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2 June 2003

Mr. Barney M. Chan
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Alameda County Health Care Services Agency
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Subject: Soil Remediation and Additional Subsurface Characterization Report,
901 Embarcadero, Oakland, California
K/J 000128.00

Dear Mr. Chan:

The enclosed Soil Remediation and Additional Characterization Report (Report) is submitted by Kennedy/Jenks Consultants on behalf of Praxair, Inc. (Praxair). The Report documents the methodology and results of additional subsurface characterization and soil excavation activities recently performed at 901 Embarcadero in Oakland (the Site). These activities were performed in accordance with the Work Plan for Soil Remediation and Additional Characterization which was approved by the Alameda County Health Care Services Agency in November 2002.

If you have any questions regarding the Report, please call either Nick DiFranco of Praxair at (732) 738-3424 or me at (415) 243-2534.

Very truly yours,

KENNEDY/JENKS CONSULTANTS

Meredith G. Durant

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Enclosure

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Soil Excavation and Additional Characterization at 901 Embarcadero, Oakland, California

2 June 2003

Prepared for

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P.O. Box 237
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K/J Project No. 000128.00

Table of Contents

List of Tables ..... *iii*

List of Figures ..... *iii*

List of Appendices ..... *iii*

Section 1: Introduction and Background 1

1.1 Site Description 1
1.2 Summary of Site History 1
1.3 Previous Subsurface Investigations and Remediation 2
1.4 Operations Removal and Dismantling 3
1.5 Purpose 3

Section 2: Subsurface Investigation Activities 4

2.1 Permitting and Utility Clearance 4
2.2 Drilling and Reconnaissance Groundwater Sampling 4
2.2.1 Procedures 4
2.2.2 Soil Sample Collection 5
2.2.3 Reconnaissance Groundwater Sample Collection 5
2.3 Sample Analysis 5
2.3.1 Soil Sample Analysis 5
2.3.2 Reconnaissance Groundwater Sample Analysis 6
2.4 Quality Assurance/Quality Control (QA/QC) 6
2.4.1 Field QA/QC 6
2.4.2 Laboratory QA/QC 6
2.5 Management of Investigation-Derived Residuals 7

Section 3: Results of Subsurface Investigation Activities 8

3.1 Soil Samples 8
3.1.1 Acetone 8
3.1.2 Total Petroleum Hydrocarbons 8
3.1.3 Mercury 8
3.2 Groundwater Samples 9
3.2.1 Total Petroleum Hydrocarbons 9
3.2.2 Metals 9

Section 4: Soil Excavation Activities 11

4.1 General Description of Activities 11
4.1.1 Field Preparation Activities 11
4.1.2 Excavation Activities 11
4.1.3 Collection and Analysis of Soil Samples 11
4.1.4 Soil Stockpiles 12

List of Tables

1 Sampling and Analysis Plan
2 Soil Sample Analytical Results – Organic Compounds
3 Mercury Concentrations in Soil Samples near Boring KB-11
4 Groundwater Sample Analytical Results – Extractable Petroleum Hydrocarbons
5 Groundwater Sample Analytical Results – Dissolved Metals
6 Post Excavation Confirmation Soil Samples – Extractable Petroleum Hydrocarbons and pH in Vicinity of Boring KB-7
7 Post Excavation Confirmation Soil Samples – Metals in Vicinity of Boring KB-7
8 Post Excavation Confirmation Soil Samples – Vicinity of Boring KB-11
9 Post Excavation Confirmation Soil Samples – Extractable Petroleum Hydrocarbons in Vicinity of Boring KB-13
10 Post Excavation Confirmation Soil Samples – Metals in Vicinity of Boring KB-13

List of Figures

1 Site Location Map
2 Soil and Groundwater Sampling Locations
3 Soil Samples in the Boring KB-11 Area
4 Soil and Groundwater Samples in the Boring KB-13 Area
5 Soil Excavation Areas and Confirmation Sampling Locations

List of Appendices

A Soil Boring Logs and Drilling Permit
B Analytical Data Reports and Chain of Custody Forms – Additional Characterization
C Photographs
D Analytical Data Reports and Chain of Custody Forms – Soil Excavation
E Residuals Management Documentation

Section 1: Introduction and Background

This Soil Remediation and Additional Characterization Report (Report) is submitted to the Alameda County Health Care Services Agency (County) by Praxair, Inc. The Report was prepared by Kennedy/Jenks Consultants on behalf of Praxair, Inc. This Report describes the activities and analytical results for an additional subsurface investigation performed at 901 Embarcadero in Oakland, California (the Site). This Report also describes the activities and analytical results for excavation of shallow soil in three areas of the Site. The location of the Site is shown on Figure 1.

1.1 Site Description

The Site is located within an industrial area of Oakland that was historically and is currently used for mixed commercial, industrial manufacturing, warehousing, and shipping. The Site is located in an area of level topography with an elevation of approximately 10 feet above mean sea level. The Site is located adjacent to the south side of the Embarcadero, a major surface street/truck route. Immediately north of the Embarcadero is US Highway 880 and the Union Pacific railroad tracks. The estuary (Inner Harbor) between Oakland and Alameda Island is approximately 300 feet south of the Site.

The Site is approximately 7.7 acres in size. Ground level at the Site is somewhat elevated relative to surrounding roadways. Based both upon the observed elevation differences and review of Sanborn Maps, fill material was used to create the Site. The Site is owned by the Port of Oakland (the Port).

Praxair is the successor to the former Liquid Carbonic Corporation, which in approximately 1954-1955, entered into a 50-year lease of the Site with the Port. In 1998, Praxair subleased the Site to Alliance Gas Products, a subsidiary of International Gas & Cryogenics. Alliance Gas Products relocated in early March 2002, and the Site is currently vacant.

1.2 Summary of Site History

Review of aerial photos and Sanborn maps indicate the eastern portion of the Site was occupied by two industrial structures (Atlas Gas Engine Machine Shop and Interlocking Stone & Gilro Machine Company) and a railroad spur in the early portion of the 1900s. The Site was vacant for a time, until the mid-1950s, when the existing Building 1 was constructed for use by Liquid Carbonic.

Liquid Carbonic initially used the Site for the manufacture of liquid and solid carbon dioxide (dry ice). Gaseous carbon dioxide was generated through the combustion of natural gas. Various processes were employed to collect and purify the carbon dioxide gas and compressors were utilized to create liquid carbon dioxide and dry ice.

In the early 1970s, an alternate local source of gaseous carbon dioxide made its onsite generation no longer economical. The carbon dioxide gas generating equipment was removed from the Site. The facility was converted to produce acetylene gas, which was generated at the Site until early 2002. The production of acetylene gas resulted in the generation of lime (calcium

hydroxide) as a coproduct. The available information indicates that the lime slurry generated at the Site was accumulated in onsite holding tanks and belowgrade sumps until the lime slurry was removed by a third party for reuse. Other activities at the Site included packaging and distribution of industrial gases such as carbon dioxide, nitrogen, oxygen, and argon.

1.3 Previous Subsurface Investigations and Remediation

Four underground storage tanks (USTs), including two diesel USTs, one gasoline UST and one acetone UST were removed from the Site during 1989 and 1990. Diesel- and gasoline-impacted soils were encountered at the diesel dispenser and gasoline tank excavations, respectively. No acetone-impacted soils were encountered at the former acetone tank. Groundwater samples collected from the excavation beneath the gasoline tank indicated the presence of hydrocarbons in water. After installation and monitoring of three groundwater monitoring wells in 1995 and 1996 at the Site, the Alameda County Department of Environmental Health allowed the groundwater monitoring to be discontinued and the wells were decommissioned by pressure grouting (Golden Gate Tank Removal 1997).

Data from these monitoring wells indicate that the total dissolved solids concentrations in groundwater at the Site exceed 3,000 milligrams per liter (mg/l), and thus groundwater at the Site is not considered suitable by the state of California for domestic or municipal water supply purposes.

Based upon visual observations of Alliance's operations at the Site in 2000, and in response to requests from the Port and the County, Praxair agreed to perform additional subsurface investigation activities at the Site. The proposed activities were described in the *Subsurface Characterization Work Plan* (Kennedy/Jenks 2001a) which was approved by the County, subject to several conditions, in a letter to Praxair dated 11 April 2001 (ACHCSA 2001).

Soil and reconnaissance groundwater sampling activities were performed at the Site in May 2001, and the analytical results and findings were submitted to the County in the *Subsurface Characterization Report* (Kennedy/Jenks 2001b). The May 2001 sampling locations are shown on Figure 2. On the basis of the available information regarding historical production activities at the Site, and data from the May 2001 sampling activities, semi-volatile organic compounds, and polychlorinated biphenyls are not considered chemicals of interest at the Site. Metals are chemicals of interest in soils at two locations of the Site: elevated concentrations of metals were detected in the shallow soil sample collected from Boring KB-7 and elevated concentrations of mercury were found in shallow soil samples collected in the vicinity of Boring KB-11. Total extractable petroleum hydrocarbons (TEPH) is a chemical of interest in groundwater in the vicinity of Boring KB-13, TEPH may also be a chemical of interest in soils at several locations at the Site.

A response to the *Subsurface Characterization Report* has not been received from the County. Because Praxair intends to address certain environmental issues prior to returning the Site to the Port, remediation activities and additional investigation activities were proposed in specific locations of the Site based upon the recommendations included in the *Subsurface Characterization Report*. The proposed additional sampling activities were described in the *Work Plan for Soil Remediation and Additional Characterization* (Work Plan), submitted by Kennedy/Jenks to the County on 20 September 2002 (Kennedy/Jenks 2002a).

1.4 Operations Removal and Dismantling

Alliance Gas Products removed its operations from the Site in early 2002. Some process equipment, including several aboveground bulk liquid storage tanks, four aboveground lime/water decant tanks, the acetylene generation equipment, a small cooling tower and cylinder filling piping, remained at the Site. In June 2002, Praxair removed remaining process equipment and piping from the Site. The buildings and basic utility lines (water, electrical, gas) currently remain at the Site.

The removal of equipment and hazardous material is described in the *Report on Hazardous Materials Closure Activities at 901 Embarcadero, Oakland, California*, submitted by Kennedy/Jenks to the City of Oakland Fire Department on 17 September 2002 (Kennedy/Jenks 2002b). The hazardous materials closure activities were accepted by the Oakland Fire Department in a letter dated 27 November 2002.

1.5 Purpose

The Port and Praxair are currently negotiating the termination of Praxair's lease of the Site. Although specific plans for redevelopment have not been prepared, the Port has indicated that the Site and surrounding parcels are slated for redevelopment with future uses including residential and commercial construction.

In response to requests from the Port and the County, Praxair agreed to perform soil remediation and additional subsurface investigation activities at the Site as part of Site closure activities. The proposed activities were described in the Work Plan, which was submitted to the Port and the County for review and approval. The County approved the Work Plan in a letter to Praxair dated 25 November 2002 (ACHCSA 2002).

The subsurface investigation activities described in the Work Plan were performed to further characterize soil and groundwater in specific areas of the Site. A summary of the sampling and analysis plan is presented in Table 1.

Section 2: Subsurface Investigation Activities

2.1 Permitting and Utility Clearance

Kennedy/Jenks obtained a drilling permit from Alameda County prior to starting the field activities. A copy of the permit is included in Appendix A.

The Health and Safety Plan prepared for the May 2001 subsurface investigation activities was maintained onsite during the drilling and sampling activities.

Prior to drilling, Kennedy/Jenks contacted Underground Service Alert (USA) to mark the buried utilities present beneath public property adjacent to the Site. In addition, Subdynamic Locating Services of San Jose, California conducted a utility survey on 29 January 2003 to attempt to locate buried utilities and other subsurface obstructions at the proposed locations of the soil borings.

2.2 Drilling and Reconnaissance Groundwater Sampling

Soil borings were advanced in 17 locations and soil and/or reconnaissance groundwater samples were collected from 14 of these borings on 4 and 5 February 2003. Samples were collected in accordance with the sampling and analysis plan set forth in Table 1. The sampling locations and analytical parameters are summarized in Table 1 and further explained in the Work Plan, and the locations of the soil borings are shown on Figure 2.

2.2.1 Procedures

Of the 17 soil borings, five were advanced to a depth of four feet below ground surface (bgs) (Borings KB-34, KB-33A, KB-37, KB-38, KB-39); Borings KB-35 and KB-36 were advanced to a depth of six feet bgs; Borings KB-29 and KB-32 were advanced to eight feet bgs in order to collect a reconnaissance groundwater sample; Borings KB-27, KB-28, KB-30, KB-31, and KB-41 were advanced to 12 feet bgs in order to collect a reconnaissance groundwater sample; and Borings KB-40 and KB-42 were advanced to 16 feet bgs in order to collect a reconnaissance groundwater sample. Boring KB-33 met mechanical refusal at 3 feet bgs and so soil samples from adjacent Boring KB-33A were submitted for analysis.

The soil borings were drilled by TEG Northern California, Inc. of Rancho Cordova, California. The borings were continuously cored using a hydraulic push/drive Strataprobe™ system and the soil was lithologically logged by a Kennedy/Jenks registered geologist using the Unified Soil Classification System (ASTM D 2488-93). After completion of sampling activities, the borings were sealed with neat cement. The lithologies encountered during the drilling of each soil boring and other pertinent observations are recorded on boring logs (Appendix A).

Drilling equipment was cleaned with soap and water prior to initial use and between each boring. New PVC casing and screen were used to collect each groundwater sample, and were discarded after completion of each boring. New dedicated tubing was used with a peristaltic pump to collect the groundwater samples. New tubing used with the peristaltic pump to collect

other groundwater samples was discarded after sample collection. Decontamination water was used to mix the cement. Soil cuttings were contained in 5-gallon pails, which were sealed, dated and labeled as to their contents. The pails were temporarily retained onsite pending decisions regarding disposal of the cuttings.

2.2.2 Soil Sample Collection

Soil samples were collected using the Strataprobe™ hydraulic push/drive system, in which the soil coring apparatus includes a 4-foot long steel sampling barrel holding an acetate liner. To retain a soil sample, a portion of the acetate liner was cut from the tubing, sealed with Teflon™ sheets, capped, and placed in a chilled cooler.

Soil samples were held in chilled coolers at approximately 4°C and shipped to the analytical laboratory under chain-of-custody procedures.

2.2.3 Reconnaissance Groundwater Sample Collection

Reconnaissance groundwater samples were collected from the shallow groundwater zone in eight borings. A reconnaissance groundwater sample could not be collected from Boring KB-41 because groundwater did not recharge into the boring at a sufficient rate. After drilling to the shallow groundwater zone, commonly encountered between 8 and 12 feet bgs although some borings were advanced to 16 feet bgs to allow adequate groundwater recharge, a 5-foot section of disposable 3/4-inch diameter, 0.010-inch slotted PVC screen, flush-threaded to 3/4-inch diameter PVC blank casing was inserted into the borehole. The shallow zone groundwater samples were then collected from the PVC casing using a peristaltic pump with new, disposable tubing.

The groundwater samples were collected using containers and preservatives appropriate for the selected analytical procedures. Samples to be analyzed for dissolved metals were filtered by pumping the water through an inline, 0.45-micron filter to remove solids. Samples were held in chilled coolers at approximately 4°C and shipped to the analytical laboratory under chain-of-custody procedures.

2.3 Sample Analysis

The samples were submitted under chain-of-custody procedures to STL of Pleasanton, California, a state-certified analytical laboratory. Samples were analyzed for the constituents identified in Table 1. The analytical laboratory reports are included in Appendix B.

2.3.1 Soil Sample Analysis

As indicated in Table 1, soil samples from Borings KB-33A and KB-34 were analyzed for acetone using EPA Method 8260; soil samples from Borings KB-35 and KB-36 were analyzed for total extractable petroleum hydrocarbons as diesel and motor oil (TPHd and TPHmo) using EPA Method 8015 Modified with a preparatory silica gel cleanup step; and the shallow soil samples from Borings KB-37 and KB-38 were analyzed for mercury by EPA Method 7471A. The soil sample from Boring KB-39 was not submitted for analysis.

The soil sample analytical results for acetone, TPHd, and TPHmo are summarized in Table 2 and the soil sample analytical results for mercury are summarized in Table 3. Tables 2 and 3 also include analytical results from samples collected in May 2001.

2.3.2 Reconnaissance Groundwater Sample Analysis

Reconnaissance groundwater samples from Borings KB-30, KB-31, KB-32, KB-40, and KB-42 were analyzed for TPHd and TPHmo using EPA Method 8015 Modified with a preparatory silica gel cleanup step. Reconnaissance groundwater samples from Borings KB-27, KB-28, KB-29, and KB-30 were filtered in the field and analyzed for dissolved Title 22 metals. The groundwater sample results for TPHd and TPHmo analysis are summarized in Table 4 and the results for the dissolved metals analysis are presented in Table 5. Table 4 also includes data from samples collected in May 2001.

2.4 Quality Assurance/Quality Control (QA/QC)

2.4.1 Field QA/QC

In addition to careful equipment decontamination between samples and sampling locations, field QA/QC measures also included collecting and analyzing one duplicate reconnaissance groundwater sample.

The duplicate groundwater sample was collected from Boring KB-40. The analytical results from the duplicate sample were consistent with the results from the primary sample.

2.4.2 Laboratory QA/QC

With respect to analysis for extractable hydrocarbons, the laboratory analytical data reports note either that "hydrocarbon reported does not match the pattern of our diesel standard" or that "hydrocarbon reported is in the late diesel range, and does not match our diesel standard".

Sample results were checked for holding times, laboratory control spike and spike duplicate recoveries, surrogate recoveries and laboratory blank results. All of the samples were analyzed within the required method holding times. All of the laboratory control spike and spike duplicates, and all of the surrogate recoveries and method blanks were within QC limits.

The laboratory reported that the matrix spike and matrix spike duplicate results for the mercury analysis were outside of QC limits due to matrix interference, but precision and accuracy were verified by laboratory control spike and spike duplicate results. The laboratory also reported for this sample that the relative percent difference (RPD) results were out of QC limits due to sample heterogeneity.

Review of the QA/QC data and commentary indicates the sample results are within acceptable QA/QC conditions.

2.5 Management of Investigation-Derived Residuals

Soil cuttings were placed in DOT-approved 5-gallon containers. The soil cuttings were subsequently transferred to one of the stockpiles of excavated soil generated on 3 March 2003.

Section 3: Results of Subsurface Investigation Activities

The analytical results discussed below are evaluated against the Interim Final Risk Based Screening Levels (RBSLs) established by the San Francisco Bay Area Regional Water Quality Control Board (RWQCB 2001). Based upon the results of previous investigations and the information summarized in Section 1, the RBSLs for surface soils and groundwater where a drinking water resource is not threatened are used as comparison values.

3.1 Soil Samples

3.1.1 Acetone

Soil samples were collected adjacent to the former acetone storage area to evaluate potential historical release of acetone. Boring KB-33A was located in the concrete-paved area where acetone drums had been stored, and Boring KB-34 was located in the unpaved area next to the concrete paving. One shallow and one deeper soil sample was collected from each of the two borings. No staining or odor was observed during drilling of the borings. As summarized in Table 2, acetone was not detected in the soil samples from Borings KB-33A and KB-34. The analytical results indicate that acetone was not released to the subsurface in this area.

3.1.2 Total Petroleum Hydrocarbons

Two soil borings, Borings KB-35 and KB-36, were advanced adjacent to the cooling tower, to evaluate potential releases from an oil/water separator that may have been located in this area during past site operations. Soil samples from approximately 5 feet bgs were collected from Borings KB-35 and KB-36. No hydrocarbon staining or odor was observed during drilling of the borings. As summarized in Table 2, extractable TPH was not detected in either sample.

3.1.3 Mercury

Additional soil samples were collected in the vicinity of Boring KB-11 to assess the amount of soil targeted for excavation. Mercury had been detected in previously collected samples at concentrations up to 8.3 milligrams per kilogram (mg/kg), less than the RBSL for mercury in commercial/industrial settings but above mercury concentrations detected in soil samples obtained in other areas of the Site. The analytical results for soil samples analyzed for mercury are summarized in Table 3 and presented on Figure 3.

As shown on Figure 3, analytical results from samples collected in July 2002 and February 2003 indicate that mercury concentrations in soil generally appeared to decrease with increasing depth and with increasing distance from the edge of the concrete-paved area.

3.2 Groundwater Samples

3.2.1 Total Petroleum Hydrocarbons

Reconnaissance groundwater samples were collected from five borings in the vicinity of Boring KB-13, to assess the lateral extent of the extractable TPH detected in the sample from Boring KB-13.

The analytical results are summarized in Table 4 and are shown on Figure 4. TPHd was detected at 6,200 micrograms per liter (µg/l) in the sample from Boring KB-13 (collected in May 2001), and at 64 µg/l in the sample from Boring KB-30, approximately 18 feet north of Boring KB-13. The laboratory flagged both results as not matching the diesel standard. TPHmo was not detected in any of the samples collected in February 2003, although the reporting limit was raised due to reduced sample size. The reporting limit for the sample from Boring KB-42 is especially high, because the slow rate of groundwater recharge prevented filling the sample container completely.

Only two groundwater samples from the Site, collected from Borings KB-13 and KB-15, contained TPHd at concentration exceeding the RBSL of 640 µg/l. When the groundwater sample from Boring KB-15 was reanalyzed using the silica gel cleanup step, the TPHd concentration decreased to a concentration less than the RBSL. These results, combined with the February 2003 sample results, indicate that anthropogenic TPH impact in groundwater is limited to a small area near Boring KB-13.

3.2.2 Metals

Unfiltered reconnaissance groundwater samples from four locations were analyzed for 16 Title 22 metals in May 2001(Kennedy/Jenks 2001b). Although it is unlikely that the shallow groundwater from this Site would be used for human consumption, samples of filtered groundwater were collected in this subsurface investigation to address concerns about the concentrations of dissolved metals.

Filtered reconnaissance groundwater samples from four soil borings were collected in February 2003 and were analyzed for 17 Title 2 metals, summarized in Table 5. As shown in Table 5, the concentration of several dissolved metals exceeded the respective RBSLs in several samples. However, beryllium, cadmium, lead, mercury, and silver were not detected in any of the samples, and other metals, such as chromium and zinc, were detected in only one of the four samples or were detected at concentrations less than the respective RBSL.

Although dissolved antimony, arsenic, barium, cobalt, copper, nickel, selenium and thallium exceeded RBSLs in at least one groundwater sample, these values are considered representative of background conditions, and are not believed to be the result of previous onsite activities.

Although the samples were not collected at the same time or same locations, the concentrations of dissolved metals in the four groundwater samples collected at the Site in February 2003 are typically much less than concentrations of metals in unfiltered groundwater samples collected in

May 2001. This suggests that, as expected, the metals are associated with soil particles which were entrained in the reconnaissance groundwater samples.

not if present after filtering

Section 4: Soil Excavation Activities

4.1 General Description of Activities

4.1.1 Field Preparation Activities

Prior to the start of excavation, the City of Oakland (City) was contacted regarding a grading permit, and the City representative stated that a grading permit would not be required to address the relatively small volume of anticipated soil excavation. However, the City representative did request that straw wattles be placed around the base of the stockpiles to reduce silt and water runoff from the stockpiles.

The property owner was notified in advance of the excavation activities. Kennedy/Jenks prepared an addendum to the Site Health and Safety Plan to address the soil excavation activities. Underground Service Alert was notified and a search for underground utilities was performed.

4.1.2 Excavation Activities

The excavation activities in the three designated areas were performed on 3 March 2003. The excavation activities were performed by Cornerstone Environmental Contractors (Cornerstone). Kennedy/Jenks provided direction to Cornerstone and collected confirmation soil samples from the completed excavations.

At the conclusion of the excavation activities, and following the collection of confirmation soil samples on 3 March 2003, the three excavated areas were lined with plastic, pending receipt of analytical results from confirmation samples.

Representative photographs of the excavation and backfill activities are included in Appendix C.

Based upon the analytical results from soil samples collected on 3 March 2003, limited additional excavation of soil was performed in two of the three areas on 15 April 2003.

4.1.3 Collection and Analysis of Soil Samples

Post-excavation confirmation soil samples were collected from the sidewalls and floors of each of the three excavations. The locations of the confirmation soil samples are shown on Figure 5. The samples were collected into steel sleeves that were capped at both ends with Teflon™ tape and a plastic cap. Following collection, the soil samples were placed in a cooler chilled with ice (frozen water) to approximately 4°C. The samples were transported to the analytical laboratory under chain-of-custody procedures.

The samples were submitted to a state-certified laboratory, STL San Francisco in Pleasanton California, for analysis. The analytical data reports and chain of custody forms are included in Appendix D. The samples were analyzed in accordance with the sampling and analysis plan set forth in the Work Plan.

Extractable petroleum hydrocarbons were analyzed using EPA Method 8015. Mercury was analyzed using EPA Method 7471A, and metals were analyzed using EPA Method 6010. EPA Method 9045 was used for analysis of soil pH.

4.1.4 Soil Stockpiles

Separate stockpiles were created for each of the three excavation areas, and these stockpiles were not combined pending decisions about disposal locations. The three stockpiles were covered with plastic and surrounded by straw wattles. Four-point composite samples were collected from each of the three soil stockpiles on 3 March 2003 and submitted for analysis of the chemical parameters specified by the landfill. The analytical results from the soil stockpile samples are included in Appendix D.

4.1.5 Backfill and Compaction

In effort to minimize the contractor's mobilization of equipment to the site, backfill of the excavated areas was scheduled to coincide with removal of the stockpiles. Removal of the stockpiles was delayed by the need for additional analysis of some stockpile samples and the landfill acceptance processes.

The backfill and offsite transportation activities occurred on 15 April 2003. Clean import fill material was obtained from Stevens Creek Quarry in Cupertino and placed in the excavations. Compaction of the import fill was performed by wheel rolling with construction equipment.

4.2 Excavation at Boring KB-7

In the vicinity of Boring KB-7, an area measuring approximately 18 feet by 18 feet was excavated to a depth of approximately 2 feet bgs. The lateral extent of the excavation was limited by the adjacent building, the perimeter fence and the end of the railroad tracks. In addition, the south wall of the adjacent building was found to have a spread footing and a below ground stormwater drainage pipe was uncovered running parallel to the wall of the building. The footing and the drainage pipe prevented the excavation from extending up to the building wall.

As set forth in the Work Plan, six soil confirmation samples were collected and submitted for analysis of TEPH, metals and pH. The locations of the confirmation soil samples are shown on Figure 5. Analytical results for TEPH and pH are summarized in Table 6. The analytical results for metals are summarized in Table 7.

On the basis of the analytical results from the post-excavation confirmation soil samples and the physical barriers limiting any expansion of this excavated area, no additional excavation was performed in this area.

4.3 Excavation at Boring KB-11

As shown on Figure 5, the irregularly shaped excavation area in the vicinity of Boring KB-11 was approximately 35 feet long and as much as 20 feet wide. The excavation depths varied from 6 inches to 36 inches bgs based upon visual observations during the initial excavation and

analytical results from soil samples. During excavation of this area, a thin layer of black soil, apparently containing oil or tar, was encountered in a portion of the area. The layer of black soil was excavated and removed based upon visual observations, resulting in a portion of the excavated area extending to a depth of 36 inches.

As set forth in the Work Plan, six post-excavation confirmation soil samples were collected on 3 March 2003 and submitted for analysis of mercury and pH. The locations of the soil samples are shown on Figure 5. The analytical results are summarized in Table 8.

Based upon the analytical results from post-excavation confirmation soil samples, additional soil was excavated from this area on 15 April 2003. The excavation was extended laterally in the vicinity of sample "11" Conf-2, and deepened in the vicinity of sample "11" Conf-5. Soil samples were collected following the additional excavation of soil and prior to placing the backfill on 15 April 2003. These samples were submitted for analysis of mercury and pH, and the analytical results are included in Table 8.

The data from the post-excavation confirmation samples indicate that residual concentrations of mercury in soil in the vicinity of Boring KB-11 are less than RBSLs for both residential and commercial/industrial land uses. The pH values are slightly higher than those measured in soils in other area of the Site, and may reflect the historical management of lime in this area of the Site. The pH values do not indicate that remedial measures are necessary to address pH in this area.

4.4 Excavation at Boring KB-13

As shown on Figure 5, an area with a footprint of approximately 10 feet by 20 feet, and also extending under a stairway was excavated in the vicinity of Boring KB-13 on 3 March 2003. This area was excavated to a depth of approximately 6 inches bgs.

As set forth in the Work Plan, six post-excavation confirmation soil samples were collected on 3 March 2003 and submitted for analysis of TEPH and metals. The locations of the soil samples are shown on Figure 5. The analytical results for TEPH are summarized in Table 9, and the analytical results for metals are summarized in Table 10.

Based upon the analytical results from post-excavation confirmation soil samples, a small amount of additional excavation was performed in this area on 15 April 2003. Soil in the vicinity of Sample "13" Conf-4 was excavated to a depth of 1 foot bgs. A post-excavation soil sample was collected following the additional excavation and prior to backfilling the excavated area. This sample was submitted for analysis of TEPH and metals, and the analytical results are included in Tables 9 and 10.

The concentrations of TPHd and TPHmo in Sample "13" Conf-4A, collected after the excavation of additional soil on 15 April 2003 exceeded the concentrations of TPHd and TPHmo detected in soil samples previously collected from this area. The data suggest a localized area of shallow soil containing TPH, although the lateral and vertical extent of the elevated concentrations of TPH has not been characterized.

4.5 Residuals Management

After analysis of the composite samples from the soil stockpiles, the soils were accepted for disposal at two facilities. Concentrations of soluble lead in the composite samples from the stockpiles created from the excavations for Boring KB-11 and Boring KB-13 exceeded the California Soluble Threshold Limit Concentration (STLC) and therefore these stockpiles were transported to Waste Management's Kettleman Hills disposal facility as non-RCRA hazardous waste. Soil from the excavation for Boring KB-7 was transported to the Forward Inc. landfill in Manteca.

Surface soil samples collected from Borings KB-7, KB-11 and KB-13 in May 2001 contained total lead in concentrations of 170 mg/kg, 49 mg/kg and 72 mg/kg, respectively. Therefore, it was anticipated that concentrations of total lead in the soil excavated near these borings could exceed 50 mg/kg, thus necessitating analysis for soluble lead for purposes of disposal of the excavated soil. The source of the elevated lead is not known, however as discussed in the *Subsurface Characterization Report* (Kennedy/Jenks 2001b), analytical results from numerous soil samples indicate that concentrations of lead in onsite soils are less than RBSLs for residential land uses.

Soil from the excavation for Boring KB-7 was transported to the Forward Inc. landfill in Manteca.

The stockpiles were removed from the Site on 15 April 2003. Approximately 50 tons of soil was removed from the Site and transported to the Forward landfill for disposal and 55 tons of soil was removed and transported to Kettleman Hills for disposal.

Copies of residuals management documentation are included in Appendix E.

Section 5: Findings and Conclusions

5.1 Subsurface Investigation Activities

On the basis of the subsurface investigation activities and analytical results described in the preceding sections of this Report and the findings of the previous subsurface investigation activities (Kennedy/Jenks 2001b), the following findings and conclusions have been developed:

- During the subsurface investigation activities in February 2003, six additional soil and eight additional groundwater samples were collected at the Site.
- Groundwater was encountered in soil borings at depths of approximately 6 to 16 feet bgs.
- Elevated concentrations of TPHd in groundwater were previously observed in only one sample, collected from Boring KB-13 adjacent to Building 1. To further assess this area, five additional reconnaissance groundwater samples were collected and analyzed for TPHd and TPHmo in February 2003. TPHd was detected at 64 µg/l (less than the RBSL) in the sample from Boring KB-30, but was not detected above analytical reporting limits in the other four groundwater samples. This suggests that the elevated concentrations of TPHd in groundwater have not migrated a significant distance from Boring KB-13. TPHmo was not detected above analytical reporting limits in any of the groundwater samples collected in this area.
- Concentrations of dissolved metals were measured in four reconnaissance groundwater samples collected in February 2003. Although the concentrations of several metals exceeded the RBSL values, these metals are not believed to be associated with Praxair's or its predecessor's operations at the Site. The concentrations of dissolved metals were typically much lower than metals concentrations detected in the unfiltered reconnaissance groundwater samples collected in May 2001. This suggests that the metals are associated with soil particles suspended in the unfiltered samples.
- Acetone was not detected above analytical reporting limits in soil samples collected from two locations adjacent to the former acetone storage area.
- TPH was not detected above analytical reporting limits in soil samples collected from either side of the former cooling tower. The data suggest the oil/water separator, if historically present in this area, has been removed, and that soil in this area has not been impacted by petroleum hydrocarbons.

5.2 Soil Excavation Activities

On the basis of the soil excavation activities and analytical results described herein, the following findings and conclusions have been developed.

- During the soil excavation activities in March and April 2003, 105 tons of soil were excavated, removed from the Site and transported for offsite disposal at appropriately

permitted facilities. Twenty-one soil samples were collected from an additional 18 locations and analyzed for chemicals of interest in the excavated areas.

- Prior to excavation of soil in the area of Boring KB-11, mercury had been detected in shallow soil samples from this area at concentrations greater than the residential RBSL but less than the commercial/industrial RBSL. Additional soil samples were collected from this area to better delineate the amount of soil to be excavated. Shallow soil was excavated from this area in March and April 2003, and the analytical results from post-excavation confirmation soil samples indicate that residual concentrations of mercury in soil are less than residential RBSL values.

- As characterized by a post-excavation sample, soil containing petroleum hydrocarbons at concentrations exceeding applicable RBSLs is present at the northern edge of the excavation near Boring KB-13.

Section 6: Recommendations

On the basis of the subsurface investigation activities and analytical results described herein, the following recommendations have been developed:

- No further actions are necessary to address soil or groundwater in the former acetone drum storage area.
- No further actions are necessary to address soil or groundwater near the former cooling tower immediately west of Building 1. SB35 +26
- No additional assessment of groundwater is recommended.
- No further remedial actions are necessary to address soils in the vicinity of Boring KB-7.
- No further remedial actions are necessary to address concentrations of mercury in soil in the vicinity of Boring KB-11. Shallow soils have been excavated and the data from confirmation samples indicate that residual concentrations of mercury in soil are less than the applicable RBSL.
- Shallow soil containing elevated concentrations of petroleum hydrocarbons remains in the vicinity of Boring KB-13. It is anticipated that this soil will be addressed in the context of the planned building demolition activities.
- The analytical results from five additional reconnaissance groundwater samples in the vicinity of Boring KB-13 indicate that the elevated concentrations of petroleum hydrocarbons in groundwater at Boring KB-13 are limited in extent. Therefore, additional measures are not recommended to address groundwater in the vicinity of Boring KB-13.

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Tables

Table 1: Sampling and Analysis Plan

Area	Boring ID	Sampled Media	TEPH[a]	Metals[b]	Mercury[c]	Acetone[d]	Comments
KB-23 Area	KB-27	Groundwater		X			
KB-15 Area	KB-28	Groundwater		X			
High pH Water Pit Area	KB-29	Groundwater		X			
Vicinity of Boring KB-13	KB-30	Groundwater	X	X			
	KB-31	Groundwater	X				
	KB-32	Groundwater	X				
	KB-40	Groundwater	X				
	KB-41						Insufficient groundwater recharge for sample collection
	KB-42	Groundwater	X				
Former Acetone Drum Area	KB-33	Soil					Low soil sample recovery; samples not analyzed
	KB-33A	Soil				X	
	KB-34	Soil				X	
Cooling Tower Outside Building 1	KB-35	Soil	X				
	KB-36	Soil	X				
KB-11 Area	KB-37	Soil			X		
	KB-38	Soil			X		
	KB-39	Soil					Boring close to existing boring; samples not analyzed

(a) Samples analyzed for total extractable petroleum hydrocarbons using silica gel cleanup and EPA Method 8015 Modified.
(b) Samples analyzed for dissolved 17 CAM metals using EPA Method 6010; samples filtered in field with 0.45-micron filter.
(c) Samples analyzed for mercury using EPA Method 7471A.
(d) Samples analyzed using EPA Method 8260B; only acetone reported.

Table 2: Soil Sample Analytical Results – Organic Compounds

Boring Name	Sample ID[a]	Depth (feet bgs)[b]	Sample Date	VOCs[c] (µg/kg)[d]	Semi-VOCs[e] (mg/kg)[f]	TPHd[g] (mg/kg)	TPHmo[h] (mg/kg)	Comments
RBSL[i]				varies	varies	500	500	
KB-1	KB-1-S-0.2/0.7	0.2–0.7	05/17/01	ND[j]	NA[k]	12	NA	
	KB–1-S-3/3.5	3–3.5	05/17/01	ND	NA	<1.0	NA	
KB-3	KB-3-S-3/3.5	3-3.5	05/18/01	ND	NA	<1.0	NA	
KB-4	KB-4-S-1.0/1.5	1.0–1.5	05/17/01	ND	NA	25	NA	
	KB-4-S-3/3.5	3-3.5	05/17/01	ND	NA	<1.0	NA	
KB-5	KB-5A-S-3/3.5	3-3.5	05/18/01	6.0	NA	1.3	NA	Methylene chloride detected at a concentration of 6.0 µg/kg. No other VOCs detected above analytical reporting limits.
KB-6	KB-6A-S-3/3.5	3-3.5	05/18/01	ND	ND[l]	<1	NA	
KB-7	KB-7-S-0/0.5	0-0.5	05/18/01	ND	ND	2,500	NA	
	KB-7-S-3/3.5	3–3.5	05/18/01	ND	ND	<1.0	NA	
KB-8	KB-8-S-2/2.5	2-2.5	05/18/01	ND	NA	<1.0	NA	
KB-11	KB-11-S-0/0.5	0-0.5	05/18/01	ND	ND	7.8	NA	
KB-12	KB-12-S-0/0.5	0-0.5	05/18/01	ND	NA	NA	NA	
KB-13	KB-13A-S-0/0.5	0-0.5	05/18/01	ND	ND	55	NA	

Table 2: Soil Sample Analytical Results – Organic Compounds

Boring Name	Sample ID[a]	Depth (feet bgs)[b]	Sample Date	VOCs[c] (µg/kg)[d]	Semi-VOCs[e] (mg/kg)[f]	TPHd[g] (mg/kg)	TPHmo[h] (mg/kg)	Comments
RBSL[i]				varies	varies	500	500	
	KB-13-S-2/2.5[m]	2-2.5	05/17/01	ND	ND	3.6	NA	
KB-14	KB-14-S-3/3.5	3-3.5	05/18/01	NA	NA	4.5	NA	
KB-15	KB-15-S-2/2.5[n]	2–2.5	05/17/01	ND	NA	2.3	NA	
KB-16	KB-16-S-2/2.5	2-2.5	05/18/01	ND	ND	<1.0	NA	
KB-17	KB-17-S-3/3.5	3-3.5	05/18/01	NA	NA	1.4	NA	
KB-18	KB-18-S-0/0.5	0-0.5	05/18/01	ND	NA	270	NA	
KB-20	KB-20-S-0/0.5	0-0.5	05/18/01	ND	NA	9.0	NA	
	KB-20-S-3/3.5	3-3.5	05/18/01	ND	NA	<1.0	NA	
KB-22	KB-22-S-0.5/1.0	0.5-1.0	05/18/01	ND	NA	2.2	NA	
KB-23	KB-23-S-2/2.5	2-2.5	05/18/01	ND	NA	NA	NA	
KB-33A	KB-33A-S-0.5/1.0	0.5-1.0	02/05/03	<50	NA	NA	NA	Only acetone reported
KB-33A	KB-33A-S-2.0/2.5	2.0/2.5	02/05/03	<50	NA	NA	NA	Only acetone reported
KB-34	KB-34-S-0.0/0.5	0.0-0.5	02/04/03	<50	NA	NA	NA	Only acetone reported
	KB-34-S-2.0/2.5	2.0/2.5	02/04/03	<50	NA	NA	NA	Only acetone reported

Table 2: Soil Sample Analytical Results – Organic Compounds

Boring Name	Sample ID[a]	Depth (feet bgs)[b]	Sample Date	VOCs[c] (µg/kg)[d]	Semi-VOCs[e] (mg/kg)[f]	TPHd[g] (mg/kg)	TPHmo[h] (mg/kg)	Comments
RBSL[i]				**varies**	**varies**	**500**	**500**	
KB-35	KB-35-S-5.0/5.5	5.0/5.5	02/05/03	NA	NA	<1.0	<50	
KB-36	KB-36-S-4.5/5.0	4.5-5.0	02/05/03	NA	NA	<1.0	<50	

(a) Samples analyzed by STL San Francisco.
(b) feet bgs = feet below ground surface.
(c) Samples analyzed for volatile organic compounds using EPA Method 8260A.
(d) µg/kg = micrograms per kilogram.
(e) Samples analyzed for semi-volatile organic compounds using EPA Method 8270.
(f) mg/kg = milligrams per kilogram (mg/kg).
(g) TPHd = Total extractable petroleum hydrocarbons quantified as diesel (TPHd) using EPA Method 8015M.
(h) TPHmo = Total extractable petroleum hydrocarbons quantified as motor oil (TPHmo) using EPA Method 8015M.
(i) RBSL = Risk Based Screening Levels from Application of Risk-Based Screening Levels and Decision Making to Sites with Impacted Soil and Groundwater (RWQCB 2001). Groundwater IS NOT a current or potential source of drinking water. RBSL for TPH (middle distillates) for both residential and industrial/commercial land use is 500 mg/kg.
(j) ND= not detected. No analytes detected above analytical reporting limits. Analytical reporting limits for individual VOCs range from 5.0 to 50 µg/kg.
(k) NA = not analyzed. Sample not analyzed for this parameter.
(l) Analytical reporting limits for individual semi-VOCs range from 0.067 to 8.3 mg/kg.
(m) Sample was misidentified on laboratory analytical data reports as KB-1-S-2/2.5.
(n) Sample was misidentified on laboratory analytical data report as KB-15.5-4.5.

Table 3: Mercury Concentrations in Soil Samples Near Boring KB-11 – Prior to Excavation

Soil Sample Location	Sample Depth (feet bgs)[a]	Date Collected	Mercury Concentration (mg/kg)[b][c]
RBSL–Resid[d]			~~4.7~~ 2.5
RBSL–Comm/Ind[d]			10
KB-11	0.0-0.5	05/18/01	5.6
KB-11A	1.0-1.5	06/06/02	0.37
KB-24	0.0-0.5	06/06/02	8.3
	1.0-1.5	06/06/02	0.11
KB-25	0.0-0.5	06/06/02	0.86
KB-25A	0.5	06/06/02	1.2
KB-26	0.0-0.5	06/06/02	2.8
	1.0-1.5	06/06/02	4.6
KB-37	0.0 – 0.5	02/05/03	0.44
	1.0-1.5	02/05/03	NA[e]
KB-38	0.0 – 0.5	02/05/03	1.5
	1.0-1.5	02/05/03	NA
KB-39	0.0 – 0.5	02/05/03	NA
	1.0-1.5	02/05/03	NA

(a) feet bgs = feet below ground surface
(b) mg/kg = milligrams per kilogram
(c) Samples analyzed by STL San Francisco using EPA Method 7471A.
(d) RBSL = Risk Based Screening Levels for Surface Soil from Application of Risk-Based Screening Levels and Decision Making to Sites with Impacted Soil and Groundwater (RWQCB 2001). Groundwater IS NOT a current or potential source of drinking water. Values presented for residential and commercial/industrial land use scenarios.
(e) NA = Not Analyzed

Table 4: Groundwater Sample Analytical Results – Extractable Petroleum Hydrocarbons

Boring Name	Sample ID[a]	Sample Date	TPHd[b] (µg/l)[c]	TPHd (silica gel)[d] (µg/l)	TPHmo[e] (silica gel) (µg/l)
RBSL[f]			640	640	640
KB-1	KB-1-WA	05/18/01	<50	NA[g]	NA
KB-4	KB-4-W	05/17/01	58[h]	NA	NA
KB-5	KB-5-W	05/17/01	56[h]	NA	NA
	5/17-DUP	05/17/01	54[h]	NA	NA
KB-6	KB-6-W	05/17/01	140[h]	NA	NA
KB-8	KB-8-W	05/18/01	140[h]	NA	NA
KB-13	KB-13-W	05/18/01	7,500[h]	6,200[i]	NA
KB-15	KB-15-WA	05/17/01	770[h]	94[h]	NA
KB-18	KB-18-W	05/17/01	150[h]	NA	NA
KB-22	KB-22-W	05/18/01	65[h]	NA	NA
KB-23	KB-23-W	05/18/01	590	<71	NA
KB-30	KB-30-W-12-A	02/4/03	NA	64[h]	<500
KB-31	KB-31-W-12	02/04/03	NA	<62[j]	<620[j]
KB-32	KB-32-W-8	02/04/03	NA	<56[j]	<560[j]
KB-40	KB-40-W-16	02/05/03	NA	<57[j]	<570[j]
	2/5 Dup	02/05/03	NA	<72[j]	<720[j]
KB-42	KB-42-W-16	02/05/03	NA	<180[j]	<1,800[j]

(a) Samples collected in 2001 analyzed by STL Chromalab. Samples collected in 2003 analyzed by STL San Francisco.
(b) TPHd = Total extractable petroleum hydrocarbons quantified as diesel (TPHd) using EPA Method 8015M.
(c) µg/l = micrograms per liter.
(d) Selected groundwater samples analyzed using a silica gel cleanup step prior to analysis.
(e) TPHmo = Total extractable petroleum hydrocarbons, quantified as motor oil (TPHmo) using EPA Method 8015M.
(f) RBSL = Risk Based Screening Levels from Application of Risk-Based Screening Levels and Decision Making to Sites with Impacted Soil and Groundwater (RWQCB 2001). Groundwater IS NOT a current or potential source of drinking water.
(g) NA = not analyzed. Samples not analyzed using this method.
(h) Laboratory analytical report notes that "hydrocarbon reported does not match the pattern of our diesel standard".
(i) Laboratory analytical report notes that "hydrocarbon reported is in the late diesel range, and does not match our diesel standard".
(j) Laboratory analytical report notes that "reporting limits raised due to reduced sample size".

Table 5: Groundwater Sample Analytical Results – Dissolved Metals

Boring Name	Sample ID	Sample Date	Concentration, mg/l[a] Anti-mony	Arsenic	Barium	Beryl-lium	Cad-mium	Chro-mium	Cobalt	Copper	Lead	Mercury	Molyb-denum	Nickel	Selen-ium	Silver	Thal-lium	Vana-dium	Zinc
	MCL[b]		0.006	0.05	1	0.004	0.005	0.05	-[c]	1.3	0.015	0.002	-	0.1	0.05	-	0.002	-	-
	RBSL[d]		0.030	0.036	0.0039	0.0051	0.0011	0.180	0.003	0.0031	0.0032	1.2E-05	0.240	0.0082	0.005	0.00012	0.040	0.019	0.023
KB-27	KB-27-W-12	02/04/03	0.0076	0.025	0.38	<0.005	<0.002	<0.005	0.015	<0.005	<0.005	<0.0002	0.025	0.19	0.019	<0.005	0.0097	0.0058	<0.010
KB-28	KB-28-W-12	02/04/03	0.013	0.088	0.19	<0.005	<0.002	0.0076	0.0058	<0.005	<0.005	<0.0002	0.015	0.024	0.02	<0.005	0.0059	0.015	0.020
KB-29	KB-29-W-8	02/04/03	0.0096	0.034	0.065	<0.005	<0.002	<0.005	<0.005	<0.005	<0.005	<0.0002	0.011	<0.005	0.022	<0.005	<0.005	0.0089	<0.010
KB-30	KB-30-W-12	02/04/03	0.0092	0.021	0.079	<0.005	<0.002	<0.005	<0.005	0.0057	<0.005	<0.0002	0.058	0.016	0.011	<0.005	<0.005	0.011	<0.010

(a) Samples analyzed by STL San Francisco for 17 CAM metals using EPA Method 3010A/3050B/6010B. Concentrations reported in units of milligrams per liter (mg/l). Samples were filtered in the field using a 0.45-micron in-line filter.
(b) MCL = primary maximum contaminant level from the California Code of Regulations (CCR) Section 64431. For copper and lead, the MCL identified is the state action level from CCR Section 64672.
(c) "-" indicates that MCL has not been identified. Applies to cobalt, molybdenum, silver, vanadium and zinc.
(d) RBSL = Risk Based Screening Levels from Application of Risk-Based Screening Levels and Decision Making to Sites with Impacted Soil and Groundwater (RWQCB 2001). Groundwater IS NOT a current or potential source of drinking water.

Aquatic Habitat Goal > GW not drinking H2O source

Table 6: Post-Excavation Confirmation Soil Samples – Extractable Petroleum Hydrocarbons and pH in Vicinity of Boring KB-7[a]

Sample ID	Sample Depth (feet bgs)[b]	Sample Date	TPHd (mg/kg)[c][d]	TPHmo (mg/kg)	pH
RBSL[e]			500	1,000	
"7" CONF-1	1	03/03/03	4.5	<50	7.6
"7" CONF-2	1	03/03/03	61	680	7.8
"7" CONF-3	1	03/03/03	98	790	7.9
"7" CONF-4	1	03/03/03	2.2	<50	7.9
"7" CONF-5	2	03/03/03	1.6	<50	7.6
"7" CONF-6	2	03/03/03	1.2	<50	7.5

(a) Samples analyzed by STL San Francisco for extractable petroleum hydrocarbons using EPA Method 8015M and pH using EPA Method 9045C.
(b) Approximate depth below ground surface in feet.
(c) Concentrations of hydrocarbons reported in units of milligrams per kilogram (mg/kg).
(d) Laboratory analytical report notes that "hydrocarbon reported does not match the pattern of our diesel standard".
(e) RBSL = Risk Based Screening Levels from Application of Risk-Based Screening Levels and Decision Making to Sites with Impacted Soil and Groundwater, Interim Final (RWQCB 2001). Commercial/industrial land use and groundwater IS NOT a current or potential source of drinking water.

Table 7: Post-Excavation Confirmation Soil Samples – Metals in Vicinity of Boring KB-7

Sample ID	Sample Depth (feet bgs)[b]	Sample Date	Anti-mony	Ar-senic	Barium	Beryl-lium	Cad-mium	Chro-mium	Cobalt	Cop-per	Lead	Mer-cury	Molyb-denum	Nickel	Selen-lum	Silver	Thal-lium	Vana-dium	Zinc
RBSL – Resid[c]			6.3	0.39	750	4.0	1.7	13	40	225	200	4.7	40	150	10	20	1.0	110	600
RBSL – Ind/Comm[c]			40	2.7	1500	8.0	12	13	80	225	750	10	40	150	10	40	29	200	600
Background[d]			5.2-7.1	9.3-31.0	NR[e]	0.8-1.1	1.5-3.3	59.0-142.2	NR	40.9-99.7	8.9-21.5	0.3-0.6	NR	69.7-144.3	4.7-7.0	1.5-2.2	8.7-42.5	NR	84.7-135.9
"7" CONF-1	1	03/03/03	<2.0	4.0	72	<0.50	1.6	20	6.9	15	9.2	0.15	<1.0	23	<2.0	<1.0	<1.0	28	30
"7" CONF-2	1	03/03/03	<2.0	4.0	73	<0.50	2.1	47	7.6	35	44	1.2	<1.0	39	<2.0	<1.0	<1.0	30	100
"7" CONF-3	1	03/03/03	<2.0	5.4	62	<0.50	2.5	20	6.6	26	29	0.14	<1.0	17	<2.0	<1.0	<1.0	31	140
"7" CONF-4	1	03/03/03	<2.0	2.6	78	<0.50	1.8	19	6.9	15	7.5	0.055	<1.0	27	<2.0	<1.0	<1.0	27	38
"7" CONF-5	2	03/03/03	<2.0	3.1	55	<0.50	1.3	34	7.3	9.2	14	0.065	<1.0	47	<2.0	<1.0	<1.0	26	27
"7" CONF-6	2	03/03/03	<2.0	3.6	37	<0.50	1.3	36	7.1	9.3	8.3	0.055	<1.0	47	<2.0	<1.0	<1.0	26	26

(a) Samples analyzed by STL San Francisco for metals using EPA Method 3010A/3050B/6010B. Mercury analyzed using EPA Method 7471A. Concentrations reported in units of milligrams per kilogram (mg/kg).
(b) Approximate depth below ground surface in feet.
(c) RBSL = Risk Based Screening Levels for Surface Soil from Application of Risk-Based Screening Levels and Decision Making to Sites with Impacted Soil and Groundwater, Interim Final (RWQCB 2001). Groundwater IS NOT a current or potential source of drinking water. Values presented for Residential and Industrial/Commercial land use scenarios.
(d) Range of background values from City of Oakland Survey of Background Metal Concentration Studies. Does not include data presented for specific sites in San Leandro and Union City.
(e) NR = not reported.

Table 8: Post-Excavation Confirmation Soil Samples – Vicinity of Boring KB-11

Sample ID	Sample Date	Depth (feet bgs)[a]	Mercury (mg/kg)[b][c]	pH[d]
RBSL-Resid[e]			4.7	
RBSL-Ind/Comm[e]			10	
Background[f]			0.3-0.6	
"11" CONF-1	03/03/03	0.25	1.4	8.1
"11" CONF-2[g]	03/03/03	0.25	4.9 Resub	8.6
"11" CONF-3	03/03/03	0.25	2.3	8.4
"11" CONF-4	03/03/03	1	0.19	8.3
"11" CONF-5[g]	03/03/03	1	4.2	8.7
"11" CONF-6	03/03/03	1	0.082	8.1
"11" CONF-2-A[h]	04/15/03	0.25	2.5	9.3
"11" CONF-5-A[h]	04/15/03	1.5	0.092	8.3

(a) Approximate depth below ground surface in feet.
(b) Samples analyzed by STL San Francisco using EPA Method 7471A.
(c) mg/kg = milligrams per kilogram.
(d) Samples analyzed by STL San Francisco using EPA Method 9045C.
(e) RBSL = Risk Based Screening Levels for Surface Soil. From Application of Risk-Based Screening Levels and Decision Making to Sites with Impacted Soil and Groundwater, Interim Final (RWQCB 2001). Groundwater is not a current or potential source of drinking water. Values presented for Residential and Industrial/Commercial land use scenarios.
(f) Range of background values from City of Oakland Survey of Background Metal Concentration Studies. Does not include data presented for specific sites in San Leandro and Union City.
(g) Based upon results of initial post-excavation samples, the excavation was expanded laterally at location of sample "11" Conf-2 and deeper at location of sample "11" Conf-5 on 15 April 2003, therefore data from this sample does not represent final post-excavation conditions.
(h) Samples collected following additional excavation of soil from locations of previous samples "11" Conf-2 and "11" Conf-5.

Table 9: Post-Excavation Confirmation Soil Samples – Extractable Petroleum Hydrocarbons in Vicinity of Boring KB-13[a]

Sample ID	Sample Depth (feet bgs)[b]	Sample Date	TPHd (mg/kg)[c][d]	TPHmo (mg/kg)
RBSL[e]			500	1,000
"13" CONF-1	0.5	03/03/03	12	160
"13" CONF-2	0.5	03/03/03	53	680
"13" CONF-3	0.5	03/03/03	75	710
"13" CONF-4[f]	0.5	03/03/03	190	2,000
"13" CONF-5	0.5	03/03/03	52	560
"13" CONF-6	0.5	03/03/03	81	760
"13" CONF-4A[g]	1	04/15/03	1,200	8,400

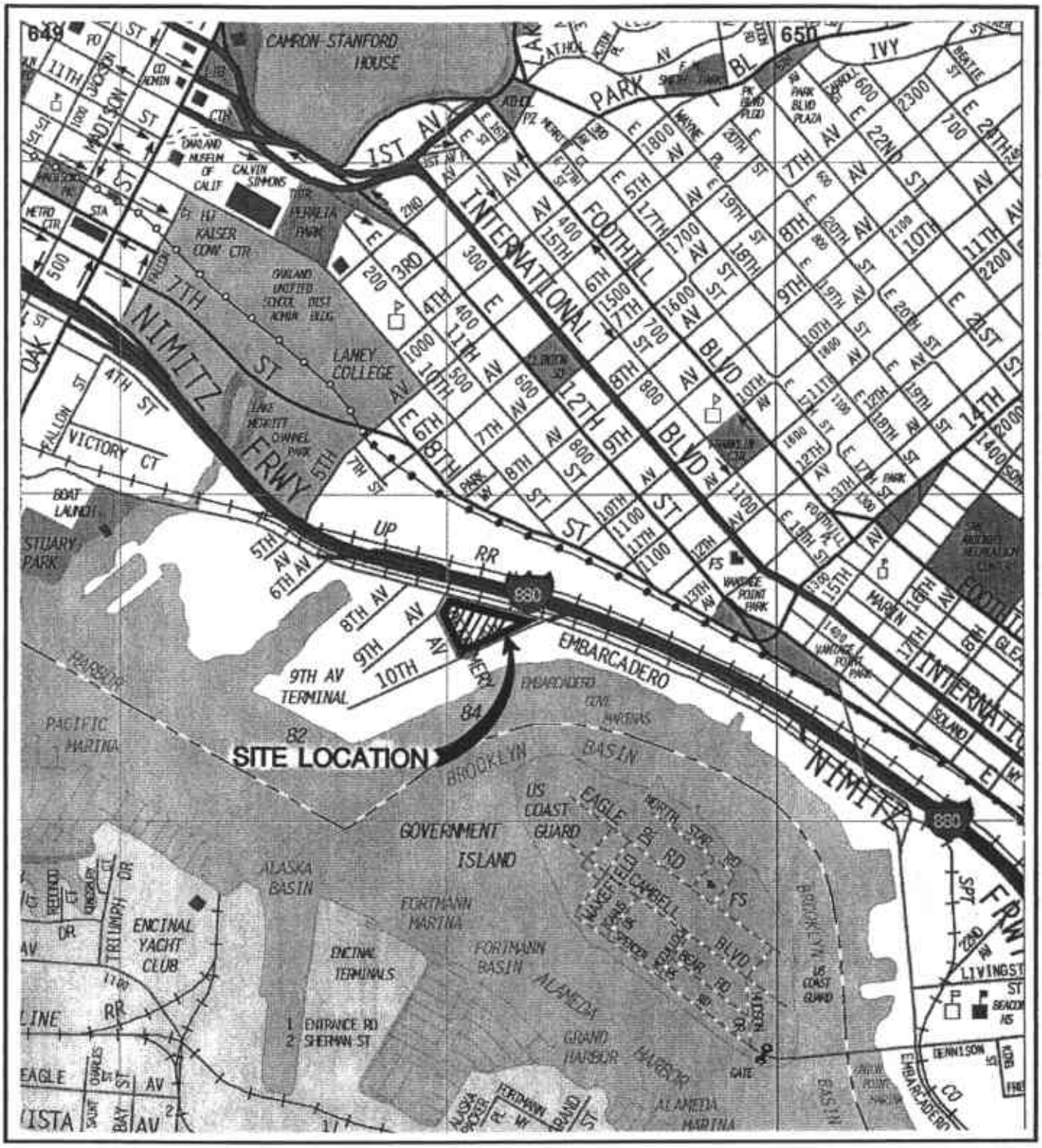
(a) Samples analyzed by STL San Francisco for extractable petroleum hydrocarbons using EPA Method 8015M.
(b) Approximate depth below ground surface in feet.
(c) Concentrations reported in units of milligrams per kilogram (mg/kg).
(d) Laboratory analytical report notes that "hydrocarbon reported does not match the pattern of our diesel standard".
(e) RBSL = Risk Based Screening Levels from Application of Risk-Based Screening Levels and Decision Making to Sites with Impacted Soil and Groundwater, Interim Final (RWQCB 2001). Commercial/industrial land use and groundwater IS NOT a current or potential source of drinking water.
(f) Based upon analytical results from this sample, the excavation was subsequently deepened at this location, so this sample does not represent final post-excavation conditions.
(g) Sample collected following deepening of excavation at location of sample "13" Conf-4.

Table 10: Post-Excavation Confirmation Soil Samples – Metals in Vicinity of Boring KB-13

Sample ID	Sample Depth (feet bgs)[b]	Sample Date	Concentration, mg/l[a] Anti-mony	Arsenic	Barium	Beryl-lium	Cad-mium	Chro-mium	Cobalt	Copper	Lead	Mer-cury	Molyb-denum	Nickel	Selen-ium	Silver	Thallium	Vanadium	Zinc
RBSL – Resid[c]			6.3	0.39	750	4.0	1.7	13	40	225	200	4.7	40	150	10	20	1.0	110	600
RBSL – Ind/Comm[c]			40	2.7	1500	8.0	12	13	80	225	750	10	40	150	10	40	29	200	600
Background[d]			5.2-7.1	9.3-31.0	NR[e]	0.8-1.1	1.5-3.3	59.0-142.2	NR	40.9-99.7	8.9-21.5	0.3-0.6	NR	69.7-144.3	4.7-7.0	1.5-2.2	8.7-42.5	NR	84.7-135.9
"13" CONF-1	0.5	03/03/03	<2.0	2.6	49	<0.50	1.6	23	6.4	15	9.5	0.11	<1.0	31	<2.0	<1.0	<1.0	26	34
"13" CONF-2	0.5	03/03/03	<2.0	5.3	33	<0.50	1.4	25	5.5	14	11	<0.05	1.0	26	<2.0	<1.0	<1.0	24	81
"13" CONF-3	0.5	03/03/03	<2.0	2.2	39	<0.50	1.5	20	5.5	15	7.9	0.071	<1.0	24	<2.0	<1.0	<1.0	23	33
"13" CONF-4	0.5	03/03/03	<2.0	1.9	20	<0.50	0.86	24	3.5	4.5	5.3	<0.05	<1.0	26	<2.0	<1.0	<1.0	20	16
"13" CONF-5	0.5	03/03/03	<2.0	2.1	60	<0.50	2.5	27	6.1	21	9.2	0.080	<1.0	25	<2.0	<1.0	<1.0	30	96
"13" CONF-6	0.5	03/03/03	<2.0	1.3	46	<0.50	1.5	28	5.4	12	12	<0.05	<1.0	26	<2.0	<1.0	<1.0	23	88
"13" CONF-4-A	1.0	04/15/03	<2.0	1.3	28	<0.50	0.65	22	3.7	7.2	4.8	0.081	<1.0	27	<2.0	<1.0	<1.0	14	17

(a) Samples analyzed by STL San Francisco for metals using EPA Method 3010A/3050B/6010B. Mercury analyzed using EPA Method 7471A. Concentrations reported in units of milligrams per kilogram (mg/kg).
(b) Approximate depth below ground surface in feet.
(c) RBSL = Risk Based Screening Levels for Surface Soil from Application of Risk-Based Screening Levels and Decision Making to Sites with Impacted Soil and Groundwater, Interim Final (RWQCB 2001). Groundwater IS NOT a current or potential source of drinking water. Values presented for Residential and Industrial/Commercial land use scenarios.
(d) Range of background values from City of Oakland Survey of Background Metal Concentration Studies. Does not include data presented for specific sites in San Leandro and Union City.
(e) NR = not reported

Figures



BASE MAP: **THE THOMAS GUIDE DIGITAL EDITION, 1999 BAY AREA**

N

0 500 1000

SCALE IN FEET

Kennedy/Jenks Consultants

PRAXAIR, INC.
901 EMBARCADERO, OAKLAND, CALIFORNIA

SITE LOCATION MAP

K/J 000128.00
MAY 2003

Figure 1

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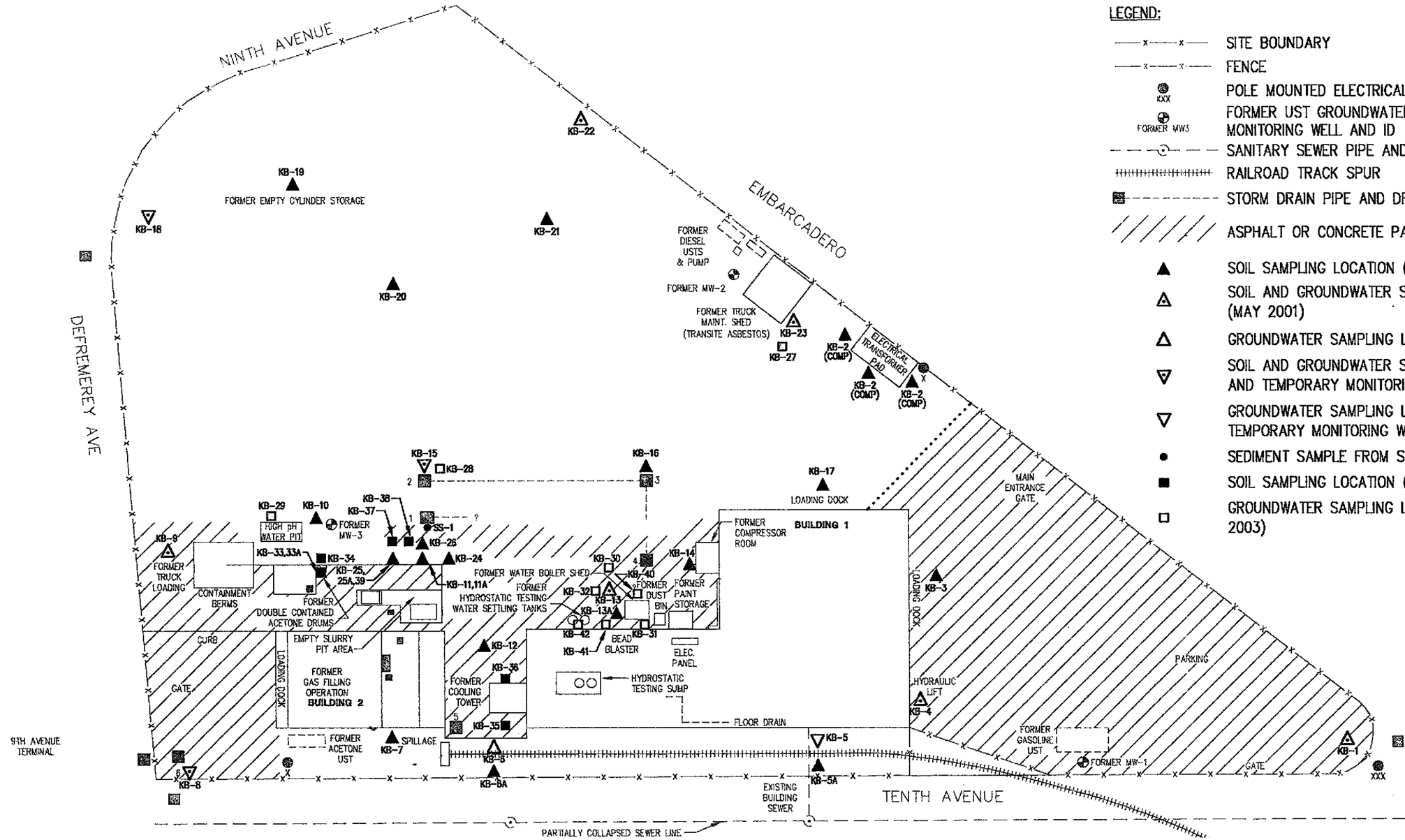


LEGEND:

- SITE BOUNDARY
- FENCE
- XXX — POLE MOUNTED ELECTRICAL TRANSFORMER(S)
- FORMER MW3 — FORMER UST GROUNDWATER MONITORING WELL AND ID
- SANITARY SEWER PIPE AND MAINTENANCE HOLE
- RAILROAD TRACK SPUR
- STORM DRAIN PIPE AND DROP INLET
- ASPHALT OR CONCRETE PAVED AREAS
- ▲ SOIL SAMPLING LOCATION (MAY 2001, JUNE 2002)
- ◬ SOIL AND GROUNDWATER SAMPLING LOCATION (MAY 2001)
- △ GROUNDWATER SAMPLING LOCATION (MAY 2001)
- ▽ SOIL AND GROUNDWATER SAMPLING LOCATION AND TEMPORARY MONITORING WELL (MAY 2001)
- ▽ GROUNDWATER SAMPLING LOCATION AND TEMPORARY MONITORING WELL (MAY 2001)
- ● SEDIMENT SAMPLE FROM STORM DRAIN (MAY 2001)
- ■ SOIL SAMPLING LOCATION (FEBRUARY 2003)
- □ GROUNDWATER SAMPLING LOCATION (FEBRUARY 2003)

N

NOT TO SCALE

Kennedy/Jenks Consultants

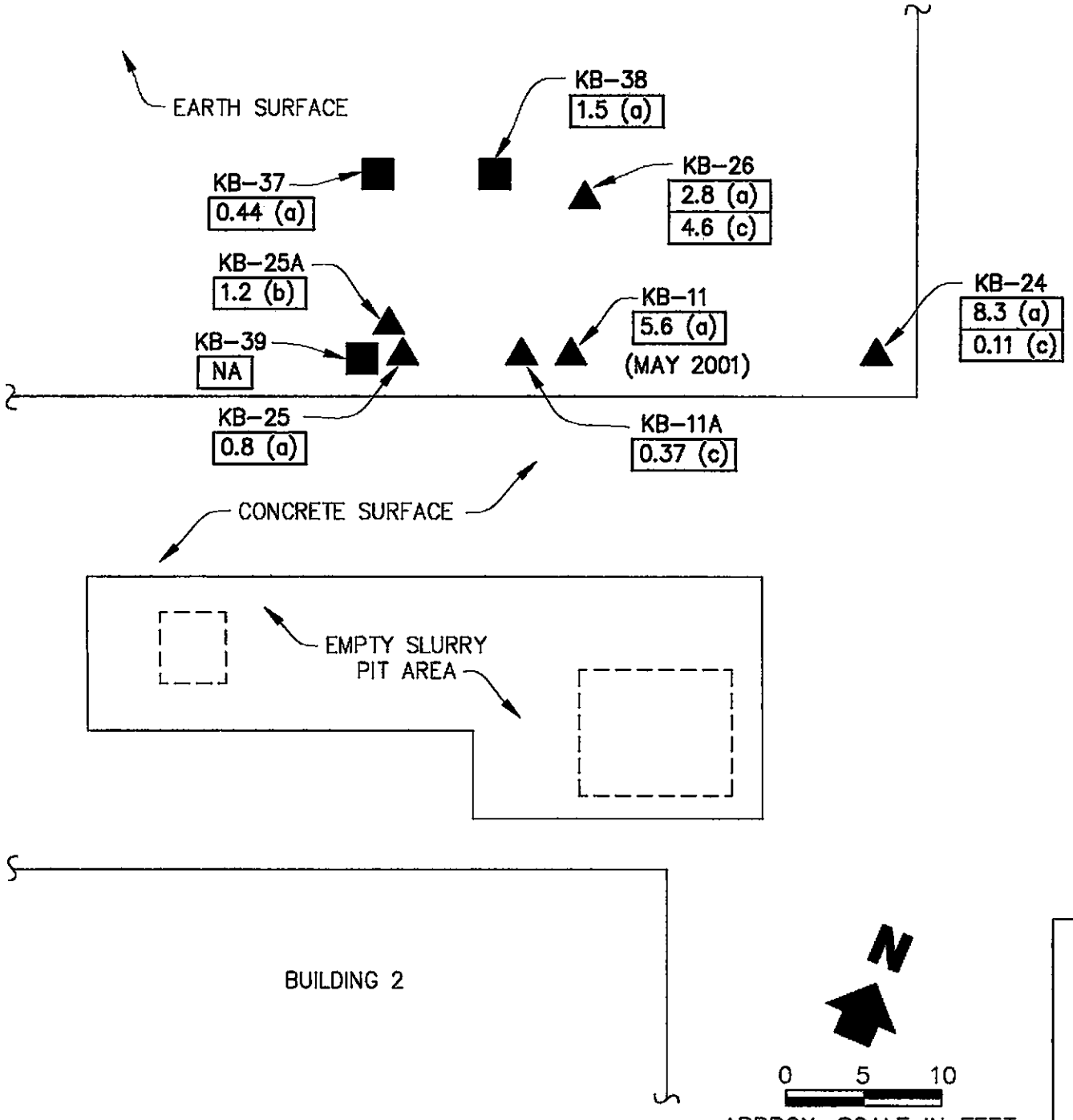
PRAXAIR, INC.
901 EMBARCADERO, OAKLAND, CALIFORNIA

SOIL AND GROUNDWATER SAMPLING LOCATIONS

K/J 000128.00
MAY 2003

Figure 2

N:\2000.ieb\000128.00\Wor03F2.dwg



LEGEND

KB-26 ▲	SOIL SAMPLE LOCATION (JUNE 2002)
KB-38 ■	SOIL SAMPLE LOCATION (FEBRUARY 2003)
8.3	MERCURY CONCENTRATION IN mg/kg
(a)	SURFACE SAMPLE
(b)	0.5 FEET BELOW GROUND SURFACE
(c)	1-1.5 FEET BELOW GROUND SURFACE
NA	NOT ANALYZED

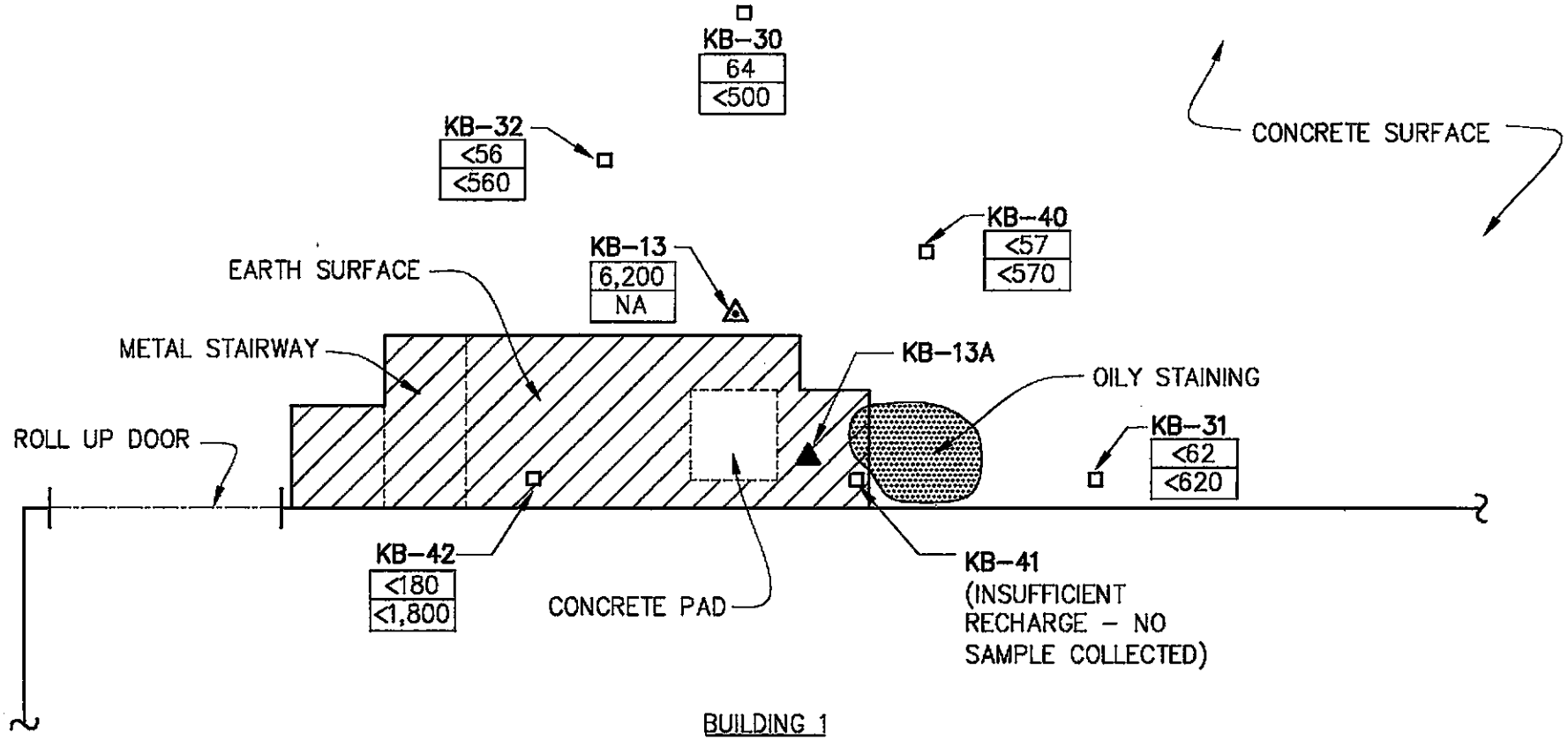
Kennedy/Jenks Consultants

PRAXAIR, INC.
901 EMBARCADERO, OAKLAND, CALIFORNIA

SOIL SAMPLES IN THE BORING KB-11 AREA

K/J 000128.00
MAY 2003

Figure 3



LEGEND

▲ KB-13A	SOIL SAMPLE LOCATION (MAY 2001)
◬ KB-13	SOIL AND GROUNDWATER SAMPLING LOCATION (MAY 2001)
□ KB-42	GROUNDWATER SAMPLING LOCATION (FEBRUARY 2003)
64 / <500	CONCENTRATION OF TPHd IN ug/l / CONCENTRATION OF TPHmo IN ug/l
NA	NOT ANALYZED

NOTE:

SILICA GEL CLEANUP PERFORMED BEFORE ANALYSIS.

N

0 5 10

APPROX. SCALE IN FEET

Kennedy/Jenks Consultants

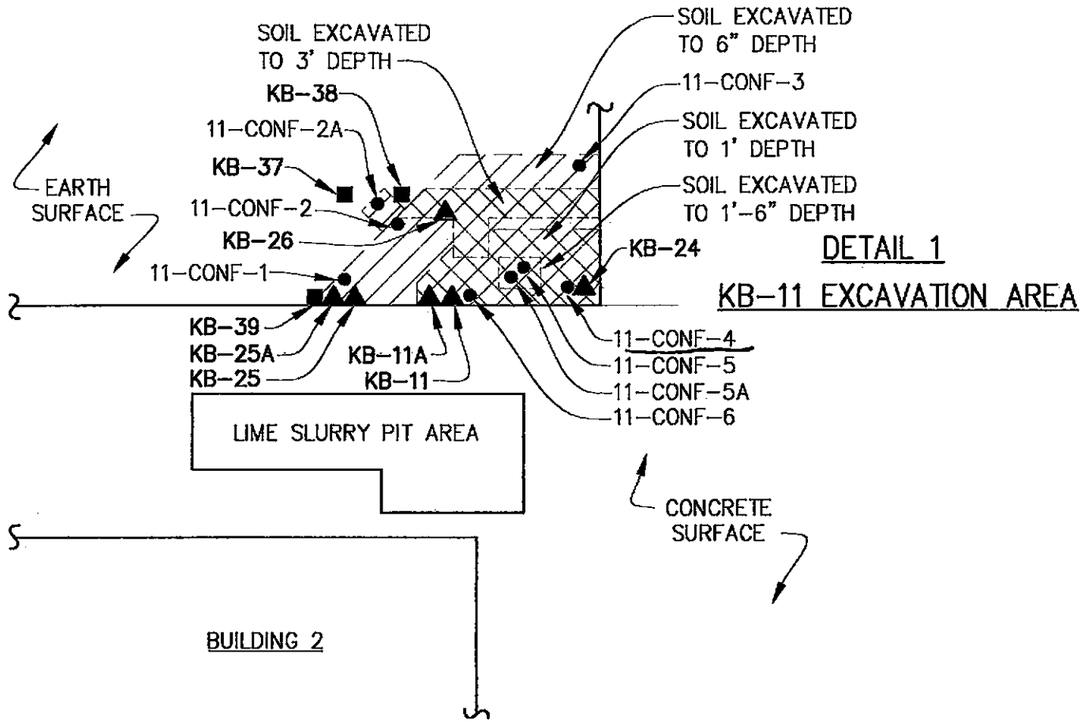
PRAXAIR, INC.
901 EMBARCADERO, OAKLAND, CALIFORNIA

SOIL AND GROUNDWATER SAMPLES IN THE BORING KB-13 AREA

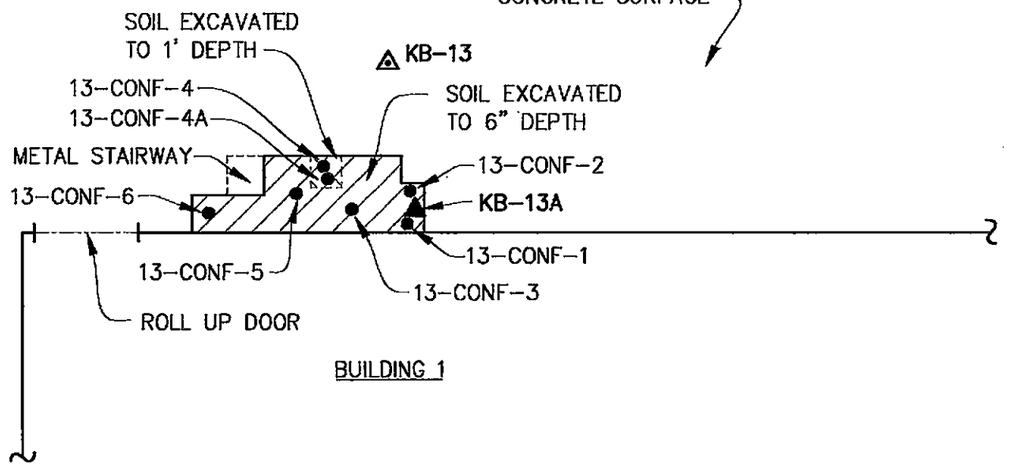
K/J 000128.00
MAY 2003

Figure 4

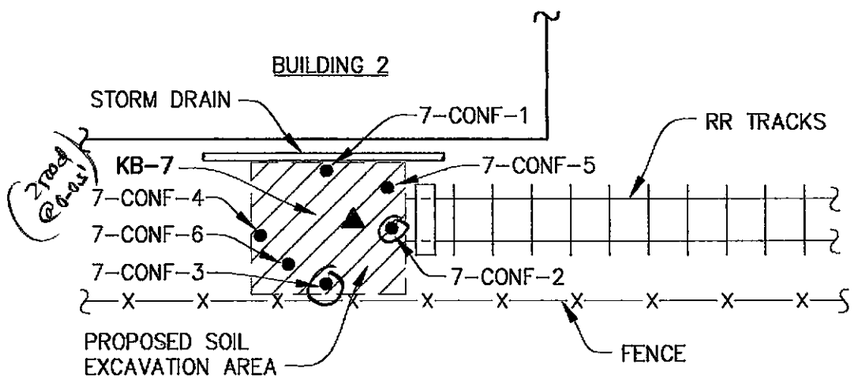
FILE: N:\2000.lsb\000128.00\Mav03F4.dwg



DETAIL 1
KB-11 EXCAVATION AREA



DETAIL 2
KB-13A EXCAVATION AREA



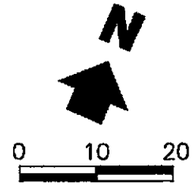
DETAIL 3
KB-7 EXCAVATION AREA

LEGEND

KB-26 — SOIL BORING

EXCAVATION AREA

POST-EXCAVATION SOIL CONFIRMATION SAMPLE



APPROX. SCALE IN FEET

SCALE OF EACH DETAIL AREA

Kennedy/Jenks Consultants

PRAXAIR, INC.
901 EMBARCADERO, OAKLAND, CALIFORNIA

SOIL EXCAVATION AREAS AND CONFIRMATION SAMPLING LOCATIONS

K/J 000128.00
MAY 2003

Figure 5

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Appendix A

Soil Boring Logs and Drilling Permit

Boring Log

Kennedy/Jenks Consultants

BORING LOCATION: Near Former Truck Maintenance Shed	Boring Name: KB-27
DRILLING COMPANY: TEG Northern California	DRILLER: B. Rhoades
	Project Name: Praxair, Inc.
DRILLING METHOD(S): StrataProbe	DRILL BIT(S) SIZE: 2-inches
	Project Number: 000128.00
ISOLATION CASING: n/a	FROM n/a TO n/a FT.
BLANK CASING: 3/4-inch PVC (Temporary)	FROM 0 TO 7 FT.
SLOTTED CASING: 3/4-inch PVC 0.010-in. slots (Temporary)	FROM 7 TO 12 FT.
SIZE AND TYPE OF FILTER PACK: n/a	FROM n/a TO n/a FT.
SEAL: n/a	FROM n/a TO n/a FT.
GROUT: Neat Cement	FROM 0 TO 12 FT.
ELEVATION AND DATUM: n/a	TOTAL DEPTH: 12.0 ft. bgs
DATE STARTED: 2/4/03	DATE COMPLETED: 2/4/03
STATIC WATER ELEVATION: n/a	
LOGGED BY: M. McLeod	
SAMPLING METHODS: Continuous	WELL COMPLETION: ☐ SURFACE HOUSING ☐ STAND PIPE n/a FT.

SAMPLES Type & No.	Recovery (Feet)	Penetr. Resist. Blows/6"	Drill Depth (Feet)	BACKFILL DETAILS	USCS Log	Lithology	Color	SAMPLE DESCRIPTION and DRILLING REMARKS
	1.7				SM		10YR 7/2 10YR 5/8	**SILTY SAND (SM)** LIGHT GRAY AND YELLOWISH BROWN, ~80% FINE-GRAINED SAND, ~20% SILT, LOOSE, MOIST, NO ODOR
					CL		5GY 5/1	**CLAY TO SANDY CLAY (CL)** GREENISH GRAY, UP TO 80% FINE-GRAINED SAND IN THIN LAYERS BUT ~20% FINE-GRAINED SAND OVERALL, SOFT (PP ~ 1 TSF), MEDIUM PLASTICITY
	3.1		5	Neat Cement ▽	SM			**SILTY SAND (SM)** GREENISH GRAY, ~80% FINE-GRAINED SAND, ~20% SILT, LOOSE, WET
	3.5		10		CL/SM		2.5Y 7/3 2.5Y 5/6 10YR 3/2	MINGLED LAYERS OF **CLAY AND SILTY SAND (CL/SM)** PALE YELLOW WITH STREAKS OF VERY DARK GRAYISH BROWN AND LIGHT OLIVE BROWN, CLAY IS SOFT (PP ~1 TSF), MEDIUM PLASTICITY, SILTY SAND IS LOOSE, UP TO ~10% COARSE-GRAINED SAND, WET

NOTES

1. ALL CONTACTS APPROPROXIMATE
2. BGS: BELOW GROUND SURFACE
3. SOIL CLASSIFIED IN ACCORDANCE WITH THE UNIFIED SOIL CLASSIFICATION SYSTEM, ASTM D-2488-93
4. COLOR DESIGNATION IN ACCORDANCE WITH THE MUNSELL SOIL COLOR CHARTS (KOLLMORGEN INSTRUMENTS CORPORATION, 1990)
5. PP = POCKET PENETROMETER; TSF = TONS PER SQUARE FOOT

BORING & WELL CONSTRUCTION FEB03000126.GPJ KENNEDY JENKS.GDT 5/2/03

F-40.1
(6-87) (3-88) (8-90)

Boring Log

Kennedy/Jenks Consultants

BORING LOCATION	Near Drain 2 (KB-15 Area)		
DRILLING COMPANY	TEG Northern California	DRILLER	B. Rhoades
DRILLING METHOD(S)	StrataProbe	DRILL BIT(S) SIZE	2-Inches
ISOLATION CASING	n/a	FROM n/a TO n/a FT.	
BLANK CASING	3/4-inch PVC (Temporary)	FROM 0 TO 7 FT.	
SLOTTED CASING	3/4-inch PVC 0.010-in. slots (Temporary)	FROM 7 TO 12 FT.	
SIZE AND TYPE OF FILTER PACK	n/a	FROM n/a TO n/a FT.	
SEAL	n/a	FROM n/a TO n/a FT.	
GROUT	Neat Cement	FROM 0 TO 12 FT.	

Boring Name	KB-28
Project Name	Praxair, Inc.
Project Number	000128.00
ELEVATION AND DATUM: n/a	TOTAL DEPTH: 12.0 ft. bgs
DATE STARTED: 2/4/03	DATE COMPLETED: 2/4/03
STATIC WATER ELEVATION: n/a	
LOGGED BY: M. McLeod	
SAMPLING METHODS: Continuous	WELL COMPLETION: ☐ SURFACE HOUSING ☐ STAND PIPE n/a FT.

SAMPLES Type & No.	Recovery (Feet)	Penetr. Resist. Blows/6"	Drill Depth (Feet)	BACKFILL DETAILS	USCS Log	Lithology	Color	SAMPLE DESCRIPTION and DRILLING REMARKS
	2.4				SP-SM		7.5YR 4/6	**POORLY GRADED TO SILTY SAND (SP-SM)** STRONG BROWN, ~90 - 50% FINE-GRAINED SAND (MAINLY >75%), LOOSE, DRY TO 2.5 FT, MOIST BELOW
							5GY 6/1	COLOR CHANGES TO GREENISH GRAY
	2.9		5	Neat Cement				MINGLED LAYERS OF **CLAY AND SILTY SAND (CL/SM)** DARK BLUISH GRAY, ~70% CLAY, ~30% SILTY SAND (~80% FINE-GRAINED SAND, ~20% SILT), CLAY IS SOFT (PP ~ 2 TSF), MEDIUM PLASTICITY, WET, NO ODOR
					CL/SM		5B 4/1	
	3.5		10					SCATTERED 0.5-FOOT THICK LAYERS OF SILTY SAND; CLAY STIFFNESS RANGES TO VERY SOFT
							N4	SLIGHT "TPH" OR H2S ODOR DETECTABLE, COLOR DARKENS TO DARK GRAY; SCATTERED SHELL FRAGMENTS

NOTES

1. ALL CONTACTS APPROPROXIMATE
2. BGS: BELOW GROUND SURFACE
3. SOIL CLASSIFIED IN ACCORDANCE WITH THE UNIFIED SOIL CLASSIFICATION SYSTEM, ASTM D-2488-93
4. COLOR DESIGNATION IN ACCORDANCE WITH THE MUNSELL SOIL COLOR CHARTS (KOLLMORGEN INSTRUMENTS CORPORATION, 1990)
5. PP = POCKET PENETROMETER; TSF = TONS PER SQUARE FOOT

BORING & WELL CONSTRUCTION FEB030001 28.GPJ KENNEDY JENKS.GDT 5/2/03

F-40.1
(6-67) (3-68) (8-90)

Boring Log

Kennedy/Jenks Consultants

BORING LOCATION: Near High pH Water Pit		Boring Name: KB-29	
DRILLING COMPANY: TEG Northern California	DRILLER: B. Rhoades	Project Name: Praxair, Inc.	
DRILLING METHOD(S): StrataProbe	DRILL BIT(S) SIZE: 2-inches	Project Number: 000128.00	
ISOLATION CASING: n/a	FROM n/a TO n/a FT.	ELEVATION AND DATUM: n/a	TOTAL DEPTH: 8.0 ft. bgs
BLANK CASING: 3/4-inch PVC (Temporary)	FROM 0 TO 3 FT.	DATE STARTED: 2/4/03	DATE COMPLETED: 2/4/03
SLOTTED CASING: 3/4-inch PVC 0.010-in. slots (Temporary)	FROM 3 TO 8 FT.	STATIC WATER ELEVATION: n/a	
SIZE AND TYPE OF FILTER PACK: n/a	FROM n/a TO n/a FT.	LOGGED BY: M. McLeod	
SEAL: n/a	FROM n/a TO n/a FT.	SAMPLING METHODS: Continuous	WELL COMPLETION: ☐ SURFACE HOUSING ☐ STAND PIPE n/a FT.
GROUT: Neat Cement	FROM 0 TO 8 FT.		

SAMPLES Type & No.	SAMPLES Recovery (Feet)	SAMPLES Penetr Resist Blows/6"	Drill Depth (Feet)	BACKFILL DETAILS	USCS Log	Lithology	Color	SAMPLE DESCRIPTION and DRILLING REMARKS
	2.5				SM		2.5Y 5/3	**SILTY SAND (SM)** LIGHT OLIVE BROWN, SCATTERED TRACE COARSE-GRAINED SAND, ~70% FINE-GRAINED SAND, ~30% SILTY AND CLAY, DRY, NO ODOR
							2.5Y 5/6	COLOR CHANGES TO DARK GREENISH GRAY, WET, "SWAMPY" ODOR
	3.2		5	Neat Cement			5GY 4/1	CLAYEY MATERIAL AT TIP OF SAMPLER

NOTES

1. ALL CONTACTS APPROPROXIMATE
2. BGS: BELOW GROUND SURFACE
3. SOIL CLASSIFIED IN ACCORDANCE WITH THE UNIFIED SOIL CLASSIFICATION SYSTEM, ASTM D-2488-93
4. COLOR DESIGNATION IN ACCORDANCE WITH THE MUNSELL SOIL COLOR CHARTS (KOLLMORGEN INSTRUMENTS CORPORATION, 1990)
5. PP = POCKET PENETROMETER; TSF = TONS PER SQUARE FOOT

BORING & WELL CONSTRUCTION FEB030000128.GPJ KENNEDY JENKS.GDT 5/2/03

F-40.1
(6-87) (3-88) (8-90)

Boring Log

Kennedy/Jenks Consultants

BORING LOCATION	Near Drain 4, Appx. 30 feet North of Building 1		
DRILLING COMPANY	TEG Northern California	DRILLER	B. Rhoades
DRILLING METHOD(S)	StrataProbe	DRILL BIT(S) SIZE	2-Inches
ISOLATION CASING	n/a	FROM n/a TO n/a FT.	
BLANK CASING	3/4-inch PVC (Temporary)	FROM 0 TO 7 FT.	
SLOTTED CASING	3/4-inch PVC 0.010-in. slots (Temporary)	FROM 7 TO 12 FT.	
SIZE AND TYPE OF FILTER PACK	n/a	FROM n/a TO n/a FT.	
SEAL	n/a	FROM n/a TO n/a FT.	
GROUT	Neat Cement	FROM 0 TO 12 FT.	

Boring Name	KB-30
Project Name	Praxair, Inc.
Project Number	000128.00
ELEVATION AND DATUM: n/a	TOTAL DEPTH: 12.0 ft. bgs
DATE STARTED: 2/4/03	DATE COMPLETED: 2/4/03
STATIC WATER ELEVATION: n/a	
LOGGED BY: M. McLeod	
SAMPLING METHODS: Continuous	WELL COMPLETION: ☐ SURFACE HOUSING ☐ STAND PIPE n/a FT.

SAMPLES Type & No.	Recovery (Feet)	Penetr. Resist. Blows/6"	Drill Depth (Feet)	BACKFILL DETAILS	USCS Log	Lithology	Color	SAMPLE DESCRIPTION and DRILLING REMARKS
								ASPHALT AND BASE ROCK
	3.0				SM		10YR 4/6	**SILTY SAND (SM)** DARK YELLOWISH BROWN, TRACE GRAVEL, SCATTERED COARSE-GRAINED SAND, ~70% FINE-GRAINED SAND, ~25% SILT, MOIST TO DRY, NO ODOR
								CLAY (CL) DARK GREENISH GRAY, SOFT (PP ~ 1-2 TSF), MEDIUM PLASTICITY OVERALL; SCATTERED ZONES WITH LOW PLASTICITY
							5GY 4/1	
			5					
	2.5			Neat Cement	CL			COLOR LIGHTENS TO GREENISH GRAY, SCATTERED COARSE-GRAINED SAND AND SHELL FRAGMENTS
							5GY 6/1	
	2.5		10		CL			**CLAY TO SANDY CLAY (CL)** GREENISH GRAY, SOFT OVERALL, LOW TO MEDIUM PLASTICITY, MOIST TO WET, NO ODOR

NOTES

1. ALL CONTACTS APPROPROXIMATE
2. BGS: BELOW GROUND SURFACE
3. SOIL CLASSIFIED IN ACCORDANCE WITH THE UNIFIED SOIL CLASSIFICATION SYSTEM, ASTM D-2488-93
4. COLOR DESIGNATION IN ACCORDANCE WITH THE MUNSELL SOIL COLOR CHARTS (KOLLMORGEN INSTRUMENTS CORPORATION, 1990)
5. PP = POCKET PENETROMETER; TSF = TONS PER SQUARE FOOT

BORING & WELL CONSTRUCTION FEB030000128.GPJ KENNEDY JENKS.GDT 5/2/03

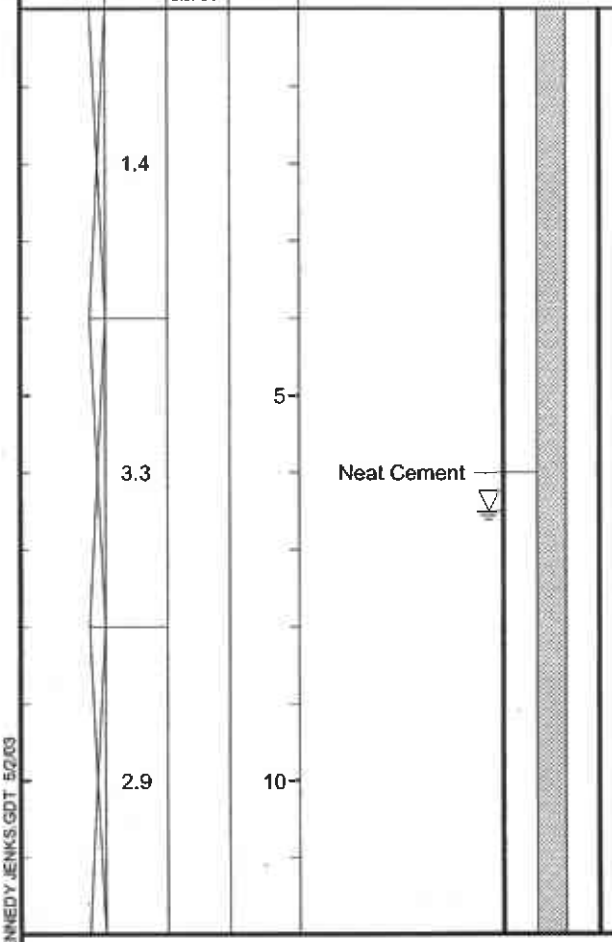
F-40.1
(6-87) (3-88) (8-90)

Boring Log

Kennedy/Jenks Consultants

BORING LOCATION	Near Former Water Boiler Shed, Adjacent to Building 1
DRILLING COMPANY	TEG Northern California
DRILLER	B. Rhoades
DRILLING METHOD(S)	StrataProbe
DRILL BIT(S) SIZE	2-Inches
ISOLATION CASING	n/a
ISOLATION CASING FROM / TO / FT.	n/a / n/a
BLANK CASING	3/4-inch PVC (Temporary)
BLANK CASING FROM / TO / FT.	0 / 7
SLOTTED CASING	3/4-inch PVC 0.010-in. slots (Temporary)
SLOTTED CASING FROM / TO / FT.	7 / 12
SIZE AND TYPE OF FILTER PACK	n/a
SIZE AND TYPE OF FILTER PACK FROM / TO / FT.	n/a / n/a
SEAL	n/a
SEAL FROM / TO / FT.	n/a / n/a
GROUT	Neat Cement
GROUT FROM / TO / FT.	0 / 12

Boring Name	KB-31
Project Name	Praxair, Inc.
Project Number	000128.00
ELEVATION AND DATUM	n/a
TOTAL DEPTH	12.0 ft. bgs
DATE STARTED	2/4/03
DATE COMPLETED	2/4/03
STATIC WATER ELEVATION	n/a
LOGGED BY	M. McLeod
SAMPLING METHODS	Continuous
WELL COMPLETION	☐ SURFACE HOUSING ☐ STAND PIPE n/a FT.



Type & No.	Recovery (Feet)	Penetr. Resist. Blows/6"	Drill Depth (Feet)	BACKFILL DETAILS	USCS Log	Lithology	Color	SAMPLE DESCRIPTION and DRILLING REMARKS
								CONCRETE AND BASE ROCK
	1.4				SP		2.5Y 6/4	**POORLY GRADED SAND (SP)** LIGHT YELLOWISH BROWN OVERALL, ~95% FINE-GRAINED SAND AND MEDIUM-GRAINED SAND, ~5% SILT, LOOSE, MOIST, NO ODOR
	3.3		5	Neat Cement	CL		5GY 5/1	**CLAY (CL)** GREENISH GRAY, SOFT (PP ~ 1 TSF), LOW PLASTICITY, MOIST
	2.9		10		CL		2.5Y 6/2 5Y 6/2	**CLAY TO SANDY CLAY (CL)** GREENISH GRAY, SOFT TO MEDIUM STIFF ((PP ~ 2 TSF), MEDIUM TO LOW PLASTICITY, SANDY LAYERS ARE WET COLOR GRADES TO LIGHT BROWNINSH GRAY AND LIGHT OLIVE GRAY

NOTES

1. ALL CONTACTS APPROPROXIMATE
2. BGS: BELOW GROUND SURFACE
3. SOIL CLASSIFIED IN ACCORDANCE WITH THE UNIFIED SOIL CLASSIFICATION SYSTEM, ASTM D-2488-93
4. COLOR DESIGNATION IN ACCORDANCE WITH THE MUNSELL SOIL COLOR CHARTS (KOLLMORGEN INSTRUMENTS CORPORATION, 1990)
5. PP = POCKET PENETROMETER; TSF = TONS PER SQUARE FOOT

BORING & WELL CONSTRUCTION FEB030000128.GPJ KENNEDY JENKS.GDT 5/2/03

F-40.1
(5-87) (3-88) (8-90)

Boring Log

Kennedy/Jenks Consultants

BORING LOCATION	Appx. 22 Feet North of Building 1, West of Drain 4
DRILLING COMPANY	TEG Northern California
DRILLER	B. Rhoades
DRILLING METHOD(S)	StrataProbe
DRILL BIT(S) SIZE	2-inches
ISOLATION CASING	n/a — FROM n/a TO n/a FT.
BLANK CASING	3/4-inch PVC (Temporary) — FROM 0 TO 3 FT.
SLOTTED CASING	3/4-inch PVC 0.010-in. slots (Temporary) — FROM 3 TO 8 FT.
SIZE AND TYPE OF FILTER PACK	n/a — FROM n/a TO n/a FT.
SEAL	n/a — FROM n/a TO n/a FT.
GROUT	Neat Cement — FROM 0 TO 8 FT.

Boring Name	KB-32
Project Name	Praxair, Inc.
Project Number	000128.00
ELEVATION AND DATUM	n/a
TOTAL DEPTH	8.0 ft. bgs
DATE STARTED	2/4/03
DATE COMPLETED	2/4/03
STATIC WATER ELEVATION	n/a
LOGGED BY	M. McLeod
SAMPLING METHODS	Continuous
WELL COMPLETION	☐ SURFACE HOUSING ☐ STAND PIPE n/a FT.

SAMPLES Type & No.	Recovery (Feet)	Penetr. Resist. Blows/6"	Drill Depth (Feet)	BACKFILL DETAILS	USCS Log	Lithology	Color	SAMPLE DESCRIPTION and DRILLING REMARKS
								CONCRETE AND BASE ROCK
	2.9				CL			**SANDY CLAY (CL)** GREENISH GRAY, ~50% (?) FINE-GRAINED SAND, ~50% CLAY, SOFT, LOW TO NO PLASTICITY
					CL			**SANDY CLAY (CL)** GREENISH GRAY, SOFT, MEDIUM PLASTICITY, MOIST
				Neat Cement			5GY 5/1	MIXED **CLAY AND SILTY SAND (CL/SM)** GREENISH GRAY OVERALL, ~60% CLAY LAYERS, ~40% SILTY SAND LAYERS, CLAY IS SOFT WITH LOW PLASTICITY, SILTY SAND IS ~70% FINE-GRAINED SAND, ~30% SILT, LOOSE, WET
	2.7		5		CL/SM			ABUNDANT SHELL FRAGMENTS

NOTES

1. ALL CONTACTS APPROPROXIMATE
2. BGS: BELOW GROUND SURFACE
3. SOIL CLASSIFIED IN ACCORDANCE WITH THE UNIFIED SOIL CLASSIFICATION SYSTEM, ASTM D-2488-93
4. COLOR DESIGNATION IN ACCORDANCE WITH THE MUNSELL SOIL COLOR CHARTS (KOLLMORGEN INSTRUMENTS CORPORATION, 1990)
5. PP = POCKET PENETROMETER; TSF = TONS PER SQUARE FOOT

BORING & WELL CONSTRUCTION FEB03000128.GPJ KENNEDY JENKS.GDT 5/2/03

F-40.1
(6-87) (3-88) (8-90)

Boring Log

Kennedy/Jenks Consultants

BORING LOCATION	Former Acetone Storage Area, on Concrete		
DRILLING COMPANY	TEG Northern California	DRILLER	B. Rhoades
DRILLING METHOD(S)	StrataProbe	DRILL BIT(S) SIZE	2-Inches
ISOLATION CASING	n/a	FROM n/a TO n/a FT.	
BLANK CASING	n/a	FROM n/a TO n/a FT.	
SLOTTED CASING	n/a	FROM n/a TO n/a FT.	
SIZE AND TYPE OF FILTER PACK	n/a	FROM n/a TO n/a FT.	
SEAL	n/a	FROM n/a TO n/a FT.	
GROUT	Neat Cement	FROM 0 TO 3 FT.	

Boring Name	KB-33
Project Name	Praxair, Inc.
Project Number	000128.00
ELEVATION AND DATUM: n/a	TOTAL DEPTH: 3.0 ft. bgs
DATE STARTED: 2/4/03	DATE COMPLETED: 2/4/03
STATIC WATER ELEVATION: n/a	
LOGGED BY: M. McLeod	
SAMPLING METHODS: Continuous	WELL COMPLETION: ☐ SURFACE HOUSING ☐ STAND PIPE n/a FT.

SAMPLES Type & No.	Recovery (Feet)	Penetr. Resist. Blows/6"	Drill Depth (Feet)	BACKFILL DETAILS	USCS Log	Lithology	Color	SAMPLE DESCRIPTION and DRILLING REMARKS
KB-33-S-0.9/1.4 KB-33-S-1.4/1.9	1.5			Neat Cement	SM		10YR 4/4	**CONCRETE AND BASE ROCK** **SILTY SAND (SM)** DARK YELLOWISH BROWN, ~80% FINE-GRAINED SAND, ~10% SILT, MOIST, NO ODOR

NOTES

1. ALL CONTACTS APPROPROXIMATE
2. BGS: BELOW GROUND SURFACE
3. SOIL CLASSIFIED IN ACCORDANCE WITH THE UNIFIED SOIL CLASSIFICATION SYSTEM, ASTM D-2488-93
4. COLOR DESIGNATION IN ACCORDANCE WITH THE MUNSELL SOIL COLOR CHARTS (KOLLMORGEN INSTRUMENTS CORPORATION, 1990)
5. PP = POCKET PENETROMETER; TSF = TONS PER SQUARE FOOT

BORING & WELL CONSTRUCTION FEB03000128.GPJ KENNEDY JENKS.GDT 5/2/03

F-40.1
(6-87) (3-88) (8-90)

Boring Log

Kennedy/Jenks Consultants

BORING LOCATION	Former Acetone Storage Area, on Concrete
DRILLING COMPANY	TEG Northern California
DRILLER	B. Rhoades
DRILLING METHOD(S)	StrataProbe
DRILL BIT(S) SIZE	2-Inches
ISOLATION CASING	n/a — FROM n/a TO n/a FT.
BLANK CASING	n/a — FROM n/a TO n/a FT.
SLOTTED CASING	n/a — FROM n/a TO n/a FT.
SIZE AND TYPE OF FILTER PACK	n/a — FROM n/a TO n/a FT.
SEAL	n/a — FROM n/a TO n/a FT.
GROUT	Neat Cement — FROM 0 TO 4 FT.

Boring Name	KB-33A
Project Name	Praxair, Inc.
Project Number	000128.00
ELEVATION AND DATUM	n/a
TOTAL DEPTH	4.0 ft. bgs
DATE STARTED	2/5/03
DATE COMPLETED	2/5/03
STATIC WATER ELEVATION	n/a
LOGGED BY	M. McLeod
SAMPLING METHODS	Continuous
WELL COMPLETION	☐ SURFACE HOUSING ☐ STAND PIPE n/a FT.

SAMPLES Type & No.	Recovery (Feet)	Penetr. Resist. Blows/6"	Drill Depth (Feet)	BACKFILL DETAILS	USCS Log	Lithology	Color	SAMPLE DESCRIPTION and DRILLING REMARKS
								CONCRETE AND BASE ROCK
KB-33A-S-0.5/1.0	2.0			Neat Cement	SM		10YR 6/4	**SILTY SAND (SM)** LIGHT YELLOWISH BROWN, ~80% FINE-GRAINED SAND, ~20% SILT, LOOSE, MOIST, NO ODOR
KB-33A-S-2.0/2.5					CL		10YR 5/4	**CLAY (CL)** YELLOWISH BROWN OVERALL, MEDIUM STIFF TO SOFT (PP ~ 2 TSF), MEDIUM PLASTICITY, MOIST

NOTES

1. ALL CONTACTS APPROPROXIMATE
2. BGS: BELOW GROUND SURFACE
3. SOIL CLASSIFIED IN ACCORDANCE WITH THE UNIFIED SOIL CLASSIFICATION SYSTEM, ASTM D-2488-93
4. COLOR DESIGNATION IN ACCORDANCE WITH THE MUNSELL SOIL COLOR CHARTS (KOLLMORGEN INSTRUMENTS CORPORATION, 1990)
5. PP = POCKET PENETROMETER; TSF = TONS PER SQUARE FOOT

BORING & WELL CONSTRUCTION FEB030000128.GPJ KENNEDY JENKS.GDT 5/2/03

F-40.1
(6-87) (3-88) (8-90)

Boring Log

Kennedy/Jenks Consultants

BORING LOCATION: Former Acetone Storage Area, Adjacent to Concrete Slab	Boring Name: KB-34
DRILLING COMPANY: TEG Northern California	DRILLER: B. Rhoades
	Project Name: Praxair, Inc.
DRILLING METHOD(S): StrataProbe	DRILL BIT(S) SIZE: 24inches
	Project Number: 000128.00
ISOLATION CASING: n/a — FROM n/a TO n/a FT.	ELEVATION AND DATUM: n/a
BLANK CASING: n/a — FROM n/a TO n/a FT.	TOTAL DEPTH: 4.0 ft. bgs
SLOTTED CASING: n/a — FROM n/a TO n/a FT.	DATE STARTED: 2/4/03
SIZE AND TYPE OF FILTER PACK: n/a — FROM n/a TO n/a FT.	DATE COMPLETED: 2/4/03
SEAL: n/a — FROM n/a TO n/a FT.	STATIC WATER ELEVATION: n/a
GROUT: Neat Cement — FROM 0 TO 4 FT.	LOGGED BY: M. McLeod
	SAMPLING METHODS: Continuous
	WELL COMPLETION: ☐ SURFACE HOUSING ☐ STAND PIPE n/a FT.

SAMPLES Type & No.	Recovery (Feet)	Penetr. Resist. Blows/6"	Drill Depth (Feet)	BACKFILL DETAILS	USCS Log	Lithology	Color	SAMPLE DESCRIPTION and DRILLING REMARKS
KB-34-S-0.0/0.5	2.5			Neat Cement	SW		10YR 4/6	**WELL-GRADED SAND (SW)** DARK YELLOWISH BROWN, ~20% COARSE-GRAINED SAND, ~30% MEDIUM-GRAINED SAND, ~50% FINE-GRAINED SAND, DRY, NO ODOR
KB-34-S-2.0/2.5					CL		10YR 5/3 2.5Y N5	**CLAY (CL)** BROWN AND GRAY, SOFT, LOW TO MEDIUM PLASTICITY, MOIST

NOTES

1. ALL CONTACTS APPROPROXIMATE
2. BGS: BELOW GROUND SURFACE
3. SOIL CLASSIFIED IN ACCORDANCE WITH THE UNIFIED SOIL CLASSIFICATION SYSTEM, ASTM D-2488-93
4. COLOR DESIGNATION IN ACCORDANCE WITH THE MUNSELL SOIL COLOR CHARTS (KOLLMORGEN INSTRUMENTS CORPORATION, 1990)
5. PP = POCKET PENETROMETER; TSF = TONS PER SQUARE FOOT

BORING & WELL CONSTRUCTION FEB03000128.GPJ KENNEDY JENKS.GDT 5/2/03

F-40.1
(6-87) (3-88) (8-90)

Boring Log

Kennedy/Jenks Consultants

BORING LOCATION: South Side of Cooling Tower		Boring Name: KB-35	
DRILLING COMPANY: TEG Northern California	DRILLER: B. Rhoades	Project Name: Praxair, Inc.	
DRILLING METHOD(S): StrataProbe	DRILL BIT(S) SIZE: 2-Inches	Project Number: 000128.00	
ISOLATION CASING: n/a	FROM n/a TO n/a FT.	ELEVATION AND DATUM: n/a	TOTAL DEPTH: 6.0 ft. bgs
BLANK CASING: n/a	FROM n/a TO n/a FT.	DATE STARTED: 2/5/03	DATE COMPLETED: 2/5/03
SLOTTED CASING: n/a	FROM n/a TO n/a FT.	STATIC WATER ELEVATION: n/a	
SIZE AND TYPE OF FILTER PACK: n/a	FROM n/a TO n/a FT.	LOGGED BY: M. McLeod	
SEAL: n/a	FROM n/a TO n/a FT.	SAMPLING METHODS: Continuous	WELL COMPLETION: ☐ SURFACE HOUSING ☐ STAND PIPE n/a FT.
GROUT: Neat Cement	FROM 0 TO 6 FT.		

SAMPLES Type & No.	Recovery (Feet)	Penetr. Resist. Blows/6"	Drill Depth (Feet)	BACKFILL DETAILS	USCS Log	Lithology	Color	SAMPLE DESCRIPTION and DRILLING REMARKS
								CONCRETE AND BASE ROCK
	2.3			Neat Cement	SM		2.5Y 5/3 7.5YR 5/8	**SILTY SAND (SM)** LIGHT OLIVE BROWN AND STRONG BROWN, ~20% COARSE-GRAINED SAND, ~50% FINE-GRAINED SAND, ~30% SILT, DRY, NO ODOR
KB-35-S-5.0/5.5	2.0		5		SP		2.5Y 5/4	**POORLY GRADED SAND (SP)** LIGHT OLIVE BROWN, ~95% FINE-GRAINED SAND, ~5% SILT, LOOSE, DRY, NO ODOR, NO STAINING

NOTES

1. ALL CONTACTS APPROPROXIMATE
2. BGS: BELOW GROUND SURFACE
3. SOIL CLASSIFIED IN ACCORDANCE WITH THE UNIFIED SOIL CLASSIFICATION SYSTEM, ASTM D-2488-93
4. COLOR DESIGNATION IN ACCORDANCE WITH THE MUNSELL SOIL COLOR CHARTS (KOLLMORGEN INSTRUMENTS CORPORATION, 1990)
5. PP = POCKET PENETROMETER; TSF = TONS PER SQUARE FOOT

BORING & WELL CONSTRUCTION FEB030001 28.GPJ KENNEDY JENKS.GDT 5/2/03

Boring Log

Kennedy/Jenks Consultants

BORING LOCATION: North Side of Cooling Tower		Boring Name: KB-36	
DRILLING COMPANY: TEG Northern California	DRILLER: B. Rhoades	Project Name: Praxair, Inc.	
DRILLING METHOD(S): StrataProbe	DRILL BIT(S) SIZE: 2-inches	Project Number: 000128.00	
ISOLATION CASING: n/a	FROM n/a TO n/a FT.	ELEVATION AND DATUM: n/a	TOTAL DEPTH: 6.0 ft. bgs
BLANK CASING: n/a	FROM n/a TO n/a FT.	DATE STARTED: 2/5/03	DATE COMPLETED: 2/5/03
SLOTTED CASING: n/a	FROM n/a TO n/a FT.	STATIC WATER ELEVATION: n/a	
SIZE AND TYPE OF FILTER PACK: n/a	FROM n/a TO n/a FT.	LOGGED BY: M. McLeod	
SEAL: n/a	FROM n/a TO n/a FT.	SAMPLING METHODS: Continuous	WELL COMPLETION: ☐ SURFACE HOUSING ☐ STAND PIPE n/a FT.
GROUT: Neat Cement	FROM 0 TO 6 FT.		

SAMPLES Type & No.	Recovery (Feet)	Penetr. Resist. Blows/6"	Drill Depth (Feet)	BACKFILL DETAILS	USCS Log	Lithology	Color	SAMPLE DESCRIPTION and DRILLING REMARKS
								CONCRETE AND BASE ROCK
	2.3			Neat Cement	SM		2.5Y 5/4 10YR 6/6	**SILTY SAND (SM)** LIGHT OLIVE BROWN, BROWNISH YELLOW, ~20% COARSE-GRAINED SAND, ~50% FINE-GRAINED SAND, ~30% SILT, DENSE, DRY, NO ODOR, NO STAINING
KB-36-S-4.5/5.0	2.0		5		SP		2.5Y 6/3	**POORLY GRADED SAND (SP)** LIGHT YELLOWISH BROWN, ~95% FINE-GRAINED SAND, ~5% SILT, LOOSE, DRY, NO ODOR, NO STAINING
								6 FT., WET AT TIP

NOTES

1. ALL CONTACTS APPROPROXIMATE
2. BGS: BELOW GROUND SURFACE
3. SOIL CLASSIFIED IN ACCORDANCE WITH THE UNIFIED SOIL CLASSIFICATION SYSTEM, ASTM D-2488-93
4. COLOR DESIGNATION IN ACCORDANCE WITH THE MUNSELL SOIL COLOR CHARTS (KOLLMORGEN INSTRUMENTS CORPORATION, 1990)
5. PP = POCKET PENETROMETER; TSF = TONS PER SQUARE FOOT
6. SET TEMPORARY PVC SCREEN; GROUNDWATER DOES NOT RECHARGE INTO CASING AND NO GROUNDWATER SAMPLE COLLECTED

BORING & WELL CONSTRUCTION FEB030000128.GPJ KENNEDY JENKS.GDT 5/2/03

Boring Log

Kennedy/Jenks Consultants

BORING LOCATION	Appx. 17 Feet North of Building 1, East of Drain 4
DRILLING COMPANY	TEG Northern California
DRILLER	B. Rhoades
DRILLING METHOD(S)	StrataProbe
DRILL BIT(S) SIZE	2-Inches
ISOLATION CASING	n/a — FROM n/a TO n/a FT.
BLANK CASING	3/4-inch PVC (Temporary) — FROM 0 TO 11 FT.
SLOTTED CASING	3/4-inch PVC 0.010-in. slots (Temporary) — FROM 11 TO 16 FT.
SIZE AND TYPE OF FILTER PACK	n/a — FROM n/a TO n/a FT.
SEAL	n/a — FROM n/a TO n/a FT.
GROUT	Neat Cement — FROM 0 TO 16 FT.

Boring Name	KB-40
Project Name	Praxair, Inc.
Project Number	000128.00
ELEVATION AND DATUM: n/a	TOTAL DEPTH: 16.0 ft. bgs
DATE STARTED: 2/5/03	DATE COMPLETED: 2/5/03
STATIC WATER ELEVATION: n/a	
LOGGED BY: M. McLeod	
SAMPLING METHODS: Continuous	WELL COMPLETION: ☐ SURFACE HOUSING ☐ STAND PIPE n/a FT.

SAMPLES Type & No	Recovery (Feet)	Penetr. Resist. Blows/6"	Drill Depth (Feet)	BACKFILL DETAILS	USCS Log	Lithology	Color	SAMPLE DESCRIPTION and DRILLING REMARKS
	0.5							**CONCRETE AND BASE ROCK**
								CONCRETE AND METAL DEBRIS CORED WITH CONCRETE CORING DEVICE TO 3.5 FT. BGS
	2.9		5				5G 4/1	**CLAY (CL)** DARK GREENISH GRAY, SOFT, LOW TO MEDIUM PLASTICITY, WET (FROM CORING), NO ODOR
								SHELL FRAGMENTS PRESENT
				Neat Cement				COLOR CHANGES TO GREENISH GRAY WITH LIGHT GRAY
	2.9		10	▽	CL		5GY 6/1	THIN, WET, SANDY ZONE
							5Y 7/2	THIN BLACK (5Y 2.5/1) ZONE, NO ODOR
	3.3		15					TRACE SCATTERED THIN, WET, SANDY CLAY ZONES
							10YR 5/8	COLOR INCLUDES YELLOWISH BROWN, STIFFNESS IS MEDIUM (PP ~ 2.5 TSF)

NOTES

1. ALL CONTACTS APPROPROXIMATE
2. BGS: BELOW GROUND SURFACE
3. SOIL CLASSIFIED IN ACCORDANCE WITH THE

BORING & WELL CONSTRUCTION FEB030001 28.GPJ KENNEDY JENKS.GDT 5/2/03

F-40.1
(6-87) (3-88) (8-90)

Project Name Praxair, Inc. Project Number 000128.00 Boring Name KB-40

SAMPLES Type & No.	SAMPLES Recovery (Feet)	SAMPLES Penetr. Resist. Blows/ft"	Drill Depth (Feet)	BACKFILL DETAILS	USCS Log	Lithology	Color	SAMPLE DESCRIPTION and DRILLING REMARKS
								UNIFIED SOIL CLASSIFICATION SYSTEM, ASTM D-2488-93 4. COLOR DESIGNATION IN ACCORDANCE WITH THE MUNSELL SOIL COLOR CHARTS (KOLLMORGEN INSTRUMENTS CORPORATION, 1990) 5. PP = POCKET PENETROMETER; TSF = TONS PER SQUARE FOOT

Boring Log

Kennedy/Jenks Consultants

BORING LOCATION: Between Former Water Boiler Shed and Bead Blaster, Adj. to Bldg. 1	Boring Name: KB-41
DRILLING COMPANY: TEG Northern California	DRILLER: B. Rhoades — Project Name: Praxair, Inc.
DRILLING METHOD(S): StrataProbe	DRILL BIT(S) SIZE: 2-inches — Project Number: 000128.00
ISOLATION CASING: n/a	FROM n/a TO n/a FT.
BLANK CASING: 3/4-inch PVC (Temporary)	FROM 0 TO 7 FT.
SLOTTED CASING: 3/4-inch PVC 0.010-in. slots (Temporary)	FROM 7 TO 12 FT.
SIZE AND TYPE OF FILTER PACK: n/a	FROM n/a TO n/a FT.
SEAL: n/a	FROM n/a TO n/a FT.
GROUT: Neat Cement	FROM 0 TO 12 FT.
ELEVATION AND DATUM: n/a — TOTAL DEPTH: 12.0 ft. bgs	
DATE STARTED: 2/5/03 — DATE COMPLETED: 2/5/03	
STATIC WATER ELEVATION: n/a	
LOGGED BY: M. McLeod	
SAMPLING METHODS: Continuous	WELL COMPLETION: ☐ SURFACE HOUSING ☐ STAND PIPE n/a FT.

SAMPLES Type & No.	Recovery (Feet)	Penetr. Resist. Blows/6"	Drtl Depth (Feet)	BACKFILL DETAILS	USCS Log	Lithology	Color	SAMPLE DESCRIPTION and DRILLING REMARKS
	2.7				SM		10YR 6/4	**SILTY SAND (SM)** LIGHT YELLOWISH BROWN, ~75% FINE-GRAINED SAND, ~25% SILT, LOOSE, MOIST, NO ODOR
							2.5Y 6/3	UPPERMOST 0.3 FT HAS ABUNDANT COARSE-GRAINED SAND AND FINE GRAVEL, HYDROCARBON STAINING, NO ODOR
					CL		5GY 6/1	**CLAY (CL)** LIGHT YELLOWISH BROWN, SOFT (PP ~ 1 TSF), MEDIUM PLASTICITY COLOR GRADES TO GREENISH GRAY
	3.2		5	Neat Cement			2.5Y 6/4	4.5 - 6 FT. COLOR INCLUDES LIGHT YELLOWISH BROWN
					SM		5GY 5/1	**SILTY SAND (SM)** DARK GREENISH GRAY, ~70-80% FINE-GRAINED SAND, ~20% SILT, LOOSE, WET, ABUNDANT SHELL FRAGMENTS
								CLAY (CL) LIGHT YELLOWISH BROWN, SOFT (PP ~ 1 TSF), MEDIUM PLASTICITY
							5GY 6/1	
							2.5Y 6/4	
	2.9		10		CL			
							10YR 8/2	WHITE, STIFF SILT (?) NODULES UP TO ~1/4-INCH DIAMETER

NOTES

1. ALL CONTACTS APPROPROXIMATE
2. BGS: BELOW GROUND SURFACE
3. SOIL CLASSIFIED IN ACCORDANCE WITH THE UNIFIED SOIL CLASSIFICATION SYSTEM, ASTM D-2488-93
4. COLOR DESIGNATION IN ACCORDANCE WITH THE MUNSELL SOIL COLOR CHARTS (KOLLMORGEN INSTRUMENTS CORPORATION, 1990)
5. PP = POCKET PENETROMETER; TSF = TONS PER SQUARE FOOT

BORING & WELL CONSTRUCTION FEB030001 28.GPJ KENNEDY JENKS.GDT 5/2/03

Boring Log

Kennedy/Jenks Consultants

BORING LOCATION: West of Fomer Bead Blaster, Adj. to Bldg. 1	Boring Name: KB-42
DRILLING COMPANY: TEG Northern California	DRILLER: B. Rhoades
	Project Name: Praxair, Inc.
DRILLING METHOD(S): StrataProbe	DRILL BIT(S) SIZE: 2-inches
	Project Number: 000128.00
ISOLATION CASING: n/a	FROM n/a TO n/a FT.
BLANK CASING: 3/4-inch PVC (Temporary)	FROM 0 TO 11 FT.
SLOTTED CASING: 3/4-inch PVC 0.010-in. slots (Temporary)	FROM 11 TO 16 FT.
SIZE AND TYPE OF FILTER PACK: n/a	FROM n/a TO n/a FT.
SEAL: n/a	FROM n/a TO n/a FT.
GROUT: Neat Cement	FROM 0 TO 16 FT.

ELEVATION AND DATUM: n/a	TOTAL DEPTH: 16.0 ft. bgs
DATE STARTED: 2/5/03	DATE COMPLETED: 2/5/03
STATIC WATER ELEVATION: n/a	
LOGGED BY: M. McLeod	
SAMPLING METHODS: Continuous	WELL COMPLETION: ☐ SURFACE HOUSING ☐ STAND PIPE n/a FT.

SAMPLES Type & No.	Recovery (Feet)	Penetr. Resist. Blows/6"	Drill Depth (Feet)	BACKFILL DETAILS	USCS Log	Lithology	Color	SAMPLE DESCRIPTION and DRILLING REMARKS
	1.9		0		SM		7.5YR 5/4	**SILTY SAND (SM)** BROWN, ~20% COARSE-GRAINED SAND AND FINE GRAVEL, ~50% FINE-GRAINED SAND, ~30% SILT, LOOSE, MOIST, NO ODOR
							2.5Y 6/3	**CLAY (CL)** LIGHT YELLOWISH BROWN AND LIGHT GRAY, WITH VERY DARK GRAYISH BROWN SPECKS, SOFT (PP ~ 1 TSF), MEDIUM PLASTICITY, MOIST
							2.5Y 7/2	
	2.8		5				10YR 3/2	
				Neat Cement				LAYER WITH WITH WHITE (10YR 8/2) BRITTLE SILT (?) NODULES UP TO 1/2-IN. DIAMETER
					CL		5GY 5/1	COLOR CHANGES TO GREENISH GRAY
	2.4		10					SCATTERED LAYERS ARE VERY SOFT AND WET
								COLOR CHANGES TO LIGHT GREENISH GRAY
							5GY 7/1	
	3.0		15				2.5Y 7/4	COLOR INCLUDES PALE YELLOW

NOTES

1. ALL CONTACTS APPROPROXIMATE
2. BGS: BELOW GROUND SURFACE
3. SOIL CLASSIFIED IN ACCORDANCE WITH THE

BORING & WELL CONSTRUCTION FEB030001 28.GPJ KENNEDY JENKS.GDT 5/2/03

F-40.1
(6-87) (3-88) (8-90)

Project Name Praxair, Inc. Project Number 000128.00 Boring Name KB-42

SAMPLES			Drill Depth (Feet)	BACKFILL DETAILS	USCS Log	Lithology	Color	SAMPLE DESCRIPTION and DRILLING REMARKS
Type & No.	Recovery (Feet)	Penetr. Resist. Blows/6"						
								UNIFIED SOIL CLASSIFICATION SYSTEM, ASTM D-2488-93 4. COLOR DESIGNATION IN ACCORDANCE WITH THE MUNSELL SOIL COLOR CHARTS (KOLLMORGEN INSTRUMENTS CORPORATION, 1990) 5. PP = POCKET PENETROMETER; TSF = TONS PER SQUARE FOOT

BORING & WELL CONSTRUCTION FEB03000126.GPJ KENNEDY JENKS.GDT 5/2/03

Appendix B

Analytical Data Reports and Chain of Custody Forms – Additional Characterization

SEVERN TRENT STL

Submission#: 2003-02-0120

Kennedy/Jenks-San Francisco

622 Folsom Street
San Francisco, CA 94107-1366
Attn.: Meredith Durant
Project#: 000128.00
Project: Praxair
Site: 901 Embarcadero

February 13, 2003

RECEIVED
FEB 20 2003
KENNEDY/JENKS CONSULTANTS

Dear Meredith,

Attached is our report for your samples received on 02/06/2003 16:16
This report has been reviewed and approved for release. Reproduction of this report is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after 03/23/2003 unless you have requested otherwise.
We appreciate the opportunity to be of service to you. If you have any questions, please call me at (925) 484-1919.
You can also contact me via email. My email address is: vvancil@stl-inc.com

Sincerely,

Vincent Vancil
Project Manager

SEVERN TRENT STL

Submission #: 2003-02-0120

Volatile Organic Compounds by 8260B

Kennedy/Jenks-San Francisco
Attn.: Meredith Durant

622 Folsom Street
San Francisco, CA 94107-1366
Phone: (415) 243-2534 Fax: (415) 896-0999

Project: 000128.00
Praxair

Received: 02/06/2003 16:16

Site: 901 Embarcadero

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
KB-34-S-0.0-0.5	02/04/2003 14:20	Soil	6
KB-34-S-2.0/2.5	02/04/2003 14:20	Soil	7
KB-33A-S-0.5/1.0	02/05/2003 13:20	Soil	21
KB-33A-S-2.0/2.5	02/05/2003 13:20	Soil	22

Volatile Organic Compounds by 8260B

Kennedy/Jenks-San Francisco
Attn.: Meredith Durant

622 Folsom Street
San Francisco, CA 94107-1366
Phone: (415) 243-2534 Fax: (415) 896-0999

Project: 000128.00
Praxair

Received: 02/06/2003 16:16

Site: 901 Embarcadero

Prep(s):	5035	Test(s):	8260B
Sample ID:	KB-34-S-0.0-0.5	Lab ID:	2003-02-0120 - 6
Sampled:	02/04/2003 14:20	Extracted:	2/11/2003 17:49
Matrix:	Soil	QC Batch#:	2003/02/11-01.06

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Acetone	ND	50	ug/Kg	1.00	02/11/2003 17:49	
Surrogates(s)						
4-Bromofluorobenzene	96.5	74-121	%	1.00	02/11/2003 17:49	
1,2-Dichloroethane-d4	111.3	70-121	%	1.00	02/11/2003 17:49	
Toluene-d8	103.6	81-117	%	1.00	02/11/2003 17:49	

Volatile Organic Compounds by 8260B

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Project: 000128.00
Praxair

Received: 02/06/2003 16:16

Site: 901 Embarcadero

Prep(s): 5035
Sample ID: KB-34-S-2.0/2.5
Sampled: 02/04/2003 14:20
Matrix: Soil

Test(s): 8260B
Lab ID: 2003-02-0120 - 7
Extracted: 2/11/2003 18:25
QC Batch#: 2003/02/11-01.06

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Acetone	ND	50	ug/Kg	1.00	02/11/2003 18:25	
Surrogates(s)						
4-Bromofluorobenzene	98.7	74-121	%	1.00	02/11/2003 18:25	
1,2-Dichloroethane-d4	112.5	70-121	%	1.00	02/11/2003 18:25	
Toluene-d8	103.6	81-117	%	1.00	02/11/2003 18:25	

Volatile Organic Compounds by 8260B

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Project: 000128.00
Praxair

Received: 02/06/2003 16:16

Site: 901 Embarcadero

Prep(s):	5035	Test(s):	8260B
Sample ID:	KB-33A-S-0.5/1.0	Lab ID:	2003-02-0120 - 21
Sampled:	02/05/2003 13:20	Extracted:	2/11/2003 19:02
Matrix:	Soil	QC Batch#:	2003/02/11-01.06

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Acetone	ND	50	ug/Kg	1.00	02/11/2003 19:02	
Surrogates(s)						
4-Bromofluorobenzene	97.9	74-121	%	1.00	02/11/2003 19:02	
1,2-Dichloroethane-d4	113.6	70-121	%	1.00	02/11/2003 19:02	
Toluene-d8	102.7	81-117	%	1.00	02/11/2003 19:02	

Volatile Organic Compounds by 8260B

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Project: 000128.00
Praxair

Received: 02/06/2003 16:16

Site: 901 Embarcadero

Prep(s):	5035	Test(s):	8260B
Sample ID:	KB-33A-S-2.0/2.5	Lab ID:	2003-02-0120 - 22
Sampled:	02/05/2003 13:20	Extracted:	2/11/2003 19:38
Matrix:	Soil	QC Batch#:	2003/02/11-01.06

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Acetone	ND	50	ug/Kg	1.00	02/11/2003 19:38	
Surrogates(s)						
4-Bromofluorobenzene	100.2	74-121	%	1.00	02/11/2003 19:38	
1,2-Dichloroethane-d4	115.2	70-121	%	1.00	02/11/2003 19:38	
Toluene-d8	104.9	81-117	%	1.00	02/11/2003 19:38	

Volatile Organic Compounds by 8260B

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Project: 000128.00
Praxair

Received: 02/06/2003 16:16

Site: 901 Embarcadero

Batch QC Report

Prep(s): 5035 | Soil | Test(s): 8260B
Method Blank | **QC Batch # 2003/02/11-01.06**
MB: 2003/02/11-01.06-004 | Date Extracted: 02/11/2003 12:52

Compound	Conc.	RL	Unit	Analyzed	Flag
Acetone	ND	50	ug/Kg	02/11/2003 12:52	
Benzene	ND	5.0	ug/Kg	02/11/2003 12:52	
Chlorobenzene	ND	5.0	ug/Kg	02/11/2003 12:52	
1,1-Dichloroethene	ND	5.0	ug/Kg	02/11/2003 12:52	
Toluene	ND	5.0	ug/Kg	02/11/2003 12:52	
Trichloroethene	ND	5.0	ug/Kg	02/11/2003 12:52	
Surrogates(s)					
4-Bromofluorobenzene	90.0	74-121	%	02/11/2003 12:52	
1,2-Dichloroethane-d4	103.4	70-121	%	02/11/2003 12:52	
Toluene-d8	100.8	81-117	%	02/11/2003 12:52	

Volatile Organic Compounds by 8260B

Kennedy/Jenks-San Francisco
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Project: 000128.00
Praxair

Received: 02/06/2003 16:16

Site: 901 Embarcadero

Batch QC Report

Prep(s): 5035 Test(s): 8260B

Laboratory Control Spike **Soil** **QC Batch # 2003/02/11-01.06**

LCS 2003/02/11-01.06-002 Extracted: 02/11/2003 Analyzed: 02/11/2003 11:39
LCSD 2003/02/11-01.06-003 Extracted: 02/11/2003 Analyzed: 02/11/2003 12:16

Compound	Conc. ug/Kg		Exp.Conc.	Recovery		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Benzene	93.2	94.1	100.0	93.2	94.1	1.0	69-129	20		
Chlorobenzene	83.8	83.6	100.0	83.8	83.6	0.2	61-121	20		
1,1-Dichloroethene	111	114	100.0	111.0	114.0	2.7	65-125	20		
Toluene	92.2	91.7	100.0	92.2	91.7	0.5	70-130	20		
Trichloroethene	91.2	91.0	100.0	91.2	91.0	0.2	74-134	20		
Surrogates(s)										
4-Bromofluorobenzene	450	455	500	90.0	91.0		74-121			
1,2-Dichloroethane-d4	495	496	500	99.0	99.2		70-121			
Toluene-d8	505	502	500	101.0	100.4		81-117			

SEVERN TRENT STL

Submission #: 2003-02-0120

Dissolved CAM 17 Metals

Kennedy/Jenks-San Francisco
Attn.: Meredith Durant

622 Folsom Street
San Francisco, CA 94107-1366
Phone: (415) 243-2534 Fax: (415) 896-0999

Project: 000128.00
Praxair

Received: 02/06/2003 16:16

Site: 901 Embarcadero

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
KB-27-W-12	02/04/2003 10:59	Water	1
KB-28-W-12	02/04/2003 10:55	Water	2
KB-29-W-8	02/04/2003 11:05	Water	3
KB-30-W-12	02/04/2003 15:15	Water	10

Dissolved CAM 17 Metals

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Phone: (415) 243-2534 Fax: (415) 896-0999

Project: 000128.00
Praxair

Received: 02/06/2003 16:16

Site: 901 Embarcadero

Prep(s):	3005A 7470A	Test(s):	6010B 7470A
Sample ID:	KB-27-W-12	Lab ID:	2003-02-0120 - 1
Sampled:	02/04/2003 10:59	Extracted:	2/11/2003 05:05 2/11/2003 05:02
Matrix:	Water	QC Batch#:	2003/02/11-01.16 2003/02/11-02.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Antimony	0.0076	0.0050	mg/L	1.00	02/11/2003 08:12	
Arsenic	0.025	0.0050	mg/L	1.00	02/11/2003 08:12	
Barium	0.38	0.0050	mg/L	1.00	02/11/2003 08:12	
Beryllium	ND	0.0050	mg/L	1.00	02/11/2003 08:12	
Cadmium	ND	0.0020	mg/L	1.00	02/11/2003 08:12	
Chromium	ND	0.0050	mg/L	1.00	02/11/2003 08:12	
Cobalt	0.015	0.0050	mg/L	1.00	02/11/2003 08:12	
Copper	ND	0.0050	mg/L	1.00	02/11/2003 08:12	
Lead	ND	0.0050	mg/L	1.00	02/11/2003 08:12	
Molybdenum	0.025	0.0050	mg/L	1.00	02/11/2003 08:12	
Nickel	0.19	0.0050	mg/L	1.00	02/11/2003 08:12	
Selenium	0.019	0.0050	mg/L	1.00	02/11/2003 08:12	
Silver	ND	0.0050	mg/L	1.00	02/11/2003 08:12	
Thallium	0.0097	0.0050	mg/L	1.00	02/11/2003 08:12	
Vanadium	0.0058	0.0050	mg/L	1.00	02/11/2003 08:12	
Zinc	ND	0.010	mg/L	1.00	02/11/2003 08:12	
Mercury	ND	0.00020	mg/L	1.00	02/11/2003 13:38	

Dissolved CAM 17 Metals

Kennedy/Jenks-San Francisco
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Project: 000128.00
Praxair

Received: 02/06/2003 16:16

Site: 901 Embarcadero

Prep(s):	3005A 7470A	Test(s):	6010B 7470A
Sample ID:	**KB-28-W-12**	Lab ID:	2003-02-0120 - 2
Sampled:	02/04/2003 10:55	Extracted:	2/11/2003 05:05 2/11/2003 05:02
Matrix:	Water	QC Batch#:	2003/02/11-01.16 2003/02/11-02.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Antimony	0.013	0.0050	mg/L	1.00	02/11/2003 08:16	
Arsenic	0.088	0.0050	mg/L	1.00	02/11/2003 08:16	
Barium	0.19	0.0050	mg/L	1.00	02/11/2003 08:16	
Beryllium	ND	0.0050	mg/L	1.00	02/11/2003 08:16	
Cadmium	ND	0.0020	mg/L	1.00	02/11/2003 08:16	
Chromium	0.0076	0.0050	mg/L	1.00	02/11/2003 08:16	
Cobalt	0.0058	0.0050	mg/L	1.00	02/11/2003 08:16	
Copper	ND	0.0050	mg/L	1.00	02/11/2003 08:16	
Lead	ND	0.0050	mg/L	1.00	02/11/2003 08:16	
Molybdenum	0.015	0.0050	mg/L	1.00	02/11/2003 08:16	
Nickel	0.024	0.0050	mg/L	1.00	02/11/2003 08:16	
Selenium	0.020	0.0050	mg/L	1.00	02/11/2003 08:16	
Silver	ND	0.0050	mg/L	1.00	02/11/2003 08:16	
Thallium	0.0059	0.0050	mg/L	1.00	02/11/2003 08:16	
Vanadium	0.015	0.0050	mg/L	1.00	02/11/2003 08:16	
Zinc	0.020	0.010	mg/L	1.00	02/11/2003 08:16	
Mercury	ND	0.00020	mg/L	1.00	02/11/2003 13:39	

Dissolved CAM 17 Metals

Kennedy/Jenks-San Francisco
Attn.: Meredith Durant

622 Folsom Street
San Francisco, CA 94107-1366
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Project: 000128.00
Praxair

Received: 02/06/2003 16:16

Site: 901 Embarcadero

Prep(s):	3005A 7470A	Test(s):	6010B 7470A
Sample ID:	KB-29-W-8	Lab ID:	2003-02-0120 - 3
Sampled:	02/04/2003 11:05	Extracted:	2/11/2003 05:05 2/11/2003 05:02
Matrix:	Water	QC Batch#:	2003/02/11-01.16 2003/02/11-02.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Antimony	0.0096	0.0050	mg/L	1.00	02/11/2003 08:20	
Arsenic	0.034	0.0050	mg/L	1.00	02/11/2003 08:20	
Barium	0.065	0.0050	mg/L	1.00	02/11/2003 08:20	
Beryllium	ND	0.0050	mg/L	1.00	02/11/2003 08:20	
Cadmium	ND	0.0020	mg/L	1.00	02/11/2003 08:20	
Chromium	ND	0.0050	mg/L	1.00	02/11/2003 08:20	
Cobalt	ND	0.0050	mg/L	1.00	02/11/2003 08:20	
Copper	ND	0.0050	mg/L	1.00	02/11/2003 08:20	
Lead	ND	0.0050	mg/L	1.00	02/11/2003 08:20	
Molybdenum	0.011	0.0050	mg/L	1.00	02/11/2003 08:20	
Nickel	ND	0.0050	mg/L	1.00	02/11/2003 08:20	
Selenium	0.022	0.0050	mg/L	1.00	02/11/2003 08:20	
Silver	ND	0.0050	mg/L	1.00	02/11/2003 08:20	
Thallium	ND	0.0050	mg/L	1.00	02/11/2003 08:20	
Vanadium	0.0089	0.0050	mg/L	1.00	02/11/2003 08:20	
Zinc	ND	0.010	mg/L	1.00	02/11/2003 08:20	
Mercury	ND	0.00020	mg/L	1.00	02/11/2003 13:41	

Dissolved CAM 17 Metals

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Project: 000128.00
Praxair

Received: 02/06/2003 16:16

Site: 901 Embarcadero

Prep(s):	3005A 7470A	Test(s):	6010B 7470A
Sample ID:	KB-30-W-12	Lab ID:	2003-02-0120 - 10
Sampled:	02/04/2003 15:15	Extracted:	2/11/2003 05:05 2/11/2003 05:02
Matrix:	Water	QC Batch#:	2003/02/11-01.16 2003/02/11-02.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Antimony	0.0092	0.0050	mg/L	1.00	02/11/2003 08:24	
Arsenic	0.021	0.0050	mg/L	1.00	02/11/2003 08:24	
Barium	0.079	0.0050	mg/L	1.00	02/11/2003 08:24	
Beryllium	ND	0.0050	mg/L	1.00	02/11/2003 08:24	
Cadmium	ND	0.0020	mg/L	1.00	02/11/2003 08:24	
Chromium	ND	0.0050	mg/L	1.00	02/11/2003 08:24	
Cobalt	ND	0.0050	mg/L	1.00	02/11/2003 08:24	
Copper	0.0057	0.0050	mg/L	1.00	02/11/2003 08:24	
Lead	ND	0.0050	mg/L	1.00	02/11/2003 08:24	
Molybdenum	0.058	0.0050	mg/L	1.00	02/11/2003 08:24	
Nickel	0.016	0.0050	mg/L	1.00	02/11/2003 08:24	
Selenium	0.011	0.0050	mg/L	1.00	02/11/2003 08:24	
Silver	ND	0.0050	mg/L	1.00	02/11/2003 08:24	
Thallium	ND	0.0050	mg/L	1.00	02/11/2003 08:24	
Vanadium	0.011	0.0050	mg/L	1.00	02/11/2003 08:24	
Zinc	ND	0.010	mg/L	1.00	02/11/2003 08:24	
Mercury	ND	0.00020	mg/L	1.00	02/11/2003 13:42	

Dissolved CAM 17 Metals

Kennedy/Jenks-San Francisco
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San Francisco, CA 94107-1366
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Project: 000128.00
Praxair

Received: 02/06/2003 16:16

Site: 901 Embarcadero

Batch QC Report

Prep(s): 7470A
Method Blank
MB: 2003/02/11-01.16-011

Water

Test(s): 7470A
QC Batch # 2003/02/11-01.16
Date Extracted: 02/11/2003 05:05

Compound	Conc.	RL	Unit	Analyzed	Flag
Mercury	ND	0.0002	mg/L	02/11/2003 13:19	

Dissolved CAM 17 Metals

Kennedy/Jenks-San Francisco
Attn.: Meredith Durant

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Project: 000128.00
Praxair

Received: 02/06/2003 16:16

Site: 901 Embarcadero

Batch QC Report

Prep(s): 3005A — Test(s): 6010B
Method Blank — **Water** — **QC Batch # 2003/02/11-02.15**
MB: 2003/02/11-02.15-011 — Date Extracted: 02/11/2003 05:02

Compound	Conc.	RL	Unit	Analyzed	Flag
Antimony	ND	0.0050	mg/L	02/11/2003 07:48	
Arsenic	ND	0.0050	mg/L	02/11/2003 07:48	
Barium	ND	0.0050	mg/L	02/11/2003 07:48	
Beryllium	ND	0.0050	mg/L	02/11/2003 07:48	
Cadmium	ND	0.0020	mg/L	02/11/2003 07:48	
Chromium	ND	0.0050	mg/L	02/11/2003 07:48	
Cobalt	ND	0.0050	mg/L	02/11/2003 07:48	
Copper	ND	0.0050	mg/L	02/11/2003 07:48	
Lead	ND	0.0050	mg/L	02/11/2003 07:48	
Molybdenum	ND	0.0050	mg/L	02/11/2003 07:48	
Nickel	ND	0.0050	mg/L	02/11/2003 07:48	
Selenium	ND	0.0050	mg/L	02/11/2003 07:48	
Silver	ND	0.0050	mg/L	02/11/2003 07:48	
Thallium	ND	0.0050	mg/L	02/11/2003 07:48	
Vanadium	ND	0.0050	mg/L	02/11/2003 07:48	
Zinc	ND	0.010	mg/L	02/11/2003 07:48	

Dissolved CAM 17 Metals

Kennedy/Jenks-San Francisco
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Phone: (415) 243-2534 Fax: (415) 896-0999

Project: 000128.00
Praxair

Received: 02/06/2003 16:16

Site: 901 Embarcadero

Batch QC Report

Prep(s): 7470A

Test(s): 7470A

Laboratory Control Spike | **Water** | **QC Batch # 2003/02/11-01.16**

LCS 2003/02/11-01.16-012 Extracted: 02/11/2003 Analyzed: 02/11/2003 13:20
LCSD 2003/02/11-01.16-013 Extracted: 02/11/2003 Analyzed: 02/11/2003 13:21

Compound	Conc. mg/L		Exp.Conc.	Recovery		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Mercury	0.0214	0.0212	0.0200	107.0	106.0	0.9	85-115	20		

Dissolved CAM 17 Metals

Kennedy/Jenks-San Francisco
Attn.: Meredith Durant

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San Francisco, CA 94107-1366
Phone: (415) 243-2534 Fax: (415) 896-0999

Project: 000128.00
Praxair

Received: 02/06/2003 16:16

Site: 901 Embarcadero

Batch QC Report

Prep(s): 3005A

Test(s): 6010B

Laboratory Control Spike | **Water** | **QC Batch # 2003/02/11-02.15**

LCS 2003/02/11-02.15-012 Extracted: 02/11/2003 Analyzed: 02/11/2003 07:52

LCSD 2003/02/11-02.15-013 Extracted: 02/11/2003 Analyzed: 02/11/2003 07:56

Compound	Conc. mg/L		Exp.Conc.	Recovery		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Antimony	0.527	0.528	0.500	105.4	105.6	0.2	80-120	20		
Arsenic	0.456	0.452	0.500	91.2	90.4	0.9	80-120	20		
Barium	0.512	0.508	0.500	102.4	101.6	0.8	80-120	20		
Beryllium	0.514	0.507	0.500	102.8	101.4	1.4	80-120	20		
Cadmium	0.516	0.513	0.500	103.2	102.6	0.6	80-120	20		
Chromium	0.499	0.497	0.500	99.8	99.4	0.4	80-120	20		
Cobalt	0.513	0.511	0.500	102.6	102.2	0.4	80-120	20		
Copper	0.517	0.513	0.500	103.4	102.6	0.8	80-120	20		
Lead	0.523	0.520	0.500	104.6	104.0	0.6	80-120	20		
Molybdenum	0.505	0.503	0.500	101.0	100.6	0.4	80-120	20		
Nickel	0.514	0.511	0.500	102.8	102.2	0.6	80-120	20		
Selenium	0.531	0.521	0.500	106.2	104.2	1.9	80-120	20		
Silver	0.510	0.505	0.500	102.0	101.0	1.0	80-120	20		
Thallium	0.514	0.512	0.500	102.8	102.4	0.4	80-120	20		
Vanadium	0.517	0.513	0.500	103.4	102.6	0.8	80-120	20		
Zinc	0.526	0.524	0.500	105.2	104.8	0.4	80-120	20		

SEVERN TRENT STL

Submission #: 2003-02-0120

Mercury (Hg)

Kennedy/Jenks-San Francisco
Attn.: Meredith Durant

622 Folsom Street
San Francisco, CA 94107-1366
Phone: (415) 243-2534 Fax: (415) 896-0999

Project: 000128.00
Praxair

Received: 02/06/2003 16:16

Site: 901 Embarcadero

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
KB-37-S-0.0/0.5	02/05/2003 09:05	Soil	14
KB-38-S-0.0/0.5	02/05/2003 09:15	Soil	16

Mercury (Hg)

Kennedy/Jenks-San Francisco
Attn.: Meredith Durant

622 Folsom Street
San Francisco, CA 94107-1366
Phone: (415) 243-2534 Fax: (415) 896-0999

Project: 000128.00
Praxair

Received: 02/06/2003 16:16

Site: 901 Embarcadero

Prep(s):	7471A	Test(s):	7471A
Sample ID:	KB-37-S-0.0/0.5	Lab ID:	2003-02-0120 - 14
Sampled:	02/05/2003 09:05	Extracted:	2/10/2003 09:52
Matrix:	Soil	QC Batch#:	2003/02/10-03.16
Analysis Flag:	(See Legend and Note Section)		

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Mercury	0.44	0.050	mg/Kg	1.00	02/10/2003 13:50	

Mercury (Hg)

Kennedy/Jenks-San Francisco
Attn.: Meredith Durant

622 Folsom Street
San Francisco, CA 94107-1366
Phone: (415) 243-2534 Fax: (415) 896-0999

Project: 000128.00
Praxair

Received: 02/06/2003 16:16

Site: 901 Embarcadero

Prep(s):	7471A	Test(s):	7471A
Sample ID:	KB-38-S-0.0/0.5	Lab ID:	2003-02-0120 - 16
Sampled:	02/05/2003 09:15	Extracted:	2/10/2003 09:52
Matrix:	Soil	QC Batch#:	2003/02/10-03.16

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Mercury	1.5	0.050	mg/Kg	1.00	02/10/2003 13:54	

Mercury (Hg)

Kennedy/Jenks-San Francisco
Attn.: Meredith Durant

622 Folsom Street
San Francisco, CA 94107-1366
Phone: (415) 243-2534 Fax: (415) 896-0999

Project: 000128.00
Praxair

Received: 02/06/2003 16:16

Site: 901 Embarcadero

Batch QC Report

Prep(s): 7471A
Method Blank
MB: 2003/02/10-03.16-069

Soil

Test(s): 7471A
QC Batch # 2003/02/10-03.16
Date Extracted: 02/10/2003 09:52

Compound	Conc.	RL	Unit	Analyzed	Flag
Mercury	ND	0.050	mg/Kg	02/10/2003 13:45	

Mercury (Hg)

Kennedy/Jenks-San Francisco
Attn.: Meredith Durant

622 Folsom Street
San Francisco, CA 94107-1366
Phone: (415) 243-2534 Fax: (415) 896-0999

Project: 000128.00
Praxair

Received: 02/06/2003 16:16

Site: 901 Embarcadero

Batch QC Report

Prep(s): 7471A

Test(s): 7471A

Laboratory Control Spike | **Soil** | **QC Batch # 2003/02/10-03.16**

LCS 2003/02/10-03.16-070 Extracted: 02/10/2003 Analyzed: 02/10/2003 13:46

LCSD 2003/02/10-03.16-071 Extracted: 02/10/2003 Analyzed: 02/10/2003 13:47

Compound	Conc. mg/Kg		Exp.Conc.	Recovery		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Mercury	0.523	0.526	0.500	104.6	105.2	0.6	85-115	20		

Mercury (Hg)

Kennedy/Jenks-San Francisco
Attn.: Meredith Durant

622 Folsom Street
San Francisco, CA 94107-1366
Phone: (415) 243-2534 Fax: (415) 896-0999

Project: 000128.00
Praxair

Received: 02/06/2003 16:16

Site: 901 Embarcadero

Batch QC Report

Prep(s): 7471A

Test(s): 7471A

Matrix Spike (MS / MSD) **Soil** **QC Batch # 2003/02/10-03.16**

KB-37-S-0.0/0.5 >> MS

Lab ID: 2003-02-0120 - 014

MS: 2003/02/10-03.16-074 Extracted: 02/10/2003

Analyzed: 02/10/2003 13:51

Dilution: 1.00

MSD: 2003/02/10-03.16-075 Extracted: 02/10/2003

Analyzed: 02/10/2003 13:52

Dilution: 1.00

Compound	Conc. mg/Kg			Spk.Level	Recovery			Limits %		Flags	
	MS	MSD	Sample	mg/Kg	MS	MSD	RPD	Rec.	RPD	MS	MSD
Mercury	1.13	0.942	0.441	0.500	137.8	102.2	29.7	85-115	20	mso	rpd

Mercury (Hg)

Kennedy/Jenks-San Francisco
Attn.: Meredith Durant

622 Folsom Street
San Francisco, CA 94107-1366
Phone: (415) 243-2534 Fax: (415) 896-0999

Project: 000128.00
Praxair

Received: 02/06/2003 16:16

Site: 901 Embarcadero

Legend and Notes

Analysis Flag

Result Flag

mso

MS/MSD spike recoveries were out of QC limits due to matrix interference. Precision and Accuracy were verified by LCS/LCSD.

rpd

Analyte RPD was out of QC limits due to sample heterogeneity.

SEVERN TRENT STL

Submission #: 2003-02-0120

TEPH w/ Silica Gel Clean-up

Kennedy/Jenks-San Francisco
Attn.: Meredith Durant

622 Folsom Street
San Francisco, CA 94107-1366
Phone: (415) 243-2534 Fax: (415) 896-0999

Project: 000128.00
Praxair

Received: 02/06/2003 16:16

Site: 901 Embarcadero

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
KB-31-W-12	02/04/2003 15:00	Water	8
KB-32-W-8	02/04/2003 15:05	Water	9
KB-30-W-12-A	02/04/2003 16:30	Water	11
KB-35-S-5.0/.5.5	02/05/2003 08:05	Soil	12
KB-36-S-4.5/5.0	02/05/2003 08:30	Soil	13
KB-40-W-16	02/05/2003 11:15	Water	19
2/5 DUP	02/05/2003 14:15	Water	23
KB-42-W-16	02/05/2003 16:30	Water	24

TEPH w/ Silica Gel Clean-up

Kennedy/Jenks-San Francisco
Attn.: Meredith Durant

622 Folsom Street
San Francisco, CA 94107-1366
Phone: (415) 243-2534 Fax: (415) 896-0999

Project: 000128.00
Praxair

Received: 02/06/2003 16:16

Site: 901 Embarcadero

Prep(s): 3510/8015M
Sample ID: **KB-31-W-12**
Sampled: 02/04/2003 15:00
Matrix: Water
Analysis Flag: rl (See Legend and Note Section)

Test(s): 8015M
Lab ID: 2003-02-0120 - 8
Extracted: 2/7/2003 13:32
QC Batch#: 2003/02/07-03.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	ND	62	ug/L	1.23	02/10/2003 20:24	
Motor Oil	ND	620	ug/L	1.23	02/10/2003 20:24	
Surrogates(s)						
o-Terphenyl	85.6	60-130	%	1.23	02/10/2003 20:24	

TEPH w/ Silica Gel Clean-up

Kennedy/Jenks-San Francisco
Attn.: Meredith Durant

622 Folsom Street
San Francisco, CA 94107-1366
Phone: (415) 243-2534 Fax: (415) 896-0999

Project: 000128.00
Praxair

Received: 02/06/2003 16:16

Site: 901 Embarcadero

Prep(s):	3510/8015M	Test(s):	8015M
Sample ID:	KB-32-W-8	Lab ID:	2003-02-0120 - 9
Sampled:	02/04/2003 15:05	Extracted:	2/7/2003 13:32
Matrix:	Water	QC Batch#:	2003/02/07-03.10

Analysis Flag: rl (See Legend and Note Section)

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	ND	56	ug/L	1.12	02/10/2003 21:05	
Motor Oil	ND	560	ug/L	1.12	02/10/2003 21:05	
Surrogates(s)						
o-Terphenyl	72.5	60-130	%	1.12	02/10/2003 21:05	

TEPH w/ Silica Gel Clean-up

Kennedy/Jenks-San Francisco
Attn.: Meredith Durant

622 Folsom Street
San Francisco, CA 94107-1366
Phone: (415) 243-2534 Fax: (415) 896-0999

Project: 000128.00
Praxair

Received: 02/06/2003 16:16

Site: 901 Embarcadero

Prep(s):	3510/8015M	Test(s):	8015M
Sample ID:	KB-30-W-12-A	Lab ID:	2003-02-0120 - 11
Sampled:	02/04/2003 16:30	Extracted:	2/7/2003 13:32
Matrix:	Water	QC Batch#:	2003/02/07-03.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	64	50	ug/L	1.00	02/10/2003 21:45	ndp
Motor Oil	ND	500	ug/L	1.00	02/10/2003 21:45	
Surrogates(s)						
o-Terphenyl	75.6	60-130	%	1.00	02/10/2003 21:45	

TEPH w/ Silica Gel Clean-up

Kennedy/Jenks-San Francisco
Attn.: Meredith Durant

622 Folsom Street
San Francisco, CA 94107-1366
Phone: (415) 243-2534 Fax: (415) 896-0999

Project: 000128.00
Praxair

Received: 02/06/2003 16:16

Site: 901 Embarcadero

Prep(s):	3550/8015M	Test(s):	8015M
Sample ID:	KB-35-S-5.0/5.5	Lab ID:	2003-02-0120 - 12
Sampled:	02/05/2003 08:05	Extracted:	2/7/2003 14:12
Matrix:	Soil	QC Batch#:	2003/02/07-04.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	ND	1.0	mg/Kg	1.00	02/10/2003 19:19	
Motor Oil	ND	50	mg/Kg	1.00	02/10/2003 19:19	
Surrogates(s)						
o-Terphenyl	87.1	60-130	%	1.00	02/10/2003 19:19	

TEPH w/ Silica Gel Clean-up

Kennedy/Jenks-San Francisco
Attn.: Meredith Durant

622 Folsom Street
San Francisco, CA 94107-1366
Phone: (415) 243-2534 Fax: (415) 896-0999

Project: 000128.00
Praxair

Received: 02/06/2003 16:16

Site: 901 Embarcadero

Prep(s):	3550/8015M	Test(s):	8015M
Sample ID:	KB-36-S-4.5/5.0	Lab ID:	2003-02-0120 - 13
Sampled:	02/05/2003 08:30	Extracted:	2/7/2003 14:12
Matrix:	Soil	QC Batch#:	2003/02/07-04.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	ND	1.0	mg/Kg	1.00	02/10/2003 19:56	
Motor Oil	ND	50	mg/Kg	1.00	02/10/2003 19:56	
Surrogates(s)						
o-Terphenyl	77.8	60-130	%	1.00	02/10/2003 19:56	

TEPH w/ Silica Gel Clean-up

Kennedy/Jenks-San Francisco
Attn.: Meredith Durant

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San Francisco, CA 94107-1366
Phone: (415) 243-2534 Fax: (415) 896-0999

Project: 000128.00
Praxair

Received: 02/06/2003 16:16

Site: 901 Embarcadero

Prep(s): 3510/8015M
Sample ID: **KB-40-W-16**
Sampled: 02/05/2003 11:15
Matrix: Water
Analysis Flag: rl (See Legend and Note Section)

Test(s): 8015M
Lab ID: 2003-02-0120 - 19
Extracted: 2/7/2003 13:32
QC Batch#: 2003/02/07-03.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	ND	57	ug/L	1.15	02/10/2003 22:25	
Motor Oil	ND	570	ug/L	1.15	02/10/2003 22:25	
Surrogates(s)						
o-Terphenyl	76.2	60-130	%	1.15	02/10/2003 22:25	

TEPH w/ Silica Gel Clean-up

Kennedy/Jenks-San Francisco
Attn.: Meredith Durant

622 Folsom Street
San Francisco, CA 94107-1366
Phone: (415) 243-2534 Fax: (415) 896-0999

Project: 000128.00
Praxair

Received: 02/06/2003 16:16

Site: 901 Embarcadero

Prep(s): 3510/8015M
Sample ID: **2/5 DUP**
Sampled: 02/05/2003 14:15
Matrix: Water
Analysis Flag: rl (See Legend and Note Section)

Test(s): 8015M
Lab ID: 2003-02-0120 - 23
Extracted: 2/7/2003 13:32
QC Batch#: 2003/02/07-03.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	ND	72	ug/L	1.45	02/10/2003 23:06	
Motor Oil	ND	720	ug/L	1.45	02/10/2003 23:06	
Surrogates(s)						
o-Terphenyl	70.9	60-130	%	1.45	02/10/2003 23:06	

TEPH w/ Silica Gel Clean-up

Kennedy/Jenks-San Francisco
Attn.: Meredith Durant

622 Folsom Street
San Francisco, CA 94107-1366
Phone: (415) 243-2534 Fax: (415) 896-0999

Project: 000128.00
Praxair

Received: 02/06/2003 16:16

Site: 901 Embarcadero

Prep(s): 3510/8015M
Sample ID: **KB-42-W-16**
Sampled: 02/05/2003 16:30
Matrix: Water
Analysis Flag: rl (See Legend and Note Section)

Test(s): 8015M
Lab ID: 2003-02-0120 - 24
Extracted: 2/7/2003 13:32
QC Batch#: 2003/02/07-03.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	ND	180	ug/L	3.57	02/10/2003 23:46	
Motor Oil	ND	1800	ug/L	3.57	02/10/2003 23:46	
Surrogates(s)						
o-Terphenyl	79.0	60-130	%	3.57	02/10/2003 23:46	

TEPH w/ Silica Gel Clean-up

Kennedy/Jenks-San Francisco
Attn.: Meredith Durant

622 Folsom Street
San Francisco, CA 94107-1366
Phone: (415) 243-2534 Fax: (415) 896-0999

Project: 000128.00
Praxair

Received: 02/06/2003 16:16

Site: 901 Embarcadero

Batch QC Report

Prep(s): 3510/8015M
Method Blank
MB: 2003/02/07-03.10-003

Water

Test(s): 8015M
QC Batch # 2003/02/07-03.10
Date Extracted: 02/07/2003 13:32

Compound	Conc.	RL	Unit	Analyzed	Flag
Diesel	ND	50	ug/L	02/10/2003 14:19	
Motor Oil	ND	500	ug/L	02/10/2003 14:19	
Surrogates(s)					
o-Terphenyl	82.2	60-130	%	02/10/2003 14:19	

TEPH w/ Silica Gel Clean-up

Kennedy/Jenks-San Francisco
Attn.: Meredith Durant

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San Francisco, CA 94107-1366
Phone: (415) 243-2534 Fax: (415) 896-0999

Project: 000128.00
Praxair

Received: 02/06/2003 16:16

Site: 901 Embarcadero

Batch QC Report

Prep(s): 3550/8015M
Method Blank
MB: 2003/02/07-04.10-003

Soil

Test(s): 8015M
QC Batch # 2003/02/07-04.10
Date Extracted: 02/07/2003 14:12

Compound	Conc.	RL	Unit	Analyzed	Flag
Diesel	ND	1	mg/Kg	02/10/2003 07:22	
Motor Oil	ND	50	mg/Kg	02/10/2003 07:22	
Surrogates(s)					
o-Terphenyl	84.3	60-130	%	02/10/2003 07:22	

TEPH w/ Silica Gel Clean-up

Kennedy/Jenks-San Francisco
Attn.: Meredith Durant

622 Folsom Street
San Francisco, CA 94107-1366
Phone: (415) 243-2534 Fax: (415) 896-0999

Project: 000128.00
Praxair

Received: 02/06/2003 16:16

Site: 901 Embarcadero

Batch QC Report

Prep(s): 3510/8015M

Test(s): 8015M

Laboratory Control Spike | **Water** | **QC Batch # 2003/02/07-03.10**

LCS 2003/02/07-03.10-001 Extracted: 02/07/2003 Analyzed: 02/10/2003 12:58

LCSD 2003/02/07-03.10-002 Extracted: 02/07/2003 Analyzed: 02/10/2003 13:39

Compound	Conc. ug/L		Exp.Conc.	Recovery		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Diesel	821	860	1250	65.7	68.8	4.6	60-130	25		
Surrogates(s)										
o-Terphenyl	18.2	19.1	20.0	90.9	95.7		60-130	0		

TEPH w/ Silica Gel Clean-up

Kennedy/Jenks-San Francisco
Attn.: Meredith Durant

622 Folsom Street
San Francisco, CA 94107-1366
Phone: (415) 243-2534 Fax: (415) 896-0999

Project: 000128.00
Praxair

Received: 02/06/2003 16:16

Site: 901 Embarcadero

Batch QC Report

Prep(s): 3550/8015M

Test(s): 8015M

Laboratory Control Spike | **Soil** | **QC Batch # 2003/02/07-04.10**

LCS 2003/02/07-04.10-001 Extracted: 02/07/2003 Analyzed: 02/10/2003 06:08
LCSD 2003/02/07-04.10-002 Extracted: 02/07/2003 Analyzed: 02/10/2003 06:45

Compound	Conc. mg/Kg		Exp.Conc.	Recovery		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Diesel	33.9	34.5	41.6	81.5	82.9	1.7	60-130	25		
Surrogates(s)										
o-Terphenyl	19.6	20.2	20.0	97.9	100.9		60-130	0		

TEPH w/ Silica Gel Clean-up

Kennedy/Jenks-San Francisco
Attn.: Meredith Durant

622 Folsom Street
San Francisco, CA 94107-1366
Phone: (415) 243-2534 Fax: (415) 896-0999

Project: 000128.00
Praxair

Received: 02/06/2003 16:16

Site: 901 Embarcadero

Legend and Notes

Analysis Flag

rl

Reporting limits raised due to reduced sample size.

Result Flag

ndp

Hydrocarbon reported does not match the pattern of our Diesel standard

Sample Chain-of-Custody/Analysis Request 2003-02-0120

Kennedy/Jenks Consultants

#1855

Page 1/3

Possible Hazards: Analytes

Client: Praxair | Report to: M. Durant

Site: 901 Embarcadero | Company: K/J

Project No.: 800128.00 | Address: 622 Folsom St SF

Sampler Name: M. McLeod | Telephone: 415-243-2508 | Fax: 415-~~243~~ 896-0999

Lab Destination: STL SF

Address: 1220 Quarry Ln Pleasanton CA

Telephone: 925-484-1919

Carrier/Way Bill No.: n/a

(1) Lab ID No.	(1) Client ID No.	Collection Date	Collection Time	(2) Type	Depth	(3) Comp.	(4) Pres.	Turn-around	(5) Analyses Requested: CAM 17 metals (a)	EPA 8260 Acetone (b)	TPH-Extractable Silica Gel Cleanup							Comment/Conditions (container type, container number, etc.)
	KB-27-W-12	2/4/03	1059	W	12	No	HNO_3	STD	X									(a) Field Filtered w/ 0.45-μm filter
	KB-28-W-12		1055	W	12		"		X									(b) REPORT ACETONE ONLY
	KB-29-W-8		1105	W	8		"		X									
	KB-33-S-0.9/1.4		1410	S	0.9													HOLD
	KB-33-S-1.4/1.9		1410	S	1.4													HOLD
	KB-34-S-0.0/0.5		1420	S	0.0		4°C			X								
	KB-34-S-2.0/2.5		1420	S	2.0		4°C			X								
	KB-31-W-12		1500	W	12						X	X						
	KB-32-W-8		1505	W	8						X	X						
	KB-30-W-12		1515	W	12		HNO_3		X									
	KB-30-W-12-A		1630	W	12		4°C				X	X						4.0°C

(1) Write only one sample number in each space.
(2) Specify type of sample(s): Water (W), Solid (S), or indicate type.
(3) Mark each sample which should be composited in Laboratory as follows: Place an "A" in box for each sample that should be composited into one sample; use sequential letter for additional groups.
(4) Preservation of sample.
(5) Write each analysis requested across top. Place an "X" in appropriate column to indicate type of analysis needed for each sample.

Sample Relinquished By: Print Name	Signature	Company	Date	Time	Sample Received By: Print Name	Signature	Company	Date	Time
M. McLeod		K/J	2/5	11:00					
		STL-SF	2/6/03	1616	D. Harrington	D. Harrington	STL-SF	2/6/03	1616

Sample Chain-of-Custody/Analysis Request 2003-02-0120

Kennedy/Jenks Consultants

Possible Hazards: Analytes

Client: Proxar | Report to: M. Dunont

Site: 901 Embarcadero | Company: K/J

Project No.: 000128.00 | Address: 622 Folsom SF

Sampler Name: M. McLeod | Telephone: 415-243-2508 | Fax: 415-896-0999

Lab Destination: STL

Address: 1220 Quarry Ln Pleasanton

Telephone: 925-484-1919

Carrier/Way Bill No.: n/a

(1) Lab ID No.	(1) Client ID No.	Collection Date	Collection Time	(2) Type	Depth	(3) Comp.	(4) Pres.	Turn-around	(5) Analyses Requested: TEPH-8015m	Silica Gel Cleanup	Hg	Acetone - 8260 (A)	Comment/Conditions (container type, container number, etc.)
	KB-35-S-5.0/5.5	2/5/03	0805	S	5	No	4°C	STD	X	X			
	KB-36-S-4.5/5.0		0830		4.5				X	X			
	KB-37-S-0.0/0.5		0905		0						X		
	KB-37-S-1.0/1.5		0905		1								HOLD
	KB-38-S-0.0/0.5		0915		0						X		
	KB-38-S-1.0/1.5		0915		1								HOLD
	KB-39-S-0.0/0.5		0930		0						X		
	KB-40-W-16		1115	W	16				X	X			
	KB-39-S-1.0/1.5		0930	S	1								HOLD
	KB-33A-S-0.5/1.0		1320		0.5							X	
	KB-33A-S-2.0/2.5		1320		2							X	(A) REPORT ACETONE ONLY

(1) Write only one sample number in each space.

(2) Specify type of sample(s): Water (W), Solid (S), or indicate type.

(3) Mark each sample which should be composited in Laboratory as follows: Place an "A" in box for each sample that should be composited into one sample; use sequential letter for additional groups.

(4) Preservation of sample.

(5) Write each analysis requested across top. Place an "X" in appropriate column to indicate type of analysis needed for each sample.

Sample Relinquished By					Sample Received By				
Print Name	Signature	Company	Date	Time	Print Name	Signature	Company	Date	Time
M. McLeod		K/J	2/6	1100			STL SF	2/6/03	1100
	B Rovira	STL SF	2/6/03	1616	D. Harrington	D. Harrington	STL-SF	2/6/03	@1616

Sample Chain-of-Custody/Analysis Request

2003-02-0120

Kennedy/Jenks Consultants

Page 3/3

Possible Hazards: Analytes

Client: Praxair | Report to: M. Durant

Site: 901 Embarca | Company: K/J

Project No.: 000128.00 | Address: 622 Folsom SF

Sampler Name: M. McLeod | Telephone: 415-243-2508 | Fax: 415-896-0999

Lab Destination: STL

Address: 1220 Quarry Pleasanton

Telephone: 925-484-1919

Carrier/Way Bill No.: n/a

(1) Lab ID No.	(1) Client ID No.	Collection Date	Collection Time	(2) Type	Depth	(3) Comp.	(4) Pres.	Turn-around	(5) Analyses Requested: TEH-8015	(5) Analyses Requested: Silica Gel Cleanup	Comment/Conditions (container type, container number, etc.)
	2/5 DUP	2/5	1415	W	16	NO	4°c	STD	X	X	
	KB-42-W-16		1630	"	"	"	"	"	X	X	Partial sample

(1) Write only one sample number in each space.

(2) Specify type of sample(s): Water (W), Solid (S), or indicate type.

(3) Mark each sample which should be composited in Laboratory as follows: Place an "A" in box for each sample that should be composited into one sample; use sequential letter for additional groups.

(4) Preservation of sample.

(5) Write each analysis requested across top. Place an "X" in appropriate column to indicate type of analysis needed for each sample.

Sample Relinquished By: Print Name	Signature	Company	Date	Time	Sample Received By: Print Name	Signature	Company	Date	Time
Mike McLeod		K/J	2/5	11:00	D. Harrington	D. Harrington	STL-SF	2/6/03	1100
A Morrison	A Morrison	STL-SF	2/6/03	1614			STL-SF	2/6/03 @	1614

STL

STL San Francisco

Sample Receipt Checklist

Submission #:2003- 02 - 0120

Checklist completed by: (initials) DSN Date: 02/07/03

Courier name: ☒ STL San Francisco ☐ Client _____

Custody seals intact on shipping container/samples	Yes____ No____	Not Present ✓
Chain of custody present?	Yes ✓ No____	
Chain of custody signed when relinquished and received?	Yes ✓ No____	
Chain of custody agrees with sample labels?	Yes ✓ No____	
Samples in proper container/bottle?	Yes ✓ No____	
Sample containers intact?	Yes ✓ No____	
Sufficient sample volume for indicated test?	Yes ✓ No____	
All samples received within holding time?	Yes ✓ No____	
Container/Temp Blank temperature in compliance (4^0 C ± 2)?	Temp: 4.0 °C Yes ✓ No____	
Water - VOA vials have zero headspace?	No VOA vials submitted ✓ Yes____ No____	

(if bubble is present, refer to approximate bubble size and itemize in comments as **S** (small ~O), **M** (medium ~ O) or **L** (large ~ O)

Water - **pH acceptable upon receipt?** ☒ Yes ☐ No

☐ **pH adjusted**– Preservative used: ☐ HNO_3 ☐ HCl ☐ H_2SO_4 ☐ NaOH ☐ ZnOAc

For any item check-listed "No", provided detail of discrepancy in comment section below:

Comments: One sample for TEPH (water) very low volum as noted by client – sample "KB-42-W-16"

Project Management [Routing for instruction of indicated discrepancy(ies)]

Project Manager: (initials) _____ Date: ____/____/03

Client contacted: ☐ Yes ☐ No

Summary of discussion:

Corrective Action (per PM/Client):

Appendix C

Photographs

Appendix C: Photographs

Photo #1: Excavation of soil at Boring KB-7 complete.

Photo #2: Excavation at Boring KB-7 lined with plastic.

Photo #3: Excavation in progress at Boring KB-11.

Photo #4: Excavation of soil at Boring KB-11 complete.

Photo #5: Start of excavation, including hand shoveling, near Boring KB-13.

Photo #6: Excavation of soil near Boring KB-13 complete.

Photo #7: Covered stockpile (typical).

Photo #8: Placing backfill at excavation for Boring KB-7.

Photo #9: Backfill complete at excavation for Boring KB-7.

Photo #10: Backfill complete at excavation for Boring KB-11.

Photo 11: Placing backfill at excavation near Boring KB-13.

Photo #12: Compaction of backfill near Boring KB-13.

Appendix D

Analytical Data Reports and Chain of Custody Forms – Soil Excavation

Confirmation Soil Samples

SEVERN TRENT STL

Submission#: 2003-03-0046

Kennedy/Jenks-San Francisco

March 10, 2003

622 Folsom Street
San Francisco, CA 94107-1366
Attn.: Meredith Durant

Project#: 000128.00
Project: Praxair
Site: 901 Embarcadero

Dear Meredith,

Attached is our report for your samples received on 03/04/2003 16:07
This report has been reviewed and approved for release. Reproduction of this report is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after 04/18/2003 unless you have requested otherwise.
We appreciate the opportunity to be of service to you. If you have any questions, please call me at (925) 484-1919.
You can also contact me via email. My email address is: vvancil@stl-inc.com

Sincerely,

Vincent Vancil
Project Manager

SEVERN TRENT STL

Submission #: 2003-03-0046

CAM 17 Metals

Kennedy/Jenks-San Francisco
Attn.: Meredith Durant

622 Folsom Street
San Francisco, CA 94107-1366
Phone: (415) 243-2534 Fax: (415) 896-0999

Project: 000128.00
Praxair

Received: 03/04/2003 16:07

Site: 901 Embarcadero

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
``13`` CONF-1	03/03/2003 10:23	Soil	1
``13`` CONF-2	03/03/2003 10:25	Soil	2
``13`` CONF-3	03/03/2003 10:28	Soil	3
``13`` CONF-4	03/03/2003 10:30	Soil	4
``13`` CONF-5	03/03/2003 10:33	Soil	5
``13`` CONF-6	03/03/2003 10:35	Soil	6
``7`` CONF-1	03/03/2003 15:35	Soil	13
``7`` CONF-2	03/03/2003 15:40	Soil	14
``7`` CONF-3	03/03/2003 15:42	Soil	15
``7`` CONF-4	03/03/2003 15:44	Soil	16

CAM 17 Metals

Kennedy/Jenks-San Francisco
Attn.: Meredith Durant

622 Folsom Street
San Francisco, CA 94107-1366
Phone: (415) 243-2534 Fax: (415) 896-0999

Project: 000128.00
Praxair

Received: 03/04/2003 16:07

Site: 901 Embarcadero

Prep(s):	3050B 7471A	Test(s):	6010B 7471A
Sample ID:	``13`` CONF-1	Lab ID:	2003-03-0046 - 1
Sampled:	03/03/2003 10:23	Extracted:	3/5/2003 12:53 3/5/2003 12:50
Matrix:	Soil	QC Batch#:	2003/03/05-01.16 2003/03/05-03.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Antimony	ND	2.0	mg/Kg	1.00	03/06/2003 08:26	
Arsenic	2.6	1.0	mg/Kg	1.00	03/06/2003 08:26	
Barium	49	1.0	mg/Kg	1.00	03/06/2003 08:26	
Beryllium	ND	0.50	mg/Kg	1.00	03/06/2003 08:26	
Cadmium	1.6	0.50	mg/Kg	1.00	03/06/2003 08:26	
Chromium	23	1.0	mg/Kg	1.00	03/06/2003 08:26	
Cobalt	6.4	1.0	mg/Kg	1.00	03/06/2003 08:26	
Copper	15	1.0	mg/Kg	1.00	03/06/2003 08:26	
Lead	9.5	1.0	mg/Kg	1.00	03/06/2003 08:26	
Molybdenum	ND	1.0	mg/Kg	1.00	03/06/2003 08:26	
Nickel	31	1.0	mg/Kg	1.00	03/06/2003 08:26	
Selenium	ND	2.0	mg/Kg	1.00	03/06/2003 08:26	
Silver	ND	1.0	mg/Kg	1.00	03/06/2003 08:26	
Thallium	ND	1.0	mg/Kg	1.00	03/06/2003 08:26	
Vanadium	26	1.0	mg/Kg	1.00	03/06/2003 08:26	
Zinc	34	1.0	mg/Kg	1.00	03/06/2003 08:26	
Mercury	0.11	0.050	mg/Kg	1.00	03/06/2003 09:43	

CAM 17 Metals

Kennedy/Jenks-San Francisco
Attn.: Meredith Durant

622 Folsom Street
San Francisco, CA 94107-1366
Phone: (415) 243-2534 Fax: (415) 896-0999

Project: 000128.00
Praxair

Received: 03/04/2003 16:07

Site: 901 Embarcadero

Prep(s):	3050B 7471A	Test(s):	6010B 7471A
Sample ID:	``13`` CONF-2	Lab ID:	2003-03-0046 - 2
Sampled:	03/03/2003 10:25	Extracted:	3/5/2003 12:53 3/5/2003 12:50
Matrix:	Soil	QC Batch#:	2003/03/05-01.16 2003/03/05-03.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Antimony	ND	2.0	mg/Kg	1.00	03/06/2003 09:18	
Arsenic	5.3	1.0	mg/Kg	1.00	03/06/2003 09:18	
Barium	33	1.0	mg/Kg	1.00	03/06/2003 09:18	
Beryllium	ND	0.50	mg/Kg	1.00	03/06/2003 09:18	
Cadmium	1.4	0.50	mg/Kg	1.00	03/06/2003 09:18	
Chromium	25	1.0	mg/Kg	1.00	03/06/2003 09:18	
Cobalt	5.5	1.0	mg/Kg	1.00	03/06/2003 09:18	
Copper	14	1.0	mg/Kg	1.00	03/06/2003 09:18	
Lead	11	1.0	mg/Kg	1.00	03/06/2003 09:18	
Molybdenum	1.0	1.0	mg/Kg	1.00	03/06/2003 09:18	
Nickel	26	1.0	mg/Kg	1.00	03/06/2003 09:18	
Selenium	ND	2.0	mg/Kg	1.00	03/06/2003 09:18	
Silver	ND	1.0	mg/Kg	1.00	03/06/2003 09:18	
Thallium	ND	1.0	mg/Kg	1.00	03/06/2003 09:18	
Vanadium	24	1.0	mg/Kg	1.00	03/06/2003 09:18	
Zinc	81	1.0	mg/Kg	1.00	03/06/2003 09:18	
Mercury	ND	0.050	mg/Kg	1.00	03/06/2003 09:47	

CAM 17 Metals

Kennedy/Jenks-San Francisco
Attn.: Meredith Durant

622 Folsom Street
San Francisco, CA 94107-1366
Phone: (415) 243-2534 Fax: (415) 896-0999

Project: 000128.00
Praxair

Received: 03/04/2003 16:07

Site: 901 Embarcadero

Prep(s):	3050B 7471A	Test(s):	6010B 7471A
Sample ID:	"13" CONF-3	Lab ID:	2003-03-0046 - 3
Sampled:	03/03/2003 10:28	Extracted:	3/5/2003 12:53 3/5/2003 12:50
Matrix:	Soil	QC Batch#:	2003/03/05-01.16 2003/03/05-03.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Antimony	ND	2.0	mg/Kg	1.00	03/06/2003 09:22	
Arsenic	2.2	1.0	mg/Kg	1.00	03/06/2003 09:22	
Barium	39	1.0	mg/Kg	1.00	03/06/2003 09:22	
Beryllium	ND	0.50	mg/Kg	1.00	03/06/2003 09:22	
Cadmium	1.5	0.50	mg/Kg	1.00	03/06/2003 09:22	
Chromium	20	1.0	mg/Kg	1.00	03/06/2003 09:22	
Cobalt	5.5	1.0	mg/Kg	1.00	03/06/2003 09:22	
Copper	15	1.0	mg/Kg	1.00	03/06/2003 09:22	
Lead	7.9	1.0	mg/Kg	1.00	03/06/2003 09:22	
Molybdenum	ND	1.0	mg/Kg	1.00	03/06/2003 09:22	
Nickel	24	1.0	mg/Kg	1.00	03/06/2003 09:22	
Selenium	ND	2.0	mg/Kg	1.00	03/06/2003 09:22	
Silver	ND	1.0	mg/Kg	1.00	03/06/2003 09:22	
Thallium	ND	1.0	mg/Kg	1.00	03/06/2003 09:22	
Vanadium	23	1.0	mg/Kg	1.00	03/06/2003 09:22	
Zinc	33	1.0	mg/Kg	1.00	03/06/2003 09:22	
Mercury	0.071	0.050	mg/Kg	1.00	03/06/2003 09:51	

CAM 17 Metals

Kennedy/Jenks-San Francisco
Attn.: Meredith Durant

622 Folsom Street
San Francisco, CA 94107-1366
Phone: (415) 243-2534 Fax: (415) 896-0999

Project: 000128.00
Praxair

Received: 03/04/2003 16:07

Site: 901 Embarcadero

Prep(s):	3050B 7471A	Test(s):	6010B 7471A
Sample ID:	``13`` CONF-4	Lab ID:	2003-03-0046 - 4
Sampled:	03/03/2003 10:30	Extracted:	3/5/2003 12:53 3/5/2003 12:50
Matrix:	Soil	QC Batch#:	2003/03/05-01.16 2003/03/05-03.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Antimony	ND	2.0	mg/Kg	1.00	03/06/2003 09:25	
Arsenic	1.9	1.0	mg/Kg	1.00	03/06/2003 09:25	
Barium	20	1.0	mg/Kg	1.00	03/06/2003 09:25	
Beryllium	ND	0.50	mg/Kg	1.00	03/06/2003 09:25	
Cadmium	0.86	0.50	mg/Kg	1.00	03/06/2003 09:25	
Chromium	24	1.0	mg/Kg	1.00	03/06/2003 09:25	
Cobalt	3.5	1.0	mg/Kg	1.00	03/06/2003 09:25	
Copper	4.5	1.0	mg/Kg	1.00	03/06/2003 09:25	
Lead	5.3	1.0	mg/Kg	1.00	03/06/2003 09:25	
Molybdenum	ND	1.0	mg/Kg	1.00	03/06/2003 09:25	
Nickel	26	1.0	mg/Kg	1.00	03/06/2003 09:25	
Selenium	ND	2.0	mg/Kg	1.00	03/06/2003 09:25	
Silver	ND	1.0	mg/Kg	1.00	03/06/2003 09:25	
Thallium	ND	1.0	mg/Kg	1.00	03/06/2003 09:25	
Vanadium	20	1.0	mg/Kg	1.00	03/06/2003 09:25	
Zinc	16	1.0	mg/Kg	1.00	03/06/2003 09:25	
Mercury	ND	0.050	mg/Kg	1.00	03/06/2003 09:52	

CAM 17 Metals

Kennedy/Jenks-San Francisco
Attn.: Meredith Durant

622 Folsom Street
San Francisco, CA 94107-1366
Phone: (415) 243-2534 Fax: (415) 896-0999

Project: 000128.00
Praxair

Received: 03/04/2003 16:07

Site: 901 Embarcadero

Prep(s):	3050B 7471A	Test(s):	6010B 7471A
Sample ID:	"13" CONF-5	Lab ID:	2003-03-0046 - 5
Sampled:	03/03/2003 10:33	Extracted:	3/5/2003 12:53 3/5/2003 12:50
Matrix:	Soil	QC Batch#:	2003/03/05-01.16 2003/03/05-03.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Antimony	ND	2.0	mg/Kg	1.00	03/06/2003 09:28	
Arsenic	2.1	1.0	mg/Kg	1.00	03/06/2003 09:28	
Barium	60	1.0	mg/Kg	1.00	03/06/2003 09:28	
Beryllium	ND	0.50	mg/Kg	1.00	03/06/2003 09:28	
Cadmium	2.5	0.50	mg/Kg	1.00	03/06/2003 09:28	
Chromium	27	1.0	mg/Kg	1.00	03/06/2003 09:28	
Cobalt	6.1	1.0	mg/Kg	1.00	03/06/2003 09:28	
Copper	21	1.0	mg/Kg	1.00	03/06/2003 09:28	
Lead	9.2	1.0	mg/Kg	1.00	03/06/2003 09:28	
Molybdenum	ND	1.0	mg/Kg	1.00	03/06/2003 09:28	
Nickel	25	1.0	mg/Kg	1.00	03/06/2003 09:28	
Selenium	ND	2.0	mg/Kg	1.00	03/06/2003 09:28	
Silver	ND	1.0	mg/Kg	1.00	03/06/2003 09:28	
Thallium	ND	1.0	mg/Kg	1.00	03/06/2003 09:28	
Vanadium	30	1.0	mg/Kg	1.00	03/06/2003 09:28	
Zinc	96	1.0	mg/Kg	1.00	03/06/2003 09:28	
Mercury	0.080	0.050	mg/Kg	1.00	03/06/2003 09:53	

CAM 17 Metals

Kennedy/Jenks-San Francisco
Attn.: Meredith Durant

622 Folsom Street
San Francisco, CA 94107-1366
Phone: (415) 243-2534 Fax: (415) 896-0999

Project: 000128.00
Praxair

Received: 03/04/2003 16:07

Site: 901 Embarcadero

Prep(s):	3050B 7471A	Test(s):	6010B 7471A
Sample ID:	"13" CONF-6	Lab ID:	2003-03-0046 - 6
Sampled:	03/03/2003 10:35	Extracted:	3/5/2003 12:53 3/5/2003 12:50
Matrix:	Soil	QC Batch#:	2003/03/05-01.16 2003/03/05-03.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Antimony	ND	2.0	mg/Kg	1.00	03/06/2003 09:32	
Arsenic	1.3	1.0	mg/Kg	1.00	03/06/2003 09:32	
Barium	46	1.0	mg/Kg	1.00	03/06/2003 09:32	
Beryllium	ND	0.50	mg/Kg	1.00	03/06/2003 09:32	
Cadmium	1.5	0.50	mg/Kg	1.00	03/06/2003 09:32	
Chromium	28	1.0	mg/Kg	1.00	03/06/2003 09:32	
Cobalt	5.4	1.0	mg/Kg	1.00	03/06/2003 09:32	
Copper	12	1.0	mg/Kg	1.00	03/06/2003 09:32	
Lead	12	1.0	mg/Kg	1.00	03/06/2003 09:32	
Molybdenum	ND	1.0	mg/Kg	1.00	03/06/2003 09:32	
Nickel	26	1.0	mg/Kg	1.00	03/06/2003 09:32	
Selenium	ND	2.0	mg/Kg	1.00	03/06/2003 09:32	
Silver	ND	1.0	mg/Kg	1.00	03/06/2003 09:32	
Thallium	ND	1.0	mg/Kg	1.00	03/06/2003 09:32	
Vanadium	23	1.0	mg/Kg	1.00	03/06/2003 09:32	
Zinc	88	1.0	mg/Kg	1.00	03/06/2003 09:32	
Mercury	ND	0.050	mg/Kg	1.00	03/06/2003 09:54	

CAM 17 Metals

Kennedy/Jenks-San Francisco
Attn.: Meredith Durant

622 Folsom Street
San Francisco, CA 94107-1366
Phone: (415) 243-2534 Fax: (415) 896-0999

Project: 000128.00
Praxair

Received: 03/04/2003 16:07

Site: 901 Embarcadero

Prep(s):	3050B 7471A	Test(s):	6010B 7471A
Sample ID:	"7" CONF-1	Lab ID:	2003-03-0046 - 13
Sampled:	03/03/2003 15:35	Extracted:	3/5/2003 12:53 3/5/2003 12:50
Matrix:	Soil	QC Batch#:	2003/03/05-01.16 2003/03/05-03.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Antimony	ND	2.0	mg/Kg	1.00	03/06/2003 09:35	
Arsenic	4.0	1.0	mg/Kg	1.00	03/06/2003 09:35	
Barium	72	1.0	mg/Kg	1.00	03/06/2003 09:35	
Beryllium	ND	0.50	mg/Kg	1.00	03/06/2003 09:35	
Cadmium	1.6	0.50	mg/Kg	1.00	03/06/2003 09:35	
Chromium	20	1.0	mg/Kg	1.00	03/06/2003 09:35	
Cobalt	6.9	1.0	mg/Kg	1.00	03/06/2003 09:35	
Copper	15	1.0	mg/Kg	1.00	03/06/2003 09:35	
Lead	9.2	1.0	mg/Kg	1.00	03/06/2003 09:35	
Molybdenum	ND	1.0	mg/Kg	1.00	03/06/2003 09:35	
Nickel	23	1.0	mg/Kg	1.00	03/06/2003 09:35	
Selenium	ND	2.0	mg/Kg	1.00	03/06/2003 09:35	
Silver	ND	1.0	mg/Kg	1.00	03/06/2003 09:35	
Thallium	ND	1.0	mg/Kg	1.00	03/06/2003 09:35	
Vanadium	28	1.0	mg/Kg	1.00	03/06/2003 09:35	
Zinc	30	1.0	mg/Kg	1.00	03/06/2003 09:35	
Mercury	0.15	0.050	mg/Kg	1.00	03/06/2003 09:56	

CAM 17 Metals

Kennedy/Jenks-San Francisco
Attn.: Meredith Durant

622 Folsom Street
San Francisco, CA 94107-1366
Phone: (415) 243-2534 Fax: (415) 896-0999

Project: 000128.00
Praxair

Received: 03/04/2003 16:07

Site: 901 Embarcadero

Prep(s):	3050B 7471A	Test(s):	6010B 7471A
Sample ID:	"7" CONF-2	Lab ID:	2003-03-0046 - 14
Sampled:	03/03/2003 15:40	Extracted:	3/5/2003 12:53 3/5/2003 12:50
Matrix:	Soil	QC Batch#:	2003/03/05-01.16 2003/03/05-03.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Antimony	ND	2.0	mg/Kg	1.00	03/06/2003 09:39	
Arsenic	4.0	1.0	mg/Kg	1.00	03/06/2003 09:39	
Barium	73	1.0	mg/Kg	1.00	03/06/2003 09:39	
Beryllium	ND	0.50	mg/Kg	1.00	03/06/2003 09:39	
Cadmium	2.1	0.50	mg/Kg	1.00	03/06/2003 09:39	
Chromium	47	1.0	mg/Kg	1.00	03/06/2003 09:39	
Cobalt	7.6	1.0	mg/Kg	1.00	03/06/2003 09:39	
Copper	35	1.0	mg/Kg	1.00	03/06/2003 09:39	
Lead	44	1.0	mg/Kg	1.00	03/06/2003 09:39	
Molybdenum	ND	1.0	mg/Kg	1.00	03/06/2003 09:39	
Nickel	39	1.0	mg/Kg	1.00	03/06/2003 09:39	
Selenium	ND	2.0	mg/Kg	1.00	03/06/2003 09:39	
Silver	ND	1.0	mg/Kg	1.00	03/06/2003 09:39	
Thallium	ND	1.0	mg/Kg	1.00	03/06/2003 09:39	
Vanadium	30	1.0	mg/Kg	1.00	03/06/2003 09:39	
Zinc	100	1.0	mg/Kg	1.00	03/06/2003 09:39	
Mercury	1.2	0.050	mg/Kg	1.00	03/06/2003 09:57	

CAM 17 Metals

Kennedy/Jenks-San Francisco
Attn.: Meredith Durant

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San Francisco, CA 94107-1366
Phone: (415) 243-2534 Fax: (415) 896-0999

Project: 000128.00
Praxair

Received: 03/04/2003 16:07

Site: 901 Embarcadero

Prep(s):	3050B 7471A	Test(s):	6010B 7471A
Sample ID:	"7" CONF-3	Lab ID:	2003-03-0046 - 15
Sampled:	03/03/2003 15:42	Extracted:	3/5/2003 12:53 3/5/2003 12:50
Matrix:	Soil	QC Batch#:	2003/03/05-01.16 2003/03/05-03.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Antimony	ND	2.0	mg/Kg	1.00	03/06/2003 09:42	
Arsenic	5.4	1.0	mg/Kg	1.00	03/06/2003 09:42	
Barium	62	1.0	mg/Kg	1.00	03/06/2003 09:42	
Beryllium	ND	0.50	mg/Kg	1.00	03/06/2003 09:42	
Cadmium	2.5	0.50	mg/Kg	1.00	03/06/2003 09:42	
Chromium	20	1.0	mg/Kg	1.00	03/06/2003 09:42	
Cobalt	6.6	1.0	mg/Kg	1.00	03/06/2003 09:42	
Copper	26	1.0	mg/Kg	1.00	03/06/2003 09:42	
Lead	29	1.0	mg/Kg	1.00	03/06/2003 09:42	
Molybdenum	ND	1.0	mg/Kg	1.00	03/06/2003 09:42	
Nickel	17	1.0	mg/Kg	1.00	03/06/2003 09:42	
Selenium	ND	2.0	mg/Kg	1.00	03/06/2003 09:42	
Silver	ND	1.0	mg/Kg	1.00	03/06/2003 09:42	
Thallium	ND	1.0	mg/Kg	1.00	03/06/2003 09:42	
Vanadium	31	1.0	mg/Kg	1.00	03/06/2003 09:42	
Zinc	140	1.0	mg/Kg	1.00	03/06/2003 09:42	
Mercury	0.14	0.050	mg/Kg	1.00	03/06/2003 09:58	

CAM 17 Metals

Kennedy/Jenks-San Francisco
Attn.: Meredith Durant

622 Folsom Street
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Phone: (415) 243-2534 Fax: (415) 896-0999

Project: 000128.00
Praxair

Received: 03/04/2003 16:07

Site: 901 Embarcadero

Prep(s):	3050B 7471A	Test(s):	6010B 7471A
Sample ID:	"7" CONF-4	Lab ID:	2003-03-0046 - 16
Sampled:	03/03/2003 15:44	Extracted:	3/5/2003 12:53 3/5/2003 12:50
Matrix:	Soil	QC Batch#:	2003/03/05-01.16 2003/03/05-03.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Antimony	ND	2.0	mg/Kg	1.00	03/06/2003 09:59	
Arsenic	2.6	1.0	mg/Kg	1.00	03/06/2003 09:59	
Barium	78	1.0	mg/Kg	1.00	03/06/2003 09:59	
Beryllium	ND	0.50	mg/Kg	1.00	03/06/2003 09:59	
Cadmium	1.8	0.50	mg/Kg	1.00	03/06/2003 09:59	
Chromium	19	1.0	mg/Kg	1.00	03/06/2003 09:59	
Cobalt	6.9	1.0	mg/Kg	1.00	03/06/2003 09:59	
Copper	15	1.0	mg/Kg	1.00	03/06/2003 09:59	
Lead	7.5	1.0	mg/Kg	1.00	03/06/2003 09:59	
Molybdenum	ND	1.0	mg/Kg	1.00	03/06/2003 09:59	
Nickel	27	1.0	mg/Kg	1.00	03/06/2003 09:59	
Selenium	ND	2.0	mg/Kg	1.00	03/06/2003 09:59	
Silver	ND	1.0	mg/Kg	1.00	03/06/2003 09:59	
Thallium	ND	1.0	mg/Kg	1.00	03/06/2003 09:59	
Vanadium	27	1.0	mg/Kg	1.00	03/06/2003 09:59	
Zinc	38	1.0	mg/Kg	1.00	03/06/2003 09:59	
Mercury	0.055	0.050	mg/Kg	1.00	03/06/2003 09:59	

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Batch QC Report

Prep(s): 7471A
Method Blank
MB: 2003/03/05-01.16-011

Soil

Test(s): 7471A
QC Batch # 2003/03/05-01.16
Date Extracted: 03/05/2003 12:53

Compound	Conc.	RL	Unit	Analyzed	Flag
Mercury	ND	0.050	mg/Kg	03/06/2003 09:36	

CAM 17 Metals

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Received: 03/04/2003 16:07

Site: 901 Embarcadero

Batch QC Report

Prep(s): 3050B — Test(s): 6010B

Method Blank — **Soil** — **QC Batch # 2003/03/05-03.15**

MB: 2003/03/05-03.15-012 — Date Extracted: 03/05/2003 12:50

Compound	Conc.	RL	Unit	Analyzed	Flag
Antimony	ND	2.0	mg/Kg	03/06/2003 07:57	
Arsenic	ND	1.0	mg/Kg	03/06/2003 07:57	
Barium	ND	1.0	mg/Kg	03/06/2003 07:57	
Beryllium	ND	0.50	mg/Kg	03/06/2003 07:57	
Cadmium	ND	0.50	mg/Kg	03/06/2003 07:57	
Chromium	ND	1.0	mg/Kg	03/06/2003 07:57	
Cobalt	ND	1.0	mg/Kg	03/06/2003 07:57	
Copper	ND	1.0	mg/Kg	03/06/2003 07:57	
Lead	ND	1.0	mg/Kg	03/06/2003 07:57	
Molybdenum	ND	1.0	mg/Kg	03/06/2003 07:57	
Nickel	ND	1.0	mg/Kg	03/06/2003 07:57	
Selenium	ND	2.0	mg/Kg	03/06/2003 07:57	
Silver	ND	1.0	mg/Kg	03/06/2003 07:57	
Thallium	ND	1.0	mg/Kg	03/06/2003 07:57	
Vanadium	ND	1.0	mg/Kg	03/06/2003 07:57	
Zinc	ND	1.0	mg/Kg	03/06/2003 07:57	

CAM 17 Metals

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Project: 000128.00
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Received: 03/04/2003 16:07

Site: 901 Embarcadero

Batch QC Report

Prep(s): 7471A

Test(s): 7471A

Laboratory Control Spike **Soil** **QC Batch # 2003/03/05-01.16**

LCS 2003/03/05-01.16-012 Extracted: 03/05/2003 Analyzed: 03/06/2003 09:37

LCSD 2003/03/05-01.16-013 Extracted: 03/05/2003 Analyzed: 03/06/2003 09:39

Compound	Conc. mg/Kg		Exp.Conc.	Recovery		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Mercury	0.521	0.516	0.500	104.2	103.2	1.0	85-115	20		

CAM 17 Metals

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Project: 000128.00
Praxair

Received: 03/04/2003 16:07

Site: 901 Embarcadero

Batch QC Report

Prep(s): 3050B

Test(s): 6010B

Laboratory Control Spike **Soil** **QC Batch # 2003/03/05-03.15**

LCS 2003/03/05-03.15-013 Extracted: 03/05/2003 Analyzed: 03/06/2003 08:00
LCSD 2003/03/05-03.15-014 Extracted: 03/05/2003 Analyzed: 03/06/2003 08:04

Compound	Conc.	mg/Kg	Exp.Conc.	Recovery		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Antimony	97.3	92.6	100.0	97.3	92.6	4.9	80-120	20		
Arsenic	98.0	93.3	100.0	98.0	93.3	4.9	80-120	20		
Barium	91.0	87.9	100.0	91.0	87.9	3.5	80-120	20		
Beryllium	90.0	86.2	100.0	90.0	86.2	4.3	80-120	20		
Cadmium	90.2	87.0	100.0	90.2	87.0	3.6	80-120	20		
Chromium	88.8	85.8	100.0	88.8	85.8	3.4	80-120	20		
Cobalt	90.8	87.5	100.0	90.8	87.5	3.7	80-120	20		
Copper	93.6	90.5	100.0	93.6	90.5	3.4	80-120	20		
Lead	92.6	87.8	100.0	92.6	87.8	5.3	80-120	20		
Molybdenum	90.1	87.5	100.0	90.1	87.5	2.9	80-120	20		
Nickel	90.5	87.4	100.0	90.5	87.4	3.5	80-120	20		
Selenium	90.1	85.8	100.0	90.1	85.8	4.9	80-120	20		
Silver	90.6	87.6	100.0	90.6	87.6	3.4	80-120	20		
Thallium	90.0	85.6	100.0	90.0	85.6	5.0	80-120	20		
Vanadium	93.3	90.1	100.0	93.3	90.1	3.5	80-120	20		
Zinc	91.6	88.2	100.0	91.6	88.2	3.8	80-120	20		

SEVERN TRENT STL

Submission #: 2003-03-0046

CAM 17 Metals

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Project: 000128.00
Praxair

Received: 03/04/2003 16:07

Site: 901 Embarcadero

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
``7`` CONF-5	03/03/2003 15:45	Soil	17
``7`` CONF-6	03/03/2003 15:49	Soil	18

CAM 17 Metals

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Project: 000128.00
Praxair

Received: 03/04/2003 16:07

Site: 901 Embarcadero

Prep(s):	3050B 7471A	Test(s):	6010B 7471A
Sample ID:	``7`` CONF-5	Lab ID:	2003-03-0046 - 17
Sampled:	03/03/2003 15:45	Extracted:	3/5/2003 15:20 3/5/2003 12:50
Matrix:	Soil	QC Batch#:	2003/03/05-02.16 2003/03/05-03.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Antimony	ND	2.0	mg/Kg	1.00	03/06/2003 10:02	
Arsenic	3.1	1.0	mg/Kg	1.00	03/06/2003 10:02	
Barium	55	1.0	mg/Kg	1.00	03/06/2003 10:02	
Beryllium	ND	0.50	mg/Kg	1.00	03/06/2003 10:02	
Cadmium	1.3	0.50	mg/Kg	1.00	03/06/2003 10:02	
Chromium	34	1.0	mg/Kg	1.00	03/06/2003 10:02	
Cobalt	7.3	1.0	mg/Kg	1.00	03/06/2003 10:02	
Copper	9.2	1.0	mg/Kg	1.00	03/06/2003 10:02	
Lead	14	1.0	mg/Kg	1.00	03/06/2003 10:02	
Molybdenum	ND	1.0	mg/Kg	1.00	03/06/2003 10:02	
Nickel	47	1.0	mg/Kg	1.00	03/06/2003 10:02	
Selenium	ND	2.0	mg/Kg	1.00	03/06/2003 10:02	
Silver	ND	1.0	mg/Kg	1.00	03/06/2003 10:02	
Thallium	ND	1.0	mg/Kg	1.00	03/06/2003 10:02	
Vanadium	26	1.0	mg/Kg	1.00	03/06/2003 10:02	
Zinc	27	1.0	mg/Kg	1.00	03/06/2003 10:02	
Mercury	0.065	0.050	mg/Kg	1.00	03/07/2003 15:24	

CAM 17 Metals

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Project: 000128.00
Praxair

Received: 03/04/2003 16:07

Site: 901 Embarcadero

Prep(s):	3050B 7471A	Test(s):	6010B 7471A
Sample ID:	"7" CONF-6	Lab ID:	2003-03-0046 - 18
Sampled:	03/03/2003 15:49	Extracted:	3/5/2003 15:20 3/5/2003 12:50
Matrix:	Soil	QC Batch#:	2003/03/05-02.16 2003/03/05-03.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Antimony	ND	2.0	mg/Kg	1.00	03/06/2003 10:05	
Arsenic	3.6	1.0	mg/Kg	1.00	03/06/2003 10:05	
Barium	37	1.0	mg/Kg	1.00	03/06/2003 10:05	
Beryllium	ND	0.50	mg/Kg	1.00	03/06/2003 10:05	
Cadmium	1.3	0.50	mg/Kg	1.00	03/06/2003 10:05	
Chromium	36	1.0	mg/Kg	1.00	03/06/2003 10:05	
Cobalt	7.1	1.0	mg/Kg	1.00	03/06/2003 10:05	
Copper	9.3	1.0	mg/Kg	1.00	03/06/2003 10:05	
Lead	8.3	1.0	mg/Kg	1.00	03/06/2003 10:05	
Molybdenum	ND	1.0	mg/Kg	1.00	03/06/2003 10:05	
Nickel	47	1.0	mg/Kg	1.00	03/06/2003 10:05	
Selenium	ND	2.0	mg/Kg	1.00	03/06/2003 10:05	
Silver	ND	1.0	mg/Kg	1.00	03/06/2003 10:05	
Thallium	ND	1.0	mg/Kg	1.00	03/06/2003 10:05	
Vanadium	26	1.0	mg/Kg	1.00	03/06/2003 10:05	
Zinc	26	1.0	mg/Kg	1.00	03/06/2003 10:05	
Mercury	0.055	0.050	mg/Kg	1.00	03/07/2003 15:25	

CAM 17 Metals

Kennedy/Jenks-San Francisco
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Project: 000128.00
Praxair

Received: 03/04/2003 16:07

Site: 901 Embarcadero

Batch QC Report

Prep(s): 7471A
Method Blank
MB: 2003/03/05-02.16-068

Soil

Test(s): 7471A
QC Batch # 2003/03/05-02.16
Date Extracted: 03/05/2003 15:20

Compound	Conc.	RL	Unit	Analyzed	Flag
Mercury	ND	0.050	mg/Kg	03/07/2003 14:53	

CAM 17 Metals

Kennedy/Jenks-San Francisco
Attn.: Meredith Durant

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Project: 000128.00
Praxair

Received: 03/04/2003 16:07

Site: 901 Embarcadero

Batch QC Report

Prep(s): 3050B — Test(s): 6010B
Method Blank — **Soil** — **QC Batch # 2003/03/05-03.15**
MB: 2003/03/05-03.15-012 — Date Extracted: 03/05/2003 12:50

Compound	Conc.	RL	Unit	Analyzed	Flag
Antimony	ND	2.0	mg/Kg	03/06/2003 07:57	
Arsenic	ND	1.0	mg/Kg	03/06/2003 07:57	
Barium	ND	1.0	mg/Kg	03/06/2003 07:57	
Beryllium	ND	0.50	mg/Kg	03/06/2003 07:57	
Cadmium	ND	0.50	mg/Kg	03/06/2003 07:57	
Chromium	ND	1.0	mg/Kg	03/06/2003 07:57	
Cobalt	ND	1.0	mg/Kg	03/06/2003 07:57	
Copper	ND	1.0	mg/Kg	03/06/2003 07:57	
Lead	ND	1.0	mg/Kg	03/06/2003 07:57	
Molybdenum	ND	1.0	mg/Kg	03/06/2003 07:57	
Nickel	ND	1.0	mg/Kg	03/06/2003 07:57	
Selenium	ND	2.0	mg/Kg	03/06/2003 07:57	
Silver	ND	1.0	mg/Kg	03/06/2003 07:57	
Thallium	ND	1.0	mg/Kg	03/06/2003 07:57	
Vanadium	ND	1.0	mg/Kg	03/06/2003 07:57	
Zinc	ND	1.0	mg/Kg	03/06/2003 07:57	

CAM 17 Metals

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Project: 000128.00
Praxair

Received: 03/04/2003 16:07

Site: 901 Embarcadero

Batch QC Report

Prep(s): 7471A

Test(s): 7471A

Laboratory Control Spike | **Soil** | **QC Batch # 2003/03/05-02.16**

LCS 2003/03/05-02.16-069 Extracted: 03/05/2003 Analyzed: 03/07/2003 14:55

LCSD 2003/03/05-02.16-070 Extracted: 03/05/2003 Analyzed: 03/07/2003 14:56

Compound	Conc. mg/Kg		Exp.Conc.	Recovery		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Mercury	0.511	0.512	0.500	102.2	102.4	0.2	85-115	20		

CAM 17 Metals

Kennedy/Jenks-San Francisco
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Project: 000128.00
Praxair

Received: 03/04/2003 16:07

Site: 901 Embarcadero

Batch QC Report

Prep(s): 3050B

Test(s): 6010B

Laboratory Control Spike | **Soil** | **QC Batch # 2003/03/05-03.15**

LCS 2003/03/05-03.15-013 Extracted: 03/05/2003 Analyzed: 03/06/2003 08:00

LCSD 2003/03/05-03.15-014 Extracted: 03/05/2003 Analyzed: 03/06/2003 08:04

Compound	Conc. mg/Kg		Exp.Conc.	Recovery		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Antimony	97.3	92.6	100.0	97.3	92.6	4.9	80-120	20		
Arsenic	98.0	93.3	100.0	98.0	93.3	4.9	80-120	20		
Barium	91.0	87.9	100.0	91.0	87.9	3.5	80-120	20		
Beryllium	90.0	86.2	100.0	90.0	86.2	4.3	80-120	20		
Cadmium	90.2	87.0	100.0	90.2	87.0	3.6	80-120	20		
Chromium	88.8	85.8	100.0	88.8	85.8	3.4	80-120	20		
Cobalt	90.8	87.5	100.0	90.8	87.5	3.7	80-120	20		
Copper	93.6	90.5	100.0	93.6	90.5	3.4	80-120	20		
Lead	92.6	87.8	100.0	92.6	87.8	5.3	80-120	20		
Molybdenum	90.1	87.5	100.0	90.1	87.5	2.9	80-120	20		
Nickel	90.5	87.4	100.0	90.5	87.4	3.5	80-120	20		
Selenium	90.1	85.8	100.0	90.1	85.8	4.9	80-120	20		
Silver	90.6	87.6	100.0	90.6	87.6	3.4	80-120	20		
Thallium	90.0	85.6	100.0	90.0	85.6	5.0	80-120	20		
Vanadium	93.3	90.1	100.0	93.3	90.1	3.5	80-120	20		
Zinc	91.6	88.2	100.0	91.6	88.2	3.8	80-120	20		

SEVERN TRENT STL

Submission #: 2003-03-0046

Mercury (Hg)

Kennedy/Jenks-San Francisco
Attn.: Meredith Durant

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Phone: (415) 243-2534 Fax: (415) 896-0999

Project: 000128.00
Praxair

Received: 03/04/2003 16:07

Site: 901 Embarcadero

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
``11`` CONF-1	03/03/2003 12:05	Soil	7
``11`` CONF-2	03/03/2003 12:10	Soil	8
``11`` CONF-3	03/03/2003 12:12	Soil	9
``11`` CONF-4	03/03/2003 12:15	Soil	10
``11`` CONF-5	03/03/2003 12:17	Soil	11
``11`` CONF-6	03/03/2003 12:25	Soil	12

Mercury (Hg)

Kennedy/Jenks-San Francisco
Attn.: Meredith Durant

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Phone: (415) 243-2534 Fax: (415) 896-0999

Project: 000128.00
Praxair

Received: 03/04/2003 16:07

Site: 901 Embarcadero

Prep(s):	7471A	Test(s):	7471A
Sample ID:	`11` CONF-1	Lab ID:	2003-03-0046 - 7
Sampled:	03/03/2003 12:05	Extracted:	3/5/2003 15:20
Matrix:	Soil	QC Batch#:	2003/03/05-02.16

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Mercury	1.4	0.050	mg/Kg	1.00	03/07/2003 15:14	

Mercury (Hg)

Kennedy/Jenks-San Francisco
Attn.: Meredith Durant

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Project: 000128.00
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Received: 03/04/2003 16:07

Site: 901 Embarcadero

Prep(s):	7471A	Test(s):	7471A
Sample ID:	``11`` CONF-2	Lab ID:	2003-03-0046 - 8
Sampled:	03/03/2003 12:10	Extracted:	3/5/2003 15:20
Matrix:	Soil	QC Batch#:	2003/03/05-02.16

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Mercury	4.9	0.50	mg/Kg	10.00	03/07/2003 15:50	

Mercury (Hg)

Kennedy/Jenks-San Francisco
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Received: 03/04/2003 16:07

Site: 901 Embarcadero

Prep(s):	7471A	Test(s):	7471A
Sample ID:	``11`` CONF-3	Lab ID:	2003-03-0046 - 9
Sampled:	03/03/2003 12:12	Extracted:	3/5/2003 15:20
Matrix:	Soil	QC Batch#:	2003/03/05-02.16

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Mercury	2.3	0.50	mg/Kg	10.00	03/07/2003 15:52	

Mercury (Hg)

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Project: 000128.00
Praxair

Received: 03/04/2003 16:07

Site: 901 Embarcadero

Prep(s):	7471A	Test(s):	7471A
Sample ID:	``11`` CONF-4	Lab ID:	2003-03-0046 - 10
Sampled:	03/03/2003 12:15	Extracted:	3/5/2003 15:20
Matrix:	Soil	QC Batch#:	2003/03/05-02.16

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Mercury	0.19	0.050	mg/Kg	1.00	03/07/2003 15:18	

Mercury (Hg)

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Received: 03/04/2003 16:07

Site: 901 Embarcadero

Prep(s):	7471A	Test(s):	7471A
Sample ID:	"11" CONF-5	Lab ID:	2003-03-0046 - 11
Sampled:	03/03/2003 12:17	Extracted:	3/5/2003 15:20
Matrix:	Soil	QC Batch#:	2003/03/05-02.16

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Mercury	4.2	0.50	mg/Kg	10.00	03/07/2003 15:53	

Mercury (Hg)

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Site: 901 Embarcadero

Prep(s):	7471A	Test(s):	7471A
Sample ID:	"11" CONF-6	Lab ID:	2003-03-0046 - 12
Sampled:	03/03/2003 12:25	Extracted:	3/5/2003 15:20
Matrix:	Soil	QC Batch#:	2003/03/05-02.16

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Mercury	0.082	0.050	mg/Kg	1.00	03/07/2003 15:23	

Mercury (Hg)

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Site: 901 Embarcadero

Batch QC Report

Prep(s): 7471A
Method Blank
MB: 2003/03/05-02.16-068

Soil

Test(s): 7471A
QC Batch # 2003/03/05-02.16
Date Extracted: 03/05/2003 15:20

Compound	Conc.	RL	Unit	Analyzed	Flag
Mercury	ND	0.050	mg/Kg	03/07/2003 14:53	

Mercury (Hg)

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Received: 03/04/2003 16:07

Site: 901 Embarcadero

Batch QC Report

Prep(s): 7471A

Test(s): 7471A

Laboratory Control Spike **Soil** **QC Batch # 2003/03/05-02.16**

LCS 2003/03/05-02.16-069 Extracted: 03/05/2003 Analyzed: 03/07/2003 14:55

LCSD 2003/03/05-02.16-070 Extracted: 03/05/2003 Analyzed: 03/07/2003 14:56

Compound	Conc. mg/Kg		Exp.Conc.	Recovery		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Mercury	0.511	0.512	0.500	102.2	102.4	0.2	85-115	20		

SEVERN TRENT STL

Submission #: 2003-03-0046

pH

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Received: 03/04/2003 16:07

Site: 901 Embarcadero

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
``11`` CONF-1	03/03/2003 12:05	Soil	7
``11`` CONF-2	03/03/2003 12:10	Soil	8
``11`` CONF-3	03/03/2003 12:12	Soil	9
``11`` CONF-4	03/03/2003 12:15	Soil	10
``11`` CONF-5	03/03/2003 12:17	Soil	11
``11`` CONF-6	03/03/2003 12:25	Soil	12
``7`` CONF-1	03/03/2003 15:35	Soil	13
``7`` CONF-2	03/03/2003 15:40	Soil	14
``7`` CONF-3	03/03/2003 15:42	Soil	15
``7`` CONF-4	03/03/2003 15:44	Soil	16
``7`` CONF-5	03/03/2003 15:45	Soil	17
``7`` CONF-6	03/03/2003 15:49	Soil	18

pH

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Site: 901 Embarcadero

Prep(s):	9045C	Test(s):	9045C
Sample ID:	``11`` CONF-1	Lab ID:	2003-03-0046 - 7
Sampled:	03/03/2003 12:05	Extracted:	3/6/2003 00:00
Matrix:	Soil	QC Batch#:	2003/03/06-03.22

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
pH	8.1	0.1	SU	1.00	03/06/2003	

pH

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Received: 03/04/2003 16:07

Site: 901 Embarcadero

Prep(s):	9045C	Test(s):	9045C
Sample ID:	``11`` CONF-2	Lab ID:	2003-03-0046 - 8
Sampled:	03/03/2003 12:10	Extracted:	3/6/2003 00:00
Matrix:	Soil	QC Batch#:	2003/03/06-03.22

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
pH	8.6	0.1	SU	1.00	03/06/2003	

pH

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Received: 03/04/2003 16:07

Site: 901 Embarcadero

Prep(s):	9045C	Test(s):	9045C
Sample ID:	``11`` CONF-3	Lab ID:	2003-03-0046 - 9
Sampled:	03/03/2003 12:12	Extracted:	3/6/2003 00:00
Matrix:	Soil	QC Batch#:	2003/03/06-03.22

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
pH	8.4	0.1	SU	1.00	03/06/2003	

pH

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Received: 03/04/2003 16:07

Site: 901 Embarcadero

Prep(s):	9045C	Test(s):	9045C
Sample ID:	``11`` CONF-4	Lab ID:	2003-03-0046 - 10
Sampled:	03/03/2003 12:15	Extracted:	3/6/2003 00:00
Matrix:	Soil	QC Batch#:	2003/03/06-03.22

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
pH	8.3	0.1	SU	1.00	03/06/2003	

pH

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Received: 03/04/2003 16:07

Site: 901 Embarcadero

Prep(s):	9045C	Test(s):	9045C
Sample ID:	"11" CONF-5	Lab ID:	2003-03-0046 - 11
Sampled:	03/03/2003 12:17	Extracted:	3/6/2003 00:00
Matrix:	Soil	QC Batch#:	2003/03/06-03.22

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
pH	8.7	0.1	SU	1.00	03/06/2003	

pH

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Received: 03/04/2003 16:07

Site: 901 Embarcadero

Prep(s):	9045C	Test(s):	9045C
Sample ID:	``11`` CONF-6	Lab ID:	2003-03-0046 - 12
Sampled:	03/03/2003 12:25	Extracted:	3/6/2003 00:00
Matrix:	Soil	QC Batch#:	2003/03/06-03.22

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
pH	8.1	0.1	SU	1.00	03/06/2003	

pH

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Received: 03/04/2003 16:07

Site: 901 Embarcadero

Prep(s):	9045C	Test(s):	9045C
Sample ID:	``7`` CONF-1	Lab ID:	2003-03-0046 - 13
Sampled:	03/03/2003 15:35	Extracted:	3/6/2003 00:00
Matrix:	Soil	QC Batch#:	2003/03/06-03.22

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
pH	7.6	0.1	SU	1.00	03/06/2003	

pH

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Received: 03/04/2003 16:07

Site: 901 Embarcadero

Prep(s):	9045C	Test(s):	9045C
Sample ID:	``7`` CONF-2	Lab ID:	2003-03-0046 - 14
Sampled:	03/03/2003 15:40	Extracted:	3/6/2003 00:00
Matrix:	Soil	QC Batch#:	2003/03/06-03.22

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
pH	7.8	0.1	SU	1.00	03/06/2003	

pH

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Received: 03/04/2003 16:07

Site: 901 Embarcadero

Prep(s):	9045C	Test(s):	9045C
Sample ID:	"7" CONF-3	Lab ID:	2003-03-0046 - 15
Sampled:	03/03/2003 15:42	Extracted:	3/6/2003 00:00
Matrix:	Soil	QC Batch#:	2003/03/06-03.22

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
pH	7.9	0.1	SU	1.00	03/06/2003	

pH

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Project: 000128.00
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Received: 03/04/2003 16:07

Site: 901 Embarcadero

Prep(s):	9045C	Test(s):	9045C
Sample ID:	``7`` CONF-4	Lab ID:	2003-03-0046 - 16
Sampled:	03/03/2003 15:44	Extracted:	3/6/2003 00:00
Matrix:	Soil	QC Batch#:	2003/03/06-03.22

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
pH	7.9	0.1	SU	1.00	03/06/2003	

pH

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Project: 000128.00
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Received: 03/04/2003 16:07

Site: 901 Embarcadero

Prep(s):	9045C	Test(s):	9045C
Sample ID:	``7`` CONF-5	Lab ID:	2003-03-0046 - 17
Sampled:	03/03/2003 15:45	Extracted:	3/6/2003 00:00
Matrix:	Soil	QC Batch#:	2003/03/06-03.22

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
pH	7.6	0.1	SU	1.00	03/06/2003	

pH

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Project: 000128.00
Praxair

Received: 03/04/2003 16:07

Site: 901 Embarcadero

Prep(s):	9045C	Test(s):	9045C
Sample ID:	``7`` CONF-6	Lab ID:	2003-03-0046 - 18
Sampled:	03/03/2003 15:49	Extracted:	3/6/2003 00:00
Matrix:	Soil	QC Batch#:	2003/03/06-03.22

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
pH	7.5	0.1	SU	1.00	03/06/2003	

pH

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Project: 000128.00
Praxair

Received: 03/04/2003 16:07

Site: 901 Embarcadero

Batch QC Report

Prep(s): 9045C
Method Blank
MB: 2003/03/06-03.22-001

Soil

Test(s): 9045C
QC Batch # 2003/03/06-03.22
Date Extracted: 03/06/2003

Compound	Conc.	RL	Unit	Analyzed	Flag
pH	7.02	0.1	SU	03/06/2003	

SEVERN TRENT STL

Submission #: 2003-03-0046

Total Extractable Petroleum Hydrocarbons (TEPH)

Kennedy/Jenks-San Francisco
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Project: 000128.00
Praxair

Received: 03/04/2003 16:07

Site: 901 Embarcadero

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
``13`` CONF-1	03/03/2003 10:23	Soil	1
``13`` CONF-2	03/03/2003 10:25	Soil	2
``13`` CONF-3	03/03/2003 10:28	Soil	3
``13`` CONF-4	03/03/2003 10:30	Soil	4
``13`` CONF-5	03/03/2003 10:33	Soil	5
``13`` CONF-6	03/03/2003 10:35	Soil	6
``7`` CONF-1	03/03/2003 15:35	Soil	13
``7`` CONF-2	03/03/2003 15:40	Soil	14
``7`` CONF-3	03/03/2003 15:42	Soil	15
``7`` CONF-4	03/03/2003 15:44	Soil	16
``7`` CONF-5	03/03/2003 15:45	Soil	17
``7`` CONF-6	03/03/2003 15:49	Soil	18

SEVERN TRENT STL

Submission #: 2003-03-0046

Total Extractable Petroleum Hydrocarbons (TEPH)

Kennedy/Jenks-San Francisco
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Project: 000128.00
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Received: 03/04/2003 16:07

Site: 901 Embarcadero

Prep(s):	3550/8015M	Test(s):	8015M
Sample ID:	``13`` CONF-1	Lab ID:	2003-03-0046 - 1
Sampled:	03/03/2003 10:23	Extracted:	3/5/2003 09:05
Matrix:	Soil	QC Batch#:	2003/03/05-02.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	12	1.0	mg/Kg	1.00	03/05/2003 20:21	ndp
Motor Oil	160	50	mg/Kg	1.00	03/05/2003 20:21	
Surrogates(s)						
o-Terphenyl	88.5	60-130	%	1.00	03/05/2003 20:21	

Total Extractable Petroleum Hydrocarbons (TEPH)

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Site: 901 Embarcadero

Prep(s):	3550/8015M	Test(s):	8015M
Sample ID:	``13`` CONF-2	Lab ID:	2003-03-0046 - 2
Sampled:	03/03/2003 10:25	Extracted:	3/5/2003 09:05
Matrix:	Soil	QC Batch#:	2003/03/05-02.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	53	5.0	mg/Kg	5.00	03/07/2003 13:07	ndp
Motor Oil	680	250	mg/Kg	5.00	03/07/2003 13:07	
Surrogates(s)						
o-Terphenyl	NA	60-130	%	5.00	03/07/2003 13:07	sd

Total Extractable Petroleum Hydrocarbons (TEPH)

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Project: 000128.00
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Received: 03/04/2003 16:07

Site: 901 Embarcadero

Prep(s):	3550/8015M	Test(s):	8015M
Sample ID:	``13`` CONF-3	Lab ID:	2003-03-0046 - 3
Sampled:	03/03/2003 10:28	Extracted:	3/5/2003 09:05
Matrix:	Soil	QC Batch#:	2003/03/05-02.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	75	10	mg/Kg	10.00	03/07/2003 11:53	ndp
Motor Oil	710	500	mg/Kg	10.00	03/07/2003 11:53	
Surrogates(s)						
o-Terphenyl	NA	60-130	%	10.00	03/07/2003 11:53	sd

Total Extractable Petroleum Hydrocarbons (TEPH)

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Received: 03/04/2003 16:07

Site: 901 Embarcadero

Prep(s):	3550/8015M	Test(s):	8015M
Sample ID:	"13" CONF-4	Lab ID:	2003-03-0046 - 4
Sampled:	03/03/2003 10:30	Extracted:	3/5/2003 09:05
Matrix:	Soil	QC Batch#:	2003/03/05-02.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	190	20	mg/Kg	20.00	03/07/2003 03:52	ndp
Motor Oil	2000	1000	mg/Kg	20.00	03/07/2003 03:52	
Surrogates(s)						
o-Terphenyl	NA	60-130	%	20.00	03/07/2003 03:52	sd

Total Extractable Petroleum Hydrocarbons (TEPH)

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Site: 901 Embarcadero

Prep(s):	3550/8015M	Test(s):	8015M
Sample ID:	**``13`` CONF-5**	Lab ID:	2003-03-0046 - 5
Sampled:	03/03/2003 10:33	Extracted:	3/5/2003 09:05
Matrix:	Soil	QC Batch#:	2003/03/05-02.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	52	5.0	mg/Kg	5.00	03/07/2003 13:44	ndp
Motor Oil	560	250	mg/Kg	5.00	03/07/2003 13:44	
Surrogates(s)						
o-Terphenyl	NA	60-130	%	5.00	03/07/2003 13:44	sd

Total Extractable Petroleum Hydrocarbons (TEPH)

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Site: 901 Embarcadero

Prep(s):	3550/8015M	Test(s):	8015M
Sample ID:	``13`` CONF-6	Lab ID:	2003-03-0046 - 6
Sampled:	03/03/2003 10:35	Extracted:	3/5/2003 09:05
Matrix:	Soil	QC Batch#:	2003/03/05-02.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	81	10	mg/Kg	10.00	03/07/2003 12:30	ndp
Motor Oil	760	500	mg/Kg	10.00	03/07/2003 12:30	
Surrogates(s)						
o-Terphenyl	NA	60-130	%	10.00	03/07/2003 12:30	sd

Total Extractable Petroleum Hydrocarbons (TEPH)

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Site: 901 Embarcadero

Prep(s):	3550/8015M	Test(s):	8015M
Sample ID:	"7" CONF-1	Lab ID:	2003-03-0046 - 13
Sampled:	03/03/2003 15:35	Extracted:	3/5/2003 09:05
Matrix:	Soil	QC Batch#:	2003/03/05-02.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	4.5	1.0	mg/Kg	1.00	03/05/2003 21:01	ndp
Motor Oil	ND	50	mg/Kg	1.00	03/05/2003 21:01	
Surrogates(s)						
o-Terphenyl	87.5	60-130	%	1.00	03/05/2003 21:01	

Total Extractable Petroleum Hydrocarbons (TEPH)

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Received: 03/04/2003 16:07

Site: 901 Embarcadero

Prep(s):	3550/8015M	Test(s):	8015M
Sample ID:	``7`` CONF-2	Lab ID:	2003-03-0046 - 14
Sampled:	03/03/2003 15:40	Extracted:	3/5/2003 09:05
Matrix:	Soil	QC Batch#:	2003/03/05-02.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	61	5.0	mg/Kg	5.00	03/07/2003 14:22	ndp
Motor Oil	680	250	mg/Kg	5.00	03/07/2003 14:22	
Surrogates(s)						
o-Terphenyl	NA	60-130	%	5.00	03/07/2003 14:22	sd

Total Extractable Petroleum Hydrocarbons (TEPH)

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Received: 03/04/2003 16:07

Site: 901 Embarcadero

Prep(s):	3550/8015M	Test(s):	8015M
Sample ID:	"7" CONF-3	Lab ID:	2003-03-0046 - 15
Sampled:	03/03/2003 15:42	Extracted:	3/5/2003 09:05
Matrix:	Soil	QC Batch#:	2003/03/05-02.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	98	10	mg/Kg	10.00	03/07/2003 03:15	ndp
Motor Oil	790	500	mg/Kg	10.00	03/07/2003 03:15	
Surrogates(s)						
o-Terphenyl	NA	60-130	%	10.00	03/07/2003 03:15	sd

Total Extractable Petroleum Hydrocarbons (TEPH)

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Praxair

Received: 03/04/2003 16:07

Site: 901 Embarcadero

Prep(s):	3550/8015M	Test(s):	8015M
Sample ID:	"7" CONF-4	Lab ID:	2003-03-0046 - 16
Sampled:	03/03/2003 15:44	Extracted:	3/5/2003 09:05
Matrix:	Soil	QC Batch#:	2003/03/05-02.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	2.2	1.0	mg/Kg	1.00	03/05/2003 19:40	ndp
Motor Oil	ND	50	mg/Kg	1.00	03/05/2003 19:40	
Surrogates(s)						
o-Terphenyl	88.4	60-130	%	1.00	03/05/2003 19:40	

Total Extractable Petroleum Hydrocarbons (TEPH)

Kennedy/Jenks-San Francisco
Attn.: Meredith Durant

622 Folsom Street
San Francisco, CA 94107-1366
Phone: (415) 243-2534 Fax: (415) 896-0999

Project: 000128.00
Praxair

Received: 03/04/2003 16:07

Site: 901 Embarcadero

Prep(s):	3550/8015M	Test(s):	8015M
Sample ID:	`7`` CONF-5	Lab ID:	2003-03-0046 - 17
Sampled:	03/03/2003 15:45	Extracted:	3/5/2003 09:05
Matrix:	Soil	QC Batch#:	2003/03/05-02.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	1.6	1.0	mg/Kg	1.00	03/05/2003 19:00	ndp
Motor Oil	ND	50	mg/Kg	1.00	03/05/2003 19:00	
Surrogates(s)						
o-Terphenyl	81.8	60-130	%	1.00	03/05/2003 19:00	

Total Extractable Petroleum Hydrocarbons (TEPH)

Kennedy/Jenks-San Francisco
Attn.: Meredith Durant

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San Francisco, CA 94107-1366
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Project: 000128.00
Praxair

Received: 03/04/2003 16:07

Site: 901 Embarcadero

Prep(s):	3550/8015M	Test(s):	8015M
Sample ID:	``7`` CONF-6	Lab ID:	2003-03-0046 - 18
Sampled:	03/03/2003 15:49	Extracted:	3/5/2003 09:05
Matrix:	Soil	QC Batch#:	2003/03/05-02.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	1.2	1.0	mg/Kg	1.00	03/05/2003 18:19	ndp
Motor Oil	ND	50	mg/Kg	1.00	03/05/2003 18:19	
Surrogates(s)						
o-Terphenyl	88.6	60-130	%	1.00	03/05/2003 18:19	

Total Extractable Petroleum Hydrocarbons (TEPH)

Kennedy/Jenks-San Francisco
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Phone: (415) 243-2534 Fax: (415) 896-0999

Project: 000128.00
Praxair

Received: 03/04/2003 16:07

Site: 901 Embarcadero

Batch QC Report

Prep(s): 3550/8015M
Method Blank
MB: 2003/03/05-02.10-003

Soil

Test(s): 8015M
QC Batch # 2003/03/05-02.10
Date Extracted: 03/05/2003 09:05

Compound	Conc.	RL	Unit	Analyzed	Flag
Diesel	ND	1	mg/Kg	03/05/2003 15:51	
Motor Oil	ND	50	mg/Kg	03/05/2003 15:51	
Surrogates(s)					
o-Terphenyl	90.2	60-130	%	03/05/2003 15:51	

Total Extractable Petroleum Hydrocarbons (TEPH)

Kennedy/Jenks-San Francisco

Attn.: Meredith Durant

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San Francisco, CA 94107-1366
Phone: (415) 243-2534 Fax: (415) 896-0999

Project: 000128.00
Praxair

Received: 03/04/2003 16:07

Site: 901 Embarcadero

Batch QC Report

Prep(s): 3550/8015M

Test(s): 8015M

Laboratory Control Spike | **Soil** | **QC Batch # 2003/03/05-02.10**

LCS 2003/03/05-02.10-001 Extracted: 03/05/2003 Analyzed: 03/05/2003 13:59

LCSD 2003/03/05-02.10-002 Extracted: 03/05/2003 Analyzed: 03/05/2003 15:51

Compound	Conc. mg/Kg		Exp.Conc.	Recovery		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Diesel	43.1	41.8	41.4	104.1	101.0	3.0	60-130	25		
Surrogates(s)										
o-Terphenyl	20.5	19.8	20.0	102.3	98.9		60-130	0		

Total Extractable Petroleum Hydrocarbons (TEPH)

Kennedy/Jenks-San Francisco
Attn.: Meredith Durant

622 Folsom Street
San Francisco, CA 94107-1366
Phone: (415) 243-2534 Fax: (415) 896-0999

Project: 000128.00
Praxair

Received: 03/04/2003 16:07

Site: 901 Embarcadero

Legend and Notes

Result Flag

ndp

Hydrocarbon reported does not match the pattern of our Diesel standard

sd

Surrogate recovery not reportable due to required dilution.

72 9

Sample Chain-of-Custody/Analysis Request 2003-03-0046 Kennedy/Jenks Consultants

PAGE 1/2

Possible Hazards: Analytes

Client: Proxai

Site: 901 Embarcadero

Project No.: 000128.00

Sampler Name: M. McLeod

Telephone: 415-243-2508

Report to: M. DURANT

Company: KJ

Address: 622 FOLSOM SF

Fax: 415-896-0999

Lab Destination: STL

Address: 1220 Quarry Pleasant

Telephone: 415 925-484-1919

Carrier/Way Bill No.: n/a

[illegible]	[illegible]	Collection Date	Collection Time	(2) Type	Depth	(3) Comp	(4) Pres.	Turn-around	Hg (EPA 7471A)	pH (EPA 9045)	[illegible]	TPH-d/mo (EPA 8015M)	CAM 17 Metals					Comment/Conditions (container type, container number, etc.)
	"13" CONF-1	3/3/03	1023	S	n/a	NO	4°C	72HR				X	X					
	"13" CONF-2		1025									X	X					
	"13" CONF-3		1028									X	X					
	"13"-CONF-4		1030									X	X					
	"13" CONF-5		1033									X	X					
	"13 CONF-6		1035									X	X					RUSH
	"11" CONF-1		1205						X	X								
	"11" CONF-2		1210						X	X								
	"11" CONF-3		1212						X	X								
	"11" CONF-4		1215						X	X								
	"11" CONF-5		1217						X	X								
	"11" CONF-6		1225						X	X								

(1) Write only one sample number in each space.
(2) Specify type of sample(s): Water (W), Solid (S), or indicate type.
(3) Mark each sample which should be composited in Laboratory as follows: Place an "A" in box for each sample that should be composited into one sample; use sequential letter for additional groups.
(4) Preservation of sample.
(5) Write each analysis requested across top. Place an "X" in appropriate column to indicate type of analysis needed for each sample.

Sample Relinquished By: Print Name	Signature	Company	Date	Time	Sample Received By: Print Name	Signature	Company	Date	Time
Mike McLeod	[signature]	K/J	3/4	1140	Vincent Vanni	[signature]	SR-SF	3/4/03	11:40
Vincent Vnn	[signature]	SR	3/4/03	KCr					
					Nouna K.	Nouna K	STL-SF	3/4/03	11:07

2003-03-0046

Sample Chain-of-Custody/Analysis Request — Kennedy/Jenks Consultants

PAGE 2/2

Possible Hazards: Analytes

Client: Prosa
Site: 901 Embarcadero
Project No. 000128.00
Sampler Name: M. McLeod
Telephone: 415-243-2508

Report to: M. DURANT
Company: K/J
Address: 622 Folsom, SF
Fax: 415-896-0999

Lab Destination: STL
Address: 1220 Quarry, Pleasanton
Telephone: 925-484-1919
Carrier/Way Bill No.: n/a

Sample No.	(1) Client ID No.	Collection Date	Collection Time	(2) Type	Conc	(3) Comp	(4) Pres.	Turn-around	TPH g mo (CAM 5015)	CAM 17 metals	pH						Comment/Conditions (container type, container number, etc.)
	"7" CONF-1	3/3	1535	S	N/A	No	4°C	72HR	X	X	X						
	"7" CONF-2	↓	1540	↓	↓	↓	↓	↓	↓	↓	↓						
	"7" CONF-3	↓	1542	↓	↓	↓	↓	↓	↓	↓	↓						RUSH
	"7" CONF-4	↓	1544	↓	↓	↓	↓	↓	↓	↓	↓						
	"7" CONF-5	↓	1545	↓	↓	↓	↓	↓	↓	↓	↓						
	"7" CONF-6	↓	1549	↓	↓	↓	↓	↓	↓	↓	↓						
	"11" CONF-7	↓	1620	↓	↓	↓	↓	↓									HOLD

(1) Write only one sample number in each space.
(2) Specify type of sample(s): Water (W), Solid (S), or indicate type.
(3) Mark each sample which should be composited in Laboratory as follows: Place an "A" in box for each sample that should be composited into one sample; use sequential letter for additional groups.
(4) Preservation of sample.
(5) Write each analysis requested across top. Place an "X" in appropriate column to indicate type of analysis needed for each sample.

Sample Relinquished By: Print Name	Signature	Company	Date	Time	Sample Received By: Print Name	Signature	Company	Date	Time
Mike McLeod	Mike McLeod	K/J	3/4	1140	Vincent Vanvel	[signature]	STL-SF	3/4/03	11:40
[signature]	Vincent Vn	STL	3/4/03	1607					
					Nouna K.	Nouna K.	STL-SF	3/4/03	1607

STL

STL San Francisco

Sample Receipt Checklist

Submission #:2003- 03 - 0046

Checklist completed by: (initials) NK Date: 03/04 /03

Courier name: ☑ STL San Francisco ☐ Client _____

Custody seals intact on shipping container/samples	Yes___ No___	Not Present ✓
Chain of custody present?	Yes ✓ No___	
Chain of custody signed when relinquished and received?	Yes ✓ No___	
Chain of custody agrees with sample labels?	Yes ✓ No___	
Samples in proper container/bottle?	Yes ✓ No___	
Sample containers intact?	Yes ✓ No___	
Sufficient sample volume for indicated test?	Yes ✓ No___	
All samples received within holding time?	Yes ✓ No___	
Container/Temp Blank temperature in compliance (4^{o} C ± 2)?	Temp: 4.3 °C Yes ✓ No___	
Water - VOA vials have zero headspace?	No VOA vials submitted ✓ Yes___ No___	

(if bubble is present, refer to approximate bubble size and itemize in comments as **S** (small ~O), **M** (medium ~ O) or **L** (large ~ O)

Water - **pH acceptable upon receipt?** ☐ Yes ☐ No

☐ **pH adjusted**– Preservative used: ☐ HNO_3 ☐ HCl ☐ H_2SO_4 ☐ NaOH ☐ ZnOAc

For any item check-listed "No", provided detail of discrepancy in comment section below:

Comments:

Project Management [Routing for instruction of indicated discrepancy(ies)]

Project Manager: (initials) _____ Date: _____/_____/03

Client contacted: ☐ Yes ☐ No

Summary of discussion:

Corrective Action (per PM/Client):

Soil Stockpile Samples

SEVERN TRENT STL

Submission#: 2003-03-0047

Kennedy/Jenks-San Francisco

March 10, 2003

622 Folsom Street
San Francisco, CA 94107-1366
Attn.: Meredith Durant

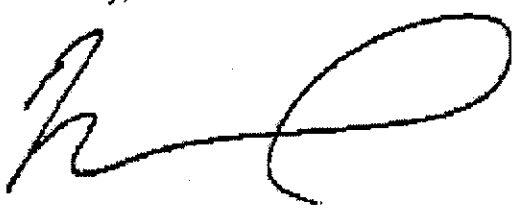
Project#: 000128.00
Project: Praxair
Site: 901 Embarcadero

Dear Meredith,

Attached is our report for your samples received on 03/04/2003 16:07
This report has been reviewed and approved for release. Reproduction of this report is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after 04/18/2003 unless you have requested otherwise.
We appreciate the opportunity to be of service to you. If you have any questions, please call me at (925) 484-1919.
You can also contact me via email. My email address is: vvancil@stl-inc.com

Sincerely,



Vincent Vancil
Project Manager

SEVERN TRENT STL

Submission #: 2003-03-0047

CAM 17 Metals

Kennedy/Jenks-San Francisco
Attn.: Meredith Durant

622 Folsom Street
San Francisco, CA 94107-1366
Phone: (415) 243-2534 Fax: (415) 896-0999

Project: 000128.00
Praxair

Received: 03/04/2003 16:07

Site: 901 Embarcadero

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
``13`` STOCKPILE	03/04/2003 10:15	Soil	1
``11`` STOCKPILE	03/04/2003 10:00	Soil	2
``7`` STOCKPILE	03/04/2003 15:20	Soil	3

CAM 17 Metals

Kennedy/Jenks-San Francisco
Attn.: Meredith Durant

622 Folsom Street
San Francisco, CA 94107-1366
Phone: (415) 243-2534 Fax: (415) 896-0999

Project: 000128.00
Praxair

Received: 03/04/2003 16:07

Site: 901 Embarcadero

Prep(s):	3050B 7471A	Test(s):	6010B 7471A
Sample ID:	"13" STOCKPILE	Lab ID:	2003-03-0047 - 1
Sampled:	03/04/2003 10:15	Extracted:	3/5/2003 12:53 3/5/2003 12:50
Matrix:	Soil	QC Batch#:	2003/03/05-01.16 2003/03/05-03.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Antimony	ND	2.0	mg/Kg	1.00	03/06/2003 10:09	
Arsenic	13	1.0	mg/Kg	1.00	03/06/2003 10:09	
Barium	100	1.0	mg/Kg	1.00	03/06/2003 10:09	
Beryllium	ND	0.50	mg/Kg	1.00	03/06/2003 10:09	
Cadmium	5.8	0.50	mg/Kg	1.00	03/06/2003 10:09	
Chromium	83	1.0	mg/Kg	1.00	03/06/2003 10:09	
Cobalt	7.1	1.0	mg/Kg	1.00	03/06/2003 10:09	
Copper	88	1.0	mg/Kg	1.00	03/06/2003 10:09	
Lead	120	1.0	mg/Kg	1.00	03/06/2003 10:09	
Molybdenum	8.6	1.0	mg/Kg	1.00	03/06/2003 10:09	
Nickel	38	1.0	mg/Kg	1.00	03/06/2003 10:09	
Selenium	ND	2.0	mg/Kg	1.00	03/06/2003 10:09	
Silver	ND	1.0	mg/Kg	1.00	03/06/2003 10:09	
Thallium	ND	1.0	mg/Kg	1.00	03/06/2003 10:09	
Vanadium	22	1.0	mg/Kg	1.00	03/06/2003 10:09	
Zinc	370	1.0	mg/Kg	1.00	03/06/2003 10:09	
Mercury	0.37	0.050	mg/Kg	1.00	03/06/2003 10:00	

CAM 17 Metals

Kennedy/Jenks-San Francisco
Attn.: Meredith Durant

622 Folsom Street
San Francisco, CA 94107-1366
Phone: (415) 243-2534 Fax: (415) 896-0999

Project: 000128.00
Praxair

Received: 03/04/2003 16:07

Site: 901 Embarcadero

Prep(s):	3050B 7471A	Test(s):	6010B 7471A
Sample ID:	**``11`` STOCKPILE**	Lab ID:	2003-03-0047 - 2
Sampled:	03/04/2003 10:00	Extracted:	3/5/2003 15:20 3/5/2003 12:50
Matrix:	Soil	QC Batch#:	2003/03/05-02.16 2003/03/05-03.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Antimony	ND	2.0	mg/Kg	1.00	03/06/2003 10:12	
Arsenic	5.9	1.0	mg/Kg	1.00	03/06/2003 10:12	
Barium	66	1.0	mg/Kg	1.00	03/06/2003 10:12	
Beryllium	ND	0.50	mg/Kg	1.00	03/06/2003 10:12	
Cadmium	1.8	0.50	mg/Kg	1.00	03/06/2003 10:12	
Chromium	42	1.0	mg/Kg	1.00	03/06/2003 10:12	
Cobalt	6.3	1.0	mg/Kg	1.00	03/06/2003 10:12	
Copper	40	1.0	mg/Kg	1.00	03/06/2003 10:12	
Lead	59	1.0	mg/Kg	1.00	03/06/2003 10:12	
Molybdenum	ND	1.0	mg/Kg	1.00	03/06/2003 10:12	
Nickel	33	1.0	mg/Kg	1.00	03/06/2003 10:12	
Selenium	ND	2.0	mg/Kg	1.00	03/06/2003 10:12	
Silver	ND	1.0	mg/Kg	1.00	03/06/2003 10:12	
Thallium	ND	1.0	mg/Kg	1.00	03/06/2003 10:12	
Vanadium	26	1.0	mg/Kg	1.00	03/06/2003 10:12	
Zinc	120	1.0	mg/Kg	1.00	03/06/2003 10:12	
Mercury	1.6	0.050	mg/Kg	1.00	03/07/2003 15:26	

SEVERN TRENT STL

Submission #: 2003-03-0047

CAM 17 Metals

Kennedy/Jenks-San Francisco
Attn.: Meredith Durant

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San Francisco, CA 94107-1366
Phone: (415) 243-2534 Fax: (415) 896-0999

Project: 000128.00
Praxair

Received: 03/04/2003 16:07

Site: 901 Embarcadero

Prep(s):	3050B 7471A	Test(s):	6010B 7471A
Sample ID:	``7`` STOCKPILE	Lab ID:	2003-03-0047 - 3
Sampled:	03/04/2003 15:20	Extracted:	3/5/2003 15:20 3/5/2003 12:50
Matrix:	Soil	QC Batch#:	2003/03/05-02.16 2003/03/05-03.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Antimony	ND	2.0	mg/Kg	1.00	03/06/2003 10:16	
Arsenic	3.3	1.0	mg/Kg	1.00	03/06/2003 10:16	
Barium	49	1.0	mg/Kg	1.00	03/06/2003 10:16	
Beryllium	ND	0.50	mg/Kg	1.00	03/06/2003 10:16	
Cadmium	1.9	0.50	mg/Kg	1.00	03/06/2003 10:16	
Chromium	14	1.0	mg/Kg	1.00	03/06/2003 10:16	
Cobalt	5.8	1.0	mg/Kg	1.00	03/06/2003 10:16	
Copper	21	1.0	mg/Kg	1.00	03/06/2003 10:16	
Lead	14	1.0	mg/Kg	1.00	03/06/2003 10:16	
Molybdenum	ND	1.0	mg/Kg	1.00	03/06/2003 10:16	
Nickel	14	1.0	mg/Kg	1.00	03/06/2003 10:16	
Selenium	ND	2.0	mg/Kg	1.00	03/06/2003 10:16	
Silver	ND	1.0	mg/Kg	1.00	03/06/2003 10:16	
Thallium	ND	1.0	mg/Kg	1.00	03/06/2003 10:16	
Vanadium	30	1.0	mg/Kg	1.00	03/06/2003 10:16	
Zinc	44	1.0	mg/Kg	1.00	03/06/2003 10:16	
Mercury	0.55	0.050	mg/Kg	1.00	03/07/2003 15:28	

CAM 17 Metals

Kennedy/Jenks-San Francisco
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Project: 000128.00
Praxair

Received: 03/04/2003 16:07

Site: 901 Embarcadero

Batch QC Report

Prep(s): 7471A
Method Blank
MB: 2003/03/05-01.16-011

Soil

Test(s): 7471A
QC Batch # 2003/03/05-01.16
Date Extracted: 03/05/2003 12:53

Compound	Conc.	RL	Unit	Analyzed	Flag
Mercury	ND	0.050	mg/Kg	03/06/2003 09:36	

CAM 17 Metals

Kennedy/Jenks-San Francisco
Attn.: Meredith Durant

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San Francisco, CA 94107-1366
Phone: (415) 243-2534 Fax: (415) 896-0999

Project: 000128.00
Praxair

Received: 03/04/2003 16:07

Site: 901 Embarcadero

Batch QC Report

Prep(s): 7471A
Method Blank
MB: 2003/03/05-02.16-068

Soil

Test(s): 7471A
QC Batch # 2003/03/05-02.16
Date Extracted: 03/05/2003 15:20

Compound	Conc.	RL	Unit	Analyzed	Flag
Mercury	ND	0.050	mg/Kg	03/07/2003 14:53	

CAM 17 Metals

Kennedy/Jenks-San Francisco
Attn.: Meredith Durant

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San Francisco, CA 94107-1366
Phone: (415) 243-2534 Fax: (415) 896-0999

Project: 000128.00
Praxair

Received: 03/04/2003 16:07

Site: 901 Embarcadero

Batch QC Report

Prep(s): 3050B — Test(s): 6010B

Method Blank — **Soil** — **QC Batch # 2003/03/05-03.15**

MB: 2003/03/05-03.15-012 — Date Extracted: 03/05/2003 12:50

Compound	Conc.	RL	Unit	Analyzed	Flag
Antimony	ND	2.0	mg/Kg	03/06/2003 07:57	
Arsenic	ND	1.0	mg/Kg	03/06/2003 07:57	
Barium	ND	1.0	mg/Kg	03/06/2003 07:57	
Beryllium	ND	0.50	mg/Kg	03/06/2003 07:57	
Cadmium	ND	0.50	mg/Kg	03/06/2003 07:57	
Chromium	ND	1.0	mg/Kg	03/06/2003 07:57	
Cobalt	ND	1.0	mg/Kg	03/06/2003 07:57	
Copper	ND	1.0	mg/Kg	03/06/2003 07:57	
Lead	ND	1.0	mg/Kg	03/06/2003 07:57	
Molybdenum	ND	1.0	mg/Kg	03/06/2003 07:57	
Nickel	ND	1.0	mg/Kg	03/06/2003 07:57	
Selenium	ND	2.0	mg/Kg	03/06/2003 07:57	
Silver	ND	1.0	mg/Kg	03/06/2003 07:57	
Thallium	ND	1.0	mg/Kg	03/06/2003 07:57	
Vanadium	ND	1.0	mg/Kg	03/06/2003 07:57	
Zinc	ND	1.0	mg/Kg	03/06/2003 07:57	

CAM 17 Metals

Kennedy/Jenks-San Francisco
Attn.: Meredith Durant

622 Folsom Street
San Francisco, CA 94107-1366
Phone: (415) 243-2534 Fax: (415) 896-0999

Project: 000128.00
Praxair

Received: 03/04/2003 16:07

Site: 901 Embarcadero

Batch QC Report

Prep(s): 7471A

Test(s): 7471A

Laboratory Control Spike **Soil** **QC Batch # 2003/03/05-01.16**

LCS 2003/03/05-01.16-012 Extracted: 03/05/2003 Analyzed: 03/06/2003 09:37
LCSD 2003/03/05-01.16-013 Extracted: 03/05/2003 Analyzed: 03/06/2003 09:39

Compound	Conc. mg/Kg		Exp.Conc.	Recovery		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Mercury	0.521	0.516	0.500	104.2	103.2	1.0	85-115	20		

CAM 17 Metals

Kennedy/Jenks-San Francisco
Attn.: Meredith Durant

622 Folsom Street
San Francisco, CA 94107-1366
Phone: (415) 243-2534 Fax: (415) 896-0999

Project: 000128.00
Praxair

Received: 03/04/2003 16:07

Site: 901 Embarcadero

Batch QC Report

Prep(s): 7471A

Test(s): 7471A

Laboratory Control Spike | **Soil** | **QC Batch # 2003/03/05-02.16**

LCS 2003/03/05-02.16-069 Extracted: 03/05/2003 Analyzed: 03/07/2003 14:55
LCSD 2003/03/05-02.16-070 Extracted: 03/05/2003 Analyzed: 03/07/2003 14:56

Compound	Conc. mg/Kg		Exp.Conc.	Recovery		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Mercury	0.511	0.512	0.500	102.2	102.4	0.2	85-115	20		

CAM 17 Metals

Kennedy/Jenks-San Francisco
Attn.: Meredith Durant

622 Folsom Street
San Francisco, CA 94107-1366
Phone: (415) 243-2534 Fax: (415) 896-0999

Project: 000128.00
Praxair

Received: 03/04/2003 16:07

Site: 901 Embarcadero

Batch QC Report

Prep(s): 3050B

Test(s): 6010B

Laboratory Control Spike | **Soil** | **QC Batch # 2003/03/05-03.15**

LCS 2003/03/05-03.15-013 Extracted: 03/05/2003 Analyzed: 03/06/2003 08:00

LCSD 2003/03/05-03.15-014 Extracted: 03/05/2003 Analyzed: 03/06/2003 08:04

Compound	Conc. mg/Kg		Exp.Conc.	Recovery		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Antimony	97.3	92.6	100.0	97.3	92.6	4.9	80-120	20		
Arsenic	98.0	93.3	100.0	98.0	93.3	4.9	80-120	20		
Barium	91.0	87.9	100.0	91.0	87.9	3.5	80-120	20		
Beryllium	90.0	86.2	100.0	90.0	86.2	4.3	80-120	20		
Cadmium	90.2	87.0	100.0	90.2	87.0	3.6	80-120	20		
Chromium	88.8	85.8	100.0	88.8	85.8	3.4	80-120	20		
Cobalt	90.8	87.5	100.0	90.8	87.5	3.7	80-120	20		
Copper	93.6	90.5	100.0	93.6	90.5	3.4	80-120	20		
Lead	92.6	87.8	100.0	92.6	87.8	5.3	80-120	20		
Molybdenum	90.1	87.5	100.0	90.1	87.5	2.9	80-120	20		
Nickel	90.5	87.4	100.0	90.5	87.4	3.5	80-120	20		
Selenium	90.1	85.8	100.0	90.1	85.8	4.9	80-120	20		
Silver	90.6	87.6	100.0	90.6	87.6	3.4	80-120	20		
Thallium	90.0	85.6	100.0	90.0	85.6	5.0	80-120	20		
Vanadium	93.3	90.1	100.0	93.3	90.1	3.5	80-120	20		
Zinc	91.6	88.2	100.0	91.6	88.2	3.8	80-120	20		

SEVERN TRENT STL

Submission #: 2003-03-0047

Total Extractable Petroleum Hydrocarbons (TEPH)

Kennedy/Jenks-San Francisco
Attn.: Meredith Durant

622 Folsom Street
San Francisco, CA 94107-1366
Phone: (415) 243-2534 Fax: (415) 896-0999

Project: 000128.00
Praxair

Received: 03/04/2003 16:07

Site: 901 Embarcadero

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
``13`` STOCKPILE	03/04/2003 10:15	Soil	1
``11`` STOCKPILE	03/04/2003 10:00	Soil	2
``7`` STOCKPILE	03/04/2003 15:20	Soil	3

Total Extractable Petroleum Hydrocarbons (TEPH)

Kennedy/Jenks-San Francisco
Attn.: Meredith Durant

622 Folsom Street
San Francisco, CA 94107-1366
Phone: (415) 243-2534 Fax: (415) 896-0999

Project: 000128.00
Praxair

Received: 03/04/2003 16:07

Site: 901 Embarcadero

Prep(s):	3550/8015M	Test(s):	8015M
Sample ID:	"13" STOCKPILE	Lab ID:	2003-03-0047 - 1
Sampled:	03/04/2003 10:15	Extracted:	3/6/2003 09:05
Matrix:	Soil	QC Batch#:	2003/03/05-02.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	260	10	mg/Kg	10.00	03/06/2003 17:24	ndp
Motor Oil	2100	500	mg/Kg	10.00	03/06/2003 17:24	
Surrogates(s)						
o-Terphenyl	NA	60-130	%	10.00	03/06/2003 17:24	sd

Total Extractable Petroleum Hydrocarbons (TEPH)

Kennedy/Jenks-San Francisco
Attn.: Meredith Durant

622 Folsom Street
San Francisco, CA 94107-1366
Phone: (415) 243-2534 Fax: (415) 896-0999

Project: 000128.00
Praxair

Received: 03/04/2003 16:07

Site: 901 Embarcadero

Prep(s):	3550/8015M	Test(s):	8015M
Sample ID:	``11`` STOCKPILE	Lab ID:	2003-03-0047 - 2
Sampled:	03/04/2003 10:00	Extracted:	3/5/2003 09:05
Matrix:	Soil	QC Batch#:	2003/03/05-02.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	33	1.0	mg/Kg	1.00	03/07/2003 14:22	ndp
Motor Oil	240	50	mg/Kg	1.00	03/07/2003 14:22	
Surrogates(s)						
o-Terphenyl	99.6	60-130	%	1.00	03/07/2003 14:22	

Total Extractable Petroleum Hydrocarbons (TEPH)

Kennedy/Jenks-San Francisco
Attn.: Meredith Durant

622 Folsom Street
San Francisco, CA 94107-1366
Phone: (415) 243-2534 Fax: (415) 896-0999

Project: 000128.00
Praxair

Received: 03/04/2003 16:07

Site: 901 Embarcadero

Prep(s):	3550/8015M	Test(s):	8015M
Sample ID:	"7" STOCKPILE	Lab ID:	2003-03-0047 - 3
Sampled:	03/04/2003 15:20	Extracted:	3/5/2003 09:05
Matrix:	Soil	QC Batch#:	2003/03/05-02.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	11	1.0	mg/Kg	1.00	03/06/2003 04:09	ndp
Motor Oil	370	50	mg/Kg	1.00	03/06/2003 04:09	
Surrogates(s)						
o-Terphenyl	107.4	60-130	%	1.00	03/06/2003 04:09	

Total Extractable Petroleum Hydrocarbons (TEPH)

Kennedy/Jenks-San Francisco
Attn.: Meredith Durant

622 Folsom Street
San Francisco, CA 94107-1366
Phone: (415) 243-2534 Fax: (415) 896-0999

Project: 000128.00
Praxair

Received: 03/04/2003 16:07

Site: 901 Embarcadero

Batch QC Report

Prep(s): 3550/8015M
Method Blank
MB: 2003/03/05-02.10-003

Soil

Test(s): 8015M
QC Batch # 2003/03/05-02.10
Date Extracted: 03/05/2003 09:05

Compound	Conc.	RL	Unit	Analyzed	Flag
Diesel	ND	1	mg/Kg	03/05/2003 15:51	
Motor Oil	ND	50	mg/Kg	03/05/2003 15:51	
Surrogates(s)					
o-Terphenyl	90.2	60-130	%	03/05/2003 15:51	

Total Extractable Petroleum Hydrocarbons (TEPH)

Kennedy/Jenks-San Francisco

Attn.: Meredith Durant

622 Folsom Street
San Francisco, CA 94107-1366
Phone: (415) 243-2534 Fax: (415) 896-0999

Project: 000128.00
Praxair

Received: 03/04/2003 16:07

Site: 901 Embarcadero

Batch QC Report

Prep(s): 3550/8015M

Test(s): 8015M

Laboratory Control Spike | **Soil** | **QC Batch # 2003/03/05-02.10**

LCS 2003/03/05-02.10-001 Extracted: 03/05/2003 Analyzed: 03/05/2003 13:59

LCSD 2003/03/05-02.10-002 Extracted: 03/05/2003 Analyzed: 03/05/2003 15:51

Compound	Conc. mg/Kg		Exp.Conc.	Recovery		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Diesel	43.1	41.8	41.4	104.1	101.0	3.0	60-130	25		
Surrogates(s)										
o-Terphenyl	20.5	19.8	20.0	102.3	98.9		60-130	0		

Total Extractable Petroleum Hydrocarbons (TEPH)

Kennedy/Jenks-San Francisco
Attn.: Meredith Durant

622 Folsom Street
San Francisco, CA 94107-1366
Phone: (415) 243-2534 Fax: (415) 896-0999

Project: 000128.00
Praxair

Received: 03/04/2003 16:07

Site: 901 Embarcadero

Legend and Notes

Result Flag

ndp

Hydrocarbon reported does not match the pattern of our Diesel standard

sd

Surrogate recovery not reportable due to required dilution.

Sample Chain-of-Custody/Analysis Request 2003-03-0047 Kennedy/Jenks Consultants

Possible Hazards: Analytes

Client: Proxam | Report to: M. Durant

Site: 901 Embarcadero | Company: K/J

Project No.: 000128.00 | Address: 622 Folsom SF

Sampler Name: M. McLeod | Telephone: 415-243-2508

Telephone: 415-243-2508 | Fax: 415-243-2508

Lab Destination: STL

Address: 1220 Quarry Pleasanton

Telephone: 925-484-1919

Carrier/Way Bill No.: n/a

Sample Number (1)	Collection Date	Time	Sample Type (2)	Depth	Comp. (3)	Preserv. (4)	Turn-around	TPH-d, mo (EPA 8015)	CAM 17 metals	Comment/Conditions (container type, container number, etc.)
"13" STOCKPILE	3/3	1015	S	n/a	Y/N	4°C	72HR	X	X	2-liners.
"11" STOCKPILE	3/3	1000 #50	"	"	Y/N	"	"	X	X	2-liners
"7" STOCKPILE	3/3	1520	"		Y/N	"	"	X	X	2-liners

RUSH

(1) Write only one sample number in each space.
(2) Specify type of sample(s): Water (W), Solid (S), or Indicate type.
(3) Mark each sample which should be composited in Laboratory as follows: Place an "A" in box for each sample that should be composited into one sample; use sequential letter for additional groups.
(4) Preservation of sample.
(5) Write each analysis requested across top. Place an "X" in appropriate column to indicate type of analysis needed for each sample.

Sample Relinquished By: Print Name	Signature	Company	Date	Time	Sample Received By: Print Name	Signature	Company	Date	Time
Mike McLeod		K/J	3/4/03	1140	Vincent Vann!		STL	3403	1140
Vincent Vann		STL	3403	1640					
					Nounak.		STL-SF	3/4/03	1607

SEVERN TRENT STL

STL San Francisco

Sample Receipt Checklist

Submission #:2003- 03 - 0047

Checklist completed by: (initials) NK Date: 03 /04 /03

Courier name: ☑ STL San Francisco ☐ Client _____

Custody seals intact on shipping container/samples	Yes____ No____	Not Present ✓
Chain of custody present?	Yes ✓ No____	
Chain of custody signed when relinquished and received?	Yes ✓ No____	
Chain of custody agrees with sample labels?	Yes ✓ No____	
Samples in proper container/bottle?	Yes ✓ No____	
Sample containers intact?	Yes ✓ No____	
Sufficient sample volume for indicated test?	Yes ✓ No____	
All samples received within holding time?	Yes ✓ No____	
Container/Temp Blank temperature in compliance (4^{o} C ± 2)?	Temp: 4.3 °C Yes ✓ No____	
Water - VOA vials have zero headspace?	No VOA vials submitted ✓ Yes____ No____	

(if bubble is present, refer to approximate bubble size and itemize in comments as **S** (small ~O), **M** (medium ~ O) or L (large ~ O)

Water - **pH acceptable upon receipt?** ☐ Yes ☐ No

☐ **pH adjusted**– Preservative used: ☐ HNO_3 ☐ HCl ☐ H_2SO_4 ☐ NaOH ☐ ZnOAc

For any item check-listed "No", provided detail of discrepancy in comment section below:

Comments:

Project Management [Routing for instruction of indicated discrepancy(ies)]

Project Manager: (initials) _____ Date: _____/_____/03

Client contacted: ☐ Yes ☐ No

Summary of discussion:

Corrective Action (per PM/Client):

SEVERN TRENT STL

Submission#: 2003-03-0322

Kennedy/Jenks-San Francisco

March 20, 2003

622 Folsom Street
San Francisco, CA 94107-1366

Attn.: Meredith Durant

Project#: 000128.00
Project: Praxair
Site: 901 Embercadero

Dear Meredith,

Attached is our report for your samples received on 03/04/2003 00:00
This report has been reviewed and approved for release. Reproduction of this report is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after 04/18/2003 unless you have requested otherwise.
We appreciate the opportunity to be of service to you. If you have any questions, please call me at (925) 484-1919.
You can also contact me via email. My email address is: vvancil@stl-inc.com

Sincerely,

Vincent Vancil
Project Manager

SEVERN TRENT STL

Submission #: 2003-03-0322

CAM W.E.T. (STLC) Lead

Kennedy/Jenks-San Francisco
Attn.: Meredith Durant

622 Folsom Street
San Francisco, CA 94107-1366
Phone: (415) 243-2534 Fax: (415) 896-0999

Project: 000128.00
Praxair

Received: 03/04/2003

Site: 901 Embercadero

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
``13`` STOCKPILE	03/04/2003 10:15	Soil	1
``11`` STOCKPILE	03/04/2003 10:00	Soil	2

CAM W.E.T. (STLC) Lead

Kennedy/Jenks-San Francisco
Attn.: Meredith Durant

622 Folsom Street
San Francisco, CA 94107-1366
Phone: (415) 243-2534 Fax: (415) 896-0999

Project: 000128.00
Praxair

Received: 03/04/2003

Site: 901 Embercadero

Prep(s):	3005A	Test(s):	6010B
Sample ID:	"13" STOCKPILE	Lab ID:	2003-03-0322 - 1
Sampled:	03/04/2003 10:15	Extracted:	3/20/2003 05:51
Matrix:	Soil	QC Batch#:	2003/03/20-02.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	8.7	0.50	mg/L	1.00	03/20/2003 09:03	

CAM W.E.T. (STLC) Lead

Kennedy/Jenks-San Francisco
Attn.: Meredith Durant

622 Folsom Street
San Francisco, CA 94107-1366
Phone: (415) 243-2534 Fax: (415) 896-0999

Project: 000128.00
Praxair

Received: 03/04/2003

Site: 901 Embercadero

Prep(s):	3005A	Test(s):	6010B
Sample ID:	``11`` STOCKPILE	Lab ID:	2003-03-0322 - 2
Sampled:	03/04/2003 10:00	Extracted:	3/20/2003 05:51
Matrix:	Soil	QC Batch#:	2003/03/20-02.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	5.2	0.50	mg/L	1.00	03/20/2003 09:07	

CAM W.E.T. (STLC) Lead

Kennedy/Jenks-San Francisco
Attn.: Meredith Durant

622 Folsom Street
San Francisco, CA 94107-1366
Phone: (415) 243-2534 Fax: (415) 896-0999

Project: 000128.00
Praxair

Received: 03/04/2003

Site: 901 Embercadero

Batch QC Report

Prep(s): 3005A
Method Blank
MB: 2003/03/20-02.15-037

Soil

Test(s): 6010B
QC Batch # 2003/03/20-02.15
Date Extracted: 03/20/2003 05:51

Compound	Conc.	RL	Unit	Analyzed	Flag
Lead	ND	0.50	mg/L	03/20/2003 08:50	

SEVERN TRENT STL

Submission #: 2003-03-0322

CAM W.E.T. (STLC) Lead

Kennedy/Jenks-San Francisco
Attn.: Meredith Durant

622 Folsom Street
San Francisco, CA 94107-1366
Phone: (415) 243-2534 Fax: (415) 896-0999

Project: 000128.00
Praxair

Received: 03/04/2003

Site: 901 Embercadero

Batch QC Report

Prep(s): 3005A

Test(s): 6010B

Laboratory Control Spike **Soil** **QC Batch # 2003/03/20-02.15**

LCS 2003/03/20-02.15-038 Extracted: 03/20/2003 Analyzed: 03/20/2003 08:54
LCSD 2003/03/20-02.15-039 Extracted: 03/20/2003 Analyzed: 03/20/2003 08:59

Compound	Conc. mg/L		Exp.Conc.	Recovery		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Lead	4.97	4.95	5.00	99.4	99.0	0.4	80-120	20		

2003-03-0322

SEVERN TRENT SERVICES **STL San Francisco**

ADD ON/CHANGE ORDER

New Submission No.: _____

Reference No.: 72663

ORIGINAL SUBMISSION INFORMATION

Name of Caller: Meredith Durant

Bill To: _____

Client Name: KJ

Call Date: 3-17-03

Attn.: _____

Project Mgr.: Meredith Durant

Add on Due Date: 3-2003

Comments: _____

Project Name: Praxair

Project No.: 000128.00

PO#: 901 Embarcadero

Date Received: 3-4-03

Submission No.: 2003-03-0047

Sample ID	Date	Time	Matrix	Prev. Spl. #	TPH (EPA 8015, 8020/8021) ☐ Gas w/ ☐ BTEX ☐ MTBE	Purgeable Aromatics BTEX (EPA 8020/8021)	TEPH (EPA 8015M) ☐ Silica Gel ☐ Diesel ☐ Motor Oil ☐ Other ___	Fuel Oxygenates (8260B): ☐ DCA, EDB ☐ Full Oxygenate List ☐ MTBE ☐ BTEX	Purgeable Halocarbons (HVOCs) (EPA 8010/8021)	Volatile Organics GC/MS (VOCs) (EPA 8260A/8260B)	Semivolatiles GC/MS (EPA 8270)	Oil & Grease ☐ Petrol (EPA 1664) ☐ Total	☐ Pesticides (EPA 8081) ☐ PCBs (EPA 8082)	PNAs by ☐ 8270 ☐ 8310	CAM 17 Metals (EPA 6010/7470/7471)	Metals: ☐ Lead ☐ LUFT ☐ RCRA ☐ Other ___	W.E.T. (STLC) ☐ TCLP Pb	☐ Hexavalent Chromium ☐ pH (24 hr. hold time for H_2O)	☐ Spec. Cond. ☐ Alkalinity ☐ TSS ☐ TDS	Anions: ☐ Br ☐ NO_2 ☐ PO_4 ☐ F ☐ Cl ☐ SO_4 ☐ NO_3					NUMBER OF CONTAINERS
"13" Stockpile	3-4-03	10:15	S	001													X								
"11" Stockpile	"	10:20	"	002													X								

RUSH

SEVERN TRENT STL

Submission#: 2003-03-0484

Kennedy/Jenks-San Francisco

March 28, 2003

622 Folsom Street
San Francisco, CA 94107-1366
Attn.: Meredith Durant
Project#: 000128.00
Project: Praxair

Dear Meredith,

Attached is our report for your samples received on 03/04/2003 00:00
This report has been reviewed and approved for release. Reproduction of this report is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after 04/18/2003 unless you have requested otherwise.
We appreciate the opportunity to be of service to you. If you have any questions, please call me at (925) 484-1919.
You can also contact me via email. My email address is: vvancil@stl-inc.com

Sincerely,

Vincent Vancil
Project Manager

SEVERN TRENT STL

Submission #: 2003-03-0484

TCLP Lead

Kennedy/Jenks-San Francisco
Attn.: Meredith Durant

622 Folsom Street
San Francisco, CA 94107-1366
Phone: (415) 243-2534 Fax: (415) 896-0999

Project: 000128.00
Praxair

Received: 03/04/2003

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
``13`` STOCKPILE	03/04/2003 10:15	Soil	1

TCLP Lead

Kennedy/Jenks-San Francisco
Attn.: Meredith Durant

622 Folsom Street
San Francisco, CA 94107-1366
Phone: (415) 243-2534 Fax: (415) 896-0999

Project: 000128.00
Praxair

Received: 03/04/2003

Prep(s):	3010A	Test(s):	6010B
Sample ID:	**"13" STOCKPILE**	Lab ID:	2003-03-0484 - 1
Sampled:	03/04/2003 10:15	Extracted:	3/28/2003 05:23
Matrix:	Soil	QC Batch#:	2003/03/28-02.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	ND	0.50	mg/L	1.00	03/28/2003 07:04	

TCLP Lead

Kennedy/Jenks-San Francisco
Attn.: Meredith Durant

622 Folsom Street
San Francisco, CA 94107-1366
Phone: (415) 243-2534 Fax: (415) 896-0999

Project: 000128.00
Praxair

Received: 03/04/2003

Batch QC Report

Prep(s): 1311/3010A
Method Blank
MB: 2003/03/28-02.15-017

Soil

Test(s): 6010B
QC Batch # 2003/03/28-02.15
Date Extracted: 03/28/2003 05:23

Compound	Conc.	RL	Unit	Analyzed	Flag
Lead	ND	0.50	mg/L	03/28/2003 06:48	

TCLP Lead

Kennedy/Jenks-San Francisco
Attn.: Meredith Durant

622 Folsom Street
San Francisco, CA 94107-1366
Phone: (415) 243-2534 Fax: (415) 896-0999

Project: 000128.00
Praxair

Received: 03/04/2003

Batch QC Report

Prep(s): 1311/3010A

Test(s): 6010B

Laboratory Control Spike **Soil** **QC Batch # 2003/03/28-02.15**

LCS 2003/03/28-02.15-018 Extracted: 03/28/2003 Analyzed: 03/28/2003 06:56

LCSD 2003/03/28-02.15-019 Extracted: 03/28/2003 Analyzed: 03/28/2003 07:00

Compound	Conc. mg/L		Exp.Conc.	Recovery		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Lead	5.06	5.11	5.00	101.2	102.2	1.0	80-120	20		

TCLP Lead

Kennedy/Jenks-San Francisco
Attn.: Meredith Durant

622 Folsom Street
San Francisco, CA 94107-1366
Phone: (415) 243-2534 Fax: (415) 896-0999

Project: 000128.00
Praxair

Received: 03/04/2003

Batch QC Report

Prep(s): 1311/3010A

Test(s): 6010B

Matrix Spike (MS / MSD)

Soil

QC Batch # 2003/03/28-02.15

``13`` STOCKPILE >> MS

Lab ID: 2003-03-0484 - 001

MS: 2003/03/28-02.15-023

Extracted: 03/28/2003

Analyzed: 03/28/2003 07:25

Dilution: 1.00

MSD: 2003/03/28-02.15-024

Extracted: 03/28/2003

Analyzed: 03/28/2003 07:28

Dilution: 1.00

Compound	Conc. mg/L			Spk.Level	Recovery			Limits %		Flags	
	MS	MSD	Sample	mg/L	MS	MSD	RPD	Rec.	RPD	MS	MSD
Lead	5.32	5.40	ND	5.00	106.4	108.0	1.5	75-125	20		

2003-03-0484

SEVERN TRENT SERVICES **STL San Francisco**

ADD ON/CHANGE ORDER

New Submission No.: _____

Reference No.: 72826

ORIGINAL SUBMISSION INFORMATION

Name of Caller: Meredith Durant

Bill To: _____

Client Name: K-J

Call Date: 3-21-03

Attn.: _____

Project Mgr.: Meredith Durant

Add on Due Date: 3-28-03

Comments: _____

Project Name: Praxair

Project No.: 000128.00

PO#: 901 Embarcadero

Date Received: 3-4-03

Submission No.: 2003-03-0322

Sample ID	Date	Time	Matrix	Prev. Spl. #	TPH (EPA 8015, 8020/8021) ☐ Gas w/ ☐ BTEX ☐ MTBE	Purgeable Aromatics BTEX (EPA 8020/8021)	TEPH (EPA 8015M) ☐ Silica Gel ☐ Diesel ☐ Motor Oil ☐ Other ___	Fuel Oxygenates (8260B): ☐ DCA, EDB ☐ Full Oxygenate List ☐ MTBE ☐ BTEX	Purgeable Halocarbons (HVOCs) (EPA 8010/8021)	Volatile Organics GC/MS (VOCs) (EPA 8260A/8260B)	Semivolatiles GC/MS (EPA 8270)	Oil & Grease ☐ Petrol ☐ Total (EPA 1664)	☐ Pesticides (EPA 8081) ☐ PCBs (EPA 8082)	PNAs by ☐ 8270 ☐ 8310	CAM 17 Metals (EPA 6010/7470/7471)	Metals: ☐ Lead ☐ LUFT ☐ RCRA ☐ Other ___	☐ W.E.T. (STLC) ☐ TCLP Pb	☐ Hexavalent Chromium ☐ pH (24 hr. hold time for H_2O)	☐ Spec. Cond. ☐ Alkalinity ☐ TSS ☐ TDS	Anions: ☐ Br ☐ NO_2 ☐ PO_4 ☐ F ☐ Cl ☐ SO_4 ☐ NO_3					NUMBER OF CONTAINERS
"13" Stockpile	3403	10:15	S	001													X								

SEVERN TRENT STL

Submission#: 2003-04-0407

Kennedy/Jenks-San Francisco

April 23, 2003

622 Folsom Street
San Francisco, CA 94107-1366
Attn.: Meredith Durant
Project#: 000128.00
Site: 901 Embarcadero

RECEIVED
APR 29 2003
KENNEDY/JENKS CONSULTANTS

Dear Meredith,

Attached is our report for your samples received on 04/16/2003 17:37
This report has been reviewed and approved for release. Reproduction of this report is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after 05/31/2003 unless you have requested otherwise.
We appreciate the opportunity to be of service to you. If you have any questions, please call me at (925) 484-1919.
You can also contact me via email. My email address is: vvancil@stl-inc.com

Sincerely,

Vincent Vancil
Project Manager

SEVERN TRENT STL

Submission #: 2003-04-0407

CAM 17 Metals

Kennedy/Jenks-San Francisco
Attn.: Meredith Durant

622 Folsom Street
San Francisco, CA 94107-1366
Phone: (415) 243-2534 Fax: (415) 896-0999

Project: 000128.00

Received: 04/16/2003 17:37

Site: 901 Embarcadero

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
``13``CONF-4-A	04/15/2003 10:50	Soil	3

SEVERN TRENT STL

Submission #: 2003-04-0407

CAM 17 Metals

Kennedy/Jenks-San Francisco
Attn.: Meredith Durant

622 Folsom Street
San Francisco, CA 94107-1366
Phone: (415) 243-2534 Fax: (415) 896-0999

Project: 000128.00

Received: 04/16/2003 17:37

Site: 901 Embarcadero

Prep(s):	3050B 7471A	Test(s):	6010B 7471A
Sample ID:	"13" CONF-4-A	Lab ID:	2003-04-0407 - 3
Sampled:	04/15/2003 10:50	Extracted:	4/17/2003 05:25 4/17/2003 06:08
Matrix:	Soil	QC Batch#:	2003/04/17-02.15 2003/04/17-02.16

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Antimony	ND	2.0	mg/Kg	1.00	04/17/2003 10:15	
Arsenic	1.3	1.0	mg/Kg	1.00	04/17/2003 10:15	
Barium	28	1.0	mg/Kg	1.00	04/17/2003 10:15	
Beryllium	ND	0.50	mg/Kg	1.00	04/17/2003 10:15	
Cadmium	0.65	0.50	mg/Kg	1.00	04/17/2003 10:15	
Chromium	22	1.0	mg/Kg	1.00	04/17/2003 10:15	
Cobalt	3.7	1.0	mg/Kg	1.00	04/17/2003 10:15	
Copper	7.2	1.0	mg/Kg	1.00	04/17/2003 10:15	
Lead	4.8	1.0	mg/Kg	1.00	04/17/2003 10:15	
Molybdenum	ND	1.0	mg/Kg	1.00	04/17/2003 10:15	
Nickel	27	1.0	mg/Kg	1.00	04/17/2003 10:15	
Selenium	ND	2.0	mg/Kg	1.00	04/17/2003 10:15	
Silver	ND	1.0	mg/Kg	1.00	04/17/2003 10:15	
Thallium	ND	1.0	mg/Kg	1.00	04/17/2003 10:15	
Vanadium	14	1.0	mg/Kg	1.00	04/17/2003 10:15	
Zinc	17	1.0	mg/Kg	1.00	04/17/2003 10:15	
Mercury	0.081	0.050	mg/Kg	1.00	04/17/2003 14:41	

CAM 17 Metals

Kennedy/Jenks-San Francisco
Attn.: Meredith Durant

622 Folsom Street
San Francisco, CA 94107-1366
Phone: (415) 243-2534 Fax: (415) 896-0999

Project: 000128.00

Received: 04/16/2003 17:37

Site: 901 Embarcadero

Batch QC Report

Prep(s): 3050B
Method Blank
MB: 2003/04/17-02.15-020

Soil

Test(s): 6010B
QC Batch # 2003/04/17-02.15
Date Extracted: 04/17/2003 05:25

Compound	Conc.	RL	Unit	Analyzed	Flag
Antimony	ND	2.0	mg/Kg	04/17/2003 08:48	
Arsenic	ND	1.0	mg/Kg	04/17/2003 08:48	
Barium	ND	1.0	mg/Kg	04/17/2003 08:48	
Beryllium	ND	0.50	mg/Kg	04/17/2003 08:48	
Cadmium	ND	0.50	mg/Kg	04/17/2003 08:48	
Chromium	ND	1.0	mg/Kg	04/17/2003 08:48	
Cobalt	ND	1.0	mg/Kg	04/17/2003 08:48	
Copper	ND	1.0	mg/Kg	04/17/2003 08:48	
Lead	ND	1.0	mg/Kg	04/17/2003 08:48	
Molybdenum	ND	1.0	mg/Kg	04/17/2003 08:48	
Nickel	ND	1.0	mg/Kg	04/17/2003 08:48	
Selenium	ND	2.0	mg/Kg	04/17/2003 08:48	
Silver	ND	1.0	mg/Kg	04/17/2003 08:48	
Thallium	ND	1.0	mg/Kg	04/17/2003 08:48	
Vanadium	ND	1.0	mg/Kg	04/17/2003 08:48	
Zinc	ND	1.0	mg/Kg	04/17/2003 08:48	

CAM 17 Metals

Kennedy/Jenks-San Francisco
Attn.: Meredith Durant

622 Folsom Street
San Francisco, CA 94107-1366
Phone: (415) 243-2534 Fax: (415) 896-0999

Project: 000128.00

Received: 04/16/2003 17:37

Site: 901 Embarcadero

Batch QC Report

Prep(s): 7471A
Method Blank
MB: 2003/04/17-02.16-067

Soil

Test(s): 7471A
QC Batch # 2003/04/17-02.16
Date Extracted: 04/17/2003 06:08

Compound	Conc.	RL	Unit	Analyzed	Flag
Mercury	ND	0.050	mg/Kg	04/17/2003 13:36	

SEVERN TRENT STL

Submission #: 2003-04-0407

CAM 17 Metals

Kennedy/Jenks-San Francisco
Attn.: Meredith Durant

622 Folsom Street
San Francisco, CA 94107-1366
Phone: (415) 243-2534 Fax: (415) 896-0999

Project: 000128.00

Received: 04/16/2003 17:37

Site: 901 Embarcadero

Batch QC Report

Prep(s): 3050B

Test(s): 6010B

Laboratory Control Spike | **Soil** | **QC Batch # 2003/04/17-02.15**

LCS 2003/04/17-02.15-023 Extracted: 04/17/2003 Analyzed: 04/17/2003 09:01

LCSD 2003/04/17-02.15-024 Extracted: 04/17/2003 Analyzed: 04/17/2003 09:04

Compound	Conc. mg/Kg		Exp.Conc.	Recovery		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Antimony	99.0	99.3	100.0	99.0	99.3	0.3	80-120	20		
Arsenic	98.8	98.9	100.0	98.8	98.9	0.1	80-120	20		
Barium	100	101	100.0	100.0	101.0	1.0	80-120	20		
Beryllium	101	102	100.0	101.0	102.0	1.0	80-120	20		
Cadmium	99.1	99.4	100.0	99.1	99.4	0.3	80-120	20		
Chromium	99.7	100.0	100.0	99.7	100.0	0.3	80-120	20		
Cobalt	101	101	100.0	101.0	101.0	0.0	80-120	20		
Copper	103	103	100.0	103.0	103.0	0.0	80-120	20		
Lead	98.1	98.3	100.0	98.1	98.3	0.2	80-120	20		
Molybdenum	100	100	100.0	100.0	100.0	0.0	80-120	20		
Nickel	99.7	100	100.0	99.7	100.0	0.3	80-120	20		
Selenium	97.3	97.4	100.0	97.3	97.4	0.1	80-120	20		
Silver	101	101	100.0	101.0	101.0	0.0	80-120	20		
Thallium	95.8	96.2	100.0	95.8	96.2	0.4	80-120	20		
Vanadium	103	103	100.0	103.0	103.0	0.0	80-120	20		
Zinc	99.0	99.4	100.0	99.0	99.4	0.4	80-120	20		

CAM 17 Metals

Kennedy/Jenks-San Francisco
Attn.: Meredith Durant

622 Folsom Street
San Francisco, CA 94107-1366
Phone: (415) 243-2534 Fax: (415) 896-0999

Project: 000128.00

Received: 04/16/2003 17:37

Site: 901 Embarcadero

Batch QC Report

Prep(s): 7471A

Test(s): 7471A

Laboratory Control Spike | **Soil** | **QC Batch # 2003/04/17-02.16**

LCS 2003/04/17-02.16-068 Extracted: 04/17/2003 Analyzed: 04/17/2003 13:37

LCSD 2003/04/17-02.16-069 Extracted: 04/17/2003 Analyzed: 04/17/2003 13:39

Compound	Conc. mg/Kg		Exp.Conc.	Recovery		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Mercury	0.534	0.538	0.500	106.8	107.6	0.7	85-115	20		

SEVERN TRENT STL

Submission #: 2003-04-0407

Mercury (Hg)

Kennedy/Jenks-San Francisco
Attn.: Meredith Durant

622 Folsom Street
San Francisco, CA 94107-1366
Phone: (415) 243-2534 Fax: (415) 896-0999

Project: 000128.00

Received: 04/16/2003 17:37

Site: 901 Embarcadero

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
``11``CONF-2-A	04/15/2003 11:10	Soil	1
``11``CONF-5-A	04/15/2003 11:55	Soil	2

Mercury (Hg)

Kennedy/Jenks-San Francisco
Attn.: Meredith Durant

622 Folsom Street
San Francisco, CA 94107-1366
Phone: (415) 243-2534 Fax: (415) 896-0999

Project: 000128.00

Received: 04/16/2003 17:37

Site: 901 Embarcadero

Prep(s):	7471A	Test(s):	7471A
Sample ID:	**``11``CONF-2-A**	Lab ID:	2003-04-0407 - 1
Sampled:	04/15/2003 11:10	Extracted:	4/17/2003 11:44
Matrix:	Soil	QC Batch#:	2003/04/17-05.16

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Mercury	2.5	0.50	mg/Kg	10.00	04/18/2003 15:21	

Mercury (Hg)

Kennedy/Jenks-San Francisco
Attn.: Meredith Durant

622 Folsom Street
San Francisco, CA 94107-1366
Phone: (415) 243-2534 Fax: (415) 896-0999

Project: 000128.00

Received: 04/16/2003 17:37

Site: 901 Embarcadero

Prep(s):	7471A	Test(s):	7471A
Sample ID:	``11``CONF-5-A	Lab ID:	2003-04-0407 - 2
Sampled:	04/15/2003 11:55	Extracted:	4/17/2003 11:44
Matrix:	Soil	QC Batch#:	2003/04/17-05.16

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Mercury	0.092	0.050	mg/Kg	1.00	04/18/2003 14:17	

Mercury (Hg)

Kennedy/Jenks-San Francisco
Attn.: Meredith Durant

622 Folsom Street
San Francisco, CA 94107-1366
Phone: (415) 243-2534 Fax: (415) 896-0999

Project: 000128.00

Received: 04/16/2003 17:37

Site: 901 Embarcadero

Batch QC Report

Prep(s): 7471A
Method Blank
MB: 2003/04/17-05.16-056

Soil

Test(s): 7471A
QC Batch # 2003/04/17-05.16
Date Extracted: 04/17/2003 11:44

Compound	Conc.	RL	Unit	Analyzed	Flag
Mercury	ND	0.050	mg/Kg	04/18/2003 13:42	

Mercury (Hg)

Kennedy/Jenks-San Francisco
Attn.: Meredith Durant

622 Folsom Street
San Francisco, CA 94107-1366
Phone: (415) 243-2534 Fax: (415) 896-0999

Project: 000128.00

Received: 04/16/2003 17:37

Site: 901 Embarcadero

Batch QC Report

Prep(s): 7471A

Test(s): 7471A

Laboratory Control Spike **Soil** **QC Batch # 2003/04/17-05.16**

LCS 2003/04/17-05.16-057 Extracted: 04/17/2003 Analyzed: 04/18/2003 13:44

LCSD 2003/04/17-05.16-060 Extracted: 04/17/2003 Analyzed: 04/18/2003 13:47

Compound	Conc. mg/Kg		Exp.Conc.	Recovery		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Mercury	0.522	0.503	0.500	104.4	100.6	3.7	85-115	20		

SEVERN TRENT STL

Submission #: 2003-04-0407

pH

Kennedy/Jenks-San Francisco
Attn.: Meredith Durant

622 Folsom Street
San Francisco, CA 94107-1366
Phone: (415) 243-2534 Fax: (415) 896-0999

Project: 000128.00

Received: 04/16/2003 17:37

Site: 901 Embarcadero

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
``11``CONF-2-A	04/15/2003 11:10	Soil	1
``11``CONF-5-A	04/15/2003 11:55	Soil	2

pH

Kennedy/Jenks-San Francisco
Attn.: Meredith Durant

622 Folsom Street
San Francisco, CA 94107-1366
Phone: (415) 243-2534 Fax: (415) 896-0999

Project: 000128.00

Received: 04/16/2003 17:37

Site: 901 Embarcadero

Prep(s):	9045C	Test(s):	9045C
Sample ID:	``11`` CONF-2-A	Lab ID:	2003-04-0407 - 1
Sampled:	04/15/2003 11:10	Extracted:	4/22/2003 06:47
Matrix:	Soil	QC Batch#:	2003/04/22-01.22

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
pH	9.3	0.1	SU	1.00	04/22/2003 06:47	

pH

Kennedy/Jenks-San Francisco
Attn.: Meredith Durant

622 Folsom Street
San Francisco, CA 94107-1366
Phone: (415) 243-2534 Fax: (415) 896-0999

Project: 000128.00

Received: 04/16/2003 17:37

Site: 901 Embarcadero

Prep(s):	9045C	Test(s):	9045C
Sample ID:	**`11` CONF-5-A**	Lab ID:	2003-04-0407 - 2
Sampled:	04/15/2003 11:55	Extracted:	4/22/2003 06:47
Matrix:	Soil	QC Batch#:	2003/04/22-01.22

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
pH	8.3	0.1	SU	1.00	04/22/2003 06:47	

pH

Kennedy/Jenks-San Francisco
Attn.: Meredith Durant

622 Folsom Street
San Francisco, CA 94107-1366
Phone: (415) 243-2534 Fax: (415) 896-0999

Project: 000128.00

Received: 04/16/2003 17:37

Site: 901 Embarcadero

Batch QC Report

Prep(s): 9045C
Method Blank
MB: 2003/04/22-01.22-001

Soil

Test(s): 9045C
QC Batch # 2003/04/22-01.22
Date Extracted: 04/22/2003

Compound	Conc.	RL	Unit	Analyzed	Flag
pH	7.04	0.1	SU	04/22/2003	

SEVERN TRENT STL

Submission #: 2003-04-0407

Total Extractable Petroleum Hydrocarbons (TEPH)

Kennedy/Jenks-San Francisco
Attn.: Meredith Durant

622 Folsom Street
San Francisco, CA 94107-1366
Phone: (415) 243-2534 Fax: (415) 896-0999

Project: 000128.00

Received: 04/16/2003 17:37

Site: 901 Embarcadero

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
``13``CONF-4-A	04/15/2003 10:50	Soil	3

Total Extractable Petroleum Hydrocarbons (TEPH)

Kennedy/Jenks-San Francisco
Attn.: Meredith Durant

622 Folsom Street
San Francisco, CA 94107-1366
Phone: (415) 243-2534 Fax: (415) 896-0999

Project: 000128.00

Received: 04/16/2003 17:37

Site: 901 Embarcadero

Prep(s):	3550/8015M	Test(s):	8015M
Sample ID:	**``13`` CONF-4-A**	Lab ID:	2003-04-0407 - 3
Sampled:	04/15/2003 10:50	Extracted:	4/17/2003 16:03
Matrix:	Soil	QC Batch#:	2003/04/17-03.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	1200	50	mg/Kg	50.00	04/23/2003 10:29	ndp
Motor Oil	8400	2500	mg/Kg	50.00	04/23/2003 10:29	
Surrogates(s)						
o-Terphenyl	NA	60-130	%	50.00	04/23/2003 10:29	sd

Total Extractable Petroleum Hydrocarbons (TEPH)

Kennedy/Jenks-San Francisco
Attn.: Meredith Durant

622 Folsom Street
San Francisco, CA 94107-1366
Phone: (415) 243-2534 Fax: (415) 896-0999

Project: 000128.00

Received: 04/16/2003 17:37

Site: 901 Embarcadero

Batch QC Report

Prep(s): 3550/8015M
Method Blank
MB: 2003/04/17-03.10-003

Soil

Test(s): 8015M
QC Batch # 2003/04/17-03.10
Date Extracted: 04/17/2003 16:03

Compound	Conc.	RL	Unit	Analyzed	Flag
Diesel	ND	1	mg/Kg	04/18/2003 23:41	
Motor Oil	ND	50	mg/Kg	04/18/2003 23:41	
Surrogates(s)					
o-Terphenyl	92.7	60-130	%	04/18/2003 23:41	

Total Extractable Petroleum Hydrocarbons (TEPH)

Kennedy/Jenks-San Francisco
Attn.: Meredith Durant

622 Folsom Street
San Francisco, CA 94107-1366
Phone: (415) 243-2534 Fax: (415) 896-0999

Project: 000128.00

Received: 04/16/2003 17:37

Site: 901 Embarcadero

Batch QC Report

Prep(s): 3550/8015M

Test(s): 8015M

Laboratory Control Spike | **Soil** | **QC Batch # 2003/04/17-03.10**

LCS 2003/04/17-03.10-001 Extracted: 04/17/2003 Analyzed: 04/18/2003 22:27

LCSD 2003/04/17-03.10-002 Extracted: 04/17/2003 Analyzed: 04/18/2003 23:04

Compound	Conc. mg/Kg		Exp.Conc.	Recovery		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Diesel	40.1	38.9	41.6	96.4	93.5	3.1	60-130	25		
Surrogates(s)										
o-Terphenyl	19.7	19.7	20.0	98.4	98.4		60-130	0		

Total Extractable Petroleum Hydrocarbons (TEPH)

Kennedy/Jenks-San Francisco
Attn.: Meredith Durant

622 Folsom Street
San Francisco, CA 94107-1366
Phone: (415) 243-2534 Fax: (415) 896-0999

Project: 000128.00

Received: 04/16/2003 17:37

Site: 901 Embarcadero

Legend and Notes

Result Flag

ndp

Hydrocarbon reported does not match the pattern of our Diesel standard

sd

Surrogate recovery not reportable due to required dilution.

SEVERN TRENT STL

STL San Francisco

Sample Receipt Checklist

Submission #:2003- 04 - 2407

Checklist completed by: (initials) MN Date: 04/16/03

Courier name: ☒ STL San Francisco ☐ Client _____

Custody seals intact on shipping container/samples	Yes____ No____	Not Present ✓
Chain of custody present?	Yes ✓	No____
Chain of custody signed when relinquished and received?	Yes ✓	No____
Chain of custody agrees with sample labels?	Yes ✓	No____
Samples in proper container/bottle?	Yes ✓	No____
Sample containers intact?	Yes ✓	No____
Sufficient sample volume for indicated test?	Yes ✓	No____
All samples received within holding time?	Yes ✓	No____
Container/Temp Blank temperature in compliance (4^0 C ± 2)?	Temp: 2.0°C Yes ✓	No____
Water - VOA vials have zero headspace?	No VOA vials submitted ✓	Yes____ No____

(if bubble is present, refer to approximate bubble size and itemize in comments as S (small ~O), M (medium ~ O) or L (large ~ O)

Water - **pH acceptable upon receipt?** ☐ Yes ☐ No SOIL

☐ **pH adjusted**– Preservative used: ☐ HNO_3 ☐ HCl ☐ H_2SO_4 ☐ NaOH ☐ ZnOAc

For any item check-listed "No", provided detail of discrepancy in comment section below:

Comments:

Project Management [Routing for instruction of indicated discrepancy(ies)]

Project Manager: (initials) _____ Date: _____/_____/03

Client contacted: ☐ Yes ☐ No

Summary of discussion:

Corrective Action (per PM/Client):

Sample Chain-of-Custody/Analysis Request

Kennedy/Jenks Consultants

Possible Hazards: Analytes

Client: Praxair | Report to: M. Durant

Site: 901 Embarcadero | Company: K/J

Project No.: 000128.00 | Address: 622 Folsom SF

Sampler Name: M. McLeod / R. Tecson | Telephone: 415-243-2150 | Fax: 415-896-0999

Lab Destination: STL

Address: 1220 Quarry Ln Pleasanton

Telephone: 925-484-1919

Carrier/Way Bill No.: n/a

(1) Lab ID No.	(1) Client ID No.	Collection Date	Collection Time	(2) Type	Depth	(3) Comp.	(4) Pres.	Turn-around	(5) Analyses Requested: Hg (7471A)	pH (9045)	TPHd, mo (8015)	CAM 17 metals (6010)	Comment/Conditions (container type, container number, etc.)
	"11" CONF-2-A	4/15/03	1110	S	3"	N_2	4°C	STD	X	X			
	"11" CONF-5-A	4/15/03	1155	↓	18"	↓	↓	↓	X	X			
	"13" CONF-4-A	4/15	1050	↓	12"	↓	↓	↓			X	X	
													2.0° a

(1) Write only one sample number in each space.
(2) Specify type of sample(s): Water (W), Solid (S), or indicate type.
(3) Mark each sample which should be composited in Laboratory as follows: Place an "A" in box for each sample that should be composited into one sample; use sequential letter for additional groups.
(4) Preservation of sample.
(5) Write each analysis requested across top. Place an "X" in appropriate column to indicate type of analysis needed for each sample.

Sample Relinquished By: Print Name	Signature	Company	Date	Time	Sample Received By: Print Name	Signature	Company	Date	Time
Mike McLeod		K/J	4/16/03	1205	B Morrow	B Morrow	STL	4/16/03	1205
B Morrow	B Morrow	STL-SF	4/16/03	1737					
					Nouna K.		STL-SF	4/16/03	1737

Appendix E

Residuals Management Documentation

Form Approved OMB No. 2050-0039 (Expires 9-30-99)
Please print or type. *Form designed for use on elite (12-pitch) typewriter.*

See Instructions on back of page 6.

Department of Toxic Substances Control
Sacramento, California

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. | Manifest Document No.: CAD982041466 | 22800

2. Page 1 of 1

Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
Praxair, Inc.
901 Embarcadero
Oakland, CA 94606

4. Generator's Phone ( ) 925-299-9225

A. State Manifest Document Number: 22722800

B. State Generator's ID:

5. Transporter 1 Company Name: DenBeste Trans, Inc | 6. US EPA ID Number: CAD982513632

C. State Transporter's ID [Reserved.]:

D. Transporter's Phone: 800 838 1477

7. Transporter 2 Company Name | 8. US EPA ID Number:

E. State Transporter's ID [Reserved.]:

F. Transporter's Phone:

9. Designated Facility Name and Site Address
Chemical Waste Management, Inc
35251 Old Skyline Road
Kettleman City, CA 93239

10. US EPA ID Number: CAT000646117

G. State Facility's ID: CAT000616117

H. Facility's Phone: 1-559-386-9711

11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste Number
a. Non-RCRA Hazardous Waste, Solid	001	DT	00018	Y	State 611/181 / EPA/Other
b.					State / EPA/Other
c.					State / EPA/Other
d.					State / EPA/Other

J. Additional Descriptions for Materials Listed Above
Approval #: a) EB9983 (Soil c/w petroleum hydrocarbons & metals)

K. Handling Codes for Wastes Listed Above
a. U3 | b. | c. | d.

15. Special Handling Instructions and Additional Information
Wear proper clothing when handling material
24-hr. Emergency #: (800) 255-3924 ERG#: a) N/A

16. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

TRK 25 #302727

GENERATOR

Printed/Typed Name: W J Callahan IV | Signature | Month 04 Day 15 Year 03

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: TIM Golden | Signature | Month 04 Day 15 Year 03

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name | Signature | Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name: Capra Ashworth | Signature | Month 04 Day 15 Year 03

DO NOT WRITE BELOW THIS LINE.

DTSC 8022A (1/99)
EPA 8700—22

White: TSDF SENDS THIS COPY TO DTSC WITHIN 30 DAYS.
To: P.O. Box 3000, Sacramento, CA 95812

WEIGHT (LB)	TIME	DATE	COMMODITY: HAZARDOUS WASTE
GROSS:	13:12	4-15-03	71200 lb 35.60 ton
TARE:	13:45	04/15/03	31400 lb 15.70 ton
NET:	39800		
YARDAGE:			

DEPUTY WEIGHTMASTER

CHEMICAL WASTE MANAGEMENT, INC.
WEIGHMASTER weighed at
35251 Old Skyline Road
Kettleman City, CA
NO: 98735

WEIGHMASTER CERTIFICATE

This is to certify that the following described commodity was weighed, measured, or counted by a WEIGHMASTER, whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by CHAPTER 7 (commencing with § 12700) of Division 5 of the California Business & Professions Code, administered by the Division of Measurement Standards of California Department of Food and Agriculture.

GENERATOR	MANIFEST	PROFILE NO.
Praxair	22722300	EB9983
TRACTOR LICENSE NO.	BIN #	RECEIPT #
1P03184	155	423182

0

Tim Dorbeste

4/04
35 BR
1314
CA

Brown rocky
Soil

State of California—Environmental Protection Agency
Form Approved OMB No. 2050-0039 (Expires 9-30-99)
Please print or type. Form designed for use on elite (12-pitch) typewriter.

See Instructions on back of page 6.

Department of Toxic Substances Control
Sacramento, California

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.	Manifest Document No.	2. Page 1 of	Information in the shaded areas is not required by Federal law.
CAD982044611			

3. Generator's Name and Mailing Address
Praxair, Inc.
901 Embarcadero
Oakland, CA 94606

4. Generator's Phone ( ) 925-299-9225

A. State Manifest Document Number: 22722801

B. State Generator's ID:

5. Transporter 1 Company Name: BG's Trucking

6. US EPA ID Number: CAD982617015917

C. State Transporter's ID [Reserved.]:

D. Transporter's Phone: 209-374-1734

7. Transporter 2 Company Name:

8. US EPA ID Number:

E. State Transporter's ID [Reserved.]:

F. Transporter's Phone:

9. Designated Facility Name and Site Address
Chemical Waste Management, Inc
35251 Old Skyline Road
Kettleman City, CA 93239

10. US EPA ID Number: CAT080064611 7

G. State Facility's ID: CAT000646117

H. Facility's Phone: 1-559-386-9711

11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste Number
a. Non-RCRA Hazardous Waste, Solid	001	DT	00018	Y	State 611/181 EPA/Other
b.					State EPA/Other
c.					State EPA/Other
d.					State EPA/Other

J. Additional Descriptions for Materials Listed Above
Approval #: a) EB9983 (Soil c/w petroleum hydrocarbons & metals)
Lic#9316261

K. Handling Codes for Wastes Listed Above
a. Q3 b.
c. d.

15. Special Handling Instructions and Additional Information
Wear proper clothing when handling material
24-hr. Emergency #: (800) 255-3924 ERG#: a) N/A

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

GENERATOR

Printed/Typed Name	Signature	Month	Day	Year
W J Callahan		04	15	03

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
Gary Kirk		04	15	03

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Month	Day	Year
Ogra Ashworth		04	15	03

DO NOT WRITE BELOW THIS LINE.

IN CASE OF EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802. WITHIN CALIFORNIA, CALL 800-8[illegible]50

DTSC 8022A (1/99)
EPA 8700—22

White: TSDF SENDS THIS COPY TO DTSC WITHIN 30 DAYS.
To: P.O. Box 3000, Sacramento, CA 95812

WEIGHT (LB)	TIME	DATE	COMMODITY: HAZARDOUS WASTE
GROSS:	13:53	4-15-03	73340 lb 36.67 ton
TARE:	14:27	04/15/03	32540 lb 16.27 ton
NET:			
YARDAGE:	40800		

DEPUTY WEIGHMASTER

CHEMICAL WASTE MANAGEMENT, INC.
WEIGHMASTER weighed at
35251 Old Skyline Road
Kettleman City, CA
NO: 98744

WEIGHMASTER CERTIFICATE

This is to certify that the following described commodity was weighed, measured, or counted by a WEIGHMASTER, whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by CHAPTER 7 (commencing with § 12700) of Division 5 of the California Business & Professions Code, administered by the Division of Measurement Standards of California Department of Food and Agriculture.

GENERATOR	MANIFEST	PROFILE NO.
Various	22772301	ES9953
TRACTOR LICENSE NO.	BIN #	RECEIPT #
9B66761		423143

Gary
BBs

4/104
3C EP
1400
CA

Brown Rock
Soil w/ Concrete

State of California—Environmental Protection Agency
Form Approved OMB No. 2050-0039 (Expires 9-30-99)
Please print or type. Form designed for use on elite (12-pitch) typewriter.

See Instructions on back of page 6.

Department of Toxic Substances Control
Sacramento, California

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.	Manifest Document No.	2. Page 1 of	Information in the shaded areas is not required by Federal law.
CAD982044661			

3. Generator's Name and Mailing Address
Praxair, Inc.
901 Embarcadero
Oakland, CA 94606
4. Generator's Phone ( ) 925-299-9225

A. State Manifest Document Number: 22722802
B. State Generator's ID:

5. Transporter 1 Company Name: Falcon Tank
6. US EPA ID Number: CAR000548588
C. State Transporter's ID [Reserved.]
D. Transporter's Phone: 925-625-0324

7. Transporter 2 Company Name:
8. US EPA ID Number:
E. State Transporter's ID [Reserved.]
F. Transporter's Phone:

9. Designated Facility Name and Site Address
Chemical Waste Management, Inc
35251 Old Skyline Road
Kettleman City, CA 93239
10. US EPA ID Number: CAT000646117
G. State Facility's ID: CAT000646117
H. Facility's Phone: 1-559-386-9711

11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste Number
a. Non-RCRA Hazardous Waste, Solid	001	DT	00018	Y	State 611/181 / EPA/Other
b.					State / EPA/Other
c.					State / EPA/Other
d.					State / EPA/Other

J. Additional Descriptions for Materials Listed Above
Approval #: a) EB9983 (Soil c/w petroleum hydrocarbons & metals)

K. Handling Codes for Wastes Listed Above
a. 03 b.
c. d.

15. Special Handling Instructions and Additional Information
Wear proper clothing when handling material
24-hr. Emergency #: (800) 255-3924 ERG#: a) N/A

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment, OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name	Signature	Month	Day	Year
W J CALLAHAN	W J Callahan	01	15	03

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
MIKE BORABELLA	Mike Borabella	01	15	03

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Month	Day	Year
Capra Ashwoath		01	15	03

DO NOT WRITE BELOW THIS LINE.

GENERATOR

IN CASE OF EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA, CALL 1-800-852-7550

DTSC 8022A (1/99)
EPA 8700—22

White: TSDF SENDS THIS COPY TO DTSC WITHIN 30 DAYS.
To: P.O. Box 3000, Sacramento, CA 95812

WEIGHT (LB)	TIME	DATE		COMMODITY: HAZARDOUS WASTE
GROSS:	15:28	4-15-03	58340 lb 29.17 ton	DEPUTY WEIGHMASTER
TARE:	16:09	04/15/03	29300 lb 14.65 ton	
NET:	29040			
YARDAGE:	18 yd			

CHEMICAL WASTE MANAGEMENT, INC.
WEIGHMASTER weighed at
35251 Old Skyline Road
Kettleman City, CA

NO: 98600

WEIGHMASTER CERTIFICATE

This is to certify that the following described commodity was weighed, measured, or counted by a WEIGHMASTER, whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by CHAPTER 7 (commencing with § 12700) of Division 5 of the California Business & Professions Code, administered by the Division of Measurement Standards of California Department of Food and Agriculture.

GENERATOR	MANIFEST	PROFILE NO.
PRAX AIR	00722802	F83983
TRACTOR LICENSE NO.	BIN #	RECEIPT #
5J44438		423215

0

Mike
Freds

4/04
3C B12
1534
CA

☐ **Keller Canyon Sanitary Landfill**
901 Bailey Road
Pittsburg, CA 94565
Phone (925) 458-9800
Fax (925) 458-9891

☐ **Ox Mountain Sanitary Landfill**
12310 San Mateo Road
Half Moon Bay, CA 94019
Phone (650) 726-1819
Fax (650) 726-9183

☐ **Newby Island Sanitary Landfill**
1601 Dixon Landing Road
Milpitas, CA 95035
Phone (408) 945-2800
Fax (408) 262-2871

☒ **Forward Landfill**
9999 S. Austin Road
Manteca, CA 95336
Phone (209) 982-4298
Fax (209) 982-1009

NON-HAZARDOUS WASTE MANIFEST

GENERATOR: Praxair, Inc.
MAILING ADDRESS: P.O. Box 237
CITY, STATE, ZIP: Keasbey, NJ 08832
PHONE: 732-(~~958~~) 738-3424
CONTACT PERSON: Nick Difranco
SIGNATURE OF AUTHORIZED AGENT / TITLE: * Nicholas A. DiFranco
DATE: 4/8/03

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or title 22 of the California code of regulations, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if the waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

WASTE TYPE:
- ☐ DISPOSAL
- ☐ CONSTRUCTION
- ☐ DEBRIS
- ☐ SPECIAL WASTE
- ☐ SLUDGE
- ☐ WOOD
- ☐ OTHER

GENERATING FACILITY: 901 Embarcadero St. OAKLAND

WASTE ACCEPTANCE NO.
3164

REQUIRED PERSONAL PROTECTIVE EQUIPMENT
☐ GLOVES ☐ GOGGLES ☐ RESPIRATOR ☐ HARD HAT
☐ TY-VEK ☐ OTHER

SPECIAL HANDLING PROCEDURES:

RECEIVING FACILITY

TRANSPORTER: ~~DenBeste Transportation~~ FREDS TRUCKING
ADDRESS: 820 DenBeste Court
CITY, STATE, ZIP: Windsor, CA 95492
PHONE: (707) 838-1407
SIGNATURE OF AUTHORIZED AGENT OR DRIVER: * Mike Gaucher
DATE: 4-15-03

NOTES:

VEHICLE LICENSE NUMBER	TRUCK NUMBER
5P 44438	F3

END DUMP	BOTTOM DUMP	TRANSFER
☒	☐	☐

ROLL-OFF(S)	FLAT-BED	VAN	DRUMS
☐	☐	☐	☐

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

REMARKS

FACILITY TICKET NUMBER

SIGNATURE OF AUTHORIZED AGENT: *
DATE:

CUBIC YARDS: 20

DISPOSAL METHOD: (TO BE COMPLETED BY LANDFILL)

	DISPOSE	OTHER
☐ SOIL		
☐ CONSTRUCTION DEBRIS		
☐ NON-FRIABLE ASBESTOS		
☐ WOOD		
☐ ASH		
☐ SPECIAL OTHER		

SCHEDULING MUST BE MADE PRIOR TO 3:00 P.M. THE DAY PRIOR TO EXPECTED ARRIVAL • ANY UNSCHEDULED LOADS ARE SUBJECT TO REFUSAL UPON ARRIVAL. ONGOING DAILY DELIVERIES MUST BE SCHEDULED WITH THE LANDFILL THE DAY BEFORE.

GENERATOR COPY

MANIFEST # 222655

☐ **Keller Canyon Sanitary Landfill**
901 Bailey Road
Pittsburg, CA 94565
Phone (925) 458-9800
Fax (925) 458-9891

☐ **Ox Mountain Sanitary Landfill**
12310 San Mateo Road
Half Moon Bay, CA 94019
Phone (650) 726-1819
Fax (650) 726-9183

☐ **Newby Island Sanitary Landfill**
1601 Dixon Landing Road
Milpitas, CA 95035
Phone (408) 945-2800
Fax (408) 262-2871

☒ **Forward Landfill**
9999 S. Austin Road
Manteca, CA 95336
Phone (209) 982-4298
Fax (209) 982-1009

NON-HAZARDOUS WASTE MANIFEST

GENERATOR
Praxair, Inc.

MAILING ADDRESS
P.O. Box 237

CITY, STATE, ZIP
Kearsbey, NJ 08832

PHONE
732 (~~908~~) 738-3424

CONTACT PERSON
Nick Difranco

SIGNATURE OF AUTHORIZED AGENT / TITLE | DATE
* Nicholas A. DiFranco | 4/8/03

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or title 22 of the California code of regulations, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; **AND, if the waste is a treatment residue of a previously restricted hazardous waste** subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

WASTE TYPE:
- ☐ DISPOSAL
- ☐ CONSTRUCTION
- ☐ DEBRIS
- ☐ SPECIAL WASTE
- ☐ SLUDGE
- ☐ WOOD
- ☐ OTHER

GENERATING FACILITY
901 Embarcadero St. OAKLAND

WASTE ACCEPTANCE NO.
3164

REQUIRED PERSONAL PROTECTIVE EQUIPMENT
☐ GLOVES ☐ GOGGLES ☐ RESPIRATOR ☐ HARD HAT
☐ TY-VEK ☐ OTHER

SPECIAL HANDLING PROCEDURES:

RECEIVING FACILITY

TRANSPORTER
~~DenBeste Transportation~~ Hancock

ADDRESS
820 DenBeste Court

CITY, STATE, ZIP
Windsor, CA 95492

PHONE
(707) 838-1407

SIGNATURE OF AUTHORIZED AGENT OR DRIVER | DATE
* Steve Hancock | 4-15-03

NOTES:

VEHICLE LICENSE NUMBER	TRUCK NUMBER
9A99138 2226	5013

END DUMP	BOTTOM DUMP	TRANSFER
☒	☐	☐

ROLL-OFF(S)	FLAT-BED	VAN	DRUMS
☐	☐	☐	☐

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

REMARKS

FACILITY TICKET NUMBER

SIGNATURE OF AUTHORIZED AGENT | DATE
*

CUBIC YARDS
18

DISPOSAL METHOD: (TO BE COMPLETED BY LANDFILL)

	DISPOSE	OTHER
☐ SOIL		
☐ CONSTRUCTION DEBRIS		
☐ NON-FRIABLE ASBESTOS		
☐ WOOD		
☐ ASH		
☐ SPECIAL OTHER		

SCHEDULING MUST BE MADE PRIOR TO 3:00 P.M. THE DAY PRIOR TO EXPECTED ARRIVAL • ANY UNSCHEDULED LOADS ARE SUBJECT TO REFUSAL UPON ARRIVAL. ONGOING DAILY DELIVERIES MUST BE SCHEDULED WITH THE LANDFILL THE DAY BEFORE.

GENERATOR COPY

MANIFEST # 222656

(949)369-8221

CUSTOMER ACTIVITY REPORT
From: Apr 01, 2003 To: Apr 22, 2003
Specified Customer: 3164

Eric

Facility: All Facilities — DETAILED REPORT — Ticket Type: All Ticket Types

Ticket Date	Ticket Number	Contract	Truck ID	Material	Material Rate	Billing Quantity	Material Total	Tax Total	Total
003164-0000 - CORNERSTONE ENVIRONMENTAL									
04-15-03	221253-00	3164#	FREDS F3	CLASS II COVER SI		21.51 TN		$0.00	
04-15-03	221335-00	3164#	HANCOCK #3	CLASS II COVER SI		28.33 TN		$0.00	
							CUSTOMER TOTALS:	$0.00	

Tickets Reported: 2

Material Summary	Inbound Weight	Inbound Volume	Outbound Weight	Outbound Volume	Billing Quantity	Tax	Total
12 - CLASS II COVER SOIL	49.84 TN	36.00 YD	0.00 TN	0.00 YD	49.84 TN		

Cash Total: $0.00
Invoice Total: $0.00
Report Total: $0.00

Total Tickets: 2

FORWARD LANDFILL