[redacted]

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July 3, 1996
File No. 10-3002-84/007

Ms. Delight Saxton, Vice President
McGrath RentCorp
2500 Grant Avenue
San Lorenzo, California 94580

SUBJECT: Final Report - Site Investigation and Remediation
2500 Grant Avenue
San Lorenzo, California 94580

Dear Delight:

Kleinfelder, Inc. (Kleinfelder) is pleased to provide you with our final report for Site Investigation and Remediation of the subject site. Our subsurface investigation has been completed, storm drain cleaned, and impacted soils excavated to background levels.

Ms. Roxy Barnett, our Senior Program Biologist, will provide an additional environmental data support document next week. Kleinfelder believes no further environmental action is warranted at this time.

As you requested, copies of this report are being mailed directly by Kleinfelder to the regulatory agencies as cited in our report.

We appreciate your trust in our ability to serve your environmental needs. If you have any further questions, please call us at (510) 484-1700.

Sincerely,

KLEINFELDER, INC.

Alan D. Gibbs, R.G., C.H.G., R.E.A.
Environmental Manager

Enclosures

KLEINFELDER 7133 Koll Center Parkway, Suite 100, Pleasanton, CA 94566-3101 (510) 484-1700

cc: Mr. Mark Johnson - Regional Water Quality Control Board
Ms. Madhulla Logan - Alameda County Department of Environmental Health
Mr. Wyman Hong - Alameda County Flood Control Water Conservation District
Mr. Mike Cortez - Oro Loma Sanitary District
Ms. Roxy Barnett - Kleinfelder, Inc.
Chris Ream, Esquire

KLEINFELDER 7133 Koll Center Parkway, Suite 100, Pleasanton, CA 94566-3101 (510) 484-1700

KLEINFELDER

FINAL REPORT
SITE INVESTIGATION AND REMEDIATION
2500 GRANT AVENUE
SAN LORENZO, CALIFORNIA

July 2, 1996

A Report Prepared for:

Ms. Delight Saxton, Vice President
McGrath RentCorp.
2500 Grant Avenue
San Lorenzo, California 94580

FINAL REPORT - SITE INVESTIGATION AND REMEDIATION
2500 GRANT AVENUE
SAN LORENZO, CALIFORNIA

Kleinfelder Job No. 10-3002-84/007

Prepared by:

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July 3, 1996

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1.0 INTRODUCTION

Kleinfelder, Inc. (Kleinfelder) is pleased to submit this report, on behalf of McGrath RentCorp, which summarizes the initial environmental investigation, storm drain cleaning, drainage ditch sampling, soil excavation at the storm drain outlet, water treatment and ditch excavation at the subject site. A site location map is included as Plate 1. This work was completed in accordance with our proposal dated January 29, 1996, and various add-authorizations signed in March through June 1996.

Kleinfelder has completed our investigation and remediation of the site for zinc impacted sludge in the storm drain and soils at the storm drain outfall. Kleinfelder believes no further environmental action is warranted at this time.

Following is a detailed discussion of work completed by Kleinfelder and others.

2.0 BACKGROUND

Kleinfelder understands that McGrath RentCorp (McGrath) has been leasing the subject property for approximately eight years and is now planning to move to another area. The owner of the site contracted PHASE ONE Inc. to complete a Standard Phase I Environmental Site Assessment for the site. In the assessment report completed in December 1995, several environmental concerns were expressed. The areas of concern were 55 gallon drums, paint storage areas, and storm drain inlets in close proximity to these areas. Most of the drums were not labelled and the contents unknown. The owner of the site requested that McGrath address the concerns outlined in the Phase I report before vacating the site.

3.0 WORK OBJECTIVE AND SCOPE OF WORK

The objective of the work completed by Kleinfelder was to address the concerns outlined in Phase One Inc.'s report. To complete this objective, we first collected soil samples in close proximity to and beneath areas where drums and paint cans have been stored, and collected sludge samples from four storm drain inlets. After assessing the analytical results of that sampling, Kleinfelder recommended that the storm drain be cleaned to remove accumulated sludge, soil and water samples be collected from the manmade drainage ditch, and soils be excavated surrounding the storm drain outlet.

To meet these objectives the following tasks were completed:

1. A geophysical survey was completed at each sampling location;

2. A drilling permit was obtained from the Alameda County Flood Control and Water Conservation District - Zone 7;

3. A health and safety plan was prepared (Appendix A);

4. Soil samples were collected from eight soil borings and from soil adjacent to abandoned drums. One water sample was collected from the storm drain outlet;

5. Sludge samples were collected from four storm drain inlets;

6. The storm drain was cleaned;

7. Water and sludge samples derived from the storm drain cleaning were analyzed;

8. Soil and water samples from the manmade drainage ditch were sampled and analyzed;

9. Soil at the storm drain outlet and along the manmade drainage ditch was excavated and excavation confirmation samples were collected; and

10. This report was prepared summarizing the work completed to date with analytical results.

These tasks are further described in the following sections.

TASK 1 - SUBSURFACE INVESTIGATION

The subsurface investigation was comprised of several subtasks including the geophysical survey, drilling of eight soil borings, and collection of four sludge samples. In addition, one surface soil sample was collected adjacent to four abandoned drums and one water sample was collected from standing water directly beneath the outfall of the storm drain outlet. The sampling locations are shown on Plate 2. These tasks are described below.

Geophysical Survey

Before performing on-site drilling, C.U. Surveys conducted a geophysical survey on February 14, 1996 at each proposed boring location to identify underground utilities. C.U. Surveys used electro-magnetic instruments that are sensitive to conductive, inductive, and passive indicators up to a depth of 15 feet. Two of the proposed locations were moved a few feet after the survey because the proposed sampling locations were not accessible due to underground utilities.

Drilling

On February 15, 1996, Gregg Drilling Company drilled eight soil borings (K-2 through K-9) using a SIMCO drill rig. A probe was hydraulically driven to depths of 2 to 4 feet and soils were sampled continuously. Soil types were noted in the field logs. Two soil samples were collected from each location; one just beneath the parking lot asphalt and baserock and one at first encountered native soil. The more shallow sample was submitted for analysis. The top 1.5 to 2.5 feet beneath the asphalt was red brown sandy clay fill material. Native dark gray or brown clay was encountered beneath the fill. Sample locations are shown on Plate 2. Drilling operations are shown in photograph 1 of Appendix B.

Soil samples collected for chemical analysis were capped with Teflon and plastic end caps, labelled, and placed into iced storage before delivery to the laboratory under chain-of-custody control. Each borehole was backfilled with cement to surface grade.

Sampling Storm Drain Inlets

At the four storm drain inlets (CB-1, CB-2, CB-3, CB-4) closest to where McGrath worked on their modular units, sludge samples were collected into glass containers provided by the laboratory. Sludge found at the bottom of the inlets contained dried paint, nails, electric tape, and other debris. Standing water in the four storm drain inlets also had visible oily sheens.

Water Sample Collection at Storm Drain Outlet

One water sample (K-1) was collected from water ponded directly beneath the storm drain outlet at the south end of the site. No soil sample could be collected because of vegetation. Water samples were collected by dipping a sample bottle into pooled water.

Soil Sample Collection at Drums

At the southern end of the site, four empty 55-gallon drums were found abandoned along the railroad tracks. One drum was labelled as being Chevron motor oil; the other drums were not labelled. Of the four drums, three had large rusted holes or their tops missing. One soil sample (K-10) was collected between the drums by scraping the top two inches of soil off the ground and driving a brass sample tube by hand into undisturbed soil.

Chemical Analysis

In the subsurface investigation task, nine soil samples, four sludge samples, and one water sample were submitted under chain-of-custody control for analysis to McCampbell Analytical (McCampbell), a state certified analytical laboratory. Analyses were chosen based on the material safety data sheets (MSDS) of products stored and used on-site, which were provided to Kleinfelder by McGrath. Based on our MSDS review, the samples were analyzed by the following Environmental Protection Agency (EPA) Test Methods:

- EPA Method 8270 for semi-volatile organic compounds;
- EPA Method 8015/8020 and 5030 for total petroleum hydrocarbons quantified as gasoline (TPH-g); benzene, toluene, ethylbenzene, and xylenes (BTEX);
- Modified EPA Method 8015/3550 for total petroleum hydrocarbons quantified as diesel (TPH-d), motor oil (TPH-mo), ethylene glycol, diethylene glycol, propanol, and propanal;
- EPA Methods 6010 and 239.2 for lead, tin, and zinc; and
- EPA Method 150.1 for pH.

The soil sample collected beneath the four empty drums was analyzed only for semi-volatile compounds, TPH-d and TPH-mo. After receipt of preliminary analytical data, two storm drain inlet samples (CB-1, CB-3) were noted to contain elevated concentrations of zinc (i.e., total zinc

at concentrations greater than 10 times the soluble threshold limit concentration, or STLC). Therefore, samples CB-1 and CB-3 were analyzed using the STLC extraction method. A summary of organic analytical results is provided in Table 1. A summary of metals and pH analytical results is provided in Table 2. The laboratory report and chain-of-custody records are attached in Appendix C.

Analytical Results

Analytical results for Task 1 - Subsurface Investigations, are summarized in Tables 1 and 2. Analytical results show that only a few soil samples contained detectable organic compounds. TPH-g was detected in two of the nine soil samples at concentrations of 1.5 milligrams per kilogram (mg/kg) at boring K-10 and 2.4 mg/kg at boring K-3. The laboratory noted that the chromatograms of the soil and sludge samples did not match a typical TPH-g standard (see Table 1 for explanation). TPH-d, TPH-mo, and di-n-butyl phthalate were detected in the soil sample (K-10) collected from the drum area at concentrations of 1.1 mg/kg, 5 mg/kg, and 0.977 mg/kg, respectively. Toluene was detected at a concentration of 0.57 micrograms per liter (mg/L), which is just above the method detection limit, in the water sample (K-1) collected from the storm drain outlet. In Kleinfelder's opinion, these concentrations of organic compounds are of minimal environmental concern.

TPH-g was detected in the four sludge samples at concentrations ranging from 9.2 mg/kg to 440 mg/kg. BTEX compounds were detected in all four sludge samples at concentrations ranging from 0.014-2.2 mg/kg. Two of the semi-volatile compounds were also detected in one of the sludge samples (CB-2).

Lead was detected in the soil, water, and sludge samples at concentrations commonly considered background for native soils from the Bay Area, and well below established United States EPA Preliminary Remediation Goals (PRG) for soils in a residential setting. Tin was detected at low concentrations in two of the four sludge samples. Zinc was detected in the soil samples at moderate levels. Sludge samples, however, contained elevated levels of zinc, but below the residential PRG and California Code of Regulations (CCR) hazardous levels. The water sample collected from the storm drain outlet contained zinc at concentrations that exceeded the PRG for tap water, the California Maximum Contaminant Level (MCL) for drinking water, and State water quality objectives.

TASK 2 - STORM DRAIN CLEANING

On April 14 through 20, 1996, First Environmental Group (FEG), subcontracted by Kleinfelder, cleaned the storm drain at the western portion of the site. The section of the storm drain (approximately 1,100 linear feet) that was cleaned is shown on Plate 2. Sludge and debris in the storm drain were cleaned out by hydroblasting, with high pressure water through an array of very small holes on a Sputnick™ cleaning nozzle, a probe extended onto a water hose, and pushing and pulling the Sputnick through the storm drain. As the sludge was pushed out of the storm

drain, a vacuum truck vacuumed the sludge, water, and other debris into a solid waste box. From the solid waste box, water was transferred into five 6,500 gallon polyethylene storage tanks. Photographs 2 and 3 in Appendix B show the storm drain cleaning and a solid waste box receiving the vacuumed waste.

Approximately 30,000 gallons of water and 30 cubic yards of sludge were generated during the leaning of the storm drain. On April 30, 1996, samples of the water and sludge were collected for analysis and analyzed by McCampbell. The analytical results for Task 2 - Storm Drain Cleaning are summarized in Table 3. The water samples were collected from each tank by lowering a new disposable bailer into each of the five storage tanks (T-1 through T-5) and decanting the water into sample bottles. These five samples were analyzed for zinc using EPA test method 6010. In addition, the five water samples were composited into one sample at the laboratory and analyzed for the following compounds:

- EPA Method (modified) 8015 for (TPH-g);
- EPA Method 8020 for BTEX;
- EPA Method 9010 for cyanide;
- EPA Method 420.1/9065 for phenolics; and
- EPA Method 6010 for arsenic, cadmium, copper, lead, mercury, nickel, selenium, silver, total chromium, and zinc.

Samples of the sludge were collected from the two roll-off bins (T-6 and T-7), each storing approximately 15 cubic yards of sludge and water. Sludge samples were collected from each bin using a pond sampler, an EPA-approved sampling device, consisting of a wide-mouth sample bottle attached to a flexible plastic pipe. The pond sampler was lowered into both ends of each bin to scoop sludge into sample bottles. The two samples from each bin (T-6a and T-6b, T-7a and T-7b) were composited at the laboratory and were analyzed for zinc using EPA Method 6010.

The analytical report and chain-of-custody records are attached in Appendix A. Analytical results show that water collected in three of the five storage tanks contain zinc concentrations at or above the PRG level of 11 mg/L. The Oro Loma Sanitary District (OLSD) accepts water with zinc concentrations less than 3 mg/L into their sanitary sewer line; water in all the tanks exceeded OLSD zinc concentrations. Concentrations of other metals and the TPH-g concentrations were within the acceptable levels for OLSD disposal. Cyanide and phenolics were not detected. However, BTEX concentrations were higher in the composite water sample than the OLSD

acceptable level (non-detect). Zinc concentrations in the sludge from the bins were below the CCR hazardous levels for TTLC (5,000 mg/kg) and STLC (250 mg/L).

Management of Residuals in Storm Drain Cleaning

The storm drain cleaning activities generated approximately 30,000 gallons of liquids and 30 cubic yards of sludge, as described above. Kleinfelder presented several options to McGrath for disposal/treatment of these residuals as non-hazardous wastes. For the liquids, McGrath selected on-site treatment to reduce zinc and BTEX concentrations to levels acceptable for sewer discharge. The selected option for sludge was off-site disposal.

Kleinfelder prepared a sewer discharge permit application on behalf of McGrath for treated water, and obtained a discharge permit from OLSD. Copies of the application and permit are enclosed in Appendix D.

McGrath then contracted with Erickson Inc., an on-site wastewater treatment contractor, to perform treatment, sampling, analysis, and discharge of liquids in the tanks. Erickson and Kleinfelder devised a lime-based chemical precipitation process to remove soluble zinc below the OLSD limit of 3 mg/L. Erickson began treating the water on May 17, 1996. On that date, they slurried pre-determined weights of lime into solution and added the slurried lime mixture into each tank. The lime-treated tanks were allowed to stand for several days.

On May 20 and 21, 1996, lime-treated water was filtered using a plate and frame filter press with a diatomaceous earth pre-coat, to remove precipitated zinc. Immediately following the filter press, water was treated with granular activated carbon to remove TPH-g and BTEX to the OLSD limit of non-detect.

A photograph of the wastewater treatment operation is shown as photograph # 5 in Appendix B. Treated water then was accumulated into two 20,000 gallon holding tanks pending analysis. Erickson then sampled the treated water, and analyzed for zinc and TPH-g/BTEX using EPA-approved analytical methods and a laboratory certified in California for the selected analyses. Samples of treated water contained no detectable TPH-g/BTEX or zinc above laboratory reporting limits. Analytical results for samples of treated water are summarized in Table 3.

Erickson's treated water analytical results (included in Appendix C) were faxed to Ms. Susan Keach of OLSD. OLSD then authorized discharge of the treated water after compliance with the sewer permit limits was confirmed by the analytical results. Erickson then discharged the treated water through the sewer maintenance hole on Phil Drive (the location approved by OLSD), at an estimated flow rate of 100 gallons per minute on May 23, 1996.

After water treatment, the five poly tanks were found to contain up to three feet of silt and sediment from the storm drain cleaning activities. Erickson therefore pumped the silt and sediment out of the poly tanks on May 21 through 23, using a vacuum truck; the material from the tanks was transferred into the two sludge bins already on-site. While pumping, Erickson cleaned each of the poly tanks to the satisfaction of the tank rental company.

On June 20, 1996, Erickson pumped approximately 3,500 gallons of free liquids from the two sludge bins using a vacuum truck. This water was transported as non-hazardous waste to Evergreen in Newark, California. (Please refer to Appendix E for disposal documentation.) The two sludge bins were off-hauled on June 25, 1996 by FEG to the McKittrick (Class II) disposal site. (At the time this draft report was prepared, disposal documentation for sludge was not available.)

TASK 3 - DRAINAGE DITCH SAMPLING AND STORM DRAIN OUTLET EXCAVATION SAMPLING

Storm drain → led to Drainage ditch

Drainage Ditch Sampling

On March 29 and April 17, 1996, 6 soil samples and 2 water samples were collected from the manmade ditch which runs parallel to the south fence approximately 8 feet north of the railroad tracks. Plate 2 shows the approximate sample locations. The samples were collected between 10 to 40 feet east and 10 to 20 feet west of the storm drain outfall in the ditch. Soil samples were collected by scraping off the top half inch of soil and hand driving the sample tube into the soil. The surface water samples were collected by lowering a sample container into standing water in the drainage ditch. It should be noted that standing water was evident after precipitation on-site, and there was run-off to the ditch from the storm drain.

The drainage ditch samples were analyzed for TPH-g and BTEX using EPA Methods 8015/8020, zinc using EPA Method 6010, and pH using EPA Method 150.1. TPH-g and BTEX were not detected in any of the soil samples above method detection limits. Only toluene was detected in one of the water (10E) samples at a concentration of 2.3 µg/L. Zinc was detected in the soil samples at concentrations ranging from 69 mg/kg to 2,900 mg/kg. Table 4 summarizes the analytical results, and the analytical reports and chain-of-custody records are attached in Appendix C.

Based on the zinc concentrations found in the drainage ditch, further investigation was performed on May 28, 1996. This investigation continued soil and water sampling along the drainage ditch to the west. The sample locations ranged from 30 feet to 300 feet west of the storm drain outlet. Eight soil samples (analyzed for zinc by EPA Method 6010) were taken from the bottom of the drainage ditch by scraping off the top half inch of soil and hand driving the sample tube into the soil. Two water samples (analyzed for zinc by EPA Method 239.2) were taken by lowering the sample bottles into standing water.

The results from the soil sampling showed a significant drop off in zinc concentrations at approximately 120 feet west of the storm drain outlet. Zinc concentrations in the surface water samples west of the storm drain outlet were 1.8 µg/L at 100 feet, and 1.4 µg/L at 200 feet.

Excavation Sampling

On May 7, 1996, a ten by ten foot area was excavated to an approximate depth of two feet at the storm drain outlet. Plate 2 shows the location of the excavation and Plate 4 shows the excavation outline and sampling locations. Two soil samples were collected from each sidewall and five were collected from the bottom of the excavation by hand driving a sample tube into the soil. In addition, two soil samples were collected from the excavated soil stockpiled in the bin. The two samples from each sidewall and stockpiled soil, as well as the five samples from the excavation bottom were composited at the laboratory (six composite samples total). Photograph 6 in Appendix B shows the excavation at the storm drain outlet, and the five sample points on the excavation floor.

The six excavation samples were analyzed for zinc using EPA Method 6010. The stockpiled soil sample was also analyzed for TPH-g and BTEX using EPA Methods 8015/8020. The sidewall, bottom samples, and the stockpiled soil contained zinc at concentrations ranging from 100 mg/kg to 260 mg/kg, well below PRG and TTLC levels. Analytical results are summarized in Table 5. The laboratory report and chain-of-custody records are attached in Appendix C.

Based on the analytical results from Task 3 sampling, continued assessment was conducted through excavation and sampling of the drainage ditch extending west of the storm drain outlet. The description of field activities and sampling results are presented in the following section.

Following is a chronological list of events and conversations which led to the ditch excavation and assessment:

- On June 3, 1996, Alan Gibbs, Dan Carroll, Roxy Barnett, all of Kleinfelder, discussed the site with Mark Johnson and Ravi Arulanantham of the RWQCB. The site address was not disclosed (yet) at the time of this conversation.

- On June 18, 1996, Alan Gibbs talked with Lee Schaffert of OLSD and discussed the excavation site as possibly being on their property and not Alameda County. Site/parcel maps were faxed to OLSD.

- On June 19, 1996, Alan Gibbs met with Mike Cortez, Assistant Engineer with OLSD. A copy of our Draft Report dated May 15, 1996 was provided. We walked the job site and discussed the scope of work. Mr. Cortez said he required a release from McGrath for future liability

and a statement from Kleinfelder that work would be performed according to regulatory guidelines.

- On June 20, 1996, Alan Gibbs talked with Mark Johnson of the RWQCB, who requested the draft report and a work plan prior to excavation. This information was couriered to him.

- Also on June 20, 1996, Alan Gibbs talked with Ms. Madhulla Logan of the Alameda County Health Agency (ACHA), who also requested a copy of existing draft report, work plan, and $900 for mitigation. A copy of the reports and check were sent to her on June 20 and 21, 1996, respectively.

- On June 20 and 21, 1996, Erickson and SUT's were contracted to provide bids for excavation and disposal; this work commenced on Monday, June 24, 1996.

TASK 4 - DRAINAGE DITCH EXCAVATION AND SAMPLING

On June 24, 1996, the drainage ditch, which extends to the west of the storm drain outlet, was excavated to a depth of approximately 1 foot below existing grade along a length of 125 feet running west of the storm drain outlet, as shown on Plate 4. The excavation was performed by Superior Underground Tank Service (SUT's) and by Erickson, with oversight and sampling performed by Kleinfelder. Kleinfelder's senior program biologist, Roxy Barnett, was on-site for the duration of the excavation. The first 90 feet west of the storm drain outlet was excavated by SUT's using a backhoe. From 90 feet to 125 feet, manual excavation was performed with hand tools by Erickson. (Manual excavation was utilized to decrease the impact to the ditch and areas surrounding the ditch.) Following the excavation, soil samples were taken at measured intervals along the ditch, as described below. These samples were analyzed for zinc by McCampbell. Photographs 7 and 8 (Appendix B) show the excavated drainage ditch looking both west and east, respectively.

Sample Collection and Chemical Analysis

On June 24, 1996, soil samples were collected at eight locations after completion of excavation, using 10 to 20 feet intervals from the storm drain outlet along the excavated ditch. Four soil samples were taken from each distance interval. Of these two soil samples, two soil samples were taken from the floor of the excavation, and one soil sample was taken from each sidewall of the excavation. The two floor soil samples were composited by McCampbell, as were the two sidewall soil samples. Each sample was collected by hand driving a brass or stainless steel tube into the undisturbed soil. The tubes were then capped and labeled properly. Once composited, the samples were analyzed for zinc by EPA Methods 6010/200.7. A summary of the post-drainage ditch excavation analytical results is provided in Table 6. The laboratory report and chain-of-custody records are attached in Appendix C.

Analytical Results

A review of the soil sampling results (16 samples) indicated an arithmetic mean zinc concentration of 103 mg/kg and a geometric mean zinc concentration of 94 mg/kg. The geometric mean is statistically a more representative value for the average zinc concentration. These concentrations are indicated to be at levels comparable to the background soil samples collected at the McGrath site, below the levels of concern for human health, and appear not to represent a threat to the environment; however, an environmental assessment report summarizing the findings will follow this report.

On May 28, 1996, Kleinfelder requested McCampbell re-analyze sludge sample CB-1 and soil sample KB-W30 for zinc speciation. This additional task was recommended by Mark Johnson of the RWQCB. Mr. Ed. Hamilton of McCampbell, therefore, performed a series of three extractions on these samples:

- A 1:1 extraction using deionized (DI) water, rotated for 18 hours;
- Using the solids after DI water extraction, mixed 1:1 with an unbuffered pH 4.0 solution for extraction; and
- Remaining solids from step two were then subjected to the TTLC extraction procedure.

Extracts from each step above were analyzed for zinc and selected inorganic constituents.

Sediment and plants then were separated visually from the KB-W30 soil sample and analyzed separately for zinc by TTLC. These analyses will be discussed in the environmental assessment to be submitted under separate cover. Analytical results are enclosed in Appendix C.

Disposal of Excavated Soils

Excavated soils were stored in four roll-off boxes and amounted to approximately 60 yards. Soil was transported by Erickson to Redwood Landfill, Inc.

4.0 CONCLUSIONS AND RECOMMENDATIONS

The following conclusions are derived from field observations, analytical results, and Kleinfelder's interpretation of regulations for acceptable levels of chemical compounds.

Subsurface Investigation

Shallow soils in the vicinity of the drilled boreholes and adjacent to the drums do not appear to be significantly impacted, based on field observations and analytical results.

Sludge samples collected from the four storm drain inlets contained moderate levels of petroleum hydrocarbons and elevated levels of zinc; however, the STLC concentration of zinc in sludge samples CB-1 and CB-3, the samples with the highest zinc concentrations, did not exceed the California Code of Regulations (CCR)-STLC concentration. The sludge was removed from the storm drains and no longer presents an environmental concern.

The water sample collected at location K-1 (beneath the storm drain outlet) contained toluene at 0.57 µg/L and zinc at 35 mg/L. Screening these values against surface water quality goals identified zinc, but not toluene, as a compound present at a concentration of potential concern. California's water quality objectives for zinc in inland surface waters and enclosed bays and estuaries vary with the hardness of the water. The zinc concentration in the sample from location K-1 exceeded these values. This indicates a potential for concern, but does not indicate that adverse effects are necessarily occurring, particularly considering that zinc is readily absorbed by clayey soils and organic matter, specifically in the vegetation found at the site [Alloway, B.J., 1990, Heavy Metals in Soils]. However, the source of the zinc has been removed by cleaning out the storm drain; the area where the water sample was collected, and the drainage ditch were excavated.

An environmental assessment report will follow this report, which will assess the results of the drainage ditch excavation. This document will be a data support document only, as Kleinfelder feels no further assessment is warranted for this site.

Storm Drain Cleaning

The storm drain has been cleaned out. Kleinfelder collected samples of the water and sludge that were generated during the cleaning of the storm drain.

Manmade Drainage Ditch Sampling

Zinc concentrations in sediments from the drainage ditch in the eastward direction indicated an abrupt decrease from 1,200 mg/kg, 10 feet east of the storm drain outlet to 69 mg/kg, 40 feet east of the outlet. Zinc concentrations in sediments 10 feet to 150 feet west of the outlet were 1,400 mg/kg and 130 mg/kg, respectively. Based on these results, the trench was excavated from 0 to 120 feet west and impacted soils removed.

Zinc concentrations in the water samples decreased from 0.27 mg/L at a 10 foot distance east from the outlet to 0.086 mg/L at the 20 foot distance from the outlet.

Zinc concentrations in the soils (before ditch excavation) were well below PRG and TTLC concentrations. The zinc concentration in the water sample collected 10 feet west of the outlet was below the 11 mg/L PRG level for tap water, but appeared to be above Regional Water Quality Control Board water goals for enclosed bays and estuaries and freshwater and aquatic life protection (from 0.049 to 0.095 mg/L). As noted earlier, standing water was only evident during periods of precipitation, and there was runoff to the ditch from the storm drain. Now that the source of zinc has been removed; we believe that zinc is no longer a concern.

Kleinfelder concludes the site has been cleaned up for the chemical constituents of concern and that no further environmental action is warranted at this time.

Kleinfelder recommends that this report be sent to the following agencies:

Mr. Mark Johnson
Regional Water Quality Control Board
2101 Webster Street, 5th Floor
Oakland, California 94612

Ms. Madhulla Logan
Alameda County Department of Environmental Health
Hazardous Materials Division
1131 Harbor Bay Parkway, Second Floor
Alameda, California 94502

Alameda County Flood Control Water Conservation District - Zone 7
5997 Parkside Drive
Pleasanton, California 94588-5127

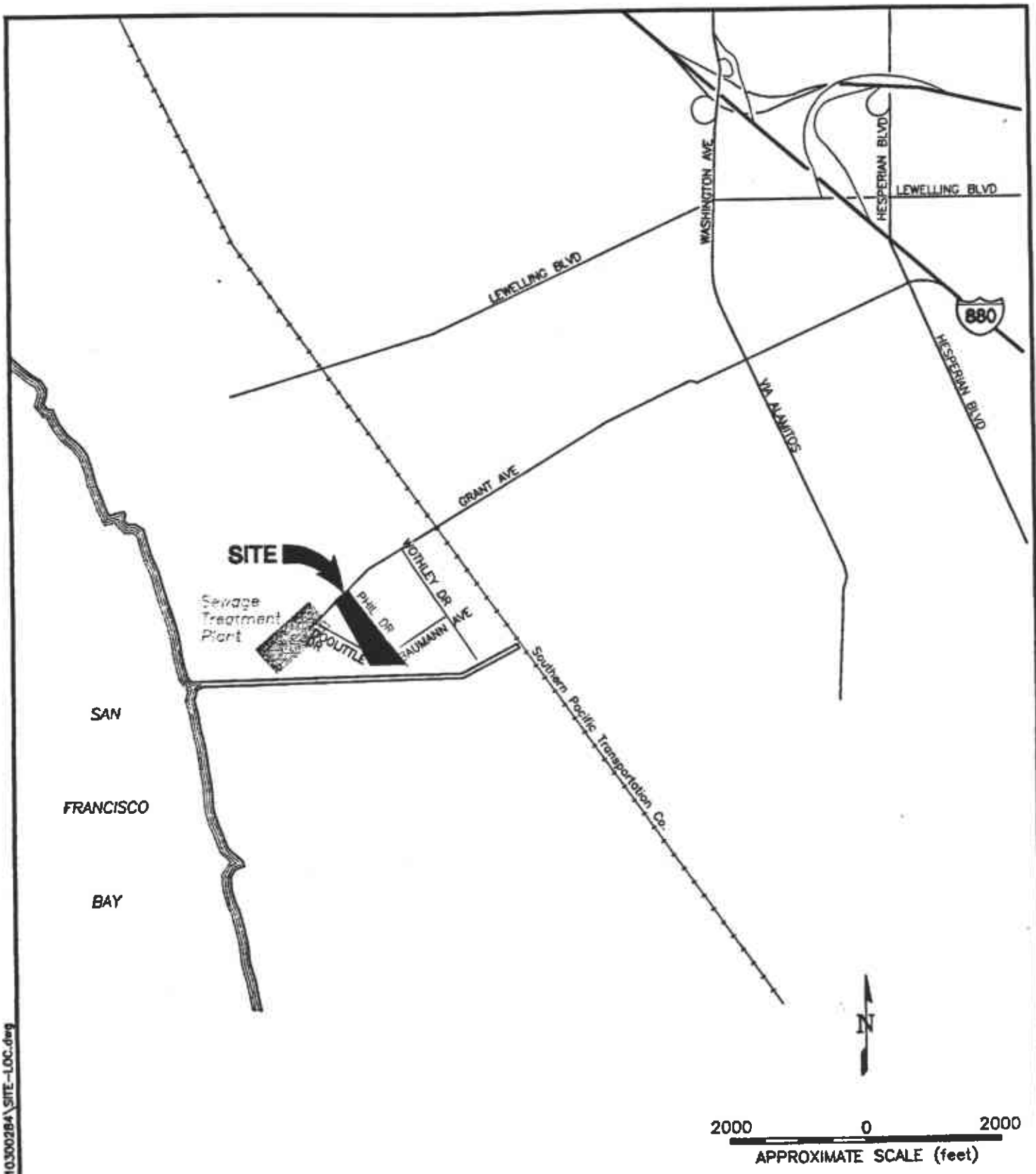
Mr. Mike Cortez
Oro Loma Sanitary District
2600 Grant Avenue
San Lorenzo, California 94580

5.0 LIMITATIONS

This report was prepared in general accordance with the accepted standard of practice which exists in Northern California at the time the investigation was performed. It should be recognized that definition and evaluation of environmental conditions is a difficult and inexact art. Judgements leading to conclusions and recommendations are generally made with an incomplete knowledge of the conditions present. More extensive studies, including additional environmental investigations, can tend to reduce the inherent uncertainties associated with such studies. If the Client wishes to reduce the uncertainty beyond the level associated with this study, Kleinfelder should be notified for additional consultation.

Our firm has prepared this report for the Client's exclusive use for this particular project and in accordance with generally accepted engineering practices within the area at the time of our investigation. No other representations, expressed or implied, and no warranty or guarantee is included or intended.

This report may be used only by the Client and only for the purposes stated, within a reasonable time from its issuance. Land use, site conditions (both onsite and offsite) or other factors may change over time, and additional work may be required with the passage of time. Any party other than the Client who wishes to use this report shall notify Kleinfelder of such intended use. Based on the intended use of the report, Kleinfelder may require that additional work be performed and that an updated report be issued. Non-compliance with any of these requirements by the Client or anyone else will release Kleinfelder from any liability resulting from the use of this report by any unauthorized party.



KLEINFELDER

DRAFTED BY: L. Sue	DATE: 5-14-96
CHECKED BY: K. Scheller	DATE: 5-15-96

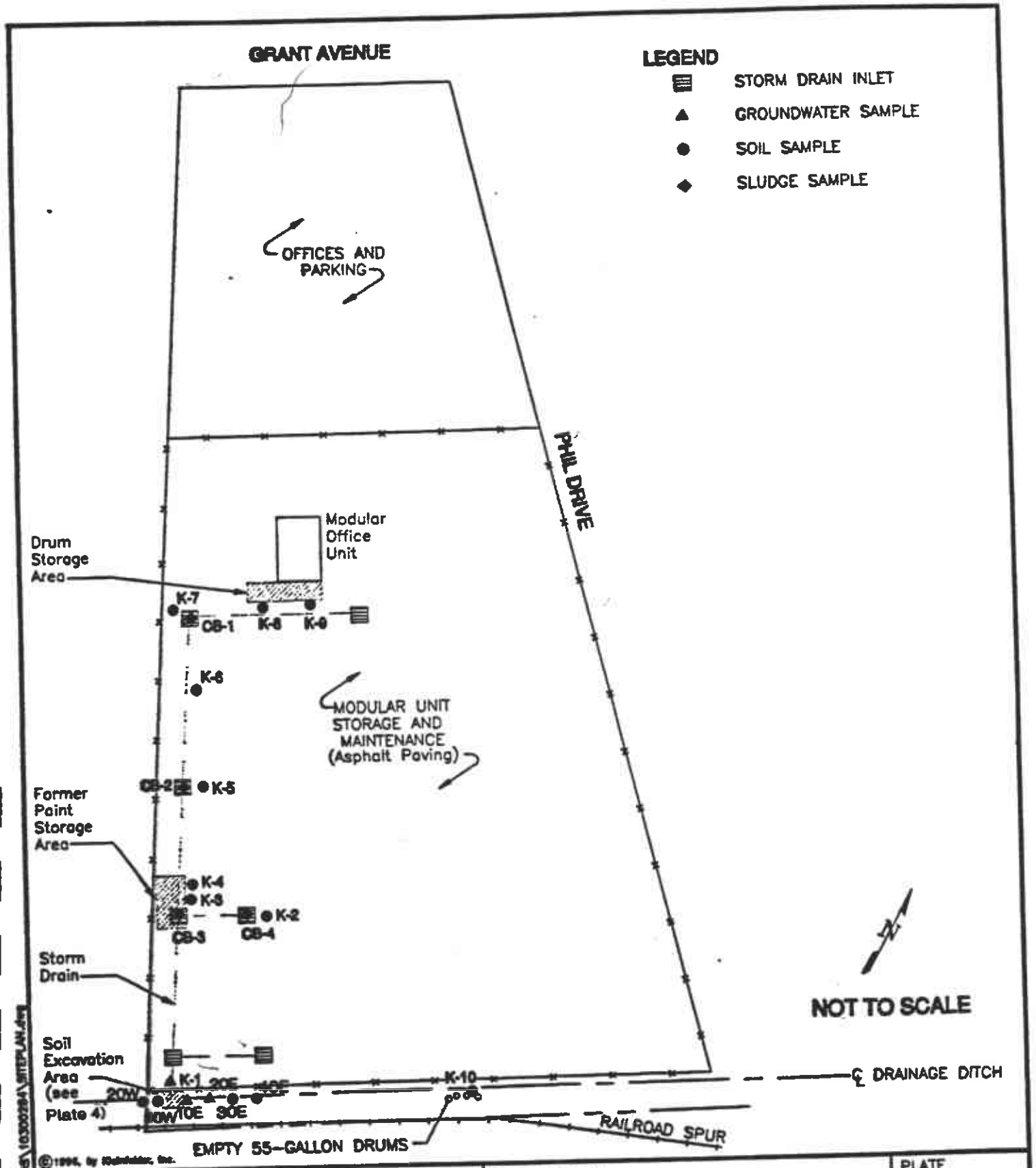
SITE LOCATION MAP

McGRATH RENT CORP.
2500 GRANT AVENUE
SAN LORENZO, CALIFORNIA

PROJECT NO. 10-300284-003

PLATE 1

CAD FILE: C:\-KA_PROJ\PLEAS\10300284\SITE-LOC.dwg



KLEINFELDER

DRAFTED BY: L. Sue	DATE: 5-14-96	SITE PLAN McGRATH RENT CORP. 2500 GRANT AVENUE SAN LORENZO, CALIFORNIA	PLATE 2
CHECKED BY: K. Scheller	DATE: 5-15-96	PROJECT NO. 10-300284-003	

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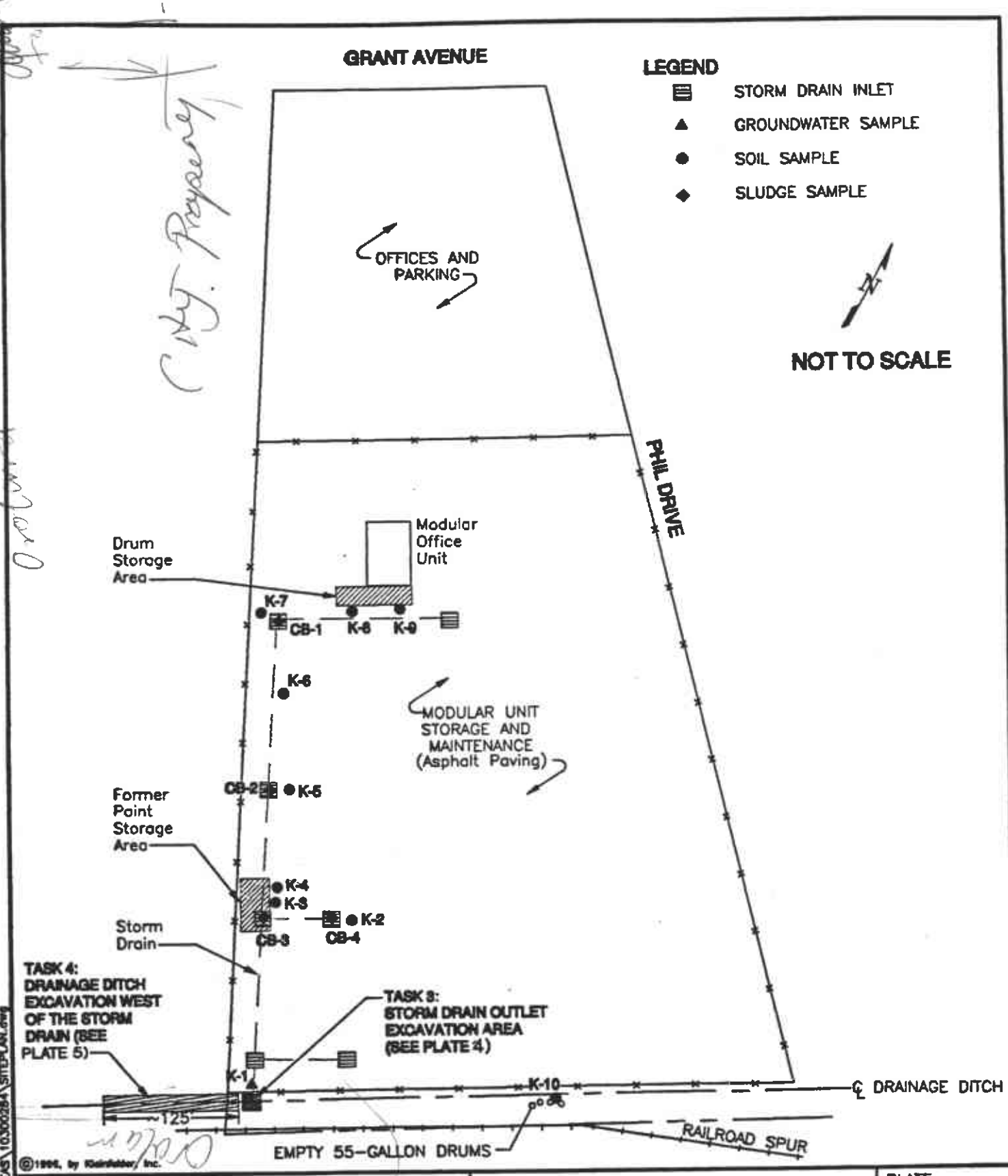
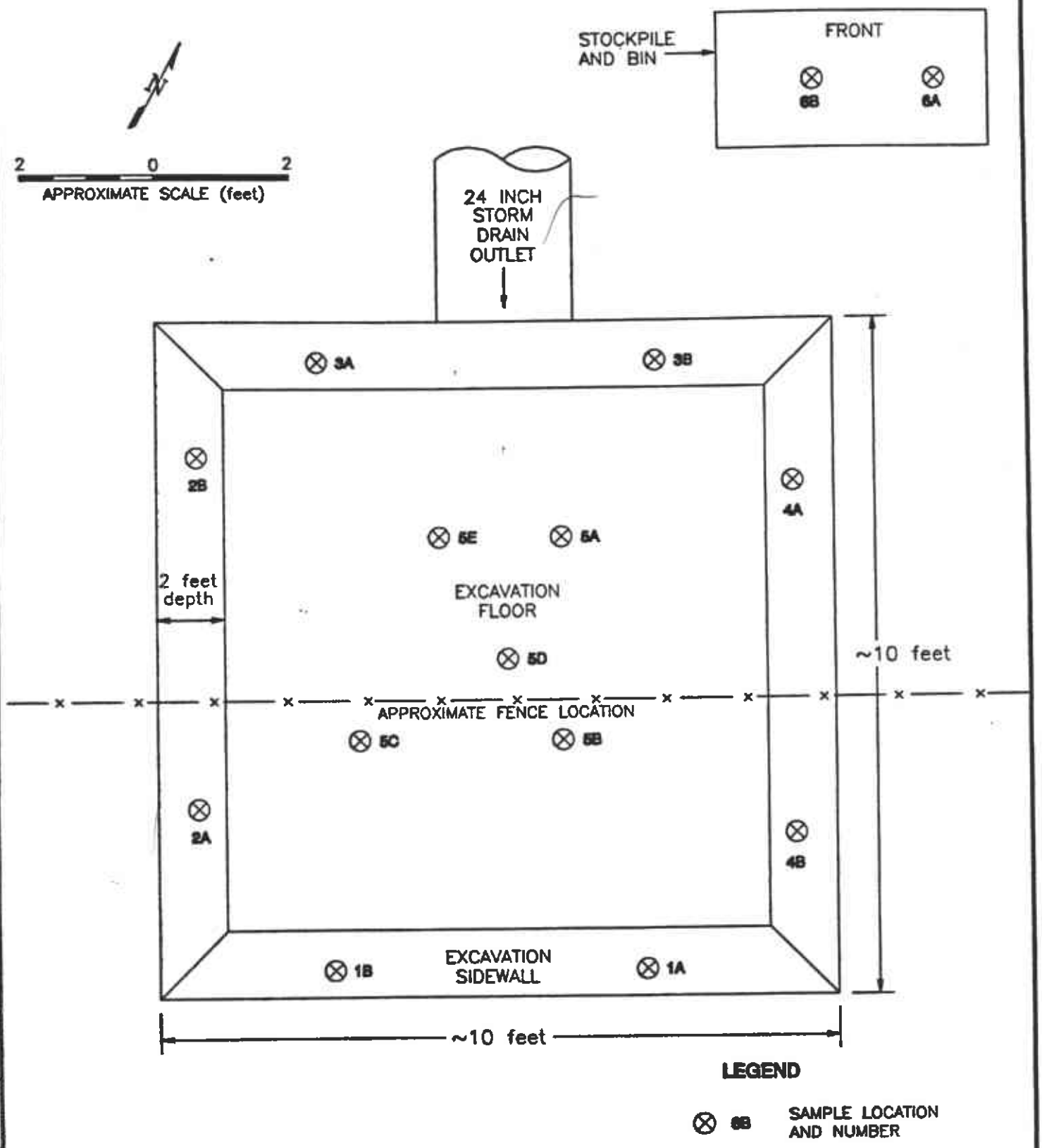


KLEINFELDER

DRAFTED BY: L. Sue	DATE: 6-26-96	SITE PLAN McGRATH RENT CORP. 2500 GRANT AVENUE SAN LORENZO, CALIFORNIA	PLATE 3
CHECKED BY: A. Gibbs	DATE: 6-26-96	PROJECT NO. 10-300284	

DWG FILE: C:\-KA_PROJ\PLEAS\10300284\SITEPLAN.dwg



KLEINFELDER

DRAFTED BY: P. Derkos DATE: 5-14-96

CHECKED BY: A. Gibbs DATE: 6-26-96

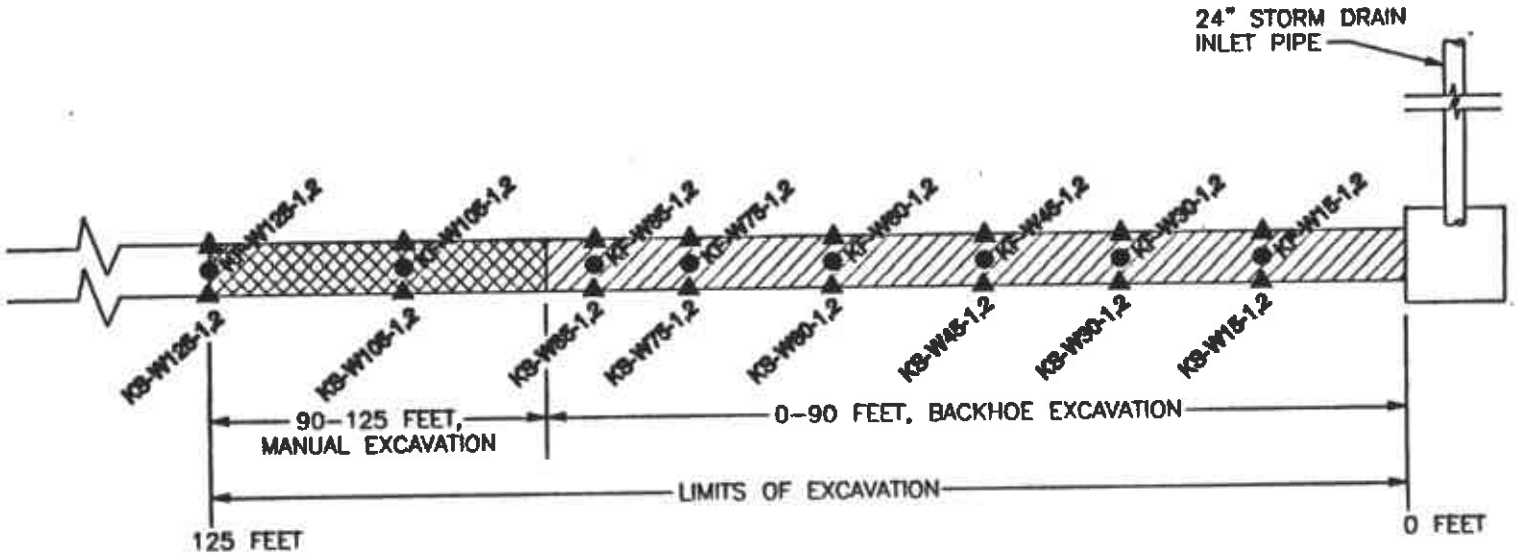
TASK 3: EXCAVATION AND SAMPLE LOCATIONS

McGRATH RENT CORP.
2500 GRANT AVENUE
SAN LORENZO, CALIFORNIA

PROJECT NO. 10-300284

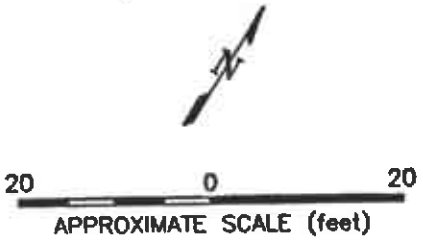
PLATE 4

DWG FILE: C:\-KA_PROJ\PLEAS\10300284\EXPLAN.dwg



LEGEND

- ● COMPOSITE OF TWO SAMPLES TAKEN FROM THE FLOOR OF THE EXCAVATION
- ▲ COMPOSITE OF TWO SAMPLES TAKEN FROM EACH SIDE OF THE EXCAVATION



NOTE:
EXCAVATION DEPTH WAS APPROXIMATELY 1 FOOT.

KLEINFELDER

DRAFTED BY: L. Sue	DATE: 6-26-96
CHECKED BY: A. Gibbs	DATE: 6-26-96

TASK 4: EXCAVATION AND SAMPLE LOCATIONS

McGRATH RENT CORP.
2500 GRANT AVENUE
SAN LORENZO, CALIFORNIA

PROJECT NO. 10-300284

PLATE 5

TABLES

DRAFT

Table 1
Summary of Organic Analytical Results - Subsurface Investigation (Task 1)
February 15, 1996
McGrath Rent Corp.

Sample Location	Sample Matrix	TPHg	TPHd	TPHmo	Benzene	Toluene	Ethylbenzene	Xylenes	Ethylene Glycol	Diethylene Glycol	Propanal	Propanol	8270
Units:	Soil/Sludge Water	mg/kg µg/L	mg/kg µg/L	mg/kg µg/L	µg/kg µg/L	µg/kg µg/L	µg/kg µg/L	µg/kg µg/L	mg/kg mg/L	mg/kg mg/L	mg/kg mg/L	mg/kg mg/L	mg/kg µg/L
K-1	Water	<50	--	--	<0.5	0.57	<0.5	<0.5	<1	<1	<1	<1	ND
K-2	Soil	<1	--	--	<5	<5	<5	<5	<1	<1	<1	<1	ND
K-3	Soil	2.4 (a)	--	--	<5	<5	<5	<5	<1	<1	<1	<1	ND
K-4	Soil	<1	--	--	<5	<5	<5	<5	<1	<1	<1	<1	ND
K-5	Soil	<1	--	--	<5	<5	<5	<5	<1	<1	<1	<1	ND
K-6	Soil	<1	--	--	<5	<5	<5	<5	<1	<1	<1	<1	ND
K-7	Soil	<1	--	--	<5	<5	<5	<5	<1	<1	<1	<1	ND
K-8	Soil	<1	--	--	<5	<5	<5	<5	<1	<1	<1	<1	ND
K-9	Soil	<1	--	--	<5	<5	<5	<5	<1	<1	<1	<1	ND
K-10	Soil	1.5 (b)	1.1	5.0	<5	<5	<5	<5	<1	<1	<1	<1	0.977, e
CB-1	Sludge	130 (b,c)	--	--	190	110	290	1,400	<1	<1	<1	<1	ND
CB-2	Sludge	20 (a)	--	--	450	53	430	1,400	<1	<1	<1	<1	12 + 16, f
CB-3	Sludge	440 (d)	--	--	2,200	<5	<5	470	<1	<1	<1	<1	ND
CB-4	Sludge	9.2 (b)	--	--	110	14	36	120	<1	<1	<1	<1	ND

Notes:

TPH - Total petroleum hydrocarbons quantified as gasoline (g), diesel (d), and motor oil (mo).

mg/kg - Milligrams per kilogram, approximately equivalent to parts per million.

µg/kg - Micrograms per kilogram, approximately equivalent to parts per billion.

mg/L - Milligrams per liter, approximately equivalent to parts per million.

µg/L - Micrograms per kilogram, approximately equivalent to parts per billion.

ND - Not detected at or above laboratory reporting limits, which vary for the various EPA 8270 compounds. See laboratory sheets for each limit.

a - Strongly aged gasoline or diesel range compounds are significant.

b - Heavier gasoline range compounds are significant (aged gasoline?).

c - One to a few isolated peaks present.

d - TPH pattern that does not appear to be derived from gasoline (mineral spirits/stoddard solvent).

e - Di-n-butyl phthalate detected at 0.977 mg/kg.

f - Butyl benzyl phthalate detected at 12 mg/kg; bis(2-ethylhexyl) phthalate detected at 16 mg/kg.

DRAFT

Table 2
Summary of Metals and pH Analytical Results - Subsurface Investigation (Task 1)
February 15, 1996
McGrath Rent Corp.

Sample Location	Sample Matrix Soil/Sludge Water	Lead mg/kg mg/L	Tin mg/kg mg/L	Zinc (TTLC) mg/kg mg/L	Zinc (STLC) mg/kg mg/L	pH
K-1	Water	0.20	<0.10	35	--	7.33
K-2	Soil	16	<5.0	95	--	7.75
K-3	Soil	11	<5.0	94	--	7.89
K-4	Soil	11	<5.0	86	--	7.42
K-5	Soil	32	<5.0	100	--	10.53
K-6	Soil	9.2	<5.0	130	--	7.68
K-7	Soil	10	<5.0	88	--	7.60
K-8	Soil	5.4	<5.0	140	--	7.42
K-9	Soil	11	<5.0	170	--	7.34
CB-1	Sludge	21	6.8	2,700	110	7.31
CB-2	Sludge	38	10	1,300	--	7.50
CB-3	Sludge	4.5	<5.0	2,900	67	7.37
CB-4	Sludge	9.4	<5.0	470	--	7.60
TTLC (mg/kg)		1,000	none	5,000	--	<2 or >12.5
STLC (mg/L)		5	none	--	250	--
Residential PRG (soil) (mg/kg)		400	46,000	23,000	--	--
Tap Water PRG (mg/L)		0.004	22	11	--	--

Notes:

Soil and sludge in milligrams per kilogram (mg/kg), similar to parts per million.

Water in milligrams per liter (mg/l), similar to parts per million.

TTLC - Total threshold limit concentration, California Code of Regulations (CCR) Title 22, Section 66261.

STLC - Soluble threshold limit concentration, 22 CCR 66261.

PRG - US EPA Region IX preliminary remediation goal for soil in a residential setting and for tap water.

-- Sample not analyzed for that constituent or parameter.

<0.10 Where the analyte was not detected, the laboratory reporting limit is shown.

DRAFT

Table 3
Analytical Results for Rinse Water, Treated Water, and Sludge (Task 2)
April 30, 1996
McGrath Rent Corp.

Sample Location	Sample Number	INORGANIC COMPOUNDS										ORGANIC COMPOUNDS						
		Arsenic	Cadmium	Chromium	Copper	Lead	Nickel	Selenium	Silver	Zinc (TTLC)	Zinc (STLC)	Cyanide	Phenols	TPHg	B	T	E	X
Units:	Sludge	--	--	--	--	--	--	--	--	mg/kg	mg/L	--	--	--	--	--	--	--
	Water	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	--	mg/L	mg/L	mg/L	µg/L	µg/L	µg/L	µg/L
Water Tank 1	T1	--	--	--	--	--	--	--	--	31	--	--	--	--	--	--	--	--
Water Tank 2	T2	--	--	--	--	--	--	--	--	11	--	--	--	--	--	--	--	--
Water Tank 3	T3	--	--	--	--	--	--	--	--	9.2	--	--	--	--	--	--	--	--
Water Tank 4	T4	--	--	--	--	--	--	--	--	28	--	--	--	--	--	--	--	--
Water Tank 5	T5	--	--	--	--	--	--	--	--	9.9	--	--	--	--	--	--	--	--
Composite	T1 - T5	<0.005	<0.01	0.025	0.045	<0.005	0.033	<0.005	<0.01	14	--	<0.02	<0.05	1.3	26	98	45	300
Sludge Bin # 1	T6A-T6B	--	--	--	--	--	--	--	--	3,800	63	--	--	--	--	--	--	--
Sludge Bin # 2	T7A-T7B	--	--	--	--	--	--	--	--	4,500	79	--	--	--	--	--	--	--
Treated Water		--	--	--	--	--	--	--	--	<0.01	--	--	--	<0.05	<0.5	<0.5	<0.5	<0.5
OLSD Discharge Limits		0.8	0.2	2.0	0.5	1.0	1.0	1.0	0.8	3.0	--	1.0	70	NA	ND	ND	ND	ND
TTLC (mg/kg)		500	100	500	2,500	1,000	2,000	100	500	5,000	--							
STLC (mg/L)		5	1	5	25	5	20	1	5	--	250							

Notes:

-- = Not analyzed for that constituent or parameter.

Sludge in milligrams per kilogram (mg/kg), similar to parts per million

Water in milligrams per liter (mg/l), similar to parts per million

TTLC - Total threshold limit concentration, California Code of Regulations (CCR) Title 22, Section 66261

STLC - Soluble threshold limit concentration, 22 CCR 66261

<0.01 Where the analyte was not detected, the laboratory reporting limit is shown

T1 - T5 Samples from each of the five tanks were composited for analysis by the laboratory

T6A-T6B / T7A-T7B Two samples of sludge were collected and composited for analysis by the laboratory

TPH - Total petroleum hydrocarbons quantified as gasoline (g).

B, T, E, X - Benzene, Toluene, Ethylbenzene, and Xylenes (gasoline constituents)

DRAFT

Table 4
Summary of Analytical Results - Man-Made Drainage Ditch Sampling (Task 3)
March 29, 1996, April 17, 1996, and May 28, 1996
McGrath Rent Corp.

Sample Number	Sample Date	Sample Location	Sample Matrix	Zinc	TPHg	Benzene	Toluene	Ethylbenzene	Xylenes	pH
Units:			Soil Water	mg/kg mg/L	mg/kg ug/L	µg/kg ug/L	µg/kg ug/L	µg/kg ug/L	µg/kg ug/L	
10E	3/29/96	10 feet East of outfall pipe	Water	0.27	<50	<0.5	2.3	<0.5	<0.5	–
20E	3/29/96	20 feet East of outfall pipe	Water	0.086	<50	<0.5	<0.5	<0.5	<0.5	–
20E	3/29/96	20 feet East of outfall pipe	Soil	270	<1.0	<5	<5	<5	<5	–
20W	3/29/96	20 feet West of outfall pipe	Soil	2,900	<1.0	<5	<5	<5	<5	–
10W	3/29/96	10 feet West of outfall pipe	Soil	1,400	<1.0	<5	<5	<5	<5	–
10E	3/29/96	10 feet East of outfall pipe	Soil	1,200	<1.0	<5	<5	<5	<5	–
E30	4/17/96	30 feet East of outfall pipe	Soil	100	<1	<5	<5	<5	<5	–
E40	4/17/96	40 feet East of outfall pipe	Soil	69	<1	<5	<5	<5	<5	–
KB-W30	5/28/96	30 feet West of outfall pipe	Soil	2,200	–	–	–	–	–	7.00
KB-W50	5/28/96	50 feet West of outfall pipe	Soil	2,600	–	–	–	–	–	6.84
KB-W75	5/28/96	10 feet West of outfall pipe	Soil	2,800	–	–	–	–	–	6.87
KB-W100	5/28/96	100 feet West of outfall pipe	Soil	1,100	–	–	–	–	–	6.62
KB-W100	5/28/96	100 feet West of outfall pipe	Water	1.8	–	–	–	–	–	6.68
KB-W150	5/28/96	150 feet West of outfall pipe	Soil	130	–	–	–	–	–	6.50
KB-W200	5/28/96	200 feet West of outfall pipe	Soil	93	–	–	–	–	–	7.10
KB-W200	5/28/96	200 feet West of outfall pipe	Water	1.4	–	–	–	–	–	7.00
KB-W250	5/28/96	250 feet West of outfall pipe	Soil	550	–	–	–	–	–	6.62
KB-W300	5/28/96	300 feet West of outfall pipe	Soil	750	–	–	–	–	–	6.75
TTLC (mg/kg)				5,000	–	–	–	–	–	–
STLC (mg/L)				250	–	–	–	–	–	–
Residential PRG (soil) (mg/kg)				23,000	–	–	–	–	–	–

Before digging

There was a lot of debris

Notes:

mg/kg - Milligrams per kilogram, approximately equivalent to parts per million.

µg/kg - Micrograms per kilogram, approximately equivalent to parts per billion.

mg/L - Milligrams per liter, approximately equivalent to parts per million.

µg/L - Micrograms per kilogram, approximately equivalent to parts per billion.

TPH - Total petroleum hydrocarbons quantified as gasoline (g), diesel (d), and motor oil (mo).

TTLC - Total threshold limit concentration, California Code of Regulations (CCR) Title 22, Section 66261.

STLC - Soluble threshold limit concentration, 22 CCR 66261.

PRG - US EPA Region IX preliminary remediation goal for soil in a residential setting.

-- Sample not analyzed for that constituent or parameter.

<0.10 Where the analyte was not detected, the laboratory reporting limit is shown.

DRAFT

Table 5
Summary of Analytical Results - Storm Drain Outlet Excavation (Task 3)
May 7, 1996
McGrath Rent Corp.

Sample Location / Units:	Sample Matrix	Sample Number	Zinc mg/kg	TPHg mg/kg	Benzene µg/kg	Toluene µg/kg	Ethyl-Benzene µg/kg	Xylenes µg/kg
Excavation - South sidewall	Soil	Composite 1 (two-point)	260	--	--	--	--	--
Excavation - West sidewall	Soil	Composite 2 (two-point)	100	--	--	--	--	--
Excavation - North sidewall	Soil	Composite 3 (two-point)	230	--	--	--	--	--
Excavation - East sidewall	Soil	Composite 4 (two-point)	260	--	--	--	--	--
Excavation - Floor	Soil	Composite 5 (five-point)	170	--	--	--	--	--
Excavated Soils (Bin)	Soil	Composite 6 (two-point)	190	1.4	<5	5	<5	8
TTLC (mg/kg)			5,000	--	--	--	--	--
STLC (mg/L)			250	--	--	--	--	--
Residential PRG (soil) (mg/kg)			23,000	--	--	--	--	--

Notes:

mg/kg - Milligrams per kilogram, approximately equivalent to parts per million.

µg/kg - Micrograms per kilogram, approximately equivalent to parts per billion.

TPH - Total petroleum hydrocarbons quantified as gasoline (g), diesel (d), and motor oil (mo).

TTLC - Total threshold limit concentration, California Code of Regulations (CCR) Title 22, Section 66261.

STLC - Soluble threshold limit concentration, 22 CCR 66261.

PRG - US EPA Region IX preliminary remediation goal for soil in a residential setting.

-- Sample not analyzed for that constituent or parameter.

<0.10 Where the analyte was not detected, the laboratory reporting limit is shown.

(four-point) - Four discreet samples were composited for analysis by the analytical laboratory.

Table 6
Summary of Drainage Ditch Analytical Results - Following Excavation (Task 4)
June 24, 1996
McGrath Rent Corp.

Sample Number	Sample Location	Sample Matrix	Zinc (mg/kg)
KF-W15-1,2	Floor Composite 15 Feet West of Drain Pipe	Soil	98
KS-W15-1,2	Side Wall Composite 15 Feet West of Drain Pipe	Soil	120
KF-W30-1,2	Floor Composite 30 Feet West of Drain Pipe	Soil	78
KS-W30-1,2	Side Wall Composite 30 Feet West of Drain Pipe	Soil	94
KF-W45-1,2	Floor Composite 45 Feet West of Drain Pipe	Soil	98
KS-W45-1,2	Side Wall Composite 45 Feet West of Drain Pipe	Soil	170
KF-W60-1,2	Floor Composite 60 Feet West of Drain Pipe	Soil	95
KS-W60-1,2	Side Wall Composite 60 Feet West of Drain Pipe	Soil	74
KF-W75-1,2	Floor Composite 75 Feet West of Drain Pipe	Soil	86
KS-W75-1,2	Side Wall Composite 75 Feet West of Drain Pipe	Soil	83
KF-W85-1,2	Floor Composite 85 Feet West of Drain Pipe	Soil	71
KS-W85-1,2	Side Wall Composite 85 Feet West of Drain Pipe	Soil	79
KF-W105-1,2	Floor Composite 105 Feet West of Drain Pipe	Soil	82
KS-W105-1,2	Side Wall Composite 105 Feet West of Drain Pipe	Soil	67
KF-W125-1,2	Floor Composite 125 Feet West of Drain Pipe	Soil	58
KS-W125-1,2	Side Wall Composite 125 Feet West of Drain Pipe	Soil	300
TTLC (mg/kg)			5,000
STLC (mg/L)			250
Residential PRG (soil) (mg/kg)			23,000

Notes:

mg/kg - Milligrams per kilogram, approximately equivalent to parts per million.

µg/kg - Micrograms per kilogram, approximately equivalent to parts per billion.

TPH - Total petroleum hydrocarbons quantified as gasoline (g), diesel (d), and motor oil (mo).

TTLC - Total threshold limit concentration, California Code of Regulations (CCR) Title 22, Section 66261.

STLC - Soluble threshold limit concentration, 22 CCR 66261.

PRG - US EPA Region IX preliminary remediation goal for soil in a residential setting.

-- Sample not analyzed for that constituent or parameter.

<0.10 Where the analyte was not detected, the laboratory reporting limit is shown.

APPENDIX A
HEALTH AND SAFETY PLAN

KA KLEINFELDER

HEALTH SAFETY PLAN

Project Name: McGrath Rent Corp — Project No. 20-3002-584
Project Manager: Alan Gibbs — Phone No. 510 484-1700
Site Safety Officer: Kristen Scheller — Phone No. 510 484-1700
Prepared By: K. Scheller — Date: 2-13-96 — Reviewed By: Alan Gibbs — Date: 2-13-96

Client Name: McGrath Rent Corp — Contact: Delight Sexton
Client Address: 2500 Grant Ave. San Lorenzo 94580 — Phone: 510 276-2626
Job Location: 2500 Grant Ave San Lorenzo
(See also attached map)
Site Contact: — Phone:

Work Objectives: Drill shallow soil borings (to 2' feet depth), collect soil samples. Collect sludge/water samples from storm drain inlets.

Hospital/Clinic: Eden Hospital — Phone No. 510 537-1234
Hospital Address: 20103 Lake Chabot Rd, Castro Valley
→ → → → Refer to Attached Plate for Route to Hospital ← ← ← ←
Paramedic 911 Fire Dept. 911 Police Dept. 911

Emergency/Contingency Plans & Procedures: Stop work, shut down machinery, and evaluate situation. Apply first aid as necessary, call emergency services or transport to hospital if needed.

15-Minute Eyewash ____ Fire Extinguisher Req'd First Aid Kit Req'd

Emergency Kleinfelder Contacts & Procedure
Kleinfelder Project Manager Alan Gibbs — Phone: 510 484-1700
Kleinfelder Human Resources (Rhoda Carter or Linda Kirkpatrick) (510) 938-5600 — Within 24 hours
Employee and Supervisor complete "Supervisor's Injury/Illness Investigation Report" — Within 24 hours

Site Control Measures: Warn unauthorized people away from work area. Establish a work zone ("exclusion area") as appropriate using barricade tape or traffic cones. Traffic cones shall be used whenever working near traffic rights-of-way and whenever needed.

Decontamination Procedures: Skin that may have come into contact with chemicals or with soil/water with suspected contaminants shall be washed immediately with soap and water. Hands and face shall be thoroughly washed prior to eating, drinking, smoking, or other hand to mouth contact.

KA KLEINFELDER

HEALTH SAFETY PLAN

Project Name: McGrath Rent Corp Project No. D3002-84

Chemical Hazards

Name	Expected Concentration	Health Effects
		See Attached
		none expected

Physical Hazards

___ Heat	✓ Slip, Trip, Fall	___ Excavations/Trenches	
___ Cold	✓ Noise	✓ Moving Equipment	
___ Rain	✓ Underground Hazards	___ Confined Spaces	
✓ Fog	✓ Overhead Hazards		
___ Other			

Personal Protective Equipment

R = Required A = As Needed

R	Hard Hat	R	Safety Eyewear (Type)
R	Safety Boots	A	Respirator (Type)
A	Orange Vest		Filter (Type)
R	Hearing Protection	R	Gloves (Type)
A	Tyvek Coveralls	___	Other
___	5 Minute Escape Respirator	___	Other

(Note: This is a modified Level ___A ___B ___C ✓D)

Monitoring Equipment on Site

___	Organic Vapor Analyzer	___	PID with lamp of 10.6 eV
___	Oxygen Meter	___	Dräger Tube
___	Combustible Gas Meter	___	Passive Dosimeter
___	H_2S Meter	___	Air Sampling Pump
___	W.B.G.T.		Filter Media
	Other:		

KA KLEINFELDER

HEALTH SAFETY PLAN

Project Name: Mc Grath RentCorp Project No. 65-3002-87

HEALTH EFFECTS

EFFECTS				TARGET ORGANS	
	1 Abdominal Pain		13 Miosis (Pinpoint Pupils)	A	Bladder
	2 Coma		14 Narcosis	B	Blood
	3 Convulsions		15 Nausea	C	Bone Marrow
	4 Dermatitis		16 Nose Irritation	D	Central Nervous System
	5 Diarrhea		17 Respiratory Irritant	E	Eyes
	6 Dilated Pupils		18 Staggering Gait	F	Heart
	7 Dizziness		19 Sweating	G	Liver
	8 Eye Irritation		20 Tearing	H	Lungs
	9 Fatigue		21 Throat Irritation	I	Kidneys
	10 Giddiness		22 Vertigo	J	Respiratory System
	11 Headache		23 Vomiting	K	Skin
	12 Light Headed	Ca	Carcinogen		

Organic Chemicals				Pesticides		
	Chemical	Health Effects	Target Organs	Chemical	Health Effects	Target Organs
	Acetone	4, 6, 8, 11, 16, 21	J, K	Aldrin	Ca, 2, 3, 7, 11, 15	D, G, I, K
	Benzene	Ca, 1, 4, 8, 11, 16, 17, 18	C, D, E, J, K	Carboryl	1, 3, 5, 13, 15, 22	D, J, K
	Chloroform	Ca, 7, 8, 11, 15	E, G, I, K	Chlordane	1, 3, 5, 15, 22	D, E, G, H, I, K
	Coal Tar Naphtha	4, 8, 16	E, J, K	DBCP	Ca, 8, 15, 16, 21, 22	D, G, I, K
	Ethylbenzene	2, 4, 8, 11	D, E, J, K	DDT	Ca, 3, 7, 8, 22	D, G, I, K
	Hexane	4, 8, 10, 11, 12, 16	E, H, J, K	Dieldrin	Ca, 2, 3, 7, 11, 15, 22	D, G, I, K
	Hydrogen Sulfide	2, 3, 7, 8, 9, 11, 17	E, J	Endrin	1, 3, 7, 15, 22	D, G
	Methylene Chloride	8, 9, 12, 14, 21	D, E, J	Ethylene dibromide	Ca, 4, 8, 17	E, G, I, J, K
	Methyl Ethyl Ketone	7, 8, 11, 16, 22	D, H	Heptachlor	3	D, G
	PCBs	Ca, 4, 8	E, G, K	Lindane	3, 4, 8, 16	B, D, E, G, I, K
	Petroleum Distillates	7, 8, 11, 16, 21	D, E, J, K	Malathion	1, 5, 8, 13, 15, 22	B, D, G, J
	Phenol	3, 4, 8, 16, 21	G, I, K	Parathion	1, 3, 4, 5, 11, 13, 15, 19	B, D, E, J, K
	Tetrachloroethylene	Ca, 7, 8, 11, 16, 20	D, E, G, I, J			
	Toluene	4, 6, 11	D, G, I, K			
	1,1,1-Trichloroethane	4, 8, 11	D, E, K			
	Tricholoethylene	Ca, 4, 8, 11, 15, 22	D, G, I, J, K			
	Vinyl Chloride	Ca, 1	B, D, G, J			
	Xylenes	1, 5, 8, 16, 18, 21	B, D, E, G, I, K			

CAS# = Chemical Abstract Services Number
PEL = OSHA Permissible Exposure Limit
N/A = Not Available
VP = Vapor Pressure

KA KLEINFELDER

HEALTH SAFETY PLAN

Project Name: _____ Project No. _____

WARNING CONCENTRATIONS

Organic Compounds

Chemical	CAS #	PEL	Warning Concentration	VP	eV	Solubility	Density
Acetone	67641	750 ppm	100 ppm	266 mm	9.69	Miscible	0.8
Benzene	71432	1 ppm	4.68 ppm	75 mm	9.25	0.18%	0.88
Chloroform	67663	2 ppm	50 ppm	160 mm	11.42	0.80%	1.5
Coal Tar Naphtha	65996794	None	Variable	5 mm	N/A	Insoluble	N/A
Ethylbenzene	100414	100 ppm	0.25 ppm	7.1 mm	8.76	0.02%	0.87
Hexane	110543	50 ppm	1400 ppm	124 mm	10.18	0.01%	0.66
Hydrogen Sulfide	7783064	10 ppm	0.8 ppm	20 atm	10.43	2.90%	N/A
Methylene Chloride	750092	100 ppm	25 ppm	350 mm	11.35	1.30%	1.33
Methyl Ethyl Ketone	78933	200 ppm	4.8 ppm	70 mm	9.48	27%	0.81
PCBs	53469219	0.5 mg/m³	N/A	0.001 mm	N/A	Insoluble	1.44
Petroleum Distillates	8002059	400 ppm	Variable	40 mm	N/A	0.04%	N/A
Phenol	108952	5 ppm	0.1 ppm	0.36 mm	8.5	8.40%	1.07
Tetrachloroethylene	127184	25 ppm	4.68 ppm	14 mm	9.32	0.02%	1.63
Toluene	108883	100 ppm	0.17 ppm	22 mm	8.82	0.05%	0.87
1,1,1, Trichloroethane	71556	350 ppm	20 ppm	100 mm	11.25	0.07%	1.34
Trichloroethylene	79016	25 ppm	21.4 ppm	58 mm	9.47	0.10%	1.47
Vinyl Chloride	75014	1 ppm	260 ppm	2580 mm	9.9995	Slight	0.92
Xylenes	1330207	100 ppm	1.8 ppm	9 mm	8.56	0.00%	0.86

Pesticides

Pesticide	CAS #	PEL	Warning Concentration	VP	Solubility
Aldrin	309002	0.25mg/m³	N/A	0.000006 mm	Insoluble
Carbaryl	63252	5mg/m³	Odorless	0.005 mm	0.00%
Chlordane	57749	0.5mg/m³	Odorless	0.00001 mm	Insoluble
DBCP	96128	1 ppb	N/A	0.8 mm	0.10%
DDT	50293	1 mg/m³	2.9mg/m³	0.00000017 mm	0.00%
Dieldrin	60571	0.25mg/m³	0.41 ppm	0.00000018 mm	10 ppb
Endrin	72208	0.1mg/m³	N/A	0.0000002 mm	160 ppb
Ethylene Dibromide	106934	0.13 ppm	10 ppm	11 mm	0.40%
Heptachlor	76448	0.5mg/m³	0.02 ppm	0.0003 mm	Insoluble
Lindane	58899	0.5mg/m³	3.9mg/m³	0.0000094 mm	0.00%
Malathion	121755	10mg/m³	10mg/m³	0.00004 mm	0.01%
Parathion	56382	0.1mg/m³	0.48mg/m³	0.0004 mm	0.00%

KA KLEINFELDER

HEALTH SAFETY PLAN

Project Name: _____ Project No. _____

WARNING CONCENTRATIONS

Metals

Metal	CAS #	PEL		Health Effects	Target Organs
Arsenic, inorganic	7440382	0.01	mg/m³	Ca, 4, 17, 20	G, H, I, K
Asbestos	1332214	0.20	fibers/cc	Ca, 17	H
Chromium VI	7440473	0.05	mg/m³	Ca, 17	J
Copper	7440508	1	mg/m³	4, 8, 16, 21	G, I, J, K
Cyanide	151508	5	mg/m³	4, 8, 11, 15, 17, 23	D, E, J, K
Lead	7439921	0.05	mg/m³	1	B, D, I
Mercury	7439976	0.05	mg/m³	4, 8, 9, 11	D, E, I, J, F
Phosphorous	7723140	0.1	mg/m³	1, 8, 17	B, E, G, I, J, K
Polynuclear Aromatics (coal tar pitch volatiles)	8007452	0.2	mg/m³	Ca, 4	A, I, J, K
Silica (crystalline)	14808607	0.05	mg/m³	17	J

PERSONAL AIR MONITORING

Required? No yes / no

Sample No. _____ Sample No. _____

Name: _____ Name: _____

Date _____ Date _____

Time On: _____ Time Off: _____ Time On: _____ Time Off: _____

Laboratory Performing Analysis: _____

KA KLEINFELDER

HEALTH SAFETY PLAN

Project Name: Mc Grath Rent Corp Project No. 16-3002-84

I have reviewed and understand the contents of this Health and Safety Plan.

Name (print)	Signature	Date
[illegible]	[illegible]	2/15/96
Trevor Joyner	[illegible]	2-15-96
Dora Beck	Dora Beck	2-15-96
Kristen Schiller	[illegible]	2-15-96
DAVID ONEAL	[illegible]	6-24-96
Horace Smith	Horace Smith	6-24-96
[illegible]	[illegible]	6-24-96
[illegible]	James Williams	6-24-96
[illegible]	Roxy Barnett	6-24-96
Todd Davis	Todd Davis	6/24/96

APPENDIX B
PHOTOGRAPHS

PHOTOGRAPH #1

DRILLING OPERATIONS

PHOTOGRAPH #2

STORM DRAIN CLEAN-OUT OPERATIONS

PHOTOGRAPH #3

WATER AND SLUDGE STORAGE FROM OUTLET OF STORM DRAIN PIPE

PHOTOGRAPH #4

SLUDGE / WASTEWATER STORAGE ROLL-OFF BINS

PHOTOGRAPH #5

6,500 GALLON WATER STORAGE CONTAINERS

WITH TEMPORARY WASTEWATER TREATMENT SYSTEM

PHOTOGRAPH #6

STORM DRAIN OUTLET EXCAVATION

PHOTOGRAPH #7

DRAINAGE DITCH EXCAVATION LOOKING WEST

PHOTOGRAPH #8

DRAINAGE DITCH EXCAVATION LOOKING EAST

McCAMPBELL ANALYTICAL INC. | 110 2nd Avenue South, #D7, Pacheco, CA 94553
Tele: 510-798-1620 Fax: 510-798-1622

Kleinfelder 7133 Koll Center Parkway, # 100 Pleasanton, CA 94566	Client Project ID: # 10-3002-84/003; McGrath Rent Corp.	Date Sampled: 04/30/96
		Date Received: 04/30/96
	Client Contact: Dan Carroll	Date Extracted: 04/30/96
	Client P.O: # R3574	Date Analyzed: 04/30/96

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline*, with BTEX*

EPA methods 5030, modified 8015, and 8020 or 602; California RWQCB (SF Bay Region) method GCFID(5030)

Lab ID	Client ID	Matrix	TPH(g)+	Benzene	Toluene	Ethylben-zene	Xylenes	% Rec. Surrogate
64601-05	T1-T5	W	1300,a	26	98	45	300	99
Reporting Limit unless otherwise stated; ND means not detected above the reporting limit		W	50 ug/L	0.5	0.5	0.5	0.5	
		S	1.0 mg/kg	0.005	0.005	0.005	0.005	

* water and vapor samples are reported in ug/L, soil samples in mg/kg, and all TCLP extracts in mg/L

cluttered chromatogram; sample peak coelutes with surrogate peak

+ The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (?); f) one to a few isolated peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen is present; i) liquid sample that contains greater than ~ 5 vol. % sediment; j) no recognizable pattern.

DHS Certification No. 1644

Edward Hamilton, Lab Director

McCAMPBELL ANALYTICAL INC.
110 2nd Avenue South, #D7, Pacheco, CA 94553
Tele: 510-798-1620 Fax: 510-798-1622

Kleinfelder 7133 Koll Center Parkway, # 100 Pleasanton, CA 94566	Client Project ID: # 10-3002-84/003; McGrath Rent Corp.	Date Sampled: 04/30/96
		Date Received: 04/30/96
	Client Contact: Dan Carroll	Date Extracted: 04/30/96
	Client P.O: # R3574	Date Analyzed: 05/01/96

Metals by ICP*

EPA analytical methods 6010, 200.7

Lab ID	Client ID	Matrix	Extraction°	Zinc*
64601	T1	W	TTLC	31,i
64602	T2	W	TTLC	11,i
64603	T3	W	TTLC	9.2,i
64604	T4	W	TTLC	28
64605	T5	W	TTLC	9.9
64606	T6A-T6B	Sludge	TTLC	3800
64607	T7A-T7B	Sludge	TTLC	4500
Reporting Limit unless otherwise stated; ND means not detected above the reporting limit		W	TTLC	0.05
		S	TTLC	1.0
		—	STLC,TCLP	0.05

* soil samples are reported in mg/kg, and water samples and all STLC & TCLP extracts in mg/L

o EPA extraction methods 1311(TCLP), 3010/3020(water,TTLC), 3040(organic matrices,TTLC), 3050(solids,TTLC); STLC from CA Title 22

i) liquid sample that contains greater than ~ 2 vol. % sediment; this sediment is extracted with the liquid, in accordance with EPA methodologies and can significantly effect reported metal concentrations.

DHS Certification No. 1644

Edward Hamilton, Lab Director

McCAMPBELL ANALYTICAL INC.
110 2nd Avenue South, #D7, Pacheco, CA 94553
Tele: 510-798-1620 Fax: 510-798-1622

Kleinfelder 7133 Koll Center Parkway, # 100 Pleasanton, CA 94566	Client Project ID: # 10-3002-84/003; McGrath Rent Corp.	Date Sampled: 04/30/96
		Date Received: 04/30/96
	Client Contact: Dan Carroll	Date Extracted: 04/30/96
	Client P.O: # R3574	Date Analyzed: 05/01-05/04/96

Metals*

EPA methods 6010/200.7; 7060/206.2 (As); 7740/270.2 (Se); 239.2 (Pb, water matrix)

Lab ID	64601-05				Reporting Limit		
Client ID	T1-T5						
Matrix	W				S	W	STLC / TCLP
Extraction°	TTLC				TTLC	TTLC	
Compound	Concentration*				mg/kg	mg/L	mg/L
Arsenic (As)	ND				2.5	0.005	0.25
Cadmium (Cd)	ND				0.5	0.01	0.01
Chromium (Cr)	0.025				0.5	0.005	0.05
Copper (Cu)	0.045				2.0	0.02	0.05
Lead (Pb)	ND				3.0	0.005	0.2
Nickel (Ni)	0.033				2.0	0.02	0.05
Selenium (Se)	ND				2.5	0.005	0.25
Silver (Ag)	ND				1.0	0.01	0.05
Zinc (Zn)	14				1.0	0.05	0.05
% Recovery Surrogate	105						
Comments							

* water samples are reported in mg/L, soil samples in mg/kg and all TCLP & STLC extracts in mg/L

ND means not detected above the reporting limit

o EPA extraction methods 1311(TCLP), 3010/3020(water,TTLC), 3040(organic matrices,TTLC), 3050(solids,TTLC); STLC from CA Title 22

surrogate diluted out of range; N/A means surrogate not applicable to this analysis

i) liquid sample that contains greater than ~ 2 vol. % sediment; this sediment is extracted with the liquid, in accordance with EPA methodologies and can significantly effect reported metal concentrations.

DHS Certification No. 1644

Edward Hamilton, Lab Director

McCAMPBELL ANALYTICAL INC.
110 2nd Avenue South, #D7, Pacheco, CA 94553
Tele: 510-798-1620 Fax: 510-798-1622

Kleinfelder 7133 Koll Center Parkway, # 100 Pleasanton, CA 94566	Client Project ID: # 10-3002-84/003; McGrath Rent Corp.	Date Sampled: 04/30/96
		Date Received: 04/30/96
	Client Contact: Dan Carroll	Date Extracted: 05/02/96
	Client P.O: # R3574	Date Analyzed: 05/02/96

			Total Cyanide
Analytical methods			EPA 335.2, 9010, 9011
Lab ID	Client ID	Matrix	Cyanide*
64601-05	T1-T5	W	ND
Reporting Limit unless otherwise-tated; ND means not detected above the reporting limit		W	0.02 mg/L
		S	1.0 mg/kg

* water samples are reported in mg/L and soil samples in mg/kg

o solid samples are extracted in accordance with CA Title 22, Chapter 11, Appendix II

DHS Certification No. 1644

Edward Hamilton, Lab Director

McCAMPBELL ANALYTICAL INC.
110 2nd Avenue South, #D7, Pacheco, CA 94553
Tele: 510-798-1620 Fax: 510-798-1622

QC REPORT FOR HYDROCARBON ANALYSES

Date: 04/30/96 Matrix: Water

Analyte	Concentration (ug/L) Sample (#64533)	MS	MSD	Amount Spiked	% Recovery MS	MSD	RPD
TPH (gas)	0.0	103.0	104.6	100.0	103.0	104.6	1.5
Benzene	0.0	11.4	11.1	10.0	114.0	111.0	2.7
Toluene	0.0	11.6	11.1	10.0	116.0	111.0	4.4
Ethyl Benzene	0.0	11.6	11.2	10.0	116.0	112.0	3.5
Xylenes	0.0	34.8	33.8	30.0	116.0	112.7	2.9
TPH (diesel)	0	160	160	150	107	107	0.0
TRPH (oil & grease)	0	20600	21400	23700	87	90	3.8

% Rec. = (MS - Sample) / amount spiked x 100

RPD = (MS - MSD) / (MS + MSD) x 2 x 100

McCAMPBELL ANALYTICAL INC.
110 2nd Avenue South, #D7, Pacheco, CA 94553
Tele: 510-798-1620 Fax: 510-798-1622

QC REPORT FOR METALS

Date: 05/01/96 Matrix: Water

Extraction: TTLC

Analyte	Concentration (mg/L) Sample	MS	MSD	Amount Spiked	% Recovery MS	MSD	RPD
Arsenic	0.0	5.6	5.6	5.0	112	112	0.1
Selenium	0.0	5.2	5.3	5.0	104	105	0.7
Molybdenum	0.0	5.5	5.3	5.0	109	107	2.4
Silver	0.0	0.5	0.5	0.5	96	96	0.3
Thallium	0.0	4.9	4.9	5.0	99	98	0.7
Barium	0.0	5.0	5.0	5.0	101	100	0.3
Nickel	0.0	5.5	5.5	5.0	110	109	0.5
Chromium	0.0	5.6	5.4	5.0	111	108	2.5
Vanadium	0.0	5.4	5.5	5.0	109	110	0.6
Beryllium	0.0	5.6	5.6	5.0	113	113	0.1
Zinc	0.0	5.6	5.6	5.0	112	113	0.6
Copper	0.0	5.2	5.2	5.0	104	104	0.0
Antimony	0.0	5.4	5.2	5.0	107	104	3.0
Lead	0.0	5.4	5.4	5.0	108	108	0.8
Cadmium	0.0	6.0	5.9	5.0	120	119	0.7
Cobalt	0.0	5.5	5.4	5.0	111	108	2.3
Mercury	0.000	0.208	0.201	0.2	104	101	3.4

% Rec. = (MS - Sample) / amount spiked x 100

RPD = (MS - MSD) / (MS + MSD) x 2 x 100

McCAMPBELL ANALYTICAL INC.
110 2nd Avenue South, #D7, Pacheco, CA 94553
Tele: 510-798-1620 Fax: 510-798-1622

QC REPORT FOR AA METALS

Date: 05/04/96 Matrix: Water

Analyte	Concentration (mg/L)			Amount	% Recovery		RPD
	Sample	MS	MSD		MS	MSD	
Total Lead	0.00	4.63	4.54	5.00	93	91	2.0
Total Chromium	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total Cadmium	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total Nickel	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total Zinc	N/A	N/A	N/A	N/A	N/A	N/A	N/A
STLC Lead	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Organic Lead	N/A	N/A	N/A	N/A	N/A	N/A	N/A

% Rec. = (MS - Sample) / amount spiked x 100

RPD = (MS - MSD) / (MS + MSD) x 2 x 100

American Environmental Network

Certificate of Analysis

DOHS Certification: 1172 AIHA Accreditation: 11134

McCAMPBELL ANALYTICAL
110 2ND AVE. SOUTH, #D7
PACHECO, CA 94553

ATTN: EDWARD HAMILTON
CLIENT PROJ. ID: 6287
CLIENT PROJ. NAME: K-MRC

REPORT DATE: 05/03/96

DATE(S) SAMPLED: 04/30/96

DATE RECEIVED: 05/01/96

AEN WORK ORDER: 9605012

PROJECT SUMMARY:

On May 1, 1996, this laboratory received 1 water sample(s).

Client requested sample(s) be analyzed for chemical parameters. Results of analysis are summarized on the following page(s). Please see quality control report for a summary of QC data pertaining to this project.

Samples will be stored for 30 days after completion of analysis, then disposed of in accordance with State and Federal regulations. Samples may be archived by prior arrangement.

If you have any questions, please contact Client Services at (510) 930-9090.

Larry Klein
Laboratory Director

McCAMPBELL ANALYTICAL

SAMPLE ID: COMPOSITE 1 - WATER
AEN LAB NO: 9605012-01
AEN WORK ORDER: 9605012
CLIENT PROJ. ID: 6287

DATE SAMPLED: 04/30/96
DATE RECEIVED: 05/01/96
REPORT DATE: 05/03/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
Phenols	EPA 420.1	ND	0.05	mg/L	05/02/96

ND = Not detected at or above the reporting limit
* = Value at or above reporting limit

AEN (CALIFORNIA)
QUALITY CONTROL REPORT

AEN JOB NUMBER: 9605012
CLIENT PROJECT ID: 6287

Quality Control and Project Summary

All laboratory quality control parameters were found to be within established limits.

Definitions

Laboratory Control Sample (LCS)/Method Spikes(s): Control samples of known composition. LCS and Method Spike data are used to validate batch analytical results.

Matrix Spike(s): Aliquot of a sample (aqueous or solid) with added quantities of specific compounds and subjected to the entire analytical procedure. Matrix spike and matrix spike duplicate QC data are advisory.

Method Blank: An analytical control consisting of all reagents, internal standards, and surrogate standards carried through the entire analytical process. Used to monitor laboratory background and reagent contamination.

Not Detected (ND): Not detected at or above the reporting limit.

Relative Percent Difference (RPD): An indication of method precision based on duplicate analyses.

Reporting Limit (RL): The lowest concentration routinely determined during laboratory operations. The RL is generally 1 to 10 times the Method Detection Limit (MDL). Reporting limits are matrix, method, and analyte dependent and take into account any dilutions performed as part of the analysis.

Surrogates: Organic compounds which are similar to analytes of interest in chemical behaviour, but are not found in environmental samples. Surrogates are added to all blanks, calibration and check standards, samples, and spiked samples. Surrogate recovery is monitored as an indication of acceptable sample preparation and instrument performance.

D: Surrogates diluted out.

!: Indicates result outside of established laboratory QC limits.

ANALYSIS: Phenols

MATRIX: Water

METHOD BLANK SAMPLES

SAMPLE TYPE: Blank-Method/Media blank
INSTRUMENT: Novaspec uv/vis spect.
UNITS: mg/L
METHOD: EPA 420.1

LAB ID: PHNL_BLNK
PREPARED:
ANALYZED: 05/03/96

INSTR RUN: UV_VIS\960503160000/1/
BATCH ID: DISP050296
DILUTION: 1.000000

ANALYTE	RESULT	REF RESULT	REPORTING LIMIT	SPIKE VALUE	RECOVERY (%)	REC LIMITS (%) LOW	REC LIMITS (%) HIGH	RPD (%)	RPD LIMIT (%)
Total Phenols	ND		0.05						

METHOD SPIKE SAMPLES

SAMPLE TYPE: Spike-Method/Media blank
INSTRUMENT: Novaspec uv/vis spect.
UNITS: mg/L
METHOD: EPA 420.1

LAB ID: PHNL_MD
PREPARED:
ANALYZED: 05/03/96

INSTR RUN: UV_VIS\960503160000/3/1
BATCH ID: DISP050296
DILUTION: 1.000000

ANALYTE	RESULT	REF RESULT	REPORTING LIMIT	SPIKE VALUE	RECOVERY (%)	REC LIMITS (%) LOW	REC LIMITS (%) HIGH	RPD (%)	RPD LIMIT (%)
Total Phenols	0.486	ND	0.05	0.500	97.2	80	120		

SAMPLE TYPE: Spike-Method/Media blank
INSTRUMENT: Novaspec uv/vis spect.
UNITS: mg/L
METHOD: EPA 420.1

LAB ID: PHNL_MS
PREPARED:
ANALYZED: 05/03/96

INSTR RUN: UV_VIS\960503160000/2/1
BATCH ID: DISP050296
DILUTION: 1.000000

ANALYTE	RESULT	REF RESULT	REPORTING LIMIT	SPIKE VALUE	RECOVERY (%)	REC LIMITS (%) LOW	REC LIMITS (%) HIGH	RPD (%)	RPD LIMIT (%)
Total Phenols	0.499	ND	0.05	0.500	99.8	80	120		

METHOD SPIKE DUPLICATES

SAMPLE TYPE: Method Spike Sample Duplicate
INSTRUMENT: Novaspec uv/vis spect.
UNITS: mg/L
METHOD: EPA 420.1

LAB ID: PHNL_MR
PREPARED:
ANALYZED: 05/03/96

INSTR RUN: UV_VIS\960503160000/4/2
BATCH ID: DISP050296
DILUTION: 1.000000

ANALYTE	RESULT	REF RESULT	REPORTING LIMIT	SPIKE VALUE	RECOVERY (%)	REC LIMITS (%) LOW	REC LIMITS (%) HIGH	RPD (%)	RPD LIMIT (%)
Total Phenols	0.486	0.499	0.05					2.64	15

---------- End of Quality Control Report ----------

AEN [illegible] [illegible]

McCAMPBELL ANALYTICAL

110 2nd AVENUE, # D7
PACHECO, CA 94553
(510) 798-1620 FAX (510) 798-1622

CHAIN OF CUSTODY RECORD

TURN AROUND TIME: ☐ RUSH ☐ 24 HOUR ☒ 48 HOUR ☐ 5 DAY

REPORT TO: Ed Hamilton BILL TO:

COMPANY: McCampbell Analytical

TELE: (510) 798-1620 FAX #: (510) 798-1622

PROJECT NUMBER: 6287 PROJECT NAME: K-MRC

PROJECT LOCATION: SAMPLER SIGNATURE:

SAMPLE ID	LOCATION	SAMPLING DATE	SAMPLING TIME	# CONTAINERS	TYPE CONTAINERS	MATRIX: WATER	MATRIX: SOIL	MATRIX: AIR	MATRIX: SLUDGE	MATRIX: OTHER	METHOD PRESERVED: HCL	METHOD PRESERVED: HNO3	METHOD PRESERVED: OTHER H_2SO_4
Composite1-Water	01A	4/30/96	10:45-12:15	1	L	X							X

ANALYSIS REQUEST	Composite1-Water
BTEX & TPH as Gasoline (602/8020 & 8015)	
THP as Diesel (8015)	
Total Petroleum Oil & Grease (5520 E&F/5520 B&F)	
Total Petroleum Hydrocarbons (418.1)	
EPA 601/8010	
EPA 602/8020	
EPA 608/8080	
EPA 608/8080 - PCBs Only	
EPA 624/8240/8260	
EPA 625/8270	
CAM - 17 Metals	
EPA - Priority Pollutant Metals	
LEAD (7240/7421/239.2/6010)	
ORGANIC LEAD	
RCI	
OTHER: phenolics	X
COMMENTS	64601-64605

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:
Angela Rydelius	5/1/96	2:05 pm	Michael E. Kadlec
Michael E. Kadlec	5-1-96	14:20	

RELINQUISHED BY:	DATE	TIME	RECEIVED BY LABORATORY:
	5-1-96	1420	Eric L Pruitt

REMARKS:

AK[redacted]4

PROJ NO	PROJECT NAME
10-7c02-84/003	McGrath Rent Corp.
L P NO / P.O. NO.: R3574	SAMPLERS: (Signature/Number) Todd Davis

DATE MM DD YY	SAMPLE I.D. TIME HH MM SS	SAMPLE I D	NO OF CONTAINERS	ANALYSIS: Metals (As, Cd, Cu, Pb)	Se, Ag, Cr, Zn	TPH-g / BTEX	Cyanide	Phenolics	Zinc	Lab #	REMARKS
4/30/96	10:45	T1	6						/	64601	H2O } Lab: Make 5 point Composite
↓	11:15	T2	6						/	64602	Sample From T1, T2, T3,
	11:35	T3	6						/	64603	T4, & T5. Name
	11:55	T4	6						/	64604	Composite 1
	12:15	T5	6						/	64605	
	13:10	T6A	1								sludge } Lab: Make 2 point
	13:15	T6B	1								composite Sample from
	13:35	T7A	1								T6A & T6B; Name
↓	13:40	T7B	1								Composite 2
		40									Make 2 point
Lab to		Composite 1 - Water		/	/	/	/	/			composite Sample
		Composite 2 - Sludge							/		from T7A & T7B;
Make		Composite 3 - sludge							/		Name Composite 3
(see Notes) →											Summary:
										64606	Water composite: T1-T5
		ICED ✓ GOOD CONDITION ✓ HEAD SPACE ABSENT ✓		PRESERVED ✓ APPROPRIATE CONTAINERS ✓						64607	Sludge Composite: T6A-T6B
											Sludge composite: T7A-T7B

Relinquished by: (Signature)	Date/Time	Received by: (Signature)
Todd Davis	4/30/96 1605	Ron Hamilton
Relinquished by: (Signature)	Date/Time	Received by: (Signature)
Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)
Ron Hamilton	4/30/96 1650	Angela Rydelius

Remarks: 3 Day T.A.T. as discussed with Ed.

Attn. Dan Carroll

Send Results To:

KLEINFELDER
7133 KOLL CENTER PARKWAY
SUITE 100
PLEASANTON, CA 94566
(510) 484-1700

M-60 White - Sampler Canary - Return Copy To Shipper Pink - Lab Copy № 857

CHAIN OF CUSTODY

CHROMALAB, INC.

Environmental Services (SDB)

May 21, 1996 *Submission #:* 9605707

ERICKSON, INC.

Atten: Dave Nielson

Project: MCGRATH IND. *Project#:* 968284
Received: May 20, 1996

re: One sample for Miscellaneous Metals analysis.
Method: *EPA 3010A/6010A*

Client Sample ID: 01
Spl#: 85623 *Matrix:* WATER *Extracted:* May 21, 1996
Sampled: May 20, 1996 *Run#:* 1434 *Analyzed:* May 21, 1996

ANALYTE	RESULT (mg/L)	REPORTING LIMIT (mg/L)	BLANK RESULT (mg/L)	BLANK SPIKE (%)	DILUTION FACTOR
ZINC	N.D.	0.010	N.D.	97.8	1

Charles Woolley
Chemist

John S. Labash
Inorganic Supervisor

1220 Quarry Lane • Pleasanton, California 94566-4756
(510) 484-1919 • Facsimile (510) 484-1096
Federal ID #68-0140157

CHROMALAB, INC.

Environmental Services (SDB)

May 21, 1996 *Submission #:* 9605707

ERICKSON, INC.

Atten: Dave Nielson

Project: MCGRATH IND. *Project#:* 968284
Received: May 20, 1996

re: 1 sample for Gasoline and BTEX compounds analysis.
Method: *EPA 5030/8015M/8020*

Matrix: WATER
Sampled: May 20, 1996 *Run#:* 1450 *Analyzed:* May 21, 1996

Spl# CLIENT SPL ID	Gasoline (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethyl Benzene (ug/L)	Total Xylenes (ug/L)
85623 01	N.D.	N.D.	N.D.	N.D.	N.D.
Reporting Limits	50	0.50	0.50	0.50	0.50
Blank Result	N.D.	N.D.	N.D.	N.D.	N.D.
Blank Spike Result (%)	103	113	115	119	121

June Zhao
Chemist

Marianne Alexander
Gas/BTEX Supervisor

1220 Quarry Lane • Pleasanton, California 94566-4756
(510) 484-1919 • Facsimile (510) 484-1096
Federal ID #68-0140157

PAGE.004

JUN 28 '96 13:52 FROM ERICKSON

CHAIN OF CUSTODY RECORD

JOB NO.	PROJECT NAME
968284	MCGRATH AND.
LAB. NO.	SAMPLER (Signature)
	Elvi Freeman
DATE 5-20-96	

27879

NO.	SAMPLE LOCATION/INFORMATION	NO. OF CONTAINERS	ANALYSIS: TOTAL ZINC	TPH-GAS BTEX	BTEX	REMARKS
01	MCGRATH MOBILE MODULAR	2	X	X	X	24 hr T/A

BURM #: 9605707 REP: MV
CLIENT: ERICKSON
DUE: 05/21/96
REF #: 27879

RUSH

RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)
Elvi Freeman	5/20/96	
RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)
RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED FOR LAB. BY (Signature)
	5/20/96 1615	Mona Pal

REMARKS

P.O.# E-22831

Please call Dave Nielson at (510) 970-7467

ERICKSON INC. 255 PARR BOULEVARD • RICHMOND, CALIFORNIA 94801 • (415) 235-1393

** TOTAL PAGE.004 **

McCAMPBELL ANALYTICAL INC.
110 2nd Avenue South, #D7, Pacheco, CA 94553
Tele: 510-798-1620 Fax: 510-798-1622

02/29/96

Dear Kristen:

Enclosed are:

1). the results of 14 samples from your # 10-3002-84/002 project,

2). a QC report for the above samples

3). a copy of the chain of custody, and

4). a bill for analytical services.

If you have any questions please contact me. McCampbell Analytical Laboratories strives for excellence in quality, service and cost. Thank you for your business and I look forward to working with you again.

Yours truly,

Edward Hamilton

McCAMPBELL ANALYTICAL INC. | 110 2nd Avenue South, #D7, Pacheco, CA 94553
Tele: 510-798-1620 Fax: 510-798-1622

Kleinfelder 7133 Koll Center Parkway, # 100 Pleasanton, CA 94566	Client Project ID: # 10-3002-84/002	Date Sampled: 02/15/96
		Date Received: 02/15/96
	Client Contact: Kristen Scheller	Date Extracted: 02/16/96
	Client P.O: R3283	Date Analyzed: 02/16-02/17/96

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline*, with BTEX*

EPA methods 5030, modified 8015, and 8020 or 602; California RWQCB (SF Bay Region) method GCFID(5030)

Lab ID	Client ID	Matrix	TPH(g)+	Benzene	Toluene	Ethylben-zene	Xylenes	% Rec. Surrogate
61507	K-9-1 96368	S	ND	ND	ND	ND	ND	108
61509	K-8-1 96370	S	ND	ND	ND	ND	ND	104
61512	K-7-1 96372	S	ND	ND	ND	ND	ND	105
61513	CB-1 96376	Sludge	130,b,f	0.19	0.11	0.29	1.4	106
61514	K-6-1 96378	S	ND	ND	ND	ND	ND	106
61516	K-5-1 96380	S	ND	ND	ND	ND	ND	108
61518	CB-2 96382	Sludge	20,a	0.45	0.053	0.43	1.4	95
61519	K-3-1 96384	S	2.4,g	ND	ND	ND	ND	104
61521	K-4-1.5 96386	S	ND	ND	ND	ND	ND	104
61522	K-2-1 96387	S	ND	ND	ND	ND	ND	102
61524	CB-3 96388	Sludge	440,e	2.2	ND	ND	0.47	112
61525	CB-4 96392	Sludge	9.2,b	0.11	0.014	0.036	0.12	99
61526	K-1 96396	W	ND	ND	0.57	ND	ND	99
61527	K-10	Sludge	1.5,b	ND	ND	ND	ND	101
Reporting Limit unless otherwise stated; ND means not detected above the reporting limit		W	50 ug/L	0.5	0.5	0.5	0.5	
		S,Sludge	1.0 mg/kg	0.005	0.005	0.005	0.005	

* water and vapor samples are reported in ug/L, soil & sludge samples in mg/kg, and all TCLP extracts in mg/L

cluttered chromatogram; sample peak coelutes with surrogate peak

+ The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (Mineral spirits/Stoddard solvent ?); f) one to a few isolated peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen is present; i) liquid sample that contains greater than ~ 5 vol. % sediment; j) no recognizable pattern.

DHS Certification No. 1644

Edward Hamilton, Lab Director

McCAMPBELL ANALYTICAL INC. | 110 2nd Avenue South, #D7, Pacheco, CA 94553
Tele: 510-798-1620 Fax: 510-798-1622

Kleinfelder 7133 Koll Center Parkway, # 100 Pleasanton, CA 94566	Client Project ID: # 10-3002-84/002	Date Sampled: 02/15/96
		Date Received: 02/15/96
	Client Contact: Kristen Scheller	Date Extracted: 02/16/96
	Client P.O: R3283	Date Analyzed: 02/17-02/20/96

8015 Modified *

EPA methods modified 8015, and 3550/3510 or 5030

Lab ID	Client ID	Matrix	Ethylene Glycol*	Diethylene Glycol*	Propanal*	Propanol*
61507	K-9-1 96368	S	ND	ND	ND	ND
61509	K-8-1 96370	S	ND	ND	ND	ND
61512	K-7-1 96372	S	ND	ND	ND	ND
61513	CB-1 96376	Sludge	ND	ND	ND	ND
61514	K-6-1 96378	S	ND	ND	ND	ND
61516	K-5-1 96380	S	ND	ND	ND	ND
61518	CB-2 96382	Sludge	ND	ND	ND	ND
61519	K-3-1 96384	S	ND	ND	ND	ND
61521	K-4-1.5 96386	S	ND	ND	ND	ND
61522	K-2-1 96387	S	ND	ND	ND	ND
61524	CB-3 96388	Sludge	ND	ND	ND	ND
61525	CB-4 96392	Sludge	ND	ND	ND	ND
61526	K-1 96396	W	ND	ND	ND	ND
Reporting Limit unless otherwise stated; ND means not detected above the reporting limit		W	1.0 mg/L	1.0 mg/L	1.0 mg/L	1.0 mg/L
		S,Sludge	1.0 mg/kg	1.0 mg/kg	1.0 mg/kg	1.0 mg/kg

* water samples are reported in mg/L, soil & sludge samples in mg/kg, and all TCLP and STLC extracts in mg/L

h) lighter than water immiscible sheen is present; i) liquid sample that contains greater than ~ 5 vol. % sediment.

DHS Certification No. 1644

Edward Hamilton, Lab Director

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Tele: 510-798-1620 Fax: 510-798-1622

Kleinfelder 7133 Koll Center Parkway, # 100 Pleasanton, CA 94566	Client Project ID: # 10-3002-84/002	Date Sampled: 02/15/96
		Date Received: 02/15/96
	Client Contact: Kristen Scheller	Date Extracted: 02/16/96
	Client P.O: R3283	Date Analyzed: 02/21/96

Diesel Range (C10-C23), Motor Oil Range (> C18) Extractable Hydrocarbons as Diesel & Motor Oil *

EPA methods modified 8015, and 3550 or 3510; California RWQCB (SF Bay Region) method GCFID(3550) or GCFID(3510)

Lab ID	Client ID	Matrix	TPH(d)+	TPH(mo)+	% Recovery Surrogate
61527	K-10	Sludge	1.1,g	5.0	94
Reporting Limit unless otherwise stated; ND means not detected above the reporting limit		W	50 ug/L	250 ug/L	
		S	1.0 mg/kg	5.0 mg/kg	

* water samples are reported in ug/L, soil samples in mg/kg, and all TCLP and STLC extracts in mg/L

cluttered chromatogram resulting in coeluted surrogate and sample peaks, or; surrogate peak is on elevated baseline, or; surrogate has been diminished by dilution of original extract.

+ The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified diesel is significant; b) diesel range compounds are significant; no recognizable pattern; c) aged diesel? is significant); d) gasoline range compounds are significant; e) medium boiling point pattern that does not match diesel (?); f) one to a few isolated peaks present; g) oil range compounds are significant; h) lighter than water immiscible sheen is present; i) liquid sample that contains greater than ~ 5 vol. % sediment.

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Edward Hamilton, Lab Director

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Kleinfelder 7133 Koll Center Parkway, # 100 Pleasanton, CA 94566	Client Project ID: # 10-3002-84/002	Date Sampled: 02/15/96
		Date Received: 02/15/96
	Client Contact: Kristen Scheller	Date Extracted: 02/16/96
	Client P.O: R3283	Date Analyzed: 02/20/96

Metals*

EPA analytical methods 6010/200.7, 239.2+

Lab ID	Client ID	Matrix	Extraction°	Lead	Tin	Zinc	% Rec. Surrogate
61507	K-9-1 96368	S	TTLC	11	ND	170	107
61509	K-8-1 96370	S	TTLC	5.4	ND	140	104
61512	K-7-1 96372	S	TTLC	10	ND	88	105
61513	CB-1 96376	Sludge	TTLC	21	6.8	2700	105
61514	K-6-K 96378	S	TTLC	9.2	ND	130	107
61516	K-5-1 96380	S	TTLC	32	ND	100	107
61518	CB-2 96382	Sludge	TTLC	38	10	1300	108
61519	K-3-1 96384	S	TTLC	11	ND	94	109
61521	K-4-1.5 96386	S	TTLC	11	ND	86	105
61522	K-2-1 96387	S	TTLC	16	ND	95	103
61524	CB-3 96388	Sludge	TTLC	4.5	ND	2900	103
61525	CB-4 96392	Sludge	TTLC	9.4	ND	470	107
61526	K-1 96396	W	TTLC	0.20	ND	35	105
Reporting Limit unless otherwise stated; ND means not detected above the reporting limit		S,Sludge	TTLC	3.0 mg/kg	5.0	1.0	
		W	TTLC	0.005 mg/L	0.10	0.01	
		—	STLC,TCLP	0.2	0.10	0.05	

* soil & sludge samples are reported in mg/kg, and water samples and all STLC & TCLP extracts in mg/L

+ Lead is analysed using EPA method 6010 (ICP)for soils, STLC & TCLP extracts and method 239.2 (AA Furnace) for water samples

o EPA extraction methods 1311(TCLP), 3010/3020(water,TTLC), 3040(organic matrices,TTLC), 3050(solids,TTLC); STLC from CA Title 22

surrogate diluted out of range; N/A means surrogate not applicable to this analysis

i) liquid sample that contains greater than ~ 2 vol. % sediment; this sediment is extracted with the liquid, in accordance with EPA methodologies and can significantly effect reported metal concentrations.

DHS Certification No. 1644

Edward Hamilton, Lab Director

McCAMPBELL ANALYTICAL INC.
110 2nd Avenue South, #D7, Pacheco, CA 94553
Tele: 510-798-1620 Fax: 510-798-1622

Kleinfelder 7133 Koll Center Parkway, # 100 Pleasanton, CA 94566	Client Project ID: # 10-3002-84/002	Date Sampled: 02/15/96
		Date Received: 02/15/96
	Client Contact: Kristen Scheller	Date Extracted: 02/26-02/28/96
	Client P.O: R3283	Date Analyzed: 02/28/96

Metals*

EPA analytical methods 6010/200.7, 239.2+

Lab ID	Client ID	Matrix	Extraction°	Zinc	% Rec. Surrogate
61513	CB-1 96376	Sludge	STLC	110	NA
61524	CB-3 96388	Sludge	STLC	67	NA
Reporting Limit unless otherwise stated; ND means not detected above the reporting limit		S,Sludge	TTLC	1.0	
		W	TTLC	0.01	
		---	STLC,TCLP	0.05	

* soil & sludge samples are reported in mg/kg, and water samples and all STLC & TCLP extracts in mg/L

+ Lead is analysed using EPA method 6010 (ICP)for soils, STLC & TCLP extracts and method 239.2 (AA Furnace) for water samples

o EPA extraction methods 1311(TCLP), 3010/3020(water,TTLC), 3040(organic matrices,TTLC), 3050(solids,TTLC); STLC from CA Title 22

surrogate diluted out of range; N/A means surrogate not applicable to this analysis

i) liquid sample that contains greater than ~ 2 vol. % sediment; this sediment is extracted with the liquid, in accordance with EPA methodologies and can significantly effect reported metal concentrations.

DHS Certification No. 1644

Edward Hamilton, Lab Director

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110 2nd Avenue South, #D7, Pacheco, CA 94553
Tele: 510-798-1620 Fax: 510-798-1622

Kleinfelder 7133 Koll Center Parkway, # 100 Pleasanton, CA 94566	Client Project ID: # 10-3002-84/002	Date Sampled: 02/15/96
		Date Received: 02/15/96
	Client Contact: Kristen Scheller	Date Extracted: 02/19/96
	Client P.O: R3283	Date Analyzed: 02/19/96

			pH
Analytical methods			EPA 150.1, 9040, 9045
Lab ID	Client ID	Matrix	pH
61507	K-9-1 96368	S	7.34
61509	K-8-1 96370	S	7.42
61512	K-7-1 96372	S	7.60
61513	CB-1 96376	Sludge	7.31
61514	K-6-1 96378	S	7.68
61516	K-5-1 96380	S	10.53
61518	CB-2 96382	Sludge	7.50
61519	K-3-1 96384	S	7.89
61521	K-4-1.5 96386	S	7.42
61522	K-2-1 96387	S	7.75
61524	CB-3 96388	Sludge	7.37
61525	CB-4 96392	Sludge	7.60
61526	K-1 96396	W	7.33
Reporting Limit or Method Accuracy unless otherwise stated; ND		W	± 0.05
means not detected above the reporting limit; N/A means not applicable		S,Sludge	± 0.1
Reporting Units		W,S,Sludge	$-\log(a_H^+)$

DHS Certification No. 1644

Edward Hamilton, Lab Director

McCAMPBELL ANALYTICAL INC.
110 2nd Avenue South, #D7, Pacheco, CA 94553
Tele: 510-798-1620 Fax: 510-798-1622

QC REPORT FOR HYDROCARBON ANALYSES

Date: 02/17/96 Matrix: Water

Analyte	Concentration (ug/L) Sample (#61428)	MS	MSD	Amount Spiked	% Recovery MS	MSD	RPD
TPH (gas)	0.0	114.3	112.5	100	114	112	1.6
Benzene	0.0	10.0	10.0	10.0	100.0	100.0	0.0
Toluene	0.0	10.4	10.4	10.0	104.0	104.0	0.0
Ethyl Benzene	0.0	10.5	10.6	10.0	105.0	106.0	0.9
Xylenes	0.0	32.2	32.2	30.0	107.3	107.3	0.0
TPH (diesel)	N/A	N/A	N/A	N/A	N/A	N/A	N/A
TRPH (oil & grease)	0	22300	24700	23700	94	104	10.2

% Rec. = (MS - Sample) / amount spiked x 100

RPD = (MS - MSD) / (MS + MSD) x 2 x 100

McCAMPBELL ANALYTICAL INC.
110 2nd Avenue South, #D7, Pacheco, CA 94553
Tele: 510-798-1620 Fax: 510-798-1622

QC REPORT FOR HYDROCARBON ANALYSES

Date: 02/17/96-02/20/96 Matrix: Soil/Water

Analyte	Concentration (ug/L) Sample (#61570)	MS	MSD	Amount Spiked	% Recovery MS	MSD	RPD
TPH (gas)	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Benzene	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Toluene	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Ethyl Benzene	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Xylenes	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Ethylene Glycol	0	317	282	300	106	94	11.7
TRPH (oil & grease)	N/A	N/A	N/A	N/A	N/A	N/A	N/A

% Rec. = (MS - Sample) / amount spiked x 100

RPD = (MS - MSD) / (MS + MSD) x 2 x 100

McCAMPBELL ANALYTICAL INC.
110 2nd Avenue South, #D7, Pacheco, CA 94553
Tele: 510-798-1620 Fax: 510-798-1622

QC REPORT FOR HYDROCARBON ANALYSES

Date: 02/16/96-02/17/96 Matrix: Soil

Analyte	Concentration (mg/kg) Sample (#59994)	MS	MSD	Amount Spiked	% Recovery MS	MSD	RPD
TPH (gas)	0.000	2.036	1.896	2.03	100	93	7.1
Benzene	0.000	0.182	0.176	0.2	91	88	3.4
Toluene	0.000	0.210	0.202	0.2	105	101	3.9
Ethylbenzene	0.000	0.196	0.190	0.2	98	95	3.1
Xylenes	0.000	0.618	0.602	0.6	103	100	2.6
TPH (diesel)	0	322	301	300	107	100	6.7
TRPH (oil and grease)	0.0	20.7	22.1	20.8	100	106	6.5

% Rec. = (MS - Sample) / amount spiked x 100

RPD = (MS - MSD) / (MS + MSD) x 2 x 100

McCAMPBELL ANALYTICAL INC.
110 2nd Avenue South, #D7, Pacheco, CA 94553
Tele: 510-798-1620 Fax: 510-798-1622

QC REPORT FOR HYDROCARBON ANALYSES

Date: 02/21/96 Matrix: Soil

Analyte	Concentration (mg/kg) Sample (#61109)	MS	MSD	Amount Spiked	% Recovery MS	MSD	RPD
TPH (gas)	0.000	1.855	1.982	2.03	91	98	6.7
Benzene	0.000	0.160	0.158	0.2	80	79	1.3
Toluene	0.000	0.182	0.178	0.2	91	89	2.2
Ethylbenzene	0.000	0.188	0.194	0.2	94	97	3.1
Xylenes	0.000	0.572	0.576	0.6	95	96	0.7
TPH (diesel)	0	323	323	300	108	108	0.0
TRPH (oil and grease)	N/A	N/A	N/A	N/A	N/A	N/A	N/A

% Rec. = (MS - Sample) / amount spiked x 100

RPD = (MS - MSD) / (MS + MSD) x 2 x 100

McCAMPBELL ANALYTICAL INC.
110 2nd Avenue South, #D7, Pacheco, CA 94553
Tele: 510-798-1620 Fax: 510-798-1622

QC REPORT FOR AA METALS

Date: 02/20/96 Matrix: Soil

Analyte	Concentration (mg/kg,mg/L) Sample	MS	MSD	Amount Spiked	% Recovery MS	MSD	RPD
Total Lead	0.0	5.2	5.4	5.0	104	108	3.7
Total Tin	0.0	10.2	10.7	10.0	102	107	4.6
Total Chromium	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total Nickel	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total Zinc	0.0	5.4	5.6	5.0	108	112	3.6
Total Copper	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Organic Lead	N/A	N/A	N/A	N/A	N/A	N/A	N/A

% Rec. = (MS - Sample) / amount spiked x 100

RPD = (MS - MSD) / (MS + MSD) x 2 x 100

McCAMPBELL ANALYTICAL INC.
110 2nd Avenue South, #D7, Pacheco, CA 94553
Tele: 510-798-1620 Fax: 510-798-1622

QC REPORT FOR AA METALS

Date: 02/20/96 Matrix: Water

Analyte	Concentration (mg/L)			Amount	% Recovery		RPD
	Sample	MS	MSD		MS	MSD	
Total Lead	0.00	5.11	5.21	5.00	102	104	2.0
Total Tin	0.00	9.73	10.02	10.00	97	100	3.0
Total Chromium	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total Nickel	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total Zinc	0.00	5.27	5.42	5.00	105	108	2.7
Total Copper	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Organic Lead	N/A	N/A	N/A	N/A	N/A	N/A	N/A

% Rec. = (MS - Sample) / amount spiked x 100

RPD = (MS - MSD) / (MS + MSD) x 2 x 100

McCAMPBELL ANALYTICAL INC.
110 2nd Avenue South, #D7, Pacheco, CA 94553
Tele: 510-798-1620 Fax: 510-798-1622

QC REPORT FOR AA METALS

Date: 02/28/96 Matrix: STLC

Analyte	Concentration (mg/kg,mg/L)			Amount	% Recovery		
	Sample	MS	MSD	Spiked	MS	MSD	RPD
Total Lead	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total Cadmium	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total Chromium	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total Nickel	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total Zinc	0.0	5.4	5.3	5.0	107	106	1.4
Total Copper	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Organic Lead	N/A	N/A	N/A	N/A	N/A	N/A	N/A

% Rec. = (MS - Sample) / amount spiked x 100

RPD = (MS - MSD) / (MS + MSD) x 2 x 100

CHROMALAB, INC.

Environmental Services (SDB)

February 26, 1996 *Submission #:* 9602133

MCCAMPBELL ANALYTICAL, INC.

Atten: Ed Hamilton

Project: K/5840 *Project#:* 10-3002-84/002
Received: February 16, 1996

re: One sample for Semivolatile Organics (BNAs) analysis.
Method: EPA 3550/8270

SampleID: CB-4
Sample #: 118406 *Matrix:* SOIL *Extracted:* February 20, 1996
Sampled: February 15, 1996 *Run:* 10479-A *Analyzed:* February 23, 1996

Analyte	RESULT (mg/Kg)	REPORTING LIMIT (mg/Kg)	BLANK RESULT (mg/Kg)	BLANK SPIKE RESULT (%)
PHENOL	N.D.	10	N.D.	--
BIS(2-CHLOROETHYL)ETHER	N.D.	10	N.D.	--
2-CHLOROPHENOL	N.D.	10	N.D.	81
1,3-DICHLOROBENZENE	N.D.	10	N.D.	--
1,4-DICHLOROBENZENE	N.D.	10	N.D.	--
BENZYL ALCOHOL	N.D.	20	N.D.	--
1,2-DICHLOROBENZENE	N.D.	10	N.D.	--
o-METHYLPHENOL	N.D.	10	N.D.	--
BIS(2-CHLOROISOPROPYL)ETHER	N.D.	10	N.D.	--
m+p-METHYLPHENOL	N.D.	20	N.D.	--
N-NITROSO-DI-N-PROPYLAMINE	N.D.	10	N.D.	73
HEXACHLOROETHANE	N.D.	10	N.D.	--
NITROBENZENE	N.D.	10	N.D.	--
ISOPHORONE	N.D.	10	N.D.	--
2-NITROPHENOL	N.D.	10	N.D.	--
2,4-DIMETHYLPHENOL	N.D.	10	N.D.	--
BIS(2-CHLOROETHOXY)METHANE	N.D.	10	N.D.	--
2,4-DICHLOROPHENOL	N.D.	10	N.D.	--
1,2,4-TRICHLOROBENZENE	N.D.	10	N.D.	69
NAPHTHALENE	N.D.	10	N.D.	--
4-CHLOROANILINE	N.D.	20	N.D.	--
HEXACHLOROBUTADIENE	N.D.	10	N.D.	--
4-CHLORO-3-METHYLPHENOL	N.D.	20	N.D.	91
2-METHYLNAPHTHALENE	N.D.	10	N.D.	--
HEXACHLOROCYCLOPENTADIENE	N.D.	10	N.D.	--
2,4,6-TRICHLOROPHENOL	N.D.	10	N.D.	--
2,4,5-TRICHLOROPHENOL	N.D.	10	N.D.	--
2-CHLORONAPHTHALENE	N.D.	50	N.D.	--
2-NITROANILINE	N.D.	10	N.D.	--
DIMETHYL PHTHALATE	N.D.	50	N.D.	--
ACENAPHTHYLENE	N.D.	10	N.D.	--
3-NITROANILINE	N.D.	50	N.D.	--
ACENAPHTHENE	N.D.	10	N.D.	81
2,4-DINITROPHENOL	N.D.	50	N.D.	--
4-NITROPHENOL	N.D.	50	N.D.	--
DIBENZOFURAN	N.D.	10	N.D.	--
2,4-DINITROTOLUENE	N.D.	10	N.D.	--
2,6-DINITROTOLUENE	N.D.	20	N.D.	--
DIETHYL PHTHALATE	N.D.	50	N.D.	--
4-CHLOROPHENYL PHENYL ETHER	N.D.	10	N.D.	--
FLUORENE	N.D.	10	N.D.	--
4-NITROANILINE	N.D.	50	N.D.	--
4,6-DINITRO-2-METHYLPHENOL	N.D.	50	N.D.	--

CHROMALAB, INC.

Environmental Services (SDB)

February 26, 1996

Submission #: 9602133
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MCCAMPBELL ANALYTICAL, INC.

Atten: Ed Hamilton

Project: K/5840
Project#: 10-3002-84/002
Received: February 16, 1996

re: One sample for Semivolatile Organics (BNAs) analysis, continued.
Method: EPA 3550/8270

SampleID: CB-4
Sample #: 118406
Matrix: SOIL
Extracted: February 20, 1996
Sampled: February 15, 1996
Run: 10479-A
Analyzed: February 23, 1996

Analyte	RESULT (mg/Kg)	REPORTING LIMIT (mg/Kg)	BLANK RESULT (mg/Kg)	BLANK SPIKE RESULT (%)
N-NITROSO-DI-N-PHENYLAMINE	N.D.	10	N.D.	--
4-BROMOPHENYL PHENYL ETHER	N.D.	10	N.D.	--
HEXACHLOROBENZENE	N.D.	10	N.D.	--
PENTACHLOROPHENOL	N.D.	50	N.D.	43
PHENATHRENE	N.D.	10	N.D.	--
ANTHRACENE	N.D.	10	N.D.	--
DI-N-BUTYL PHTHALATE	N.D.	50	N.D.	--
FLUORANTHENE	N.D.	10	N.D.	--
PYRENE	N.D.	10	N.D.	57
BUTYL BENZYL PHTHALATE	N.D.	50	N.D.	--
3,3'-DICHLOROBENZIDINE	N.D.	20	N.D.	--
BENZO(A)ANTHRACENE	N.D.	10	N.D.	--
BIS(2-ETHYLHEXYL)PHTHALATE	N.D.	50	N.D.	--
CHRYSENE	N.D.	10	N.D.	--
DI-N-OCTYL PHTHALATE	N.D.	50	N.D.	--
BENZO(B)FLUORANTHENE	N.D.	10	N.D.	--
BENZO(K)FLUORANTHENE	N.D.	20	N.D.	--
BENZO(A)PYRENE	N.D.	5	N.D.	--
INDENO(1,2,3 C,D)PYRENE	N.D.	20	N.D.	--
DIBENZ(A,H)ANTHRACENE	N.D.	20	N.D.	--
BENZ(G,H,I)PERYLENE	N.D.	20	N.D.	--

For above analyte: *REPORTING LIMITS RAISED DUE TO MATRIX INTERFERENCE*

Alex Tam
Chemist

Chip Poalinelli
Operations Manager

CHROMALAB, INC.

Environmental Services (SDB)

February 26, 1996 *Submission #:* 9602133

MCCAMPBELL ANALYTICAL, INC.

Atten: Ed Hamilton

Project: K/5840 *Project#:* 10-3002-84/002
Received: February 16, 1996

re: One sample for Semivolatile Organics (BNAs) analysis.
Method: EPA 3510/8270

SampleID: K-1
Sample #: 118407 *Matrix:* WATER *Extracted:* February 20, 1996
Sampled: February 15, 1996 *Run:* 10481-A *Analyzed:* February 21, 1996

Analyte	RESULT (ug/L)	REPORTING LIMIT (ug/L)	BLANK RESULT (ug/L)	BLANK SPIKE RESULT (%)
PHENOL	N.D.	20	N.D.	--
BIS(2-CHLOROETHYL)ETHER	N.D.	20	N.D.	--
2-CHLOROPHENOL	N.D.	20	N.D.	77
1,3-DICHLOROBENZENE	N.D.	20	N.D.	--
1,4-DICHLOROBENZENE	N.D.	20	N.D.	--
BENZYL ALCOHOL	N.D.	50	N.D.	--
1,2-DICHLOROBENZENE	N.D.	20	N.D.	--
o-METHYLPHENOL	N.D.	20	N.D.	--
BIS(2-CHLOROISOPROPYL)ETHER	N.D.	20	N.D.	--
m+p-METHYLPHENOL	N.D.	20	N.D.	--
N-NITROSO-DI-N-PROPYLAMINE	N.D.	20	N.D.	68
HEXACHLOROETHANE	N.D.	20	N.D.	--
NITROBENZENE	N.D.	20	N.D.	--
ISOPHORONE	N.D.	20	N.D.	--
2-NITROPHENOL	N.D.	20	N.D.	--
2,4-DIMETHYL PHENOL	N.D.	20	N.D.	--
BIS(2-CHLOROETHOXY)METHANE	N.D.	50	N.D.	--
2,4-DICHLOROPHENOL	N.D.	20	N.D.	--
1,2,4-TRICHLOROBENZENE	N.D.	20	N.D.	63
NAPHTHALENE	N.D.	20	N.D.	--
4-CHLOROANILINE	N.D.	50	N.D.	--
HEXACHLOROBUTADIENE	N.D.	20	N.D.	--
4-CHLORO-3-METHYLPHENOL	N.D.	40	N.D.	70
2-METHYLNAPHTHALENE	N.D.	20	N.D.	--
HEXACHLOROCYCLOPENTADIENE	N.D.	20	N.D.	--
2,4,6-TRICHLOROPHENOL	N.D.	20	N.D.	--
2,4,5-TRICHLOROPHENOL	N.D.	20	N.D.	--
2-CHLORONAPHTHALENE	N.D.	20	N.D.	--
2-NITROANILINE	N.D.	20	N.D.	--
DIMETHYL PHTHALATE	N.D.	20	N.D.	--
ACENAPHTHYLENE	N.D.	20	N.D.	--
3-NITROANILINE	N.D.	20	N.D.	--
ACENAPHTHENE	N.D.	20	N.D.	71
2,4-DINITROPHENOL	N.D.	100	N.D.	--
4-NITROPHENOL	N.D.	100	N.D.	--
DIBENZOFURAN	N.D.	20	N.D.	--
2,4-DINITROTOLUENE	N.D.	20	N.D.	--
2,6-DINITROTOLUENE	N.D.	50	N.D.	--
DIETHYL PHTHALATE	N.D.	20	N.D.	--
4-CHLOROPHENYLPHENYLETHER	N.D.	20	N.D.	--
FLUORENE	N.D.	50	N.D.	--
4-NITROANILINE	N.D.	20	N.D.	--
4,6-DINITRO-2-METHYLPHENOL	N.D.	100	N.D.	--

CHROMALAB, INC.

Environmental Services (SDB)

February 26, 1996

Submission #: 9602133
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MCCAMPBELL ANALYTICAL, INC.

Atten: Ed Hamilton

Project: K/5840 *Project#:* 10-3002-84/002
Received: February 16, 1996

re: One sample for Semivolatile Organics (BNAs) analysis, continued.
Method: EPA 3510/8270

SampleID: K-1
Sample #: 118407 *Matrix:* WATER *Extracted:* February 20, 1996
Sampled: February 15, 1996 *Run:* 10481-A *Analyzed:* February 21, 1996

Analyte	RESULT (ug/L)	REPORTING LIMIT (ug/L)	BLANK RESULT (ug/L)	BLANK SPIKE RESULT (%)
N-NITROSODI-N-PHENYLAMINE	N.D.	20	N.D.	--
4-BROMOPHENYLPHENYLETHER	N.D.	50	N.D.	--
HEXACHLOROBENZENE	N.D.	20	N.D.	--
PENTACHLOROPHENOL	N.D.	100	N.D.	36
PHENANTHRENE	N.D.	20	N.D.	--
ANTHRACENE	N.D.	20	N.D.	--
DI-N-BUTYL PHTHALATE	N.D.	50	N.D.	--
FLUORANTHENE	N.D.	20	N.D.	--
PYRENE	N.D.	20	N.D.	56
BUTYL BENZYL PHTHALATE	N.D.	20	N.D.	--
3,3'-DICHLOROBENZIDINE	N.D.	50	N.D.	--
BENZO(A)ANTHRACENE	N.D.	20	N.D.	--
BIS(2-ETHYLHEXYL)PHTHALATE	N.D.	20	N.D.	--
CHRYSENE	N.D.	20	N.D.	--
DI-N-OCTYLPHTHALATE	N.D.	50	N.D.	--
BENZO(B)FLUORANTHENE	N.D.	20	N.D.	--
BENZO(K)FLUORANTHENE	N.D.	20	N.D.	--
BENZO(A)PYRENE	N.D.	20	N.D.	--
INDENO(1,2,3-CD)PYRENE	N.D.	20	N.D.	--
DIBENZO(A,H)ANTHRACENE	N.D.	20	N.D.	--
BENZ(GHI)PERYLENE	N.D.	20	N.D.	--
BENZOIC ACID	N.D.	20	N.D.	--

For above analyte: *REPORTING LIMITS RAISED DUE TO MATRIX INTERFERENCE*

Alex Tam
Chemist

Chip Poalinelli
Operations Manager

CHROMALAB, INC.

Environmental Services (SDB)

February 26, 1996 *Submission #:* 9602133

MCCAMPBELL ANALYTICAL, INC.

Atten: Ed Hamilton

Project: K/5840 *Project#:* 10-3002-84/002
Received: February 16, 1996

re: One sample for Semivolatile Organics (BNAs) analysis.
Method: EPA 3550/8270

SampleID: K-9-1
Sample #: 118395 *Matrix:* SOIL *Extracted:* February 20, 1996
Sampled: February 15, 1996 *Run:* 10479-A *Analyzed:* February 22, 1996

Analyte	RESULT (mg/Kg)	REPORTING LIMIT (mg/Kg)	BLANK RESULT (mg/Kg)	BLANK SPIKE RESULT (%)
PHENOL	N.D.	0.10	N.D.	--
BIS(2-CHLOROETHYL)ETHER	N.D.	0.10	N.D.	--
2-CHLOROPHENOL	N.D.	0.10	N.D.	81
1,3-DICHLOROBENZENE	N.D.	0.10	N.D.	--
1,4-DICHLOROBENZENE	N.D.	0.10	N.D.	--
BENZYL ALCOHOL	N.D.	0.20	N.D.	--
1,2-DICHLOROBENZENE	N.D.	0.10	N.D.	--
o-METHYLPHENOL	N.D.	0.10	N.D.	--
BIS(2-CHLOROISOPROPYL)ETHER	N.D.	0.10	N.D.	--
m+p-METHYLPHENOL	N.D.	0.20	N.D.	--
N-NITROSO-DI-N-PROPYLAMINE	N.D.	0.10	N.D.	73
HEXACHLOROETHANE	N.D.	0.10	N.D.	--
NITROBENZENE	N.D.	0.10	N.D.	--
ISOPHORONE	N.D.	0.10	N.D.	--
2-NITROPHENOL	N.D.	0.10	N.D.	--
2,4-DIMETHYLPHENOL	N.D.	0.10	N.D.	--
BIS(2-CHLOROETHOXY)METHANE	N.D.	0.10	N.D.	--
2,4-DICHLOROPHENOL	N.D.	0.10	N.D.	--
1,2,4-TRICHLOROBENZENE	N.D.	0.10	N.D.	69
NAPHTHALENE	N.D.	0.10	N.D.	--
4-CHLOROANILINE	N.D.	0.20	N.D.	--
HEXACHLOROBUTADIENE	N.D.	0.10	N.D.	--
4-CHLORO-3-METHYLPHENOL	N.D.	0.20	N.D.	91
2-METHYLNAPHTHALENE	N.D.	0.10	N.D.	--
HEXACHLOROCYCLOPENTADIENE	N.D.	0.10	N.D.	--
2,4,6-TRICHLOROPHENOL	N.D.	0.10	N.D.	--
2,4,5-TRICHLOROPHENOL	N.D.	0.10	N.D.	--
2-CHLORONAPHTHALENE	N.D.	0.50	N.D.	--
2-NITROANILINE	N.D.	0.10	N.D.	--
DIMETHYL PHTHALATE	N.D.	0.50	N.D.	--
ACENAPHTHYLENE	N.D.	0.10	N.D.	--
3-NITROANILINE	N.D.	0.50	N.D.	--
ACENAPHTHENE	N.D.	0.10	N.D.	81
2,4-DINITROPHENOL	N.D.	0.50	N.D.	--
4-NITROPHENOL	N.D.	0.50	N.D.	--
DIBENZOFURAN	N.D.	0.10	N.D.	--
2,4-DINITROTOLUENE	N.D.	0.10	N.D.	--
2,6-DINITROTOLUENE	N.D.	0.20	N.D.	--
DIETHYL PHTHALATE	N.D.	0.50	N.D.	--
4-CHLOROPHENYL PHENYL ETHER	N.D.	0.10	N.D.	--
FLUORENE	N.D.	0.10	N.D.	--
4-NITROANILINE	N.D.	0.50	N.D.	--
4,6-DINITRO-2-METHYLPHENOL	N.D.	0.50	N.D.	--

CHROMALAB, INC.

Environmental Services (SDB)

February 26, 1996

Submission #: 9602133
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MCCAMPBELL ANALYTICAL, INC.

Atten: Ed Hamilton

Project: K/5840 *Project#:* 10-3002-84/002
Received: February 16, 1996

re: One sample for Semivolatile Organics (BNAs) analysis, continued.
Method: EPA 3550/8270

SampleID: K-9-1
Sample #: 118395 *Matrix:* SOIL *Extracted:* February 20, 1996
Sampled: February 15, 1996 *Run:* 10479-A *Analyzed:* February 22, 1996

Analyte	RESULT (mg/Kg)	REPORTING LIMIT (mg/Kg)	BLANK RESULT (mg/Kg)	BLANK SPIKE RESULT (%)
N-NITROSO-DI-N-PHENYLAMINE	N.D.	0.10	N.D.	--
4-BROMOPHENYL PHENYL ETHER	N.D.	0.10	N.D.	--
HEXACHLOROBENZENE	N.D.	0.10	N.D.	--
PENTACHLOROPHENOL	N.D.	0.50	N.D.	43
PHENATHRENE	N.D.	0.10	N.D.	--
ANTHRACENE	N.D.	0.10	N.D.	--
DI-N-BUTYL PHTHALATE	N.D.	0.50	N.D.	--
FLUORANTHENE	N.D.	0.10	N.D.	--
PYRENE	N.D.	0.10	N.D.	57
BUTYL BENZYL PHTHALATE	N.D.	0.50	N.D.	--
3,3'-DICHLOROBENZIDINE	N.D.	0.20	N.D.	--
BENZO(A)ANTHRACENE	N.D.	0.10	N.D.	--
BIS(2-ETHYLHEXYL)PHTHALATE	N.D.	0.50	N.D.	--
CHRYSENE	N.D.	0.10	N.D.	--
DI-N-OCTYL PHTHALATE	N.D.	0.50	N.D.	--
BENZO(B)FLUORANTHENE	N.D.	0.10	N.D.	--
BENZO(K)FLUORANTHENE	N.D.	0.20	N.D.	--
BENZO(A)PYRENE	N.D.	0.05	N.D.	--
INDENO(1,2,3 C,D)PYRENE	N.D.	0.20	N.D.	--
DIBENZ(A,H)ANTHRACENE	N.D.	0.20	N.D.	--
BENZ(G,H,I)PERYLENE	N.D.	0.20	N.D.	--

Alex Tam
Chemist

Chip Poalinelli
Operations Manager

CHROMALAB, INC.

Environmental Services (SDB)

February 26, 1996 *Submission #:* 9602133

MCCAMPBELL ANALYTICAL, INC.

Atten: Ed Hamilton

Project: K/5840 *Project#:* 10-3002-84/002
Received: February 16, 1996

re: One sample for Semivolatile Organics (BNAs) analysis.
Method: EPA 3550/8270

SampleID: K-8-1
Sample #: 118396 *Matrix:* SOIL *Extracted:* February 20, 1996
Sampled: February 15, 1996 *Run:* 10479-A *Analyzed:* February 22, 1996

Analyte	RESULT (mg/Kg)	REPORTING LIMIT (mg/Kg)	BLANK RESULT (mg/Kg)	BLANK SPIKE RESULT (%)
PHENOL	N.D.	0.10	N.D.	--
BIS(2-CHLOROETHYL)ETHER	N.D.	0.10	N.D.	--
2-CHLOROPHENOL	N.D.	0.10	N.D.	81
1,3-DICHLOROBENZENE	N.D.	0.10	N.D.	--
1,4-DICHLOROBENZENE	N.D.	0.10	N.D.	--
BENZYL ALCOHOL	N.D.	0.20	N.D.	--
1,2-DICHLOROBENZENE	N.D.	0.10	N.D.	--
o-METHYLPHENOL	N.D.	0.10	N.D.	--
BIS(2-CHLOROISOPROPYL)ETHER	N.D.	0.10	N.D.	--
m+p-METHYLPHENOL	N.D.	0.20	N.D.	--
N-NITROSO-DI-N-PROPYLAMINE	N.D.	0.10	N.D.	73
HEXACHLOROETHANE	N.D.	0.10	N.D.	--
NITROBENZENE	N.D.	0.10	N.D.	--
ISOPHORONE	N.D.	0.10	N.D.	--
2-NITROPHENOL	N.D.	0.10	N.D.	--
2,4-DIMETHYLPHENOL	N.D.	0.10	N.D.	--
BIS(2-CHLOROETHOXY)METHANE	N.D.	0.10	N.D.	--
2,4-DICHLOROPHENOL	N.D.	0.10	N.D.	--
1,2,4-TRICHLOROBENZENE	N.D.	0.10	N.D.	69
NAPHTHALENE	N.D.	0.10	N.D.	--
4-CHLOROANILINE	N.D.	0.20	N.D.	--
HEXACHLOROBUTADIENE	N.D.	0.10	N.D.	--
4-CHLORO-3-METHYLPHENOL	N.D.	0.20	N.D.	91
2-METHYLNAPHTHALENE	N.D.	0.10	N.D.	--
HEXACHLOROCYCLOPENTADIENE	N.D.	0.10	N.D.	--
2,4,6-TRICHLOROPHENOL	N.D.	0.10	N.D.	--
2,4,5-TRICHLOROPHENOL	N.D.	0.10	N.D.	--
2-CHLORONAPHTHALENE	N.D.	0.50	N.D.	--
2-NITROANILINE	N.D.	0.10	N.D.	--
DIMETHYL PHTHALATE	N.D.	0.50	N.D.	--
ACENAPHTHYLENE	N.D.	0.10	N.D.	--
3-NITROANILINE	N.D.	0.50	N.D.	--
ACENAPHTHENE	N.D.	0.10	N.D.	81
2,4-DINITROPHENOL	N.D.	0.50	N.D.	--
4-NITROPHENOL	N.D.	0.50	N.D.	--
DIBENZOFURAN	N.D.	0.10	N.D.	--
2,4-DINITROTOLUENE	N.D.	0.10	N.D.	--
2,6-DINITROTOLUENE	N.D.	0.20	N.D.	--
DIETHYL PHTHALATE	N.D.	0.50	N.D.	--
4-CHLOROPHENYL PHENYL ETHER	N.D.	0.10	N.D.	--
FLUORENE	N.D.	0.10	N.D.	--
4-NITROANILINE	N.D.	0.50	N.D.	--
4,6-DINITRO-2-METHYLPHENOL	N.D.	0.50	N.D.	--

CHROMALAB, INC.

Environmental Services (SDB)

February 26, 1996

Submission #: 9602133
page 2

MCCAMPBELL ANALYTICAL, INC.

Atten: Ed Hamilton

Project: K/5840 *Project#:* 10-3002-84/002
Received: February 16, 1996

re: One sample for Semivolatile Organics (BNAs) analysis, continued.
Method: EPA 3550/8270

SampleID: **K-8-1**
Sample #: 118396 *Matrix:* SOIL *Extracted:* February 20, 1996
Sampled: February 15, 1996 *Run:* 10479-A *Analyzed:* February 22, 1996

Analyte	RESULT (mg/Kg)	REPORTING LIMIT (mg/Kg)	BLANK RESULT (mg/Kg)	BLANK SPIKE RESULT (%)
N-NITROSO-DI-N-PHENYLAMINE	N.D.	0.10	N.D.	--
4-BROMOPHENYL PHENYL ETHER	N.D.	0.10	N.D.	--
HEXACHLOROBENZENE	N.D.	0.10	N.D.	--
PENTACHLOROPHENOL	N.D.	0.50	N.D.	43
PHENATHRENE	N.D.	0.10	N.D.	--
ANTHRACENE	N.D.	0.10	N.D.	--
DI-N-BUTYL PHTHALATE	N.D.	0.50	N.D.	--
FLUORANTHENE	N.D.	0.10	N.D.	--
PYRENE	N.D.	0.10	N.D.	57
BUTYL BENZYL PHTHALATE	N.D.	0.50	N.D.	--
3,3'-DICHLOROBENZIDINE	N.D.	0.20	N.D.	--
BENZO(A)ANTHRACENE	N.D.	0.10	N.D.	--
BIS(2-ETHYLHEXYL)PHTHALATE	N.D.	0.50	N.D.	--
CHRYSENE	N.D.	0.10	N.D.	--
DI-N-OCTYL PHTHALATE	N.D.	0.50	N.D.	--
BENZO(B)FLUORANTHENE	N.D.	0.10	N.D.	--
BENZO(K)FLUORANTHENE	N.D.	0.20	N.D.	--
BENZO(A)PYRENE	N.D.	0.05	N.D.	--
INDENO(1,2,3 C,D)PYRENE	N.D.	0.20	N.D.	--
DIBENZ(A,H)ANTHRACENE	N.D.	0.20	N.D.	--
BENZ(G,H,I)PERYLENE	N.D.	0.20	N.D.	--

Alex Tam
Chemist

Chip Poalinelli
Operations Manager

CHROMALAB, INC.

Environmental Services (SDB)

February 26, 1996 *Submission #:* 9602133

MCCAMPBELL ANALYTICAL, INC.

Atten: Ed Hamilton

Project: K/5840 *Project#:* 10-3002-84/002
Received: February 16, 1996

re: One sample for Semivolatile Organics (BNAs) analysis.
Method: EPA 3550/8270

SampleID: **K-7-1**
Sample #: 118397 *Matrix:* SOIL *Extracted:* February 20, 1996
Sampled: February 15, 1996 *Run:* 10479-A *Analyzed:* February 22, 1996

Analyte	RESULT (mg/Kg)	REPORTING LIMIT (mg/Kg)	BLANK RESULT (mg/Kg)	BLANK SPIKE RESULT (%)
PHENOL	N.D.	0.10	N.D.	--
BIS(2-CHLOROETHYL)ETHER	N.D.	0.10	N.D.	--
2-CHLOROPHENOL	N.D.	0.10	N.D.	81
1,3-DICHLOROBENZENE	N.D.	0.10	N.D.	--
1,4-DICHLOROBENZENE	N.D.	0.10	N.D.	--
BENZYL ALCOHOL	N.D.	0.20	N.D.	--
1,2-DICHLOROBENZENE	N.D.	0.10	N.D.	--
o-METHYLPHENOL	N.D.	0.10	N.D.	--
BIS(2-CHLOROISOPROPYL)ETHER	N.D.	0.10	N.D.	--
m+p-METHYLPHENOL	N.D.	0.20	N.D.	--
N-NITROSO-DI-N-PROPYLAMINE	N.D.	0.10	N.D.	73
HEXACHLOROETHANE	N.D.	0.10	N.D.	--
NITROBENZENE	N.D.	0.10	N.D.	--
ISOPHORONE	N.D.	0.10	N.D.	--
2-NITROPHENOL	N.D.	0.10	N.D.	--
2,4-DIMETHYLPHENOL	N.D.	0.10	N.D.	--
BIS(2-CHLOROETHOXY)METHANE	N.D.	0.10	N.D.	--
2,4-DICHLOROPHENOL	N.D.	0.10	N.D.	--
1,2,4-TRICHLOROBENZENE	N.D.	0.10	N.D.	69
NAPHTHALENE	N.D.	0.10	N.D.	--
4-CHLOROANILINE	N.D.	0.20	N.D.	--
HEXACHLOROBUTADIENE	N.D.	0.10	N.D.	--
4-CHLORO-3-METHYLPHENOL	N.D.	0.20	N.D.	91
2-METHYLNAPHTHALENE	N.D.	0.10	N.D.	--
HEXACHLOROCYCLOPENTADIENE	N.D.	0.10	N.D.	--
2,4,6-TRICHLOROPHENOL	N.D.	0.10	N.D.	--
2,4,5-TRICHLOROPHENOL	N.D.	0.10	N.D.	--
2-CHLORONAPHTHALENE	N.D.	0.50	N.D.	--
2-NITROANILINE	N.D.	0.10	N.D.	--
DIMETHYL PHTHALATE	N.D.	0.50	N.D.	--
ACENAPHTHYLENE	N.D.	0.10	N.D.	--
3-NITROANILINE	N.D.	0.50	N.D.	--
ACENAPHTHENE	N.D.	0.10	N.D.	81
2,4-DINITROPHENOL	N.D.	0.50	N.D.	--
4-NITROPHENOL	N.D.	0.50	N.D.	--
DIBENZOFURAN	N.D.	0.10	N.D.	--
2,4-DINITROTOLUENE	N.D.	0.10	N.D.	--
2,6-DINITROTOLUENE	N.D.	0.20	N.D.	--
DIETHYL PHTHALATE	N.D.	0.50	N.D.	--
4-CHLOROPHENYL PHENYL ETHER	N.D.	0.10	N.D.	--
FLUORENE	N.D.	0.10	N.D.	--
4-NITROANILINE	N.D.	0.50	N.D.	--
4,6-DINITRO-2-METHYLPHENOL	N.D.	0.50	N.D.	--

CHROMALAB, INC.

Environmental Services (SDB)

February 26, 1996

MCCAMPBELL ANALYTICAL, INC.

Atten: Ed Hamilton

Project: K/5840 *Project#:* 10-3002-84/002
Received: February 16, 1996

re: One sample for Semivolatile Organics (BNAs) analysis, continued.
Method: EPA 3550/8270

SampleID: K-7-1
Sample #: 118397 *Matrix:* SOIL *Extracted:* February 20, 1996
Sampled: February 15, 1996 *Run:* 10479-A *Analyzed:* February 22, 1996

Analyte	RESULT (mg/Kg)	REPORTING LIMIT (mg/Kg)	BLANK RESULT (mg/Kg)	BLANK SPIKE RESULT (%)
N-NITROSO-DI-N-PHENYLAMINE	N.D.	0.10	N.D.	--
4-BROMOPHENYL PHENYL ETHER	N.D.	0.10	N.D.	--
HEXACHLOROBENZENE	N.D.	0.10	N.D.	--
PENTACHLOROPHENOL	N.D.	0.50	N.D.	43
PHENATHRENE	N.D.	0.10	N.D.	--
ANTHRACENE	N.D.	0.10	N.D.	--
DI-N-BUTYL PHTHALATE	N.D.	0.50	N.D.	--
FLUORANTHENE	N.D.	0.10	N.D.	--
PYRENE	N.D.	0.10	N.D.	57
BUTYL BENZYL PHTHALATE	N.D.	0.50	N.D.	--
3,3'-DICHLOROBENZIDINE	N.D.	0.20	N.D.	--
BENZO(A)ANTHRACENE	N.D.	0.10	N.D.	--
BIS(2-ETHYLHEXYL)PHTHALATE	N.D.	0.50	N.D.	--
CHRYSENE	N.D.	0.10	N.D.	--
DI-N-OCTYL PHTHALATE	N.D.	0.50	N.D.	--
BENZO(B)FLUORANTHENE	N.D.	0.10	N.D.	--
BENZO(K)FLUORANTHENE	N.D.	0.20	N.D.	--
BENZO(A)PYRENE	N.D.	0.05	N.D.	--
INDENO(1,2,3 C,D)PYRENE	N.D.	0.20	N.D.	--
DIBENZ(A,H)ANTHRACENE	N.D.	0.20	N.D.	--
BENZ(G,H,I)PERYLENE	N.D.	0.20	N.D.	--

Alex Tam
Chemist

Chip Poalinelli
Operations Manager

CHROMALAB, INC.

Environmental Services (SDB)

February 26, 1996 *Submission #:* 9602133

MCCAMPBELL ANALYTICAL, INC.

Atten: Ed Hamilton

Project: K/5840 *Project#:* 10-3002-84/002
Received: February 16, 1996

re: One sample for Semivolatile Organics (BNAs) analysis.
Method: EPA 3550/8270

SampleID: K-6-1
Sample #: 118398 *Matrix:* SOIL *Extracted:* February 20, 1996
Sampled: February 15, 1996 *Run:* 10479-A *Analyzed:* February 22, 1996

Analyte	RESULT (mg/Kg)	REPORTING LIMIT (mg/Kg)	BLANK RESULT (mg/Kg)	BLANK SPIKE RESULT (%)
PHENOL	N.D.	0.10	N.D.	--
BIS(2-CHLOROETHYL)ETHER	N.D.	0.10	N.D.	--
2-CHLOROPHENOL	N.D.	0.10	N.D.	81
1,3-DICHLOROBENZENE	N.D.	0.10	N.D.	--
1,4-DICHLOROBENZENE	N.D.	0.10	N.D.	--
BENZYL ALCOHOL	N.D.	0.20	N.D.	--
1,2-DICHLOROBENZENE	N.D.	0.10	N.D.	--
o-METHYLPHENOL	N.D.	0.10	N.D.	--
BIS(2-CHLOROISOPROPYL)ETHER	N.D.	0.10	N.D.	--
m+p-METHYLPHENOL	N.D.	0.20	N.D.	--
N-NITROSO-DI-N-PROPYLAMINE	N.D.	0.10	N.D.	73
HEXACHLOROETHANE	N.D.	0.10	N.D.	--
NITROBENZENE	N.D.	0.10	N.D.	--
ISOPHORONE	N.D.	0.10	N.D.	--
2-NITROPHENOL	N.D.	0.10	N.D.	--
2,4-DIMETHYLPHENOL	N.D.	0.10	N.D.	--
BIS(2-CHLOROETHOXY)METHANE	N.D.	0.10	N.D.	--
2,4-DICHLOROPHENOL	N.D.	0.10	N.D.	--
1,2,4-TRICHLOROBENZENE	N.D.	0.10	N.D.	69
NAPHTHALENE	N.D.	0.10	N.D.	--
4-CHLOROANILINE	N.D.	0.20	N.D.	--
HEXACHLOROBUTADIENE	N.D.	0.10	N.D.	--
4-CHLORO-3-METHYLPHENOL	N.D.	0.20	N.D.	91
2-METHYLNAPHTHALENE	N.D.	0.10	N.D.	--
HEXACHLOROCYCLOPENTADIENE	N.D.	0.10	N.D.	--
2,4,6-TRICHLOROPHENOL	N.D.	0.10	N.D.	--
2,4,5-TRICHLOROPHENOL	N.D.	0.10	N.D.	--
2-CHLORONAPHTHALENE	N.D.	0.50	N.D.	--
2-NITROANILINE	N.D.	0.10	N.D.	--
DIMETHYL PHTHALATE	N.D.	0.50	N.D.	--
ACENAPHTHYLENE	N.D.	0.10	N.D.	--
3-NITROANILINE	N.D.	0.50	N.D.	--
ACENAPHTHENE	N.D.	0.10	N.D.	81
2,4-DINITROPHENOL	N.D.	0.50	N.D.	--
4-NITROPHENOL	N.D.	0.50	N.D.	--
DIBENZOFURAN	N.D.	0.10	N.D.	--
2,4-DINITROTOLUENE	N.D.	0.10	N.D.	--
2,6-DINITROTOLUENE	N.D.	0.20	N.D.	--
DIETHYL PHTHALATE	N.D.	0.50	N.D.	--
4-CHLOROPHENYL PHENYL ETHER	N.D.	0.10	N.D.	--
FLUORENE	N.D.	0.10	N.D.	--
4-NITROANILINE	N.D.	0.50	N.D.	--
4,6-DINITRO-2-METHYLPHENOL	N.D.	0.50	N.D.	--

CHROMALAB, INC.

Environmental Services (SDB)

February 26, 1996

Submission #: 9602133
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MCCAMPBELL ANALYTICAL, INC.

Atten: Ed Hamilton

Project: K/5840 *Project#:* 10-3002-84/002
Received: February 16, 1996

re: One sample for Semivolatile Organics (BNAs) analysis, continued.
Method: EPA 3550/8270

SampleID: **K-6-1**
Sample #: 118398 *Matrix:* SOIL *Extracted:* February 20, 1996
Sampled: February 15, 1996 *Run:* 10479-A *Analyzed:* February 22, 1996

Analyte	RESULT (mg/Kg)	REPORTING LIMIT (mg/Kg)	BLANK RESULT (mg/Kg)	BLANK SPIKE RESULT (%)
N-NITROSO-DI-N-PHENYLAMINE	N.D.	0.10	N.D.	--
4-BROMOPHENYL PHENYL ETHER	N.D.	0.10	N.D.	--
HEXACHLOROBENZENE	N.D.	0.10	N.D.	--
PENTACHLOROPHENOL	N.D.	0.50	N.D.	43
PHENATHRENE	N.D.	0.10	N.D.	--
ANTHRACENE	N.D.	0.10	N.D.	--
DI-N-BUTYL PHTHALATE	N.D.	0.50	N.D.	--
FLUORANTHENE	N.D.	0.10	N.D.	--
PYRENE	N.D.	0.10	N.D.	57
BUTYL BENZYL PHTHALATE	N.D.	0.50	N.D.	--
3,3'-DICHLOROBENZIDINE	N.D.	0.20	N.D.	--
BENZO(A)ANTHRACENE	N.D.	0.10	N.D.	--
BIS(2-ETHYLHEXYL)PHTHALATE	N.D.	0.50	N.D.	--
CHRYSENE	N.D.	0.10	N.D.	--
DI-N-OCTYL PHTHALATE	N.D.	0.50	N.D.	--
BENZO(B)FLUORANTHENE	N.D.	0.10	N.D.	--
BENZO(K)FLUORANTHENE	N.D.	0.20	N.D.	--
BENZO(A)PYRENE	N.D.	0.05	N.D.	--
INDENO(1,2,3 C,D)PYRENE	N.D.	0.20	N.D.	--
DIBENZ(A,H)ANTHRACENE	N.D.	0.20	N.D.	--
BENZ(G,H,I)PERYLENE	N.D.	0.20	N.D.	--

Alex Tam
Chemist

Chip Poalinelli
Operations Manager

CHROMALAB, INC.

Environmental Services (SDB)

February 26, 1996 *Submission #:* 9602133

MCCAMPBELL ANALYTICAL, INC.

Atten: Ed Hamilton

Project: K/5840 *Project#:* 10-3002-84/002
Received: February 16, 1996

re: One sample for Semivolatile Organics (BNAs) analysis.
Method: EPA 3550/8270

SampleID: **K-5-1**
Sample #: 118399 *Matrix:* SOIL *Extracted:* February 20, 1996
Sampled: February 15, 1996 *Run:* 10479-A *Analyzed:* February 22, 1996

Analyte	RESULT (mg/Kg)	REPORTING LIMIT (mg/Kg)	BLANK RESULT (mg/Kg)	BLANK SPIKE RESULT (%)
PHENOL	N.D.	10	N.D.	--
BIS(2-CHLOROETHYL)ETHER	N.D.	10	N.D.	--
2-CHLOROPHENOL	N.D.	10	N.D.	81
1,3-DICHLOROBENZENE	N.D.	10	N.D.	--
1,4-DICHLOROBENZENE	N.D.	10	N.D.	--
BENZYL ALCOHOL	N.D.	20	N.D.	--
1,2-DICHLOROBENZENE	N.D.	10	N.D.	--
o-METHYLPHENOL	N.D.	10	N.D.	--
BIS(2-CHLOROISOPROPYL)ETHER	N.D.	10	N.D.	--
m+p-METHYLPHENOL	N.D.	20	N.D.	--
N-NITROSO-DI-N-PROPYLAMINE	N.D.	10	N.D.	73
HEXACHLOROETHANE	N.D.	10	N.D.	--
NITROBENZENE	N.D.	10	N.D.	--
ISOPHORONE	N.D.	10	N.D.	--
2-NITROPHENOL	N.D.	10	N.D.	--
2,4-DIMETHYLPHENOL	N.D.	10	N.D.	--
BIS(2-CHLOROETHOXY)METHANE	N.D.	10	N.D.	--
2,4-DICHLOROPHENOL	N.D.	10	N.D.	--
1,2,4-TRICHLOROBENZENE	N.D.	10	N.D.	69
NAPHTHALENE	N.D.	10	N.D.	--
4-CHLOROANILINE	N.D.	20	N.D.	--
HEXACHLOROBUTADIENE	N.D.	10	N.D.	--
4-CHLORO-3-METHYLPHENOL	N.D.	20	N.D.	91
2-METHYLNAPHTHALENE	N.D.	10	N.D.	--
HEXACHLOROCYCLOPENTADIENE	N.D.	10	N.D.	--
2,4,6-TRICHLOROPHENOL	N.D.	10	N.D.	--
2,4,5-TRICHLOROPHENOL	N.D.	10	N.D.	--
2-CHLORONAPHTHALENE	N.D.	50	N.D.	--
2-NITROANILINE	N.D.	10	N.D.	--
DIMETHYL PHTHALATE	N.D.	50	N.D.	--
ACENAPHTHYLENE	N.D.	10	N.D.	--
3-NITROANILINE	N.D.	50	N.D.	--
ACENAPHTHENE	N.D.	10	N.D.	81
2,4-DINITROPHENOL	N.D.	50	N.D.	--
4-NITROPHENOL	N.D.	50	N.D.	--
DIBENZOFURAN	N.D.	10	N.D.	--
2,4-DINITROTOLUENE	N.D.	10	N.D.	--
2,6-DINITROTOLUENE	N.D.	20	N.D.	--
DIETHYL PHTHALATE	N.D.	50	N.D.	--
4-CHLOROPHENYL PHENYL ETHER	N.D.	10	N.D.	--
FLUORENE	N.D.	10	N.D.	--
4-NITROANILINE	N.D.	50	N.D.	--
4,6-DINITRO-2-METHYLPHENOL	N.D.	50	N.D.	--

CHROMALAB, INC.

Environmental Services (SDB)

February 26, 1996

Submission #: 9602133
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MCCAMPBELL ANALYTICAL, INC.

Atten: Ed Hamilton

Project: K/5840 *Project#:* 10-3002-84/002
Received: February 16, 1996

re: One sample for Semivolatile Organics (BNAs) analysis, continued.
Method: EPA 3550/8270

SampleID: K-5-1
Sample #: 118399 *Matrix:* SOIL *Extracted:* February 20, 1996
Sampled: February 15, 1996 *Run:* 10479-A *Analyzed:* February 22, 1996

Analyte	RESULT (mg/Kg)	REPORTING LIMIT (mg/Kg)	BLANK RESULT (mg/Kg)	BLANK SPIKE RESULT (%)
N-NITROSO-DI-N-PHENYLAMINE	N.D.	10	N.D.	--
4-BROMOPHENYL PHENYL ETHER	N.D.	10	N.D.	--
HEXACHLOROBENZENE	N.D.	10	N.D.	--
PENTACHLOROPHENOL	N.D.	50	N.D.	43
PHENATHRENE	N.D.	10	N.D.	--
ANTHRACENE	N.D.	10	N.D.	--
DI-N-BUTYL PHTHALATE	N.D.	50	N.D.	--
FLUORANTHENE	N.D.	10	N.D.	--
PYRENE	N.D.	10	N.D.	57
BUTYL BENZYL PHTHALATE	N.D.	50	N.D.	--
3,3'-DICHLOROBENZIDINE	N.D.	20	N.D.	--
BENZO(A)ANTHRACENE	N.D.	10	N.D.	--
BIS(2-ETHYLHEXYL)PHTHALATE	N.D.	50	N.D.	--
CHRYSENE	N.D.	10	N.D.	--
DI-N-OCTYL PHTHALATE	N.D.	50	N.D.	--
BENZO(B)FLUORANTHENE	N.D.	10	N.D.	--
BENZO(K)FLUORANTHENE	N.D.	20	N.D.	--
BENZO(A)PYRENE	N.D.	0.5	N.D.	--
INDENO(1,2,3 C,D)PYRENE	N.D.	20	N.D.	--
DIBENZ(A,H)ANTHRACENE	N.D.	20	N.D.	--
BENZ(G,H,I)PERYLENE	N.D.	20	N.D.	--

For above analyte: *REPORTING LIMITS RAISED DUE TO MATRIX INTERFERENCE*

Alex Tam
Chemist

Chip Poalinelli
Operations Manager

CHROMALAB, INC.

Environmental Services (SDB)

February 26, 1996 *Submission #:* 9602133

MCCAMPBELL ANALYTICAL, INC.

Atten: Ed Hamilton

Project: K/5840 *Project#:* 10-3002-84/002
Received: February 16, 1996

re: One sample for Semivolatile Organics (BNAs) analysis.
Method: EPA 3550/8270

SampleID: K-3-1
Sample #: 118400 *Matrix:* SOIL *Extracted:* February 20, 1996
Sampled: February 15, 1996 *Run:* 10479-A *Analyzed:* February 23, 1996

Analyte	RESULT (mg/Kg)	REPORTING LIMIT (mg/Kg)	BLANK RESULT (mg/Kg)	BLANK SPIKE RESULT (%)
PHENOL	N.D.	10	N.D.	--
BIS(2-CHLOROETHYL)ETHER	N.D.	10	N.D.	--
2-CHLOROPHENOL	N.D.	10	N.D.	81
1,3-DICHLOROBENZENE	N.D.	10	N.D.	--
1,4-DICHLOROBENZENE	N.D.	10	N.D.	--
BENZYL ALCOHOL	N.D.	20	N.D.	--
1,2-DICHLOROBENZENE	N.D.	10	N.D.	--
o-METHYLPHENOL	N.D.	10	N.D.	--
BIS(2-CHLOROISOPROPYL)ETHER	N.D.	10	N.D.	--
m+p-METHYLPHENOL	N.D.	20	N.D.	--
N-NITROSO-DI-N-PROPYLAMINE	N.D.	10	N.D.	73
HEXACHLOROETHANE	N.D.	10	N.D.	--
NITROBENZENE	N.D.	10	N.D.	--
ISOPHORONE	N.D.	10	N.D.	--
2-NITROPHENOL	N.D.	10	N.D.	--
2,4-DIMETHYLPHENOL	N.D.	10	N.D.	--
BIS(2-CHLOROETHOXY)METHANE	N.D.	10	N.D.	--
2,4-DICHLOROPHENOL	N.D.	10	N.D.	--
1,2,4-TRICHLOROBENZENE	N.D.	10	N.D.	69
NAPHTHALENE	N.D.	10	N.D.	--
4-CHLOROANILINE	N.D.	20	N.D.	--
HEXACHLOROBUTADIENE	N.D.	10	N.D.	--
4-CHLORO-3-METHYLPHENOL	N.D.	20	N.D.	91
2-METHYLNAPHTHALENE	N.D.	10	N.D.	--
HEXACHLOROCYCLOPENTADIENE	N.D.	10	N.D.	--
2,4,6-TRICHLOROPHENOL	N.D.	10	N.D.	--
2,4,5-TRICHLOROPHENOL	N.D.	10	N.D.	--
2-CHLORONAPHTHALENE	N.D.	50	N.D.	--
2-NITROANILINE	N.D.	10	N.D.	--
DIMETHYL PHTHALATE	N.D.	50	N.D.	--
ACENAPHTHYLENE	N.D.	10	N.D.	--
3-NITROANILINE	N.D.	50	N.D.	--
ACENAPHTHENE	N.D.	10	N.D.	81
2,4-DINITROPHENOL	N.D.	50	N.D.	--
4-NITROPHENOL	N.D.	50	N.D.	--
DIBENZOFURAN	N.D.	10	N.D.	--
2,4-DINITROTOLUENE	N.D.	10	N.D.	--
2,6-DINITROTOLUENE	N.D.	20	N.D.	--
DIETHYL PHTHALATE	N.D.	50	N.D.	--
4-CHLOROPHENYL PHENYL ETHER	N.D.	10	N.D.	--
FLUORENE	N.D.	10	N.D.	--
4-NITROANILINE	N.D.	50	N.D.	--
4,6-DINITRO-2-METHYLPHENOL	N.D.	50	N.D.	--

CHROMALAB, INC.

Environmental Services (SDB)

February 26, 1996

Submission #: 9602133
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MCCAMPBELL ANALYTICAL, INC.

Atten: Ed Hamilton

Project: K/5840 *Project#:* 10-3002-84/002
Received: February 16, 1996

re: One sample for Semivolatile Organics (BNAs) analysis, continued.
Method: EPA 3550/8270

SampleID: K-3-1
Sample #: 118400 *Matrix:* SOIL *Extracted:* February 20, 1996
Sampled: February 15, 1996 *Run:* 10479-A *Analyzed:* February 23, 1996

Analyte	RESULT (mg/Kg)	REPORTING LIMIT (mg/Kg)	BLANK RESULT (mg/Kg)	BLANK SPIKE RESULT (%)
N-NITROSO-DI-N-PHENYLAMINE	N.D.	10	N.D.	--
4-BROMOPHENYL PHENYL ETHER	N.D.	10	N.D.	--
HEXACHLOROBENZENE	N.D.	10	N.D.	--
PENTACHLOROPHENOL	N.D.	50	N.D.	43
PHENATHRENE	N.D.	10	N.D.	--
ANTHRACENE	N.D.	10	N.D.	--
DI-N-BUTYL PHTHALATE	N.D.	50	N.D.	--
FLUORANTHENE	N.D.	10	N.D.	--
PYRENE	N.D.	10	N.D.	57
BUTYL BENZYL PHTHALATE	N.D.	50	N.D.	--
3,3'-DICHLOROBENZIDINE	N.D.	20	N.D.	--
BENZO(A)ANTHRACENE	N.D.	10	N.D.	--
BIS(2-ETHYLHEXYL)PHTHALATE	N.D.	50	N.D.	--
CHRYSENE	N.D.	10	N.D.	--
DI-N-OCTYL PHTHALATE	N.D.	50	N.D.	--
BENZO(B)FLUORANTHENE	N.D.	10	N.D.	--
BENZO(K)FLUORANTHENE	N.D.	20	N.D.	--
BENZO(A)PYRENE	N.D.	0.5	N.D.	--
INDENO(1,2,3 C,D)PYRENE	N.D.	20	N.D.	--
DIBENZ(A,H)ANTHRACENE	N.D.	20	N.D.	--
BENZ(G,H,I)PERYLENE	N.D.	20	N.D.	--

For above analyte: *REPORTING LIMITS RAISED DUE TO MATRIX INTERFERENCE*

Alex Tam
Chemist

Chip Poalinelli
Operations Manager

CHROMALAB, INC.

Environmental Services (SDB)

February 26, 1996 *Submission #:* 9602133

MCCAMPBELL ANALYTICAL, INC.

Atten: Ed Hamilton

Project: K/5840 *Project#:* 10-3002-84/002
Received: February 16, 1996

re: One sample for Semivolatile Organics (BNAs) analysis.
Method: EPA 3550/8270

SampleID: K-4-1.5
Sample #: 118401 *Matrix:* SOIL *Extracted:* February 20, 1996
Sampled: February 15, 1996 *Run:* 10479-A *Analyzed:* February 23, 1996

Analyte	RESULT (mg/Kg)	REPORTING LIMIT (mg/Kg)	BLANK RESULT (mg/Kg)	BLANK SPIKE RESULT (%)
PHENOL	N.D.	0.50	N.D.	--
BIS(2-CHLOROETHYL)ETHER	N.D.	0.50	N.D.	--
2-CHLOROPHENOL	N.D.	0.50	N.D.	81
1,3-DICHLOROBENZENE	N.D.	0.50	N.D.	--
1,4-DICHLOROBENZENE	N.D.	0.50	N.D.	--
BENZYL ALCOHOL	N.D.	1.0	N.D.	--
1,2-DICHLOROBENZENE	N.D.	0.50	N.D.	--
o-METHYLPHENOL	N.D.	0.50	N.D.	--
BIS(2-CHLOROISOPROPYL)ETHER	N.D.	0.50	N.D.	--
m+p-METHYLPHENOL	N.D.	1.0	N.D.	--
N-NITROSO-DI-N-PROPYLAMINE	N.D.	0.50	N.D.	73
HEXACHLOROETHANE	N.D.	0.50	N.D.	--
NITROBENZENE	N.D.	0.50	N.D.	--
ISOPHORONE	N.D.	0.50	N.D.	--
2-NITROPHENOL	N.D.	0.50	N.D.	--
2,4-DIMETHYLPHENOL	N.D.	0.50	N.D.	--
BIS(2-CHLOROETHOXY)METHANE	N.D.	0.50	N.D.	--
2,4-DICHLOROPHENOL	N.D.	0.50	N.D.	--
1,2,4-TRICHLOROBENZENE	N.D.	0.50	N.D.	69
NAPHTHALENE	N.D.	0.50	N.D.	--
4-CHLOROANILINE	N.D.	1.0	N.D.	--
HEXACHLOROBUTADIENE	N.D.	0.50	N.D.	--
4-CHLORO-3-METHYLPHENOL	N.D.	1.0	N.D.	91
2-METHYLNAPHTHALENE	N.D.	0.50	N.D.	--
HEXACHLOROCYCLOPENTADIENE	N.D.	0.50	N.D.	--
2,4,6-TRICHLOROPHENOL	N.D.	0.50	N.D.	--
2,4,5-TRICHLOROPHENOL	N.D.	0.50	N.D.	--
2-CHLORONAPHTHALENE	N.D.	2.5	N.D.	--
2-NITROANILINE	N.D.	0.50	N.D.	--
DIMETHYL PHTHALATE	N.D.	2.5	N.D.	--
ACENAPHTHYLENE	N.D.	0.50	N.D.	--
3-NITROANILINE	N.D.	2.5	N.D.	--
ACENAPHTHENE	N.D.	0.50	N.D.	81
2,4-DINITROPHENOL	N.D.	2.5	N.D.	--
4-NITROPHENOL	N.D.	2.5	N.D.	--
DIBENZOFURAN	N.D.	0.50	N.D.	--
2,4-DINITROTOLUENE	N.D.	0.50	N.D.	--
2,6-DINITROTOLUENE	N.D.	1.0	N.D.	--
DIETHYL PHTHALATE	N.D.	2.5	N.D.	--
4-CHLOROPHENYL PHENYL ETHER	N.D.	0.50	N.D.	--
FLUORENE	N.D.	0.50	N.D.	--
4-NITROANILINE	N.D.	2.5	N.D.	--
4,6-DINITRO-2-METHYLPHENOL	N.D.	2.5	N.D.	--

CHROMALAB, INC.

Environmental Services (SDB)

February 26, 1996

Submission #: 9602133
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MCCAMPBELL ANALYTICAL, INC.

Atten: Ed Hamilton

Project: K/5840 *Project#:* 10-3002-84/002
Received: February 16, 1996

re: One sample for Semivolatile Organics (BNAs) analysis, continued.
Method: EPA 3550/8270

SampleID: **K-4-1.5**
Sample #: 118401 *Matrix:* SOIL *Extracted:* February 20, 1996
Sampled: February 15, 1996 *Run:* 10479-A *Analyzed:* February 23, 1996

Analyte	RESULT (mg/Kg)	REPORTING LIMIT (mg/Kg)	BLANK RESULT (mg/Kg)	BLANK SPIKE RESULT (%)
N-NITROSO-DI-N-PHENYLAMINE	N.D.	0.50	N.D.	--
4-BROMOPHENYL PHENYL ETHER	N.D.	0.50	N.D.	--
HEXACHLOROBENZENE	N.D.	0.50	N.D.	--
PENTACHLOROPHENOL	N.D.	2.5	N.D.	43
PHENATHRENE	N.D.	0.50	N.D.	--
ANTHRACENE	N.D.	0.50	N.D.	--
DI-N-BUTYL PHTHALATE	N.D.	2.5	N.D.	--
FLUORANTHENE	N.D.	0.50	N.D.	--
PYRENE	N.D.	0.50	N.D.	57
BUTYL BENZYL PHTHALATE	N.D.	2.5	N.D.	--
3,3'-DICHLOROBENZIDINE	N.D.	1.0	N.D.	--
BENZO(A)ANTHRACENE	N.D.	0.50	N.D.	--
BIS(2-ETHYLHEXYL)PHTHALATE	N.D.	2.5	N.D.	--
CHRYSENE	N.D.	0.50	N.D.	--
DI-N-OCTYL PHTHALATE	N.D.	2.5	N.D.	--
BENZO(B)FLUORANTHENE	N.D.	0.50	N.D.	--
BENZO(K)FLUORANTHENE	N.D.	1.0	N.D.	--
BENZO(A)PYRENE	N.D.	0.25	N.D.	--
INDENO(1,2,3 C,D)PYRENE	N.D.	1.0	N.D.	--
DIBENZ(A,H)ANTHRACENE	N.D.	1.0	N.D.	--
BENZ(G,H,I)PERYLENE	N.D.	1.0	N.D.	--

For above analyte: *REPORTING LIMITS RAISED DUE TO MATRIX INTERFERENCE*

Alex Tam
Chemist

Chip Poalinelli
Operations Manager

CHROMALAB, INC.

Environmental Services (SDB)

February 26, 1996 *Submission #:* 9602133

MCCAMPBELL ANALYTICAL, INC.

Atten: Ed Hamilton

Project: K/5840 *Project#:* 10-3002-84/002
Received: February 16, 1996

re: One sample for Semivolatile Organics (BNAs) analysis.
Method: EPA 3550/8270

SampleID: K-2-1
Sample #: 118402 *Matrix:* SOIL *Extracted:* February 20, 1996
Sampled: February 15, 1996 *Run:* 10479-A *Analyzed:* February 23, 1996

Analyte	RESULT (mg/Kg)	REPORTING LIMIT (mg/Kg)	BLANK RESULT (mg/Kg)	BLANK SPIKE RESULT (%)
PHENOL	N.D.	0.50	N.D.	--
BIS(2-CHLOROETHYL)ETHER	N.D.	0.50	N.D.	--
2-CHLOROPHENOL	N.D.	0.50	N.D.	81
1,3-DICHLOROBENZENE	N.D.	0.50	N.D.	--
1,4-DICHLOROBENZENE	N.D.	0.50	N.D.	--
BENZYL ALCOHOL	N.D.	1.0	N.D.	--
1,2-DICHLOROBENZENE	N.D.	0.50	N.D.	--
o-METHYLPHENOL	N.D.	0.50	N.D.	--
BIS(2-CHLOROISOPROPYL)ETHER	N.D.	0.50	N.D.	--
m+p-METHYLPHENOL	N.D.	1.0	N.D.	--
N-NITROSO-DI-N-PROPYLAMINE	N.D.	0.50	N.D.	73
HEXACHLOROETHANE	N.D.	0.50	N.D.	--
NITROBENZENE	N.D.	0.50	N.D.	--
ISOPHORONE	N.D.	0.50	N.D.	--
2-NITROPHENOL	N.D.	0.50	N.D.	--
2,4-DIMETHYLPHENOL	N.D.	0.50	N.D.	--
BIS(2-CHLOROETHOXY)METHANE	N.D.	0.50	N.D.	--
2,4-DICHLOROPHENOL	N.D.	0.50	N.D.	--
1,2,4-TRICHLOROBENZENE	N.D.	0.50	N.D.	69
NAPHTHALENE	N.D.	0.50	N.D.	--
4-CHLOROANILINE	N.D.	1.0	N.D.	--
HEXACHLOROBUTADIENE	N.D.	0.50	N.D.	--
4-CHLORO-3-METHYLPHENOL	N.D.	1.0	N.D.	91
2-METHYLNAPHTHALENE	N.D.	0.50	N.D.	--
HEXACHLOROCYCLOPENTADIENE	N.D.	0.50	N.D.	--
2,4,6-TRICHLOROPHENOL	N.D.	0.50	N.D.	--
2,4,5-TRICHLOROPHENOL	N.D.	0.50	N.D.	--
2-CHLORONAPHTHALENE	N.D.	2.5	N.D.	--
2-NITROANILINE	N.D.	0.50	N.D.	--
DIMETHYL PHTHALATE	N.D.	2.5	N.D.	--
ACENAPHTHYLENE	N.D.	0.50	N.D.	--
3-NITROANILINE	N.D.	2.5	N.D.	--
ACENAPHTHENE	N.D.	0.50	N.D.	81
2,4-DINITROPHENOL	N.D.	2.5	N.D.	--
4-NITROPHENOL	N.D.	2.5	N.D.	--
DIBENZOFURAN	N.D.	0.50	N.D.	--
2,4-DINITROTOLUENE	N.D.	0.50	N.D.	--
2,6-DINITROTOLUENE	N.D.	1.0	N.D.	--
DIETHYL PHTHALATE	N.D.	2.5	N.D.	--
4-CHLOROPHENYL PHENYL ETHER	N.D.	0.50	N.D.	--
FLUORENE	N.D.	0.50	N.D.	--
4-NITROANILINE	N.D.	2.5	N.D.	--
4,6-DINITRO-2-METHYLPHENOL	N.D.	2.5	N.D.	--

CHROMALAB, INC.

Environmental Services (SDB)

February 26, 1996

Submission #: 9602133
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MCCAMPBELL ANALYTICAL, INC.

Atten: Ed Hamilton

Project: K/5840 *Project#:* 10-3002-84/002
Received: February 16, 1996

re: One sample for Semivolatile Organics (BNAs) analysis, continued.
Method: EPA 3550/8270

SampleID: **K-2-1**
Sample #: 118402 *Matrix:* SOIL *Extracted:* February 20, 1996
Sampled: February 15, 1996 *Run:* 10479-A *Analyzed:* February 23, 1996

Analyte	RESULT (mg/Kg)	REPORTING LIMIT (mg/Kg)	BLANK RESULT (mg/Kg)	BLANK SPIKE RESULT (%)
N-NITROSO-DI-N-PHENYLAMINE	N.D.	0.50	N.D.	--
4-BROMOPHENYL PHENYL ETHER	N.D.	0.50	N.D.	--
HEXACHLOROBENZENE	N.D.	0.50	N.D.	--
PENTACHLOROPHENOL	N.D.	2.5	N.D.	43
PHENATHRENE	N.D.	0.50	N.D.	--
ANTHRACENE	N.D.	0.50	N.D.	--
DI-N-BUTYL PHTHALATE	N.D.	2.5	N.D.	--
FLUORANTHENE	N.D.	0.50	N.D.	--
PYRENE	N.D.	0.50	N.D.	57
BUTYL BENZYL PHTHALATE	N.D.	2.5	N.D.	--
3,3'-DICHLOROBENZIDINE	N.D.	1.0	N.D.	--
BENZO(A)ANTHRACENE	N.D.	0.50	N.D.	--
BIS(2-ETHYLHEXYL)PHTHALATE	N.D.	2.5	N.D.	--
CHRYSENE	N.D.	0.50	N.D.	--
DI-N-OCTYL PHTHALATE	N.D.	2.5	N.D.	--
BENZO(B)FLUORANTHENE	N.D.	0.50	N.D.	--
BENZO(K)FLUORANTHENE	N.D.	1.0	N.D.	--
BENZO(A)PYRENE	N.D.	0.25	N.D.	--
INDENO(1,2,3 C,D)PYRENE	N.D.	1.0	N.D.	--
DIBENZ(A,H)ANTHRACENE	N.D.	1.0	N.D.	--
BENZ(G,H,I)PERYLENE	N.D.	1.0	N.D.	--

For above analyte: *REPORTING LIMITS RAISED DUE TO MATRIX INTERFERENCE*

Alex Tam
Chemist

Chip Poalinelli
Operations Manager

CHROMALAB, INC.

Environmental Services (SDB)

February 26, 1996 *Submission #:* 9602133

MCCAMPBELL ANALYTICAL, INC.

Atten: Ed Hamilton

Project: K/5840 *Project#:* 10-3002-84/002
Received: February 16, 1996

re: One sample for Semivolatile Organics (BNAs) analysis.
Method: EPA 3550/8270

SampleID: CB-1
Sample #: 118403 *Matrix:* SOIL *Extracted:* February 20, 1996
Sampled: February 15, 1996 *Run:* 10479-A *Analyzed:* February 23, 1996

Analyte	RESULT (mg/Kg)	REPORTING LIMIT (mg/Kg)	BLANK RESULT (mg/Kg)	BLANK SPIKE RESULT (%)
PHENOL	N.D.	10	N.D.	--
BIS(2-CHLOROETHYL)ETHER	N.D.	10	N.D.	--
2-CHLOROPHENOL	N.D.	10	N.D.	81
1,3-DICHLOROBENZENE	N.D.	10	N.D.	--
1,4-DICHLOROBENZENE	N.D.	10	N.D.	--
BENZYL ALCOHOL	N.D.	20	N.D.	--
1,2-DICHLOROBENZENE	N.D.	10	N.D.	--
o-METHYLPHENOL	N.D.	10	N.D.	--
BIS(2-CHLOROISOPROPYL)ETHER	N.D.	10	N.D.	--
m+p-METHYLPHENOL	N.D.	20	N.D.	--
N-NITROSO-DI-N-PROPYLAMINE	N.D.	10	N.D.	73
HEXACHLOROETHANE	N.D.	10	N.D.	--
NITROBENZENE	N.D.	10	N.D.	--
ISOPHORONE	N.D.	10	N.D.	--
2-NITROPHENOL	N.D.	10	N.D.	--
2,4-DIMETHYLPHENOL	N.D.	10	N.D.	--
BIS(2-CHLOROETHOXY)METHANE	N.D.	10	N.D.	--
2,4-DICHLOROPHENOL	N.D.	10	N.D.	--
1,2,4-TRICHLOROBENZENE	N.D.	10	N.D.	69
NAPHTHALENE	N.D.	10	N.D.	--
4-CHLOROANILINE	N.D.	20	N.D.	--
HEXACHLOROBUTADIENE	N.D.	10	N.D.	--
4-CHLORO-3-METHYLPHENOL	N.D.	20	N.D.	91
2-METHYLNAPHTHALENE	N.D.	10	N.D.	--
HEXACHLOROCYCLOPENTADIENE	N.D.	10	N.D.	--
2,4,6-TRICHLOROPHENOL	N.D.	10	N.D.	--
2,4,5-TRICHLOROPHENOL	N.D.	10	N.D.	--
2-CHLORONAPHTHALENE	N.D.	50	N.D.	--
2-NITROANILINE	N.D.	10	N.D.	--
DIMETHYL PHTHALATE	N.D.	50	N.D.	--
ACENAPHTHYLENE	N.D.	10	N.D.	--
3-NITROANILINE	N.D.	50	N.D.	--
ACENAPHTHENE	N.D.	10	N.D.	81
2,4-DINITROPHENOL	N.D.	50	N.D.	--
4-NITROPHENOL	N.D.	50	N.D.	--
DIBENZOFURAN	N.D.	10	N.D.	--
2,4-DINITROTOLUENE	N.D.	10	N.D.	--
2,6-DINITROTOLUENE	N.D.	20	N.D.	--
DIETHYL PHTHALATE	N.D.	50	N.D.	--
4-CHLOROPHENYL PHENYL ETHER	N.D.	10	N.D.	--
FLUORENE	N.D.	10	N.D.	--
4-NITROANILINE	N.D.	50	N.D.	--
4,6-DINITRO-2-METHYLPHENOL	N.D.	50	N.D.	--

CHROMALAB, INC.

Environmental Services (SDB)

February 26, 1996

Submission #: 9602133
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MCCAMPBELL ANALYTICAL, INC.

Atten: Ed Hamilton

Project: K/5840 *Project#:* 10-3002-84/002
Received: February 16, 1996

re: One sample for Semivolatile Organics (BNAs) analysis, continued.
Method: EPA 3550/8270

SampleID: **CB-1**
Sample #: 118403 *Matrix:* SOIL *Extracted:* February 20, 1996
Sampled: February 15, 1996 *Run:* 10479-A *Analyzed:* February 23, 1996

Analyte	RESULT (mg/Kg)	REPORTING LIMIT (mg/Kg)	BLANK RESULT (mg/Kg)	BLANK SPIKE RESULT (%)
N-NITROSO-DI-N-PHENYLAMINE	N.D.	10	N.D.	--
4-BROMOPHENYL PHENYL ETHER	N.D.	10	N.D.	--
HEXACHLOROBENZENE	N.D.	10	N.D.	--
PENTACHLOROPHENOL	N.D.	50	N.D.	43
PHENATHRENE	N.D.	10	N.D.	--
ANTHRACENE	N.D.	10	N.D.	--
DI-N-BUTYL PHTHALATE	N.D.	50	N.D.	--
FLUORANTHENE	N.D.	10	N.D.	--
PYRENE	N.D.	10	N.D.	57
BUTYL BENZYL PHTHALATE	N.D.	50	N.D.	--
3,3'-DICHLOROBENZIDINE	N.D.	20	N.D.	--
BENZO(A)ANTHRACENE	N.D.	10	N.D.	--
BIS(2-ETHYLHEXYL)PHTHALATE	N.D.	50	N.D.	--
CHRYSENE	N.D.	10	N.D.	--
DI-N-OCTYL PHTHALATE	N.D.	50	N.D.	--
BENZO(B)FLUORANTHENE	N.D.	10	N.D.	--
BENZO(K)FLUORANTHENE	N.D.	20	N.D.	--
BENZO(A)PYRENE	N.D.	5	N.D.	--
INDENO(1,2,3 C,D)PYRENE	N.D.	20	N.D.	--
DIBENZ(A,H)ANTHRACENE	N.D.	20	N.D.	--
BENZ(G,H,I)PERYLENE	N.D.	20	N.D.	--

For above analyte: *REPORTING LIMITS RAISED DUE TO MATRIX INTERFERENCE*

Alex Tam
Chemist

Chip Poalinelli
Operations Manager

CHROMALAB, INC.

Environmental Services (SDB)

February 26, 1996 *Submission #:* 9602133

MCCAMPBELL ANALYTICAL, INC.

Atten: Ed Hamilton

Project: K/5840 *Project#:* 10-3002-84/002
Received: February 16, 1996

re: One sample for Semivolatile Organics (BNAs) analysis.
Method: EPA 3550/8270

SampleID: **CB-2**
Sample #: 118404 *Matrix:* SOIL *Extracted:* February 20, 1996
Sampled: February 15, 1996 *Run:* 10479-A *Analyzed:* February 23, 1996

Analyte	RESULT (mg/Kg)	REPORTING LIMIT (mg/Kg)	BLANK RESULT (mg/Kg)	BLANK SPIKE RESULT (%)
PHENOL	N.D.	0.50	N.D.	--
BIS(2-CHLOROETHYL)ETHER	N.D.	0.50	N.D.	--
2-CHLOROPHENOL	N.D.	0.50	N.D.	81
1,3-DICHLOROBENZENE	N.D.	0.50	N.D.	--
1,4-DICHLOROBENZENE	N.D.	0.50	N.D.	--
BENZYL ALCOHOL	N.D.	1.0	N.D.	--
1,2-DICHLOROBENZENE	N.D.	0.50	N.D.	--
o-METHYLPHENOL	N.D.	0.50	N.D.	--
BIS(2-CHLOROISOPROPYL)ETHER	N.D.	0.50	N.D.	--
m+p-METHYLPHENOL	N.D.	1.0	N.D.	--
N-NITROSO-DI-N-PROPYLAMINE	N.D.	0.50	N.D.	73
HEXACHLOROETHANE	N.D.	0.50	N.D.	--
NITROBENZENE	N.D.	0.50	N.D.	--
ISOPHORONE	N.D.	0.50	N.D.	--
2-NITROPHENOL	N.D.	0.50	N.D.	--
2,4-DIMETHYLPHENOL	N.D.	0.50	N.D.	--
BIS(2-CHLOROETHOXY)METHANE	N.D.	0.50	N.D.	--
2,4-DICHLOROPHENOL	N.D.	0.50	N.D.	--
1,2,4-TRICHLOROBENZENE	N.D.	0.50	N.D.	69
NAPHTHALENE	N.D.	0.50	N.D.	--
4-CHLOROANILINE	N.D.	1.0	N.D.	--
HEXACHLOROBUTADIENE	N.D.	0.50	N.D.	--
4-CHLORO-3-METHYLPHENOL	N.D.	1.0	N.D.	91
2-METHYLNAPHTHALENE	N.D.	0.50	N.D.	--
HEXACHLOROCYCLOPENTADIENE	N.D.	0.50	N.D.	--
2,4,6-TRICHLOROPHENOL	N.D.	0.50	N.D.	--
2,4,5-TRICHLOROPHENOL	N.D.	0.50	N.D.	--
2-CHLORONAPHTHALENE	N.D.	2.5	N.D.	--
2-NITROANILINE	N.D.	0.50	N.D.	--
DIMETHYL PHTHALATE	N.D.	2.5	N.D.	--
ACENAPHTHYLENE	N.D.	0.50	N.D.	--
3-NITROANILINE	N.D.	2.5	N.D.	--
ACENAPHTHENE	N.D.	0.50	N.D.	81
2,4-DINITROPHENOL	N.D.	2.5	N.D.	--
4-NITROPHENOL	N.D.	2.5	N.D.	--
DIBENZOFURAN	N.D.	0.50	N.D.	--
2,4-DINITROTOLUENE	N.D.	0.50	N.D.	--
2,6-DINITROTOLUENE	N.D.	1.0	N.D.	--
DIETHYL PHTHALATE	N.D.	2.5	N.D.	--
4-CHLOROPHENYL PHENYL ETHER	N.D.	0.50	N.D.	--
FLUORENE	N.D.	0.50	N.D.	--
4-NITROANILINE	N.D.	2.5	N.D.	--
4,6-DINITRO-2-METHYLPHENOL	N.D.	2.5	N.D.	--

CHROMALAB, INC.

Environmental Services (SDB)

February 26, 1996

Submission #: 9602133
page 2

MCCAMPBELL ANALYTICAL, INC.

Atten: Ed Hamilton

Project: K/5840
Project#: 10-3002-84/002
Received: February 16, 1996

re: One sample for Semivolatile Organics (BNAs) analysis, continued.
Method: EPA 3550/8270

SampleID: **CB-2**
Sample #: 118404 *Matrix:* SOIL *Extracted:* February 20, 1996
Sampled: February 15, 1996 *Run:* 10479-A *Analyzed:* February 23, 1996

Analyte	RESULT (mg/Kg)	REPORTING LIMIT (mg/Kg)	BLANK RESULT (mg/Kg)	BLANK SPIKE RESULT (%)
N-NITROSO-DI-N-PHENYLAMINE	N.D.	0.50	N.D.	--
4-BROMOPHENYL PHENYL ETHER	N.D.	0.50	N.D.	--
HEXACHLOROBENZENE	N.D.	0.50	N.D.	--
PENTACHLOROPHENOL	N.D.	2.5	N.D.	43
PHENATHRENE	N.D.	0.50	N.D.	--
ANTHRACENE	N.D.	0.50	N.D.	--
DI-N-BUTYL PHTHALATE	N.D.	2.5	N.D.	--
FLUORANTHENE	N.D.	0.50	N.D.	--
PYRENE	N.D.	0.50	N.D.	57
BUTYL BENZYL PHTHALATE	12	2.5	N.D.	--
3,3'-DICHLOROBENZIDINE	N.D.	1.0	N.D.	--
BENZO(A)ANTHRACENE	N.D.	0.50	N.D.	--
BIS(2-ETHYLHEXYL)PHTHALATE	16	2.5	N.D.	--
CHRYSENE	N.D.	0.50	N.D.	--
DI-N-OCTYL PHTHALATE	N.D.	2.5	N.D.	--
BENZO(B)FLUORANTHENE	N.D.	0.50	N.D.	--
BENZO(K)FLUORANTHENE	N.D.	1.0	N.D.	--
BENZO(A)PYRENE	N.D.	0.25	N.D.	--
INDENO(1,2,3 C,D)PYRENE	N.D.	1.0	N.D.	--
DIBENZ(A,H)ANTHRACENE	N.D.	1.0	N.D.	--
BENZ(G,H,I)PERYLENE	N.D.	1.0	N.D.	--

For above analyte: *REPORTING LIMITS RAISED DUE TO MATRIX INTERFERENCE*

Alex Tam
Chemist

Chip Poalinelli
Operations Manager

CHROMALAB, INC.

Environmental Services (SDB)

February 26, 1996 *Submission #:* 9602133

MCCAMPBELL ANALYTICAL, INC.

Atten: Ed Hamilton

Project: K/5840 *Project#:* 10-3002-84/002
Received: February 16, 1996

re: One sample for Semivolatile Organics (BNAs) analysis.
Method: EPA 3550/8270

SampleID: CB-3
Sample #: 118405 *Matrix:* SOIL *Extracted:* February 20, 1996
Sampled: February 15, 1996 *Run:* 10479-A *Analyzed:* February 23, 1996

Analyte	RESULT (mg/Kg)	REPORTING LIMIT (mg/Kg)	BLANK RESULT (mg/Kg)	BLANK SPIKE RESULT (%)
PHENOL	N.D.	50	N.D.	--
BIS(2-CHLOROETHYL)ETHER	N.D.	50	N.D.	--
2-CHLOROPHENOL	N.D.	50	N.D.	81
1,3-DICHLOROBENZENE	N.D.	50	N.D.	--
1,4-DICHLOROBENZENE	N.D.	50	N.D.	--
BENZYL ALCOHOL	N.D.	100	N.D.	--
1,2-DICHLOROBENZENE	N.D.	50	N.D.	--
o-METHYLPHENOL	N.D.	50	N.D.	--
BIS(2-CHLOROISOPROPYL)ETHER	N.D.	50	N.D.	--
m+p-METHYLPHENOL	N.D.	100	N.D.	--
N-NITROSO-DI-N-PROPYLAMINE	N.D.	50	N.D.	73
HEXACHLOROETHANE	N.D.	50	N.D.	--
NITROBENZENE	N.D.	50	N.D.	--
ISOPHORONE	N.D.	50	N.D.	--
2-NITROPHENOL	N.D.	50	N.D.	--
2,4-DIMETHYLPHENOL	N.D.	50	N.D.	--
BIS(2-CHLOROETHOXY)METHANE	N.D.	50	N.D.	--
2,4-DICHLOROPHENOL	N.D.	50	N.D.	--
1,2,4-TRICHLOROBENZENE	N.D.	50	N.D.	69
NAPHTHALENE	N.D.	50	N.D.	--
4-CHLOROANILINE	N.D.	100	N.D.	--
HEXACHLOROBUTADIENE	N.D.	50	N.D.	--
4-CHLORO-3-METHYLPHENOL	N.D.	100	N.D.	91
2-METHYLNAPHTHALENE	N.D.	50	N.D.	--
HEXACHLOROCYCLOPENTADIENE	N.D.	50	N.D.	--
2,4,6-TRICHLOROPHENOL	N.D.	50	N.D.	--
2,4,5-TRICHLOROPHENOL	N.D.	50	N.D.	--
2-CHLORONAPHTHALENE	N.D.	250	N.D.	--
2-NITROANILINE	N.D.	50	N.D.	--
DIMETHYL PHTHALATE	N.D.	250	N.D.	--
ACENAPHTHYLENE	N.D.	50	N.D.	--
3-NITROANILINE	N.D.	250	N.D.	--
ACENAPHTHENE	N.D.	50	N.D.	81
2,4-DINITROPHENOL	N.D.	250	N.D.	--
4-NITROPHENOL	N.D.	250	N.D.	--
DIBENZOFURAN	N.D.	50	N.D.	--
2,4-DINITROTOLUENE	N.D.	50	N.D.	--
2,6-DINITROTOLUENE	N.D.	100	N.D.	--
DIETHYL PHTHALATE	N.D.	250	N.D.	--
4-CHLOROPHENYL PHENYL ETHER	N.D.	50	N.D.	--
FLUORENE	N.D.	50	N.D.	--
4-NITROANILINE	N.D.	250	N.D.	--
4,6-DINITRO-2-METHYLPHENOL	N.D.	250	N.D.	--

CHROMALAB, INC.

Environmental Services (SDB)

February 26, 1996

Submission #: 9602133
page 2

MCCAMPBELL ANALYTICAL, INC.

Atten: Ed Hamilton

Project: K/5840 *Project#:* 10-3002-84/002
Received: February 16, 1996

re: One sample for Semivolatile Organics (BNAs) analysis, continued.
Method: EPA 3550/8270

SampleID: **CB-3**
Sample #: 118405 *Matrix:* SOIL *Extracted:* February 20, 1996
Sampled: February 15, 1996 *Run:* 10479-A *Analyzed:* February 23, 1996

Analyte	RESULT (mg/Kg)	REPORTING LIMIT (mg/Kg)	BLANK RESULT (mg/Kg)	BLANK SPIKE RESULT (%)
N-NITROSO-DI-N-PHENYLAMINE	N.D.	50	N.D.	--
4-BROMOPHENYL PHENYL ETHER	N.D.	50	N.D.	--
HEXACHLOROBENZENE	N.D.	50	N.D.	--
PENTACHLOROPHENOL	N.D.	250	N.D.	43
PHENATHRENE	N.D.	50	N.D.	--
ANTHRACENE	N.D.	50	N.D.	--
DI-N-BUTYL PHTHALATE	N.D.	250	N.D.	--
FLUORANTHENE	N.D.	50	N.D.	--
PYRENE	N.D.	50	N.D.	57
BUTYL BENZYL PHTHALATE	N.D.	250	N.D.	--
3,3'-DICHLOROBENZIDINE	N.D.	100	N.D.	--
BENZO(A)ANTHRACENE	N.D.	50	N.D.	--
BIS(2-ETHYLHEXYL)PHTHALATE	N.D.	250	N.D.	--
CHRYSENE	N.D.	50	N.D.	--
DI-N-OCTYL PHTHALATE	N.D.	250	N.D.	--
BENZO(B)FLUORANTHENE	N.D.	50	N.D.	--
BENZO(K)FLUORANTHENE	N.D.	100	N.D.	--
BENZO(A)PYRENE	N.D.	25	N.D.	--
INDENO(1,2,3 C,D)PYRENE	N.D.	100	N.D.	--
DIBENZ(A,H)ANTHRACENE	N.D.	100	N.D.	--
BENZ(G,H,I)PERYLENE	N.D.	100	N.D.	--

For above analyte: *REPORTING LIMITS RAISED DUE TO MATRIX INTERFERENCE*

Alex Tam
Chemist

Chip Poalinelli
Operations Manager

McCAMPBELL ANALYTICAL

110 2nd AVENUE, # D7
PACHECO, CA 94553
(510) 798-1620 FAX (510) 798-1622

CHAIN OF CUSTODY RECORD

TURN AROUND TIME: ☐ RUSH ☐ 24 HOUR ☐ 48 HOUR ☒ 5 DAY

REPORT TO: E. Hamilton BILL TO: MAZ

COMPANY: MAZ

TELE: FAX #:

PROJECT NUMBER: 10-3002-44/002 PROJECT NAME: K/S-840

PROJECT LOCATION: SAMPLER SIGNATURE:

ANALYSIS REQUEST | OTHER

SUBM #: 9602133 REF: GC
CLIENT: MCCAM
DUE: 02/26/96
REF #: 26484

SAMPLE ID	LOCATION	SAMPLING DATE	SAMPLING TIME	# CONTAINERS	TYPE CONTAINERS	MATRIX: WATER	SOIL	AIR	SLUDGE	OTHER	METHOD PRESERVED: HCL	HNO_3	OTHER	BTEX & TPH as Gasoline (602/8020 & 8015)	TPH as Diesel (8015)	Total Petroleum Oil & Grease (5520 E&F/5520 B&F)	Total Petroleum Hydrocarbons (418.1)	EPA 601/8010	EPA 602/8020	EPA 608/8080	EPA 608/8080 - PCBs Only	EPA 624/8240/8260	EPA 625/8270	CAM - 17 Metals	EPA - Priority Pollutant Metals	LEAD (7240/7421/239.2/6010)	ORGANIC LEAD	RCI	COMMENTS
K-4-1 96368	~~K-4-1 96368~~	2-15-96		1	GLASS		X						X										X						1507
K-7-1 96370				1	B		X																						1504
K-7-1 96372				1	B		X																						1512
CB-1 96376				1	G				X																				1513
K-6-1 96378				1	B		X																						1514
K-5-1 96380				1	B		X																						1176
CB-2 96382				1	G				X																				1176
K-3-1 96384				1	B		X																						1515
K-4-1.5 96386				1	B		X																						1521
K-2-1 96387				1	B		X																						1522
CB-3 96388				1	G				X																				1524
CB-4 96392				1	G				X																				1525
K-1 96396				2	G	X																							1526
K-10-1.1																													

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:
Linda Rocca	2/16/96	1513	
RELINQUISHED BY:	DATE	TIME	RECEIVED BY:
RELINQUISHED BY:	DATE	TIME	RECEIVED BY LABORATORY:
	2/16/96	1620	Chris Conley

REMARKS:

CHROMALAB, INC.

Environmental Services (SDB)

February 27, 1996 *Submission #:* 9602587

MCCAMPBELL ANALYTICAL, INC.

Atten: Ed Hamilton

Project: K/5840 *Project#:* 10-3002-84-002
Received: February 20, 1996

re: One sample for Semivolatile Organic Compounds (B/NAs) analysis.

Method: EPA 3550/8270

Client Sample ID: K-10
Spl#: 79674 *Matrix:* SOIL *Extracted:* February 22, 1996
Sampled: February 15, 1996 *Run#:* 715 *Analyzed:* February 24, 1996

ANALYTE	RESULT (mg/Kg)	REPORTING LIMIT (mg/Kg)	BLANK RESULT (mg/Kg)	BLANK SPIKE (%)	DILUTION FACTOR
PHENOL	N.D.	0.0971	N.D.	--	1
BIS(2-CHLOROETHYL)ETHER	N.D.	0.0971	N.D.	--	1
2-CHLOROPHENOL	N.D.	0.0971	N.D.	92.0	1
1,3-DICHLOROBENZENE	N.D.	0.0971	N.D.	--	1
1,4-DICHLOROBENZENE	N.D.	0.0971	N.D.	--	1
BENZYL ALCOHOL	N.D.	0.194	N.D.	--	1
1,2-DICHLOROBENZENE	N.D.	0.0971	N.D.	--	1
2-METHYLPHENOL	N.D.	0.0971	N.D.	--	1
BIS(2-CHLOROISOPROPYL)ETHER	N.D.	0.0971	N.D.	--	1
4-METHYLPHENOL	N.D.	0.194	N.D.	--	1
N-NITROSO-DI-N-PROPYLAMINE	N.D.	0.0971	N.D.	75.5	1
HEXACHLOROETHANE	N.D.	0.0971	N.D.	--	1
NITROBENZENE	N.D.	0.0971	N.D.	--	1
ISOPHORONE	N.D.	0.0971	N.D.	--	1
2-NITROPHENOL	N.D.	0.0971	N.D.	--	1
2,4-DIMETHYLPHENOL	N.D.	0.0971	N.D.	--	1
BIS(2-CHLOROETHOXY)METHANE	N.D.	0.0971	N.D.	--	1
2,4-DICHLOROPHENOL	N.D.	0.0971	N.D.	--	1
1,2,4-TRICHLOROBENZENE	N.D.	0.0971	N.D.	83.2	1
NAPHTHALENE	N.D.	0.0971	N.D.	--	1
4-CHLOROANILINE	N.D.	0.194	N.D.	--	1
HEXACHLOROBUTADIENE	N.D.	0.0971	N.D.	--	1
4-CHLORO-3-METHYLPHENOL	N.D.	0.194	N.D.	75.2	1
2-METHYLNAPHTHALENE	N.D.	0.0971	N.D.	--	1
HEXACHLOROCYCLOPENTADIENE	N.D.	0.0971	N.D.	--	1
2,4,6-TRICHLOROPHENOL	N.D.	0.0971	N.D.	--	1
2,4,5-TRICHLOROPHENOL	N.D.	0.0971	N.D.	--	1
2-CHLORONAPHTHALENE	N.D.	0.0971	N.D.	--	1
2-NITROANILINE	N.D.	0.486	N.D.	--	1
DIMETHYL PHTHALATE	N.D.	0.486	N.D.	--	1
ACENAPHTHYLENE	N.D.	0.0971	N.D.	--	1
3-NITROANILINE	N.D.	0.0971	N.D.	--	1
ACENAPHTHENE	N.D.	0.0971	N.D.	90.4	1
2,4-DINITROPHENOL	N.D.	0.486	N.D.	--	1
4-NITROPHENOL	N.D.	0.486	N.D.	--	1
DIBENZOFURAN	N.D.	0.0971	N.D.	--	1
2,4-DINITROTOLUENE	N.D.	0.0971	N.D.	--	1
2,6-DINITROTOLUENE	N.D.	0.194	N.D.	--	1
DIETHYL PHTHALATE	N.D.	0.486	N.D.	--	1

CHROMALAB, INC.

Environmental Services (SDB)

February 27, 1996

Submission #: 9602587
page 2

MCCAMPBELL ANALYTICAL, INC.

Atten: Ed Hamilton

Project: K/5840 *Project#:* 10-3002-84-002
Received: February 20, 1996

re: One sample for Semivolatile Organic Compounds (B/NAs) analysis, continued.
Method:
EPA 3550/8270

Client Sample ID: **K-10**
Spl#: 79674 *Matrix:* SOIL *Extracted:* February 22, 1996
Sampled: February 15, 1996 *Run#:* 715 *Analyzed:* February 24, 1996

ANALYTE	RESULT (mg/Kg)	REPORTING LIMIT (mg/Kg)	BLANK RESULT (mg/Kg)	BLANK SPIKE (%)	DILUTION FACTOR
4-CHLOROPHENYL PHENYL ETHER	N.D.	0.0971	N.D.	--	1
FLUORENE	N.D.	0.0971	N.D.	--	1
4-NITROANILINE	N.D.	0.486	N.D.	--	1
4,6-DINITRO-2-METHYLPHENOL	N.D.	0.486	N.D.	--	1
N-NITROSO-DI-N-PHENYLAMINE	N.D.	0.0971	N.D.	--	1
4-BROMOPHENYL PHENYL ETHER	N.D.	0.0971	N.D.	--	1
HEXACHLOROBENZENE	N.D.	0.0971	N.D.	--	1
PENTACHLOROPHENOL	N.D.	0.486	N.D.	32.8	1
PHENANTHRENE	N.D.	0.0971	N.D.	--	1
ANTHRACENE	N.D.	0.0971	N.D.	--	1
DI-N-BUTYL PHTHALATE	0.977	0.486	0.530	--	1
FLUORANTHENE	N.D.	0.0971	N.D.	--	1
PYRENE	N.D.	0.0971	N.D.	67.5	1
BUTYL BENZYL PHTHALATE	N.D.	0.486	N.D.	--	1
3,3'-DICHLOROBENZIDINE	N.D.	0.194	N.D.	--	1
BENZO(A)ANTHRACENE	N.D.	0.0971	N.D.	--	1
BIS(2-ETHYLHEXYL)PHTHALATE	N.D.	0.486	N.D.	--	1
CHRYSENE	N.D.	0.0971	N.D.	--	1
DI-N-OCTYL PHTHALATE	N.D.	0.486	N.D.	--	1
BENZO(B)FLUORANTHENE	N.D.	0.0971	N.D.	--	1
BENZO(K)FLUORANTHENE	N.D.	0.194	N.D.	--	1
BENZO(A)PYRENE	N.D.	0.0486	N.D.	--	1
INDENO(1,2,3 C,D)PYRENE	N.D.	0.194	N.D.	--	1
DIBENZO(A,H)ANTHRACENE	N.D.	0.194	N.D.	--	1
BENZO(G,H,I)PERYLENE	N.D.	0.194	N.D.	--	1
BENZOIC ACID	N.D.	0.486	N.D.	--	1

Alex Tam
Chemist

Chip Pöalinelli
Operations Manager

1220 Quarry Lane • Pleasanton, California 94566-4756
(510) 484-1919 • Facsimile (510) 484-1096
Federal ID #68-0140157

C.L. 587 / 19318 — 26498

McCAMPBELL ANALYTICAL

110 2nd AVENUE, # D7
PACHECO, CA 94553
(510) 798-1620 FAX (510) 798-1622

CHAIN OF CUSTODY RECORD

TURN AROUND TIME: ☐ RUSH ☐ 24 HOUR ☐ 48 HOUR ☒ 5 DAY

REPORT TO: Ed Hamilton BILL TO: MAI

COMPANY: McCampbell Analytical

TELE: Above FAX #:

PROJECT NUMBER: 10-3002-84/002 PROJECT NAME: K/5840

PROJECT LOCATION: / SAMPLER SIGNATURE:

SUBM #: 9602587 REP#:
CLIENT: MCCAM
DUE: 02/27/96
REF #: 26498

SAMPLE ID	LOCATION	SAMPLING DATE	SAMPLING TIME	# CONTAINERS	TYPE CONTAINERS	MATRIX: WATER	SOIL	AIR	SLUDGE	OTHER	METHOD PRESERVED: HCL	HNO_3	OTHER	ANALYSIS REQUEST: BTEX & TPH as Gasoline (602/8020 & 8015)	TPH as Diesel (8015)	Total Petroleum Oil & Grease (5520 E&F/5520 B&F)	Total Petroleum Hydrocarbons (418.1)	EPA 601/8010	EPA 602/8020	EPA 608/8080	EPA 608/8080 - PCBs Only	EPA 624/8240/8260	EPA 625/8270	CAM - 17 Metals	EPA - Priority Pollutant Metals	LEAD (7240/7421/239.2/6010)	ORGANIC LEAD	RCI	COMMENTS
K-10		2-15-96	1255	1	GLASS				X														X						61527

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:
Heidi Ricca	2/20/96		
RELINQUISHED BY:	DATE	TIME	RECEIVED BY:
RELINQUISHED BY:	DATE	TIME	RECEIVED BY LABORATORY:
	2-20-96	1615	Minnie Pate

REMARKS:

KLEINFELDER

5840 AKEX4

PROJ NO	PROJECT NAME
	10-3002-84/002
P.O. NO.: K3283	SAMPLERS: (Signature/Number) 1963

DATE MM DD YY	SAMPLE I.D. TIME HH MM SS	SAMPLE I.D.	NO OF CONTAINERS	ANALYSIS: lead, zinc, tin	8220	8015/8020	pH	8015M *	TPH-d, mo	hold STLC Zn 3-26-96 72 HR
21596	0950	K-9-1 96368	1	✓	✓	✓	✓	✓		
	0950	K-9-1.5' 96369	1						✓	
	1000	K-8-1 96370	1	✓	✓	✓	✓	✓		
	1000	K-8-1.5 96371	1						✓	
	1000	K-8-2 96375	1						✓	
	1005	K-7-1 96372	1	✓	✓	✓	✓	✓		
	1030	CB-2 1" 96376	2	✓	✓	✓	✓	✓		✓
	1040	K-6-1 96378	1	✓	✓	✓	✓	✓		
	1040	K-6-1.5 96379	1						✓	
	1055	K-5-1 96380	1	✓	✓	✓	✓	✓		
	1055	K-5-2.5' 96381	1						✓	
	1105	CB-2 96382	2	✓	✓	✓	✓	✓		
	1115	K-3-1 96384	1	✓	✓	✓	✓	✓		
	1115	K-3-1.5 96385	1						✓	
	1120	K-4-1.5 96386	1	✓	✓	✓	✓	✓		
	1130	K-2-1 96387	1	✓	✓	✓	✓	✓		
	1130	K-2-2.5 96390	1						✓	
		CB-3 96388	2	✓	✓	✓	✓	✓		✓
	1150	CB-4 96392	2	✓	✓	✓	✓	✓		
	1235	K-1 96396	8	✓	✓	✓	✓	✓		
	1255	K-10	1		X	X			X	

61507
hold 61508
61509
hold 61510

REMARKS

* ethylene glycol, ethanol, amine, diethylene glycol propanol

hold 61511
61512
61513
61514
hold 61515
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Relinquished by: (Signature)	Date/Time	Received by: (Signature)
	2-15-96 1910	
Relinquished by: (Signature)	Date/Time	Received by: (Signature)
		VOAS / O&G / METALS / OTHER
Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)

ICE/T ✓
GOOD CONDITION
HEAD SPACE ABSENT
PRESERVATIVE APPROPRIATE ✓
CONTAINERS ✓

Remarks
Standard TAT
*See list faxed for modified analyses

Send Results To
Kristen Scheller
KLEINFELDER
7133 KOLL CENTER PARKWAY
SUITE 100
PLEASANTON, CA 94566
(510) 484-1700
510 484-5838 FAX

White - Sampler | Canary - Return Copy To Shipper | Pink - Lab Copy

No 939

TASK 2
ANALYTICAL RESULTS
Sample Date: April 30, 1996

McCAMPBELL ANALYTICAL INC. | 110 2nd Avenue South, #D7, Pacheco, CA 94553
Tele: 510-798-1620 Fax: 510-798-1622

Kleinfelder 7133 Koll Center Parkway, # 100 Pleasanton, CA 94566	Client Project ID: # 10-3002-84/003; McGrath Rent Corp.	Date Sampled: 04/30/96
		Date Received: 04/30/96
	Client Contact: Dan Carroll	Date Extracted: 04/30/96
	Client P.O: # R3574	Date Analyzed: 04/30/96

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline*, with BTEX*

EPA methods 5030, modified 8015, and 8020 or 602; California RWQCB (SF Bay Region) method GCFID(5030)

Lab ID	Client ID	Matrix	TPH(g)+	Benzene	Toluene	Ethylben-zene	Xylenes	% Rec. Surrogate
64601-05	T1-T5	W	1300,a	26	98	45	300	99
Reporting Limit unless otherwise stated; ND means not detected above the reporting limit		W	50 ug/L	0.5	0.5	0.5	0.5	
		S	1.0 mg/kg	0.005	0.005	0.005	0.005	

* water and vapor samples are reported in ug/L, soil samples in mg/kg, and all TCLP extracts in mg/L

cluttered chromatogram; sample peak coelutes with surrogate peak

+ The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (?); f) one to a few isolated peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen is present; i) liquid sample that contains greater than ~ 5 vol. % sediment; j) no recognizable pattern.

DHS Certification No. 1644

Edward Hamilton, Lab Director

McCAMPBELL ANALYTICAL INC.
110 2nd Avenue South, #D7, Pacheco, CA 94553
Tele: 510-798-1620 Fax: 510-798-1622

Kleinfelder 7133 Koll Center Parkway, # 100 Pleasanton, CA 94566	Client Project ID: # 10-3002-84/003; McGrath Rent Corp.	Date Sampled: 04/30/96
		Date Received: 04/30/96
	Client Contact: Dan Carroll	Date Extracted: 04/30/96
	Client P.O: # R3574	Date Analyzed: 05/01/96

Metals by ICP*

EPA analytical methods 6010, 200.7

Lab ID	Client ID	Matrix	Extraction°	Zinc*
64601	T1	W	TTLC	31,i
64602	T2	W	TTLC	11,i
64603	T3	W	TTLC	9.2,i
64604	T4	W	TTLC	28
64605	T5	W	TTLC	9.9
64606	T6A-T6B	Sludge	TTLC	3800
64607	T7A-T7B	Sludge	TTLC	4500
Reporting Limit unless otherwise stated; ND means not detected above the reporting limit		W	TTLC	0.05
		S	TTLC	1.0
		—	STLC,TCLP	0.05

* soil samples are reported in mg/kg, and water samples and all STLC & TCLP extracts in mg/L

o EPA extraction methods 1311(TCLP), 3010/3020(water,TTLC), 3040(organic matrices,TTLC), 3050(solids,TTLC); STLC from CA Title 22

i) liquid sample that contains greater than ~ 2 vol. % sediment; this sediment is extracted with the liquid, in accordance with EPA methodologies and can significantly effect reported metal concentrations.

DHS Certification No. 1644

Edward Hamilton, Lab Director

McCAMPBELL ANALYTICAL INC.
110 2nd Avenue South, #D7, Pacheco, CA 94553
Tele: 510-798-1620 Fax: 510-798-1622

Kleinfelder 7133 Koll Center Parkway, # 100 Pleasanton, CA 94566	Client Project ID: # 10-3002-84/003; McGrath Rent Corp.	Date Sampled: 04/30/96
		Date Received: 04/30/96
	Client Contact: Dan Carroll	Date Extracted: 04/30/96
	Client P.O: # R3574	Date Analyzed: 05/01-05/04/96

Metals*

EPA methods 6010/200.7; 7060/206.2 (As); 7740/270.2 (Se); 239.2 (Pb, water matrix)

Lab ID	64601-05				Reporting Limit		
Client ID	T1-T5						
Matrix	W				S	W	STLC / TCLP
Extraction°	TTLC				TTLC	TTLC	
Compound	Concentration*				mg/kg	mg/L	mg/L
Arsenic (As)	ND				2.5	0.005	0.25
Cadmium (Cd)	ND				0.5	0.01	0.01
Chromium (Cr)	0.025				0.5	0.005	0.05
Copper (Cu)	0.045				2.0	0.02	0.05
Lead (Pb)	ND				3.0	0.005	0.2
Nickel (Ni)	0.033				2.0	0.02	0.05
Selenium (Se)	ND				2.5	0.005	0.25
Silver (Ag)	ND				1.0	0.01	0.05
Zinc (Zn)	14				1.0	0.05	0.05
% Recovery Surrogate	105						
Comments							

* water samples are reported in mg/L, soil samples in mg/kg and all TCLP & STLC extracts in mg/L

ND means not detected above the reporting limit

o EPA extraction methods 1311(TCLP), 3010/3020(water,TTLC), 3040(organic matrices,TTLC), 3050(solids,TTLC); STLC from CA Title 22

surrogate diluted out of range; N/A means surrogate not applicable to this analysis

i) liquid sample that contains greater than ~ 2 vol. % sediment; this sediment is extracted with the liquid, in accordance with EPA methodologies and can significantly effect reported metal concentrations.

DHS Certification No. 1644

Edward Hamilton, Lab Director

McCAMPBELL ANALYTICAL INC.
110 2nd Avenue South, #D7, Pacheco, CA 94553
Tele: 510-798-1620 Fax: 510-798-1622

Kleinfelder 7133 Koll Center Parkway, # 100 Pleasanton, CA 94566	Client Project ID: # 10-3002-84/003; McGrath Rent Corp.	Date Sampled: 04/30/96
		Date Received: 04/30/96
	Client Contact: Dan Carroll	Date Extracted: 05/02/96
	Client P.O: # R3574	Date Analyzed: 05/02/96

			Total Cyanide
Analytical methods			EPA 335.2, 9010, 9011
Lab ID	Client ID	Matrix	Cyanide*
64601-05	T1-T5	W	ND
Reporting Limit unless otherwise-tated; ND means not detected above the reporting limit		W	0.02 mg/L
		S	1.0 mg/kg

* water samples are reported in mg/L and soil samples in mg/kg

o solid samples are extracted in accordance with CA Title 22, Chapter 11, Appendix II

DHS Certification No. 1644

Edward Hamilton, Lab Director

McCAMPBELL ANALYTICAL INC.
110 2nd Avenue South, #D7, Pacheco, CA 94553
Tele: 510-798-1620 Fax: 510-798-1622

QC REPORT FOR HYDROCARBON ANALYSES

Date: 04/30/96 Matrix: Water

Analyte	Concentration (ug/L) Sample (#64533)	MS	MSD	Amount Spiked	% Recovery MS	MSD	RPD
TPH (gas)	0.0	103.0	104.6	100.0	103.0	104.6	1.5
Benzene	0.0	11.4	11.1	10.0	114.0	111.0	2.7
Toluene	0.0	11.6	11.1	10.0	116.0	111.0	4.4
Ethyl Benzene	0.0	11.6	11.2	10.0	116.0	112.0	3.5
Xylenes	0.0	34.8	33.8	30.0	116.0	112.7	2.9
TPH (diesel)	0	160	160	150	107	107	0.0
TRPH (oil & grease)	0	20600	21400	23700	87	90	3.8

% Rec. = (MS - Sample) / amount spiked x 100

RPD = (MS - MSD) / (MS + MSD) x 2 x 100

McCAMPBELL ANALYTICAL INC.
110 2nd Avenue South, #D7, Pacheco, CA 94553
Tele: 510-798-1620 Fax: 510-798-1622

QC REPORT FOR METALS

Date: 05/01/96 Matrix: Water

Extraction: TTLC

Analyte	Concentration (mg/L)			Amount Spiked	% Recovery		RPD
	Sample	MS	MSD		MS	MSD	
Arsenic	0.0	5.6	5.6	5.0	112	112	0.1
Selenium	0.0	5.2	5.3	5.0	104	105	0.7
Molybdenum	0.0	5.5	5.3	5.0	109	107	2.4
Silver	0.0	0.5	0.5	0.5	96	96	0.3
Thallium	0.0	4.9	4.9	5.0	99	98	0.7
Barium	0.0	5.0	5.0	5.0	101	100	0.3
Nickel	0.0	5.5	5.5	5.0	110	109	0.5
Chromium	0.0	5.6	5.4	5.0	111	108	2.5
Vanadium	0.0	5.4	5.5	5.0	109	110	0.6
Beryllium	0.0	5.6	5.6	5.0	113	113	0.1
Zinc	0.0	5.6	5.6	5.0	112	113	0.6
Copper	0.0	5.2	5.2	5.0	104	104	0.0
Antimony	0.0	5.4	5.2	5.0	107	104	3.0
Lead	0.0	5.4	5.4	5.0	108	108	0.8
Cadmium	0.0	6.0	5.9	5.0	120	119	0.7
Cobalt	0.0	5.5	5.4	5.0	111	108	2.3
Mercury	0.000	0.208	0.201	0.2	104	101	3.4

% Rec. = (MS - Sample) / amount spiked x 100

RPD = (MS - MSD) / (MS + MSD) x 2 x 100

McCAMPBELL ANALYTICAL INC.
110 2nd Avenue South, #D7, Pacheco, CA 94553
Tele: 510-798-1620 Fax: 510-798-1622

QC REPORT FOR AA METALS

Date: 05/04/96 Matrix: Water

Analyte	Concentration (mg/L)			Amount	% Recovery		RPD
	Sample	MS	MSD		MS	MSD	
Total Lead	0.00	4.63	4.54	5.00	93	91	2.0
Total Chromium	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total Cadmium	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total Nickel	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total Zinc	N/A	N/A	N/A	N/A	N/A	N/A	N/A
STLC Lead	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Organic Lead	N/A	N/A	N/A	N/A	N/A	N/A	N/A

% Rec. = (MS - Sample) / amount spiked x 100

RPD = (MS - MSD) / (MS + MSD) x 2 x 100

American Environmental Network

Certificate of Analysis

DOHS Certification: 1172

AIHA Accreditation: 11134

McCAMPBELL ANALYTICAL
110 2ND AVE. SOUTH, #D7
PACHECO, CA 94553

ATTN: EDWARD HAMILTON
CLIENT PROJ. ID: 6287
CLIENT PROJ. NAME: K-MRC

REPORT DATE: 05/03/96

DATE(S) SAMPLED: 04/30/96

DATE RECEIVED: 05/01/96

AEN WORK ORDER: 9605012

PROJECT SUMMARY:

On May 1, 1996, this laboratory received 1 water sample(s).

Client requested sample(s) be analyzed for chemical parameters. Results of analysis are summarized on the following page(s). Please see quality control report for a summary of QC data pertaining to this project.

Samples will be stored for 30 days after completion of analysis, then disposed of in accordance with State and Federal regulations. Samples may be archived by prior arrangement.

If you have any questions, please contact Client Services at (510) 930-9090.

Larry Klein
Laboratory Director

McCAMPBELL ANALYTICAL

SAMPLE ID: COMPOSITE 1 - WATER
AEN LAB NO: 9605012-01
AEN WORK ORDER: 9605012
CLIENT PROJ. ID: 6287

DATE SAMPLED: 04/30/96
DATE RECEIVED: 05/01/96
REPORT DATE: 05/03/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
Phenols	EPA 420.1	ND	0.05	mg/L	05/02/96

ND = Not detected at or above the reporting limit
* = Value at or above reporting limit

AEN (CALIFORNIA)
QUALITY CONTROL REPORT

AEN JOB NUMBER: 9605012
CLIENT PROJECT ID: 6287

Quality Control and Project Summary

All laboratory quality control parameters were found to be within established limits.

Definitions

Laboratory Control Sample (LCS)/Method Spikes(s): Control samples of known composition. LCS and Method Spike data are used to validate batch analytical results.

Matrix Spike(s): Aliquot of a sample (aqueous or solid) with added quantities of specific compounds and subjected to the entire analytical procedure. Matrix spike and matrix spike duplicate QC data are advisory.

Method Blank: An analytical control consisting of all reagents, internal standards, and surrogate standards carried through the entire analytical process. Used to monitor laboratory background and reagent contamination.

Not Detected (ND): Not detected at or above the reporting limit.

Relative Percent Difference (RPD): An indication of method precision based on duplicate analyses.

Reporting Limit (RL): The lowest concentration routinely determined during laboratory operations. The RL is generally 1 to 10 times the Method Detection Limit (MDL). Reporting limits are matrix, method, and analyte dependent and take into account any dilutions performed as part of the analysis.

Surrogates: Organic compounds which are similar to analytes of interest in chemical behaviour, but are not found in environmental samples. Surrogates are added to all blanks, calibration and check standards, samples, and spiked samples. Surrogate recovery is monitored as an indication of acceptable sample preparation and instrument performance.

D: Surrogates diluted out.

!: Indicates result outside of established laboratory QC limits.

ANALYSIS: Phenols

MATRIX: Water

METHOD BLANK SAMPLES

SAMPLE TYPE: Blank-Method/Media blank
INSTRUMENT: Novaspec uv/vis spect.
UNITS: mg/L
METHOD: EPA 420.1

LAB ID: PHNL_BLNK
PREPARED:
ANALYZED: 05/03/96

INSTR RUN: UV_VIS\960503160000/1/
BATCH ID: DISP050296
DILUTION: 1.000000

ANALYTE	RESULT	REF RESULT	REPORTING LIMIT	SPIKE VALUE	RECOVERY (%)	REC LIMITS (%) LOW	REC LIMITS (%) HIGH	RPD (%)	RPD LIMIT (%)
Total Phenols	ND		0.05						

METHOD SPIKE SAMPLES

SAMPLE TYPE: Spike-Method/Media blank
INSTRUMENT: Novaspec uv/vis spect.
UNITS: mg/L
METHOD: EPA 420.1

LAB ID: PHNL_MD
PREPARED:
ANALYZED: 05/03/96

INSTR RUN: UV_VIS\960503160000/3/1
BATCH ID: DISP050296
DILUTION: 1.000000

ANALYTE	RESULT	REF RESULT	REPORTING LIMIT	SPIKE VALUE	RECOVERY (%)	REC LIMITS (%) LOW	REC LIMITS (%) HIGH	RPD (%)	RPD LIMIT (%)
Total Phenols	0.486	ND	0.05	0.500	97.2	80	120		

SAMPLE TYPE: Spike-Method/Media blank
INSTRUMENT: Novaspec uv/vis spect.
UNITS: mg/L
METHOD: EPA 420.1

LAB ID: PHNL_MS
PREPARED:
ANALYZED: 05/03/96

INSTR RUN: UV_VIS\960503160000/2/1
BATCH ID: DISP050296
DILUTION: 1.000000

ANALYTE	RESULT	REF RESULT	REPORTING LIMIT	SPIKE VALUE	RECOVERY (%)	REC LIMITS (%) LOW	REC LIMITS (%) HIGH	RPD (%)	RPD LIMIT (%)
Total Phenols	0.499	ND	0.05	0.500	99.8	80	120		

METHOD SPIKE DUPLICATES

SAMPLE TYPE: Method Spike Sample Duplicate
INSTRUMENT: Novaspec uv/vis spect.
UNITS: mg/L
METHOD: EPA 420.1

LAB ID: PHNL_MR
PREPARED:
ANALYZED: 05/03/96

INSTR RUN: UV_VIS\960503160000/4/2
BATCH ID: DISP050296
DILUTION: 1.000000

ANALYTE	RESULT	REF RESULT	REPORTING LIMIT	SPIKE VALUE	RECOVERY (%)	REC LIMITS (%) LOW	REC LIMITS (%) HIGH	RPD (%)	RPD LIMIT (%)
Total Phenols	0.486	0.499	0.05					2.64	15

---------- End of Quality Control Report ----------

AE [redacted] 165012

McCAMPBELL ANALYTICAL

110 2nd AVENUE, # D7
(510) 798-1620 PACHECO, CA 94553 FAX (510) 798-1622

CHAIN OF CUSTODY RECORD

TURN AROUND TIME: ☐ RUSH ☐ 24 HOUR ☒ 48 HOUR ☐ 5 DAY

REPORT TO: Ed Hamilton BILL TO:

COMPANY: M'Campbell Analytical

TELE: (510) 798-1620 FAX #: (510) 798-1622

PROJECT NUMBER: 6287 PROJECT NAME: K-MRC

PROJECT LOCATION: SAMPLER SIGNATURE:

SAMPLE ID	LOCATION	SAMPLING DATE	SAMPLING TIME	# CONTAINERS	TYPE CONTAINERS	MATRIX: WATER	MATRIX: SOIL	MATRIX: AIR	MATRIX: SLUDGE	MATRIX: OTHER	METHOD PRESERVED: HCL	METHOD PRESERVED: HNO_3	METHOD PRESERVED: OTHER H_2SO_4	BTEX & TPH as Gasoline (602/8020 & 8015)	TPH as Diesel (8015)	Total Petroleum Oil & Grease (5520 E&F/5520 B&F)	Total Petroleum Hydrocarbons (418.1)	EPA 601/8010	EPA 602/8020	EPA 608/8080	EPA 608/8080 - PCBs Only	EPA 624/8240/8260	EPA 625/8270	CAM - 17 Metals	EPA - Priority Pollutant Metals	LEAD (7240/7421/239.2/6010)	ORGANIC LEAD	RCI	OTHER: phenolics			COMMENTS
Composite 1-water	01A	4/30/96	10:45-12:15	1	L	X							X																X				64601-64605

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:
Angela Rydelius	5/1/96	2:05 pm	
RELINQUISHED BY:	DATE	TIME	RECEIVED BY:
	5-1-96	14:20	
RELINQUISHED BY:	DATE	TIME	RECEIVED BY LABORATORY:
	5-1-96	1420	

REMARKS:

PROJ NO: 10-3052-84/w3 | PROJECT NAME: McGrath Rent Corp.

LP NO / P.O. NO.: R3574 | SAMPLERS: (Signature/Number): Todd Davis

DATE MM DD YY	SAMPLE I.D. TIME HH MM SS	SAMPLE I.D	NO OF CONTAINERS	ANALYSIS						REMARKS
				Metals (As, Cd, Cu, Pb, Se, Ag, Cr, Zn)	TPH-g / BTEX	Cyanide	Phenolics	Tbac		Lab:
4/30/96	10:45	T1	6						64601	H2O — Make 5 point Composite Sample From T1, T2, T3, T4, & T5. Name Composite 1
	11:15	T2	6						64602	
	11:35	T3	6						64603	
	11:55	T4	6							
	12:15	T5	6							
	13:10	T6A	1						64604	Sludge — Lab: Make 2 point Composite Sample from T6A & T6B; Name Composite 2
	13:15	T6B	1						64605	
	13:35	T7A	1							Make 2 point Composite Sample from T7A & T7B; Name Composite 3
↓	13:40	T7B	1							
		BTEX								Summary:
Lab to Make (see Notes) →		Composite 1 - Water								Water composite: T1 - T5
		Composite 2 - Sludge							64606	Sludge Composite: T6A - T6B
		Composite 3 - Sludge							64607	Sludge composite: T7A - T7B

HEAD SPACE ABSENT ✓ CONTAINERS ✓

Relinquished by: (Signature)	Date/Time	Received by: (Signature)
Todd Davis	4/30/96 1605	Ron Hamilton
Relinquished by: (Signature)	Date/Time	Received by: (Signature)
Relinquished by: (Signature) Ron Hamilton	Date/Time 4/30/96 1650	Received for Laboratory by: (Signature) Angela Rydelius

Remarks: 3 Day T.A.T. as discussed with Ed.

Attn. Dan Carroll

Send Results To:
KLEINFELDER
7133 KOLL CENTER PARKWAY
SUITE 100
PLEASANTON, CA 94566
(510) 484-1700

vl-60 White - Sampler Canary - Return Copy To Shipper Pink - Lab Copy

CHAIN OF CUSTODY

№ 857

CHROMALAB, INC.

Environmental Services (SDB)

May 21, 1996

Submission #: 9605707

ERICKSON, INC.

Atten: Dave Nielson

Project: MCGRATH IND.
Project#: 968284
Received: May 20, 1996

re: One sample for Miscellaneous Metals analysis.
Method: EPA 3010A/6010A

Client Sample ID: 01
Spl#: 85623
Sampled: May 20, 1996
Matrix: WATER
Run#: 1434
Extracted: May 21, 1996
Analyzed: May 21, 1996

ANALYTE	RESULT (mg/L)	REPORTING LIMIT (mg/L)	BLANK RESULT (mg/L)	BLANK SPIKE (%)	DILUTION FACTOR
ZINC	N.D.	0.010	N.D.	97.8	1

Charles Woolley
Chemist

John S. Labash
Inorganic Supervisor

CHROMALAB, INC.

Environmental Services (SDG)

May 21, 1996 *Submission #:* 9605707

ERICKSON, INC.

Atten: Dave Nielson

Project: MCGRATH IND. *Project#:* 968284
Received: May 20, 1996

re: 1 sample for Gasoline and BTEX compounds analysis.
Method: *EPA 5030/8015M/8020*

Matrix: WATER
Sampled: May 20, 1996 *Run#:* 1450 *Analyzed:* May 21, 1996

Spl#	CLIENT SPL ID	Gasoline (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethyl Benzene (ug/L)	Total Xylenes (ug/L)
85623	01	N.D.	N.D.	N.D.	N.D.	N.D.
Reporting Limits		50	0.50	0.50	0.50	0.50
Blank Result		N.D.	N.D.	N.D.	N.D.	N.D.
Blank Spike Result (%)		103	113	115	119	121

June Zhao
Chemist

Marianne Alexander
Gas/BTEX Supervisor

CHAIN OF CUSTODY RECORD

27879

JOB NO.	PROJECT NAME
968284	MCGRATH AND.
LAB. NO.	SAMPLER (Signature)
DATE 5-20-96	SAMPLE LOCATION/INFORMATION

NO.	SAMPLE LOCATION/INFORMATION	NO. OF CONTAINERS	ANALYSIS: TOTAL ZINC	TPH-GAS	BTEX	REMARKS
01	MCGRATH MOBILE MODULAR	2	X	X	X	24 hr T/A

SUBM #: 9605707 REP: MV
CLIENT: ERICKSON
DUE: 05/21/96
REF #:27879

RUSH

RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)
[signature]	5/20/96	
RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)
RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED FOR LAB BY (Signature)
	5/20/96 1615	Monica Pall

REMARKS

P.O.# E-22831

Please call Dave Nielson at (510) 970-7467

ERICKSON inc. 255 PARR BOULEVARD • RICHMOND, CALIFORNIA 94801 • (415) 235-1393

DRAFT

TASK 3
ANALYTICAL RESULTS
Sample Dates: March 29, 1996, April 17, 1996, May 7, 1996, and May 28, 1996

McCAMPBELL ANALYTICAL INC.
110 2nd Avenue South, #D7, Pacheco, CA 94553
Tele: 510-798-1620 Fax: 510-798-1622

Kleinfelder 7133 Koll Center Parkway, # 100 Pleasanton, CA 94566	Client Project ID: # 10-3002-84/003	Date Sampled: 03/29/96
		Date Received: 03/29/96
	Client Contact: Kristen Scheller	Date Extracted: 03/30-04/03/96
	Client P.O:	Date Analyzed: 03/30-04/03/96

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline*, with BTEX*

EPA methods 5030, modified 8015, and 8020 or 602; California RWQCB (SF Bay Region) method GCFID(5030)

Lab ID	Client ID	Matrix	TPH(g)+	Benzene	Toluene	Ethylbenzene	Xylenes	% Rec. Surrogate
62873	10 E 1700	W	ND	ND	2.3	ND	ND	98
62874	20 E 1704	W	ND	ND	ND	ND	ND	93
62875	20 E 1693	S	ND	ND	ND	ND	ND	96
62876	20 W 1694	S	ND	ND	ND	ND	ND	99
62877	10 W 1697	S	ND	ND	ND	ND	ND	99
62878	10 E 1692	S	ND	ND	ND	ND	ND	96
Reporting Limit unless otherwise stated; ND means not detected above the reporting limit		W	50 ug/L	0.5	0.5	0.5	0.5	
		S	1.0 mg/kg	0.005	0.005	0.005	0.005	

* water and vapor samples are reported in ug/L, soil samples in mg/kg, and all TCLP extracts in mg/L

cluttered chromatogram; sample peak coelutes with surrogate peak

+ The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (?); f) one to a few isolated peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen is present; i) liquid sample that contains greater than ~ 5 vol. % sediment; j) no recognizable pattern.

DHS Certification No. 1644

Edward Hamilton, Lab Director

McCAMPBELL ANALYTICAL INC.
110 2nd Avenue South, #D7, Pacheco, CA 94553
Tele: 510-798-1620 Fax: 510-798-1622

Kleinfelder 7133 Koll Center Parkway, # 100 Pleasanton, CA 94566	Client Project ID: # 10-3002-84/003	Date Sampled: 03/29/96
		Date Received: 03/29/96
	Client Contact: Kristen Scheller	Date Extracted: 03/29/96
	Client P.O:	Date Analyzed: 03/29/96

Zinc*

EPA analytical methods 6010/200.7, 239.2+

Lab ID	Client ID	Matrix	Extraction°	Zinc	% Rec. Surrogate
62875	20 E 1693	S	TTLC	270	92
62876	20 W 1694	S	TTLC	2900	89
62877	10 W 1697	S	TTLC	1400	97
62878	10 E 1692	S	TTLC	1200	91
Reporting Limit unless otherwise stated; ND means not detected above the reporting limit		S	TTLC	1.0	
		W	TTLC	0.01	
		—	STLC,TCLP	0.05	

* soil samples are reported in mg/kg, and water samples and all STLC & TCLP extracts in mg/L

o EPA extraction methods 1311(TCLP), 3010/3020(water,TTLC), 3040(organic matrices,TTLC), 3050(solids,TTLC); STLC from CA Title 22

surrogate diluted out of range; N/A means surrogate not applicable to this analysis

i) liquid sample that contains greater than ~ 2 vol. % sediment; this sediment is extracted with the liquid, in accordance with EPA methodologies and can significantly effect reported metal concentrations.

DHS Certification No. 1644

Edward Hamilton, Lab Director

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110 2nd Avenue South, #D7, Pacheco, CA 94553
Tele: 510-798-1620 Fax: 510-798-1622

Kleinfelder 7133 Koll Center Parkway, # 100 Pleasanton, CA 94566	Client Project ID: # 10-3002-84/003	Date Sampled: 03/29/96
		Date Received: 03/29/96
	Client Contact: Kristen Scheller	Date Extracted: 03/29/96
	Client P.O:	Date Analyzed: 03/29/96

Dissolved Zinc*

EPA analytical methods 6010/200.7, 239.2*

Lab ID	Client ID	Matrix	Extraction°	Zinc	% Rec. Surrogate
62873	10 E 1700	W	TTLC	0.27	NA
62874	20 E 1704	W	TTLC	0.086	NA
Reporting Limit unless otherwise stated; ND means not detected above the reporting limit		S	TTLC	1.0	
		W	TTLC	0.01	
		---	STLC,TCLP	0.05	

* soil samples are reported in mg/kg, and water samples and all STLC & TCLP extracts in mg/L

o EPA extraction methods 1311(TCLP), 3010/3020(water,TTLC), 3040(organic matrices,TTLC), 3050(solids,TTLC); STLC from CA Title 22

surrogate diluted out of range; N/A means surrogate not applicable to this analysis

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McCAMPBELL ANALYTICAL INC.
110 2nd Avenue South, #D7, Pacheco, CA 94553
Tele: 510-798-1620 Fax: 510-798-1622

QC REPORT FOR HYDROCARBON ANALYSES

Date: 03/30/96 Matrix: Water

Analyte	Concentration (ug/L) Sample (#62829)	MS	MSD	Amount Spiked	% Recovery MS	MSD	RPD
TPH (gas)	0.0	100.9	99.4	100.0	100.9	99.4	1.5
Benzene	0.0	9.5	9.7	10.0	95.0	97.0	2.1
Toluene	0.0	9.5	9.7	10.0	95.0	97.0	2.1
Ethyl Benzene	0.0	9.4	9.6	10.0	94.0	96.0	2.1
Xylenes	0.0	27.6	28.2	30.0	92.0	94.0	2.2
TPH (diesel)	0	146	145	150	97	97	0.8
TRPH (oil & grease)	N/A	N/A	N/A	N/A	N/A	N/A	N/A

% Rec. = (MS - Sample) / amount spiked x 100

RPD = (MS - MSD) / (MS + MSD) x 2 x 100

McCAMPBELL ANALYTICAL INC.
110 2nd Avenue South, #D7, Pacheco, CA 94553
Tele: 510-798-1620 Fax: 510-798-1622

QC REPORT FOR HYDROCARBON ANALYSES

Date: 04/01/96 Matrix: Soil

Analyte	Concentration (mg/kg) Sample (#62725)	MS	MSD	Amount Spiked	% Recovery MS	MSD	RPD
TPH (gas)	0.000	1.843	1.643	2.03	91	81	11.5
Benzene	0.000	0.196	0.198	0.2	98	99	1.0
Toluene	0.000	0.210	0.208	0.2	105	104	1.0
Ethylbenzene	0.000	0.208	0.204	0.2	104	102	1.9
Xylenes	0.000	0.606	0.602	0.6	101	100	0.7
TPH (diesel)	0	305	295	300	102	98	3.4
TRPH (oil and grease)	N/A	N/A	N/A	N/A	N/A	N/A	N/A

% Rec. = (MS - Sample) / amount spiked x 100

RPD = (MS - MSD) / (MS + MSD) x 2 x 100

McCAMPBELL ANALYTICAL INC.
110 2nd Avenue South, #D7, Pacheco, CA 94553
Tele: 510-798-1620 Fax: 510-798-1622

QC REPORT FOR HYDROCARBON ANALYSES

Date: 04/02/96 Matrix: Soil

Analyte	Concentration (mg/kg) Sample (#62725)	MS	MSD	Amount Spiked	% Recovery MS	MSD	RPD
TPH (gas)	0.000	1.984	2.085	2.03	98	103	4.9
Benzene	0.000	0.186	0.198	0.2	93	99	6.3
Toluene	0.000	0.188	0.206	0.2	94	103	9.1
Ethylbenzene	0.000	0.186	0.206	0.2	93	103	10.2
Xylenes	0.000	0.546	0.608	0.6	91	101	10.7
TPH (diesel)	N/A	N/A	N/A	N/A	N/A	N/A	N/A
TRPH (oil and grease)	N/A	N/A	N/A	N/A	N/A	N/A	N/A

% Rec. = (MS - Sample) / amount spiked x 100

RPD = (MS - MSD) / (MS + MSD) x 2 x 100

McCAMPBELL ANALYTICAL INC.
110 2nd Avenue South, #D7, Pacheco, CA 94553
Tele: 510-798-1620 Fax: 510-798-1622

QC REPORT FOR HYDROCARBON ANALYSES

Date: 04/02/96-04/03/96 Matrix: Water

Analyte	Concentration (ug/L) Sample (#62941)	MS	MSD	Amount Spiked	% Recovery MS	MSD	RPD
TPH (gas)	0.0	105.2	107.0	100.0	105.2	107.0	1.7
Benzene	0.0	10.9	11.2	10.0	109.0	112.0	2.7
Toluene	0.0	11.0	11.2	10.0	110.0	112.0	1.8
Ethyl Benzene	0.0	11.0	11.2	10.0	110.0	112.0	1.8
Xylenes	0.0	33.3	34.0	30.0	111.0	113.3	2.1
TPH (diesel)	0	147	147	150	98	98	0.3
TRPH (oil & grease)	N/A	N/A	N/A	N/A	N/A	N/A	N/A

% Rec. = (MS - Sample) / amount spiked x 100

RPD = (MS - MSD) / (MS + MSD) x 2 x 100

McCAMPBELL ANALYTICAL INC.
110 2nd Avenue South, #D7, Pacheco, CA 94553
Tele: 510-798-1620 Fax: 510-798-1622

QC REPORT FOR AA METALS

Date: 03/29/96 Matrix: Water

Analyte	Concentration (mg/L)			Amount	% Recovery		RPD
	Sample	MS	MSD		MS	MSD	
Total Lead	0.00	5.43	5.14	5.00	109	103	5.5
Total Cadmium	0.00	5.87	5.80	5.00	117	116	1.3
Total Chromium	0.00	5.46	5.44	5.00	109	109	0.3
Total Nickel	0.00	5.24	5.18	5.00	105	104	1.2
Total Zinc	0.00	5.56	5.54	5.00	111	111	0.4
Total Copper	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Organic Lead	N/A	N/A	N/A	N/A	N/A	N/A	N/A

% Rec. = (MS - Sample) / amount spiked x 100

RPD = (MS - MSD) / (MS + MSD) x 2 x 100

McCAMPBELL ANALYTICAL INC.
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Tele: 510-798-1620 Fax: 510-798-1622

QC REPORT FOR AA METALS

Date: 03/29/96 Matrix: Soil

Analyte	Concentration (mg/kg,mg/L) Sample	MS	MSD	Amount Spiked	% Recovery MS	MSD	RPD
Total Lead	0.0	4.79	4.79	5.0	96	96	0.1
Total Cadmium	0.0	5.19	5.16	5.0	104	103	0.4
Total Chromium	0.0	4.88	4.83	5.0	98	97	1.0
Total Nickel	0.0	4.76	4.80	5.0	95	96	0.9
Total Zinc	0.0	4.98	4.94	5.0	100	99	0.7
STLC Lead	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Organic Lead	N/A	N/A	N/A	N/A	N/A	N/A	N/A

% Rec. = (MS - Sample) / amount spiked x 100

RPD = (MS - MSD) / (MS + MSD) x 2 x 100

[illegible]

6131ARFX6

PROJ NO	PROJECT NAME
	10-3002-84/003

L.P. NO (P.O. NO.)	SAMPLERS: (Signature/Number)
R3537	

DATE MM DD YY	SAMPLE I.D. TIME HH MM SS	SAMPLE I.D.	NO OF CONTAINERS	ANALYSIS: TPH+BTEX	Zinc		REMARKS
3-29-96	1210	10'E 1700	4	✓	✓	Dissolved Zn	62873
	1220	20'E 1704	4	✓	✓	" "	62874
	1215	20'E 1693	1	✓	✓		62875
	1200	20'W 1694	1	✓	✓		62876
	1150	10'W 1697	1	✓	✓		62877
↓	1205	10'E 1672	1	✓	✓		62878

ICE/T° ✓ PRESERVATIVE (VOAS | O&G | METALS ✓ | OTHER) ✓
GOOD CONDITION ✓ APPROPRIATE
HEAD SPACE ABSENT ✓ CONTAINERS ✓

W. Filtered and Preserved In Lab upon ARRIVAL

Relinquished by: (Signature)	Date/Time	Received by: (Signature)
[signature]	3-29-96 1400	Ron Hamilton (SRA)
Relinquished by: (Signature)	Date/Time	Received by: (Signature)
Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)
Ron Hamilton	3-29-96 1550	[signature]

Remarks: Standard TAT

Send Results To: Kristen Scheller
KLEINFELDER
7133 KOLL CENTER PARKWAY
SUITE 100
PLEASANTON, CA 94566
(510) 484-1700
484 5838 FAX

M-60 White - Sampler Canary - Return Copy To Shipper Pink - Lab Copy No 825

CHAIN OF CUSTODY

McCAMPBELL ANALYTICAL INC.
110 2nd Avenue South, #D7, Pacheco, CA 94553
Tele: 510-798-1620 Fax: 510-798-1622

Kleinfelder 7133 Koll Center Parkway, # 100 Pleasanton, CA 94566	Client Project ID: # 10-3002-84.003	Date Sampled: 04/17/96 Date Received: 04/17/96
	Client Contact: Kristen Scheller	Date Extracted: 04/17/96
	Client P.O: # R3540	Date Analyzed: 04/17/96

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline*, with BTEX*

EPA methods 5030, modified 8015, and 8020 or 602; California RWQCB (SF Bay Region) method GCFID(5030)

Lab ID	Client ID	Matrix	TPH(g)+	Benzene	Toluene	Ethylben-zene	Xylenes	% Rec. Surrogate
63306	E30	S	ND	ND	ND	ND	ND	101
63307	E40	S	ND	ND	ND	ND	ND	101
Reporting Limit unless otherwise stated; ND means not detected above the reporting limit		W	50 ug/L	0.5	0.5	0.5	0.5	
		S	1.0 mg/kg	0.005	0.005	0.005	0.005	

* water and vapor samples are reported in ug/L, soil samples in mg/kg, and all TCLP extracts in mg/L

cluttered chromatogram; sample peak coelutes with surrogate peak

+ The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (?); f) one to a few isolated peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen is present; i) liquid sample that contains greater than ~ 5 vol. % sediment; j) no recognizable pattern.

DHS Certification No. 1644

Edward Hamilton, Lab Director

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Kleinfelder 7133 Koll Center Parkway, # 100 Pleasanton, CA 94566	Client Project ID: # 10-3002-84.003	Date Sampled: 04/17/96
		Date Received: 04/17/96
	Client Contact: Kristen Scheller	Date Extracted: 04/17/96
	Client P.O: # R3540	Date Analyzed: 04/18/96

Zinc*

EPA analytical methods 6010/200.7

Lab ID	Client ID	Matrix	Extraction°	Zinc	% Rec. Surrogate
63306	E30	S	TTLC	100	96
63307	E40	S	TTLC	69	96
Reporting Limit unless otherwise stated; ND means not detected above the reporting limit		S	TTLC	1.0	
		W	TTLC	0.01	
		—	STLC,TCLP	0.05	

* soil samples are reported in mg/kg, and water samples and all STLC & TCLP extracts in mg/L

° EPA extraction methods 1311(TCLP), 3010/3020(water,TTLC), 3040(organic matrices,TTLC), 3050(solids,TTLC); STLC from CA Title 22

surrogate diluted out of range; N/A means surrogate not applicable to this analysis

i) liquid sample that contains greater than ~ 2 vol. % sediment; this sediment is extracted with the liquid, in accordance with EPA methodologies and can significantly effect reported metal concentrations.

DHS Certification No. 1644

Edward Hamilton, Lab Director

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110 2nd Avenue South, #D7, Pacheco, CA 94553
Tele: 510-798-1620 Fax: 510-798-1622

QC REPORT FOR METALS

Date: 04/18/96 Matrix: Soil

Extraction: TTLC

Analyte	Concentration (mg/kg)			Amount	% Recovery		RPD
	Sample	MS	MSD	Spiked	MS	MSD	
Arsenic	0.00	4.71	4.82	5.0	94	96	2.4
Selenium	0.00	4.39	4.56	5.0	88	91	3.9
Molybdenum	0.00	4.54	4.64	5.0	91	93	2.2
Silver	0.00	0.40	0.41	0.5	80	83	3.0
Thallium	0.0	4.85	4.84	5.0	97	97	0.0
Barium	0.00	4.10	4.20	5.0	82	84	2.3
Nickel	0.00	4.70	4.82	5.0	94	96	2.6
Chromium	0.00	4.64	4.77	5.0	93	95	2.8
Vanadium	0.00	4.53	4.62	5.0	91	92	1.9
Beryllium	0.00	4.66	4.76	5.0	93	95	2.2
Zinc	0.00	4.68	4.84	5.0	94	97	3.4
Copper	0.00	4.25	4.34	5.0	85	87	2.1
Antimony	0.00	4.48	4.62	5.0	90	92	3.1
Lead	0.00	4.45	4.56	5.0	89	91	2.4
Cadmium	0.00	4.87	4.99	5.0	97	100	2.6
Cobalt	0.00	4.57	4.66	5.0	91	93	2.1
Mercury	0.000	0.255	0.270	0.25	102	108	5.7

% Rec. = (MS - Sample) / amount spiked x 100

RPD = (MS - MSD) / (MS + MSD) x 2 x 100

KLEINFELDER

6229AKFX13

PROJ NO	PROJECT NAME	NO OF CONTAINERS	ANALYSIS: TPHg+BTEX	Zinc	REMARKS
	10.3002-84.003				

L P NO (P.O. NO.)	SAMPLERS: (Signature/Number)
R3540	[signature] 1963

DATE MM DD YY	SAMPLE I D TIME HH MM SS	SAMPLE I D	NO OF CONTAINERS	TPHg+BTEX	Zinc	REMARKS
4.17.96		E30		✓	✓	63306
		E40		✓	✓	63307

ICE/T° ✓ GOOD CONDITION ✓ HEAD SPACE ABSENT ✓

PRESERVATIVE ___ VOAS O&G METALS OTHER

APPROPRIATE CONTAINERS ✓

Relinquished by: (Signature)	Date/Time	Received by: (Signature)
[signature]	4.17.96 1340	[signature]
Relinquished by: (Signature)	Date/Time	Received by: (Signature)
Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)

Remarks: 2day TAT

Send Results To: Kristen Scheller
KLEINFELDER
7133 KOLL CENTER PARKWAY
SUITE 100
PLEASANTON, CA 94566
(510) 484-1700
484 5838 FAX

M-60 White - Sampler Canary - Return Copy To Shipper Pink - Lab Copy No. 837

CHAIN OF CUSTODY

McCAMPBELL ANALYTICAL INC.
110 2nd Avenue South, #D7, Pacheco, CA 94553
Tele: 510-798-1620 Fax: 510-798-1622

Kleinfelder 7133 Koll Center Parkway, # 100 Pleasanton, CA 94566	Client Project ID: # 10-3002-84/003; McGrath	Date Sampled: 05/07/96
		Date Received: 05/08/96
	Client Contact: Dan Carroll	Date Extracted: 05/08/96
	Client P.O: # R3599	Date Analyzed: 05/08/96

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline*, with BTEX*

EPA methods 5030, modified 8015, and 8020 or 602; California RWQCB (SF Bay Region) method GCFID(5030)

Lab ID	Client ID	Matrix	TPH(g)+	Benzene	Toluene	Ethylbenzene	Xylenes	% Rec. Surrogate
64870	Composite 6	S	1.4,b,d	ND	0.005	ND	0.008	103
Reporting Limit unless otherwise stated; ND means not detected above the reporting limit		W	50 ug/L	0.5	0.5	0.5	0.5	
		S	1.0 mg/kg	0.005	0.005	0.005	0.005	

* water and vapor samples are reported in ug/L, soil samples in mg/kg, and all TCLP extracts in mg/L

cluttered chromatogram; sample peak coelutes with surrogate peak

+ The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (?); f) one to a few isolated peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen is present; i) liquid sample that contains greater than ~ 5 vol. % sediment; j) no recognizable pattern.

DHS Certification No. 1644

Edward Hamilton, Lab Director

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Tele: 510-798-1620 Fax: 510-798-1622

Kleinfelder 7133 Koll Center Parkway, # 100 Pleasanton, CA 94566	Client Project ID: # 10-3002-84/003; McGrath	Date Sampled: 05/07/96
		Date Received: 05/08/96
	Client Contact: Dan Carroll	Date Extracted: 05/09/96
	Client P.O: # R3599	Date Analyzed: 05/10/96

Total Zinc

EPA analytical methods 6010/200.7

Lab ID	Client ID	Matrix	Extraction°	Zinc	% Rec. Surrogate
64867	Composite 2	S	TTLC	100	93
64868	Composite 3	S	TTLC	230	96
64869	Composite 1	S	TTLC	260	92
64870	Composite 6	S	TTLC	190	92
64871	Composite 5	S	TTLC	170	94
64872	Composite 4	S	TTLC	260	94
Reporting Limit unless otherwise stated; ND means not detected above the reporting limit		S	TTLC	1.0	
		W	TTLC	0.01	
		—	STLC,TCLP	0.05	

* soil samples are reported in mg/kg, and water samples and all STLC & TCLP extracts in mg/L

o EPA extraction methods 1311(TCLP), 3010/3020(water,TTLC), 3040(organic matrices,TTLC), 3050(solids,TTLC); STLC from CA Title 22

surrogate diluted out of range; N/A means surrogate not applicable to this analysis

i) liquid sample that contains greater than ~ 2 vol. % sediment; this sediment is extracted with the liquid, in accordance with EPA methodologies and can significantly effect reported metal concentrations.

DHS Certification No. 1644

Edward Hamilton, Lab Director

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110 2nd Avenue South, #D7, Pacheco, CA 94553
Tele: 510-798-1620 Fax: 510-798-1622

QC REPORT FOR HYDROCARBON ANALYSES

Date: 05/08/96 Matrix: Soil

Analyte	Concentration (mg/kg) Sample (#63141)	MS	MSD	Amount Spiked	% Recovery MS	MSD	RPD
TPH (gas)	0.000	1.667	1.686	2.03	82	83	1.1
Benzene	0.000	0.164	0.164	0.2	82	82	0.0
Toluene	0.000	0.170	0.170	0.2	85	85	0.0
Ethylbenzene	0.000	0.174	0.172	0.2	87	86	1.2
Xylenes	0.000	0.508	0.510	0.6	85	85	0.4
TPH (diesel)	0	326	322	300	109	107	1.4
TRPH (oil and grease)	N/A	N/A	N/A	N/A	N/A	N/A	N/A

% Rec. = (MS - Sample) / amount spiked x 100

RPD = (MS - MSD) / (MS + MSD) x 2 x 100

McCAMPBELL ANALYTICAL INC.
110 2nd Avenue South, #D7, Pacheco, CA 94553
Tele: 510-798-1620 Fax: 510-798-1622

QC REPORT FOR AA METALS

Date: 05/10/96 Matrix: Soil

Analyte	Concentration (mg/kg, mg/L)			Amount	% Recovery		
	Sample	MS	MSD	Spiked	MS	MSD	RPD
Total Lead	0.0	5.21	5.25	5.0	104	105	0.8
Total Cadmium	0.0	5.57	5.61	5.0	111	112	0.8
Total Chromium	0.0	5.20	5.27	5.0	104	105	1.3
Total Nickel	0.0	5.07	5.17	5.0	101	103	2.0
Total Zinc	0.0	5.38	5.42	5.0	108	108	0.6
Total Copper	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Organic Lead	N/A	N/A	N/A	N/A	N/A	N/A	N/A

% Rec. = (MS - Sample) / amount spiked x 100

RPD = (MS - MSD) / (MS + MSD) x 2 x 100

KLEINFELDER

6341AKFX17

PROJ NO	PROJECT NAME
10-3002-04/03	McGrath
LP NO / P.O. NO.	SAMPLERS: (Signature/Number)
R3599	KBR 3014

DATE MM DD YY	SAMPLE I.D TIME HH MM SS	SAMPLE I.D	NO OF CONTAINERS	ANALYSIS: Zinc (total)	TPH-g/BTEX		REMARKS
5-7-96	11:20	2A } composite 2		X			Soil
	11:30	2B }					64867
	11:35	3A } composite 3		X			
	11:40	3B }					64868
	11:48	4A					
	11:55	1B } composite 1		X			
	12:00	1A }					64869
	12:20	6B } composite 6		X	X		
	12:25	6A }					64870
	12:35	4B					
	12:55	5E					
	13:00	5D					
	13:05	5A } composite 5		X			
	13:10	5C }					64871
	13:15	5B }					
		composite 4		X			Composite 4 = 4A+4B
							64872

Relinquished by: (Signature)	Date/Time	Received by: (Signature)
KBR	5/8/96 9:53	Steve Ruiz 719
Steve Ruiz 719	5-8-96 11:47	Nicki Ricca
Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)

Remarks: Standard T.A.T

Send Results To:
Attn: Dan Carroll
KLEINFELDER
7133 KOLL CENTER PARKWAY
SUITE 100
PLEASANTON, CA 94566
(510) 484-1700

M-60 White - Sampler Canary - Return Copy To Shipper Pink - Lab Copy

McCAMPBELL ANALYTICAL INC. | 110 2nd Avenue South, #D7, Pacheco, CA 94553
Tele: 510-798-1620 Fax: 510-798-1622

Kleinfelder 7133 Koll Center Parkway, # 100 Pleasanton, CA 94566	Client Project ID: # 10-3002-84; McGrath	Date Sampled: 05/28/96
		Date Received: 05/28/96
	Client Contact: Alan Gibbs	Date Extracted: 05/28-05/29/96
	Client P.O: R3647	Date Analyzed: 05/29/96

Zinc*

EPA analytical methods 6010/200.7, 239.2+

Lab ID	Client ID	Matrix	Extraction°	Zinc*	% Recovery Surrogate
65424	KB-W30	S	TTLC	2200	96
65425	KB-W50	S	TTLC	2600	94
65426	KB-W75	S	TTLC	2800	93
65427	KB-W100	S	TTLC	1100	94
65428	KW-W100	W	TTLC	1.8	100
65431	KW-W200	W	TTLC	1.4	99
65429	KB-W150	S	TTLC	130	93
65430	KB-W200	S	TTLC	93	102
65432	KB-W250	S	TTLC	550	103
65433	KB-W300	S	TTLC	750	90
Reporting Limit unless otherwise stated; ND means not detected above the reporting limit		S	TTLC	1.0 mg/kg	
		W	TTLC	0.010 mg/L	
		—	STLC,TCLP	0.05 mg/L	

* soil samples are reported in mg/kg, and water samples and all STLC & TCLP extracts in mg/L

+ Lead is analysed using EPA method 6010 (ICP)for soils, STLC & TCLP extracts and method 239.2 (AA Furnace) for water samples

o EPA extraction methods 1311(TCLP), 3010/3020(water,TTLC), 3040(organic matrices,TTLC), 3050(solids,TTLC); STLC from CA Title 22

surrogate diluted out of range; N/A means surrogate not applicable to this analysis

i) liquid sample that contains greater than ~ 2 vol. % sediment; this sediment is extracted with the liquid, in accordance with EPA methodologies and can significantly effect reported metal concentrations.

DHS Certification No. 1644

Edward Hamilton, Lab Director

McCAMPBELL ANALYTICAL INC.
110 2nd Avenue South, #D7, Pacheco, CA 94553
Tele: 510-798-1620 Fax: 510-798-1622

Kleinfelder 7133 Koll Center Parkway, # 100 Pleasanton, CA 94566	Client Project ID: # 10-3002-84; McGrath	Date Sampled: 05/28/96
		Date Received: 05/28/96
	Client Contact: Alan Gibbs	Date Extracted: 05/29/96
	Client P.O: R3647	Date Analyzed: 05/29/96

Analytical methods			pH EPA 150.1, 9040, 9045	Ignitability EPA 1010
Lab ID	Client ID	Matrix	pH	Flashpoint
65424	KB-W30	S	7.00	---
65425	KB-W50	S	6.84	---
65426	KB-W75	S	6.87	---
65427	KB-W100	S	6.62	---
65428	KW-W100	W	6.68	---
65431	KW-W250	W	7.00	---
65429	KB-W150	S	6.65	---
65430	KB-W200	S	7.10	---
65432	KB-W250	S	6.62	---
65433	KB-W300	S	6.75	---
Reporting Limit or Method Accuracy unless otherwise stated; ND		W	± 0.05	± 2°C
means not detected above the reporting limit; N/A means not applicable		S	± 0.1	N/A
Reporting Units		W,S	$-\log(a_H^+)$	°C

DHS Certification No. 1644

Edward Hamilton, Lab Director

McCAMPBELL ANALYTICAL INC.
110 2nd Avenue South, #D7, Pacheco, CA 94553
Tele: 510-798-1620 Fax: 510-798-1622

Alan Gibbs
Kleinfelder Inc.
7133 Koll Center Parkway, # 100
Pleasanton, CA 94566

June 20, 1996

Dear Alan:

This note is to explain / interpret the result of the solid phase study that we did for Kleinfelder from 06/04-06/13/96 on two high zinc samples.

A low power microscopic examination of CB-1 ("the source") revealed the presence of flexible, irregularly shaped 'strips' of paint. Zn is present as finely ground metallic power in Zn-rich primer paints. A similar examination of KB-W30 (a 'downstream' Zn-rich sample) revealed abundant plant material intermixed with sediment .

Three extractions were performed sequentially on each sample, with methodologies and results as follows.

Initially, 20ml deionized water was mixed with 20g soil by rotating TCLP style for 18 hours. This water was removed after centrifugation and for both samples was found to contain very low levels of Zn relative to the TTLC extraction (< 0.1%), indicating that readily water soluble zinc salts such as $ZnSO_4$ or ZnCl are negligible.

Next, the same sediment, after decanting all of the deionized water, was mixed with 20ml of deionized water that was made to pH= 4.0± 0.1 with 1:1 HCl. The sample was vortexed and centrifuged repeatedly until the desired water pH was achieved. A faint H_2S smell was noted. Again, this fluid was removed after centrifugation and found to contain relatively low levels of Zn (< 5% of the TTLC value) for both samples, indicating that $ZnCO_3$, ZnO and $Zn(OH)_2$ are not present in significant quantities. I do not know for certain but believe that ZnS would not be appreciably soluble at this pH.

Next, after decanting the previous fluid, a 2.0 gram vertical section aliquot was removed for TTLC extraction. Much higher Zn values were found than by the other two extractions , indicating that Zn was present as Zn°, ZnS, incorporated in other sulfide mineral lattices (FeS, FeS_2) or incorporated in bio/plant mass. Sulfate was looked for by the addition of $BaNO_3$ to the TTLC extracts to precipitate $BaSO_4$ followed by filtration and gravimetric measurement. This technique did not have adequate sensitivity, but a crude estimate of the S leached is ~ 200 mg/kg equivalent to ~ 400 mg/kg Zn, assuming that all of the S is bonded to Zn and ZnS stoichiometry. However, FeS is a more likely source of acid-soluble S rather than ZnS because of Fe's predominance in sediments. Although Zn may plausibly substitute into the FeS_2 lattice, this iron mineral is very difficult to decompose and is unlikely to be affected by the TTLC digestion. Hence Zn is probably present unchanged as Zn° or incorporated into plant mass.

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CB-1 had little plant material but it was abundant in KB-W30. Plant and sediment from a different portion of KB-W30 were separated with the aid of a microscope and TTLC digested. Approximately 75% of the Zn resided in the sediment and 25% in the plants.

Yours truly,

Edward Hamilton, Laboratory Director

McCAMPBELL ANALYTICAL INC. | 110 2nd Avenue South, #D7, Pacheco, CA 94553
Tele: 510-798-1620 Fax: 510-798-1622

Kleinfelder 7133 Koll Center Parkway, # 100 Pleasanton, CA 94566	Client Project ID: # 10-3002-84; McGrath	Date Sampled: 05/28/96
		Date Received: 05/28/96
	Client Contact: Alan Gibbs	Date Extracted: 06/04-06/08/96
	Client P.O: R3647	Date Analyzed: 06/04-06/13/96

Zinc*

EPA analytical methods 6010/200.7,

Lab ID	Client ID	Matrix	Extraction°	Zinc*	% Recovery Surrogate
61513	CB-1	S	1:1 DI Extract(1)	0.30	N/A
61513	CB-1	S	1:1 pH= 4.0 DI Extract(2)	22	N/A
61513	CB-1	S	TTLC(3)	3700	94
65424	KB-W30	S	1:1 DI Extract(1)	1.9	N/A
65424	KB-W30	S	1:1 pH= 4.0 DI Extract(2)	74	N/A
65424	KB-W30	S	TTLC(3)	1960	93
65424	KB-W30	sediment	TTLC	76%= 1490	---
65424	KB-W30	plants	TTLC	24%= 470	---

(1) 20ml DI:20g soil extraction, rotated for 18 hours

(2) 20 ml pH~ 4.0 unbuffered (HCl) DI:20g soil extraction, vortexed for 60 seconds during pH adjustments

(3) SO_4^{-2} was looked for by the addition of barium nitrate to these TTLC extracts to precipitate $BaSO_4$, followed by 0.45 um filtration &gravimetric measurement. This technique did not have adequte sensativity, but a crude estimate of the S leached is ~ 200 mg/kg, equivalent to ~ 400 mg/kg Zn, assuming a 1:1 stoichiometry, ie ZnS. A weak smell of H_2S was noted during the pH= 4 extraction.

Reporting Limit unless otherwise stated; ND means not detected above the reporting limit	S	TTLC	1.0 mg/kg	
	S	DI Extractions	0.05 mg/L	
	—	STLC	0.05 mg/L	

* soil samples are reported in mg/kg, and water samples and all DI, STLC & TCLP extracts in mg/L

o EPA extraction methods 1311(TCLP), 3010/3020(water,TTLC), 3040(organic matrices,TTLC), 3050(solids,TTLC); STLC from CA Title 22

surrogate diluted out of range; N/A means surrogate not applicable to this analysis

i) liquid sample that contains greater than ~ 2 vol. % sediment; this sediment is extracted with the liquid, in accordance with EPA methodologies and can significantly effect reported metal concentrations.

DHS Certification No. 1644

Edward Hamilton, Lab Director

McCAMPBELL ANALYTICAL INC.
110 2nd Avenue South, #D7, Pacheco, CA 94553
Tele: 510-798-1620 Fax: 510-798-1622

Kleinfelder 7133 Koll Center Parkway, # 100 Pleasanton, CA 94566	Client Project ID: # 10-3002-84; McGrath	Date Sampled: 05/28/96
		Date Received: 05/28/96
	Client Contact: Alan Gibbs	Date Extracted: 06/04-06/08/96
	Client P.O: R3647	Date Analyzed: 06/07-06/13/96

Metals by ICP*

EPA analytical methods 6010, 200.7

Lab ID	Client ID	Extraction°	Copper	Manganese*	Iron*	Magnesium	Sodium*	Calcium*
61513	CB-1	1:1 DI Extraction(1)	ND	0.076	0.15	21	89	41
65424	KB-W30	1:1 DI Extraction(1)	0.072	5.6	7.1	28	68	48

(1) 20ml DI:20g soil extraction, rotated for 18 hours

Reporting Limit unless otherwise stated; ND means not detected above the reporting limit		1:1 DI Extraction	0.05 mg/L	0.05	0.05	0.05	0.5	0.05
		TTLC	2.5 mg/kg	1.0	3.0	5.0	25	1.0
		STLC,TCLP	0.10 mg/L	0.10	0.10	—	—	—

* soil samples are reported in mg/kg, and water samples and all DI, STLC & TCLP extracts in mg/L

o EPA extraction methods 1311(TCLP), 3010/3020(water,TTLC), 3040(organic matrices,TTLC), 3050(solids,TTLC); STLC from CA Title 22

i) liquid sample that contains greater than ~ 2 vol. % sediment; this sediment is extracted with the liquid, in accordance with EPA methodologies and can significantly effect reported metal concentrations.

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Edward Hamilton, Lab Director

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110 2nd Avenue South, #D7, Pacheco, CA 94553
Tele: 510-798-1620 Fax: 510-798-1622

Kleinfelder 7133 Koll Center Parkway, # 100 Pleasanton, CA 94566	Client Project ID: # 10-3002-84; McGrath	Date Sampled: 05/28/96
		Date Received: 05/28/96
	Client Contact: Alan Gibbs	Date Extracted: 05/30-05/31/96
	Client P.O: R3647	Date Analyzed: 05/31/96

Zinc*

EPA analytical methods 6010/200.7, 239.2+

Lab ID	Client ID	Matrix	Extraction°	Zinc*	% Recovery Surrogate
65426	KB-W75	S	DI TCLP	1.1	N/A
65429	KB-W150	S	DI TCLP	0.23	N/A
65433	KB-W300	S	DI TCLP	0.16	N/A

Reporting Limit unless otherwise stated; ND means not detected above the reporting limit	S	TTLC	1.0 mg/kg	
	W	TTLC	0.010 mg/L	
	—	DI TCLP	0.02 mg/L	

* soil samples are reported in mg/kg, and water samples and all STLC & TCLP extracts in mg/L

+ Lead is analysed using EPA method 6010 (ICP)for soils, STLC & TCLP extracts and method 239.2 (AA Furnace) for water samples

o EPA extraction methods 1311(TCLP), 3010/3020(water,TTLC), 3040(organic matrices,TTLC), 3050(solids,TTLC); STLC from CA Title 22

surrogate diluted out of range; N/A means surrogate not applicable to this analysis

i) liquid sample that contains greater than ~ 2 vol. % sediment; this sediment is extracted with the liquid, in accordance with EPA methodologies and can significantly effect reported metal concentrations.

DHS Certification No. 1644

Edward Hamilton, Lab Director

McCAMPBELL ANALYTICAL INC.
110 2nd Avenue South, #D7, Pacheco, CA 94553
Tele: 510-798-1620 Fax: 510-798-1622

QC REPORT FOR AA METALS

Date: 05/29/96 Matrix: Soil

Analyte	Concentration (mg/kg,mg/L) Sample	MS	MSD	Amount Spiked	% Recovery MS	MSD	RPD
Total Lead	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total Cadmium	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total Chromium	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total Nickel	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total Zinc	0.0	5.07	5.03	5.0	101	101	0.9
STLC Lead	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SPLP Lead	N/A	N/A	N/A	N/A	N/A	N/A	N/A

% Rec. = (MS - Sample) / amount spiked x 100

RPD = (MS - MSD) / (MS + MSD) x 2 x 100

McCAMPBELL ANALYTICAL INC.
110 2nd Avenue South, #D7, Pacheco, CA 94553
Tele: 510-798-1620 Fax: 510-798-1622

QC REPORT FOR AA METALS

Date: 05/29/96 Matrix: Water

Analyte	Concentration (mg/L)			Amount	% Recovery		RPD
	Sample	MS	MSD		MS	MSD	
Total Lead	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total Chromium	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total Cadmium	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total Nickel	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total Zinc	0.00	4.72	4.79	5.00	94	96	1.3
Total Copper	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Organic Lead	N/A	N/A	N/A	N/A	N/A	N/A	N/A

% Rec. = (MS - Sample) / amount spiked x 100

RPD = (MS - MSD) / (MS + MSD) x 2 x 100

McCAMPBELL ANALYTICAL INC.
110 2nd Avenue South, #D7, Pacheco, CA 94553
Tele: 510-798-1620 Fax: 510-798-1622

QC REPORT FOR AA METALS

Date: 06/04/96 Matrix: Solids

Analyte	Concentration (mg/kg, mg/L) Sample	MS	MSD	Amount Spiked	% Recovery MS	MSD	RPD
Total Lead	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total Cadmium	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total Chromium	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total Nickel	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total Zinc	0.0	5.10	5.08	5.0	102	102	0.5
STLC Lead	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SPLP Lead	N/A	N/A	N/A	N/A	N/A	N/A	N/A

% Rec. = (MS - Sample) / amount spiked x 100

RPD = (MS - MSD) / (MS + MSD) x 2 x 100

McCAMPBELL ANALYTICAL INC. | 110 2nd Avenue South, #D7, Pacheco, CA 94553
Tele: 510-798-1620 Fax: 510-798-1622

QC REPORT FOR AA METALS

Date: 06/13/96 Matrix: Soil

Analyte	Concentration (mg/kg,mg/L) Sample	MS	MSD	Amount Spiked	% Recovery MS	MSD	RPD
Total Lead	0.0	4.82	4.69	5.0	96	94	2.7
Total Cadmium	0.0	5.27	5.08	5.0	105	102	3.8
Total Chromium	0.0	4.88	4.72	5.0	98	94	3.3
Total Nickel	0.0	4.93	4.76	5.0	99	95	3.6
Total Zinc	0.0	5.13	5.06	5.0	103	101	1.5
STLC Lead	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SPLP Lead	N/A	N/A	N/A	N/A	N/A	N/A	N/A

% Rec. = (MS - Sample) / amount spiked x 100

RPD = (MS - MSD) / (MS + MSD) x 2 x 100

McCAMPBELL ANALYTICAL INC.
110 2nd Avenue South, #D7, Pacheco, CA 94553
Tele: 510-798-1620 Fax: 510-798-1622

QC REPORT FOR AA METALS

Date: 06/07/96 Matrix: Soil

Analyte	Concentration (mg/kg,mg/L)			Amount	% Recovery		RPD
	Sample	MS	MSD	Spiked	MS	MSD	
Total Lead	0.0	5.27	5.25	5.0	105	105	0.3
Total Cadmium	0.0	5.76	5.68	5.0	115	114	1.5
Total Chromium	0.0	5.34	5.30	5.0	107	106	0.8
Total Nickel	0.0	5.22	5.27	5.0	104	105	1.0
Total Zinc	0.0	5.53	5.50	5.0	111	110	0.5
STLC Lead	0.00	5.24	5.11	5.0	105	102	2.5
SPLP Lead	N/A	N/A	N/A	N/A	N/A	N/A	N/A

% Rec. = (MS - Sample) / amount spiked x 100

RPD = (MS - MSD) / (MS + MSD) x 2 x 100

McCAMPBELL ANALYTICAL INC.
110 2nd Avenue South, #D7, Pacheco, CA 94553
Tele: 510-798-1620 Fax: 510-798-1622

QC REPORT FOR AA METALS

Date: 05/31/96 Matrix: DI TCLP

Analyte	Concentration (mg/kg,mg/L) Sample	MS	MSD	Amount Spiked	% Recovery MS	MSD	RPD
Total Lead	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total Cadmium	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total Chromium	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total Nickel	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total Zinc	0.0	5.18	5.22	5.0	104	104	0.7
STLC Lead	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SPLP Lead	N/A	N/A	N/A	N/A	N/A	N/A	N/A

% Rec. = (MS - Sample) / amount spiked x 100

RPD = (MS - MSD) / (MS + MSD) x 2 x 100

GeoAnalytical Laboratories, Inc.

1405 Kansas Avenue
Modesto, CA 95351

Phone (209) 572-0900
FAX (209) 572-0916

CERTIFICATE OF ANALYSIS

Report # H162-01
McCampbell Analytical
110 2nd Avenue #D7
Pacheco CA 94553

Date of Report: 06/13/96
Date Received: 06/10/96
Date Started: 06/10/96
Date Completed: 06/13/96

Project Name:

Project # 5840,6470

Sample ID	Lab ID	Detection Limit	Method	Analyte	Results	Units mg/L
CB-1	H10219	1	300	Sulfate	141	
		1	300	Chloride	75	
KB-W30	H10220	1	300	Sulfate	35	
		1	300	Chloride	135	

Ramiro Salgado
Chemist

Certification # 1157

Donna Allsup
Laboratory Director

[redacted]

McCAMPBELL ANALYTICAL

110 2nd AVENUE, # D7
PACHECO, CA 94553
(510) 798-1620 FAX (510) 798-1622

CHAIN OF CUSTODY RECORD

TURN AROUND TIME: ☐ RUSH ☐ 24 HOUR ☐ 48 HOUR ☒ 5 DAY

REPORT TO: B. Hamilton BILL TO: MAZ

COMPANY:

TELE: FAX #:

PROJECT NUMBER: 5840,6470 PROJECT NAME: K/10-2002-64/00

PROJECT LOCATION: SAMPLER SIGNATURE:

SAMPLE ID	LOCATION	SAMPLING DATE	SAMPLING TIME	# CONTAINERS	TYPE CONTAINERS	MATRIX: WATER	SOIL	AIR	SLUDGE	OTHER AI (1:1 extract)	METHOD PRESERVED: HCL	HNO_3	OTHER
CB-1		2/15/96		1	6					X			none
KB-W30		5/28/96		1	6					X			none

SAMPLE ID	BTEX & TPH as Gasoline (602/8020 & 8015)	TPH as Diesel (8015)	Total Petroleum Oil & Grease (5520 E&F/5520 B&F)	Total Petroleum Hydrocarbons (418.1)	EPA 601/8010	EPA 602/8020	EPA 608/8080	EPA 608/8080 - PCBs Only	EPA 624/8240/8260	EPA 625/8270	CAM - 17 Metals	EPA - Priority Pollutant Metals	LEAD (7240/7421/239.2/6010)	ORGANIC LEAD	RCI	SO_4^{-2}, Cl^- 5X IC	OTHER			COMMENTS
CB-1							H10219									X				61573
KB-W30							H10220									X				65424

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:
[signature]	6/7/96		
RELINQUISHED BY:	DATE	TIME	RECEIVED BY:
RELINQUISHED BY:	DATE	TIME	RECEIVED BY LABORATORY:
	6/10/96	8:30	[signature]

REMARKS: RT Intact

KLEINFELDER

5840 AKFX4

PROJ NO	PROJECT NAME	NO OF CONTAINERS	ANALYSIS											
	10-3002-84/002		lead, zinc, tin	8270	8015/8020	pH	6010 M	TPH-d, mo	hold	STLC Zn				
P.O. NO.: B3283	SAMPLERS: (Signature/Number) 1963													
DATE MM DD YY	SAMPLE ID TIME HH MM SS	SAMPLE ID												REMARKS
215 96	0950	K-9-1 96368	1	✓	✓	✓	✓	✓						* ethylene glycol, ~~ethanol~~ amine, diethylene glycol propanol
	0950	K-9-1.5' 96369	1							✓				
	1000	K-8-1 96370	1	✓	✓	✓	✓	✓						
	1000	K-8-1.5 96371	1							✓				
	1000	K-8-2 96375	1							✓				
	1005	K-7-1 96372	1	✓	✓	✓	✓	✓						
	1030	CB-2 1" 96376	2	✓	✓	✓	✓	✓			✓		X	
	1040	K-6-1 96378	1	✓	✓	✓	✓	✓						
	1040	K-6-1.5 96379	1							✓				
	1055	K-5-1 96380	1	✓	✓	✓	✓	✓						
	1055	K-5-2.5' 96381	1							✓				
	1105	CB-2 96382	2	✓	✓	✓	✓	✓						
	1115	K-3-1 96384	1	✓	✓	✓	✓	✓						
	1115	K-3-1.5 96385	1							✓				
	1120	K-4-1.5 96386	1	✓	✓	✓	✓	✓						
	1130	K-2-1 96387	1	✓	✓	✓	✓	✓						
	1130	K-2-2.5 96390	1							✓				
		CB-3 96388	2	✓	✓	✓	✓	✓			✓			
	1150	CB-4 96392	2	✓	✓	✓	✓	✓						
	1235	K-1 96396	8	✓	✓	✓	✓	✓				✓		
	1255	K-10	1		X	X				X				

61507
hold 61508
61509
hold 61510

hold 61511
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61527

Relinquished by: (Signature) — Date/Time 4-15-96 1910 — Received by: (Signature)

Relinquished by: (Signature) — Date/Time — Received by: (Signature) — WQAS | O&G | METALS | OTHER

Relinquished by: (Signature) — Date/Time — Received for Laboratory by: (Signature)

ICE/T ✓ GOOD CONDITION ✓ HEAD SPACE ABSENT ___ PRESERVATIVE ✓ APPROPRIATE ✓ CONTAINERS ✓

Remarks
Standard TAT
*See list faxed for modified analyses
** Zn, Ag, Cl, Ca, Mg, Na, Cu, Fe, Mn in SE extract; Zn in pH=4 extract; Zn in TTLC extract

Send Results To
Kristen Scheller
KLEINFELDER
7133 KOLL CENTER PARKWAY
SUITE 100
PLEASANTON, CA 94566
(510) 484-1700
510 484-5838 FAX

KLEINFELDER

6470 AKFX20

PROJ NO	PROJECT NAME
10-3002-84	McGrath
L P NO / P.O. NO.: R3647	SAMPLERS: (Signature/Number) KBR 3014

Analysis (changed per Keith 5/29/96): ~~Lead~~ Zinc; Ph; Hold; DI TCLP (Add on per A.G. 5/30/96); * DC 6/5/96

DATE MM DD YY	SAMPLE I.D. TIME HH MM SS	SAMPLE I.D.	NO OF CONTAINERS	~~Lead~~ Zinc	Ph		Hold		DI TCLP		* DC		REMARKS	
5-28-96	15:05	KB-W30	1	X	X						X		soil	65424
↓	15:10	KB-W50	1	X	X								soil	65425
	15:15	KB-W75	1	X	X				X				soil	65426
	15:20	KB-W100	1	X	X								soil	65427
	15:21	KW-W100	1	X	X								water	
	15:25	KB-W150	1	(X)	(X)		*	} ~~X~~ OFF Hold			5/29/96		soil	65428
	15:30	KB-W200	1	(X)	(X)		*	}			24 hr		soil	
	15:32	KW-W200	1	X	X								water	* 65429
	15:40	KB-W250	1	(X)	(X)		*	}					soil	* 65430
↓	15:45	KB-W300	1	(X)	(X)		*	}	X				soil	65431
														* 65432
														* 65433

INTACT ✓
PRESERVATIVE ✓
COOL/CHILLED ✓ APPROPRIATE CONTAINERS ✓
HEAD SPACE ABSENT ✓ ← preserved in lab

Relinquished by: (Signature)	Date/Time	Received by: (Signature)
KBR	5/28/96 17:00	Ron Hamilton
Relinquished by: (Signature)	Date/Time	Received by: (Signature)
Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)
Ron Hamilton	5/29/96 17:35	Angela Rydelius

Remarks: 24 hr T.A.T Please

* Zn, SO4, Cl, Ca, Mg, Na, K, Fe, Mn in 1:1 DI extract; Zn in pH-4 extract; Zn w/ TRC extract

Send Results To: Attn: Alan Gibbs
KLEINFELDER
7133 KOLL CENTER PARKWAY
SUITE 100
PLEASANTON, CA 94566
(510) 484-1700

TASK 4
ANALYTICAL RESULTS
Sample Date: June 24, 1996

McCAMPBELL ANALYTICAL INC.
110 2nd Avenue South, #D7, Pacheco, CA 94553
Tele: 510-798-1620 Fax: 510-798-1622

06/30/96

Dear Alan:

Enclosed are:

1). the results of 16 samples from your # 10-3002-84/004; McGrath project,

2). a QC report for the above samples

3). a copy of the chain of custody, and

4). a bill for analytical services.

If you have any questions please contact me. McCampbell Analytical Laboratories strives for excellence in quality, service and cost. Thank you for your business and I look forward to working with you again.

Yours truly,

Edward Hamilton, Lab Director

McCAMPBELL ANALYTICAL INC.
110 2nd Avenue South, #D7, Pacheco, CA 94553
Tele: 510-798-1620 Fax: 510-798-1622

Kleinfelder, Inc. 7133 Koll Center Pkwy, # 100 Pleasanton, CA 94566	Client Project ID: # 10-3002-84/004; McGrath	Date Sampled: 06/24/96
		Date Received: 06/24/96
	Client Contact: Alan Gibbs	Date Extracted: 06/24/96
	Client P.O: R3724	Date Analyzed: 06/24/96

Zinc*

EPA analytical methods 6010/200.7

Lab ID	Client ID	Matrix	Extraction°	Zinc*	% Recovery Surrogate
66246	KF-W30-1,2	S	TTLC	78	94
66247	KS-W30-1,2	S	TTLC	94	97
66248	KF-W45-1,2	S	TTLC	98	85
66249	KS-W45-1,2	S	TTLC	170	92
66250	KF-W60-1,2	S	TTLC	95	95
66251	KS-W60-1,2	S	TTLC	74	95
66252	KF-W15-1,2	S	TTLC	98	95
66253	KS-W15-1,2	S	TTLC	120	96
66254	KF-W75-1,2	S	TTLC	86	94
66255	KS-W75-1,2	S	TTLC	83	96
66256	KF-W85-1,2	S	TTLC	71	95
66257	KS-W85-1,2	S	TTLC	79	97
66258	KF-W105-1,2	S	TTLC	82	93
66259	KS-W105-1,2	S	TTLC	67	94
66260	KF-W125-1,2	S	TTLC	58	94
66261	KS-W125-1,2	S	TTLC	300	95
Reporting Limit unless otherwise stated; ND means not detected above the reporting limit		S	TTLC	4.0 mg/kg	
		W	TTLC	0.05 mg/L	
		—	STLC,TCLP	0.2 mg/L	

* soil and sludge samples are reported in mg/kg, and water samples and all STLC & TCLP extracts in mg/L

° EPA extraction methods 1311(TCLP), 3010/3020(water,TTLC), 3050(solids,TTLC); STLC from CA Title 22

surrogate diluted out of range; N/A means surrogate not applicable to this analysis

& reporting limit raised due matrix interference

i) liquid sample that contains greater than ~ 2 vol. % sediment; this sediment is extracted with the liquid, in accordance with EPA methodologies and can significantly effect reported metal concentrations.

DHS Certification No. 1644

Edward Hamilton, Lab Director

McCAMPBELL ANALYTICAL INC.
110 2nd Avenue South, #D7, Pacheco, CA 94553
Tele: 510-798-1620 Fax: 510-798-1622

QC REPORT FOR AA METALS

Date: 06/24/96 Matrix: Soil

Analyte	Concentration (mg/kg,mg/L) Sample	MS	MSD	Amount Spiked	% Recovery MS	MSD	RPD
Total Lead	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total Cadmium	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total Chromium	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total Nickel	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total Zinc	0.0	4.95	4.92	5.0	99	98	0.7
STLC Lead	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SPLP Lead	N/A	N/A	N/A	N/A	N/A	N/A	N/A

% Rec. = (MS - Sample) / amount spiked x 100

RPD = (MS - MSD) / (MS + MSD) x 2 x 100

KLEINFELDER

ARF124 | 86017

PROJ NO	PROJECT NAME	NO OF CONTAINERS	ANALYSIS
10-3002-84/004	McGrath		Zinc

L P NO / P.O. NO: R3724

SAMPLERS: (Signature/Number) Todd Davis

VOAs [ ] PRESERVATIVE ___ ICE ___ CONDITION ✓ APPROPRIATE HEAD SPACE ABSENT ✓ CONTAINERS ✓

DATE MM DD YY	SAMPLE I D TIME HH MM SS	SAMPLE I D	NO OF CONTAINERS	Zinc	REMARKS	
6/24/96	13:50	KF-W30-1	1	✓	Composite	66246
↓	↓	KF-W30-2	↓	✓		
		KS-W30-1		✓	Composite	66247
	↓	KS-W30-2		✓		
	14:00	KF-W45-1		✓	Composite	66248
	↓	KF-W45-2		✓		
		KS-W45-1		✓	Composite	66249
	↓	KS-W45-2		✓		
	14:30	KF-W60-1		✓	Composite	66250
	↓	KF-W60-2		✓		
		KS-W60-1		✓	Composite	66251
	↓	KS-W60-2		✓		
	14:40	KF-W15-1		✓	Composite	66252
	↓	KF-W15-2		✓		
		KS-W15-1		✓	Composite	66253
	↓	KS-W15-2		✓		
	15:00	KF-W75-1		✓	Composite	66254
	↓	KF-W75-2		✓		
		KS-W75-1		✓	Composite	66255
↓	↓	KS-W75-2	↓	✓		

Relinquished by: (Signature)	Date/Time	Received by: (Signature)
Todd Davis	6/24/96 4:10	Ron Hamilton
Relinquished by: (Signature)	Date/Time	Received by: (Signature)
Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)
Ron Hamilton	6/24/96 5:10P ~~7:30~~	[signature]

Remarks: Tonight Fax to (510) 484-5838 and to (510) 317-1796

Send Results To

KLEINFELDER
7133 KOLL CENTER PARKWAY
SUITE 100
PLEASANTON, CA 94566
(510) 484-1700

M-60 White - Sampler Canary - Return Copy To Shipper Pink - Lab Copy No 864

KLEINFELDER

PROJ NO	PROJECT NAME
10-3002-94/004	McGrath
LP NO / P.O. NO.: R3724	SAMPLERS: (Signature/Number) Todd Dix

DATE MM DD YY	SAMPLE ID TIME HH MM SS	SAMPLE ID	NO OF CONTAINERS	ANALYSIS Zinc	REMARKS
6/24/96	15:20	KFW85-1	1	66256	Composite ~~KFW85~~ Soil
		KFW85-2			
		~~KF2.50~~ KSW85-1		66257	Composite ~~KFW~~
	↓	KSW85-2			
	15:25	KFW105-1		66258	Composite
		KFW105-2			
		KSW105-1		66259	Composite
	↓	KSW105-2			
	15:30	KFW125-1		66260	Composite
		KFW125-2			
		KSW125-1		66261	Composite
	↓	KSW125-2	↓		

VOA [illegible]
PRESERVATIVE
APPROPRIATE
CONTAINERS
HEAD SPACE ABSENT

Relinquished by: (Signature)	Date/Time	Received by: (Signature)
Todd Dix	6/24/96 4:10	Ron Hamilton
Relinquished by: (Signature)	Date/Time	Received by: (Signature)
Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)
Ron Hamilton	6/24/96 5:10	

Remarks: Tonight Fax to (510) 484-5938 and to (510) 317-1796

Send Results To:
KLEINFELDER
7133 KOLL CENTER PARKWAY
SUITE 100
PLEASANTON, CA 94566
(510) 484-1700

M-60 White - Sampler Canary - Return Copy To Shipper Pink - Lab Copy

APPENDIX D
SEWER PERMIT APPLICATION AND ORO LOMA SANITARY DISTRICT PERMIT

ORO LOMA SANITARY DISTRICT
SPECIAL DISCHARGE PERMIT APPLICATION

SECTION 2 SITE INFORMATION

1. **Name and Address of Remediation Site**

Name: McGrath Rent Corp.

Street: 2500 Grant Avenue,

City/State/Zip: San Lorenzo,CA 94580

2. **Discuss the nature of the problem and state the reason(s) why there is no reasonable alternative but to discharge into the wastewater system. (Attach additional pages as necessary).**

Approximately 30,000 gallons of water were generated in industrial cleaning activities. Kleinfelder and McGrath found that on-site treatment was the most cost-effective and lowest liability option of all options considered. This is a one-time project with about a one-week duration.

3. **Site Description**

a) Provide a map showing the location of the site.
b) Provide a diagram showing location of all monitoring wells, treatment unit and connection point to the District sewer system.
c) Provide copies of laboratory analysis of pollutant concentration.

4. **Wastewater Flow Information**

Estimated Discharge Flow Rate	50	(gal/min)
Peak Hourly Flow Rate	100	(gal/min)
Maximum Daily Flow Rate	15	(gal/min)

Estimated Duration of Discharge: one week

ORO LOMA SANITARY DISTRICT
SPECIAL DISCHARGE PERMIT APPLICATION

SECTION 3 TREATMENT SYSTEM INFORMATION

1) **Provide a narrative description of treatment system. Be sure to include the following information. (Use additional sheets if necessary)**

   a) **Describe how the groundwater will be treated: (best available technology is required.**
   b) **Describe the efficiency of the treatment unit.**
   c) **Describe where and how it will connect to the District's sewer system.**
   d) **Emergency procedures/security provisions.**

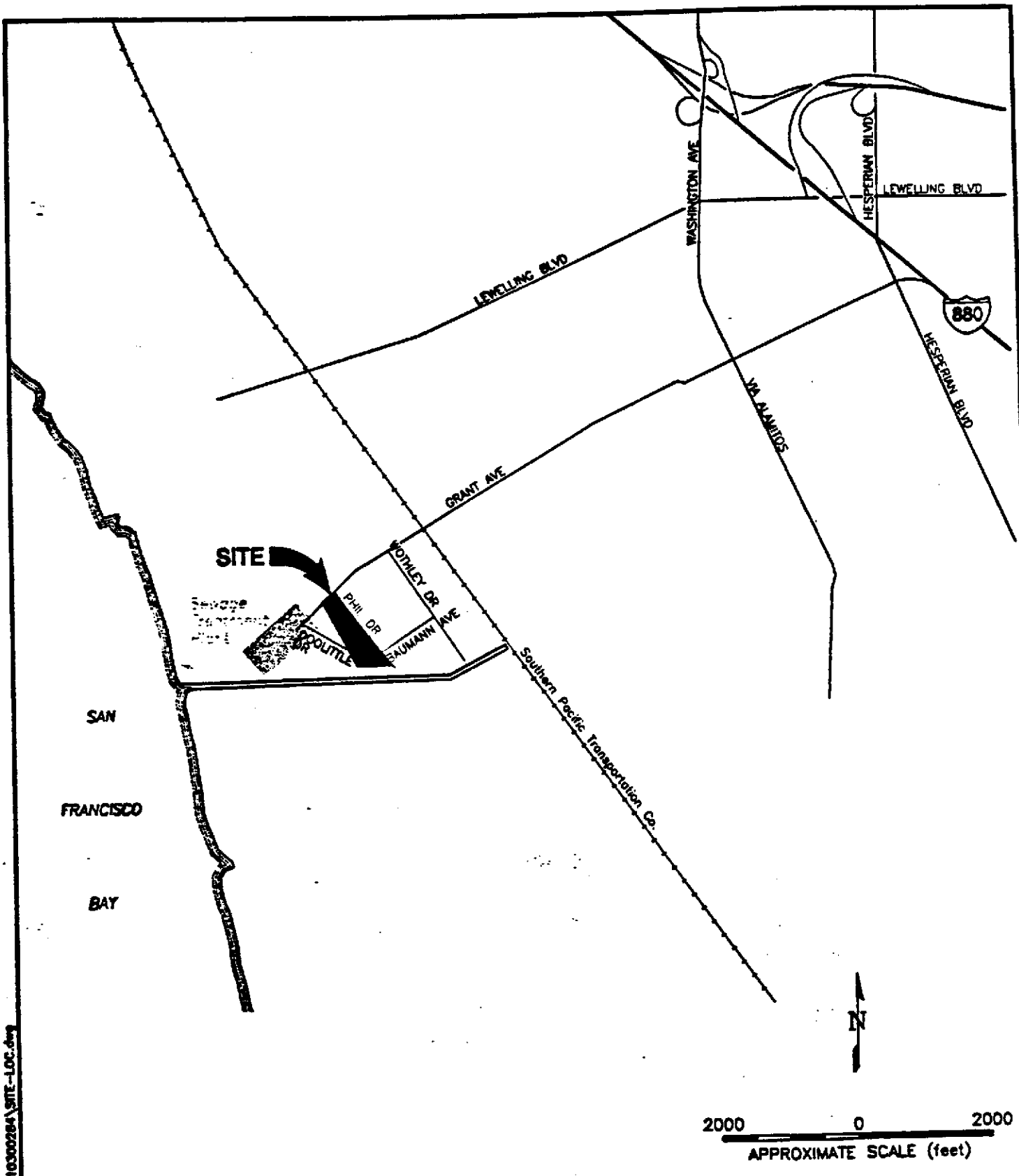
(a) McGrath has contracted with Erickson Inc., an on-site wastewater treatment contractor, to perform the treatment, sampling, analysis, and discharge described below. Groundwater will be treated using a chemical precipitation process to remove soluble zinc below the OLSD limit of 3 mg/L. Water will be filtered using a plate and frame filter press. Filtered water will be treated with granular activated carbon to remove total petroleum hydrocarbons as gasoline (TPH-g); and benzene, toluene, ethylbenzene, and xylenes (BTEX) to the OLSD limit of non-detect. Treated water then will be accumulated into a 20,000 gallon holding tank. Each batch will be sampled, and analyzed for zinc and TPH-g/BTEX using EPA-approved analytical methods. Once compliance with sewer limits is confirmed by analytical results, 20,000 gallon batches will be discharged at an estimated flow rate of 50 - 100 gallons per minute.

(b) The treatment unit described above is generally 80 to 95% effective in zinc removal, and 99.9% effective in removing TPH-g and BTEX constituents. Treatment system performance will be verified by analytical results before batch discharges.

(c) When a batch is ready for discharge, the 20,000 gallon tank will be connected to the sewer system using flexible hose. This project has an estimated duration of one week. The temporary sewer connection will be made at a location to be approved by Susan Keach of OLSD at a field meeting with Kleinfelder on May 15, 1996 at 2:00 p.m. We plan to locate a cleanout or sewer maintenance hole acceptable to OLSD during that field meet.

(d) Emergency provisions: The wastewater treatment contractor is an established hazardous materials emergency response subcontractor. Although they are not contracted for emergency response, their on-site treatment personnel are trained and knowledgeable regarding safe handling practices and operating procedures. The 20,000 gallon accumulation tank will be equipped with a valve so that the discharge can be stopped readily in case of any emergency.

2) **Please attached a detailed drawing of the treatment system.**



KLEINFELDER

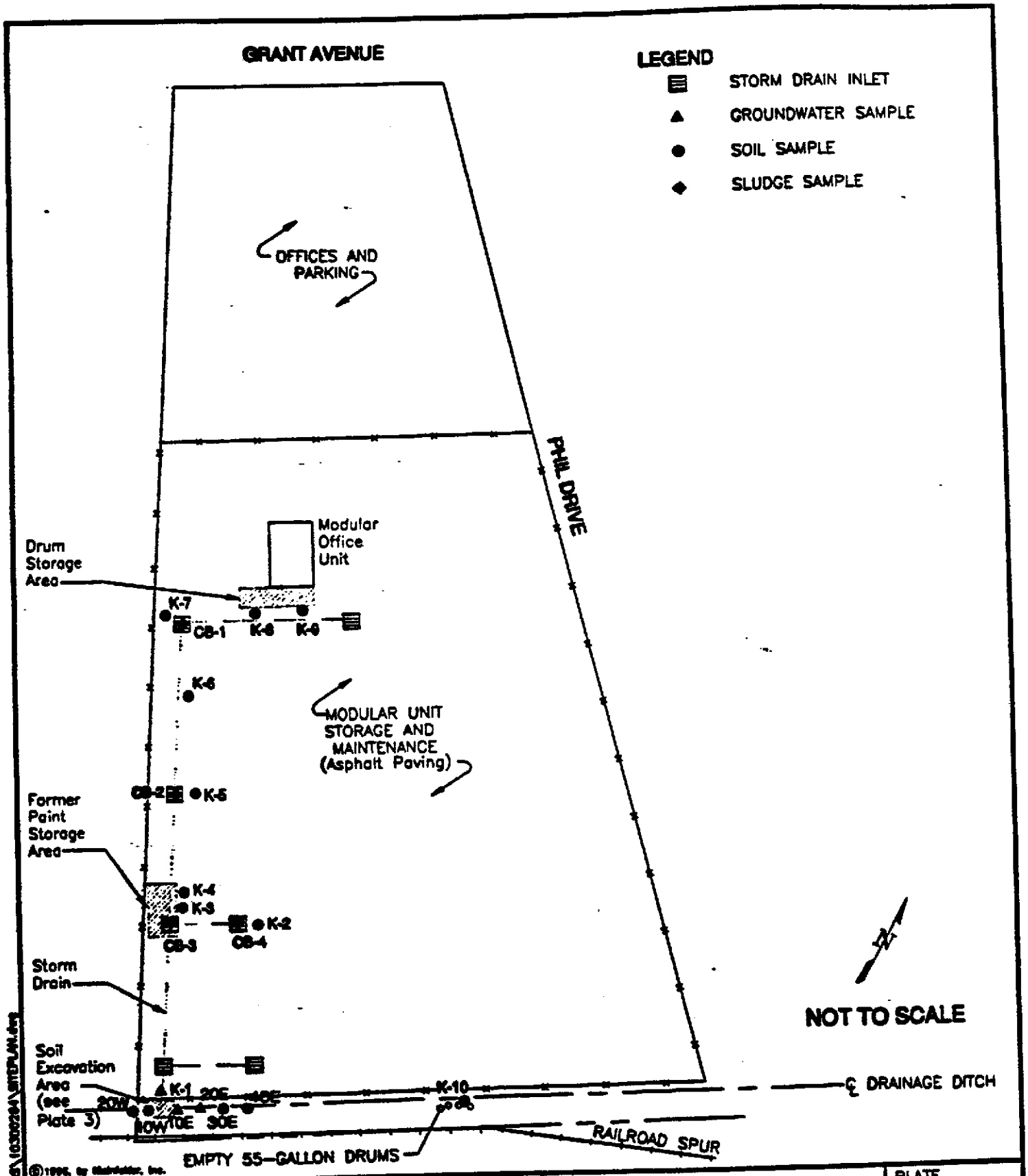
DRAFTED BY: L. Sue DATE: 5-14-96

SITE LOCATION MAP

McGRATH RENT CORP.
2500 GRANT AVENUE
SAN LORENZO, CALIFORNIA

PLATE 1

File: C:\-RA_PROJ\FILES\10300284\SITE-LOC.dwg



KLEINFELDER

DRAFTED BY: L. Sue

DATE: 5-14-96

SITE PLAN

McGRATH RENT CORP.
2500 GRANT AVENUE
SAN LORENZO, CALIFORNIA

PROJECT NO. 10-300284-003

PLATE

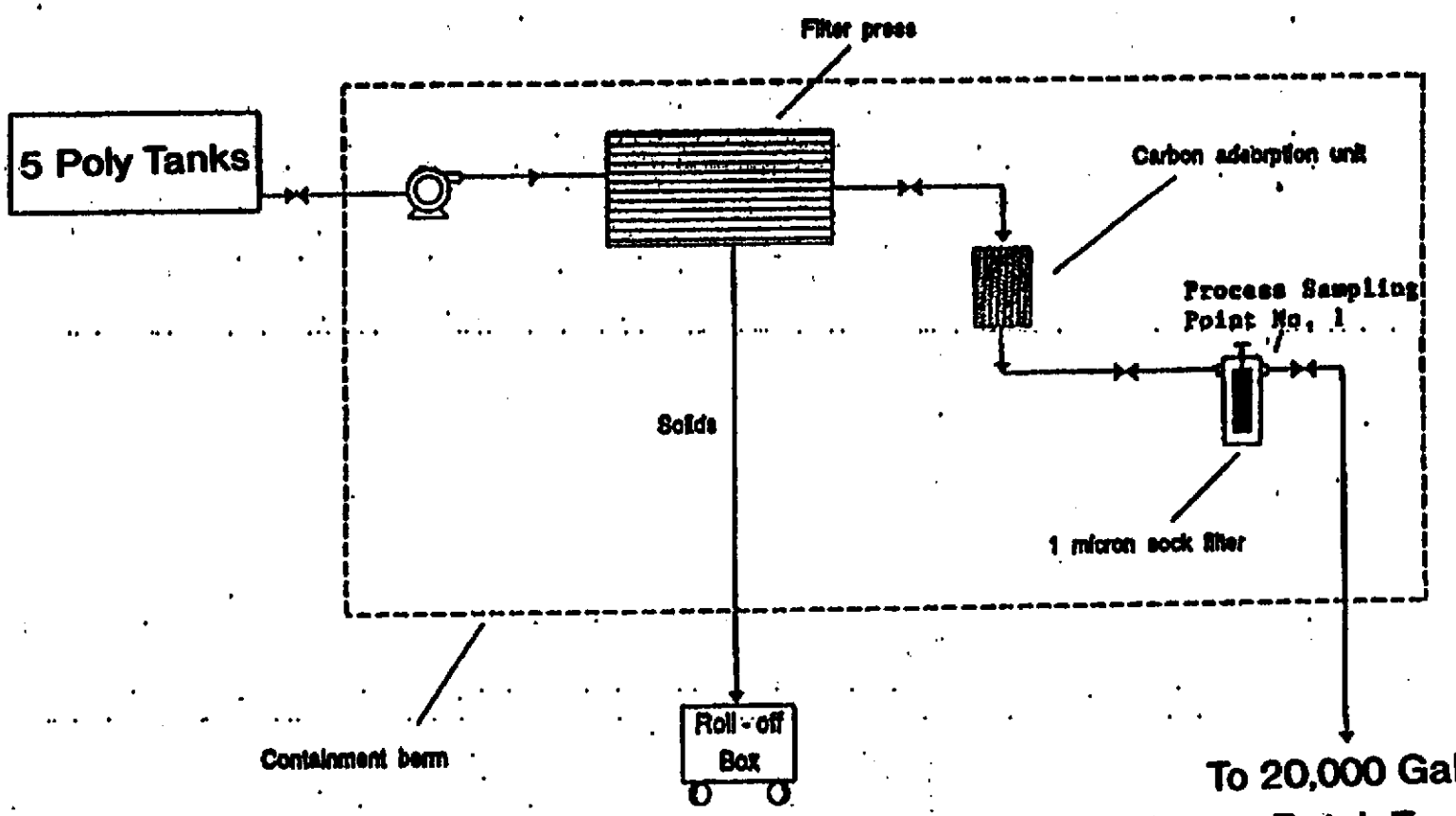
2

FILE G:\--RA_PROJ\FILES\10300284\SITEPLAN.dwg

Table 1
Analytical Results for Rinse Water Samples (Before Treatment)
April 30, 1996
McGrath Rent Corp.

Sample Location	Sample Number	INORGANIC COMPOUNDS										ORGANIC COMPOUNDS						
		Arsenic	Cadmium	Chromium	Copper	Lead	Nickel	Selenium	Silver	Zinc (TTLC)	Zinc (STLC)	Cyanide	Phenols	TPHg	B	T	E	X
Units:	Sludge	--	--	--	--	--	--	--	--	mg/kg	mg/L	--	--	--	--	--	--	--
	Water	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	--	mg/L	mg/L	mg/L	µg/L	µg/L	µg/L	µg/L
Water Tank 1	T1	--	--	--	--	--	--	--	--	31	--	--	--	--	--	--	--	--
Water Tank 2	T2	--	--	--	--	--	--	--	--	11	--	--	--	--	--	--	--	--
Water Tank 3	T3	--	--	--	--	--	--	--	--	9.2	--	--	--	--	--	--	--	--
Water Tank 4	T4	--	--	--	--	--	--	--	--	28	--	--	--	--	--	--	--	--
Water Tank 5	T5	--	--	--	--	--	--	--	--	9.9	--	--	--	--	--	--	--	--
Composite	T1 - T5	<0.005	<0.01	<0.025	0.045	<0.005	0.033	<0.005	<0.01	14	--	<0.02	<0.05	1.3	26	98	45	300
OLSD Discharge Limits		0.8	0.2	2.0	0.5	1.0	1.0	1.0	0.8	3.0	--	1.0	70	NA	ND	ND	ND	ND
TTLC (mg/kg)		500	100	500	2,500	1,000	2,000	100	500	5,000	--							
STLC (mg/L extract)		5	1	5	25	5	20	1	5	--	250							

Notes:
-- = Not analyzed for that constituent or parameter.
Sludge in milligrams per kilogram (mg/kg), similar to parts per million
Water in milligrams per liter (mg/l), similar to parts per million
TTLC - Total threshold limit concentration, California Code of Regulations (CCR) Title 22, Section 66261
STLC - Soluble threshold limit concentration, 22 CCR 66261
<0.01 Where the analyte was not detected, the laboratory reporting limit is shown
T1 - T5 Samples from each of the five tanks were composited for analysis by the laboratory
T6A-T6B / T7A-T7B Two samples of sludge were collected and composited for analysis by the laboratory
TPH - Total petroleum hydrocarbons quantified as gasoline (g).
B, T, E, X - Benzene, Toluene, Ethylbenzene, and Xylenes (gasoline constituents)



Process Flow Diagram Typical Reservoir Filtration System		
SCALE: N/A	APPROVED BY:	BY: DN
DATE: 12/27/95		REVISED:
ERICKSON INC. 255 Parr Blvd., Richmond CA 94801		
PREPARED FOR:		DWG. NO. 1

ORO LOMA SANITARY DISTRICT

2600 GRANT AVENUE
SAN LORENZO, CALIFORNIA 94580
TELEPHONE 510 276-4700
ADMINSTRATION FAX 510 276-1528
PLANT FAX 510 278-7382

May 16, 1996

Mr. Daniel S. Carroll
Kleinfelder
7133 Koll Center Parkway, Suite 100
Pleasanton, CA 94566

Subject: **Special Discharge Permit Application for McGrath Rent Corp. Project., 2500 Grant Avenue, San Lorenzo, CA**

Dear Mr. Carroll:

Your application for a Special Discharge Permit for the site referenced above is approved subject to the conditions listed below:

1. Compliance with all the permit conditions outlined in the Special Discharge Permit No. 028 (attached). This permit is divided into five parts. (Parts 1-4 are General Conditions that apply to all dischargers. Part 5 are Special Conditions that apply specifically to the site referenced above.

2. Compliance with all conditions described in the Sewer User Ordinance No 39-6. (Copy attached)

3. Payment of the permit fee of $420.00 and flow discharges of $59.10. (Invoice attached.)

Please don't hesitate to call us at (510) 276-4700 extension 149, with any questions or concerns.

Sincerely,

Edward A. Heuer
Director of Water Quality Services

Susan M. Keach

Susan Keach
Industrial Waste Inspector
EH:SK:LR

F:\GROUPS\OPS\SUSAN\mcgrath.per\lr

ORO LOMA SANITARY DISTRICT

WASTEWATER DISCHARGE PERMIT

COMPANY NAME Mc Grath Rent Corp

MAILING ADDRESS 2500 Grant Avenue

San Lorenzo, CA 94580

FACILITY ADDRESS: Same

The above named company is authorized to discharge wastewater to the Oro Loma Sanitary District sewerage system subject to compliance with the District's Ordinance No. 39 (as amended) titled:

> *"AN ORDINANCE REGULATING THE USE OF PUBLIC AND PRIVATE SEWERS AND DRAINS. REGULATING THE DISCHARGE OF WATERS AND WASTE INTO THE PUBLIC SEWER SYSTEM. PROVIDING FOR WASTEWATER DISCHARGE PERMITS AND FIXING PERMIT AND MONITORING FEES, AND PROVIDING FOR LIABILITIES AND PENALTIES FOR THE VIOLATION OF THE PROVISIONS THEREOF."*

and subject to compliance with any Federal or State regulations that apply, all permit conditions set forth in this permit, and payment, of fees and charges when billed.

This permit is granted in accordance with the application filed on May 15, 1996, in the office of the Oro Loma Sanitary District and in conformity with specifications and information submitted to the District in support of the above referenced application.

PERMIT NO: 028

EFFECTIVE DATE: May 20, 1996

EXPIRATION DATE: May 19, 1997

APPROVED _____
GENERAL MANAGER

5/22/1996
DATE

F:\GROUPS\OPS\PERMIT\McGrath.PER/LR

PERMIT CONDITIONS

PART I
GENERAL

1. ***DEFINITION***. See Section 1.2 Ordinance No. 39-6 attached.

2. ***GENERAL*** The user shall comply with all the general prohibitive discharge standards in Article II: Regulations of Ordinance No. 39-6.

3. ***RIGHT OF ENTRY*** Ready and immediate access to the facility, the pretreatment area and the sampling points shall be provided to District personnel at all times.

4. ***RECORDS RETENTION***. The user shall retain and preserve for no less than three (3) years any records, books, documents, memoranda, reports, correspondence and any and all summaries thereof, relating to monitoring, sampling and chemical analyses made by, or on behalf of the User in connection with its discharge. Records shall be made available for inspection and copying by representatives of the District, the California Regional Water Quality Control Board or the environmental Protection Agency. All records that pertain to matters that are the subject of special orders or any other enforcement or litigation activities brought by the District shall be retained and preserved by the User until all enforcement activities have concluded and all periods of limitation with respect to any and all appeals have expired.

5. ***CONFIDENTIAL INFORMATION*** Except for data determined to be confidential under the provisions of Ordinance No. 39-6, all reports required by this permit shall be available for public inspection at the District Office, 2600 Grant Avenue, San Lorenzo, California 94580.

6. ***TIME SCHEDULES***. Time schedules for achieving compliance which are required through a notice of violation, administrative or judicial order, or any other written correspondence from the District are deemed to be a condition of the permit.

7. ***SIGNATORY REQUIREMENT***. All reports required by this permit shall be signed by an authorized representative of the permittee or his designee, as defined in Ordinance No. 39-6.

8. ***REVOCATION OF PERMIT***. The permit issued to the user by the District may be revoked when, after inspection, monitoring or analysis, it is determined that the discharge of wastewater to the sanitary sewer is in violation of Federal, State or local laws, ordinances, or regulations. Additionally, falsification or intentional misrepresentation of data or statements pertaining to the permit application or any other required reporting form shall be cause for permit revocation.

9. ***LIMITATION OF PERMIT TRANSFER***. Wastewater discharge permits are issued to a specific user for a specific operation and are not assignable to another user or transferable to any other location without the prior written approval of the District. Sale by a User shall obligate the purchaser to seek prior written approval of the District for continued discharge to the sewerage system and issuance of new permit.

PART I

GENERAL

10. ***FALSIFYING INFORMATION OR TAMPERING WITH MONITORING EQUIPMENT.*** Knowingly making any false statement on any report or other document required by this permit, or knowingly rendering any monitoring device or method inaccurate may result in punishment in accordance with District Ordinance 39-6 or other applicable laws.

11. ***MODIFICATION OR REVISION OF THE PERMIT.*** The terms and conditions of this permit may be subject to modification by the District at any time as limitations or requirements as identified in the District Ordinance No. 39-6 are modified, or if other just cause exists.

This permit may also be modified to incorporate special conditions resulting from the issuance of a special order by an agency which regulates the District's discharge.

The terms and conditions may be modified as a result of Environmental Protection Agency promulgating a new federal pretreatment standard.

Any permit modifications which result in new conditions in the permit shall include a reasonable time schedule for compliance, if necessary.

12. ***DUTY TO REAPPLY*** Within thirty (30) days of the notification, the user shall reapply for reissuance of the permit on a form provided by the District.

13. ***SEVERABILITY*** The provisions of this permit are severable, and if any provision of this permit, or the application of any provision of this permit to any circumstance, is held invalid, the application of such provisions to other circumstances and the remainder of this permit shall not be affected thereby.

14. ***PROPERTY RIGHTS*** The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any invasion of personal rights, nor any infringement of Federal, State or Local regulations.

15 ***PERMIT DURATION*** The wastewater discharge permit will remain in effect for one year from the effective date of the permit. Users who are issued a wastewater discharge permit or renew a wastewater discharge permit shall pay the permit fee set forth in the current schedule of fees as adopted in the most current amendment to Ordinance No. 39-6.

PART 2
DISCHARGE REQUIREMENTS

1. *Maintenance of Pretreatment Equipment and Monitoring Systems*

   a. The waste treatment system shall be kept in a fully operational condition at all times. This includes maintaining adequate chemical supplies for treating wastewater, proper calibrations of all instrumentation (pH meters, etc.) and proper removal of sludges and unacceptable wastes. A qualified operator of the system shall be available to maintain the pretreatment system during all discharge periods.

   b. The District shall be notified immediately if there are problems with the pretreatment system. Any proposed modifications to the system or the processes for pretreating the wastewater must be reviewed and approved by the District's Source Control Staff prior to implementation.

2. *Discharge Limitations.*

   a. The wastewater discharge shall not contain constituents in excess of the following limits, and compliance with these units shall be demonstated at the sampling location specified in Part 3 of this Permit.

Parameter	Symbol	Limit for any one Sample
Arsenic	As	0.8 mg/L
Cadmium	Cd	0.2 mg/L
Copper	Cu	0.5 mg/L
Cyanide	Cn	1.0 mg/L
Lead	Pb	1.0 mg/L
Mercury	Hg	0.01 mg/L
Nickel	Ni	1.0 mg/L
Selenium	Se	1.0 mg/L
Silver	Ag	0.8 mg/L
Total Chromium	Cr	2.0 mg/L
Zinc	Zn	3.0 mg/L
T.I.C.H.*		0.02 mg/L
Phenolic compounds		70 mg/L
Oil and Grease (Mineral)		100 mg/L
Oil and Grease (Animal/Vegetable)		300 mg/L
pH		No lower than 5.5 units
Temperature		No higher than 150° F

*(T.I.C.H.: Total Identifiable Chlorinated Hydrocarbons)

PART 2
DISCHARGE REQUIREMENTS

b) The permittee shall comply with all limits, prohibitions and requirements set forth in this permit and in Ordinance 39-6. Wastewater strength limits for constituents not listed above may be established based upon available treatment technology, existing wastewater conditions in the District's facilities or other factors as determined by the District.

c) Should Federal Categorical Standards for a particular industrial category be more stringent than the limits set forth in this permit or ordinance, the more stringent Federal limits shall apply.

3. ***DILUTION OR BYPASSING*** No user shall increase the use of potable or process water or, in any way, attempt to dilute a discharge as a partial or complete substitute for adequate treatment to achieve compliance with the limitations contained in this permit. User shall not divert their wastestreams from the pretreatment systems.

4. ***PROPER DISPOSAL OF PRETREATMENT SLUDGES AND SPENT CHEMICALS*** The disposal of sludges and spent chemicals generated shall be done in accordance with all applicable State and Federal regulations. Copies of all Hazardous Wastes Manifests shall be maintained as part of the Records Retention Requirement Section 4.8 of Ordinance 39-6.

PART 3
REPORTING REQUIREMENTS

1. ***NOTICE TO EMPLOYEES*** In order that employees of user be informed of District requirements, users shall make available to their employees, copies of the Districts Discharge Regulations together with other wastewater information and notices which may be furnished by the District. User shall permanently post a notice advising employees whom to call in case of spill or accidental discharge. This notice shall be posted in a prominent place.

2. ***ACCIDENTIAL SPILL OR SLUG DISCHARGE*** The user shall notify the District immediately upon any accidental or slug discharge to the sanitary sewers as outlined in ***Ordinance No. 39-6 Section 2.12***. Formal written notification discussing circumstances and remedies shall be submitted to the District within five days of the occurrence. The user shall work with the District to resolve any problems caused by such accidental or slug discharge. The District will evaluate the need for a spill prevention plan for all significant industrial users no less than once every two years. Should the District determine there is a need for spill prevention plan, the industrial user will be notified and required to submit such a plan to the District.

3. ***NOTIFICATION OF CHANGED DISCHARGE.*** The user shall promptly notify the District of any changes (permanent or temporary) to the premises, operation of the firm, quality or volume of wastewater, water usage, process, installation or removal of tanks or equipment prior to implementation.

4. ***NOTIFICATION OF UPSET.*** Any upset experienced by the user of any of its treatment processes that places the user in a temporary state of noncompliance with the wastewater discharge limitations contained in this permit or other limitations specified in the District's Ordinance shall be reported to the District within 24 hours of first awareness of the commencement of the upset. A detailed report shall be filed with the District within five days of the start of the upset.

5. ***PERIODIC REPORTS OF COMPLIANCE*** As required by 40 CFR 403.12, all significant industrial users, both categorical and non-categorical, must submit periodic reports of continued compliance to the District. These reports are due by ***June 30 and December 31*** of each year. The content and format of these reports must be in compliance with EPA and District requirements.

PART 3

REPORTING REQUIREMENTS

6 (A) SELF MONITORING: GENERAL REQUIREMENTS

In addition to self monitoring required elsewhere in this permit, the following conditions must be met:

1. All samples and measurements must be representative of the wastestream and taken under normal discharging conditions when monitored pollutants are likely to be present. Samples collected to determine compliance with Federal point Source Wastewater Discharge limitations must be taken immediately downstream from the pretreatment facilities. If no pretreatment is performed the samples must be taken immediately downstream from the regulated process, before the process wastewater combines with sanitary or other diluting waterstreams (non-contact cooling water, boiler blowdown, etc.).

2. Sampling performed for periodic reports of continued compliance must be collected, processed, stored, analyzed and reported in compliance with EPA and District requirements.

3. All monitoring information and records must be retained for at least three years from the date of the sample, measurement, or report. This information must be made available for inspection and copying by District personnel or a District authorized representative upon request.

4. If self monitoring indicates a violation, the permittee must notify the District within 24 hours of becoming aware of the violation and must resample immediately. The results of the resample must be submitted to the District within 30 days after becoming aware of the violation. (40 CFR 403.12(g)(2)

5. Self monitoring required through a Notice of Violation, Administrative Order, or any other written correspondence from the District is deemed to be a condition of this permit.

6. If any pollutant is monitored more frequently than required by the District or Federal regulation, the results of this additional sampling must also be included in the Periodic Reports of Continued Compliance.

PART 3
REPORTING REQUIREMENTS

7. *HAZARDOUS MATERIALS NOTIFICATION*

a. The permittee shall notify the District, the E.P.A., Regional Waste Management Division Director and the California Department of Health Services in writing, of any intentional or accidental discharge of a RCRA characteristic or listed hazardous waste or material. Notification must be made within 180 days after the discharge, and must include the name and E.P.A. hazardous waste number of the material, the type of discharge, (continuous, batch or other), an identification of the hazardous constituents of the waste, an estimate of the mass and concentration in the wastestream discharge during that calendar month.

b. The Notification Requirement does not apply to pollutants already reported in periodic self-monitoring reports.

PART 4

PENALTIES AND FEES

1. ***SIGNIFICANT NON-COMPLIANCE*** Should the District determine that the permittee is in significant non-compliance with applicable pretreatment requirements, the District will list the facility in the ***Pubic Notice of Significant Wastewater Violations*** in the largest daily newspaper in the area. This list will be published annually, but may be published more frequently at the discretion of the District.

   An industrial user is in significant non-compliance if one or more of the following violations occurs:

   a. Chronic violations of wastewater discharge limits, defined as those in which 66 percent or more of all of the measurements taken during a six month period exceed (by any magnitude) the daily maximum limit or the average limit for the same pollutant parameter.

   b. Technical Review Criteria (TRC) violations, defined as those in which 33 percent or more of all of the measurements for each pollutant parameter taken during a six month period equal or exceed the product of the daily maximum limit or the average limit multiplied by the applicable TRC (TRC=1.4 for BOD, TSS, fats, oil, and grease, and 1.2 for all other pollutants except pH.)

   c. Any other violation of a pretreatment effluent limit (daily maximum or longer-term average) that the District determines has caused, alone or in combination with other discharges, interference or pass through (including endangering the health of District personnel or the general public).

   d. Any discharge of a pollutant that has caused imminent endangerment to human health, welfare or to the environment or has resulted in the District's exercise of its emergency authority to halt or prevent such a discharge.

   e. Failure to meet, within 90 days after the schedule date, a compliance schedule milestone contained in a permit or enforcement order for starting construction, completing construction, or attaining final compliance.

   f. Failure to provide, within 30 days after the due date, required reports such as baseline monitoring reports, 90 day compliance reports, periodic self monitoring reports, and reports on compliance with compliance schedules.

   g. Failure to accurately report non-compliance.

   h. Any other violation deemed significant by the District.

PART 4
PENALTIES AND FEES

2. ***CIVIL AND CRIMINAL LIABILITY*** Any person who violates any requirements or conditions of this permit, Ordinance 39-6, an order of the District, or violates any cease and desist order, prohibition, effluent limitation, National Standard of Performance, pretreatment or toxicity standard shall be liable civilly for a penalty not to exceed $25,000.00 for each day in which such violation occurs or continues. In addition to penalties, the District may recover reasonable attorney's fees and other expenses of litigation.

   Any person who commits such violations is guilty of a misdemeanor and upon conviction is subject to criminal penalties of not more than $25,000.00 and or imprisonment for not more than 30 days in the county jail.

   Nothing in this permit relieves the permittee from civil and or criminal penalties for non-compliance under state or federal laws or regulations.

3. ***WASTEWATER CHARGES AND FEES.*** The User shall pay to the District all sewer service charges, permit fees, monitoring charges and laboratory analysis charges levied in accordance with current District Ordinances. All charges are due and payable upon receipt of statement of charges. Failure to pay fees within 30 days may result in revocation of wastewater discharge permit and termination of service. Overdue fees shall be assessed a 10 percent penalty plus interest of 1.5 percent per month until fees have been paid.

PART 5

SPECIAL CONDITIONS - GROUNDWATER DISCHARGES

1. GENERAL The permittee shall provide easily accessible sampling points for both pre and post-treatment samples. The District reserves the right to sample at will for any constituents deemed necessary on water samples collected from either pre or post-treatment locations.

   There shall be no bypassing of any treatment process or unit or direct discharge into the sewer system at any time.

   The permittee assumes full responsibility for any and all damages including but not limited to the District property and equipment, the collection system and the Oro Loma/Castro Valley Treatment Plant.

2. PRE-PUMPING AND EMERGENCY NOTIFICATION The permittee shall notify the District's Industrial Waste Inspector at 276-4700 extension 149 no less than twenty-four(24) hours prior to commencement of any pumping activity and request an inspection of the site. No pumping shall occur until District staff have inspected the site, piping, pumping set-up, metering and discharge points.

   In the event of any explosive condition or other potentially harmful situation which may affect either the collection system or the P.O.T.W., the permittee shall contact the District's Industrial Waste Inspector at 276-4700 immediately (operators are on duty 24 hours per day).

   The Fire Department shall be notified of the clean-up operation.

   If air stripping is part of the treatment process, the Bay Area Air Quality Control Board shall be notified of the process. If a permit is issued by the Air Board, a copy of that permit and subsequent extensions shall be submitted to the District.

3(A) PRE-DISCHARGE SAMPLING: Discharge to the District's sanitary sewer system will be authorized only after compliance with the discharge standards listed in 3(B) can be demonstrated.

   Pre-discharge sampling shall be performed as follows: the water shall be pumped through the treatment system described in the permit application. The effluent shall then be pumped back into holding tanks.

   Each batch shall be sampled and analyzed for zinc, TPH (g), and BTEX.

   Further processing and discharge of the water will be allowed only after laboratory analysis demonstrates compliance with all discharge limits set forth in this permit.

PART 5
Special Discharge - Groundwater Discharges

3(B) *Sampling Requirements*

Parameter	***O.I.S.D. Limit***
Metals	
Arsenic	0.8 mg/L
Cadmium	0.2 mg/L
Copper	0.5 mg/L
Lead	1.0 mg/L
Mercury	0.01 mg/L
Nickel	1.0 mg/L
Selenium	1.0 mg/L
Silver	0.8 mg/L
Total Chromium	2.0 mg/l
Zinc	3.0 mg/L
Additional Testing	
Total Petroleum Hydrocarbons (EPA 8015)	15 mg/L
B.T.E.X. (EPA 8020)	Non-detectable
Phenols	70 mg/L
Cyanide	1.0 mg/L
General Analysis	
COD	N/A
Suspended Solids	N/A
pH	No lower than 5.5 units

PART 5
Special Discharge - Groundwater Discharges

4. **FLOW RATE** The treated water shall be discharged at a rate not to exceed one tenth (1/10) of the capacity of the public sewer into which it drains.

5 **POINT OF DISCHARGE** The point of discharge to the District's sanitary sewer shall be established prior to discharge. The point of discharge may not be changed without prior authorization from the District. (See Attachment "A" Designated Point of Discharge)

6. **DISCHARGE ACTIVITIES** Permittee shall perform pumping activity in compliance with all applicable health and safety, OSHA and traffic control regulations.

7 **INDEMNIFICATION** Permittee indemnifies the District for any claims for damages to personal or private property or injuries incurred by individuals not employed by the District, arising out of, or in connection with the pumping activity authorized by this letter.

8. **METERING** The permittee must report the total volume of water discharged to the sanitary sewer. A meter with a non-resettable totalizer may be used for this purpose. The District may accept an estimate of the total volume to be discharge if provided with the calculations and description of how the estimate was determined.

The calculation must be approved prior to discharge. The District reserves the right to require metering in the event the estimate is not deemed acceptable.

9. **BILLING AND PERMIT EXTENSIONS** The permittee shall pay all District fees for sampling, monitoring inspections, loading charges, as well as any other related District expenses billed prior to the expiration of this permit.

The District will not consider an extension of this permit until all fees and reimbursable costs have been paid to the permittee.

10 **FEES** An annual permit fee of $ 420 is charged with the issuance and any subsequent renewals of this discharge permit.

Sewer service and use charges will be $1.97 per thousand gallons of water discharged.

APPENDIX E
DISPOSAL DOCUMENTATION

ERICKSON
255 Parr Boulevard, Richmond, California 94801
(510) 235-1393 • FAX (510) 235-3709

№ 3348

NON-HAZARDOUS WASTE DATA FORM

TO BE COMPLETED BY GENERATOR

NAME McGRATH RENT CORP. EPA I.D. NO.

ADDRESS 2500 GRANT AVE.

CITY, STATE, ZIP SAN LORENZO, CA 94580 PHONE NO. (510) 276-2626

CONTAINERS: No. 2 VOLUME 30yds WEIGHT

TYPE: ☐ TANK TRUCK ☐ DUMP TRUCK ☐ DRUMS ☐ CARTONS ☑ OTHER ROLL OFF

WASTE DESCRIPTION LOW HAZARDOUS SOIL GENERATING PROCESS

COMPONENTS OF WASTE	PPM	%	COMPONENTS OF WASTE	PPM	%
1.			5.		
2.			6.		
3.			7.		
4.			8.		

PROPERTIES: pH ____ ☑ SOLID ☐ LIQUID ☐ SLUDGE ☐ SLURRY ☐ OTHER

HANDLING INSTRUCTIONS

THE GENERATOR CERTIFIES THAT THE WASTE AS DESCRIBED IS 100% NON-HAZARDOUS.

Roxanne Barnett — TYPED OR PRINTED FULL NAME & SIGNATURE — DATE

TRANSPORTER

NAME ERICKSON INC. EPA I.D. NO. CAD009476639

ADDRESS 255 PARR BLVD. SERVICE ORDER NO. 968545

CITY, STATE, ZIP Richmond, CA. 94801 PICK UP DATE 6-24-96

PHONE NO. 510 235-1393

STANLEY D. WILES — TYPED OR PRINTED FULL NAME & SIGNATURE — DATE 6/24/96

TRUCK, UNIT, I.D. NO. TR03

TSD FACILITY

NAME REDWOOD LANDFILL INC. EPA I.D. NO.

ADDRESS 8950 REDWOOD HWY DISPOSAL METHOD

CITY, STATE, ZIP NOVATO, CA. 94948 ☐ LANDFILL ☐ OTHER

PHONE NO. 415 892-2851

TYPED OR PRINTED FULL NAME & SIGNATURE — DATE

GEN	OLD/NEW	L A	TONS	
TRANS		S B		
C/O		RT/CD	HWDF NONE	DISCREPANCY

2281

NON-HAZARDOUS WASTE DATA FORM

TO BE COMPLETED BY GENERATOR

NAME McGrath Rent Corp
EPA I.D. NO. NA
ADDRESS 2550 Grant Ave.
CITY, STATE, ZIP San Lorenzo, CA
PHONE NO. 510 276-2626
CONTAINERS: No. ONE VOLUME 3,500 GAL. WEIGHT
TYPE: ☐ TANK TRUCK ☐ DUMP TRUCK ☐ DRUMS ☐ CARTONS ☑ OTHER Vacuum Trucks
WASTE DESCRIPTION Water
GENERATING PROCESS Cleanout of Storm Drain

COMPONENTS OF WASTE	PPM	%	COMPONENTS OF WASTE	PPM	%
1. Water		100	5.		
2.			6.		
3.			7.		
4.			8.		

PROPERTIES: pH 6-10 ☐ SOLID ☑ LIQUID ☐ SLUDGE ☐ SLURRY ☐ OTHER
HANDLING INSTUCTIONS:

THE GENERATOR CERTIFIES THAT THE WASTE AS DESCRIBED IS 100% NON-HAZARDOUS.

Todd Davis Todd Davis 6/20/96
TYPED OR PRINTED FULL NAME & SIGNATURE DATE

TRANSPORTER

NAME Erickson, Inc.
EPA I.D. NO. CAD010141663912
ADDRESS 255 Parr Blvd.
SERVICE ORDER NO. 96R518
CITY, STATE, ZIP Richmond, CA 94801
PICK UP DATE 6-20-96
PHONE NO. 510 235-1393
TRUCK, UNIT, I.D. NO. 1027/2E37
ROBERT CAUFFA Robert Cauffa 6/20/96
TYPED OR PRINTED FULL NAME & SIGNATURE DATE

TSD FACILITY

NAME Evergreen Oil
EPA I.D. NO. CAD980887411
ADDRESS 6880 Smith Ave
DISPOSAL METHOD ☐ LANDFILL ☑ OTHER
CITY, STATE, ZIP Newark, CA 94560
PHONE NO. 1-800-972-5284

TYPED OR PRINTED FULL NAME & SIGNATURE DATE

GEN	OLD/NEW	L A	TONS	
TRANS		S B		
C/O		RT/CD	HWDF NONE	DISCREPANCY