walter Hinchman

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10/5/06
Report Date

Alpha Analytical, Inc.

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Date: *27-Oct-06*

QC Summary Report

Work Order: 06092756

Method Blank

Type **MBLK** Test Code: **EPA Method SW6020 / SW6020A**

File ID: **102306.B\073AICB.D** Batch ID: **15913** Analysis Date: **10/23/2006 16:07**

Sample ID: **MB-15913** Units : **mg/Kg** Run ID: **ICP/MS_061023B** Prep Date: **10/21/2006**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LowLimit	HighLimit	RPDRefVal	%RPD(Limit)	Qual
Lead (Pb)	ND	1								

Laboratory Control Spike

Type **LCS** Test Code: **EPA Method SW6020 / SW6020A**

File ID: **102306.B\074ALCS.D** Batch ID: **15913** Analysis Date: **10/23/2006 16:12**

Sample ID: **LCS-15913** Units : **mg/Kg** Run ID: **ICP/MS_061023B** Prep Date: **10/21/2006**

Analyte	Result'	PQL	SpkVal	SpkRefVal	%REC	LowLimit	HighLimit	RPDRefVal	%RPD(Limit)	Qual
Lead (Pb)	22	1	25		88	82	122			

Sample Matrix Spike

Type **MS** Test Code: **EPA Method SW6020 / SW6020A**

File ID: **102306.B\087MSL.D** Batch ID: **15913** Analysis Date: **10/23/2006 17:15**

Sample ID: **06102022-07AMS** Units : **mg/Kg** Run ID: **ICP/MS_061023B** Prep Date: **10/21/2006**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LowLimit	HighLimit	RPDRefVal	%RPD(Limit)	Qual
Lead (Pb)	27.1	1	25	3.802	93	66	137			

Sample Matrix Spike Duplicate

Type **MSD** Test Code: **EPA Method SW6020 / SW6020A**

File ID: **102306.B\088MSDL.D** Batch ID: **15913** Analysis Date: **10/23/2006 17:19**

Sample ID: **06102022-07AMSD** Units : **mg/Kg** Run ID: **ICP/MS_061023B** Prep Date: **10/21/2006**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LowLimit	HighLimit	RPDRefVal	%RPD(Limit)	Qual
Lead (Pb)	27.7	1	25	3.802	96	66	137	27.07	2.3(22)	

Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

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Date: 27-Oct-06

QC Summary Report

Work Order: 06092756

Method Blank

Type **MBLK** Test Code: **EPA Method SW8260B**

File ID: **06092807.D** Batch ID: **MS15S5695A** Analysis Date: **09/28/2006 10:33**

Sample ID: **MBLK MS15S5695A** Units : **µg/Kg** Run ID: **MSD_15_060928A** Prep Date: **09/28/2006**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LowLimit	HighLimit	RPDRefVal	%RPD(Limit)	Qual
Chloromethane	ND	40								
Vinyl chloride	ND	20								
Chloroethane	ND	20								
Bromomethane	ND	40								
Trichlorofluoromethane	ND	20								
1,1-Dichloroethene	ND	20								
Dichloromethane	ND	40								
trans-1,2-Dichloroethene	ND	20								
1,1-Dichloroethane	ND	20								
cis-1,2-Dichloroethene	ND	20								
Chloroform	ND	20								
1,2-Dichloroethane	ND	20								
1,1,1-Trichloroethane	ND	20								
Carbon tetrachloride	ND	20								
Benzene	ND	5								
1,2-Dichloropropane	ND	20								
Trichloroethene	ND	20								
Bromodichloromethane	ND	20								
cis-1,3-Dichloropropene	ND	20								
trans-1,3-Dichloropropene	ND	20								
1,1,2-Trichloroethane	ND	20								
Toluene	ND	5								
Dibromochloromethane	ND	20								
Tetrachloroethene	ND	20								
Chlorobenzene	ND	20								
Ethylbenzene	ND	5								
m,p-Xylene	ND	5								
Bromoform	ND	20								
o-Xylene	ND	5								
1,1,2,2-Tetrachloroethane	ND	20								
1,3-Dichlorobenzene	ND	20								
1,4-Dichlorobenzene	ND	20								
1,2-Dichlorobenzene	ND	20								
Surr: 1,2-Dichloroethane-d4	213		200		107	68	119			
Surr: Toluene-d8	195		200		97	84	116			
Surr: 4-Bromofluorobenzene	187		200		94	72	118			

Laboratory Control Spike

Type **LCS** Test Code: **EPA Method SW8260B**

File ID: **06092805.D** Batch ID: **MS15S5695A** Analysis Date: **09/28/2006 09:48**

Sample ID: **LCS MS15S5695A** Units : **µg/Kg** Run ID: **MSD_15_060928A** Prep Date: **09/28/2006**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LowLimit	HighLimit	RPDRefVal	%RPD(Limit)	Qual
Benzene	473	10	400		118	58	147			
Toluene	431	10	400		108	58	148			
Ethylbenzene	439	10	400		110	59	151			
m,p-Xylene	474	10	400		119	60	155			
o-Xylene	477	10	400		119	62	155			
Surr: 1,2-Dichloroethane-d4	433		400		108	68	119			
Surr: Toluene-d8	369		400		92	84	116			
Surr: 4-Bromofluorobenzene	389		400		97	72	118			

Sample Matrix Spike

Type **MS** Test Code: **EPA Method SW8260B**

File ID: **06092811.D** Batch ID: **MS15S5695A** Analysis Date: **09/28/2006 12:03**

Sample ID: **06092756-04AMS** Units : **µg/Kg** Run ID: **MSD_15_060928A** Prep Date: **09/28/2006**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LowLimit	HighLimit	RPDRefVal	%RPD(Limit)	Qual
Benzene	551	20	800	0	69	30	151			
Toluene	505	20	800	0	63	25	159			
Ethylbenzene	507	20	800	0	63	27	161			
m,p-Xylene	547	20	800	0	68	22	170			
o-Xylene	552	20	800	0	69	22	171			
Surr: 1,2-Dichloroethane-d4	849		800		106	68	119			
Surr: Toluene-d8	766		800		96	84	116			
Surr: 4-Bromofluorobenzene	776		800		97	72	118			

Alpha Analytical, Inc.

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Date: *27-Oct-06*

QC Summary Report

Work Order: 06092756

Sample Matrix Spike Duplicate Type **MSD** Test Code: **EPA Method SW8260B**

File ID: **06092812.D** Batch ID: **MS15S5695A** Analysis Date: **09/28/2006 12:25**

Sample ID: **06092756-04AMSD** Units : **µg/Kg** Run ID: **MSD_15_060928A** Prep Date: **09/28/2006**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LowLimit	HighLimit	RPDRefVal	%RPD(Limit)	Qual
Benzene	517	20	800	0	65	30	151	550.7	6.4(37)	
Toluene	470	20	800	0	59	25	159	505.4	7.4(40)	
Ethylbenzene	478	20	800	0	60	27	161	507.5	6.0(39)	
m,p-Xylene	499	20	800	0	62	22	170	546.5	9.2(40)	
o-Xylene	515	20	800	0	64	22	171	551.6	6.9(41)	
Surr: 1,2-Dichloroethane-d4	848		800		106	68	119			
Surr: Toluene-d8	769		800		96	84	116			
Surr: 4-Bromofluorobenzene	783		800		98	72	118			

Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

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Date: 27-Oct-06

QC Summary Report

Work Order: 06092756

Method Blank

Type MBLK Test Code: EPA Method SW8260B

File ID: C:\HPCHEM\MS07\DATA\060929\06092912.D Batch ID: MS07S5697A Analysis Date: 09/29/2006 12:29

Sample ID: MBLK MS07S5697A Units : µg/Kg Run ID: MSD_07_060928C Prep Date: 09/29/2006

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LowLimit	HighLimit	RPDRefVal	%RPD(Limit)	Qual
Chloromethane	ND	40								
Vinyl chloride	ND	20								
Chloroethane	ND	20								
Bromomethane	ND	40								
Trichlorofluoromethane	ND	20								
1,1-Dichloroethene	ND	20								
Dichloromethane	ND	40								
trans-1,2-Dichloroethene	ND	20								
1,1-Dichloroethane	ND	20								
cis-1,2-Dichloroethene	ND	20								
Chloroform	ND	20								
1,2-Dichloroethane	ND	20								
1,1,1-Trichloroethane	ND	20								
Carbon tetrachloride	ND	20								
Benzene	ND	5								
1,2-Dichloropropane	ND	20								
Trichloroethene	ND	20								
Bromodichloromethane	ND	20								
cis-1,3-Dichloropropene	ND	20								
trans-1,3-Dichloropropene	ND	20								
1,1,2-Trichloroethane	ND	20								
Toluene	ND	5								
Dibromochloromethane	ND	20								
Tetrachloroethene	ND	20								
Chlorobenzene	ND	20								
Ethylbenzene	ND	5								
m,p-Xylene	ND	5								
Bromoform	ND	20								
o-Xylene	ND	5								
1,1,2,2-Tetrachloroethane	ND	20								
1,3-Dichlorobenzene	ND	20								
1,4-Dichlorobenzene	ND	20								
1,2-Dichlorobenzene	ND	20								
Surr: 1,2-Dichloroethane-d4	193		200		96	68	119			
Surr: Toluene-d8	201		200		101	84	116			
Surr: 4-Bromofluorobenzene	192		200		96	72	118			

Laboratory Control Spike

Type LCS Test Code: EPA Method SW8260B

File ID: C:\HPCHEM\MS07\DATA\060929\06092913.D Batch ID: MS07S5697A Analysis Date: 09/29/2006 12:51

Sample ID: LCS MS07S5697A Units : µg/Kg Run ID: MSD_07_060928C Prep Date: 09/29/2006

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LowLimit	HighLimit	RPDRefVal	%RPD(Limit)	Qual
Benzene	394	10	400		99	58	147			
Toluene	390	10	400		98	58	148			
Ethylbenzene	404	10	400		101	59	151			
m,p-Xylene	421	10	400		105	60	155			
o-Xylene	395	10	400		99	62	155			
Surr: 1,2-Dichloroethane-d4	377		400		94	68	119			
Surr: Toluene-d8	415		400		104	84	116			
Surr: 4-Bromofluorobenzene	381		400		95	72	118			

Sample Matrix Spike

Type MS Test Code: EPA Method SW8260B

File ID: C:\HPCHEM\MS07\DATA\060929\06092915.D Batch ID: MS07S5697A Analysis Date: 09/29/2006 13:36

Sample ID: 06092756-12AMS Units : µg/Kg Run ID: MSD_07_060928C Prep Date: 09/29/2006

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LowLimit	HighLimit	RPDRefVal	%RPD(Limit)	Qual
Benzene	359	10	400	0	90	30	151			
Toluene	365	10	400	0	91	25	159			
Ethylbenzene	380	10	400	0	95	27	161			
m,p-Xylene	401	10	400	0	100	22	170			
o-Xylene	368	10	400	0	92	22	171			
Surr: 1,2-Dichloroethane-d4	359		400		90	68	119			
Surr: Toluene-d8	417		400		104	84	116			
Surr: 4-Bromofluorobenzene	373		400		93	72	118			

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Date: *27-Oct-06*

OC Summary Report

Work Order: 06092756

Sample Matrix Spike Duplicate Type **MSD** Test Code: **EPA Method SW8260B**

File ID: **C:\HPCHEM\MS07\DATA\060929\06092916.D** Batch ID: **MS07S5697A** Analysis Date: **09/29/2006 14:00**

Sample ID: **06092756-12AMSD** Units : **µg/Kg** Run ID: **MSD_07_060928C** Prep Date: **09/29/2006**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LowLimit	HighLimit	RPDRefVal	%RPD(Limit)	Qual
Benzene	277	10	400	0	69	30	151	359.3	26.0(37)	
Toluene	279	10	400	0	70	25	159	365.2	26.9(40)	
Ethylbenzene	288	10	400	0	72	27	161	380.5	27.6(39)	
m,p-Xylene	300	10	400	0	75	22	170	401	28.8(40)	
o-Xylene	273	10	400	0	68	22	171	367.9	29.5(41)	
Surr: 1,2-Dichloroethane-d4	360		400		90	68	119			
Surr: Toluene-d8	419		400		105	84	116			
Surr: 4-Bromofluorobenzene	379		400		95	72	118			

Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

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Date: 27-Oct-06

OC Summary Report

Work Order: 06092756

Method Blank

Type MBLK Test Code: EPA Method SW8260B

File ID: C:\HPCHEM\MS07\DATA\060929\06092948.D Batch ID: MS07S5698A Analysis Date: 09/30/2006 02:02

Sample ID: MBLK MS07S5698A Units : µg/Kg Run ID: MSD_07_060929A Prep Date: 09/30/2006

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LowLimit	HighLimit	RPDRefVal	%RPD(Limit)	Qual
Chloromethane	ND	40								
Vinyl chloride	ND	20								
Chloroethane	ND	20								
Bromomethane	ND	40								
Trichlorofluoromethane	ND	20								
1,1-Dichloroethene	ND	20								
Dichloromethane	ND	40								
trans-1,2-Dichloroethene	ND	20								
1,1-Dichloroethane	ND	20								
cis-1,2-Dichloroethene	ND	20								
Chloroform	ND	20								
1,2-Dichloroethane	ND	20								
1,1,1-Trichloroethane	ND	20								
Carbon tetrachloride	ND	20								
Benzene	ND	5								
1,2-Dichloropropane	ND	20								
Trichloroethene	ND	20								
Bromodichloromethane	ND	20								
cis-1,3-Dichloropropene	ND	20								
trans-1,3-Dichloropropene	ND	20								
1,1,2-Trichloroethane	ND	20								
Toluene	ND	5								
Dibromochloromethane	ND	20								
Tetrachloroethene	ND	20								
Chlorobenzene	ND	20								
Ethylbenzene	ND	5								
m,p-Xylene	ND	5								
Bromoform	ND	20								
o-Xylene	ND	5								
1,1,2,2-Tetrachloroethane	ND	20								
1,3-Dichlorobenzene	ND	20								
1,4-Dichlorobenzene	ND	20								
1,2-Dichlorobenzene	ND	20								
Surr: 1,2-Dichloroethane-d4	187		200		93	68	119			
Surr: Toluene-d8	206		200		103	84	116			
Surr: 4-Bromofluorobenzene	187		200		94	72	118			

Laboratory Control Spike

Type LCS Test Code: EPA Method SW8260B

File ID: C:\HPCHEM\MS07\DATA\060929\06092949.D Batch ID: MS07S5698A Analysis Date: 09/30/2006 02:24

Sample ID: LCS MS07S5698A Units : µg/Kg Run ID: MSD_07_060929A Prep Date: 09/30/2006

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LowLimit	HighLimit	RPDRefVal	%RPD(Limit)	Qual
Benzene	357	10	400		89	58	147			
Toluene	351	10	400		88	58	148			
Ethylbenzene	361	10	400		90	59	151			
m,p-Xylene	378	10	400		95	60	155			
o-Xylene	351	10	400		88	62	155			
Surr: 1,2-Dichloroethane-d4	370		400		92	68	119			
Surr: Toluene-d8	411		400		103	84	116			
Surr: 4-Bromofluorobenzene	381		400		95	72	118			

Sample Matrix Spike

Type MS Test Code: EPA Method SW8260B

File ID: C:\HPCHEM\MS07\DATA\060929\06092950.D Batch ID: MS07S5698A Analysis Date: 09/30/2006 02:47

Sample ID: 06092756-32AMS Units : µg/Kg Run ID: MSD_07_060929A Prep Date: 09/30/2006

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LowLimit	HighLimit	RPDRefVal	%RPD(Limit)	Qual
Benzene	366	10	400	0	92	30	151			
Toluene	366	10	400	0	92	25	159			
Ethylbenzene	382	10	400	0	96	27	161			
m,p-Xylene	398	10	400	0	99.5	22	170			
o-Xylene	373	10	400	0	93	22	171			
Surr: 1,2-Dichloroethane-d4	366		400		91	68	119			
Surr: Toluene-d8	415		400		104	84	116			
Surr: 4-Bromofluorobenzene	378		400		95	72	118			

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Date: *27-Oct-06*

QC Summary Report

Work Order: 06092756

Sample Matrix Spike Duplicate Type **MSD** Test Code: **EPA Method SW8260B**

File ID: **C:\HPCHEM\MS07\DATA\060929\06092951.D** Batch ID: **MS07S5698A** Analysis Date: **09/30/2006 03:09**

Sample ID: **06092756-32AMSD** Units : **µg/Kg** Run ID: **MSD_07_060929A** Prep Date: **09/30/2006**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LowLimit	HighLimit	RPDRefVal	%RPD(Limit)	Qual
Benzene	361	10	400	0	90	30	151	366.2	1.5(37)	
Toluene	360	10	400	0	90	25	159	366.4	1.7(40)	
Ethylbenzene	373	10	400	0	93	27	161	382.3	2.5(39)	
m,p-Xylene	389	10	400	0	97	22	170	398	2.3(40)	
o-Xylene	366	10	400	0	92	22	171	373.2	1.9(41)	
Surr: 1,2-Dichloroethane-d4	361		400		90	68	119			
Surr: Toluene-d8	412		400		103	84	116			
Surr: 4-Bromofluorobenzene	381		400		95	72	118			

Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

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Date: *27-Oct-06*

QC Summary Report

Work Order: 06092756

Method Blank

Type **MBLK** Test Code: **EPA Method SW8015**

File ID: Batch ID: **15703** Analysis Date: **09/28/2006 15:16**

Sample ID: **MBLK-15703** Units : **mg/L** Run ID: **FID_3_060928A** Prep Date: **09/28/2006**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LowLimit	HighLimit	RPDRefVal	%RPD(Limit)	Qual
TPH-E (Diesel)	ND	5								
TPH-E (Oil)	ND	10								
Surr: Nonane	78.5		100		78	47	141			

Laboratory Control Spike

Type **LCS** Test Code: **EPA Method SW8015**

File ID: Batch ID: **15703** Analysis Date: **09/28/2006 14:43**

Sample ID: **LCS-15703** Units : **mg/Kg** Run ID: **FID_3_060928A** Prep Date: **09/28/2006**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LowLimit	HighLimit	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO)	106	10	100		106	68	128			
Surr: Nonane	129		100		129	48	142			

Sample Matrix Spike

Type **MS** Test Code: **EPA Method SW8015**

File ID: Batch ID: **15703** Analysis Date: **09/29/2006 05:11**

Sample ID: **06092756-20AMS** Units : **mg/Kg** Run ID: **FID_3_060928A** Prep Date: **09/28/2006**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LowLimit	HighLimit	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO)	102	10	100	6	96	53	153			
Surr: Nonane	74		100		74	48	142			

Sample Matrix Spike Duplicate

Type **MSD** Test Code: **EPA Method SW8015**

File ID: Batch ID: **15703** Analysis Date: **09/29/2006 05:45**

Sample ID: **06092756-20AMSD** Units : **mg/Kg** Run ID: **FID_3_060928A** Prep Date: **09/28/2006**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LowLimit	HighLimit	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO)	98.2	10	100	6	92	53	153	101.9	3.7(22)	
Surr: Nonane	67.4		100		67	48	142			

Comments:

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Date: *27-Oct-06*

OC Summary Report

Work Order: 06092756

Method Blank

Type **MBLK** Test Code: **EPA Method SW8015**

File ID: Batch ID: **15704** Analysis Date: **09/28/2006 15:46**

Sample ID: **MBLK-15704** Units : **mg/Kg** Run ID: **FID_2_060928A** Prep Date: **09/28/2006**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LowLimit	HighLimit	RPDRefVal	%RPD(Limit)	Qual
TPH-E (Diesel)	ND	5								
TPH-E (Oil)	ND	10								
Surr: Nonane	121		100		121	48	142			

Laboratory Control Spike

Type **LCS** Test Code: **EPA Method SW8015**

File ID: Batch ID: **15704** Analysis Date: **09/28/2006 15:15**

Sample ID: **LCS-15704** Units : **mg/Kg** Run ID: **FID_2_060928A** Prep Date: **09/28/2006**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LowLimit	HighLimit	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO)	93	10	100		93	68	128			
Surr: Nonane	120		100		120	48	142			

Sample Matrix Spike

Type **MS** Test Code: **EPA Method SW8015**

File ID: Batch ID: **15704** Analysis Date: **09/28/2006 17:20**

Sample ID: **06092756-22AMS** Units : **mg/Kg** Run ID: **FID_2_060928A** Prep Date: **09/28/2006**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LowLimit	HighLimit	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO)	107	10	100	8.7	99	53	153			
Surr: Nonane	119		100		119	48	142			

Sample Matrix Spike Duplicate

Type **MSD** Test Code: **EPA Method SW8015**

File ID: Batch ID: **15704** Analysis Date: **09/28/2006 17:52**

Sample ID: **06092756-22AMSD** Units : **mg/Kg** Run ID: **FID_2_060928A** Prep Date: **09/28/2006**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LowLimit	HighLimit	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO)	99.8	10	100	8.7	91	53	153	107.4	7.3(22)	
Surr: Nonane	121		100		121	48	142			

Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

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Date: *27-Oct-06*

QC Summary Report

Work Order: 06092756

Method Blank

Type **MBLK** Test Code: **EPA Method SW8015**
File ID: Batch ID: **15706** Analysis Date: **09/29/2006 10:17**
Sample ID: **MBLK-15706** Units : **mg/Kg** Run ID: **FID_4_060928B** Prep Date: **09/28/2006**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LowLimit	HighLimit	RPDRefVal	%RPD(Limit)	Qual
TPH-E (Diesel)	ND	5								
TPH-E (Oil)	ND	10								
Surr: Nonane	92.6		100		93	48	142			

Laboratory Control Spike

Type **LCS** Test Code: **EPA Method SW8015**
File ID: Batch ID: **15706** Analysis Date: **09/29/2006 10:53**
Sample ID: **LCS-15706** Units : **mg/Kg** Run ID: **FID_4_060928B** Prep Date: **09/28/2006**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LowLimit	HighLimit	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO)	87.5	10	100		87	68	128			
Surr: Nonane	95.2		100		95	48	142			

Sample Matrix Spike

Type **MS** Test Code: **EPA Method SW8015**
File ID: Batch ID: **15706** Analysis Date: **09/29/2006 15:43**
Sample ID: **06092756-49AMS** Units : **mg/Kg** Run ID: **FID_4_060928B** Prep Date: **09/28/2006**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LowLimit	HighLimit	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO)	135	10	100	200	-65	53	153			M50
Surr: Nonane	67.3		100		67	48	142			

Sample Matrix Spike Duplicate

Type **MSD** Test Code: **EPA Method SW8015**
File ID: Batch ID: **15706** Analysis Date: **09/29/2006 16:18**
Sample ID: **06092756-49AMSD** Units : **mg/Kg** Run ID: **FID_4_060928B** Prep Date: **09/28/2006**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LowLimit	HighLimit	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO)	124	10	100	200	-76	53	153	135.2	8.6(22)	M50
Surr: Nonane	68.7		100		69	48	142			

Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

M50 = Matrix spike recovery was below laboratory acceptance limits and is likely due to sample non-homogeneity. The laboratory control sample recovery was acceptable.

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Date: *27-Oct-06*

QC Summary Report

Work Order: 06092756

Method Blank

Type **MBLK** Test Code: **EPA Method SW8015B**

File ID: **C:\HPCHEM\MS07\DATA\060929\06092912.D** Batch ID: **MS07S5697B** Analysis Date: **09/29/2006 12:29**

Sample ID: **MBLK MS07S5697B** Units : **mg/Kg** Run ID: **MSD_07_060928C** Prep Date: **09/29/2006**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LowLimit	HighLimit	RPDRefVal	%RPD(Limit)	Qual
TPH-P (Purgeable)	ND	1								
Surr: 1,2-Dichloroethane-d4	0.193		0.2		96	68	119			
Surr: Toluene-d8	0.201		0.2		101	84	116			
Surr: 4-Bromofluorobenzene	0.192		0.2		96	72	118			

Laboratory Control Spike

Type **LCS** Test Code: **EPA Method SW8015B**

File ID: **C:\HPCHEM\MS07\DATA\060929\06092914.D** Batch ID: **MS07S5697B** Analysis Date: **09/29/2006 13:14**

Sample ID: **GLCS MS07W5697B** Units : **mg/Kg** Run ID: **MSD_07_060928C** Prep Date: **09/29/2006**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LowLimit	HighLimit	RPDRefVal	%RPD(Limit)	Qual
TPH-P (Purgeable)	14.5	2	16		90	60	153			
Surr: 1,2-Dichloroethane-d4	0.375		0.4		94	68	119			
Surr: Toluene-d8	0.401		0.4		100	84	116			
Surr: 4-Bromofluorobenzene	0.389		0.4		97	72	118			

Sample Matrix Spike

Type **MS** Test Code: **EPA Method SW8015B**

File ID: **C:\HPCHEM\MS07\DATA\060929\06092917.D** Batch ID: **MS07S5697B** Analysis Date: **09/29/2006 14:22**

Sample ID: **06092756-12AGS** Units : **mg/Kg** Run ID: **MSD_07_060928C** Prep Date: **09/29/2006**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LowLimit	HighLimit	RPDRefVal	%RPD(Limit)	Qual
TPH-P (Purgeable)	7.42	2	16	0	46	8	177			
Surr: 1,2-Dichloroethane-d4	0.357		0.4		89	68	119			
Surr: Toluene-d8	0.408		0.4		102	84	116			
Surr: 4-Bromofluorobenzene	0.384		0.4		96	72	118			

Sample Matrix Spike Duplicate

Type **MSD** Test Code: **EPA Method SW8015B**

File ID: **C:\HPCHEM\MS07\DATA\060929\06092918.D** Batch ID: **MS07S5697B** Analysis Date: **09/29/2006 14:45**

Sample ID: **06092756-12AGSD** Units : **mg/Kg** Run ID: **MSD_07_060928C** Prep Date: **09/29/2006**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LowLimit	HighLimit	RPDRefVal	%RPD(Limit)	Qual
TPH-P (Purgeable)	8.95	2	16	0	56	8	177	7.421	18.7(45)	
Surr: 1,2-Dichloroethane-d4	0.364		0.4		91	68	119			
Surr: Toluene-d8	0.405		0.4		101	84	116			
Surr: 4-Bromofluorobenzene	0.377		0.4		94	72	118			

Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

Date: *27-Oct-06*

QC Summary Report

Work Order: 06092756

Method Blank

Type **MBLK** Test Code: **EPA Method SW8015B**

File ID: **C:\HPCHEM\MS07\DATA\060929\06092948.D** Batch ID: **MS07S5698B** Analysis Date: **09/30/2006 02:02**

Sample ID: **MBLK MS07S5698B** Units : **mg/Kg** Run ID: **MSD_07_060929A** Prep Date: **09/30/2006**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LowLimit	HighLimit	RPDRefVal	%RPD(Limit)	Qual
TPH-P (Purgeable)	ND	1								
Surr: 1,2-Dichloroethane-d4	0.187		0.2		93	68	119			
Surr: Toluene-d8	0.206		0.2		103	84	116			
Surr: 4-Bromofluorobenzene	0.187		0.2		94	72	118			

Laboratory Control Spike

Type **LCS** Test Code: **EPA Method SW8015B**

File ID: **C:\HPCHEM\MS07\DATA\060929\06092952.D** Batch ID: **MS07S5698B** Analysis Date: **09/30/2006 03:32**

Sample ID: **GLCS MS07S5698B** Units : **mg/Kg** Run ID: **MSD_07_060929A** Prep Date: **09/30/2006**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LowLimit	HighLimit	RPDRefVal	%RPD(Limit)	Qual
TPH-P (Purgeable)	13	2	16		81	60	153			
Surr: 1,2-Dichloroethane-d4	0.365		0.4		91	68	119			
Surr: Toluene-d8	0.404		0.4		101	84	116			
Surr: 4-Bromofluorobenzene	0.384		0.4		96	72	118			

Sample Matrix Spike

Type **MS** Test Code: **EPA Method SW8015B**

File ID: **C:\HPCHEM\MS07\DATA\060929\06092953.D** Batch ID: **MS07S5698B** Analysis Date: **09/30/2006 03:54**

Sample ID: **06092756-32AGS** Units : **mg/Kg** Run ID: **MSD_07_060929A** Prep Date: **09/30/2006**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LowLimit	HighLimit	RPDRefVal	%RPD(Limit)	Qual
TPH-P (Purgeable)	12.3	2	16	0	77	8	177			
Surr: 1,2-Dichloroethane-d4	0.362		0.4		91	68	119			
Surr: Toluene-d8	0.405		0.4		101	84	116			
Surr: 4-Bromofluorobenzene	0.383		0.4		96	72	118			

Sample Matrix Spike Duplicate

Type **MSD** Test Code: **EPA Method SW8015B**

File ID: **C:\HPCHEM\MS07\DATA\060929\06092954.D** Batch ID: **MS07S5698B** Analysis Date: **09/30/2006 04:17**

Sample ID: **06092756-32AGSD** Units : **mg/Kg** Run ID: **MSD_07_060929A** Prep Date: **09/30/2006**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LowLimit	HighLimit	RPDRefVal	%RPD(Limit)	Qual
TPH-P (Purgeable)	12.6	2	16	0	79	8	177	12.32	2.2(45)	
Surr: 1,2-Dichloroethane-d4	0.363		0.4		91	68	119			
Surr: Toluene-d8	0.407		0.4		102	84	116			
Surr: 4-Bromofluorobenzene	0.384		0.4		96	72	118			

Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

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Date: *27-Oct-06*

QC Summary Report

Work Order: 06092756

Method Blank

File ID: **06092807.D** | Type **MBLK** | Test Code: **EPA Method SW8015B**

Batch ID: **MS15S5695B** | Analysis Date: **09/28/2006 10:33**

Sample ID: **MBLK MS15S5695B** | Units : **mg/Kg** | Run ID: **MSD_15_060928A** | Prep Date: **09/28/2006**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LowLimit	HighLimit	RPDRefVal	%RPD(Limit)	Qual
TPH-P (Purgeable)	ND	1								
Surr: 1,2-Dichloroethane-d4	0.213		0.2		107	68	119			
Surr: Toluene-d8	0.195		0.2		97	84	116			
Surr: 4-Bromofluorobenzene	0.187		0.2		94	72	118			

Laboratory Control Spike

File ID: **06092806.D** | Type **LCS** | Test Code: **EPA Method SW8015B**

Batch ID: **MS15S5695B** | Analysis Date: **09/28/2006 10:11**

Sample ID: **GLCS MS15S5695B** | Units : **mg/Kg** | Run ID: **MSD_15_060928A** | Prep Date: **09/28/2006**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LowLimit	HighLimit	RPDRefVal	%RPD(Limit)	Qual
TPH-P (Purgeable)	17	2	16		106	60	153			
Surr: 1,2-Dichloroethane-d4	0.433		0.4		108	68	119			
Surr: Toluene-d8	0.382		0.4		96	84	116			
Surr: 4-Bromofluorobenzene	0.38		0.4		95	72	118			

Sample Matrix Spike

File ID: **06092813.D** | Type **MS** | Test Code: **EPA Method SW8015B**

Batch ID: **MS15S5695B** | Analysis Date: **09/28/2006 12:48**

Sample ID: **06092756-04AGS** | Units : **mg/Kg** | Run ID: **MSD_15_060928A** | Prep Date: **09/28/2006**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LowLimit	HighLimit	RPDRefVal	%RPD(Limit)	Qual
TPH-P (Purgeable)	17.1	4	32	0	54	8	177			
Surr: 1,2-Dichloroethane-d4	0.835		0.8		104	68	119			
Surr: Toluene-d8	0.781		0.8		98	84	116			
Surr: 4-Bromofluorobenzene	0.785		0.8		98	72	118			

Sample Matrix Spike Duplicate

File ID: **06092814.D** | Type **MSD** | Test Code: **EPA Method SW8015B**

Batch ID: **MS15S5695B** | Analysis Date: **09/28/2006 13:10**

Sample ID: **06092756-04AGSD** | Units : **mg/Kg** | Run ID: **MSD_15_060928A** | Prep Date: **09/28/2006**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LowLimit	HighLimit	RPDRefVal	%RPD(Limit)	Qual
TPH-P (Purgeable)	16.1	4	32	0	50	8	177	17.15	6.5(45)	
Surr: 1,2-Dichloroethane-d4	0.833		0.8		104	68	119			
Surr: Toluene-d8	0.778		0.8		97	84	116			
Surr: 4-Bromofluorobenzene	0.777		0.8		97	72	118			

Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

Billing Information:
Name: KLEINFELDER
Address:
City, State, Zip:
Phone Number: Fax:

Alpha Analytical, Inc.
255 Glendale Avenue, Suite 21
Sparks, Nevada 89431-5778
Phone (775) 355-1044
Fax (775) 355-0406

Samples Collected From Which State?
AZ ___ CA X NV ___ WA ___
ID ___ OR ___ OTHER ___

Page # 1 of 5

Analyses Required

11422

Client Name	P.O. #	Job # 74330.02
Address	EMail Address	
City, State, Zip	Phone #	Fax #

Required QC Level? I II III IV

EDD / EDF? YES ___ NO ___

Global ID # ___

Sampled by: DAVE HERZOG/PHILT

Report Attention: DAVE HERZOG

Time Sampled	Date Sampled	Matrix* See Key Below	Office Use Only Lab ID Number	Sample Description	TAT	Field Filtered	Total and type of containers ** See below	TPH-GAS (Rouselle)	TPH-DIESEL	TPH-OIL	BTEX					REMARKS
930	9/25/06	SO	KLF0609275601	B-1 1-2'	SD		1S	X	X	X	X					Report as
945			-02	B-1 4-5				X	X	X	X					TPH-Rouselle
955			-03	B-1 9-10												TPH-Extractable
1100			-04	B-2 1-2												as Diesel
1110			-05	B-2 4-5												+ Oil
1200			-06	B-2 9-10												
1330			-07	B-3 1-2												
1350			-08	B-3 4-5												
1530			-09	B-3 9-10												
1443			-10	B-4 1-2												
1450			-11	B-4 4-5												
1530			-12	B-4 8-9												
1300			-13	B-5 1-2												

ADDITIONAL INSTRUCTIONS:

	Signature	Print Name	Company	Date	Time
Relinquished by		DAVE HERZOG	KLEINFELDER	9-27-06	12:20
Received by		Jaci Dickinson	Alpha	9/27/06	1220
Relinquished by					
Received by					
Relinquished by					
Received by					

*Key: AQ - Aqueous SO - Soil WA - Waste OT - Other **: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this coc. The liability of the laboratory is limited to the amount paid for the report.

Billing Information:
Name: KLEINFELDER
Address:
City, State, Zip:
Phone Number: Fax:

Alpha Analytical, Inc.
255 Glendale Avenue, Suite 21
Sparks, Nevada 89431-5778
Phone (775) 355-1044
Fax (775) 355-0406

Samples Collected From Which State?
AZ ___ CA X NV ___ WA ___
ID ___ OR ___ OTHER ___

Page # 2 of 5

17414

Client Name:
Address:
City, State, Zip:
P.O. #:
Job # 94330.00
EMail Address:
Phone #:
Fax #:

Required QC Level? I II III IV
EDD / EDF? YES ___ NO ___
Global ID #:

Sampled by: DAVE HERZOG / PROSIGNANT
Report Attention: DAVE HERZOG

Time Sampled	Date Sampled	Matrix* See Key Below	Lab ID Number (Office Use Only)	Sample Description	TAT	Field Filtered	Total and type of containers ** See below	TPH-D	TPH-D	TPH-O	BTEX				REMARKS
1345	9/26/06	SO	KLF0092756-14	B5 5-6	STD		15	X	X	X	X				
1355			-15	B5 9-10											
1425			-16	B6 2-4											
1435			-17	B6 5-6											
1445			-18	B6 8-9											
1208			-19	B7 1-2											
1315			-20	B7 6-7											
1320			-21	B7 9-10											
1145			-22	B8 1-2											
1200			-23	B8 4-5											
1025			-24	B9 2-3											
1035			-25	B9 4-5											
1040			-26	B9 9-10											

ADDITIONAL INSTRUCTIONS:

	Signature	Print Name	Company	Date	Time
Relinquished by		DAVE HERZOG	KLEINFELDER	9-27-06	1225
Received by		Lane Dickinson	Alpha	9/27/06	1225
Relinquished by					
Received by					
Relinquished by					
Received by					

*Key: AQ - Aqueous SO - Soil WA - Waste OT - Other AR - Air **: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this coc. The liability of the laboratory is limited to the amount paid for the report.

Billing Information:
Name: Kleinfelder
Address:
City, State, Zip:
Phone Number: Fax:

Alpha Analytical, Inc.
255 Glendale Avenue, Suite 21
Sparks, Nevada 89431-5778
Phone (775) 355-1044
Fax (775) 355-0406

Samples Collected From Which State?
AZ ___ CA X NV ___ WA ___
ID ___ OR ___ OTHER ___

Page # 3 of 5

17416

Analyses Required

Required QC Level? I II III IV

EDD / EDF? YES ___ NO ___

Global ID #

Client Name	P.O. #	Job #
Address	EMail Address	
City, State, Zip	Phone #	Fax #

Sampled by: Heather / P Tousignant
Report Attention: Dave Herzog

Time Sampled	Date Sampled	Matrix* See Key Below	Lab ID Number (Office Use Only)	Sample Description	TAT	Field Filtered	Total and type of containers ** See below	TPH-D	TPH-D	TPH-O	BTEX				REMARKS
1110	9/26/06	SO	KLF0609275277	B-10 2-3	STD		15	X	X	X	X				
1115			-28	B-10 4-5											
1125			-29	B-10 7-9											
1610			-30	B-13 2-3											
1615			-31	B-13 4-5											
1630			-32	B-13 9-10											
			-33	AVP 1											
			-34	AVP 2											
			-35	AVP 3											

ADDITIONAL INSTRUCTIONS:

	Signature	Print Name	Company	Date	Time
Relinquished by	[signature]	David Herzog	Kleinfelder	9/27/06	1225
Received by	[signature]	Tara Dickinson	Alpha	9/27/06	1225
Relinquished by					
Received by					
Relinquished by					
Received by					

*Key: AQ - Aqueous SO - Soil WA - Waste OT - Other AR - Air **: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this coc. The liability of the laboratory is limited to the amount paid for the report.

Billing Information:
Name: Klinefelter
Address:
City, State, Zip:
Phone Number: Fax:

Alpha Analytical, Inc.
255 Glendale Avenue, Suite 21
Sparks, Nevada 89431-5778
Phone (775) 355-1044
Fax (775) 355-0406

Samples Collected From Which State?
AZ ___ CA X NV ___ WA ___
ID ___ OR ___ OTHER ___

Page # 4 of 5

Analyses Required

17415

Required QC Level? I II III IV

EDD / EDF? YES ___ NO ___

Global ID # ___

Client Name | P.O. # | Job #
Address | EMail Address
City, State, Zip | Phone # | Fax #

Time Sampled	Date Sampled	Matrix* See Key Below	Sampled by / Lab ID Number (Office Use Only)	Report Attention / Sample Description	TAT	Field Filtered	Total and type of containers ** See below	TPH-Purgeables (GRO)	TPH-Diesel	TPH-O/C	8260	8270			REMARKS
9/26/06	1045		KLF0609255L-36	B-11-1-2				X	X	X	X				
	1055		-37	B-11-4-5				X	X	X	X				
	1110		-38	B-11-9-10				X	X	X	X				
			-39	DUP 5				X	X	X	X				
	0815		-40	B-12-1-2				X	X	X		X			
	0825		-41	B-12 4-5				X	X	X		X			
	0835		-42	B-12 9-10				X	X	X		X			
	0855		-43	B-14 1-2				X	X	X		X			
	1005		-44	B-14 3-4				X	X	X		X			
	1015		-45	B-14 9-10				X	X	X		X			
	0910		-46	B-15 1-2				X	X	X		X			
	0930		-47	B-15 4-5				X	X	X		X			
	0945		-48	B-15 9-10				X	X	X		X			

ADDITIONAL INSTRUCTIONS:

	Signature	Print Name	Company	Date	Time
Relinquished by		DAVID HERZOG	Klinefelter	9-27-06	1240
Received by		Tara Dickinson	Alpha	9/27/06	1240
Relinquished by					
Received by					
Relinquished by					
Received by					

*Key: AQ - Aqueous SO - Soil WA - Waste OT - Other AR - Air **: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this coc. The liability of the laboratory is limited to the amount paid for the report.

Billing Information:
Name Kleinfelder
Address
City, State, Zip
Phone Number Fax

Alpha Analytical, Inc.
255 Glendale Avenue, Suite 21
Sparks, Nevada 89431-5778
Phone (775) 355-1044
Fax (775) 355-0406

Samples Collected From Which State?
AZ ___ CA ✓ NV ___ WA ___
ID ___ OR ___ OTHER ___

Page # 5 of 5

17413

Analyses Required

Required QC Level? I II III IV

EDD / EDF? YES ___ NO ___

Global ID # ___

Client Name	P.O. #	Job #
Address	EMail Address	
City, State, Zip	Phone #	Fax #

Time Sampled	Date Sampled	Matrix* See Key Below	Sampled by: DHERZOG / Lab ID Number (Office Use Only)	Report Attention: DAVE HERZOG / Sample Description	TAT	Field Filtered	Total and type of containers ** See below	TPH-D	TPH-Diesel	TPH-Oil	BTEX				REMARKS
	9/27/06	SO	KEF0609273549	DUP 4	STD		15	X	X	X	X				

ADDITIONAL INSTRUCTIONS:

	Signature	Print Name	Company	Date	Time
Relinquished by		DAVE HERZOG	KLEINFELDER	9-27-06	12:45
Received by		Jake Dickinson	Alpha	9/27/06	1245
Relinquished by					
Received by					
Relinquished by					
Received by					

*Key: AQ - Aqueous SO - Soil WA - Waste OT - Other AR - Air **: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this coc. The liability of the laboratory is limited to the amount paid for the report.