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FINAL
STATISTICAL ANALYSIS OF THE OCCURRENCE OF BERYLLIUM IN SOILS TECHNICAL REPORT

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1.0 Introduction

During the remedial investigation (RI) of soils at Naval Air Station (NAS) Moffett Field, levels of beryllium were detected that result in incremental lifetime cancer risks (ILCRs), exceeding the upper acceptable value (1.0×10^{-4}) under a future (hypothetical) residential land-use scenario for Sites 4, 7, and 10 (IT, 1993). The RI Report indicates that there is no on-site source for the beryllium and that the beryllium distribution was due to naturally occurring beryllium in geologic materials at NAS Moffett Field.

The purpose of this investigation was to establish the reason for elevated beryllium concentrations found in some soil samples at NAS Moffett Field. Statistical analyses and mapping of beryllium values were undertaken to evaluate the beryllium distribution and to ascertain whether the beryllium concentrations at Moffett Field are naturally occurring being controlled by geologic materials or geochemical processes, or if the distribution of beryllium found at the sites at NAS Moffett Field are due to human activities at the base.

This report discusses the several aspects of beryllium geochemistry at NAS Moffett Field and the statistical tools used to evaluate the beryllium data. The following topics will be discussed:

- The general geochemistry of beryllium and its natural occurrence
- The typical industrial uses of beryllium and historical use at NAS Moffett Field
- Evaluation of the frequency distributions for the soils data to establish if gaussian (normal), skewed (lognormal), or multimodal distributions are represented, or if there were significant outliers
- Spatial plotting of beryllium concentrations in soil samples to evaluate spatial correlation of higher or lower values.
- Evaluation of the correlation between the distribution of beryllium in soils and soil type, site location, or sample depth interval using nonparametric analysis of variance and multiple comparison procedures.

1.1 Geochemistry of Beryllium and its Natural Occurrence

Beryllium is the lightest of the alkaline earth metals (atomic weight 9.01) due to its atomic structure. Like the other alkaline earth metals, such as magnesium and calcium, beryllium has a 2+ ionic charge. However, beryllium has a very small ionic radius (0.31 angstroms)

and thus its chemistry is much different than the other alkaline earth metals or 2+ valence base metals such as zinc and cadmium. The geochemistry of beryllium is more similar to silicon. Beryllium is not known to occur as a native metal naturally. Metallic readily bonds with oxygen to form inert and geochemically immobile (insoluble) oxides. Beryllium does not occur as a major constituent of common rock-forming minerals such as are found in soils at NAS Moffett Field. High concentrations (> 100 ppm) of beryllium only occur naturally in geologic materials that have undergone alteration due to magmatic or hydrothermal processes. Minerals in which beryllium is a major constituent are restricted to late-stage magmatic/ore-forming minerals, such as beryl, bertrandite, and chrysoberyl, none of which are expected in the soils derived from the rocks exposed in the Santa Cruz Mountains and Diablo Ranges near NAS Moffett Field. Principal sources of beryllium in the United States are found in the Carolinas, Utah, and Alaska (Griffitts, 1973).

Analyses of coal indicate that beryllium is present in coal at levels of about 3 parts per million (ppm), and that the fly ash from coal may concentrate beryllium up to 0.1 to 1.0 percent by weight (Balance et al., 1983). Beryllium is also reported at trace levels from 1 to 10 parts per billion (ppb) in crude petroleum from some oil fields (Milner, 1963).

Although beryllium has a 2+ ionic charge, the similarity of its ionic size and electronegativity to that of silicon allows it to substitute for silicon to a limited degree in the sheet and framework silicate minerals mica and feldspar, and their clay alteration products (Rose and others, 1979). Under normal soil forming processes, such as at NAS Moffett Field, beryllium in these minerals is tightly bonded and not available for transport (leaching) or uptake by plants. Under extremely alkaline conditions beryllium hydroxides may be formed and the mobility of beryllium enhanced in a similar way as that observed for hydrated silica. Beryllium in surficial geologic materials does not occur in the more soluble mineral phases such as carbonates, hydroxides, and sulfates. Thus, the mobility of beryllium is very limited.

Beryllium has an extremely low solubility in water, and therefore typically exists in groundwater at very low concentrations (<0.001 μg/L) (Matthess and Harvey, 1982; Hem, 1989). Additionally, in waters of neutral to lower pH (typical of groundwater at NAS Moffett Field), beryllium is strongly adsorbed to clay minerals and organic material (Matthess and Harvey, 1982; Arnold, 1958). Thus, beryllium is highly immobile and unavailable for uptake by plants and animals. From the geochemistry of beryllium, it follows that geologic materials rich in clay minerals and organic material should contain higher concentrations of

beryllium than materials with low clay and organic material contents (Refer to Section 3.0 Table 3-4).

The database compiled by Boerngen and Shacklette (1981), and summarized in Shacklette and Boerngen (1984) shows that for analyses of beryllium in 1,303 samples of naturally-occurring soil in the U.S., 37 percent of the samples had concentrations above 1.75 ppm, 31.4 percent of the samples had concentrations between 1.75 and 3.01 ppm, and 5.6 percent had concentrations between 3.01 and 15 ppm. Higher levels of beryllium are found in soils in mountainous regions where igneous and metamorphic rocks are exposed, and higher concentrations are more common in soils from the western United States (west of the Rocky Mountains). Data from the USGS database indicate that beryllium was not detected above 1 ppm in three samples of unknown soil type in the San Francisco Bay region (Shacklette and Boerngen, 1984); however, soil sampled in the Central Valley of California exhibited levels between 1 and 3 ppm, and other samples from the Sierra Nevada exhibited levels between 3 and 15 ppm.

Concentrations of beryllium in typical unaltered, uncontaminated soils from a variety of regions range from 0.1 to 40 ppm (Table 1-1). The most probable mean concentrations of beryllium in clay-rich, uncontaminated soils are between 0.92 and 6.95 ppm. Beryllium in sandier soils is at lower concentrations. All of the beryllium contents for soil samples at NAS Moffett Field are within this range, and mean concentrations of beryllium in soils at all IRP sites at NAS Moffett Field (Refer to Section 3.0) are less than the most probable mean concentration in uncontaminated clay-rich soils of 3.95 ppm.

No background soil samples have been collected at NAS Moffett Field. However, limited background data for major and trace metals in soils for the NAS Moffett Field area were reported in the OU2 Moffett Field RI Report (IT, 1993). Data used for the background levels of metals in the RI Report were obtained from soil samples from few local sources. Composite samples were taken during construction of the Hetch-Hetchy aqueduct, and the Mountain View water supply well No. 18. Beryllium concentrations found in composite background soil samples ranged from 0.7 to 0.8 ppm in the Hetch-Hetchy samples, and from 0.9 to 1.2 ppm in the soils from Mountain View well No. 18. The collection and analysis of composite samples does not allow for the estimation of the full range of metal values or the variance of a distribution expected from heterogeneous soils. Collection of several discrete samples would better characterize the expected range of background values and the associated variance (standard deviation). Additionally, compositing of clay-rich materials with coarse-

grained materials (sand and gravel), which are more prevalent in soils south of NAS Moffett Field where the background soils were taken, results in lower background beryllium contents than those representative of soils at NAS Moffett Field. The values for the background samples referenced in the RI underestimate the actual mean background beryllium content of soils at the base, and therefore represent a very conservative estimate of background.

1.2 Industrial Beryllium Uses

Beryllium does have a variety of industrial and defense uses. Beryllium has important industrial uses that arise from its high dimensional stability over a wide temperature range, its high specific heat, its high strength, and its low density. Oxides of beryllium are also important because they are electrically inert, have a high heat capacity, and are dimensionally stable. Due to its high cost, the use of beryllium is limited to specialized applications, primarily in mechanical or electrical parts. Historic records indicate that there were no manufacturing processes at NAS Moffett Field that utilized beryllium metal or beryllium compounds. Additionally, since beryllium is present in trace levels in crude petroleum, beryllium may occur in some of the petroleum fractionation products. There are no data concerning the levels found in finished petroleum products such as gasoline or jet petroleum grade 5 (JP-5). It is reasonable to expect, however, that the fractional distillation process used to refine petroleum would concentrate beryllium in the refractory components such as the heavy oil and asphaltic fractions.

1.3 Statistical Methods Used

Chemical data with spatial relationships that show areas where higher or lower concentrations occur with greater frequency generally indicate lithologic control (soil type) of that chemical or an enrichment or depletion process has taken place which controls the chemical's distribution. Such a process can be either natural or anthropogenic, and site-specific information is required to relate the spatial pattern to some feature of the site. Concentration data were classified according to the depth the soil sample was taken from and the soil type of the sample (as indicated in the soil boring logs) to establish if any observed areas of higher or lower beryllium concentrations could be related to depth or the occurrence of specific sediment types.

Frequency distributions for metals may be interpreted to be indicative of certain features or processes that either concentrate or transport the metal of interest. Sample populations that follow a normal or gaussian distribution are commonly obtained when measuring the content of major elements in uniform lithologies (soil types). If a sample data set exhibits a normal

distribution, the variation in the data set is random, and is due to measurement of a number of random effects (Benjamin and Cornell, 1970). If the data set exhibits a lognormal distribution, the variation is due to processes that are the result of proportional responses (Davis, 1973; Benjamin and Cornell, 1970). Measurements of trace metal content of a uniform lithology, or soil type, tend to follow a positively skewed, lognormal distribution (Rose and others, 1979; Shacklette and Boerngen, 1984). Sample populations that show bimodal distributions usually indicate that two lithologies or processes. For complex data distributions usually indicate that two lithologies or separate processes control the occurrence of the metal (Davis, 1973). Complex distributions result when measured metal contents of samples represent a variety of lithologies or processes. For complex data distributions, recognition of causes that control the metal's distribution is difficult or impossible using univariate statistical methods. Under ideal circumstances, frequency distributions may be used to establish if the values of a data set are related by either random variations, or by reworking or cumulative processes.

Goodness-of-fit statistical tests are conducted to determine how closely a data set fits a particular type of distribution. Because measurement of metal contents of natural soils yield either normal or lognormal distributions, the goodness-of-fit tests used in this investigation tested for conformance to normal or lognormal distributions. Because frequency distributions for trace metal contents of naturally occurring materials exhibit a lognormal distribution, a low chi square (F) statistic would support the interpretation that the metal concentrations are the result of natural variation. Data that are approximated by a lognormal distribution are commonly transformed to logarithms (natural or base-10) for further statistical analysis.

In this investigation, nonparametric methods (for example the Kruskal-Wallis test) were used to compare the means and frequency distributions between the site locations, the different soil types, and various depth intervals. A nonparametric test sometimes yields more reliable results when the assumption of normality cannot be made for a given distribution. Subsequently, multiple comparison procedures were used to group site locations and soil types with significantly different beryllium distributions. The software for nonparametric methods used to perform the analysis were obtained from the Statistical Analysis Systems (SAS) Institute.

2.0 Areal Distribution of Beryllium

Beryllium concentrations at Moffett Field were mapped within the discreet depth intervals to establish if there are horizontal or vertical concentration trends at any of the sites. Analytical data for the sites are summarized in Tables 2-1 to 2-13. The facility was divided into two general areas, divided by the Runway Area (Site 10). Data from Sites 3, 4, 5, 6, 7, 10, 13, and 19 were grouped together and were used to characterize soils east of the runway. Sites 8, 9, 11, 12, and 14 were grouped together, and characterize soils west of the runway. Sites 3, 4, 5, 6, 7, 8, 9, and 12 are located within discrete boundaries, while Sites 14 and 19 consist of several tanks located throughout the facility. Site 19 consists of leaking tanks that have been removed, both east and west of the runway; however, soils data are reported only for the tanks near Site 7. Similarly, soils data for tanks associated with Site 14 are available only for the tanks west of the runway.

Analytical data summarized in Tables 2-1 through 2-13 were used to construct Figures 2-1 through 2-3. These tables also provide concentrations of other trace metals for comparison. Inspection of these figures suggests the following:

- Beryllium was found at levels above 3 ppm in the 1- to 3-foot depth interval at Sites 3, 5, 7, 8, 11, 14, and 19 and the highest concentrations (up to 6.5 ppm) were found in the soils at Site 3.

- Beryllium concentrations above 3 ppm were found in soils between 3 and 5 feet deep at Sites 3, 5, 8, and 14, and the highest level detected was 4.9 ppm at Site 5.

- Sites 3, 5, 8, 11, 14, and 19 exhibit beryllium concentrations above 3 ppm in soils between 5- and 10-foot depth, the highest level of beryllium (5.7 ppm) was found at Site 5.

Spatial plotting of data provides a 2-dimensional representation of the distribution of a metal, and can be used to identify spatial trends. A plot of beryllium concentrations in soils samples from the 1- to 3-foot depth interval, the 3- to 5-foot interval, and the 5- to 10-foot interval are shown in Figures 2-1, 2-2, and 2-3, respectively. Approximately 86 percent of the naturally occurring beryllium in surficial materials are below 3 ppm. Although there are some locations where the beryllium concentrations are greater than 3 ppm, most of these values are isolated or are separated from an adjacent high values by 100's of feet. Additionally, these levels are well within the range expected for naturally occurring materials.

Limited spatial correlations of samples with beryllium values greater than 3 ppm occur in the northern part of NAS Moffett Field in the golf course area east of Marriage Road and in the Site 8 area in the deeper 5- to 10-foot interval.

Based on these observations it appears that the beryllium concentrations reported at each site are similar for soil samples collected within the three depth intervals. Although most samples collected exhibit beryllium concentrations within the range expected for natural surficial materials, some of the samples do exhibit concentrations higher than that expected for the San Francisco Bay area, particularly at Sites 3 and 5, indicated by the limited USGS data. However, even these sites do not exhibit levels outside of the range for naturally occurring surficial materials.

3.0 Statistical Analysis

3.1 Basic Statistical Analysis

Simple statistics and chi square statistics were computed for the beryllium concentrations in soil samples at Moffett Field and the results are provided in Appendix A. For the preliminary treatment, sites located adjacent to each other were classified together for the initial statistical treatment. Sites 3, 4, 5, 6, 7, 10, 13, and 19 were classified together, and Sites 8, 9, 11, 12, and 14 were treated together. After determining the basic statistical properties for the two major classifications, the data were divided based on sampling location and soil type. Because the raw data violated the normality assumption and the log-transformed data for all sites failed to adequately normalize the data nonparametric statistical methods were employed to analyze the data.

Simple statistics for the sites on the east side and on the west side of the runway are provided in Table 3-1. The statistical output is included as Appendix A. All data were log transformed by the preliminary statistical program and tested for conformity to a lognormal distribution expected for a naturally occurring trace element (Shacklette and Boerngen, 1984).

The geometric mean for each sample class is less than the geometric mean for the data for naturally occurring surficial material in the United States (US). Due to the high variability of the beryllium values and the limited number of measurements, the geometric deviation is higher than that for the U.S. reported by the USGS studies. The chi square test statistic computed for the two samples classes indicates that the data for east side sites conform more closely to a lognormal distribution (critical value for chi square is 2.71) than do sites on the wide side. Some of the nonconformity of the data may be related to the biased clustered sampling (Figures 2-1 through 2-3) and sampling of different soil materials. The following statistical analysis will examine the data on a more detailed level.

3.2 Statistical Analysis of Data Quality

A one-way, unbalanced-design, hierarchical analysis of variance (ANOV) (Miesch, 1967) was conducted on soil beryllium data collected for quality control purposes during the Phase I and Phase II RI (including data for Sites 1 and 2 not in OU2). This analysis was performed to evaluate the quality of the data with respect to making conclusions about mean beryllium contents at particular sites and when comparing between sites. This parametric method was used on log-transformed data to evaluate the proportion of variance accounted for by: (1) sampling and analytical error; (2) within-site variability; and (3) between site

differences. Although a parametric method was selected for this analysis, due to the robust nature of the test and the approximate lognormal distribution of the data, the results are believed to be reliable. Original and duplicate sample results for OU2 are summarized in Table 3-2. Figure 3-1 shows the variability between analyses of beryllium for duplicate field samples collected at OU2 NAS Moffett Field. Regression of the original sample concentrations against the duplicate concentrations yields a line with a slope of 1.07 which accounts for 90 percent of the scatter in the analytical data (R square = 0.8993). Therefore, the data appears to be reliable.

Appendix B presents the data used for the ANOV. Table 3-3 shows the output from the ANOV run on the log-transformed beryllium data. From these results it can be seen that 66 percent of the data variance is accounted for by within-site variability, probably due to the presence of different soil types. Thus 1 ppm is different from 3 ppm at the 95 percent confidence level. Only 28.6 percent of the variance in beryllium results is accounted for by between site differences, therefore the mean concentrations of most sites are not significantly different. Sampling and analytical error is represented by the 5.5 percent residual data variance, which is consistent with the results of the regression on the duplicate data.

The high within-site variability is likely due to soil heterogeneities and the possibility of strong control of the beryllium distribution due to the presence of different soil types is addressed in Sections 3.3 through 3.5.

3.3 Statistical Classification and Analysis

Soils data collected during the OU2 RI (IT, 1993) at Moffett Field can be classified three different ways:

- Into 3 sample depth intervals
- Into 13 sample locations
- By 4 sediment types.

These sample classifications were chosen to reflect potential processes that may have a bearing on the beryllium concentration at the site. If beryllium is being concentrated by addition at the earth's surface, there should be a decreasing downward trend in the soils. If beryllium is naturally occurring, there should be a consistent frequency distribution that reflects the distribution in surficial materials. If processes at the sites are contributing beryllium to the soils, there should be a correlation to the location.

Simple statistics for the sample classes are presented in Tables 3-4 through 3-6. The geometric means for the sample data classified by site ranges from 0.062 to 1.291 ppm, and from 0.158 to 0.853 ppm when data are classified by sediment type. Geometric means for the soils sample data vary much less when classified by depth, from 0.45 to 0.53 ppm. However, all sample class exhibit geometric means within 50 percent of the mean for North America.

To facilitate the statistical analysis of the three types of sample classes, the software available from the SAS was employed. Simple statistics and the approach of the frequency distribution to normality for each of the classes was computed using the SAS procedure UNIVARIATE. This procedure tests the class for normality by comparison of two computed test statistics (W) and a probability value (p). The procedure provides as output the test statistics, a frequency distribution bar chart, normality plot, and measures of the moments around the mean for the frequency distribution. These data are provided in Appendix C. The UNIVARIATE procedure was performed on both untransformed and log-transformed beryllium concentrations. Examination of the histogram for the nontransformed data suggests that the data are very strongly skewed toward low concentrations, less than 0.5 ppm. Transformation of the data by log-normalizing produced a frequency distribution that closely approximates a normal distribution. The test statistic (W) for the nontransformed data is 0.802 where as the value of W for the transformed data is 0.883. The test statistic (W) for the log-transformed data is closer to 1.0; thus, the frequency distribution for beryllium concentrations in soil more closely conforms to a lognormal distribution.

Frequency distributions for the sample classes are provided in Appendix C as bar charts. Some sample classes do not contain sufficient points to establish if the frequency distribution conforms to a normal or lognormal distribution (e.g., Sites 6, 10, and 13). Sites 5 and 9 contain enough data points to provide a well developed frequency distribution. The bar chart for Site 5 appears to be skewed toward lower values with about 80 percent of the data for that site below 3 ppm. The bar chart for Site 9 is strongly skewed toward low values, with more than 81 percent of the data falling below 3 ppm. These distributions appear to be lognormal. When sample data are classified by soil type, there are enough data to establish the type of frequency distribution for each class. Data from the shallow soils are very strongly skewed toward low values, with more than 85 percent of the samples from that soil type exhibiting concentrations below 1.75 ppm. Soils classified as clays also appear skewed toward low values, although not as strongly as the shallow soils, with about 70 percent of the samples exhibiting concentrations below 1.75 ppm. Similarly, about 80 percent of the soils

classified as fine-grained sediments have concentrations below 1.75 ppm. Bar charts for the frequency distribution of beryllium concentrations in Appendix C appear to conform to a lognormal distribution, and the distribution for beryllium in clays and fine sediments are similar to that of North American surficial materials. Data for coarse-grained sediments are difficult to interpret from the bar chart due to the small sample size.

3.4 Nonparametric Analysis of Variance

A Kruskal-Wallis test, a nonparametric analogue to the one way analysis of variance (ANOVA), was used to determine whether there is a statistically significant difference in the beryllium distribution with depth intervals, sampling locations, or soil types. The significance level chosen for this procedure was 10 percent, i.e., the test statistic (W) should be significantly small so that there is a 90 percent certainty that the means are different. A significance level (α) of 0.1 is considered conservative, intended to identify potential differences within comparisons, although with less certainty than a more aggressive significance level of 0.05. The input and output for the Kruskal-Wallis test for site locations, depth intervals, and soil types are presented in Appendix C.

Table 3-7 presents the results of the Kruskal-Wallis test for each class. The p-value computed for the three depth intervals was 0.4304, a value greater than the reference probability of 0.01; therefore, the null hypothesis of equal sample means for the different depths could not be rejected. Computed geometric mean values for the beryllium concentration in soil at the three different depth intervals had approximately same values, 0.445, 0.527, and 0.518 ppm, respectively (Table 3-6). This result suggests that the soils are homogeneous through the upper 10 feet indicating that there is no process that differentiates the distribution of beryllium in the soils and that beryllium is not being contributed to surficial materials.

The results of the Kruskal-Wallis test indicated that at the 10 percent significance level (i.e., 90 percent confidence) there is a significant difference in beryllium distribution with site locations and with soil types. The p-value for the site locations and soil types was 0.0001, a value smaller than the reference probability of 0.01. Consequently the null hypothesis of equal sample means for the soil types and the site locations was rejected.

3.5 Multiple T-Test Procedures

The Kruskal-Wallis test established that sediment locations and soil types had significantly different beryllium distributions but did not indicate which site locations or sediment types were distinctly different. A multiple t-test was conducted on the log-transformed data to

determine which site locations and sediment types exhibited significant differences. The multiple t-test limits the error in the differences between one mean and all other means to which it is compared. The output for the multiple t-test procedure is presented in Appendix C.

Tables 3-8 and 3-9 summarize the results of the multiple comparison procedures for the site locations and sediment types, respectively. These tables show the sample classes arranged in order of decreasing mean and identified as belonging to classes based on the similarity of the data's frequency distributions. Sample classes with the same letter are similar to each other within a 90 percent confidence level.

From examination of Table 3-8 the frequency distribution falls into eight categories. Although there is some overlap between the categories (A through H) for the sites, those sites labeled A and B have distinctly different distributions from those labeled with E through H.

Table 3-9 provides similar samples classified by sediment types, and suggests that clays (Group A) are significantly different from fine and coarse grained sediments (Group B). However, fine grained sediments and coarse grained sediments have similar distributions. This result is consistent with the established geochemistry of beryllium. Also, beryllium contents of soils from samples designated as shallow are lower than for the other two soil groups.

These results indicate that the distribution of beryllium is controlled primarily by soil type, and that soils from individual sites may have higher or lower beryllium contents depending upon predominance of soil type sampled. Therefore, the relationship between site location and soil sample type was examined. Table 3-10 presents the number of samples belonging to each of the soil classes for each site. When the mean beryllium contents for each site from Table 3-4 are compared with the results in Table 3-10, it can be seen that those sites that have the highest mean beryllium content for soils (Sites 3, 5, 10, 14 and 19) all have clay as the predominant soil sample type. Those sites with the lowest mean beryllium contents (Sites 11, 12, and 13) have a predominance of shallow soil samples. Thus, the relationships observed between beryllium concentrations and site location and sediment type are interdependent, and do not indicate beryllium contamination.

4.0 Conclusions

The statistical treatments used in this investigation reveal the following characteristics of the beryllium distribution at Moffett Field:

- Beryllium concentrations in soils exhibit a log-normal distribution, and are within the range expected from natural sediments in North America. The geometric mean for all classes of data is within 50 percent of the geometric mean for uncontaminated soils in the U.S. The beryllium distribution in soils at NAS Moffett Field is similar to the distribution for background soils from the U.S. with more than 65 percent of the observations in all classes (which contain sufficient data) below 1.75 ppm, and more than 85 percent below 3.0 ppm.

- Beryllium data classified by the depth of sample indicate no difference in the mean content; therefore, any process that impacts beryllium concentration is not depth specific. Specifically, there is no vertical concentration gradient for beryllium at NAS Moffett Field, which would be expected if beryllium was either added to surface soils or was leached from surface soils.

- Beryllium data classified by site location and soil type for multiple comparison treatments, allows for grouping of classes that have similar means and distributions. Sites 3, 5, 6, 10, 4, 14, and 19 were found to exhibit similar distributions, and all have (geometric) means greater than 0.58 ppm. Sites 9, 11, 12, and 13 all have means of 0.28 ppm or less. The data for the sample class clay was found to have a geometric mean of 0.85 ppm. The data for sample classes fine-grained and coarse-grained sediment were found to be similar with means of 0.56 ppm and 0.51 ppm. Samples classified as shallow were differentiated from both groups with a geometric mean of 0.16 ppm.

Multiple comparison tests indicate that there is a statistically significant relationship between the sample sediment type and beryllium distribution. These tests also indicate that beryllium data from some sites can be grouped and are statistically different than data from other sites. The sites with the highest mean beryllium contents in soils have a predominance of a clay rich soil. Those sites where a predominance of coarser-grained soil or "shallow" samples were collected have lower mean beryllium contents.

Due to the close approximation of the beryllium distribution for all classes of observations to the distribution expected for naturally occurring surficial materials and the interrelation between beryllium content, site location, and sediment type, the occurrence of beryllium observed at NAS Moffett Field is natural. This conclusion is supported by the lack of any evidence that indicates any use or release of beryllium at NAS Moffett Field.

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N00296.001987
MOFFETT FIELD
SSIC NO. 5090.3

FIGURES

FINAL STATISTICAL ANALYSIS OF THE OCCURRENCE OF BERYLLIUM IN SOILS TECHNICAL REPORT

DATED 26 JANUARY 1994

DRAWING NO.: 42331401-D-01
PROJ. NO.: 423314

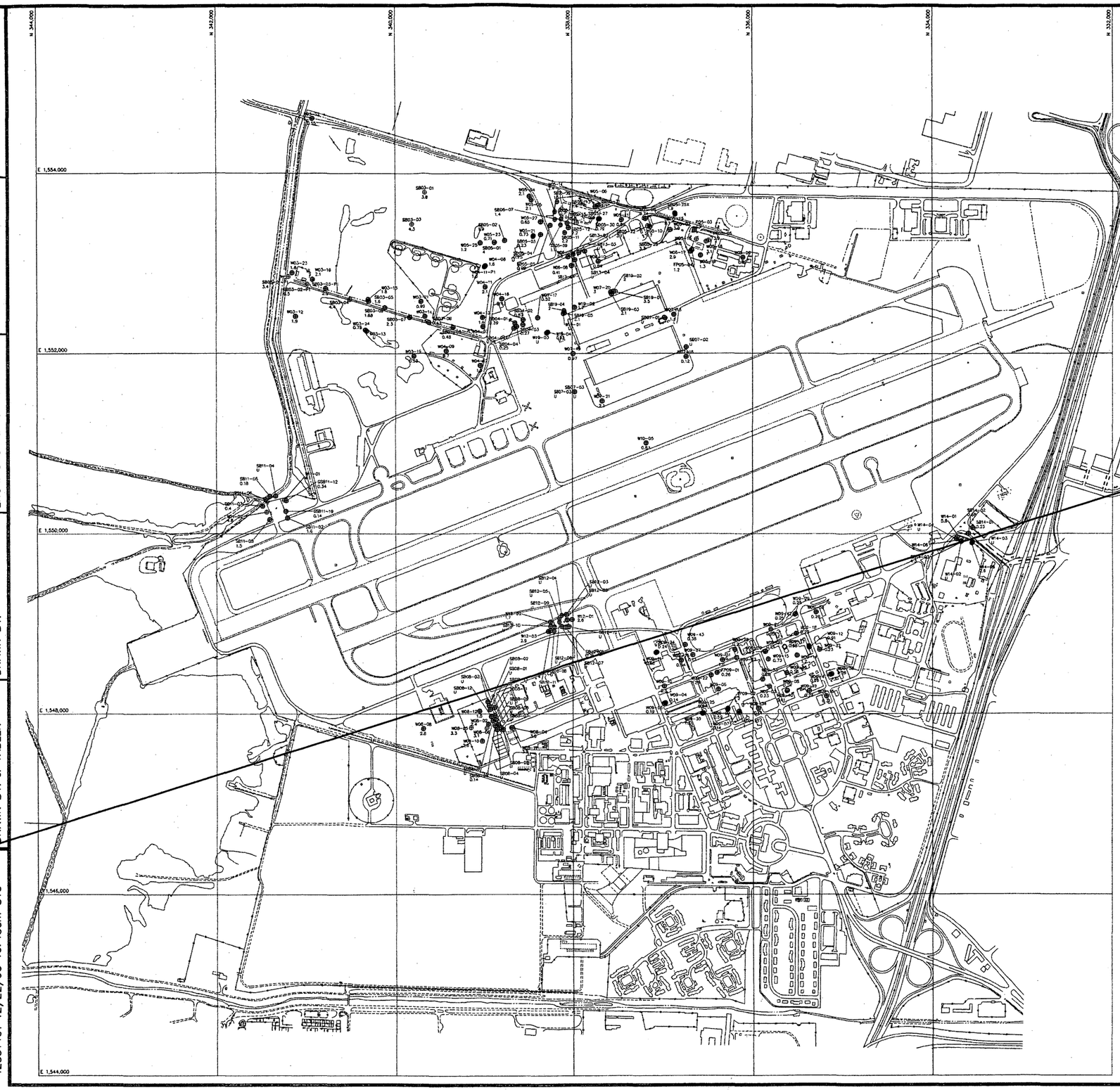
INITIATOR: K. BRADLEY
PROJ. MGR.: K. BRADLEY

DRAFT. CHCK. BY: R. PITTS
ENGR. CHCK BY: J. REAGAN

DATE LAST REV.:
DRAWN BY:

STARTING DATE: 8/27/93
DRAWN BY: J. TABLER

42331401 12/22/93 10:43am STC



LEGEND:

W14-03 U — SAMPLE LOCATION

BERYLLIUM CONCENTRATION (ppm)
u – NON DETECT

W14-01 5.6 — BERYLLIUM CONCENTRATIONS GREATER OR EQUAL TO 5 ppm

W14-06 4 — BERYLLIUM CONCENTRATIONS GREATER THAN 3 ppm BUT LESS THAN 5 ppm

SCALE:

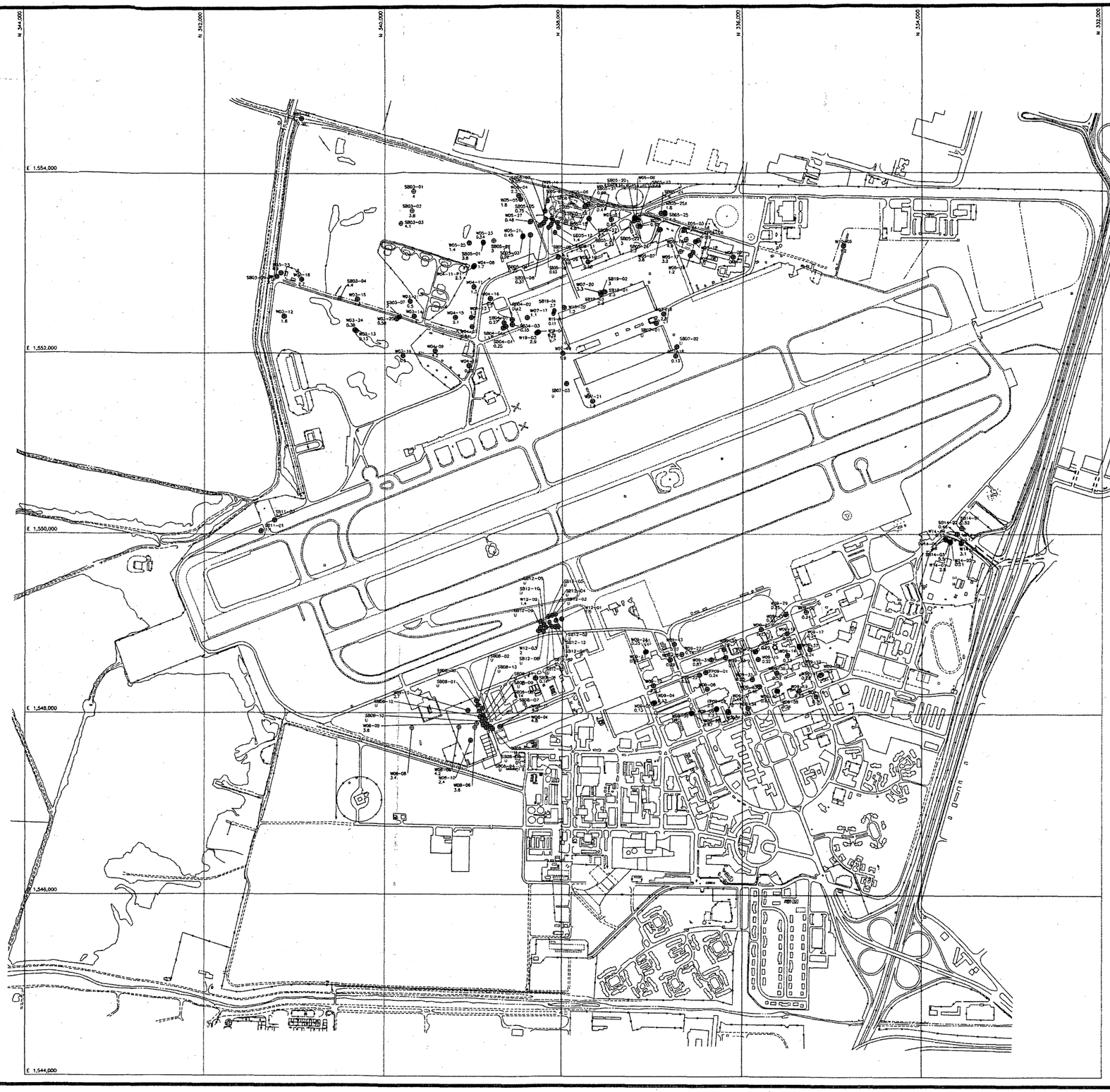
0 1000 2000 FEET

FIGURE 2-1

BERYLLIUM CONCENTRATIONS IN SOIL MAP
DEPTH 1-3 FEET

NAVAL AIR STATION
MOFFETT FIELD, CALIFORNIA

INTERNATIONAL TECHNOLOGY CORPORATION



LEGEND:

⊕ W14-03 U	SAMPLE LOCATION BERYLLIUM CONCENTRATION (ppm) u – NON DETECT
W14-01 ⊕ 5.6	BERYLLIUM CONCENTRATIONS GREATER OR EQUAL TO 5 ppm
W14-06 ⊕ 4	BERYLLIUM CONCENTRATIONS GREATER THAN 3 ppm BUT LESS THAN 5 ppm

SCALE:

0 1000 2000 FEET

FIGURE 2-2

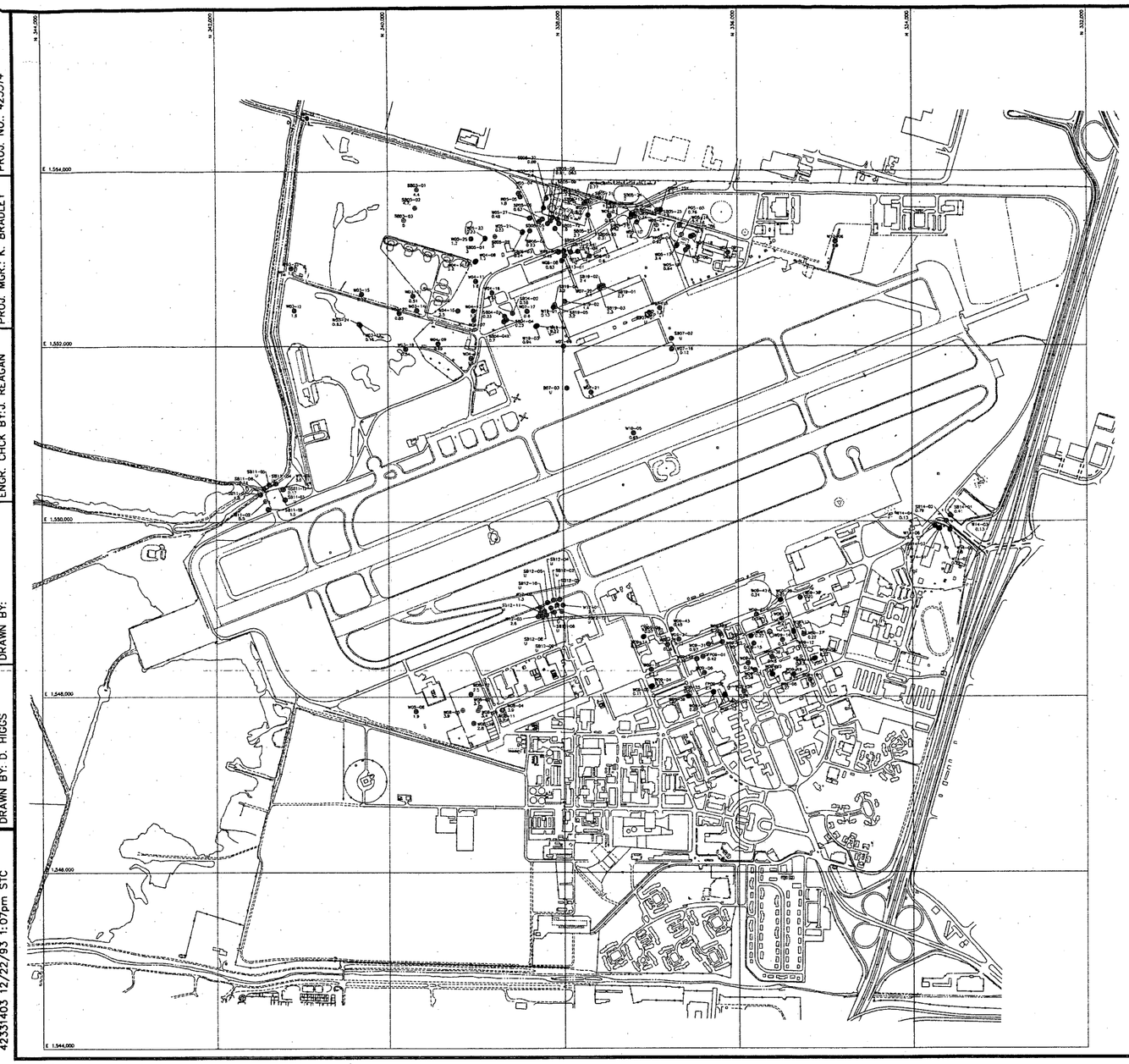
BERYLLIUM CONCENTRATION IN SOIL MAP
DEPTH 3-5 FEET

NAVAL AIR STATION
MOFFETT FIELD, CALIFORNIA

INTERNATIONAL TECHNOLOGY CORPORATION

STARTING DATE: 9/3/91	DRAFT. CHCK. BY: J. HUBBARD	INITIATOR: K. BRADLEY	DRAWING NO.: 423314-D-02
DRAWN BY: D. HIGGS	ENGR. CHCK BY:J. REAGAN	PROJ. MGR.: K. BRADLEY	PROJ. NO.: 423314
DATE LAST REV.:			
DRAWN BY:			

42331402 12/22/93 11:10am STC



STARTING DATE: 9/3/91	DATE LAST REV.:	DRAFT. CHCK. BY: R. PITTS	INITIATOR: K. BRADLEY	DRAWING NO.: 423314-D-03
DRAWN BY: D. HIGGS	DRAWN BY:	ENGR. CHCK BY:J. REAGAN	PROJ. MGR.: K. BRADLEY	PROJ. NO.: 423314

42331403 12/22/93 1:07pm STC

LEGEND:

- W14-03 / U — SAMPLE LOCATION; BERYLLIUM CONCENTRATION (ppm) u – NON DETECT
- W14-01 / 5.6 — BERYLLIUM CONCENTRATIONS GREATER OR EQUAL TO 5 ppm
- W14-06 / 4 — BERYLLIUM CONCENTRATIONS GREATER THAN 3 ppm BUT LESS THAN 5 ppm

SCALE:

0 1000 2000 FEET

FIGURE 2-3

BERYLLIUM CONCENTRATION IN SOIL MAP
DEPTH 5-10 FEET

NAVAL AIR STATION
MOFFETT FIELD, CALIFORNIA

INTERNATIONAL TECHNOLOGY CORPORATION

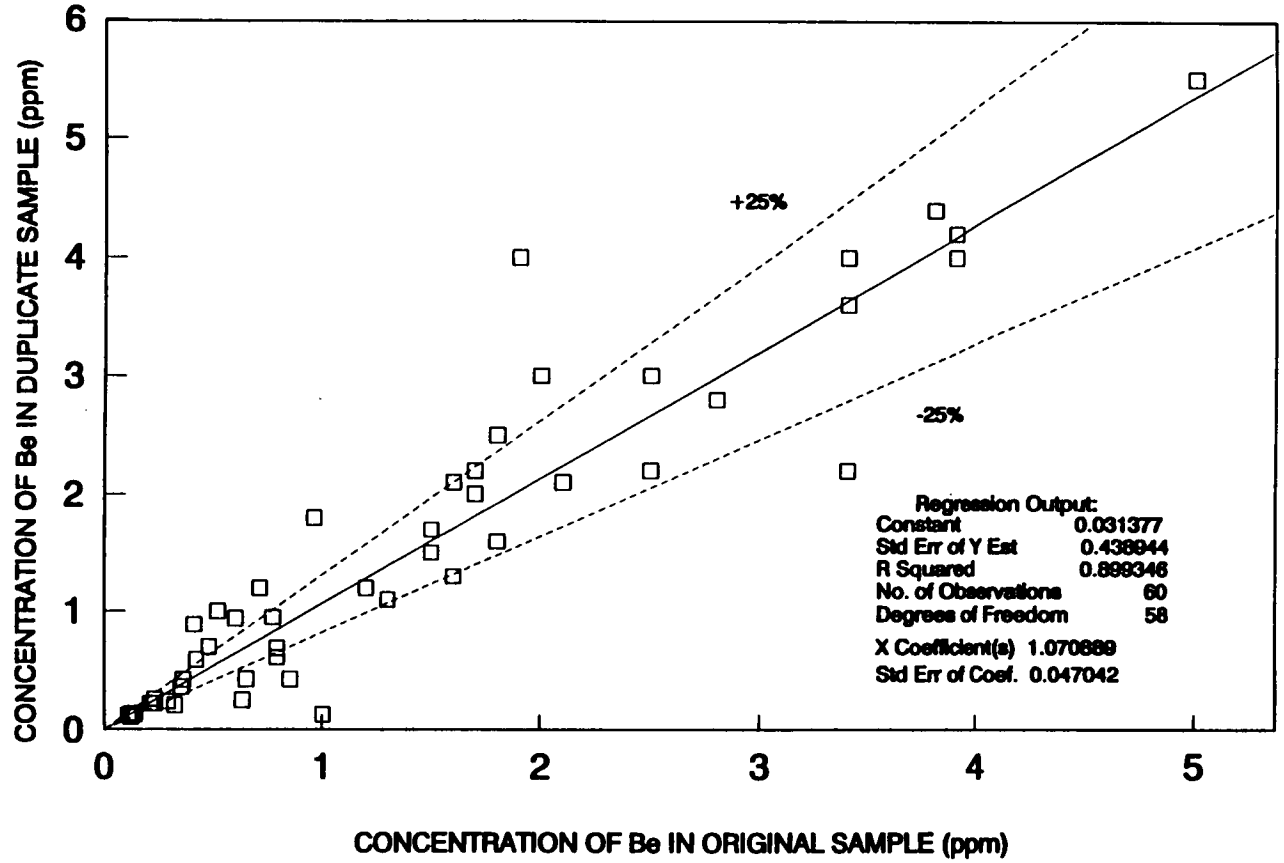


FIGURE 3-1

COMPARISON OF BERYLLIUM LEVELS IN SAMPLES AND DUPLICATES

NAVAL AIR STATION MOFFETT FIELD, CALIFORNIA

INTERNATIONAL TECHNOLOGY CORPORATION

DATE REV: 8-17-93 | DRAFT CHCK BY: | INITIATOR: J SHREMAN | PROJECT NO: 43024.6.005

ENGR CHCK BY: | PROJ MGR.: K. BRADLEY

BE_DUP.DRW

N00296.001987
MOFFETT FIELD
SSIC NO. 5090.3

TABLES

FINAL STATISTICAL ANALYSIS OF THE OCCURRENCE OF BERYLLIUM IN SOILS TECHNICAL REPORT

DATED 26 JANUARY 1994

Table 1-1

Typical Background Beryllium Contents of Soils (ppm)
Moffett Field

Soil Type	Minimum	Maximum	Mean	Standard Deviation	Source
Soils	0.1	40	6	-	Lindsay (1979)
Clay/Shale	-	-	2.13	-	Matthess and Harvey (1982)
Sand/Sandstone	-	-	0.26	-	Matthess and Harvey (1982)
Carbonate	-	-	0.18	-	Matthess and Harvey (1982)
Soils	0.5	4	-	-	Rose and others (1979)
Clay/Shale	-	-	3	-	Rose and others (1979)
Great Plains shale	-	-	3.3	1.8	U.S. Geol. Survey P.P. 1237
Montana shale	-	-	3.2	1.2	U.S. Geol. Survey P.P. 1237
Soil (World)	-	-	6	-	Vinogradov (1959)
Scotland Soils	-	-	5	-	Mitchell (1984)
Soils	-	-	6	-	Brooks (1972)
U.S. Soils	<1	15	0.92	-	U.S. Geol. Survey P.P. 1270

Summary for clay-rich soil types:

(1) Range of Background		0.1 to 40 ppm
(2) Range of Means		0.92 to 6 ppm
(3) Grand Mean		3.95 ppm
(4) Grand Std. Dev.		1.5 ppm
(5) Most Probable Range	**(mean ± 2 std. dev.)**	**0.95 to 6.95 ppm**

Table 2-1

Selected Concentrations of Trace Metals in Soils at Site 3 Moffett Field (All Concentrations in ppm)

Site	Location	Northing	Easting	Depth (ft)	Aluminum	Beryllium	Chromium	Copper	Zinc
003	SB03-01	339670	1553790	1 - 3	16200	3.8	61.2	31.7	55.2
003	SB03-01	339670	1553790	3 - 5	17100	4.0	61.7	29.7	55.8
003	SB03-01	339670	1553790	5 - 10	16500	4.4	53.9	37.1	73.3
003	SB03-01-P1	341196	1552852	1 - 3	15400	3.4	39.2	29.4	54.4
003	SB03-01-P1	341196	1552852	3 - 5	15500	2.7	46.7	22.5	48.1
003	SB03-02	339690	1553580	3 - 5	15000	3.8	60.7	24.7	48.3
003	SB03-02	339690	1553580	5 - 10	22000	5.3	73.3	35.0	66.6
003	SB03-02-P1	340988	1552770	1 - 3	37200	6.5	153	79.8	316
003	SB03-03	339815	1553440	1 - 3	22600	4.3	72.7	28.7	57.1
003	SB03-03	339815	1553440	3 - 5	17000	4.1	59.0	32.6	70.6
003	SB03-03	339815	1553440	5 - 10	19400	5.0	64.2	43.8	80.1
003	SB03-03-P1	340776	1552723	1 - 3	18000	2.9	103	63.8	359
003	SB03-04			1 - 3	29000	4.4	86.2	38.2	79.1
003	SB03-04			3 - 5	22700	4.4	74.8	37	76.3
003	SB03-05			1 - 3	10700	1.6	80.7	39.3	257
003	SB03-06			1 - 3	14200	1.68	64.3	37.9	124
003	SB03-07			1 - 3	20700	2.3	73	41.7	93.2
003	SB03-07			3 - 5	17700	2	73	42.8	123
003	SB03-08			1 - 3	18400	.43	65	38.1	74.8
003	SB03-09			1 - 3	20000	.48	67.3	34.5	91.5
003	W03-12	341114.2	1552411	1 - 3	15000	1.8	47.2	29.3	49.1
003	W03-12	341114.2	1552411	3 - 5	15100	1.6	39.6	40.9	73.4
003	W03-12	341114.2	1552411	5 - 10	14600	1.9	49	24.8	49.8

Table 2-1

(Page 2 of 2)

Site	Location	Northing	Easting	Depth (ft)	Aluminum	Beryllium	Chromium	Copper	Zinc
003	W03-13	340320.3	52252.2	1 - 3	13200	.11	41	54.4	74.9
003	W03-13	340320.3	52252.2	3 - 5	14300	.13	48.3	41.3	67.7
003	W03-13	340320.3	52252.2	5 - 10	16300	.13	56.8	46.1	65.8
003	W03-14	339665.7	52414.4	1 - 3	25300	1.5	74.9	42.1	73.3
003	W03-14	339665.7	52414.4	3 - 5	22800	1.2	66.6	36.9	61.4
003	W03-14	399665.7	52414.4	5 - 10	23900	1.2	70.2	35.9	64.8
003	W03-15	340303.5	1552603	1 - 3	9200	.8	66.9	33.5	72.3
003	W03-15	340303.5	1552603	3 - 5	17400	1.3	60.7	28.2	62.1
003	W03-15	340303.5	1552603	5 - 10	19800	2.03	64.8	45.9	89.8
003	W03-16	340925.4	52823.9	1 - 3	15000	2.1	46.4	33	80.7
003	W03-16	340925.4	52823.9	3 - 5	19300	2.7	56.5	29.8	59.3
003	W03-19	339792.7	1972.81	1 - 3	19900	0.53	63.0	25.5	53.0
003	W03-19	339792.7	1972.81	3 - 5	16200	0.50	53.8	27.5	49.2
003	W03-19	339792.7	1972.81	5 - 10	19600	0.34	70.6	37.0	63.7
003	W03-20	339867.3	1552379.7	3 - 5	19500	0.58	65.7	32.7	59.5
003	W03-20	339867.3	1552379.7	5 - 10	21200	0.33	64.3	92.0	68.7
003	W03-21	339709.84	1552577.67	1 - 3	25600	0.99	74.2	37.8	66.8
003	W03-21	339709.84	1552577.67	3 - 5	15000	0.50	52.9	22.2	44.0
003	W03-21	339709.84	1552577.67	5 - 10	17500	0.51	56.0	34.0	60.1
003	W03-22	340923.8	54609.5	1 - 3	11000	.55	33.5	76.8	163
003	W03-22	340923.8	54609.5	3 - 5	10200	.38	35.4	34.5	53.6
003	W03-22	340923.8	54609.5	5 - 10	7350	2.6	38.2	53.8	92.2
003	W03-23	341149.5	1552892.9	1 - 3	16800	1.8	47.7	48.7	59.8
003	W03-23	341149.5	1552892.9	3 - 5	17000	1.9	53.7	32.9	61.9
003	W03-23	341149.5	1552892.9	5 - 10	13800	1.8	50.4	29.6	56
003	W03-24	340332.7	1552262.22	1 - 3	19400	0.76	68.6	34.2	62.2
003	W03-24	340332.7	1552262.22	3 - 5	19400	0.38	69.8	34.9	60.7
003	W03-24	340332.7	1552262.22	5 - 10	23100	0.63	72.5	50.4	84.8

Table 2-2

Selected Concentrations of Trace Metals in Soils at Site 4 Moffett Field (All Concentrations in ppm)

Site	Location	Northing	Easting	Depth (ft)	Aluminum	Beryllium	Chromium	Copper	Zinc
004	SB04-01	338660	1552340	1 - 3	19000	0.39	62.6	32.3	56.5
004	SB04-01	338660	1552340	3 - 5	15600	0.27	44.1	31.3	57.4
004	SB04-01	338660	1552340	5 - 10	17100	0.23	43.1	39.5	60.7
004	SB04-02	338570	1552375	1 - 3	20800	0.67	60.0	37.3	65.8
004	SB04-02	338570	1552375	3 - 5	15600	0.42	44.8	54.4	61.2
004	SB04-02	338570	1552375	5 - 10	18300	0.58	56.1	39.9	64.7
004	SB04-03	338570	1552320	1 - 3	7400	.27	75.7	75.1	72.0
004	SB04-03	338570	1552320	3 - 5	6900	.35	74.9	66.2	70.4
004	SB04-04	338640	1552300	1 - 3	14500	0.25	52.7	30.1	51.6
004	SB04-04	338640	1552300	3 - 5	20300	0.25	67.1	61.4	86.7
004	SB04-04	338640	1552300	5 - 10	16800	0.23	59.1	39.3	52.5
004	SB04-04X	338670	1552280	1 - 3	16800	0.59	58.6	45.2	63.7
004	SB04-04X	338670	1552280	3 - 5	32500	1.1	86.7	44.3	79.0
004	SB04-04X	338670	1552280	5 - 10	21500	0.70	70.9	31.9	61.3
004	W04-07	339015.3	1552299.7	1 - 3	8900	1.3	60.4	60.5	70.4
004	W04-07	339015.3	1552299.7	3 - 5	8600	0.84	60.4	55.5	67.5
004	W04-07	339015.3	1552299.7	5 - 10	19400	0.85	63.0	44.9	61.6
004	W04-08	338989.5	1552975.3	1 - 3	0600	1.6	66.3	41.1	57.9
004	W04-08	338989.5	1552975.3	3 - 5	2400	1.7	71.2	33.4	57.9
004	W04-08	338989.5	1552975.3	5 - 10	14900	1.2	56.8	32.3	55.4
004	W04-09	339427.4	1552031.7	1 - 3	4500	0.70	70.9	58.4	85.2
004	W04-09	339427.4	1552031.7	3 - 5	8700	1.2	81.7	38.2	73.6
004	W04-09	339427.4	1552031.7	5 - 10	21400	0.69	63.6	40.5	86.1
004	W04-11	338992.85	1552740.8	1 - 3	6300	2.1	69.4	43.4	60.2
004	W04-11	338992.85	1552740.8	3 - 5	5600	1.3	50.4	30.0	50.9
004	W04-11	338992.85	1552740.8	5 - 10	16700	1.8	63.9	30.9	45.5

Table 2-2

(Page 2 of 2)

Site	Location	Northing	Easting	Depth	Aluminum	Beryllium	Chromium	Copper	Zinc
004	W04-11-P1	339000.2	1552963.7	1 - 3	22200	1.8	71.4	41.2	66.3
004	W04-11-P1	339000.2	1552963.7	3 - 5	18900	2.3	61.3	43.5	87.2
004	W04-11-P1	339000.2	1552963.7	5 - 10	19500	2.2	63.8	58.3	92.8
004	W04-12	339049.24	1551866.92	1 - 3	24600	1.5	68.6	38.0	61.0
004	W04-12	339049.24	1551866.92	3 - 5	14400	0.96	48.6	96.0	44.8
004	W04-12	339049.24	1551866.92	5 - 10	17000	1.3	61.4	57.9	51.6
004	W04-13	339021.97	1552402.57	1 - 3	30900	1.6	79.4	33.9	65.7
004	W04-13	339021.97	1552402.57	3 - 5	18700	1.2	54.2	25.9	47.3
004	W04-13	339021.97	1552402.57	5 - 10	16400	1.2	54.3	27.1	46.6
004	W04-15	339200.21	1552406.47	3 - 5	0500	2.1	59.3	40.3	70.2
004	W04-15	339200.21	1552406.47	5 - 10	19500	2.5	60.2	39.4	69.3
004	4-16	338808.72	1552608.81	1 - 3	25600	0.43	72.0	52.8	67.9
004	W04-16	338808.72	1552608.81	3 - 5	22400	0.40	67.4	44.5	68.4
004	W04-16	338808.72	1552608.81	5 - 10	19200	0.33	60.5	39.2	71.0

Table 2-3

Selected Concentrations of Trace Metals in Soils at Site 5 Moffett Field (All Concentrations in ppm)

Site	Location	Northing	Easting	Depth (ft)	Aluminum	Beryllium	Chromium	Copper	Zinc
005	FP05-04	336682.34	1553149.86	1 - 3	28400	1.2	84.1	88.5	91.2
005	FP05-04	336682.34	1553149.86	5 - 10	21000	0.92	68.1	40.0	73.0
005	FP05-06	336494.58	1553258.6	1 - 3	28400	3.9	83.5	55.0	71.5
005	FP05-06	336494.58	1553258.6	3 - 5	18700	2.9	67.9	43.0	63.7
005	FP05-06	336494.58	1553258.6	5 - 10	18600	2.8	69.0	33.8	75.5
005	P05-03	336652	1553370	1 - 3	26100	1.2	75.3	47.5	73.3
005	P05-03	336652	1553370	3 - 5	16400	0.84	58.5	32.4	49.5
005	P05-03	336652	1553370	5 - 10	18500	0.76	55.2	33.5	61.7
005	P05-06	336553	1553126	3 - 5	17900	1.2	49.4	33.5	56.4
005	P05-06	336553	1553126	5 - 10	21900	1.3	67.0	88.5	85.7
005	SB05-01	338890	1553230	1 - 3	18500	4.0	65.7	44.1	61.3
005	SB05-01	338890	1553230	3 - 5	16500	3.8	58.1	31.7	54.8
005	SB05-01	338890	1553230	5 - 10	11200	3.0	34.5	20.8	41.0
005	SB05-02	338775	1553255	1 - 3	16400	1.9	54.3	31.0	47.4
005	SB05-02	338775	1553255	3 - 5	16900	3.0	56.2	59.1	49.2
005	SB05-02	338775	1553255	5 - 10	13000	3.0	44.4	42.3	46.2
005	SB05-03	338455	1553300	1 - 3	22400	0.23	70.1	46.3	71.4
005	SB05-03	338455	1553300	3 - 5	17500	0.22	51.3	63.8	51.7
005	SB05-03	338455	1553300	5 - 10	21000	0.24	69.4	40.8	58.3
005	SB05-04	338370	1553320	1 - 3	28300	0.25	88.5	43.6	66.0
005	SB05-04	338370	1553320	3 - 5	18300	0.22	80.6	22.5	48.9
005	SB05-04	338370	1553320	5 - 10	19500	0.23	66.7	30.1	60.9
005	SB05-05	338265	1553425	1 - 3	21700	0.98	65.3	33.4	59.7
005	SB05-05	338265	1553425	3 - 5	19800	0.75	64.9	30.6	60.1
005	SB05-05	338265	1553425	5 - 10	16400	1.7	3.7	9.8	8.4
005	SB05-06	338230.27	1553450.72	3 - 5	24900	0.37	72.4	44.6	67.0
005	SB05-06	338230.27	1553450.72	5 - 10	23500	0.61	75.3	49.3	69.6

Table 2-3

Site	Location	Northing	Easting	Depth (ft)	Aluminum	Beryllium	Chromium	Copper	Zinc
005	SB05-07	338210	1553490	1 - 3	28100	1.4	86.9	42.2	74.1
005	SB05-07	338210	1553490	3 - 5	19900	0.85	67.4	36.9	54.6
005	SB05-08	338170	1553400	3 - 5	22200	0.93	66.8	39.7	66.8
005	SB05-08	338170	1553400	5 - 10	15400	0.46	27.8	31.1	58.4
005	SB05-09	338135	1553430	1 - 3	20300	1.1	62.2	29.8	54.6
005	SB05-09	338135	1553430	3 - 5	22200	1.2	64.5	41.1	60.8
005	SB05-09	338135	1553430	5 - 10	28500	2.0	97.5	63.0	101
005	B05-10	338110	1553470	3 - 5	25700	1.6	82.6	45.2	76.9
005	B05-10	338110	1553470	5 - 10	18200	1.3	65.9	38.3	61.7
005	SB05-11	338084.41	1553344.15	1 - 3	28900	2.2	81.3	90.0	83.4
005	SB05-11	338084.41	1553344.15	3 - 5	21800	1.5	45.3	26.9	55.7
005	SB05-11	338084.41	1553344.15	5 - 10	14600	1.0	46.1	38.7	44.2
005	SB05-12	338040	1553400	1 - 3	28000	2.2	85.7	48.5	73.8
005	SB05-12	338040	1553400	3 - 5	20900	1.4	73.5	33.6	55.9
005	SB05-12	338040	1553400	5 - 10	21700	1.8	74.0	47.9	66.0
006	SB05-13	338055	1553450	1 - 3	24600	1.5	74.6	42.1	72.7
005	SB05-13	338055	1553450	3 - 5	24900	1.5	76.4	43.5	75.5
005	SB05-13	338055	1553450	5 - 10	19700	1.6	68.1	42.1	71.5
005	SB05-20	337203.58	1553502.07	3 - 5	28800	0.35	82.2	42.4	71.0
005	SB05-20	337203.58	1553502.07	5 - 10	23600	0.64	73.4	42.0	75.3
005	SB05-20	337203.58	1553502.07	> 10	26100	0.27	47.0	30.8	49.1
005	SB05-21	337210	1553470	3 - 5	36200	0.23	112	87.5	54.4
005	SB05-21	337210	1553470	5 - 10	26000	0.62	77.6	45.7	86.6
005	SB05-21	337210	1553470	> 10	22300	0.48	64.7	43.8	81.2
005	SB05-22	337170	1553420	1 - 3	27700	3.1	78.1	55.3	69.1
005	SB05-22	337170	1553420	3 - 5	25500	3.0	78.2	76.5	107
005	SB05-22	337170	1553420	> 10	19500	2.2	58.5	36.5	60.0

Table 2-3

Site	Location	Northing	Easting	Depth (ft)	Aluminum	Beryllium	Chromium	Copper	Zinc
005	SB05-23	337165	1553480	3 - 5	31500	0.69	87.2	45.1	73.8
005	SB05-23	337165	1553480	5 - 10	24800	0.24	78.9	49.8	70.0
005	SB05-23	337165	1553480	> 10	14600	0.25	45.5	27.1	46.2
005	SB05-24	336910	1553550	3 - 5	17100	1.6	57.4	29.3	48.5
005	SB05-24	336910	1553550	5 - 10	21600	2.0	70.7	44.3	72.6
005	SB05-25	336865.7	1553546.11	1 - 3	28100	2.1	86.0	46.7	74.5
005	SB05-25	336865.7	1553546.11	3 - 5	18700	1.6	64.0	34.1	59.8
005	SB05-25	336865.7	1553546.11	5 - 10	19100	1.8	70.2	44.7	68.8
005	SB05-25X	336868	1553558	1 - 3	24900	1.9	72.0	31.2	58.2
005	SB05-25X	336868	1553558	3 - 5	19000	1.8	60.7	50.2	64.5
005	SB05-25X	336868	1553558	5 - 10	23000	2.2	63.2	51.7	82.2
005	SB05-26	336927.54	1553375.48	1 - 3	28100	3.3	80.7	101	98.7
005	SB05-26	336927.54	1553375.48	3 - 5	20600	2.3	60.4	114	63.7
005	SB05-26	336927.54	1553375.48	> 10	19100	2.2	55.0	41.8	61.7
005	SB05-27	337713.84	1553493.96	1 - 3	21200	2.9	70.3	47.7	72.5
005	SB05-27	337713.84	1553493.96	3 - 5	22300	3.5	75.5	92.9	74.1
005	SB05-27	337713.84	1553493.96	5 - 10	20700	3.7	73.4	66.2	82.4
005	SB05-30	337706.66	1553492.82	1 - 3	25300	0.79	79.7	42.4	75.7
005	SB05-30	337706.66	1553492.82	3 - 5	18800	0.41	63.6	36.2	68.9
005	SB05-30	337706.66	1553492.82	5 - 10	18000	0.31	63.5	36.0	64.5
005	SB05-31	337718.8	1553646.99	1 - 3	23100	1.1	76.2	40.8	78.7
005	SB05-31	337718.8	1553646.99	3 - 5	15500	0.98	43.5	33.9	59.0
005	SB05-31	337718.8	1553646.99	5 - 10	16200	0.82	58.9	29.3	58.3
005	SB05-32	338183.26	1553685.87	1 - 3	24300	1.5	74.2	35.7	65.7
005	SB05-32	338183.26	1553685.87	3 - 5	17300	1.2	56.0	25.2	47.5
005	SB05-32	338183.26	1553685.87	5 - 10	16100	0.89	52.5	30.3	55.3
005	SB08	338130	1553495	3	22800	1.1	60.8	65.1	79.7
005	SB08	338130	1553495	5	26800	1.2	80.6	55.5	91.1
005	SB08	338130	1553495	0	20900	1.3	63.6	47.8	70.9

Table 2-3

Site	Location	Northing	Easting	Depth (ft)	Aluminum	Beryllium	Chromium	Copper	Zinc
005	W05-04	338498.7	1553744.2	1 - 3	20300	2.1	66.2	35.6	66.7
005	W05-04	338498.7	1553744.2	3 - 5	21600	2.3	70.6	36.1	63.9
005	W05-04	338498.7	1553744.2	5 - 10	19000	2.4	64.1	40.7	76
005	W05-05	338477.9	1553704.9	1 - 3	22600	2.1	68.2	68.2	69.2
005	W05-05	338477.9	1553704.9	3 - 5	18500	1.8	60.2	48.5	61.3
005	W05-05	338477.9	1553704.9	5 - 10	18200	1.8	59.8	30.5	54.8
005	W05-06	337751.8	1553628.1	1 - 3	35100	1.4	98.6	49.9	79.9
005	W05-06	337751.8	1553628.1	3 - 5	19500	.58	64.9	31.8	113
005	W05-06	337751.8	1553628.1	5 - 10	16500	.77	62.8	49.3	78.8
005	W05-07	336916.8	1553377.6	1 - 3	23500	3.9	74.6	74.4	130
005	W05-07	336916.8	1553377.6	3 - 5	24600	3.8	77.4	57.3	85.3
005	W05-07	336916.8	1553377.6	5 - 10	18700	3.4	60.9	36.1	62.7
005	W05-08	337193.8	1553499.5	1 - 3	35300	.74	197	66.5	50.1
005	W05-08	337193.8	1553499.5	3 - 5	21500	1	67.7	35.5	64.5
005	W05-08	337193.8	1553499.5	5 - 10	22800	.84	74.2	31.7	56.5
005	W05-09	336107.9	1553067.7	1 - 3	26300	.52	75.7	44.1	81.1
005	W05-09	336107.9	1553067.7	3 - 5	23400	.31	80.5	43.3	87.6
005	W05-09	336107.9	1553067.7	5 - 10	14600	.32	40.2	71.1	71.9
005	W05-10	337143.2	1553410.7	1 - 3	15200	2.7	52.7	33.7	55.9
005	W05-10	337143.2	1553410.7	3 - 5	10400	.98	55	29.2	46.2
005	W05-10	337143.2	1553410.7	5 - 10	17900	1.9	59.3	32.3	58.4
005	W05-11	337462.23	1553483.53	1 - 3	26900	0.69	84.5	97.8	74.0
005	W05-11	337462.23	1553483.53	3 - 5	24600	0.63	81.2	51.6	71.4
005	W05-11	337462.23	1553483.53	5 - 10	18800	0.67	66.9	37.8	58.8
005	W05-14	338214.1	1553576.2	1 - 3	17600	2.4	55.7	45	64
005	W05-14	338214.1	1553576.2	3 - 5	21500	2.8	64.9	36.4	66.4
005	W05-14	338214.1	1553576.2	5 - 10	19400	2.6	66.1	34.8	61.3

Table 2-3

Site	Location	Northing	Easting	Depth (ft)	Aluminum	Beryllium	Chromium	Copper	Zinc
005	W05-15	337958.3	1553451.5	1 - 3	26700	5.8	85	77.5	188
005	W05-15	337958.3	1553451.5	3 - 5	20400	4.8	65.9	42.7	74.3
005	W05-15	337958.3	1553451.5	5 - 10	25300	5.7	86.8	47.1	78.4
005	W05-16	336630.8	1553269.6	1 - 3	27800	5.8	83.5	47.2	75.8
005	W05-16	336630.8	1553269.6	3 - 5	23000	4.9	72.7	50.6	83.7
005	W05-16	336630.8	1553269.6	5 - 10	17400	4.4	60.9	34.1	64.1
005	W05-17	336692.9	1553136.6	1 - 3	20800	2.9	63.8	37.1	77.7
005	W05-17	336692.9	1553136.6	3 - 5	28800	3.2	81.8	42.7	69.8
005	W05-17	336692.9	1553136.6	5 - 10	27600	3.4	79.8	40.9	67.6
005	W05-18	336525.1	1553246.1	1 - 3	27900	3.1	78.9	39.3	62.6
005	W05-18	336525.1	1553246.1	3 - 5	18400	2	57.7	28.6	45.6
005	W05-18	336525.1	1553246.1	5 - 10	16900	2	61	31	57.1
005	W05-19	336583	1553093.2	1 - 3	31600	1.3	88.6	54.8	82.3
005	W05-19	336583	1553093.2	3 - 5	32200	1.2	96.8	41.5	73.4
005	W05-19	336583	1553093.2	5 - 10	13900	.64	49.2	21.7	43.9
005	W05-21	338450.7	1553309.2	1 - 3	21400	0.73	69.5	41.9	61.3
005	W05-21	338450.7	1553309.2	3 - 5	16000	0.45	59.5	28.3	50.3
005	W05-21	338450.7	1553309.2	5 - 10	17100	0.53	61.4	38.2	58.5
005	W05-21	338450.7	1553309.2	1 - 3	27700	0.71	88.2	42.2	71.9
005	W05-21	338450.7	1553309.2	3 - 5	27000	0.54	87.2	44.1	70.5
005	W05-21	338450.7	1553309.2	5 - 10	13000	0.23	36.4	15.0	34.8
005	W05-25	339046.26	1553229.4	1 - 3	20200	1.2	66.5	36.0	54.5
005	W05-25	339046.26	1553229.4	3 - 5	20100	1.4	57.8	31.5	55.1
005	W05-25	339046.26	1553229.4	5 - 10	17100	1.2	56.3	27.2	53.7
005	W05-27	338369.68	1553462.6	1 - 3	20600	0.65	64.4	36.8	63.8
005	W05-27	338369.68	1553462.6	3 - 5	23600	0.48	66.1	35.8	61.6
005	W05-27	338369.68	1553462.6	5 - 10	12200	0.48	34.8	18.8	38.0

Table 2-4

Selected Concentrations of Trace Metals in Soils at Site 6 Moffett Field (All Concentrations in ppm)

Site	Location	Northing	Easting	Depth (ft)	Aluminum	Beryllium	Chromium	Copper	Zinc
006	W06-08	338008.54	1552975.14	1 - 3	19700	0.41	56.1	32.9	63.4
006	W06-08	338008.54	1552975.14	5 - 10	17400	0.63	63.7	31.0	63.7
006	W06-09	338045.98	1553072.14	1 - 3	21300	0.60	68.0	33.9	54.5
006	W06-09	338045.98	1553072.14	3 - 5	20800	0.69	67.6	30.1	50.9
006	W06-09	338045.98	1553072.14	5 - 10	16300	0.46	53.2	22.9	47.7
006	W06-10	337717.63	1553021.55	1 - 3	22000	0.84	64.6	41.3	64.6
006	W06-10	337717.63	1553021.55	3 - 5	15200	0.53	74.4	22.5	44.4
006	W06-10	337717.63	1553021.55	5 - 10	18400	0.60	57.6	31.0	53.9

Table 2-5

Selected Concentrations of Trace Metals in Soils at Site 7 Moffett Field (All Concentrations in ppm)

Site	Location	Northing	Easting	Depth (ft)	Aluminum	Beryllium	Chromium	Copper	Zinc
007	SB07-01			1 - 3	19900	0.11	62.2	45.5	63.9
007	SB07-01			3 - 5	16100	0.13	55.7	38.3	60.8
007	SB07-01			5 - 10	14000	0.14	55.0	41.2	51.4
007	SB07-02			1 - 3	16400	0.14	58.4	20500	8660
007	SB07-02			3 - 5	15400	0.13	48.0	72.6	72.2
007	SB07-02			5 - 10	12300	0.12	48.1	42.9	53.8
007	SB07-03			3 - 5	15100	0.11	55.0	45.1	57.6
007	SB07-03			5 - 10	16300	0.13	52.7	36.2	56.9
007	W07-16	336745.1	1551965.7	1 - 3	9330	0.12	28.6	21.9	44.1
007	W07-16	336745.1	1551965.7	3 - 5	12200	0.13	40.9	19.8	47.0
007	W07-16	336745.1	1551965.7	5 - 10	14500	0.12	50.6	34.9	56.6
007	W07-17	38404.47	1552398.36	1 - 3	27300	0.52	73.5	59.1	94.0
007	W07-17	38404.47	1552398.36	3 - 5	32600	1.1	88.4	96.4	97.1
007	W07-17	38404.47	1552398.36	5 - 10	17300	0.60	62.2	56.1	72.4
007	W07-18	336879.2	1552435.3	1 - 3	10100	1.4	37.2	43.5	57.6
007	W07-18	336879.2	1552435.3	3 - 5	21400	2.3	72.0	41.3	74.1
007	W07-18	336879.2	1552435.3	5 - 10	15500	1.8	55.4	32.6	66.8
007	W07-19	337991.9	1552000.7	1 - 3	8130	0.97	28.9	78.8	86.7
007	W07-19	337991.9	1552000.7	3 - 5	17400	1.9	73.9	44.0	56.3
007	W07-19	337991.9	1552000.7	5 - 10	21900	2.0	63.6	50.3	66.7
007	W07-20	337581.6	1552681.1	1 - 3	15200	3.0	52.4	43.4	58.8
007	W07-20	337581.6	1552681.1	3 - 5	18400	3.3	60.9	32.5	60.2
007	W07-20	337581.6	1552681.1	5 - 10	16600	3.4	52.1	31.4	52.6
007	W07-21	337678.1	1551472.9	1 - 3	23700	2.1	59.0	36.9	62.9
007	W07-21	337678.1	1551472.9	3 - 5	18300	1.8	47.4	28.1	49.6
007	W07-21	337678.1	1551472.9	5 - 10	13200	1.7	44.2	28.0	49.5

Table 2-6

Selected Concentrations of Trace Metals in Soils at Site 8 Moffett Field (All Concentrations in ppm)

Site	Location	Northing	Easting	Depth (ft)	Aluminum	Beryllium	Chromium	Copper	Zinc
008	SB08-01			1 - 3	12300	0.13	37.0	21600	8710
008	SB08-01			3 - 5	13400	0.12	41.9	10000	4120
008	SB08-02			1 - 3	14200	0.13	55.8	45.7	60.8
008	SB08-02			3 - 5	24800	0.12	69.6	52.5	76.9
008	SB08-03			1 - 3	17500	0.14	50.4	47.7	56.6
008	SB08-03			3 - 5	25600	0.15	73.0	50.5	84.0
008	SB08-04			1 - 3	15900	0.11	44.9	46.1	53.8
008	SB08-04			3 - 5	27700	0.14	78.3	50.4	79.1
008	SB08-05			1 - 3	28700	0.14	82.6	45.8	82.3
008	SB08-05			3 - 5	17400	0.15	53.7	70.3	88.2
008	SB08-06			1 - 3	14100	0.11	59.8	40.8	56.4
008	SB08-06			3 - 5	27600	0.15	80.8	46.1	78.3
008	SB08-07			1 - 3	15400	0.13	42.0	41.0	52.2
008	SB08-07			3 - 5	27400	0.14	76.6	43.2	78.3
008	SB08-08	338890	1547870	1 - 3	28800	0.14	81.7	53.9	85.9
008	SB08-08	338890	1547870	3 - 5	19100	0.14	51.3	32.8	58.9
008	SB08-09			1 - 3	20000	0.13	68.2	93.4	80.0
008	SB08-09			3 - 5	25300	0.13	72.5	79.1	84.2
008	SB08-10			1 - 3	16200	0.12	41.5	23.0	44.6
008	SB08-10			3 - 5	22700	0.13	64.8	44.9	77.9
008	SB08-11			1 - 3	16300	0.12	45.0	32.5	55.8
008	SB08-11			3 - 5	21800	0.13	57.3	82.0	91.5
008	SB08-12			1 - 3	18500	0.13	63.1	55.7	72.5
008	SB08-12			3 - 5	25900	0.13	76.1	44.2	82.7

Table 2-6

(Page 2 of 2)

Site	Location	Northing	Easting	Depth (ft)	Aluminum	Beryllium	Chromium	Copper	Zinc
008	SB08-13			1 - 3	15200	0.11	38.8	55.1	74.5
008	SB08-13			3 - 5	21400	0.14	57.4	56.1	92.3
008	W08-02	338964.9	1547887	1 - 3	16300	2.4	49.5	45.9	57.8
008	W08-02	338964.9	1547887	3 - 5	28900	3.6	82.1	41.0	75.3
008	W08-04	338701.9	1547853.3	1 - 3	18500	3.6	67.6	36.0	59.2
008	W08-04	338701.9	1547853.3	3 - 5	31600	4.8	82.4	41.5	95.0
008	W08-04	338701.9	1547853.3	5 - 10	22000	3.9	68.1	38.2	64.5
008	W08-05	39162.4	1547850.4	1 - 3	17500	3.3	50.7	28.5	55.3
008	W08-05	39162.4	1547850.4	3 - 5	25100	4.2	72.2	39.8	74.9
008	W08-05	39162.4	1547850.4	5 - 10	20600	3.9	69.3	42.1	73.6
008	W08-06	38986.4	1547845.8	1 - 3	19000	3.1	66.5	39.8	62.3
008	W08-06	38986.4	1547845.8	3 - 5	24000	3.6	66.4	52.5	67.4
008	W08-06	38986.4	1547845.8	5 - 10	24500	3.4	80.7	44.0	85.1
008	W08-08	339690.55		1 - 3	26400	2.8	63.5	43.0	66.0
008	W08-08	339690.55		3 - 5	28100	3.4	75.6	41.4	74.2
008	W08-08	339690.55		5 - 10	15500	1.9	55.9	29.8	46.2
008	W08-10	339031.85	1547700.15	1 - 3	27800	2.6	69.6	46.5	72.1
008	W08-10	339031.85	1547700.15	3 - 5	18000	2.4	45.5	39.7	54.3
008	W08-10	339031.85	1547700.15	5 - 10	22600	2.8	73.1	42.1	74.0
008	W08-11	338711.99	1547850.94	1 - 3	31300	3.9	81.7	48.9	81.7
008	W08-11	338711.99	1547850.94	3 - 5	34500	4.2	85.4	45.7	84.8
008	W08-11	338711.99	1547850.94	5 - 10	26700	3.7	74.7	42.4	76.5
008	W08-12	339063.5	1548030.98	1 - 3	18300	1.5	46.9	31.3	56.8
008	W08-12	339063.5	1548030.98	3 - 5	24200	2.7	67.0	50.5	73.9
008	W08-12	339063.5	1548030.98	5 - 10	20200	2.5	60.6	46.0	71.6

Table 2-7

Selected Concentrations of Trace Metals in Soils at Site 9 Moffett Field (All Concentrations in ppm)

Site	Location	Northing	Easting	Depth (ft)	Aluminum	Beryllium	Chromium	Copper	Zinc
009	FP09-01	336406.46	1548458.23	1 - 3	14400	0.26	64.7	103	201
009	FP09-01	336406.46	1548458.23	3 - 5	14800	0.24	38.4	82.7	43.3
009	FP09-01	336406.46	1548458.23	5 - 10	15700	0.42	47.9	41.9	53.7
009	FP09-01	336406.46	1548458.23	> 10	12900	0.55	41.7	113	81.8
009	FP09-02	336284.62	1548057.5	1 - 3	18200	2.0	93.2	26.5	55.5
009	FP09-02	336284.62	1548057.5	3 - 5	19700	2.5	49.5	69.5	56.5
009	FP09-02	336284.62	1548057.5	5 - 10	16400	2.4	48.3	57.7	58.9
009	W09-03	335811.3	1548305.4	1 - 3	8640	0.23	16.2	51.9	45.6
009	W09-03	335811.3	1548305.4	3 - 5	22300	0.48	49.4	48.0	115
009	W09-03	335811.3	1548305.4	5 - 10	17900	0.56	57.1	40.9	101
009	W09-04	336979.6	1548121.6	1 - 3	31500	0.14	80.4	36.0	71.0
009	W09-04	336979.6	1548121.6	3 - 5	26200	0.13	67.0	29.5	59.4
009	W09-04	336979.6	1548121.6	5 - 10	17100	0.13	53.7	23.1	48.1
009	W09-05	336993.2	1548115.8	1 - 3	33700	0.19	87.1	54.3	109
009	W09-05	336993.2	1548115.8	3 - 5	30400	0.13	72.6	38.7	70.3
009	W09-05	336993.2	1548115.8	5 - 10	15900	0.11	67.7	36.5	55.5
009	W09-06	336389.7	1548272.7	1 - 3	22900	1	53.9	42.6	65.8
009	W09-06	336389.7	1548272.7	3 - 5	25100	1	56.0	33.1	58.8
009	W09-06	336389.7	1548272.7	5 - 10	18900	1	46.6	26.4	45.8
009	W09-07	336158.5	1548028.6	1 - 3	21200	0.14	58.7	57.4	84.5
009	W09-07	336158.5	1548028.6	3 - 5	13100	0.14	38.9	50.2	79.1
009	W09-07	336158.5	1548028.6	5 - 10	16500	0.11	44.6	31.7	49.4
009	W09-08	35608.86	1548256.7	1 - 3	21600	0.34	48.7	18.5	49.5
009	W09-08	35608.86	1548256.7	3 - 5	25300	0.24	77.8	47.8	67.1
009	W09-08	35608.86	1548256.7	5 - 10	16700	0.27	56.6	29.7	51.0

Table 2-7

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Site	Location	Northing	Easting	Depth (ft)	Aluminum	Beryllium	Chromium	Copper	Zinc
009	W09-09	36287.26	1548050.01	1 - 3	13300	0.69	41.6	26.7	59.4
009	W09-09	36287.26	1548050.01	3 - 5	25400	1.3	76.0	55.8	90.7
009	W09-09	36287.26	1548050.01	5 - 10	15000	0.67	43.4	23.9	48.1
009	W09-10	36991.89	1548308.9	1 - 3	17200	2.5	48.7	39.3	58.2
009	W09-10	36991.89	1548308.9	3 - 5	22000	2.9	57.6	44.7	68.6
009	W09-10	36991.89	1548308.9	5 - 10	12500	2.1	38.1	19.8	40.9
009	W09-11	37083.72	1548680.28	1 - 3	18300	0.58	49.2	32.0	50.6
009	W09-11	37083.72	1548680.28	3 - 5	19300	0.67	53.5	38.1	64.3
009	W09-11	37083.72	1548680.28	5 - 10	12000	0.33	38.3	42.0	87.4
009	W09-12	35365.22	1548739.42	1 - 3	24900	0.91	72.4	32900	62.8
009	W09-12	35365.22	1548739.42	3 - 5	23000	0.54	68.8	29.3	57.9
009	W09-12	35365.22	1548739.42	5 - 10	22300	0.72	73.8	34.3	67.9
009	W09-13	336152.5	1548014.9	1 - 3	22900	1	53.9	42.6	65.8
009	W09-13	336152.5	1548014.9	3 - 5	25100	1	56.0	33.1	58.8
009	W09-13	336152.5	1548014.9	5 - 10	18900	1	46.6	26.4	45.8
009	W09-14	335498.3	1548647.7	1 - 3	13100	1.2	37.5	24.1	56.2
009	W09-14	335498.3	1548647.7	3 - 5	24200	0.73	70.0	33.3	70.2
009	W09-14	335498.3	1548647.7	5 - 10	12600	0.53	40.7	23.5	59.9
009	W09-15	335826	1548606	1 - 3	12300	0.73	41.9	26.8	46.8
009	W09-15	335826	1548606	3 - 5	19300	0.22	52.2	31.8	56.1
009	W09-15	335826	1548606	5 - 10	22600	0.20	53.6	287	160
009	W09-16	35175.44	1548195.81	1 - 3	14100	.31	39.1	25.9	45.6
009	W09-16	35175.44	1548195.81	3 - 5	20100	0.71	53.6	70.9	54
009	W09-16	35175.44	1548195.81	5 - 10	15200	0.71	51.7	39.3	53
009	W09-17	35366.89	1548750.05	1 - 3	29800	0.25	76.2	53.8	59.4
009	W09-17	35366.89	1548750.05	3 - 5	25500	0.24	80.1	62.6	80.8
009	W09-17	35366.89	1548750.05	5 - 10	23600	0.23	69.3	76.1	92.2

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Site	Location	Northing	Easting	Depth (ft)	Aluminum	Beryllium	Chromium	Copper	Zinc
009	W09-18	35505.12	1548890.15	1 - 3	16900	0.22	53.6	90.0	123
009	W09-18	35505.12	1548890.15	3 - 5	13100	0.22	40.4	38.1	77.7
009	W09-18	35505.12	1548890.15	5 - 10	14700	0.21	43.5	18.8	47.8
009	W09-19	35365.71	1548255.06	1 - 3	19300	0.24	85.2	54	
009	W09-19	35365.71	1548255.06	3 - 5	20900	0.22	61	21.6	47.9
009	W09-19	35365.71	1548255.06	5 - 10	25000	0.23	72.1	35.7	63.3
009	W09-20	35861.48	1548690.1	1 - 3	17900	0.23	48.1	18.2	37.8
009	W09-20	35861.48	1548690.1	3 - 5	10100	0.19	35.2	32.2	58.5
009	W09-20	35861.48	1548690.1	5 - 10	15500	0.22	43.8	42.2	50.5
009	W09-21	35793.61	1548937.53	1 - 3	21000	0.25	58.5	44.9	58.0
009	W09-21	35793.61	1548937.53	3 - 5	34900	0.23	43.1	82.1	51.9
009	W09-21	35793.61	1548937.53	5 - 10	19700	0.34	67.1	79.7	
009	W09-22	36473.76	1548431.42	1 - 3	22300	0.25	54.7	38.8	56.2
009	W09-22	36473.76	1548431.42	3 - 5	18900	0.55	49.3	26.0	45.1
009	W09-22	36473.76	1548431.42	5 - 10	17400	0.38	54.8	26.7	49.4
009	W09-23	36186.42	1548622	1 - 3	21100	1.1	54.4	34.4	57.6
009	W09-23	36186.42	1548622	3 - 5	13200	0.7	34.8	14	38.2
009	W09-23	36186.42	1548622	5 - 10	13900	0.98	36.3	39.7	44.9
009	W09-24	37075.15	1548683.84	1 - 3	7010	0.24	37.4	30.1	70.2
009	W09-24	37075.15	1548683.84	3 - 5	18900	0.35	57.3	34.4	65.1
009	W09-24	37075.15	1548683.84	5 - 10	26600	0.57	72.2	44.1	73.5
009	W09-25	36561.06	1548008.5	1 - 3	11400	0.84	29.1	17.8	37.7
009	W09-25	36561.06	1548008.5	3 - 5	18100	0.47	47.7	24.7	51.7
009	W09-25	36561.06	1548008.5	5 - 10	14500	0.51	46.8	38.7	58.6
009	W09-26	36802.82	1548594.99	1 - 3	20700	0.64	71.7	36.8	51.9
009	W09-26	36802.82	1548594.99	3 - 5	4660	0.29	19.4	17.2	61.1
009	W09-26	36802.82	1548594.99	5 - 10	17900	0.36	53.1	25.8	48.4

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Site	Location	Northing	Easting	Depth (ft)	Aluminum	Beryllium	Chromium	Copper	Zinc
009	W09-27	336676.4	1548653.8	1 - 3	20100	0.13	57.4	43.8	58.7
009	W09-27	336676.4	1548653.8	3 - 5	25300	0.14	65.3	38.5	62.1
009	W09-27	336676.4	1548653.8	5 - 10	20700	0.12	58.0	29.5	52.6
009	W09-28	36206.41	1548712.45	1 - 3	19900	0.20	51.1	15.1	39.5
009	W09-28	36206.41	1548712.45	3 - 5	15700	0.22	26.3	56.6	88.2
009	W09-28	36206.41	1548712.45	5 - 10	18100	0.29	26.3	21.2	54.8
009	W09-29	335518.1	549108.14	1 - 3	17600	0.25	56.3	28.1	55.1
009	W09-29	335518.1	549108.14	3 - 5	16100	0.25	49.7	16.4	42.6
009	W09-29	335518.1	549108.14	5 - 10	19300	0.25	56.2	26.2	52.7
009	W09-30	35290.39	1549129.56	1 - 3	17300	0.26	52.9	19.8	50.2
009	W09-30	35290.39	1549129.56	3 - 5	18600	0.24	55.9	19.5	49.5
009	W09-30	35290.39	1549129.56	5 - 10	20200	0.25	55.7	23.7	51.9
009	W09-31	36342.59	1548599.39	1 - 3	22400	1.6	60.6	42.4	74.5
009	W09-31	36342.59	1548599.39	3 - 5	13200	0.87	44.8	20.0	41.5
009	W09-31	36342.59	1548599.39	5 - 10	15500	0.97	46.0	24.0	46.6
009	W09-33	35891.48	1548383.75	1 - 3	32500	0.26	77.5	23.8	57.5
009	W09-33	35891.48	1548383.75	3 - 5	19800	0.25	59.5	25.3	48.9
009	W09-33	35891.48	1548383.75	5 - 10	24900	0.24	63.4	26.0	88.3
009	W09-34	35938.73	1548061.5	1 - 3	26000	0.61	68.6	27.7	59.3
009	W09-34	35938.73	1548061.5	3 - 5	19400	0.30	68.5	52.9	80.9
009	W09-34	35938.73	1548061.5	5 - 10	17400	0.36	57.2	69.1	72.1
009	W09-35	35856.29	1548691.8	1 - 3	16900	0.24	46.8	22.9	38.7
009	W09-35	35856.29	1548691.8	3 - 5	16700	0.22	50.2	22.5	47.6
009	W09-35	35856.29	1548691.8	5 - 10	19600	0.22	64.1	25.2	53.2
009	W09-36	35616.35	1548454.03	1 - 3	16000	0.56	43.4	24.5	77.8
009	W09-36	35616.35	1548454.03	3 - 5	16500	0.32	50.0	32.3	63.3
009	W09-36	35616.35	1548454.03	5 - 10	12800	0.48	43.5	20.3	53.0

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Site	Location	Northing	Easting	Depth (ft)	Aluminum	Beryllium	Chromium	Copper	Zinc
009	W09-37	35249.59	1548711.82	1 - 3	35900	0.23	62.8	31.9	52.8
009	W09-37	35249.59	1548711.82	3 - 5	20000	0.24	60	22.1	52.1
009	W09-37	35249.59	1548711.82	5 - 10	16800	0.22	52.4	24.2	53.2
009	W09-38	35113.06	1548440.08	1 - 3	29500	0.26	61.2	45.9	69.1
009	W09-38	35113.06	1548440.08	3 - 5	30600	0.24	93.4	33.4	60.9
009	W09-38	35113.06	1548440.08	5 - 10	31200	0.22	82.4	35.4	64.4
009	W09-39	36569.08	1548004.59	1 - 3	16500	1.3	50.8	40.0	63.9
009	W09-39	36569.08	1548004.59	3 - 5	11500	1.1	30.8	19.4	62.5
009	W09-39	36569.08	1548004.59	5 - 10	20000	1.7	58.9	30.9	61.8
009	W09-40	35616.02	1548255.33	1 - 3	20600	0.41	51.7	28.3	54.8
009	W09-40	35616.02	1548255.33	3 - 5	22700	0.63	75.2	37.4	64.1
009	W09-40	35616.02	1548255.33	5 - 10	21400	0.48	67.0	33.2	60.3
009	W09-41	35126.96	1548434.9	1 - 3	21800	0.26	49.9	51.8	72.3
009	W09-41	35126.96	1548434.9	3 - 5	23500	0.26	53.5	83.0	74.1
009	W09-41	35126.96	1548434.9	5 - 10	18200	0.23	57.6	50.3	56.6
009	W09-42	35523.46	1549103.75	1 - 3	13900	0.25	41.9	13.3	36.5
009	W09-42	35523.46	1549103.75	3 - 5	19300	0.25	58.8	22.9	53.3
009	W09-42	35523.46	1549103.75	5 - 10	16600	0.24	51.2	24.1	42.9
009	W09-43	36761.07	1548766.55	1 - 3	19400	0.38	34.2	37.8	46.7
009	W09-43	36761.07	1548766.55	3 - 5	22500	0.32	35.0	48.9	51.4
009	W09-43	36761.07	1548766.55	5 - 10	22300	0.48	63.8	40.4	60.2

Table 2-8

Selected Concentrations of Trace Metals in Soils at Site 10 Moffett Field (All Concentrations in ppm)

Site	Location	Northing	Easting	Depth (ft)	Aluminum	Beryllium	Chromium	Copper	Zinc
010	W10-05	337187.5	1551008.7	1 - 3	24500	0.83	58.0	54.2	78.1
010	W10-05	337187.5	1551008.7	3 - 5	29300	0.93	72.5	34.4	62.8
010	W10-05	337187.5	1551008.7	5 - 10	12400	0.68	40.7	27.6	44.3
010	W10-06	334869.4	1553189.6	3 - 5	21200	1.2	38.4	61.7	67.5
010	W10-06	334869.4	1553189.6	5 - 10	2500	1.2	38.6	26.9	49.0

Table 2-9

Selected Concentrations of Trace Metals in Soils at Site 11 Moffett Field (All Concentrations in ppm)

Site	Location	Northing	Easting	Depth (ft)	Aluminum	Beryllium	Chromium	Copper	Zinc
011	GSB11-01			1 - 3	23100	0.12	79.7	56.5	95.9
011	GSB11-02			1 - 3	20800	0.12	73.0	54.2	94.0
011	GSB11-03			1 - 3	20600	0.11	72.3	48.9	79.9
011	GSB11-04			1 - 3	21800	0.12	70.7	44.5	83.2
011	GSB11-05			1 - 3	9270	0.11	35.7	33.0	70.5
011	GSB11-06			1 - 3	22000	0.12	80.6	41.7	89.2
011	GSB11-07			1 - 3	21600	0.11	74.7	37.3	67.1
011	GSB11-08			1 - 3	21100	0.13	65.2	39.0	75.7
011	GSB11-09			1 - 3	22600	0.12	79.2	46.5	81.1
011	GSB11-10			1 - 3	19600	0.12	85.8	56.5	105
011	GSB11-10			5 - 10	20900	0.16	77.3	53.5	89.1
011	GSB11-11			1 - 3	20100	0.12	79.0	46.5	92.0
011	GSB11-11			5 - 10	20500	0.14	102	57.7	117
011	GSB11-12			1 - 3	14800	0.34	58.9	36.2	81.6
011	GSB11-12			5 - 10	16700	0.15	56.3	47.9	70.4
011	GSB11-13			1 - 3	22500	0.16	84.7	82.1	109
011	GSB11-13			5 - 10	14100	0.17	47.5	36.4	63.4
011	GSB11-14			1 - 3	17100	0.11	60.4	46.1	81.9
011	GSB11-14			5 - 10	19500	0.13	87.6	49.6	72.2
011	GSB11-15			1 - 3	17400	0.11	65.1	44.4	72.0
011	GSB11-15			5 - 10	18100	0.14	68.9	53.6	82.5

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Site	Location	Northing	Easting	Depth	Aluminum	Beryllium	Chromium	Copper	Zinc
011	GSB11-16			1 - 3	15900	0.12	59.2	48.6	74.7
011	GSB11-16			5 - 10	0	0.14	44.8	43.4	60.0
011	GSB11-17			1 - 3	9830	0.13	32.8	30.8	56.6
011	GSB11-17			5 - 10	20600	0.17	73.4	56.1	90.6
011	GSB11-18			1 - 3	13000	0.11	43.7	38.8	71.2
011	GSB11-18			5 - 10	16200	0.11	50.1	38.5	86.0
011	GSB11-19			1 - 3	16900	0.14	54.6	41.9	74.6
011	GSB11-19			5 - 10	11600	0.11	38.1	31.3	52.8
011	GSB11-20			1 - 3	17700	0.11	69.6	42.3	72.5
011	SB11-01			3 - 5	20000	1.1	58.7	29.9	61.4
011	SB11-01			> 10	20800	1.4	57.0	26.8	60.9
011	SB11-02			1 - 3	28400	1.6	89.3	76.5	78.3
011	SB11-02			3 - 5	18100	1.3	63.9	43.2	58.0
011	SB11-03			1 - 3	18700	0.31	55.6	109	89.0
011	SB11-03			5 - 10	19600	0.13	65.8	37.7	64.5
011	SB11-04			1 - 3	21700	0.12	64.4	41.7	143
011	SB11-04			5 - 10	18600	0.12	62.8	46.6	110
011	SB11-05			1 - 3	17600	0.18	61.9	39.4	77.4
011	SB11-05			5 - 10	20500	0.12	66.3	36.0	90.0
011	SB11-06			1 - 3	22000	0.12	82.6	44.5	88.5
011	SB11-06			5 - 10	22200	0.14	68.1	35.9	114

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Site	Location	Northing	Easting	Depth	Aluminum	Beryllium	Chromium	Copper	Zinc
011	SB11-07			1 - 3	23600	1.4	63.2	107	94.2
011	SB11-07			5 - 10	19600	1.3	60.2	36.5	70.4
011	SB11-08			1 - 3	17900	1.5	60.3	40.2	159
011	SB11-08			5 - 10	20500	1.5	67.5	40.4	65.6
011	W11-01	341246.4	1550374.8	1 - 3	17400	4.1	68.7	48.5	77.5
011	W11-01	341246.4	1550374.8	5 - 10	21400	5.0	73.1	53.9	148
011	W11-01	341246.4	1550374.8	> 10	17500	4.1	64.7	30.4	57.3
011	W11-02	341444.3	1550241.1	1 - 3	20500	4.8	73.9	48.3	86.5
011	W11-02	341444.3	1550241.1	5 - 10	24000	5.5	82.6	51.7	108

Table 2-10

Selected Concentrations of Trace Metals in Soils at Site 12 Moffett Field (All Concentrations in ppm)

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Site	Location	Northing	Easting	Depth (ft)	Aluminum	Beryllium	Chromium	Copper	Zinc
012	SB12-01			1 - 3	23400	0.12	67.3	65.1	69.6
012	SB12-01			3 - 5	19800	0.12	62.6	37.2	57.1
012	SB12-02			1 - 3	16200	0.13	52.7	88.4	115
012	SB12-02			3 - 5	19500	0.12	63.7	6010	2590
012	SB12-02			5 - 10	11800	0.13	30.2	30.7	44.3
012	SB12-03			1 - 3	17200	0.12	49.7	58.6	76.9
012	SB12-03			3 - 5	16700	0.12	53.1	33.8	58.4
012	SB12-03			5 - 10	12100	0.11	31.7	42.1	51.9
012	SB12-04			1 - 3	12200	0.11	44.5	46.2	43.7
012	SB12-04			3 - 5	24100	0.12	71.5	45.2	66.9
012	SB12-04			5 - 10	16200	0.11	54.2	43.2	55.3
012	SB12-05			1 - 3	14000	0.11	53.3	39.5	58.3
012	SB12-05			3 - 5	14800	0.12	54.8	26.9	46.9
012	SB12-05			5 - 10	17900	0.12	58.2	37.5	60.9
012	SB12-06			1 - 3	25100	0.13	71.9	46.2	71.0
012	SB12-06			3 - 5	15100	0.13	56.7	50.0	64.5
012	SB12-06			5 - 10	17500	0.13	57.4	32.0	54.7
012	SB12-07			1 - 3	27400	0.14	78.5	85.3	75.0
012	SB12-07			3 - 5	24300	0.14	74.4	66.1	75.8
012	SB12-07			5 - 10	15000	0.13	48.8	42.9	55.0
012	SB12-08			1 - 3	31900	0.13	84.3	53.7	73.1
012	SB12-08			3 - 5	25300	0.13	78.3	50.0	76.9
012	SB12-08			5 - 10	16500	0.12	54.4	40.8	60.7
012	SB12-09			1 - 3	25600	0.14	76.7	49.5	74.5
012	SB12-09			3 - 5	15700	0.13	52.6	41.6	51.7
012	SB12-09			5 - 10	13100	0.14	48.2	38.7	47.9

Table 2-10

(Page 2 of 2)

Site	Location	Northing	Easting	Depth (ft)	Aluminum	Beryllium	Chromium	Copper	Zinc
012	SB12-10			1 - 3	22700	0.12	68.2	67.6	66.2
012	SB12-10			3 - 5	18600	0.12	64.9	48.9	66.7
012	SB12-10			5 - 10	17700	0.13	64.3	43.4	65.6
012	SB12-11			1 - 3	23600	0.13	73.9	49.0	80.1
012	SB12-11			3 - 5	20500	0.13	71.0	49.2	79.3
012	SB12-11			5 - 10	18600	0.14	61.8	53.0	77.4
012	SB12-12			1 - 3	23200	0.13	75.2	47.6	78.7
012	SB12-12			3 - 5	22300	0.12	77.0	58.5	84.3
012	SB12-12			5 - 10	13500	0.13	37.1	1180	4880
012	W12-01	338009.7	1549044.6	1 - 3	26100	2.6	70.5	37.8	69.3
012	W12-01	338009.7	1549044.6	3 - 5	21700	2.5	63.7	39.6	69.3
012	W12-01	338009.7	1549044.6	5 - 10	18100	2.1	59.3	39.8	71.8
012	W12-02	338270.3	1549017	1 - 3	20900	1.7	80.0	60.5	64.8
012	W12-02	338270.3	1549017	3 - 5	19100	1.4	75.6	59.5	86.1
012	W12-02	338270.3	1549017	5 - 10	16200	1.3	59.2	38.6	58.0
012	W12-03	338291.6	1548912.3	1 - 3	28200	2.9	82.2	51.7	97.0
012	W12-03	338291.6	1548912.3	3 - 5	166000	2.0	52.5	35.9	63.5
012	W12-03	338291.6	1548912.3	5 - 10	22000	2.6	68.5	47.6	73.5

Table 2-11

Selected Concentrations of Trace Metals in Soils at Site 13 Moffett Field (All Concentrations in ppm)

Site	Location	Northing	Easting	Depth (ft)	Aluminum	Beryllium	Chromium	Copper	Zinc
013	SB13-01			1 - 3	24800	0.13	82.2	46.5	78.3
013	SB13-01			5 - 10	19800	0.12	77.5	42.0	116
013	SB13-02			1 - 3	22500	0.12	78.9	48.6	139
013	SB13-02			5 - 10	17900	0.13	66.9	37.2	75.3
013	SB13-03			1 - 3	27900	0.13	116	55.8	198
013	SB13-03			5 - 10	23700	0.12	89.2	39.3	123
013	SB13-04			1 - 3	24900	0.11	73.8	37.3	67.0
013	SB13-04			5 - 10	18800	0.13	80.9	33.0	57.6

Table 2-12

Selected Concentrations of Trace Metals in Soils at Site 14 Moffett Field (All Concentrations in ppm)

Site	Location	Northing	Easting	Depth (ft)	Aluminum	Beryllium	Chromium	Copper	Zinc
014	SB14-01	333559.7	1550068.1	1 - 3	18000	0.23	48.5	64.7	100
014	SB14-01	333559.7	1550068.1	3 - 5	21800	0.52	64.6	28.2	63.9
014	SB14-01	333559.7	1550068.1	5 - 10	19200	0.41	64.7	47.0	76.4
014	SB14-02	333605.7	1550004.6	1 - 3	15100	0.68	39.1	17.9	45.6
014	SB14-02	333605.7	1550004.6	3 - 5	16900	0.46	52.9	28.7	121
014	SB14-02	333605.7	1550004.6	5 - 10	20100	0.79	64.5	40.0	67.8
014	SB14-03	333691.7	1549917.6	1 - 3	18200	4.3	47.4	71.0	63.9
014	SB14-03	333691.7	1549917.6	3 - 5	23400	5.5	64.9	80.1	78.5
014	SB14-03	333691.7	1549917.6	5 - 10	12200	2.6	44.3	31.0	49.2
014	W14-01	333688.5	1549923.9	1 - 3	33700	5.6	69.8	101	109
014	W14-01	333688.5	1549923.9	3 - 5	24000	2.8	45.6	56.7	73.7
014	W14-01	333688.5	1549923.9	5 - 10	22300	3.0	58.4	47.1	64.9
014	W14-02	333682.5	1549915.5	1 - 3	30700	0.13	64.3	79.4	94.2
014	W14-02	333682.5	1549915.5	3 - 5	24500	0.21	59.0	34.5	65.4
014	W14-02	333682.5	1549915.5	5 - 10	21900	0.29	64.0	70.3	160
014	W14-03	333561.9	1549910.7	1 - 3	16000	0.12	51.7	33.0	59.4
014	W14-03	333561.9	1549910.7	3 - 5	19200	0.13	64.3	34.6	58.1
014	W14-03	333561.9	1549910.7	5 - 10	22700	0.13	74.3	103	76.6
014	W14-04	333735.9	1549948.9	1 - 3	27200	0.12	92.5	133	108
014	W14-04	333735.9	1549948.9	3 - 5	16300	0.13	47.9	25.0	41.3
014	W14-04	333735.9	1549948.9	5 - 10	20000	0.13	65.5	37.0	68.0
014	W14-05	333567.8	1549900.6	1 - 3	14900	2.6	39.8	39.6	76.5
014	W14-05	333567.8	1549900.6	3 - 5	16200	3.1	48.7	45.3	81.7
014	W14-05	333567.8	1549900.6	5 - 10	22400	4.8	66.2	37.7	65.9
014	W14-06	333732.7	1549944.3	1 - 3	23000	4.0	43.1	79.8	77.4
014	W14-06	333732.7	1549944.3	3 - 5	19200	2.8	40.6	52.7	67.5
014	W14-06	333732.7	1549944.3	5 - 10	25300	3.4	72.0	44.7	80.5

Table 2-13

Selected Concentrations of Trace Metals in Soils at Site 19 Moffett Field (All Concentrations in ppm)

Site	Location	Northing	Easting	Depth (ft)	Aluminum	Beryllium	Chromium	Copper	Zinc
019	SB19-01	337530.8	1552686.9	1 - 3	30100	3.5	88.2	57.2	97.7
019	SB19-01	337530.8	1552686.9	3 - 5	18700	2.3	58.3	41.5	62.1
019	SB19-01	337530.8	1552686.9	5 - 10	22500	2.7	70.9	77.3	81.1
019	SB19-02	337552	1552689.2	1 - 3	17300	2.0	40.5	34.9	58.2
019	SB19-02	337552	1552689.2	3 - 5	20400	3.0	75.0	82.9	68.7
019	SB19-02	337552	1552689.2	5 - 10	21800	2.4	63.3	37.7	60.3
019	SB19-03	337574.1	1552659.1	1 - 3	18600	2.1	50.6	35.3	55.2
019	SB19-03	337574.1	1552659.1	3 - 5	20900	2.3	74.6	51.6	70.6
019	SB19-03	337574.1	1552659.1	5 - 10	21700	2.3	72.0	66.9	77.9
019	SB19-04	338094.1	1552473.9	1 - 3	17300	2.0	45.1	38.0	56.9
019	SB19-04	338094.1	1552473.9	3 - 5	17900	2.7	68.5	48.4	66.9
019	SB19-04	338094.1	1552473.9	5 - 10	20700	3.2	82.3	98.9	99.7
019	SB19-05	338087.8	1552450.3	1 - 3	17800	2.1	57.4	43.9	70.2
019	SB19-05	338087.8	1552450.3	5 - 10	29000	3.2	80.3	66.2	92.3
019	W19-01	338105.4	1552444.2	1 - 3	19100	0.11	66.8	35.5	61.1
019	W19-01	338105.4	1552444.2	3 - 5	18200	0.11	62.7	29.6	50.7
019	W19-01	338105.4	1552444.2	5 - 10	29400	0.13	79.1	38.6	66.1
019	W19-02	337975.5	1552511.4	1 - 3	22300	1.7	63.2	34.6	65.7
019	W19-02	337975.5	1552511.4	3 - 5	15700	1.2	56.7	47.0	65.6
019	W19-02	337975.5	1552511.4	5 - 10	20600	1.4	69.4	41.1	65.4
019	W19-03	338304.3	1552227.1	1 - 3	2980	0.23	30.9	27.8	89.0
019	W19-03	338304.3	1552227.1	3 - 5	10500	2.9	31.5	28.9	122
019	W19-03	338304.3	1552227.1	5 - 10	9660	0.94	41.6	38.7	77.9
019	W19-04	338292.7	1552236.2	1 - 3	3650	0.93	64.0	79.8	122
019	W19-04	338292.7	1552236.2	3 - 5	25000	0.23	78.6	37.8	75.1
019	W19-04	338292.7	1552236.2	5 - 10	13600	0.12	48.7	29.7	63.0

Table 3-1

Summary of Statistical Parameters for Initial Analysis
Moffett Field

Depth (ft)	East Side Sites			West Side Sites		
	Geometric Mean (ppm)	Geometric Deviation (ppm)	Chi Square	Geometric Mean (ppm)	Geometric Deviation (ppm)	Chi Square (ppm)
1-3	2.01	5.62	0.770	0.26	11.04	38.35
3-5	1.06	8.33	6.00	0.13	15.44	8.302
5-10	1.00	10.5	2.10	0.13	16.36	10.51

Table 3-2

Original and Duplicate Samples for Sitewide Beryllium Screening in Soils at Moffett Field
Moffett Field

Site	Sample Location	Depth (ft)	Original Sample Result (ppm)	Validated Qualifier	Duplicate Sample Result (ppm)	Validated Qualifier
003	SB03-03	7.5	5		5.5	
003	W03-20	9.5	0.85	J	0.43	J
004	SB04-03	3.5	0.35	J	0.36	J
004	W04-12	3.5	0.96	J	1.8	
005	FP05-06	3.5	3.9	J	4	U
005	SB05-01	5.5	3.8		4.4	
005	SB05-02	3.5	1.9		4	
005	SB05-25	3.5	2.1		2.1	
005	SB05-25	5.5	1.8		1.6	
005	SB05-25X	5.5	1.8		2.5	
005	SB05-30	2.5	0.79	J	0.61	J
005	SB05-32	2.5	1.5		1.7	
005	W05-11	5.5	0.63	J	0.25	J
005	W05-27	2.5	0.65	J	0.43	J
005	W05-19	4.5	1.2		1.2	

Table 3-2

(Page 2 of 4)

Site	Sample Location	Depth (ft)	Original Sample Result (ppm)	Validated Qualifier	Duplicate Sample Result (ppm)	Validated Qualifier
005	W05-06	6.5	0.77	J	0.95	J
005	W05-07	8.0	3.4		3.6	
005	W05-09	8.0	0.32	J	0.21	J
006	W06-08	2.5	0.41	J	0.89	J
006	W06-09	3.5	0.6	J	0.94	J
007	W07-17	3.5	0.52	J	1	J
007	W07-21	6.5	1.7		2.0	
007	SB07-03	6.0	0.13	U	0.13	U
007	W07-20	6.5	3.4		4.0	
007	SB07-01	6.0	0.14	U	0.14	U
008	W08-10	6.5	2.8		2.8	
008	W08-12	6.5	2.5		2.2	
008	SB08-11	4.0	0.12	U	0.13	U
008	SB08-13	4.0	0.14	U	0.13	U
008	W08-04	8.0	3.9		4.2	
008	W08-06	6.5	3.4		2.2	

Table 3-2

(Page 3 of 4)

Site	Sample Location	Depth (ft)	Original Sample Result (ppm)	Validated Qualifier	Duplicate Sample Result (ppm)	Validated Qualifier
009	FP09-01	6.5	0.42	U	0.59	J
009	FP09-02	4.5	2.5		3	
009	W09-16	6.5	0.71	J	1.2	
009	W09-17	6.5	0.23	U	0.22	U
009	W09-18	6.5	0.21	U	0.22	U
009	W09-26	6.5	0.36	J	0.42	J
009	W09-28	6.5	0.29	J	0.24	U
009	W09-37	6.5	0.22	U	0.22	U
009	W09-39	6.5	1.7		2.2	
009	W09-40	6.5	0.48	J	0.7	J
009	W09-04	8.0	0.13	U	0.14	U
009	W09-05	8.0	0.11	U	0.12	U
009	W09-06	8.0	1.0	U	0.13	U
010	W10-06	8.5	1.2		1.2	
011	SB11-02	1.5	1.6		1.3	
011	SB11-08	2.0	1.5		1.5	

Table 3-2

Site	Sample Location	Depth (ft)	Original Sample Result (ppm)	Validated Qualifier	Duplicate Sample Result (ppm)	Validated Qualifier
011	SB11-07	6.0	1.3		1.1	
012	SB12-01	2.0	0.12	U	0.13	U
012	SB12-02	6.0	0.13	U	0.13	U
012	SB12-03	2.0	0.12	U	0.13	U
012	SB12-04	6.0	0.12	U	0.11	U
012	W12-01	6.5	1.6		2.1	
013	SB13-02	1.5	0.12	U	0.13	U
014	W14-03	6.0	0.13	U	0.13	U
014	SB14-02	6.5	0.79	J	0.69	J
014	W14-01	6.5	2.0		3.0	
014	W14-04	6.5	0.13	U	0.14	U
019	W19-04	6.0	0.23	J	0.26	J
019	W19-01	8.0	0.13	U	0.13	U

NOTES:

J - estimated value
U - nondetected

Table 3-3

One-Way Hierarchial Analysis of Variance
USGS Statpac Program

Variable: Log Be										
Significance Level Q = .0500										
Analysis of Variance				Estimation of Variance Components				Test of Hypothesis		
Sources of Variability		Sum of Squares	Degrees of Freedom	Mean Square	Level	Unit Size	Variance Component	F-Ratio	Est.Q	Significance
Between Sites	Within Sites									
1	0	16.62770	14	1.1876 9	1	15	.08875	2.7817 8	.004	*
2	1	22.20159	52	.42695	2	67	.20488	24.839 91	.000	*
3	2	1.15161	67	.01719	3	134	.01719			
Total		39.98090	133				.31082			
		Variance Components as Percentages of the Total Variance								
		Residual Variance								
28.55	65.92	5.53								
Coefficients of Variance Components in Estimate of the Mean-Square										
Level 1	1.0000	2.0000	8.5714							
Level 2	1.0000	2.0000								
Level 3	1.0000									

Table 3-4

Summary Statistics for Beryllium Concentrations in Soils by Site
Moffett Field
(All values are reported in ppm)

Group	No. of Observations	Sample Arithmetic Mean	Sample Standard Deviation	Sample Geometric Mean	Sample Geometric Deviation
Site					
3	53	2.027	1.625	1.291	3.097
4	40	1.026	0.679	0.771	2.333
5	133	1.671	1.281	1.186	2.523
6	8	0.595	0.135	0.582	1.253
7	26	1.099	1.122	0.411	5.458
8	50	1.592	1.694	0.419	7.129
9	126	0.468	0.550	0.279	2.729
10	6	1.073	0.330	1.033	1.358
11	49	0.661	1.352	0.159	4.519
12	45	0.475	0.868	0.126	4.121
13	8	0.062	0.004	0.062	1.064
14	27	1.798	1.893	0.659	5.585
19	26	1.748	1.129	1.005	4.285

Table 3-5

Summary Statistics for Beryllium Concentrations in Soils by Sediment Type
Moffett Field
(All values are reported in ppm)

Group	No. of Observations	Sample Arithmetic Mean	Sample Standard Deviation	Sample Geometric Mean	Sample Geometric Deviation
Sediment Type					
Clay	322	1.478	1.335	0.853	3.365
Fine	89	1.116	1.305	0.558	3.483
Coarse	20	1.099	1.389	0.514	3.811
Shallow borings (no logs)[a]	166	0.603	1.091	0.158	4.457

[a]No soil classification.

Table 3-6

Summary Statistics for Beryllium Concentrations in Soils by Depth Interval
Moffett Field
(All values are reported in ppm)

Group	No. of Observations	Sample Arithmetic Mean	Sample Standard Deviation	Sample Geometric Mean	Sample Geometric Deviation
Depth interval (ft)					
1 - 3	215	1.146	1.350	0.445	4.864
3 - 5	189	1.178	1.277	0.527	4.246
5 - 10	193	1.183	1.335	0.518	4.285

Table 3-7

Kruskal-Wallis Test for Beryllium Concentrations in Soils by Group Variables Moffett Field

Group	Degrees of Freedom	p-Value	Results[a]
Depth intervals	2	0.4304	No
Sites	12	0.0001	Yes
Soil type	3	0.0001	Yes

[a]A "Yes" in this column indicates that at least one sample mean in a group is statistically different from the others at a 10 percent significance level (alpha = 0.10).

Table 3-8

Multiple Comparison Procedures for Sitewide Beryllium Concentrations by Site Moffett Field

Site	No. of Observations	Sample Geometric Mean (ppm)	t-Groupings			
3	53	1.291		A		
				A		
5	133	1.186	B	A		
			B	A		
10	6	1.033	B	A	C	
			B	A	C	
19	26	1.005	B	A	C	
			B	A	C	
4	40	0.771	B	A	C	D
			B		C	D
14	27	0.659	B		C	D
					C	D
6	8	0.582			C	D
						D
8	50	0.419		E		D
				E		D
7	26	0.411		E		D
				E		
9	126	0.279	F	E		
			F			
11	49	0.159	F	G		
				G		
12	45	0.126		G		
13	8	0.062		H		

Table 3-9

Multiple Comparison Procedures for Sitewide Beryllium Concentrations by Sediment Types Moffett Field

Sample Class	No. of Observations	Sample Geometric Mean (ppm)	t-Groupings
Clay	322	0.853	A
Fine	89	0.558	B
			B
Coarse	20	0.514	B
Shallow	166	0.158	C

Table 3-10

Distribution of Sediment Types By Site at Moffett Field

Site	Clay		Fine		Coarse		Shallow	
	N	%	N	%	N	%	N	%
3	38	72	3	6	0	0	12	23
4	21	53	15	38	4	10	0	0
5	98	73	18	14	4	3	13	10
6	6	75	2	25	0	0	0	0
7	17	65	1	4	0	0	8	32
8	16	32	8	16	0	0	26	52
9	73	58	34	27	10	8	9	7
10	5	83	1	17	0	0	0	0
11	1	2	1	0	2	4	45	92
12	0	0	0	0	0	0	45	100
13	0	0	0	0	0	0	8	100
14	26	96	1	4	0	0	0	0
19	21	81	5	19	0	0	0	0

Clay includes soils classified as ol, oh, ch, gc, sc, and cl.
Fine includes soils classified as ml, sm, gm, and mh.
Coarse includes soils classified as gp, sw, sp, and gw.

APPENDIX A

STATISTICAL DATA FOR EAST AND WEST SIDE SITES

Sites 3 4 5 6 7 and 19 1-3 foot depth
VARIABLE 1: Beryllium

NUMBER OF SAMPLES = 87
SUM OF X1 = 26.40173
SUM OF SQUARES OF X1 = 56.43144

LOG GEOMETRIC MEAN OF X1 = .3034682
LOG GEOMETRIC VARIANCE OF X1 = .5630158
LOG GEOMETRIC DEVIATION OF X1 = .7503438

SAMPLE NUMBER	ORIGINAL SAMPLE	STANDARDIZED SAMPLE
1	1.335001	1.374747
2	1.223775	1.226514
3	1.871802	2.090154
4	1.064711	1.014525
5	1.458615	1.53949
6	1.481605	1.570129
7	.5187938	.2869693
8	.832909	.7055977
9	-.8439701	-1.529217
10	-.7339693	-1.382616
11	.5877866	.3789176
12	-2.207275	-3.346124
13	.4054651	.1359336
14	.5877866	.3789176
15	.7419373	.5843576
16	-.6348785	-1.250556
17	-1.005035E-02	-.4178332
18	-.597837	-1.20119
19	.5877866	.3789176
20	-.2744369	-.7701871
21	-.9416086	-1.659342
22	-.4004776	-.9381644
23	-1.309333	-2.149417
24	0	-.4044389
25	-.5276328	-1.107627
26	.2623642	-5.478021E-02
27	.4700037	.2219456
28	-.356675	-.8797876
29	.7419373	.5843576
30	.5877866	.3789176

Sites 3 4 5 6 7 and 19 1-3 foot depth
VARIABLE 1: Beryllium

NUMBER OF SAMPLES = 87

31	.4054651	.1359336	
32	.4700037	.2219456	
33	-.8439701	-1.529217	
34	.1823215	-.1614549	
35	1.360977	1.409365	
36	.1823215	-.1614549	
37	1.386294	1.443107	
38	.6418539	.4509743	
39	0	-.4044389	
40	0	-.4044389	
41	-2.020272E-02		-.4313635
42	.3364722	4.398524E-02	
43	9.531012E-02		-.2774169
44	.7884573	.646356	
45	.7884573	.646356	
46	.4054651	.1359336	
47	1.131402	1.103406	
48	.7419373	.5843576	
49	.6418539	.4509743	
50	1.193922	1.186728	
51	1.064711	1.014525	
52	-.2357223	-.7185913	
53	9.531012E-02		-.2774169
54	.4054651	.1359336	
55	9.531012E-02		-.2774169
56	.7419373	.5843576	
57	.7419373	.5843576	
58	.3364722	4.398524E-02	
59	1.360977	1.409365	
60	-.3011051	-.8057284	
61	-.6539266	-1.275942	
62	.9932518	.9192902	
63	-.3710637	-.8989638	
64	.8754687	.762318	
65	1.757858	1.938298	
66	1.757858	1.938298	
67	1.064711	1.014525	
68	1.131402	1.103406	

Sites 3 4 5 6 7 and 19 1-3 foot depth
VARIABLE 1: Beryllium

NUMBER OF SAMPLES = 87

69	.2623642	-5.478021E-02	
70	-.3147108	-.823861	
71	-.3424904	-.8608835	
72	.1823215	-.1614549	
73	-.430783	-.9785531	
74	-.8915981	-1.592692	
75	-.5108257	-1.085228	
76	-.1743534	-.6368036	
77	0	-.4044389	
78	0	-.4044389	
79	-.6539266	-1.275942	
80	.3364722	4.398524E-02	
81	-3.045924E-02		-.4450326
82	1.098612	1.059707	
83	.7419373	.5843576	
84	0	-.4044389	
85	.5306283	.3027414	
86	0	-.4044389	
87	-7.257072E-02		-.5011555

CHI SQUARE VALUE = .770115
Beryllium FOR Sites 4 5 6 7 and 19 1-3 foot depth ARE LOG-NORMALY DISTRIBUTED.

Sites 3 4 5 6 7 and 19 3-5 foot depth
VARIABLE 1: Beryllium

NUMBER OF SAMPLES = 92
SUM OF X1 = 6.120708
SUM OF SQUARES OF X1 = 82.70993

LOG GEOMETRIC MEAN OF X1 = 6.652944E-02
LOG GEOMETRIC VARIANCE OF X1 = .9044256
LOG GEOMETRIC DEVIATION OF X1 = .9510129

SAMPLE NUMBER	ORIGINAL SAMPLE	STANDARDIZED SAMPLE
1	1.386294	1.387747
2	.9932518	.9744582
3	1.335001	1.333811
4	1.410987	1.413711
5	1.481605	1.487966
6	.6931471	.658895
7	.4700037	.4242574
8	-2.040221	-2.21527
9	.1823215	.1217566
10	.2623642	.2059223
11	.9932518	.9744582
12	-.6931473	-.798808
13	-1.108663	-1.235727
14	-.6931473	-.798808
15	-.9675841	-1.087381
16	.6418539	.6049596
17	-.9675841	-1.087381
18	-1.309333	-1.446734
19	-.8675006	-.9821422
20	-1.049822	-1.173855
21	9.531012E-02	3.026319E-02
22	-.1743534	-.2532908
23	.5306283	.4880048
24	.1823215	.1217566
25	.2623642	.2059223
26	.832909	.8058561
27	-4.082203E-02	-.1128812
28	.1823215	.1217566
29	.7419373	.7101983
30	-.9162907	-1.033446

Sites 3 4 5 6 7 and 19 3-5 foot depth
VARIABLE 1: Beryllium

NUMBER OF SAMPLES = 92

31	1.064711	1.049598	
32	-.1743534	-.2532908	
33	.1823215	.1217566	
34	1.335001	1.333811	
35	1.098612	1.085246	
36	-1.514128	-1.662077	
37	-1.514128	-1.662077	
38	-.2876821	-.3724571	
39	-.9942522	-1.115423	
40	-.1625189	-.2408467	
41	-7.257072E-02		-.1462653
42	.1823215	.1217566	
43	.4700037	.4242574	
44	.4054651	.3563944	
45	.3364722	.2838476	
46	.4054651	.3563944	
47	-1.049822	-1.173855	
48	-1.469676	-1.615336	
49	1.098612	1.085246	
50	-.3710637	-.4601338	
51	.4700037	.4242574	
52	.4700037	.4242574	
53	.5877866	.5481073	
54	.832909	.8058561	
55	1.252763	1.247337	
56	-.8915981	-1.007481	
57	-2.020272E-02		-9.119977E-02
58	.1823215	.1217566	
59	.1823215	.1217566	
60	.832909	.8058561	
61	.5877866	.5481073	
62	-.5447272	-.6427428	
63	1.335001	1.333811	
64	0	-.0699564	
65	-1.171183	-1.301468	
66	-2.020272E-02		-9.119977E-02
67	-.4620355	-.5557916	
68	1.029619	1.012699	
69	1.568616	1.57946	

Sites 3 4 5 6 7 and 19 3-5 foot depth
VARIABLE 1: Beryllium

NUMBER OF SAMPLES = 92

70	1.589235	1.601141	
71	1.163151	1.153109	
72	.1823215	.1217566	
73	-.7985078	-.9095957	
74	-.6161861	-.7178826	
75	.3364722	.2838476	
76	-.7339693	-.8417328	
77	-.3710637	-.4601338	
78	-.6348785	-.7375378	
79	-2.040221	-2.21527	
80	-2.040221	-2.21527	
81	-2.040221	-2.21527	
82	9.531012E-02		3.026319E-02
83	.832909	.8058561	
84	.6418539	.6049596	
85	1.193922	1.185466	
86	.5877866	.5481073	
87	.832909	.8058561	
88	1.098612	1.085246	
89	.832909	.8058561	
90	.9932518	.9744582	
91	-2.207275	-2.390929	
92	.1823215	.1217566	

CHI SQUARE VALUE = 6
Beryllium FOR Sites 3 4 5 6 7 and 19 3-5 foot depth ARE NOT LOG-NORMALY DISTRIBUTED.

Sites 3 4 5 6 7 and 19 5-10 foot depth
VARIABLE 1: Beryllium

NUMBER OF SAMPLES = 89
SUM OF X1 = 9.075117E-02
SUM OF SQUARES OF X1 = 92.45407

LOG GEOMETRIC MEAN OF X1 = 1.019676E-03
LOG GEOMETRIC VARIANCE OF X1 = 1.050613
LOG GEOMETRIC DEVIATION OF X1 = 1.024994

SAMPLE NUMBER	ORIGINAL SAMPLE	STANDARDIZED SAMPLE
1	1.481605	1.444481
2	1.667707	1.626045
3	1.609438	1.569197
4	.6418539	.6252076
5	-2.040221	-1.991465
6	.1823215	.1768808
7	.7080357	.6897755
8	-1.07881	-1.053498
9	-1.108663	-1.082623
10	.9555113	.9312164
11	.5877866	.5724587
12	-.4620355	-.4517637
13	-1.469676	-1.434833
14	-.5447272	-.5324389
15	-1.469676	-1.434833
16	-.356675	-.3489723
17	-.1625189	-.1595507
18	.1823215	.1768808
19	-.3710637	-.3630102
20	.5877866	.5724587
21	.7884573	.768236
22	.2623642	.2549716
23	.1823215	.1768808
24	.9162907	.8929522
25	-1.108663	-1.082623
26	-8.338156E-02	-8.234313E-02
27	1.029619	1.003517
28	-.2744369	-.2687396
29	.2623642	.2549716
30	1.098612	1.070828

Sites 3 4 5 6 7 and 19 5-10 foot depth
VARIABLE 1: Beryllium

NUMBER OF SAMPLES = 89

31	1.098612	1.070828
32	-1.427116	-1.393311
33	-1.469676	-1.434833
34	.5306283	.5166942
35	-.4942963	-.4832378
36	-.7765287	-.758588
37	.6931471	.6752499
38	.2623642	.2549716
39	0	-9.948114E-04
40	.5877866	.5724587
41	.4700037	.4575478
42	-.4462872	-.4363993
43	-.4780359	-.4673739
44	-1.427116	-1.393311
45	.6931471	.6752499
46	.5877866	.5724587
47	.7884573	.768236
48	1.308333	1.275434
49	-1.171183	-1.143619
50	-.1984509	-.1946065
51	-.1165339	-.1146871
52	.8754687	.8531257
53	.5877866	.5724587
54	-.2613648	-.2559863
55	1.223775	1.192939
56	-.1743534	-.1710966
57	-1.139434	-1.112644
58	.6418539	.6252076
59	-.4004776	-.3917068
60	.9555113	.9312164
61	1.740466	1.69703
62	1.481605	1.444481
63	1.223775	1.192939
64	.6931471	.6752499
65	-.6348785	-.6203918
66	-1.469676	-1.434833
67	.1823215	.1768808
68	-.7339693	-.7170663

Sites 3 4 5 6 7 and 19 5-10 foot depth
VARIABLE 1: Beryllium

NUMBER OF SAMPLES = 89

69	-.4620355	-.4517637	
70	-.7765287	-.758588	
71	-.5108257	-.499364	
72	-1.966113	-1.919164	
73	-2.120264	-2.069556	
74	-2.040221	-1.991465	
75	-2.120264	-2.069556	
76	-.5108257	-.499364	
77	.5877866	.5724587	
78	.6931471	.6752499	
79	1.223775	1.192939	
80	.5306283	.5166942	
81	.9932518	.9680366	
82	.8754687	.8531257	
83	.832909	.8116038	
84	1.163151	1.133793	
85	1.163151	1.133793	
86	-2.040221	-1.991465	
87	.3364722	.3272726	
88	-6.187542E-02		-.0613614
89	-2.120264	-2.069556	

CHI SQUARE VALUE = 2.101124
Beryllium FOR Sites 3 4 5 6 7 and 19 5-10 foot depth ARE LOG-NORMALY DISTRIBUTED.

Sites 8 9 10 12 14 1-3 foot depth
VARIABLE 1: Beryllium

NUMBER OF SAMPLES = 40
SUM OF X1 = 2.926237
SUM OF SQUARES OF X1 = 38.79575

LOG GEOMETRIC MEAN OF X1 = 7.315592E-02
LOG GEOMETRIC VARIANCE OF X1 = .9892738
LOG GEOMETRIC DEVIATION OF X1 = .9946224

SAMPLE NUMBER	ORIGINAL SAMPLE	STANDARDIZED SAMPLE
1	.8754687	.8066506
2	1.280934	1.214308
3	1.193922	1.126826
4	1.131402	1.063968
5	1.029619	.9616347
6	.9555113	.887126
7	1.360977	1.294783
8	.4054651	.3341059
9	.6931471	.6233433
10	-1.469676	-1.551173
11	-1.07881	-1.158194
12	-.3710637	-.4466214
13	.9162907	.8476933
14	-.5447272	-.6212238
15	-9.431065E-02	-.168372
16	.1823215	.1097558
17	-.3147108	-.3899638
18	-1.171183	-1.251067
19	-1.386294	-1.467341
20	9.531012E-02	2.227399E-02
21	-1.427116	-1.508384
22	-.1743534	-.2488475
23	-.4462872	-.5222516
24	-1.386294	-1.467341
25	.4700037	.3989934
26	-.4942963	-.5705203
27	-.5798186	-.656505
28	-1.347074	-1.427908
29	.2623642	.1902313
30	-.8915981	-.9699701

Sites 3 4 5 6 7 and 19 5-10 foot depth
VARIABLE 1: Beryllium

NUMBER OF SAMPLES = 89

31	-.9675841	-1.046367
32	.9555113	.887126
33	.5306283	.4599458
34	1.064711	.9969158
35	-1.469676	-1.551173
36	-.3856625	-.4612991
37	1.458615	1.39295
38	1.722767	1.65853
39	.9555113	.887126
40	1.386294	1.320238

CHI SQUARE VALUE = 2.6
Beryllium FOR Sites 8 9 10 12 14 1-3 foot depth ARE NORMALY DISTRIBUTED.

Sites 8 9 10 12 14 1-3 foot depth
VARIABLE 1: Beryllium

NUMBER OF SAMPLES = 71
SUM OF X1 = -41.34088
SUM OF SQUARES OF X1 = 100.2849

GEOMETRIC MEAN OF X1 = -.5822659
GEOMETRIC VARIANCE OF X1 = 1.088764
GEOMETRIC DEVIATION OF X1 = 1.043438

SAMPLE NUMBER	ORIGINAL SAMPLE	STANDARDIZED SAMPLE
1	-1.386294	-.7705568
2	-1.386294	-.7705568
3	-1.386294	-.7705568
4	-1.386294	-.7705568
5	-1.386294	-.7705568
6	-1.386294	-.7705568
7	-1.386294	-.7705568
8	-1.386294	-.7705568
9	-1.386294	-.7705568
10	-1.386294	-.7705568
11	-1.386294	-.7705568
12	-1.386294	-.7705568
13	.8754687	1.397049
14	1.280934	1.785634
15	1.193922	1.702245
16	1.131402	1.642328
17	1.029619	1.544782
18	.9555113	1.473759
19	1.360977	1.862345
20	.4054651	.9466116
21	-1.386294	-.7705568
22	.6931471	1.222317
23	-1.469676	-.8504671
24	-1.386294	-.7705568
25	-1.386294	-.7705568
26	-1.386294	-.7705568
27	-1.386294	-.7705568
28	-1.07881	-.4758728
29	-.3710637	.2024098
30	.9162907	1.436172

Sites 8 9 10 12 14 1-3 foot depth
VARIABLE 1: Beryllium

NUMBER OF SAMPLES = 71

31	-.5447272	3.597591E-02	
32	-1.386294	-.7705568	
33	.1823215	.7327576	
34	-.3147108	.2564168	
35	-1.171183	-.5644005	
36	-1.386294	-.7705568	
37	-1.386294	-.7705568	
38	-1.386294	-.7705568	
39	-1.386294	-.7705568	
40	-1.386294	-.7705568	
41	9.531012E-02		.6493684
42	-1.427116	-.8096793	
43	-.1743534	.390931	
44	-.4462872	.1303179	
45	-1.386294	-.7705568	
46	-1.386294	-.7705568	
47	-1.386294	-.7705568	
48	.4700037	1.008463	
49	-1.386294	-.7705568	
50	-.4942963	8.430736E-02	
51	-1.386294	-.7705568	
52	-.5798186	2.345368E-03	
53	-1.386294	-.7705568	
54	-1.347074	-.732969	
55	.2623642	.809468	
56	-.8915981	-.2964547	
57	-1.386294	-.7705568	
58	-1.386294	-.7705568	
59	-.9675841	-.3692774	
60	.9555113	1.473759	
61	.5306283	1.066564	
62	1.064711	1.578413	
63	-1.469676	-.8504671	
64	-.3856625	.1884188	
65	1.458615	1.955919	
66	1.722767	2.209074	
67	-1.386294	-.7705568	
68	-1.386294	-.7705568	

Sites 8 9 10 12 14 1-3 foot depth
VARIABLE 1: Beryllium

NUMBER OF SAMPLES = 71

69	-1.386294	-.7705568
70	.9555113	1.473759
71	1.386294	1.886609

CHI SQUARE VALUE = 38.35211
Beryllium FOR Sites 8 9 10 12 14 1-3 foot depth ARE NOT LOG-NORMALY DISTRIBUTED.

Site 8 9 10 11 12 13 and 14 3-5 foot depth
VARIABLE 1: Beryllium

NUMBER OF SAMPLES = 91
SUM OF X1 = -81.52863
SUM OF SQUARES OF X1 = 200.1955

MEAN OF X1 = -.8959189
VARIANCE OF X1 = 1.412805
STANDARD DEVIATION OF X1 = 1.188615

SAMPLE NUMBER	ORIGINAL SAMPLE	STANDARDIZED SAMPLE
1	-2.120264	-1.03006
2	-2.120264	-1.03006
3	-1.89712	-.8423259
4	-1.966113	-.9003707
5	-1.89712	-.8423259
6	-1.89712	-.8423259
7	-1.966113	-.9003707
8	-1.966113	-.9003707
9	-2.040221	-.962719
10	-2.040221	-.962719
11	-2.040221	-.962719
12	-2.040221	-.962719
13	-1.966113	-.9003707
14	1.280934	1.83142
15	1.568616	2.073451
16	1.435085	1.961109
17	1.280934	1.83142
18	1.223775	1.783332
19	.8754687	1.490296
20	1.435085	1.961109
21	.9932518	1.589389
22	-1.427116	-.4469047
23	.9162907	1.52464
24	-.7339693	.1362508
25	-2.040221	-.962719
26	-2.040221	-.962719
27	0	.7537505
28	-1.966113	-.9003707
29	-1.427116	-.4469047
30	.2623642	.9744815

Site 8 9 10 11 12 13 and 14 3-5 foot depth
VARIABLE 1: Beryllium

NUMBER OF SAMPLES = 91

31	1.064711	1.649508	
32	-.4004776	.4168225	
33	-.6161861	.2353436	
34	0	.7537505	
35	-.3147108	.4889795	
36	-1.514128	-.5201087	
37	-.3424904	.4656081	
38	-1.427116	-.4469047	
39	-1.514128	-.5201087	
40	-1.514128	-.5201087	
41	-1.660731	-.6434485	
42	-1.469676	-.4827106	
43	-.597837	.250781	
44	-.356675	.4536744	
45	-1.049822	-.1294811	
46	-.7550226	.1185383	
47	-1.237874	-.2876924	
48	-1.966113	-.9003707	
49	-1.514128	-.5201087	
50	-1.386294	-.4125604	
51	-1.427116	-.4469047	
52	-.139262	.6365872	
53	-1.386294	-.4125604	
54	-1.203973	-.2591705	
55	-1.514128	-.5201087	
56	-1.139434	-.2048733	
57	-1.427116	-.4469047	
58	-1.427116	-.4469047	
59	9.531012E-02		.8339364
60	-.4620355	.3650329	
61	-1.347074	-.3795636	
62	-1.386294	-.4125604	
63	-1.139434	-.2048733	
64	-7.257072E-02		.6926956
65	.1823215	.9071405	
66	9.531012E-02		.8339364
67	.2623642	.9744815	
68	-2.120264	-1.03006	

Site 8 9 10 11 12 13 and 14 3-5 foot depth
VARIABLE 1: Beryllium

NUMBER OF SAMPLES = 91

69	-2.120264	-1.03006
70	-2.120264	-1.03006
71	-2.120264	-1.03006
72	-2.120264	-1.03006
73	-2.040221	-.962719
74	-1.966113	-.9003707
75	-2.040221	-.962719
76	-2.040221	-.962719
77	-2.120264	-1.03006
78	-2.040221	-.962719
79	-2.120264	-1.03006
80	.9162907	1.52464
81	.3364722	1.03683
82	.6931471	1.336906
83	-.6539266	.2035919
84	-.7765287	.1004449
85	1.704748	2.187981
86	1.029619	1.619985
87	-1.560648	-.5592466
88	-2.040221	-.962719
89	-2.040221	-.962719
90	1.131402	1.705617
91	1.029619	1.619985

CHI SQUARE VALUE = 8.296703
Beryllium FOR Site 8 9 10 11 12 13 and 14 3-5 foot depth ARE NOT LOG-NORMALY DISTRIBUTED.

Site 8 9 10 11 12 14 5-10 foot depth
VARIABLE 1: Beryllium

NUMBER OF SAMPLES = 97
SUM OF X1 = -85.85718
SUM OF SQUARES OF X1 = 217.4197

LOG GEOMETRIC MEAN OF X1 = -.8851255
LOG GEOMETRIC VARIANCE OF X1 = 1.47318
LOG GEOMETRIC DEVIATION OF X1 = 1.213746

SAMPLE NUMBER	ORIGINAL SAMPLE	STANDARDIZED SAMPLE
1	1.308333	1.80718
2	1.360977	1.850553
3	1.360977	1.850553
4	1.223775	1.737514
5	.6418539	1.258071
6	1.029619	1.577549
7	1.308333	1.80718
8	.9162907	1.484178
9	-.8675006	1.452113E-02
10	.8754687	1.450545
11	-.5798186	.2515409
12	-2.040221	-.9516778
13	-2.207275	-1.089313
14	0	.7292508
15	-2.207275	-1.089313
16	-1.309333	-.3495028
17	-.4004776	.3992992
18	.7419373	1.34053
19	-1.108663	-.1841712
20	-.3285041	.4585978
21	0	.7292508
22	-.6348785	.2061774
23	-1.609438	-.5967575
24	-.3424904	.4470746
25	-1.469676	-.4816084
26	-1.560648	-.5565596
27	-1.469676	-.4816084
28	-1.514128	-.518232
29	-1.07881	-.1595755
30	-.9675841	-6.793722E-02

Site 8 9 10 11 12 14 5-10 foot depth
VARIABLE 1: Beryllium

NUMBER OF SAMPLES = 97

31	-2.020272E-02		.7126058
32	-.562119	.2661236	
33	-.6733447	.1744853	
34	-1.021651	-.1124829	
35	-2.120264	-1.017625	
36	-1.237874	-.2906281	
37	-1.386294	-.4129107	
38	-1.386294	-.4129107	
39	-3.045924E-02		.7041556
40	-1.427116	-.4465438	
41	-1.021651	-.1124829	
42	-1.514128	-.518232	
43	-.7339693	.1245369	
44	-1.514128	-.518232	
45	-1.514128	-.518232	
46	.5306283	1.166433	
47	-.7339693	.1245369	
48	-1.469676	-.4816084	
49	-1.427116	-.4465438	
50	-.7339693	.1245369	
51	-.3856625	.4115053	
52	.1823215	.8794646	
53	-1.832582	-.7806046	
54	-1.966113	-.8906204	
55	-1.89712	-.8337775	
56	-1.771957	-.7306563	
57	-2.040221	-.9516778	
58	-1.966113	-.8906204	
59	-1.966113	-.8906204	
60	-1.771957	-.7306563	
61	-2.207275	-1.089313	
62	-2.207275	-1.089313	
63	-2.040221	-.9516778	
64	-2.120264	-1.017625	
65	-2.120264	-1.017625	
66	-1.966113	-.8906204	
67	.2623642	.9454114	
68	.4054651	1.063312	

Site 8 9 10 11 12 14 5-10 foot depth
VARIABLE 1: Beryllium

NUMBER OF SAMPLES = 97

69	1.609438	2.055259
70	1.704748	2.133785
71	-2.040221	-.9516778
72	-2.207275	-1.089313
73	-2.207275	-1.089313
74	-2.120264	-1.017625
75	-2.040221	-.9516778
76	-2.040221	-.9516778
77	-2.120264	-1.017625
78	-1.966113	-.8906204
79	-2.040221	-.9516778
80	-1.966113	-.8906204
81	-2.040221	-.9516778
82	.7419373	1.34053
83	.2623642	.9454114
84	.9555113	1.516492
85	-2.207275	-1.089313
86	-2.040221	-.9516778
87	-2.120264	-1.017625
88	-2.040221	-.9516778
89	-.8915981	-5.332686E-03
90	-.2357223	.5350403
91	.9555113	1.516492
92	1.098612	1.634392
93	-1.237874	-.2906281
94	-2.040221	-.9516778
95	-2.040221	-.9516778
96	1.568616	2.021626
97	1.223775	1.737514

CHI SQUARE VALUE = 10.50516
Beryllium FOR Site 8 9 10 11 12 14 5-10 foot depth ARE NOT LOG-NORMALY DISTRIBUTED.

APPENDIX B

~~STATISTICAL ANALYSIS - SAS OUTPUT FILES~~

BERYLLIUM RESULTS FOR DUPLICATE SOIL SAMPLES

NAS MOFFETT FIELD

SITE	WELL	DEPTH_1	DEPTH_2	SAMPLE_ID	RESULT_CHK	QUAL_CHK
001	W01-06	5.0	8.0	W0106AMD3	0.12	U
001	W01-06	5.0	8.0	W2503AMD3	0.11	U
001	W01-08	5.0	8.0	W2508AMD3	0.22	U
001	W01-08	5.0	8.0	W0108AMD3	0.22	U
001	W01-10	15.0	18.0	W2505AMD3	0.12	U
001	W01-10	15.0	18.0	W0110FMD3	0.15	U
001	W01-09	28.0	29.5	W0109FMD3	0.99	J
001	W01-09	29.5	31	DUP01	0.66	J
002	W02JAGEL	0	.5	SED06	0.77	J
002	W02JAGEL	0	.5	SED03	0.2	U
002	W02-05	5.0	8.0	W0205AMD3	0.11	U
002	W02-05	5.0	8.0	W2509AMD3	0.12	U
002	W02-06	5.0	8.0	W2507AMD3	0.13	U
002	W02-06	5.0	8.0	W0206AMD3	0.13	U
002	W02-07	10.0	11.5	W2501AMD5	0.12	U
002	W02-07	10.0	11.5	W0207AMD5	0.12	U
003	SB03-03	6	7.5	SB0303MD3	5	
003	SB03-03	6	7.5	SB0303MD4-I	5.5	
003	W03-20	8	9.5	W0320MD3	0.85	J
003	W03-20	8	9.5	W0320MD4-I	0.43	J
003	SB03-03-P1	0.2	2.2	SB0303MD2-P1	5.2	
003	SB03-03-P1	0.2	2.2	SB0303MD1-P1	2.9	
003	SB03-09	0.2	1.2	SB0309MD2	0.65	J
003	SB03-09	0.2	1.2	SB0309MD1	0.48	J
003	W03-12	5.0	6.5	W0312B1MD4	1.9	
003	W03-12	5.0	6.5	W0312B1MD3	1.9	
003	W03-23	5.0	6.5	W0323AMD3	1.8	
003	W03-23	5.0	6.5	W0323AMD4	2	
004	W04-12	2	3.5	W0412MD1	1.5	
004	W04-12	2	3.5	W0412MD4-I	1.8	
004	W04-11-P1	5.0	6.5	W0411AMD3	2.2	
004	W04-11-P1	5.0	6.5	W0411AMD4	1.7	
005	SB05-30	1	2.5	SB0530MD1	0.79	J
005	SB05-30	1	2.5	SB0530MD4-I	0.61	J
005	SB05-32	1	2.5	SB0532MD1	1.5	
005	SB05-32	1	2.5	SB0532MD4-I	1.7	
005	W05-27	1	2.5	W0527MD1	0.65	J
005	W05-27	1	2.5	W0527MD4-I	0.43	J
005	FP05-06	2	3.5	FP0506MD1	3.9	J
005	FP05-06	2	3.5	FP0506MD4-I	4	U
005	SB05-02	2	3.5	SB0502MD4-I	4	
005	SB05-02	2	3.5	SB0502MD1	1.9	
005	SB05-25	2	3.5	SB0525MD4	2.1	
005	SB05-25	2	3.5	SB0525MD1	2.1	

SITE	WELL	DEPTH_1	DEPTH_2	SAMPLE_ID	RESULT_CHK	QUAL_CHK
005	SB05-01	4	5.5	SB0501MD2	3.8	
005	SB05-01	4	5.5	SB0501MD4-I	4.4	
005	SB05-25	4	5.5	SB0525MD5	1.6	
005	SB05-25	4	5.5	SB0525MD2	1.6	
005	SB05-25X	4	5.5	SB0525XMD2	1.8	
005	SB05-25X	4	5.5	SB0525XMD4-I	2.5	
005	W05-11	4	5.5	W0511MD2	0.63	J
005	W05-11	4	5.5	W0511MD4	0.25	J
005	SB05-20	10	10.5	SB0520MD4-I	0.6	J
005	SB05-20	12	13.5	SB0520MD3	0.27	J
005	W05-19	3.0	4.5	W0519AMD2	1.2	
005	W05-19	3.0	4.5	W0519AMD4	1.2	
005	W05-06	5.0	6.5	W0506AMD4	0.95	J
005	W05-06	5.0	6.5	W0506AMD3	0.77	J
005	W05-07	5.0	8.0	W0507AMD3	3.4	
005	W05-07	5.0	8.0	W0507AMD4	3.6	
005	W05-09	5.0	8.0	W0509AMD3	0.32	J
005	W05-09	5.0	8.0	W0509AMD4	0.21	J
006	W06-08	1	2.5	W0608MD1	0.41	J
006	W06-08	1	2.5	W0608MD4-I	0.89	J
006	W06-09	2	3.5	W0609MD1	0.6	J
006	W06-09	2	3.5	W0609MD4-I	0.94	J
007	W07-17	2	3.5	W0717MD4-I	[illegible]	J
007	W07-17	2	3.5	W0717MD1	0 52	J
007	SB07-01	5.0	6.0	SB0701MD4	0.14	U
007	SB07-01	5.0	6.0	SB0701MD3	0.14	U
007	SB07-03	5.0	6.0	SB0703MD2	0.13	U
007	SB07-03	5.0	6.0	SB0703MD3	0.13	U
007	W07-20	5.0	6.5	W0720AMD4	4	
007	W07-20	5.0	6.5	W0720AMD3	3.4	
007	W07-21	5.0	6.5	W0721AMD4	2	
007	W07-21	5.0	6.5	W0721AMD3	1.7	
008	SB08-11	3.0	4.0	SB0811MD2	0.13	U
008	SB08-11	3.0	4.0	SB0811MD3	0.12	U
008	SB08-13	3.0	4.0	SB0813MD3	0.13	U
008	SB08-13	3.0	4.0	SB0813MD2	0.14	U
008	W08-04	5.0	8.0	W0804AMD3	3.9	
008	W08-04	5.0	8.0	W0804AMD4	4.2	
008	W08-06	5.0	6.5	W0806AMD3	3.4	
008	W08-06	5.0	6.5	W0806AMD4	2.2	
009	FP09-02	3	4.5	FP0902MD2	2.5	
009	FP09-02	3	4.5	FP0902MD4	3	
009	FP09-01	5	6.5	FP0901MD3	0.42	U
009	FP09-01	5	6.5	FP0901MD4	0.59	J

SITE	WELL	DEPTH_1	DEPTH_2	SAMPLE_ID	RESULT_CHK	QUAL_CHK
009	W09-04	5.0	8.0	W0904B2MD4	0.14	U
009	W09-04	5.0	8.0	W0904B2MD3	0.13	U
009	W09-05	5.0	8.0	W0905B3MD3	0.11	U
009	W09-05	5.0	8.0	W0905B3MD4	0.12	U
009	W09-06	5.0	8.0	W0906AMD3	1	U
009	W09-06	5.0	8.0	W2504AMD3	0.13	U
009	W09-16	5.0	6.5	W0916A1MD4-I	1.2	
009	W09-16	5.0	6.5	W0916A1MD3	0.71	J
009	W09-17	5.0	6.5	W0917A2MD3	0.23	U
009	W09-17	5.0	6.5	W0917A2MD4-I	0.22	U
009	W09-18	5.0	6.5	W0918A1MD4-I	0.22	U
009	W09-18	5.0	6.5	W0918A1MD3	0.21	U
010	W10-06	7.0	8.5	W1006CMD3	1.2	
010	W10-06	7.0	8.5	W1006CMD4	1.2	
011	SB11-02	0.5	1.5	SB1102MD1	1.6	
011	SB11-02	0.5	1.5	SB1102MD2	1.3	
011	SB11-08	1.0	2.0	SB1108MD2	1.5	
011	SB11-08	1.0	2.0	SB1108MD1	1.5	
011	SB11-07	5.0	6.0	SB1107MD2	1.3	
011	SB11-07	5.0	6.0	SB1107MD3	1.1	
011	SB11-01	10.5	11.5	SB1101MD1	1.4	
011	SB11-01	10.5	11.5	SB1101MD2	1.2	
012	SB12-01	1.0	2.0	SB1201MD1	0.12	U
012	SB12-01	1.0	2.0	SB1201MD2	0.13	U
012	SB12-02	5.0	6.0	SB1202MD3	0.13	U
012	SB12-02	5.0	6.0	SB1202MD4	0.13	U
012	SB12-03	5.0	6.0	SB1203MD4	0.12	U
012	SB12-03	5.0	6.0	SB1203MD3	0.11	U
012	SB12-04	5.0	6.0	SB1204MD4	0.12	U
012	SB12-04	5.0	6.0	SB1204MD3	0.11	U
012	W12-01	5.0	6.5	W1201AMD4	1.6	
012	W12-01	5.0	6.5	W1201AMD3	2.1	
013	SB13-02	0.5	1.5	SB1302MD1	0.12	U
013	SB13-02	0.5	1.5	SB1302MD2	0.13	U
014	W14-03	3.0	6.0	W1403AMD4	0.13	U
014	W14-03	3.0	6.0	W1403AMD2	0.13	U
014	SB14-02	5.0	6.5	SB1402MD3	0.79	J
014	SB14-02	5.0	6.5	SB1402MD4	0.69	J
014	W14-01	5.0	6.5	W1401B1MD4	2	
014	W14-01	5.0	6.5	W1401B1MD3	3	
014	W14-04	5.0	6.5	W1404AMD3	0.13	U
014	W14-04	5.0	6.5	W1404AMD4	0.14	U

SITE	WELL	DEPTH_1	DEPTH_2	SAMPLE_ID	RESULT_CHK	QUAL_CHK
019	W19-04	3.0	6.0	W1904AMD2	0.23	J
019	W19-04	3.0	6.0	W1904AMD4	0.26	J
019	W19-01	5.0	8.0	W1901AMD4	0.13	U
019	W19-01	5.0	8.0	W1901AMD3	0.13	U

APPENDIX C

STATISTICAL ANALYSIS - SAS OUTPUT FILES

SAS Input Data

Sitewide Beryllium Concentrations in Soils at Moffett Field

Site	Sample Location	Depth (ft.)	Northing	Easting	Beryllium Concentration (ppm)[a]	Validated Qualifier[b,c]	Soil Type
010	W10-05	1 - 3	337187.5	1551008.7	0.83	J	CL
010	W10-05	3 - 5	337187.5	1551008.7	0.93	J	CL
010	W10-06	3 - 5	334869.4	1553189.6	1.2		FILL
010	W10-05	5 - 10	337187.5	1551008.7	0.68	J	CL
010	W10-06	5 - 10	334869.4	1553189.6	1.2		SM
010	W10-06	5 - 10	334869.4	1553189.6	1.6		FILL
011	GSB11-20	1 - 3			0.11	U	.
011	GSB11-18	1 - 3			0.11	U	.
011	GSB11-07	1 - 3			0.11	U	.
011	GSB11-14	1 - 3			0.11	U	.
011	GSB11-03	1 - 3			0.11	U	.
011	GSB11-15	1 - 3			0.11	U	.
011	GSB11-05	1 - 3			0.11	U	.
011	GSB11-10	1 - 3			0.12	U	.
011	GSB11-06	1 - 3			0.12	U	.
011	SB11-04	1 - 3			0.12	U	.

SAS Input Data

Site	Sample Location	Depth (ft.)	Northing	Easting	Beryllium Concentration (ppm)[a]	Validated Qualifier[b,c]	Soil Type
011	GSB11-09	1 - 3			0.12	U	.
011	GSB11-01	1 - 3			0.12	U	.
011	GSB11-02	1 - 3			0.12	U	.
011	SB11-06	1 - 3			0.12	U	.
011	GSB11-11	1 - 3			0.12	U	.
011	GSB11-16	1 - 3			0.12	U	.
011	GSB11-04	1 - 3			0.12	U	.
011	GSB11-17	1 - 3			0.13	U	.
011	GSB11-08	1 - 3			0.13	U	.
011	GSB11-19	1 - 3			0.14	J	.
011	GSB11-13	1 - 3			0.16	U	.
011	SB11-05	1 - 3			0.18	J	.
011	SB11-03	1 - 3			0.31	J	.
011	GSB11-12	1 - 3			0.34	J	.
011	SB11-07	1 - 3			1.4		.
011	SB11-08	1 - 3			1.5		.
011	SB11-02	1 - 3			1.6		.
011	W11-01	1 - 3	341246.4	1550374.8	4.1		SW
011	W11-02	1 - 3	341444.3	1550241.1	4.8		GM

SAS Input Data

Site	Sample Location	Depth (ft.)	Northing	Easting	Beryllium Concentration (ppm)[a]	Validated Qualifier[b,c]	Soil Type
011	SB11-01	3 - 5			1.1	J	.
011	SB11-02	3 - 5			1.3		.
011	GSB11-19	5 - 10			0.11	U	.
011	GSB11-18	5 - 10			0.11	U	.
011	SB11-04	5 - 10			0.12	U	.
011	SB11-05	5 - 10			0.12	U	.
011	SB11-03	5 - 10			0.13	U	.
011	GSB11-14	5 - 10			0.13	U	.
011	SB11-06	5 - 10			0.14	J	.
011	GSB11-16	5 - 10			0.14	U	.
011	GSB11-11	5 - 10			0.14	U	.
011	GSB11-15	5 - 10			0.14	U	.
011	GSB11-12	5 - 10			0.15	U	.
011	GSB11-10	5 - 10			0.16	U	.
011	GSB11-13	5 - 10			0.17	J	.
011	GSB11-17	5 - 10			0.17	U	.
011	SB11-07	5 - 10			1.3		.
011	SB11-08	5 - 10			1.5		.
011	W11-01	5 - 10	341246.4	1550374.8	5		SW

SAS Input Data

Site	Sample Location	Depth (ft.)	Northing	Easting	Beryllium Concentration (ppm)[a]	Validated Qualifier[b,c]	Soil Type
011	W11-02	5 - 10	341444.3	1550241.1	5.5		CH
012	SB12-04	1 - 3			0.11	U	.
012	SB12-05	1 - 3			0.11	U	.
012	SB12-01	1 - 3			0.12	U	.
012	SB12-03	1 - 3			0.12	U	.
012	SB12-10	1 - 3			0.12	U	.
012	SB12-02	1 - 3			0.13	U	.
012	SB12-11	1 - 3			0.13	U	.
012	SB12-06	1 - 3			0.13	U	.
012	SB12-12	1 - 3			0.13	U	.
012	SB12-08	1 - 3			0.13	U	.
012	SB12-09	1 - 3			0.14	U	.
012	SB12-07	1 - 3			0.14	U	.
012	W12-02	1 - 3	338270.3	1549017	1.7		.
012	W12-01	1 - 3	338009.7	1549044.6	2.6		.
012	W12-03	1 - 3	338291.6	1548912.3	2.9		.
012	SB12-02	3 - 5			0.12	U	.
012	SB12-12	3 - 5			0.12	U	.
012	SB12-03	3 - 5			0.12	U	.

SAS Input Data

Site	Sample Location	Depth (ft.)	Northing	Easting	Beryllium Concentration (ppm)[a]	Validated Qualifier[b,c]	Soil Type
012	SB12-04	3 - 5			0.12	U	.
012	SB12-01	3 - 5			0.12	U	.
012	SB12-10	3 - 5			0.12	U	.
012	SB12-05	3 - 5			0.12	U	.
012	SB12-08	3 - 5			0.13	U	.
012	SB12-11	3 - 5			0.13	U	.
012	SB12-09	3 - 5			0.13	U	.
012	SB12-01	3 - 5			0.13	U	.
012	SB12-06	3 - 5			0.13	U	.
012	SB12-07	3 - 5			0.14	U	.
012	W12-02	3 - 5	338270.3	1549017	1.4		.
012	W12-03	3 - 5	338291.6	1548912.3	2		.
012	W12-01	3 - 5	338009.7	1549044.6	2.5		.
012	SB12-03	5 - 10			0.11	U	.
012	SB12-04	5 - 10			0.11	U	.
012	SB12-05	5 - 10			0.12	U	.
012	SB12-08	5 - 10			0.12	U	.
012	SB12-07	5 - 10			0.13	U	.
012	SB12-12	5 - 10			0.13	U	.

SAS Input Data

Site	Sample Location	Depth (ft.)	Northing	Easting	Beryllium Concentration (ppm)[a]	Validated Qualifier[b,c]	Soil Type
012	SB12-10	5 - 10			0.13	U	.
012	SB12-02	5 - 10			0.13	U	.
012	SB12-06	5 - 10			0.13	U	.
012	SB12-09	5 - 10			0.14	U	.
012	SB12-11	5 - 10			0.14	U	.
012	W12-02	5 - 10	338270.3	1549017	1.3		.
012	W12-01	5 - 10	338009.7	1549044.6	2.1		.
012	W12-03	5 - 10	338291.6	1548912.3	2.6		.
013	SB13-04	1 - 3			0.11	U	.
013	SB13-02	1 - 3			0.12	U	.
013	SB13-01	1 - 3			0.13	U	.
013	SB13-03	1 - 3			0.13	U	.
013	SB13-01	5 - 10			0.12	U	.
013	SB13-03	5 - 10			0.12	U	.
013	SB13-04	5 - 10			0.13	U	.
013	SB13-02	5 - 10			0.13	U	.
014	W14-04	1 - 3	333735.9	1549948.9	0.12	U	SC
014	W14-03	1 - 3	333561.9	1549910.7	0.12	U	GM
014	W14-02	1 - 3	333682.5	1549915.5	0.13	U	CL

SAS Input Data

Site	Sample Location	Depth (ft.)	Northing	Easting	Beryllium Concentration (ppm)[a]	Validated Qualifier[b,c]	Soil Type
014	SB14-01	1 - 3	333559.7	1550068.1	0.23	J	OL
014	SB14-02	1 - 3	333605.7	1550004.6	0.68	J	CL
014	W14-05	1 - 3	333567.8	1549900.6	2.6		CL
014	W14-06	1 - 3	333732.7	1549944.3	4		CH
014	SB14-03	1 - 3	333691.7	1549917.6	4.3		OL
014	W14-01	1 - 3	333688.5	1549923.9	5.6		CL
014	W14-03	3 - 5	333561.9	1549910.7	0.13	U	CL
014	W14-04	3 - 5	333735.9	1549948.9	0.13	U	CL
014	W14-02	3 - 5	333682.5	1549915.5	0.21	J	CL
014	SB14-02	3 - 5	333605.7	1550004.6	0.46	J	CL
014	SB14-01	3 - 5	333559.7	1550068.1	0.52	J	OL
014	W14-06	3 - 5	333732.7	1549944.3	2.8		CL
014	W14-01	3 - 5	333688.5	1549923.9	2.8		CL
014	W14-05	3 - 5	333567.8	1549900.6	3.1		CL
014	SB14-03	3 - 5	333691.7	1549917.6	5.5		CL
014	W14-03	5 - 10	333561.9	1549910.7	0.13	U	CL
014	W14-04	5 - 10	333735.9	1549948.9	0.13	U	CL
014	W14-02	5 - 10	333682.5	1549915.5	0.29	J	CH
014	SB14-01	5 - 10	333559.7	1550068.1	0.41	J	CL

SAS Input Data

Site	Sample Location	Depth (ft.)	Northing	Easting	Beryllium Concentration (ppm)[a]	Validated Qualifier[b,c]	Soil Type
014	SB14-02	5 - 10	333605.7	1550004.6	0.79	J	CL
014	SB14-03	5 - 10	333691.7	1549917.6	2.6		CL
014	W14-01	5 - 10	333688.5	1549923.9	3		CL
014	W14-06	5 - 10	333732.7	1549944.3	3.4		CL
014	W14-05	5 - 10	333567.8	1549900.6	4.8		CL
019	W19-01	1 - 3	338105.4	1552444.2	0.11	U	SM
019	W19-03	1 - 3	338304.3	1552227.1	0.23	U	CL
019	W19-04	1 - 3	338292.7	1552236.2	0.93	J	GM
019	W19-02	1 - 3	337975.5	1552511.4	1.7		GM
019	SB19-02	1 - 3	337552	1552689.2	2		SC
019	SB19-04	1 - 3	338094.1	1552473.9	2		SC
019	SB19-05	1 - 3	338087.8	1552450.3	2.1		SC
019	SB19-03	1 - 3	337574.1	1552659.1	2.1		OL
019	SB19-01	1 - 3	337530.8	1552686.9	3.5		SC
019	W19-01	3 - 5	338105.4	1552444.2	0.11	U	SM
019	W19-04	3 - 5	338292.7	1552236.2	0.23	J	GC
019	W19-02	3 - 5	337975.5	1552511.4	1.2		GM
019	SB19-03	3 - 5	337574.1	1552659.1	2.3		OL
019	SB19-01	3 - 5	337530.8	1552686.9	2.3		OH

SAS Input Data

Site	Sample Location	Depth (ft.)	Northing	Easting	Beryllium Concentration (ppm)[a]	Validated Qualifier[b,c]	Soil Type
019	SB19-04	3 - 5	338094.1	1552473.9	2.7		SC
019	W19-03	3 - 5	338304.3	1552227.1	2.9		CL
019	SB19-02	3 - 5	337552	1552689.2	3		OL
019	W19-04	5 - 10	338292.7	1552236.2	0.12	U	CL
019	W19-01	5 - 10	338105.4	1552444.2	0.13	U	CL
019	W19-03	5 - 10	338304.3	1552227.1	0.94	J	CL
019	W19-02	5 - 10	337975.5	1552511.4	1.4		CL
019	SB19-03	5 - 10	337574.1	1552659.1	2.3		CL
019	SB19-02	5 - 10	337552	1552689.2	2.4		CL
019	SB19-01	5 - 10	337530.8	1552686.9	2.7		CL
019	SB19-05	5 - 10	338087.8	1552450.3	3.2		OL
019	SB19-04	5 - 10	338094.1	1552473.9	3.2		CL
003	W03-13	1 - 3	340320.3	1552252.2	0.11	U	CL
003	SB03-08	1 - 3			0.43	J	.
003	SB03-09	1 - 3			0.48	J	.
003	W03-19	1 - 3	339792.7	1551972.81	0.53	J	CL
003	W03-22	1 - 3	340923.8	1554609.5	0.55	J	GM
003	W03-24	1 - 3	340332.7	1552262.22	0.76	J	CL
003	W03-21	1 - 3	339709.84	1552577.67	0.99	J	CH

SAS Input Data

Site	Sample Location	Depth (ft.)	Northing	Easting	Beryllium Concentration (ppm)[a]	Validated Qualifier[b,c]	Soil Type
003	W03-14	1 - 3	339665.7	1552414.4	1.5		CL
003	SB03-05	1 - 3			1.6		.
003	SB03-06	1 - 3			1.68		.
003	W03-23	1 - 3	341149.5	1552892.9	1.8		CL
003	W03-12	1 - 3	341114.2	1552411	1.8		CL
003	W03-15	1 - 3	340303.5	1552603	1.8		CL
003	W03-16	1 - 3	340925.4	1552823.9	2.1		CL
003	SB03-07	1 - 3			2.3		.
003	SB03-03-P1	1 - 3	340776	1552723	2.9		.
003	SB03-01-P1	1 - 3	341196	1552852	3.4		.
003	SB03-01	1 - 3	339670	1553790	3.8		CH
003	SB03-03	1 - 3	339815	1553440	4.3		CH
003	SB03-04	1 - 3			4.4		.
003	SB03-02-P1	1 - 3	340988	1552770	6.5		.
003	W03-13	3 - 5	340320.3	1552252.2	0.13	U	CL
003	W03-24	3 - 5	340332.7	1552262.22	0.38	J	OL
003	W03-22	3 - 5	340923.8	1554609.5	0.38	J	CL
003	W03-19	3 - 5	339792.7	1551972.81	0.5	J	CL
003	W03-21	3 - 5	339709.84	1552577.67	0.5	J	CL

SAS Input Data

Site	Sample Location	Depth (ft.)	Northing	Easting	Beryllium Concentration (ppm)[a]	Validated Qualifier[b,c]	Soil Type
003	W03-20	3 - 5	339867.35	1552379.7	0.58	J	CL
003	W03-14	3 - 5	339665.7	1552414.4	1.2		SM
003	W03-15	3 - 5	340303.5	1552603	1.3		CL
003	W03-12	3 - 5	341114.2	1552411	1.6		CL
003	W03-23	3 - 5	341149.5	1552892.9	1.9		CL
003	SB03-07	3 - 5			2		.
003	SB03-01-P1	3 - 5	341196	1552852	2.7		CL
003	W03-16	3 - 5	340925.4	1552823.9	2.7		.
003	SB03-02	3 - 5	339690	1553580	3.8		CL
003	SB03-01	3 - 5	339670	1553790	4		CH
003	SB03-03	3 - 5	339815	1553440	4.1		CH
003	SB03-04	3 - 5			4.4		.
003	W03-13	5 - 10	340320.3	1552252.2	0.13	U	CL
003	W03-20	5 - 10	339867.35	1552379.7	0.33	J	CL
003	W03-19	5 - 10	339792.7	1551972.81	0.34	J	CL
003	W03-21	5 - 10	339709.84	1552577.67	0.51	J	CL
003	W03-24	5 - 10	340332.7	1552262.22	0.63	J	CH
003	W03-20	5 - 10	339867.35	1552379.7	0.85	J	CL
003	W03-14	5 - 10	339665.7	1552414.4	1.2		CL

SAS Input Data

Site	Sample Location	Depth (ft.)	Northing	Easting	Beryllium Concentration (ppm)[a]	Validated Qualifier[b,c]	Soil Type
003	W03-23	5 - 10	341149.5	1552892.9	1.8		ML
003	W03-12	5 - 10	341114.2	1552411	1.9		CL
003	W03-15	5 - 10	340303.5	1552603	2.03		CL
003	W03-22	5 - 10	340923.8	1554609.5	2.6		OL
003	SB03-01	5 - 10	339670	1553790	4.4		CH
003	SB03-02	5 - 10	339690	1553580	4.7		CL
003	SB03-03	5 - 10	339815	1553440	5		CH
003	SB03-02	5 - 10	339690	1553580	5.3		CL
004	SB04-04	1 - 3	338640	1552300	0.25	U	ML
004	SB04-03	1 - 3	338570	1552320	0.27	J	ML
004	SB04-01	1 - 3	338660	1552340	0.39	J	MH
004	W04-16	1 - 3	338808.72	1552608.81	0.43	J	SP
004	SB04-04X	1 - 3	338670	1552280	0.59	J	ML
004	SB04-02	1 - 3	338570	1552375	0.67	J	ML
004	W04-09	1 - 3	339427.4	1552031.7	0.7	J	CL
004	W04-07	1 - 3	339015.3	1552299.7	1.3		SM
004	W04-12	1 - 3	339049.24	1551866.92	1.5		CH
004	W04-13	1 - 3	339021.97	1552402.57	1.6	J	CH
004	W04-08	1 - 3	338989.5	1552975.3	1.6		CH

SAS Input Data

Site	Sample Location	Depth (ft.)	Northing	Easting	Beryllium Concentration (ppm)[a]	Validated Qualifier[b,c]	Soil Type
004	W04-11-P1	1 - 3	339000.2	1552963.7	1.8		CL
004	W04-11	1 - 3	338992.85	1552740.8	2.1		CL
004	SB04-04	3 - 5	338640	1552300	0.25	U	ML
004	SB04-01	3 - 5	338660	1552340	0.27	J	ML
004	SB04-03	3 - 5	338570	1552320	0.35	J	CL
004	W04-16	3 - 5	338808.72	1552608.81	0.4	J	ML
004	SB04-02	3 - 5	338570	1552375	0.42	J	ML
004	W04-07	3 - 5	339015.3	1552299.7	0.84	J	SC
004	W04-12	3 - 5	339049.24	1551866.92	0.96	J	ML
004	SB04-04X	3 - 5	338670	1552280	1.1	J	ML
004	W04-09	3 - 5	339427.4	1552031.7	1.2		GW
004	W04-13	3 - 5	339021.97	1552402.57	1.2	J	CL
004	W04-11	3 - 5	338992.85	1552740.8	1.3		CL
004	W04-08	3 - 5	338989.5	1552975.3	1.7		CH
004	W04-15	3 - 5	339200.21	1552406.47	2.1		CL
004	W04-11-P1	3 - 5	339000.2	1552963.7	2.3		CL
004	SB04-01	5 - 10	338660	1552340	0.23	J	MH
004	SB04-04	5 - 10	338640	1552300	0.23	U	CL
004	W04-16	5 - 10	338808.72	1552608.81	0.33	J	ML

SAS Input Data

Site	Sample Location	Depth (ft.)	Northing	Easting	Beryllium Concentration (ppm)[a]	Validated Qualifier[b,c]	Soil Type
004	SB04-02	5 - 10	338570	1552375	0.58	J	ML
004	W04-09	5 - 10	339427.4	1552031.7	0.69	J	CL
004	SB04-04X	5 - 10	338670	1552280	0.7	J	CH
004	W04-07	5 - 10	339015.3	1552299.7	0.85	J	CL
004	W04-08	5 - 10	338989.5	1552975.3	1.2		GW
004	W04-13	5 - 10	339021.97	1552402.57	1.2	J	CH
004	W04-12	5 - 10	339049.24	1551866.92	1.3		SW
004	W04-11	5 - 10	338992.85	1552740.8	1.8		CL
004	W04-11-P1	5 - 10	339000.2	1552963.7	2.2		CL
004	W04-15	5 - 10	339200.21	1552406.47	2.5		CL
005	SB05-03	1 - 3	338455	1553300	0.23	U	CH
005	SB05-04	1 - 3	338370	1553320	0.25	U	CH
005	W05-09	1 - 3	336107.9	1553067.7	0.52	J	OL
005	W05-27	1 - 3	338369.68	1553462.6	0.65	J	CH
005	W05-11	1 - 3	337462.23	1553483.53	0.69	J	OL
005	W05-23	1 - 3	338886.96	1553236.46	0.71	J	CH
005	W05-21	1 - 3	338450.7	1553309.2	0.73	J	CH
005	W05-08	1 - 3	337193.8	1553499.5	0.74	J	GM
005	SB05-30	1 - 3	337706.66	1553492.82	0.79	J	CL

SAS Input Data

Site	Sample Location	Depth (ft.)	Northing	Easting	Beryllium Concentration (ppm)[a]	Validated Qualifier[b,c]	Soil Type
005	SB05-05	1 - 3	338265	1553425	0.98	J	CH
005	SB05-31	1 - 3	337718.8	1553646.99	1.1	J	CL
005	SB05-09	1 - 3	338135	1553430	1.1	J	CH
005	SB08	1 - 3	338130	1553495	1.1	J	CH
005	W05-25	1 - 3	339046.26	1553229.4	1.2	J	CH
005	FP05-04	1 - 3	336682.34	1553149.86	1.2	J	CH
005	P05-03	1 - 3	336652	1553370	1.2	J	CH
005	W05-19	1 - 3	336583	1553093.2	1.3		OH
005	SB05-07	1 - 3	338210	1553490	1.4		CL
005	W05-06	1 - 3	337751.8	1553628.1	1.4		CH
005	SB05-32	1 - 3	338183.26	1553685.87	1.5		CL
005	SB05-13	1 - 3	338055	1553450	1.5		CH
005	SB05-25X	1 - 3	336868	1553558	1.9		CH
005	SB05-02	1 - 3	338775	1553255	1.9		CH
005	SB05-25	1 - 3	336865.7	1553546.11	2.1		OL
005	W05-05	1 - 3	338477.9	1553704.9	2.1		CL
005	W05-04	1 - 3	338498.7	1553744.2	2.1		CH
005	SB05-11	1 - 3	338084.41	1553344.15	2.2		CH
005	SB05-12	1 - 3	338040	1553400	2.2		

SAS Input Data

Site	Sample Location	Depth (ft.)	Northing	Easting	Beryllium Concentration (ppm)[a]	Validated Qualifier[b,c]	Soil Type
005	W05-14	1 - 3	338214.1	1553576.2	2.4		CL
005	W05-10	1 - 3	337143.2	1553410.7	2.7		OH
005	W05-17	1 - 3	336692.9	1553136.6	2.9		OH
005	SB05-27	1 - 3	337713.84	1553493.96	2.9	J	.
005	W05-18	1 - 3	336525.1	1553246.1	3.1		OH
005	SB05-22	1 - 3	337170	1553420	3.1		ML
005	SB05-26	1 - 3	336927.54	1553375.48	3.3		.
005	FP05-06	1 - 3	336494.58	1553258.6	3.9	J	CL
005	W05-07	1 - 3	336916.8	1553377.6	3.9		CL
005	SB05-01	1 - 3	338890	1553230	4		CH
005	W05-15	1 - 3	337958.3	1553451.5	5.8		OH
005	W05-16	1 - 3	336630.8	1553269.6	5.8		GM
005	SB05-03	3 - 5	338455	1553300	0.22	U	SM
005	SB05-04	3 - 5	338370	1553320	0.22	U	SM
005	SB05-21	3 - 5	337210	1553470	0.23	U	CH
005	W05-09	3 - 5	336107.9	1553067.7	0.31	J	OL
005	SB05-20	3 - 5	337203.58	1553502.07	0.35	J	.
005	SB05-06	3 - 5	338230.27	1553450.72	0.37	J	.
005	SB05-30	3 - 5	337706.66	1553492.82	0.41	J	CL

SAS Input Data

Site	Sample Location	Depth (ft.)	Northing	Easting	Beryllium Concentration (ppm)[a]	Validated Qualifier[b,c]	Soil Type
005	W05-21	3 - 5	338450.7	1553309.2	0.45	J	CL
005	W05-27	3 - 5	338369.68	1553462.6	0.48	J	CH
005	W05-23	3 - 5	338886.96	1553236.46	0.54	J	SM
005	W05-06	3 - 5	337751.8	1553628.1	0.58	J	CL
005	W05-11	3 - 5	337462.23	1553483.53	0.63	J	OL
005	SB05-23	3 - 5	337165	1553480	0.69	J	CH
005	SB05-05	3 - 5	338265	1553425	0.75	J	GW
005	P05-03	3 - 5	336652	1553370	0.84	J	CH
005	SB05-07	3 - 5	338210	1553490	0.85	J	CL
005	SB05-08	3 - 5	338170	1553400	0.93	J	CH
005	W05-10	3 - 5	337143.2	1553410.7	0.98	J	OH
005	SB05-31	3 - 5	337718.8	1553646.99	0.98	J	CL
005	W05-08	3 - 5	337193.8	1553499.5	1	J	CL
005	SB05-32	3 - 5	338183.26	1553685.87	1.2		CL
005	SB05-09	3 - 5	338135	1553430	1.2		OH
005	W05-19	3 - 5	336583	1553093.2	1.2		CL
005	SB08	3 - 5	338130	1553495	1.2	J	CH
005	P05-06	3 - 5	336553	1553126	1.2	J	CH
005	W05-25	3 - 5	339046.26	1553229.4	1.4	J	ML

SAS Input Data

Site	Sample Location	Depth (ft.)	Northing	Easting	Beryllium Concentration (ppm)[a]	Validated Qualifier[b,c]	Soil Type
005	SB05-12	3 - 5	338040	1553400	1.4		CL
005	SB05-11	3 - 5	338084.41	1553344.15	1.5		CH
005	SB05-13	3 - 5	338055	1553450	1.5		.
005	SB05-10	3 - 5	338110	1553470	1.6		CL
005	SB05-24	3 - 5	336910	1553550	1.6		CH
005	SB05-25	3 - 5	336865.7	1553546.11	1.6		CH
005	W05-05	3 - 5	338477.9	1553704.9	1.8		ML
005	SB05-25X	3 - 5	336868	1553558	1.8		CL
005	W05-18	3 - 5	336525.1	1553246.1	2		CL
005	W05-04	3 - 5	338498.7	1553744.2	2.3		CH
005	SB05-26	3 - 5	336927.54	1553375.48	2.3		.
005	W05-14	3 - 5	338214.1	1553576.2	2.8		CL
005	FP05-06	3 - 5	336494.58	1553258.6	2.9	J	CL
005	SB05-02	3 - 5	338775	1553255	3		ML
005	SB05-22	3 - 5	337170	1553420	3		ML
005	W05-17	3 - 5	336692.9	1553136.6	3.2		OH
005	SB05-27	3 - 5	337713.84	1553493.96	3.5	J	.
005	W05-07	3 - 5	336916.8	1553377.6	3.8		CL
005	SB05-01	3 - 5	338890	1553230	3.8		CL

SAS Input Data

Site	Sample Location	Depth (ft.)	Northing	Easting	Beryllium Concentration (ppm)[a]	Validated Qualifier[b,c]	Soil Type
005	W05-15	3 - 5	337958.3	1553451.5	4.8		CL
005	W05-16	3 - 5	336630.8	1553269.6	4.9		CL
005	W05-23	5 - 10	338886.96	1553236.46	0.23	J	SM
005	SB05-04	5 - 10	338370	1553320	0.23	U	ML
005	SB05-03	5 - 10	338455	1553300	0.24	U	CL
005	SB05-23	5 - 10	337165	1553480	0.24	U	CH
005	SB05-30	5 - 10	337706.66	1553492.82	0.31	J	SC
005	W05-09	5 - 10	336107.9	1553067.7	0.32	J	CL
005	SB05-08	5 - 10	338170	1553400	0.39	J	CL
005	SB05-08	5 - 10	338170	1553400	0.46	J	CL
005	W05-27	5 - 10	338369.68	1553462.6	0.48	J	GW
005	W05-21	5 - 10	338450.7	1553309.2	0.53	J	CL
005	SB05-06	5 - 10	338230.27	1553450.72	0.61	J	.
005	SB05-21	5 - 10	337210	1553470	0.62	J	SM
005	SB05-06	5 - 10	338230.27	1553450.72	0.63	J	.
005	SB05-20	5 - 10	337203.58	1553502.07	0.64	J	CL
005	W05-19	5 - 10	336583	1553093.2	0.64	J	.
005	W05-11	5 - 10	337462.23	1553483.53	0.67	J	ML
005	P05-03	5 - 10	336652	1553370	0.76	J	CL

SAS Input Data

Site	Sample Location	Depth (ft.)	Northing	Easting	Beryllium Concentration (ppm)[a]	Validated Qualifier[b,c]	Soil Type
005	W05-06	5 - 10	337751.8	1553628.1	0.77	J	CL
005	SB05-31	5 - 10	337718.8	1553646.99	0.82	J	SC
005	W05-08	5 - 10	337193.8	1553499.5	0.84	J	CL
005	SB05-32	5 - 10	338183.26	1553685.87	0.89	J	SC
005	FP05-04	5 - 10	336682.34	1553149.86	0.92	J	CL
005	SB05-11	5 - 10	338084.41	1553344.15	1		
005	W05-25	5 - 10	339046.26	1553229.4	1.2	J	CH
005	P05-06	5 - 10	336553	1553126	1.3	J	ML
005	SB05-10	5 - 10	338110	1553470	1.3		CL
005	SB05-13	5 - 10	338055	1553450	1.6		CL
005	SB05-05	5 - 10	338265	1553425	1.7		GW
005	W05-05	5 - 10	338477.9	1553704.9	1.8		SM
005	SB05-12	5 - 10	338040	1553400	1.8		CL
005	SB05-25	5 - 10	336865.7	1553546.11	1.8		CH
005	W05-10	5 - 10	337143.2	1553410.7	1.9		CL
005	SB05-24	5 - 10	336910	1553550	2		ML
005	SB05-09	5 - 10	338135	1553430	2		CL
005	W05-18	5 - 10	336525.1	1553246.1	2		CL
005	SB05-25X	5 - 10	336868	1553558	2.2		CL

SAS Input Data

Site	Sample Location	Depth (ft.)	Northing	Easting	Beryllium Concentration (ppm)[a]	Validated Qualifier[b,c]	Soil Type
005	W05-04	5 - 10	338498.7	1553744.2	2.4		CH
005	W05-14	5 - 10	338214.1	1553576.2	2.6		CL
005	FP05-06	5 - 10	336494.58	1553258.6	2.8	J	ML
005	SB05-02	5 - 10	338775	1553255	3		SW
005	SB05-01	5 - 10	338890	1553230	3		CL
005	W05-07	5 - 10	336916.8	1553377.6	3.4		CL
005	W05-17	5 - 10	336692.9	1553136.6	3.4		CL
005	SB05-27	5 - 10	337713.84	1553493.96	3.7	J	.
005	W05-16	5 - 10	336630.8	1553269.6	4.4		GC
005	W05-15	5 - 10	337958.3	1553451.5	5.7		CL
006	W06-08	1 - 3	338008.54	1552975.14	0.41	J	ML
006	W06-09	1 - 3	338045.98	1553072.14	0.6	J	CH
006	W06-10	1 - 3	337717.63	1553021.55	0.84	J	CH
006	W06-10	3 - 5	337717.63	1553021.55	0.53	J	CH
006	W06-09	3 - 5	338045.98	1553072.14	0.69	J	CH
006	W06-09	5 - 10	338045.98	1553072.14	0.46	J	SC
006	W06-10	5 - 10	337717.63	1553021.55	0.6	J	CL
006	W06-08	5 - 10	338008.54	1552975.14	0.63	J	ML
007	SB07-01	1 - 3			0.11	U	.

SAS Input Data

Site	Sample Location	Depth (ft.)	Northing	Easting	Beryllium Concentration (ppm)[a]	Validated Qualifier[b,c]	Soil Type
007	W07-16	1 - 3	336745.1	1551965.7	0.12	U	CL
007	SB07-02	1 - 3			0.14	U	.
007	W07-17	1 - 3	338404.47	1552398.36	0.52	J	SC
007	W07-19	1 - 3	337991.9	1552000.7	0.97		FILL
007	W07-18	1 - 3	336879.2	1552435.3	1.4		CL
007	W07-21	1 - 3	337678.1	1551472.9	2.1		CL
007	W07-20	1 - 3	337581.6	1552681.1	3		CL
007	SB07-03	3 - 5			0.11	U	.
007	SB07-02	3 - 5			0.13	U	SC
007	W07-16	3 - 5	336745.1	1551965.7	0.13	U	.
007	SB07-01	3 - 5			0.13	U	.
007	W07-17	3 - 5	338404.47	1552398.36	1.1	J	CH
007	W07-21	3 - 5	337678.1	1551472.9	1.8		CL
007	W07-19	3 - 5	337991.9	1552000.7	1.9		SC
007	W07-18	3 - 5	336879.2	1552435.3	2.3		CL
007	W07-20	3 - 5	337581.6	1552681.1	3.3		CL
007	W07-16	5 - 10	336745.1	1551965.7	0.12	U	CL
007	SB07-02	5 - 10			0.12	U	.
007	SB07-03	5 - 10			0.13	U	.

SAS Input Data

Site	Sample Location	Depth (ft.)	Northing	Easting	Beryllium Concentration (ppm)[a]	Validated Qualifier[b,c]	Soil Type
007	SB07-01	5 - 10			0.14	U	.
007	W07-17	5 - 10	338404.47	1552398.36	0.6	J	ML
007	W07-21	5 - 10	337678.1	1551472.9	1.7		CL
007	W07-18	5 - 10	336879.2	1552435.3	1.8		CL
007	W07-19	5 - 10	337991.9	1552000.7	2		SC
007	W07-20	5 - 10	337581.6	1552681.1	3.4		CL
008	SB08-06	1 - 3			0.11	U	.
008	SB08-04	1 - 3			0.11	U	.
008	SB08-13	1 - 3			0.11	U	.
008	SB08-11	1 - 3			0.12	U	.
008	SB08-10	1 - 3			0.12	U	.
008	SB08-09	1 - 3			0.13	U	.
008	SB08-07	1 - 3			0.13	U	.
008	SB08-12	1 - 3			0.13	U	.
008	SB08-01	1 - 3			0.13	U	.
008	SB08-02	1 - 3			0.13	U	.
008	SB08-08	1 - 3	338890	1547870	0.14	U	.
008	SB08-05	1 - 3			0.14	U	.
008	SB08-03	1 - 3			0.14	U	.

SAS Input Data

Site	Sample Location	Depth (ft.)	Northing	Easting	Beryllium Concentration (ppm)[a]	Validated Qualifier[b,c]	Soil Type
008	W08-12	1 - 3	339063.5	1548030.98	1.5		CL
008	W08-02	1 - 3	338964.9	1547887	2.4		CL
008	W08-10	1 - 3	339031.85	1547700.15	2.6		CL
008	W08-08	1 - 3	339690.55	1547836.52	2.8		CL
008	W08-06	1 - 3	338986.4	1547845.8	3.1		GM
008	W08-05	1 - 3	339162.4	1547850.4	3.3		ML
008	W08-04	1 - 3	338701.9	1547853.3	3.6		SM
008	W08-11	1 - 3	338711.99	1547850.94	3.9		CL
008	SB08-02	3 - 5			0.12	U	.
008	SB08-01	3 - 5			0.12	U	.
008	SB08-09	3 - 5			0.13	U	.
008	SB08-10	3 - 5			0.13	U	.
008	SB08-12	3 - 5			0.13	U	.
008	SB08-11	3 - 5			0.13	U	.
008	SB08-13	3 - 5			0.14	U	.
008	SB08-07	3 - 5			0.14	U	.
008	SB08-04	3 - 5			0.14	U	.
008	SB08-08	3 - 5	338890	1547870	0.14	U	.
008	SB08-05	3 - 5			0.15	U	.

SAS Input Data

Site	Sample Location	Depth (ft.)	Northing	Easting	Beryllium Concentration (ppm)[a]	Validated Qualifier[b,c]	Soil Type
008	SB08-06	3 - 5			0.15	U	.
008	SB08-03	3 - 5			0.15	U	.
008	W08-10	3 - 5	339031.85	1547700.15	2.4		CL
008	W08-12	3 - 5	339063.5	1548030.98	2.7		CL
008	W08-08	3 - 5	339690.55	1547836.52	3.4		CL
008	W08-02	3 - 5	338964.9	1547887	3.6		GM
008	W08-06	3 - 5	338986.4	1547845.8	3.6		CL
008	W08-11	3 - 5	338711.99	1547850.94	4.2		ML
008	W08-05	3 - 5	339162.4	1547850.4	4.2		CL
008	W08-04	3 - 5	338701.9	1547853.3	4.8		ML
008	W08-08	5 - 10	339690.55	1547836.52	1.9		CL
008	W08-12	5 - 10	339063.5	1548030.98	2.5		CL
008	W08-10	5 - 10	339031.85	1547700.15	2.8		CL
008	W08-06	5 - 10	338986.4	1547845.8	3.4		ML
008	W08-02	5 - 10	338964.9	1547887	3.7		CL
008	W08-11	5 - 10	338711.99	1547850.94	3.7		CL
008	W08-05	5 - 10	339162.4	1547850.4	3.9		ML
008	W08-04	5 - 10	338701.9	1547853.3	3.9		CH
009	W09-27	1 - 3	336676.4	1548653.8	0.13	U	CL

SAS Input Data

Site	Sample Location	Depth (ft.)	Northing	Easting	Beryllium Concentration (ppm)[a]	Validated Qualifier[b,c]	Soil Type
009	W09-07	1 - 3	336158.5	1548028.6	0.14	U	OH
009	W09-04	1 - 3	336979.6	1548121.6	0.14	U	.
009	W09-05	1 - 3	336993.2	1548115.8	0.19	U	.
009	W09-28	1 - 3	336206.41	1548712.45	0.2	U	CL
009	W09-18	1 - 3	335505.12	1548890.15	0.22	U	SW
009	W09-37	1 - 3	335249.59	1548711.82	0.23	U	CL
009	W09-03	1 - 3	335811.3	1548305.4	0.23	J	CL
009	W09-20	1 - 3	335861.48	1548690.1	0.23	U	CL
009	W09-24	1 - 3	337075.15	1548683.84	0.24	J	ML
009	W09-35	1 - 3	335856.29	1548691.8	0.24	U	ML
009	W09-19	1 - 3	335365.71	1548255.06	0.24	U	CL
009	W09-42	1 - 3	335523.46	1549103.75	0.25	U	ML
009	W09-22	1 - 3	336473.76	1548431.42	0.25	U	ML
009	W09-29	1 - 3	335518.1	1549108.14	0.25		ML
009	W09-21	1 - 3	335793.61	1548937.53	0.25	U	GM
009	W09-17	1 - 3	335366.89	1548750.05	0.25	U	CL
009	W09-38	1 - 3	335113.06	1548440.08	0.26	U	CL
009	W09-41	1 - 3	335126.96	1548434.9	0.26	U	SP
009	FP09-01	1 - 3	336406.46	1548458.23	0.26	U	CL

SAS Input Data

Site	Sample Location	Depth (ft.)	Northing	Easting	Beryllium Concentration (ppm)[a]	Validated Qualifier[b,c]	Soil Type
009	W09-33	1 - 3	335891.48	1548383.75	0.26	U	CL
009	W09-30	1 - 3	335290.39	1549129.56	0.26	U	CL
009	W09-16	1 - 3	335175.44	1548195.81	0.31	J	ML
009	W09-08	1 - 3	335608.86	1548256.7	0.34	J	ML
009	W09-43	1 - 3	336761.07	1548766.55	0.38	J	SM
009	W09-40	1 - 3	335616.02	1548255.33	0.41	J	GC
009	W09-36	1 - 3	335616.35	1548454.03	0.56	J	CL
009	W09-11	1 - 3	337083.72	1548680.28	0.58	J	CL
009	W09-34	1 - 3	335938.73	1548061.5	0.61	J	CH
009	W09-26	1 - 3	336802.82	1548594.99	0.64	J	CL
009	W09-09	1 - 3	336287.26	1548050.01	0.69	J	OL
009	W09-15	1 - 3	335826	1548606	0.73	J	CL
009	W09-25	1 - 3	336561.06	1548008.5	0.84	J	CL
009	W09-12	1 - 3	335365.22	1548739.42	0.91	J	OH
009	W09-06	1 - 3	336389.7	1548272.7	1	U	CL
009	W09-13	1 - 3	336152.5	1548014.9	1	U	CL
009	W09-23	1 - 3	336186.42	1548622	1.1	J	CL
009	W09-14	1 - 3	335498.3	1548647.7	1.2		CL
009	W09-39	1 - 3	336569.08	1548004.59	1.3	J	ML

SAS Input Data

Site	Sample Location	Depth (ft.)	Northing	Easting	Beryllium Concentration (ppm)[a]	Validated Qualifier[b,c]	Soil Type
009	W09-31	1 - 3	336342.59	1548599.39	1.6		CL
009	FP09-02	1 - 3	336284.62	1548057.5	2		.
009	W09-10	1 - 3	336991.89	1548308.9	2.5		ML
009	W09-04	3 - 5	336979.6	1548121.6	0.13	U	.
009	W09-05	3 - 5	336993.2	1548115.8	0.13	U	.
009	W09-27	3 - 5	336676.4	1548653.8	0.14	U	ML
009	W09-07	3 - 5	336158.5	1548028.6	0.14	U	CL
009	W09-20	3 - 5	335861.48	1548690.1	0.19	U	SC
009	W09-19	3 - 5	335365.71	1548255.06	0.22	U	ML
009	W09-28	3 - 5	336206.41	1548712.45	0.22	U	SW
009	W09-18	3 - 5	335505.12	1548890.15	0.22	U	ML
009	W09-15	3 - 5	335826	1548606	0.22	J	CL
009	W09-35	3 - 5	335856.29	1548691.8	0.22	U	CL
009	W09-21	3 - 5	335793.61	1548937.53	0.23	U	CL
009	W09-17	3 - 5	335366.89	1548750.05	0.24	U	CL
009	W09-38	3 - 5	335113.06	1548440.08	0.24	U	ML
009	W09-08	3 - 5	335608.86	1548256.7	0.24	J	ML
009	W09-30	3 - 5	335290.39	1549129.56	0.24	U	CL
009	FP09-01	3 - 5	336406.46	1548458.23	0.24	U	CL

SAS Input Data

Site	Sample Location	Depth (ft.)	Northing	Easting	Beryllium Concentration (ppm)[a]	Validated Qualifier[b,c]	Soil Type
009	W09-37	3 - 5	335249.59	1548711.82	0.24	U	CL
009	W09-42	3 - 5	335523.46	1549103.75	0.25	U	ML
009	W09-29	3 - 5	335518.1	1549108.14	0.25	U	CL
009	W09-33	3 - 5	335891.48	1548383.75	0.25	U	CL
009	W09-41	3 - 5	335126.96	1548434.9	0.26	U	SM
009	W09-26	3 - 5	336802.82	1548594.99	0.29	J	CL
009	W09-34	3 - 5	335938.73	1548061.5	0.3	J	CH
009	W09-36	3 - 5	335616.35	1548454.03	0.32	J	CL
009	W09-43	3 - 5	336761.07	1548766.55	0.32	J	CH
009	W09-24	3 - 5	337075.15	1548683.84	0.35	J	CL
009	W09-25	3 - 5	336561.06	1548008.5	0.47	J	CL
009	W09-03	3 - 5	335811.3	1548305.4	0.48	J	CL
009	W09-12	3 - 5	335365.22	1548739.42	0.54	J	CL
009	W09-22	3 - 5	336473.76	1548431.42	0.55	J	CL
009	W09-40	3 - 5	335616.02	1548255.33	0.63	J	CL
009	W09-11	3 - 5	337083.72	1548680.28	0.67	J	ML
009	W09-23	3 - 5	336186.42	1548622	0.7	J	ML
009	W09-16	3 - 5	335175.44	1548195.81	0.71	J	ML
009	W09-14	3 - 5	335498.3	1548647.7	0.73	J	CL

SAS Input Data

Site	Sample Location	Depth (ft.)	Northing	Easting	Beryllium Concentration (ppm)[a]	Validated Qualifier[b,c]	Soil Type
009	W09-31	3 - 5	336342.59	1548599.39	0.87	J	CL
009	W09-13	3 - 5	336152.5	1548014.9	1	U	CL
009	W09-06	3 - 5	336389.7	1548272.7	1	U	CL
009	W09-39	3 - 5	336569.08	1548004.59	1.1	J	ML
009	W09-09	3 - 5	336287.26	1548050.01	1.3	J	OL
009	FP09-02	3 - 5	336284.62	1548057.5	2.5		.
009	W09-10	3 - 5	336991.89	1548308.9	2.9		CL
009	W09-07	5 - 10	336158.5	1548028.6	0.11	U	CL
009	W09-05	5 - 10	336993.2	1548115.8	0.11	U	.
009	W09-27	5 - 10	336676.4	1548653.8	0.12	U	GW
009	W09-04	5 - 10	336979.6	1548121.6	0.13	U	.
009	W09-15	5 - 10	335826	1548606	0.2	J	SP
009	W09-18	5 - 10	335505.12	1548890.15	0.21	U	SP
009	W09-38	5 - 10	335113.06	1548440.08	0.22	U	SC
009	W09-37	5 - 10	335249.59	1548711.82	0.22	U	SP
009	W09-20	5 - 10	335861.48	1548690.1	0.22	U	ML
009	W09-35	5 - 10	335856.29	1548691.8	0.22	U	SC
009	W09-19	5 - 10	335365.71	1548255.06	0.23	U	OH
009	W09-17	5 - 10	335366.89	1548750.05	0.23	U	ML

SAS Input Data

Site	Sample Location	Depth (ft.)	Northing	Easting	Beryllium Concentration (ppm)[a]	Validated Qualifier[b,c]	Soil Type
009	W09-41	5 - 10	335126.96	1548434.9	0.23	U	CL
009	W09-42	5 - 10	335523.46	1549103.75	0.24	U	ML
009	W09-33	5 - 10	335891.48	1548383.75	0.24	U	CL
009	W09-30	5 - 10	335290.39	1549129.56	0.25	U	CL
009	W09-29	5 - 10	335518.1	1549108.14	0.25	U	CL
009	W09-08	5 - 10	335608.86	1548256.7	0.27	J	ML
009	W09-28	5 - 10	336206.41	1548712.45	0.29	J	ML
009	W09-11	5 - 10	337083.72	1548680.28	0.33	J	ML
009	W09-21	5 - 10	335793.61	1548937.53	0.34	J	CL
009	W09-34	5 - 10	335938.73	1548061.5	0.36	J	CL
009	W09-26	5 - 10	336802.82	1548594.99	0.36	J	CH
009	W09-22	5 - 10	336473.76	1548431.42	0.38	J	CL
009	FP09-01	5 - 10	336406.46	1548458.23	0.42	U	CL
009	W09-40	5 - 10	335616.02	1548255.33	0.48	J	ML
009	W09-43	5 - 10	336761.07	1548766.55	0.48	J	GW
009	W09-36	5 - 10	335616.35	1548454.03	0.48	J	CL
009	W09-25	5 - 10	336561.06	1548008.5	0.51	J	CL
009	W09-14	5 - 10	335498.3	1548647.7	0.53	J	SP
009	W09-03	5 - 10	335811.3	1548305.4	0.56	J	CL

SAS Input Data

Site	Sample Location	Depth (ft.)	Northing	Easting	Beryllium Concentration (ppm)[a]	Validated Qualifier[b,c]	Soil Type
009	W09-24	5 - 10	337075.15	1548683.84	0.57	J	CL
009	W09-09	5 - 10	336287.26	1548050.01	0.67	J	ML
009	W09-16	5 - 10	335175.44	1548195.81	0.71	J	ML
009	W09-12	5 - 10	335365.22	1548739.42	0.72	J	CL
009	W09-31	5 - 10	336342.59	1548599.39	0.97	J	CL
009	W09-23	5 - 10	336186.42	1548622	0.98		SW
009	W09-06	5 - 10	336389.7	1548272.7	1	U	ML
009	W09-13	5 - 10	336152.5	1548014.9	1	U	CL
009	W09-39	5 - 10	336569.08	1548004.59	1.7		ML
009	W09-10	5 - 10	336991.89	1548308.9	2.1		ML
009	FP09-02	5 - 10	336284.62	1548057.5	2.4		

[a] (ppm) - Parts per Million (mg/kg)
[b] J - Estimated Concentratation Value
[c] U - Analzed for but Not Detected

SITEWIDE BERYLLIUM CONCENTRATIONS AT MOFFETT FIELD
12:50 Wednesday, September 15, 1993

OBS	SITE	DEPTH	BECONC	SOILTYPE	BECON	SOILTYP
1	SITE10	1 - 3	0.830	CL	-0.08092	CLAY
2	SITE10	3 - 5	0.930	CL	-0.03152	CLAY
3	SITE10	3 - 5	1.200	FILL	0.07918	CLAY
4	SITE10	5 - 10	0.680	CL	-0.16749	CLAY
5	SITE10	5 - 10	1.600	FILL	0.20412	CLAY
6	SITE11	5 - 10	5.500	CH	0.74036	CLAY
7	SITE14	1 - 3	0.060	SC	-1.22185	CLAY
8	SITE14	1 - 3	0.065	CL	-1.18709	CLAY
9	SITE14	1 - 3	0.230	OL	-0.63827	CLAY
10	SITE14	1 - 3	0.680	CL	-0.16749	CLAY
11	SITE14	1 - 3	2.600	CL	0.41497	CLAY
12	SITE14	1 - 3	4.000	CH	0.60206	CLAY
13	SITE14	1 - 3	4.300	OL	0.63347	CLAY
14	SITE14	1 - 3	5.600	CL	0.74819	CLAY
15	SITE14	3 - 5	0.065	CL	-1.18709	CLAY
16	SITE14	3 - 5	0.065	CL	-1.18709	CLAY
17	SITE14	3 - 5	0.210	CL	-0.67778	CLAY
18	SITE14	3 - 5	0.460	CL	-0.33724	CLAY
19	SITE14	3 - 5	0.520	OL	-0.28400	CLAY
20	SITE14	3 - 5	2.800	CL	0.44716	CLAY
21	SITE14	3 - 5	2.800	CL	0.44716	CLAY
22	SITE14	3 - 5	3.100	CL	0.49136	CLAY
23	SITE14	3 - 5	5.500	CL	0.74036	CLAY
24	SITE14	5 - 10	0.065	CL	-1.18709	CLAY
25	SITE14	5 - 10	0.065	CL	-1.18709	CLAY
26	SITE14	5 - 10	0.290	CH	-0.53760	CLAY
27	SITE14	5 - 10	0.410	CL	-0.38722	CLAY
28	SITE14	5 - 10	0.790	CL	-0.10237	CLAY
29	SITE14	5 - 10	2.600	CL	0.41497	CLAY
30	SITE14	5 - 10	3.000	CL	0.47712	CLAY
31	SITE14	5 - 10	3.400	CL	0.53148	CLAY
32	SITE14	5 - 10	4.800	CL	0.68124	CLAY
33	SITE19	1 - 3	0.115	CL	-0.93930	CLAY
34	SITE19	1 - 3	2.000	SC	0.30103	CLAY
35	SITE19	1 - 3	2.000	SC	0.30103	CLAY
36	SITE19	1 - 3	2.100	OL	0.32222	CLAY
37	SITE19	1 - 3	2.100	SC	0.32222	CLAY
38	SITE19	1 - 3	3.500	SC	0.54407	CLAY
39	SITE19	3 - 5	0.230	GC	-0.63827	CLAY
40	SITE19	3 - 5	2.300	OH	0.36173	CLAY
41	SITE19	3 - 5	2.300	OL	0.36173	CLAY
42	SITE19	3 - 5	2.700	SC	0.43136	CLAY
43	SITE19	3 - 5	2.900	CL	0.46240	CLAY
44	SITE19	3 - 5	3.000	OL	0.47712	CLAY
45	SITE19	5 - 10	0.060	CL	-1.22185	CLAY
46	SITE19	5 - 10	0.065	CL	-1.18709	CLAY
47	SITE19	5 - 10	0.940	CL	-0.02687	CLAY

SITEWIDE BERYLLIUM CONCENTRATIONS AT MOFFETT FIELD
12:50 Wednesday, September 15, 1993

OBS	SITE	DEPTH	BECONC	SOILTYPE	BECON	SOILTYP
48	SITE19	5 - 10	1.400	CL	0.14613	CLAY
49	SITE19	5 - 10	2.300	CL	0.36173	CLAY
50	SITE19	5 - 10	2.400	CL	0.38021	CLAY
51	SITE19	5 - 10	2.700	CL	0.43136	CLAY
52	SITE19	5 - 10	3.200	CL	0.50515	CLAY
53	SITE19	5 - 10	3.200	OL	0.50515	CLAY
54	SITE3	1 - 3	0.055	CL	-1.25964	CLAY
55	SITE3	1 - 3	0.530	CL	-0.27572	CLAY
56	SITE3	1 - 3	0.760	CL	-0.11919	CLAY
57	SITE3	1 - 3	0.990	CH	-0.00436	CLAY
58	SITE3	1 - 3	1.500	CL	0.17609	CLAY
59	SITE3	1 - 3	1.800	CL	0.25527	CLAY
60	SITE3	1 - 3	1.800	CL	0.25527	CLAY
61	SITE3	1 - 3	1.800	CL	0.25527	CLAY
62	SITE3	1 - 3	2.100	CL	0.32222	CLAY
63	SITE3	1 - 3	3.800	CH	0.57978	CLAY
64	SITE3	1 - 3	4.300	CH	0.63347	CLAY
65	SITE3	3 - 5	0.065	CL	-1.18709	CLAY
66	SITE3	3 - 5	0.380	CL	-0.42022	CLAY
67	SITE3	3 - 5	0.380	OL	-0.42022	CLAY
68	SITE3	3 - 5	0.500	CL	-0.30103	CLAY
69	SITE3	3 - 5	0.500	CL	-0.30103	CLAY
70	SITE3	3 - 5	0.580	CL	-0.23657	CLAY
71	SITE3	3 - 5	1.300	CL	0.11394	CLAY
72	SITE3	3 - 5	1.600	CL	0.20412	CLAY
73	SITE3	3 - 5	1.900	CL	0.27875	CLAY
74	SITE3	3 - 5	2.700	CL	0.43136	CLAY
75	SITE3	3 - 5	3.800	CL	0.57978	CLAY
76	SITE3	3 - 5	4.000	CH	0.60206	CLAY
77	SITE3	3 - 5	4.100	CH	0.61278	CLAY
78	SITE3	5 - 10	0.065	CL	-1.18709	CLAY
79	SITE3	5 - 10	0.330	CL	-0.48149	CLAY
80	SITE3	5 - 10	0.340	CL	-0.46852	CLAY
81	SITE3	5 - 10	0.51	CL	-0.29243	CLAY
82	SITE3	5 - 10	0.63	CH	-0.20066	CLAY
83	SITE3	5 - 10	0.85	CL	-0.07058	CLAY
84	SITE3	5 - 10	1.20	CL	0.07918	CLAY
85	SITE3	5 - 10	1.90	CL	0.27875	CLAY
86	SITE3	5 - 10	2.03	CL	0.30750	CLAY
87	SITE3	5 - 10	2.60	OL	0.41497	CLAY
88	SITE3	5 - 10	4.40	CH	0.64345	CLAY
89	SITE3	5 - 10	4.70	CL	0.67210	CLAY
90	SITE3	5 - 10	5.00	CH	0.69897	CLAY
91	SITE3	5 - 10	5.30	CL	0.72428	CLAY
92	SITE4	1 - 3	0.70	CL	-0.15490	CLAY
93	SITE4	1 - 3	1.50	CH	0.17609	CLAY
94	SITE4	1 - 3	1.60	CH	0.20412	CLAY

SITEWIDE BERYLLIUM CONCENTRATIONS AT MOFFETT FIELD
12:50 Wednesday, September 15, 1993

OBS	SITE	DEPTH	BECONC	SOILTYPE	BECON	SOILTYP
95	SITE4	1 - 3	1.60	CH	0.20412	CLAY
96	SITE4	1 - 3	1.80	CL	0.25527	CLAY
97	SITE4	1 - 3	2.100	CL	0.32222	CLAY
98	SITE4	3 - 5	0.350	CL	-0.45593	CLAY
99	SITE4	3 - 5	0.840	SC	-0.07572	CLAY
100	SITE4	3 - 5	1.200	CL	0.07918	CLAY
101	SITE4	3 - 5	1.300	CL	0.11394	CLAY
102	SITE4	3 - 5	1.700	CH	0.23045	CLAY
103	SITE4	3 - 5	2.100	CL	0.32222	CLAY
104	SITE4	3 - 5	2.300	CL	0.36173	CLAY
105	SITE4	5 - 10	0.115	CL	-0.93930	CLAY
106	SITE4	5 - 10	0.690	CL	-0.16115	CLAY
107	SITE4	5 - 10	0.700	CH	-0.15490	CLAY
108	SITE4	5 - 10	0.850	CL	-0.07058	CLAY
109	SITE4	5 - 10	1.200	CH	0.07918	CLAY
110	SITE4	5 - 10	1.800	CL	0.25527	CLAY
111	SITE4	5 - 10	2.200	CL	0.34242	CLAY
112	SITE4	5 - 10	2.500	CL	0.39794	CLAY
113	SITE5	1 - 3	0.115	CH	-0.93930	CLAY
114	SITE5	1 - 3	0.125	CH	-0.90309	CLAY
115	SITE5	1 - 3	0.520	OL	-0.28400	CLAY
116	SITE5	1 - 3	0.650	CH	-0.18709	CLAY
117	SITE5	1 - 3	0.690	OL	-0.16115	CLAY
118	SITE5	1 - 3	0.710	CH	-0.14874	CLAY
119	SITE5	1 - 3	0.730	CH	-0.13668	CLAY
120	SITE5	1 - 3	0.790	CL	-0.10237	CLAY
121	SITE5	1 - 3	0.980	CH	-0.00877	CLAY
122	SITE5	1 - 3	1.100	CH	0.04139	CLAY
123	SITE5	1 - 3	1.100	CH	0.04139	CLAY
124	SITE5	1 - 3	1.100	CL	0.04139	CLAY
125	SITE5	1 - 3	1.200	CH	0.07918	CLAY
126	SITE5	1 - 3	1.200	CH	0.07918	CLAY
127	SITE5	1 - 3	1.200	CH	0.07918	CLAY
128	SITE5	1 - 3	1.300	OH	0.11394	CLAY
129	SITE5	1 - 3	1.4	CH	0.14613	CLAY
130	SITE5	1 - 3	1.4	CL	0.14613	CLAY
131	SITE5	1 - 3	1.5	CH	0.17609	CLAY
132	SITE5	1 - 3	1.5	CL	0.17609	CLAY
133	SITE5	1 - 3	1.9	CH	0.27875	CLAY
134	SITE5	1 - 3	1.9	CH	0.27875	CLAY
135	SITE5	1 - 3	2.1	CH	0.32222	CLAY
136	SITE5	1 - 3	2.1	CL	0.32222	CLAY
137	SITE5	1 - 3	2.1	OL	0.32222	CLAY
138	SITE5	1 - 3	2.2	CH	0.34242	CLAY
139	SITE5	1 - 3	2.4	CL	0.38021	CLAY
140	SITE5	1 - 3	2.7	OH	0.43136	CLAY
141	SITE5	1 - 3	2.9	OH	0.46240	CLAY

SITEWIDE BERYLLIUM CONCENTRATIONS AT MOFFETT FIELD
12:50 Wednesday, September 15, 1993

OBS	SITE	DEPTH	BECONC	SOILTYPE	BECON	SOILTYP
142	SITE5	1 - 3	3.1	OH	0.49136	CLAY
143	SITE5	1 - 3	3.9	CL	0.59106	CLAY
144	SITE5	1 - 3	3.9	CL	0.59106	CLAY
145	SITE5	1 - 3	4.000	CH	0.60206	CLAY
146	SITE5	1 - 3	5.800	OH	0.76343	CLAY
147	SITE5	3 - 5	0.115	CH	-0.93930	CLAY
148	SITE5	3 - 5	0.310	OL	-0.50864	CLAY
149	SITE5	3 - 5	0.410	CL	-0.38722	CLAY
150	SITE5	3 - 5	0.450	CL	-0.34679	CLAY
151	SITE5	3 - 5	0.480	CH	-0.31876	CLAY
152	SITE5	3 - 5	0.580	CL	-0.23657	CLAY
153	SITE5	3 - 5	0.630	OL	-0.20066	CLAY
154	SITE5	3 - 5	0.690	CH	-0.16115	CLAY
155	SITE5	3 - 5	0.840	CH	-0.07572	CLAY
156	SITE5	3 - 5	0.850	CL	-0.07058	CLAY
157	SITE5	3 - 5	0.930	CH	-0.03152	CLAY
158	SITE5	3 - 5	0.980	CL	-0.00877	CLAY
159	SITE5	3 - 5	0.980	OH	-0.00877	CLAY
160	SITE5	3 - 5	1.000	CL	0.00000	CLAY
161	SITE5	3 - 5	1.2	CH	0.07918	CLAY
162	SITE5	3 - 5	1.2	CH	0.07918	CLAY
163	SITE5	3 - 5	1.2	CL	0.07918	CLAY
164	SITE5	3 - 5	1.2	CL	0.07918	CLAY
165	SITE5	3 - 5	1.2	OH	0.07918	CLAY
166	SITE5	3 - 5	1.4	CL	0.14613	CLAY
167	SITE5	3 - 5	1.5	CH	0.17609	CLAY
168	SITE5	3 - 5	1.6	CH	0.20412	CLAY
169	SITE5	3 - 5	1.6	CH	0.20412	CLAY
170	SITE5	3 - 5	1.6	CL	0.20412	CLAY
171	SITE5	3 - 5	1.8	CL	0.25527	CLAY
172	SITE5	3 - 5	2.0	CL	0.30103	CLAY
173	SITE5	3 - 5	2.3	CH	0.36173	CLAY
174	SITE5	3 - 5	2.8	CL	0.44716	CLAY
175	SITE5	3 - 5	2.9	CL	0.46240	CLAY
176	SITE5	3 - 5	3.2	OH	0.50515	CLAY
177	SITE5	3 - 5	3.80	CL	0.57978	CLAY
178	SITE5	3 - 5	3.80	CL	0.57978	CLAY
179	SITE5	3 - 5	4.80	CL	0.68124	CLAY
180	SITE5	3 - 5	4.90	CL	0.69020	CLAY
181	SITE5	5 - 10	0.12	CH	-0.92082	CLAY
182	SITE5	5 - 10	0.12	CL	-0.92082	CLAY
183	SITE5	5 - 10	0.31	SC	-0.50864	CLAY
184	SITE5	5 - 10	0.32	CL	-0.49485	CLAY
185	SITE5	5 - 10	0.39	CL	-0.40894	CLAY
186	SITE5	5 - 10	0.46	CL	-0.33724	CLAY
187	SITE5	5 - 10	0.53	CL	-0.27572	CLAY
188	SITE5	5 - 10	0.64	CL	-0.19382	CLAY

SITEWIDE BERYLLIUM CONCENTRATIONS AT MOFFETT FIELD
12:50 Wednesday, September 15, 1993

OBS	SITE	DEPTH	BECONC	SOILTYPE	BECON	SOILTYP
189	SITE5	5 - 10	0.76	CL	-0.11919	CLAY
190	SITE5	5 - 10	0.77	CL	-0.11351	CLAY
191	SITE5	5 - 10	0.82	SC	-0.08619	CLAY
192	SITE5	5 - 10	0.84	CL	-0.07572	CLAY
193	SITE5	5 - 10	0.89	SC	-0.05061	CLAY
194	SITE5	5 - 10	0.92	CL	-0.03621	CLAY
195	SITE5	5 - 10	1.20	CH	0.07918	CLAY
196	SITE5	5 - 10	1.30	CL	0.11394	CLAY
197	SITE5	5 - 10	1.60	CL	0.20412	CLAY
198	SITE5	5 - 10	1.80	CH	0.25527	CLAY
199	SITE5	5 - 10	1.80	CL	0.25527	CLAY
200	SITE5	5 - 10	1.90	CL	0.27875	CLAY
201	SITE5	5 - 10	2.00	CL	0.30103	CLAY
202	SITE5	5 - 10	2.00	CL	0.30103	CLAY
203	SITE5	5 - 10	2.20	CL	0.34242	CLAY
204	SITE5	5 - 10	2.40	CH	0.38021	CLAY
205	SITE5	5 - 10	2.60	CL	0.41497	CLAY
206	SITE5	5 - 10	3.00	CL	0.47712	CLAY
207	SITE5	5 - 10	3.40	CL	0.53148	CLAY
208	SITE5	5 - 10	3.40	CL	0.53148	CLAY
209	SITE5	5 - 10	4.400	GC	0.64345	CLAY
210	SITE5	5 - 10	5.700	CL	0.75587	CLAY
211	SITE6	1 - 3	0.600	CH	-0.22185	CLAY
212	SITE6	1 - 3	0.840	CH	-0.07572	CLAY
213	SITE6	3 - 5	0.530	CH	-0.27572	CLAY
214	SITE6	3 - 5	0.690	CH	-0.16115	CLAY
215	SITE6	5 - 10	0.460	SC	-0.33724	CLAY
216	SITE6	5 - 10	0.600	CL	-0.22185	CLAY
217	SITE7	1 - 3	0.060	CL	-1.22185	CLAY
218	SITE7	1 - 3	0.520	SC	-0.28400	CLAY
219	SITE7	1 - 3	0.970	FILL	-0.01323	CLAY
220	SITE7	1 - 3	1.400	CL	0.14613	CLAY
221	SITE7	1 - 3	2.100	CL	0.32222	CLAY
222	SITE7	1 - 3	3.000	CL	0.47712	CLAY
223	SITE7	3 - 5	0.065	SC	-1.18709	CLAY
224	SITE7	3 - 5	1.100	CH	0.04139	CLAY
225	SITE7	3 - 5	1.80	CL	0.25527	CLAY
226	SITE7	3 - 5	1.90	SC	0.27875	CLAY
227	SITE7	3 - 5	2.30	CL	0.36173	CLAY
228	SITE7	3 - 5	3.30	CL	0.51851	CLAY
229	SITE7	5 - 10	0.06	CL	-1.22185	CLAY
230	SITE7	5 - 10	1.70	CL	0.23045	CLAY
231	SITE7	5 - 10	1.80	CL	0.25527	CLAY
232	SITE7	5 - 10	2.00	SC	0.30103	CLAY
233	SITE7	5 - 10	3.40	CL	0.53148	CLAY
234	SITE8	1 - 3	1.50	CL	0.17609	CLAY
235	SITE8	1 - 3	2.40	CL	0.38021	CLAY

SITEWIDE BERYLLIUM CONCENTRATIONS AT MOFFETT FIELD
12:50 Wednesday, September 15, 1993

OBS	SITE	DEPTH	BECONC	SOILTYPE	BECON	SOILTYP
236	SITE8	1 - 3	2.60	CL	0.41497	CLAY
237	SITE8	1 - 3	2.80	CL	0.44716	CLAY
238	SITE8	1 - 3	3.90	CL	0.59106	CLAY
239	SITE8	3 - 5	2.40	CL	0.38021	CLAY
240	SITE8	3 - 5	2.70	CL	0.43136	CLAY
241	SITE8	3 - 5	3.400	CL	0.53148	CLAY
242	SITE8	3 - 5	3.600	CL	0.55630	CLAY
243	SITE8	3 - 5	4.200	CL	0.62325	CLAY
244	SITE8	5 - 10	1.900	CL	0.27875	CLAY
245	SITE8	5 - 10	2.500	CL	0.39794	CLAY
246	SITE8	5 - 10	2.800	CL	0.44716	CLAY
247	SITE8	5 - 10	3.700	CL	0.56820	CLAY
248	SITE8	5 - 10	3.700	CL	0.56820	CLAY
249	SITE8	5 - 10	3.900	CH	0.59106	CLAY
250	SITE9	1 - 3	0.065	CL	-1.18709	CLAY
251	SITE9	1 - 3	0.070	OH	-1.15490	CLAY
252	SITE9	1 - 3	0.100	CL	-1.00000	CLAY
253	SITE9	1 - 3	0.230	CL	-0.63827	CLAY
254	SITE9	1 - 3	0.115	CL	-0.93930	CLAY
255	SITE9	1 - 3	0.115	CL	-0.93930	CLAY
256	SITE9	1 - 3	0.120	CL	-0.92082	CLAY
257	SITE9	1 - 3	0.125	CL	-0.90309	CLAY
258	SITE9	1 - 3	0.130	CL	-0.88606	CLAY
259	SITE9	1 - 3	0.130	CL	-0.88606	CLAY
260	SITE9	1 - 3	0.130	CL	-0.88606	CLAY
261	SITE9	1 - 3	0.130	CL	-0.88606	CLAY
262	SITE9	1 - 3	0.410	GC	-0.38722	CLAY
263	SITE9	1 - 3	0.560	CL	-0.25181	CLAY
264	SITE9	1 - 3	0.580	CL	-0.23657	CLAY
265	SITE9	1 - 3	0.610	CH	-0.21467	CLAY
266	SITE9	1 - 3	0.640	CL	-0.19382	CLAY
267	SITE9	1 - 3	0.690	OL	-0.16115	CLAY
268	SITE9	1 - 3	0.730	CL	-0.13668	CLAY
269	SITE9	1 - 3	0.840	CL	-0.07572	CLAY
270	SITE9	1 - 3	0.910	OH	-0.04096	CLAY
271	SITE9	1 - 3	0.500	CL	-0.30103	CLAY
272	SITE9	1 - 3	0.500	CL	-0.30103	CLAY
273	SITE9	1 - 3	1.100	CL	0.04139	CLAY
274	SITE9	1 - 3	1.200	CL	0.07918	CLAY
275	SITE9	1 - 3	1.600	CL	0.20412	CLAY
276	SITE9	3 - 5	0.070	CL	-1.15490	CLAY
277	SITE9	3 - 5	0.095	SC	-1.02228	CLAY
278	SITE9	3 - 5	0.110	CL	-0.95861	CLAY
279	SITE9	3 - 5	0.220	CL	-0.65758	CLAY
280	SITE9	3 - 5	0.115	CL	-0.93930	CLAY
281	SITE9	3 - 5	0.120	CL	-0.92082	CLAY
282	SITE9	3 - 5	0.120	CL	-0.92082	CLAY

SITEWIDE BERYLLIUM CONCENTRATIONS AT MOFFETT FIELD
12:50 Wednesday, September 15, 1993

OBS	SITE	DEPTH	BECONC	SOILTYPE	BECON	SOILTYP
283	SITE9	3 - 5	0.120	CL	-0.92082	CLAY
284	SITE9	3 - 5	0.120	CL	-0.92082	CLAY
285	SITE9	3 - 5	0.125	CL	-0.90309	CLAY
286	SITE9	3 - 5	0.125	CL	-0.90309	CLAY
287	SITE9	3 - 5	0.290	CL	-0.53760	CLAY
288	SITE9	3 - 5	0.300	CH	-0.52288	CLAY
289	SITE9	3 - 5	0.320	CH	-0.49485	CLAY
290	SITE9	3 - 5	0.320	CL	-0.49485	CLAY
291	SITE9	3 - 5	0.350	CL	-0.45593	CLAY
292	SITE9	3 - 5	0.470	CL	-0.32790	CLAY
293	SITE9	3 - 5	0.480	CL	-0.31876	CLAY
294	SITE9	3 - 5	0.540	CL	-0.26761	CLAY
295	SITE9	3 - 5	0.550	CL	-0.25964	CLAY
296	SITE9	3 - 5	0.630	CL	-0.20066	CLAY
297	SITE9	3 - 5	0.730	CL	-0.13668	CLAY
298	SITE9	3 - 5	0.870	CL	-0.06048	CLAY
299	SITE9	3 - 5	0.500	CL	-0.30103	CLAY
300	SITE9	3 - 5	0.500	CL	-0.30103	CLAY
301	SITE9	3 - 5	1.300	OL	0.11394	CLAY
302	SITE9	3 - 5	2.900	CL	0.46240	CLAY
303	SITE9	5 - 10	0.055	CL	-1.25964	CLAY
304	SITE9	5 - 10	0.110	SC	-0.95861	CLAY
305	SITE9	5 - 10	0.110	SC	-0.95861	CLAY
306	SITE9	5 - 10	0.115	CL	-0.93930	CLAY
307	SITE9	5 - 10	0.115	OH	-0.93930	CLAY
308	SITE9	5 - 10	0.120	CL	-0.92082	CLAY
309	SITE9	5 - 10	0.125	CL	-0.90309	CLAY
310	SITE9	5 - 10	0.125	CL	-0.90309	CLAY
311	SITE9	5 - 10	0.340	CL	-0.46852	CLAY
312	SITE9	5 - 10	0.360	CH	-0.44370	CLAY
313	SITE9	5 - 10	0.360	CL	-0.44370	CLAY
314	SITE9	5 - 10	0.380	CL	-0.42022	CLAY
315	SITE9	5 - 10	0.210	CL	-0.67778	CLAY
316	SITE9	5 - 10	0.480	CL	-0.31876	CLAY
317	SITE9	5 - 10	0.510	CL	-0.29243	CLAY
318	SITE9	5 - 10	0.560	CL	-0.25181	CLAY
319	SITE9	5 - 10	0.570	CL	-0.24413	CLAY
320	SITE9	5 - 10	0.720	CL	-0.14267	CLAY
321	SITE9	5 - 10	0.97	CL	-0.01323	CLAY
322	SITE9	5 - 10	0.50	CL	-0.30103	CLAY
323	SITE11	1 - 3	4.10	SW	0.61278	COAR
324	SITE11	5 - 10	5.00	SW	0.69897	COAR
325	SITE4	1 - 3	0.43	SP	-0.36653	COAR
326	SITE4	3 - 5	1.20	GW	0.07918	COAR
327	SITE4	5 - 10	1.20	GW	0.07918	COAR
328	SITE4	5 - 10	1.30	SW	0.11394	COAR
329	SITE5	3 - 5	0.75	GW	-0.12494	COAR

SITEWIDE BERYLLIUM CONCENTRATIONS AT MOFFETT FIELD
12:50 Wednesday, September 15, 1993

OBS	SITE	DEPTH	BECONC	SOILTYPE	BECON	SOILTYP
330	SITE5	5 - 10	0.48	GW	-0.31876	COAR
331	SITE5	5 - 10	1.70	GW	0.23045	COAR
332	SITE5	5 - 10	3.00	SW	0.47712	COAR
333	SITE9	1 - 3	0.11	SW	-0.95861	COAR
334	SITE9	1 - 3	0.13	SP	-0.88606	COAR
335	SITE9	3 - 5	0.11	SW	-0.95861	COAR
336	SITE9	5 - 10	0.06	GW	-1.22185	COAR
337	SITE9	5 - 10	0.200	SP	-0.69897	COAR
338	SITE9	5 - 10	0.105	SP	-0.97881	COAR
339	SITE9	5 - 10	0.110	SP	-0.95861	COAR
340	SITE9	5 - 10	0.480	GW	-0.31876	COAR
341	SITE9	5 - 10	0.530	SP	-0.27572	COAR
342	SITE9	5 - 10	0.980	SW	-0.00877	COAR
343	SITE10	5 - 10	1.200	SM	0.07918	FINE
344	SITE11	1 - 3	4.800	GM	0.68124	FINE
345	SITE14	1 - 3	0.060	GM	-1.22185	FINE
346	SITE19	1 - 3	0.055	SM	-1.25964	FINE
347	SITE19	1 - 3	0.930	GM	-0.03152	FINE
348	SITE19	1 - 3	1.700	GM	0.23045	FINE
349	SITE19	3 - 5	0.055	SM	-1.25964	FINE
350	SITE19	3 - 5	1.200	GM	0.07918	FINE
351	SITE3	1 - 3	0.550	GM	-0.25964	FINE
352	SITE3	3 - 5	1.200	SM	0.07918	FINE
353	SITE3	5 - 10	1.800	ML	0.25527	FINE
354	SITE4	1 - 3	0.125	ML	-0.90309	FINE
355	SITE4	1 - 3	0.270	ML	-0.56864	FINE
356	SITE4	1 - 3	0.390	MH	-0.40894	FINE
357	SITE4	1 - 3	0.590	ML	-0.22915	FINE
358	SITE4	1 - 3	0.670	ML	-0.17393	FINE
359	SITE4	1 - 3	1.300	SM	0.11394	FINE
360	SITE4	3 - 5	0.125	ML	-0.90309	FINE
361	SITE4	3 - 5	0.270	ML	-0.56864	FINE
362	SITE4	3 - 5	0.400	ML	-0.39794	FINE
363	SITE4	3 - 5	0.420	ML	-0.37675	FINE
364	SITE4	3 - 5	0.960	ML	-0.01773	FINE
365	SITE4	3 - 5	1.100	ML	0.04139	FINE
366	SITE4	5 - 10	0.230	MH	-0.63827	FINE
367	SITE4	5 - 10	0.330	ML	-0.48149	FINE
368	SITE4	5 - 10	0.580	ML	-0.23657	FINE
369	SITE5	1 - 3	0.740	GM	-0.13077	FINE
370	SITE5	1 - 3	3.100	ML	0.49136	FINE
371	SITE5	1 - 3	5.800	GM	0.76343	FINE
372	SITE5	3 - 5	0.110	SM	-0.95861	FINE
373	SITE5	3 - 5	0.110	SM	-0.95861	FINE
374	SITE5	3 - 5	0.540	SM	-0.26761	FINE
375	SITE5	3 - 5	1.400	ML	0.14613	FINE
376	SITE5	3 - 5	1.800	ML	0.25527	FINE

SITEWIDE BERYLLIUM CONCENTRATIONS AT MOFFETT FIELD
12:50 Wednesday, September 15, 1993

OBS	SITE	DEPTH	BECONC	SOILTYPE	BECON	SOILTYP
377	SITE5	3 - 5	3.000	ML	0.47712	FINE
378	SITE5	3 - 5	3.000	ML	0.47712	FINE
379	SITE5	5 - 10	0.115	ML	-0.93930	FINE
380	SITE5	5 - 10	0.230	SM	-0.63827	FINE
381	SITE5	5 - 10	0.620	SM	-0.20761	FINE
382	SITE5	5 - 10	0.670	ML	-0.17393	FINE
383	SITE5	5 - 10	1.300	ML	0.11394	FINE
384	SITE5	5 - 10	1.800	SM	0.25527	FINE
385	SITE5	5 - 10	2.00	ML	0.30103	FINE
386	SITE5	5 - 10	2.80	ML	0.44716	FINE
387	SITE6	1 - 3	0.41	ML	-0.38722	FINE
388	SITE6	5 - 10	0.63	ML	-0.20066	FINE
389	SITE7	5 - 10	0.60	ML	-0.22185	FINE
390	SITE8	1 - 3	3.10	GM	0.49136	FINE
391	SITE8	1 - 3	3.30	ML	0.51851	FINE
392	SITE8	1 - 3	3.60	SM	0.55630	FINE
393	SITE8	3 - 5	3.60	GM	0.55630	FINE
394	SITE8	3 - 5	4.20	ML	0.62325	FINE
395	SITE8	3 - 5	4.80	ML	0.68124	FINE
396	SITE8	5 - 10	3.40	ML	0.53148	FINE
397	SITE8	5 - 10	3.90	ML	0.59106	FINE
398	SITE9	1 - 3	0.24	ML	-0.61979	FINE
399	SITE9	1 - 3	0.12	ML	-0.92082	FINE
400	SITE9	1 - 3	0.25	GM	-0.60206	FINE
401	SITE9	1 - 3	0.125	ML	-0.90309	FINE
402	SITE9	1 - 3	0.125	ML	-0.90309	FINE
403	SITE9	1 - 3	0.125	ML	-0.90309	FINE
404	SITE9	1 - 3	0.310	ML	-0.50864	FINE
405	SITE9	1 - 3	0.340	ML	-0.46852	FINE
406	SITE9	1 - 3	0.380	SM	-0.42022	FINE
407	SITE9	1 - 3	1.300	ML	0.11394	FINE
408	SITE9	1 - 3	2.500	ML	0.39794	FINE
409	SITE9	3 - 5	0.070	ML	-1.15490	FINE
410	SITE9	3 - 5	0.110	ML	-0.95861	FINE
411	SITE9	3 - 5	0.110	ML	-0.95861	FINE
412	SITE9	3 - 5	0.240	ML	-0.61979	FINE
413	SITE9	3 - 5	0.120	ML	-0.92082	FINE
414	SITE9	3 - 5	0.125	ML	-0.90309	FINE
415	SITE9	3 - 5	0.130	SM	-0.88606	FINE
416	SITE9	3 - 5	0.670	ML	-0.17393	FINE
417	SITE9	3 - 5	0.700	ML	-0.15490	FINE
418	SITE9	3 - 5	0.710	ML	-0.14874	FINE
419	SITE9	3 - 5	1.100	ML	0.04139	FINE
420	SITE9	5 - 10	0.110	ML	-0.95861	FINE
421	SITE9	5 - 10	0.115	ML	-0.93930	FINE
422	SITE9	5 - 10	0.120	ML	-0.92082	FINE
423	SITE9	5 - 10	0.270	ML	-0.56864	FINE

SITEWIDE BERYLLIUM CONCENTRATIONS AT MOFFETT FIELD
12:50 Wednesday, September 15, 1993

OBS	SITE	DEPTH	BECONC	SOILTYPE	BECON	SOILTYP
424	SITE9	5 - 10	0.290	ML	-0.53760	FINE
425	SITE9	5 - 10	0.330	ML	-0.48149	FINE
426	SITE9	5 - 10	0.480	ML	-0.31876	FINE
427	SITE9	5 - 10	0.670	ML	-0.17393	FINE
428	SITE9	5 - 10	0.710	ML	-0.14874	FINE
429	SITE9	5 - 10	0.500	ML	-0.30103	FINE
430	SITE9	5 - 10	1.700	ML	0.23045	FINE
431	SITE9	5 - 10	2.100	ML	0.32222	FINE
432	SITE11	1 - 3	0.055	.	-1.25964	SHAL
433	SITE11	1 - 3	0.055	.	-1.25964	SHAL
434	SITE11	1 - 3	0.055	.	-1.25964	SHAL
435	SITE11	1 - 3	0.055	.	-1.25964	SHAL
436	SITE11	1 - 3	0.055	.	-1.25964	SHAL
437	SITE11	1 - 3	0.055	.	-1.25964	SHAL
438	SITE11	1 - 3	0.055	.	-1.25964	SHAL
439	SITE11	1 - 3	0.060	.	-1.22185	SHAL
440	SITE11	1 - 3	0.060	.	-1.22185	SHAL
441	SITE11	1 - 3	0.060	.	-1.22185	SHAL
442	SITE11	1 - 3	0.060	.	-1.22185	SHAL
443	SITE11	1 - 3	0.060	.	-1.22185	SHAL
444	SITE11	1 - 3	0.060	.	-1.22185	SHAL
445	SITE11	1 - 3	0.060	.	-1.22185	SHAL
446	SITE11	1 - 3	0.060	.	-1.22185	SHAL
447	SITE11	1 - 3	0.060	.	-1.22185	SHAL
448	SITE11	1 - 3	0.060	.	-1.22185	SHAL
449	SITE11	1 - 3	0.065	.	-1.18709	SHAL
450	SITE11	1 - 3	0.065	.	-1.18709	SHAL
451	SITE11	1 - 3	0.140	.	-0.85387	SHAL
452	SITE11	1 - 3	0.080	.	-1.09691	SHAL
453	SITE11	1 - 3	0.180	.	-0.74473	SHAL
454	SITE11	1 - 3	0.310	.	-0.50864	SHAL
455	SITE11	1 - 3	0.340	.	-0.46852	SHAL
456	SITE11	1 - 3	1.400	.	0.14613	SHAL
457	SITE11	1 - 3	1.500	.	0.17609	SHAL
458	SITE11	1 - 3	1.600	.	0.20412	SHAL
459	SITE11	3 - 5	1.100	.	0.04139	SHAL
460	SITE11	3 - 5	1.300	.	0.11394	SHAL
461	SITE11	5 - 10	0.055	.	-1.25964	SHAL
462	SITE11	5 - 10	0.055	.	-1.25964	SHAL
463	SITE11	5 - 10	0.060	.	-1.22185	SHAL
464	SITE11	5 - 10	0.060	.	-1.22185	SHAL
465	SITE11	5 - 10	0.065	.	-1.18709	SHAL
466	SITE11	5 - 10	0.065	.	-1.18709	SHAL
467	SITE11	5 - 10	0.070	.	-1.15490	SHAL
468	SITE11	5 - 10	0.070	.	-1.15490	SHAL
469	SITE11	5 - 10	0.140	.	-0.85387	SHAL
470	SITE11	5 - 10	0.070	.	-1.15490	SHAL

SITEWIDE BERYLLIUM CONCENTRATIONS AT MOFFETT FIELD
12:50 Wednesday, September 15, 1993

OBS	SITE	DEPTH	BECONC	SOILTYPE	BECON	SOILTYP
471	SITE11	5 - 10	0.075	.	-1.12494	SHAL
472	SITE11	5 - 10	0.080	.	-1.09691	SHAL
473	SITE11	5 - 10	0.170	.	-0.76955	SHAL
474	SITE11	5 - 10	0.085	.	-1.07058	SHAL
475	SITE11	5 - 10	1.300	.	0.11394	SHAL
476	SITE11	5 - 10	1.500	.	0.17609	SHAL
477	SITE12	1 - 3	0.055	.	-1.25964	SHAL
478	SITE12	1 - 3	0.055	.	-1.25964	SHAL
479	SITE12	1 - 3	0.060	.	-1.22185	SHAL
480	SITE12	1 - 3	0.060	.	-1.22185	SHAL
481	SITE12	1 - 3	0.060	.	-1.22185	SHAL
482	SITE12	1 - 3	0.065	.	-1.18709	SHAL
483	SITE12	1 - 3	0.065	.	-1.18709	SHAL
484	SITE12	1 - 3	0.065	.	-1.18709	SHAL
485	SITE12	1 - 3	0.065	.	-1.18709	SHAL
486	SITE12	1 - 3	0.065	.	-1.18709	SHAL
487	SITE12	1 - 3	0.070	.	-1.15490	SHAL
488	SITE12	1 - 3	0.070	.	-1.15490	SHAL
489	SITE12	1 - 3	1.700	.	0.23045	SHAL
490	SITE12	1 - 3	2.600	.	0.41497	SHAL
491	SITE12	1 - 3	2.900	.	0.46240	SHAL
492	SITE12	3 - 5	0.060	.	-1.22185	SHAL
493	SITE12	3 - 5	0.060	.	-1.22185	SHAL
494	SITE12	3 - 5	0.060	.	-1.22185	SHAL
495	SITE12	3 - 5	0.060	.	-1.22185	SHAL
496	SITE12	3 - 5	0.060	.	-1.22185	SHAL
497	SITE12	3 - 5	0.060	.	-1.22185	SHAL
498	SITE12	3 - 5	0.060	.	-1.22185	SHAL
499	SITE12	3 - 5	0.065	.	-1.18709	SHAL
500	SITE12	3 - 5	0.065	.	-1.18709	SHAL
501	SITE12	3 - 5	0.065	.	-1.18709	SHAL
502	SITE12	3 - 5	0.065	.	-1.18709	SHAL
503	SITE12	3 - 5	0.065	.	-1.18709	SHAL
504	SITE12	3 - 5	0.070	.	-1.15490	SHAL
505	SITE12	3 - 5	1.400	.	0.14613	SHAL
506	SITE12	3 - 5	2.000	.	0.30103	SHAL
507	SITE12	3 - 5	2.500	.	0.39794	SHAL
508	SITE12	5 - 10	0.055	.	-1.25964	SHAL
509	SITE12	5 - 10	0.055	.	-1.25964	SHAL
510	SITE12	5 - 10	0.060	.	-1.22185	SHAL
511	SITE12	5 - 10	0.060	.	-1.22185	SHAL
512	SITE12	5 - 10	0.065	.	-1.18709	SHAL
513	SITE12	5 - 10	0.065	.	-1.18709	SHAL
514	SITE12	5 - 10	0.065	.	-1.18709	SHAL
515	SITE12	5 - 10	0.065	.	-1.18709	SHAL
516	SITE12	5 - 10	0.065	.	-1.18709	SHAL
517	SITE12	5 - 10	0.070	.	-1.15490	SHAL

SITEWIDE BERYLLIUM CONCENTRATIONS AT MOFFETT FIELD
12:50 Wednesday, September 15, 1993

OBS	SITE	DEPTH	BECONC	SOILTYPE	BECON	SOILTYP
518	SITE12	5 - 10	0.070	.	-1.15490	SHAL
519	SITE12	5 - 10	1.300	.	0.11394	SHAL
520	SITE12	5 - 10	2.100	.	0.32222	SHAL
521	SITE12	5 - 10	2.600	.	0.41497	SHAL
522	SITE13	1 - 3	0.055	.	-1.25964	SHAL
523	SITE13	1 - 3	0.060	.	-1.22185	SHAL
524	SITE13	1 - 3	0.065	.	-1.18709	SHAL
525	SITE13	1 - 3	0.065	.	-1.18709	SHAL
526	SITE13	5 - 10	0.060	.	-1.22185	SHAL
527	SITE13	5 - 10	0.060	.	-1.22185	SHAL
528	SITE13	5 - 10	0.065	.	-1.18709	SHAL
529	SITE13	5 - 10	0.065	.	-1.18709	SHAL
530	SITE3	1 - 3	0.430	.	-0.36653	SHAL
531	SITE3	1 - 3	0.480	.	-0.31876	SHAL
532	SITE3	1 - 3	1.600	.	0.20412	SHAL
533	SITE3	1 - 3	1.680	.	0.22531	SHAL
534	SITE3	1 - 3	2.300	.	0.36173	SHAL
535	SITE3	1 - 3	2.900	.	0.46240	SHAL
536	SITE3	1 - 3	3.400	.	0.53148	SHAL
537	SITE3	1 - 3	4.400	.	0.64345	SHAL
538	SITE3	1 - 3	6.500	.	0.81291	SHAL
539	SITE3	3 - 5	2.000	.	0.30103	SHAL
540	SITE3	3 - 5	2.700	.	0.43136	SHAL
541	SITE3	3 - 5	4.400	.	0.64345	SHAL
542	SITE5	1 - 3	2.200	.	0.34242	SHAL
543	SITE5	1 - 3	2.900	.	0.46240	SHAL
544	SITE5	1 - 3	3.300	.	0.51851	SHAL
545	SITE5	3 - 5	0.350	.	-0.45593	SHAL
546	SITE5	3 - 5	0.370	.	-0.43180	SHAL
547	SITE5	3 - 5	1.500	.	0.17609	SHAL
548	SITE5	3 - 5	2.300	.	0.36173	SHAL
549	SITE5	3 - 5	3.500	.	0.54407	SHAL
550	SITE5	5 - 10	0.610	.	-0.21467	SHAL
551	SITE5	5 - 10	0.630	.	-0.20066	SHAL
552	SITE5	5 - 10	0.640	.	-0.19382	SHAL
553	SITE5	5 - 10	1.000	.	0.00000	SHAL
554	SITE5	5 - 10	3.700	.	0.56820	SHAL
555	SITE7	1 - 3	0.055	.	-1.25964	SHAL
556	SITE7	1 - 3	0.070	.	-1.15490	SHAL
557	SITE7	3 - 5	0.055	.	-1.25964	SHAL
558	SITE7	3 - 5	0.065	.	-1.18709	SHAL
559	SITE7	3 - 5	0.065	.	-1.18709	SHAL
560	SITE7	5 - 10	0.060	.	-1.22185	SHAL
561	SITE7	5 - 10	0.065	.	-1.18709	SHAL
562	SITE7	5 - 10	0.070	.	-1.15490	SHAL
563	SITE8	1 - 3	0.055	.	-1.25964	SHAL
564	SITE8	1 - 3	0.055	.	-1.25964	SHAL

SITEWIDE BERYLLIUM CONCENTRATIONS AT MOFFETT FIELD
12:50 Wednesday, September 15, 1993

OBS	SITE	DEPTH	BECONC	SOILTYPE	BECON	SOILTYP
565	SITE8	1 - 3	0.055	.	-1.25964	SHAL
566	SITE8	1 - 3	0.060	.	-1.22185	SHAL
567	SITE8	1 - 3	0.060	.	-1.22185	SHAL
568	SITE8	1 - 3	0.065	.	-1.18709	SHAL
569	SITE8	1 - 3	0.065	.	-1.18709	SHAL
570	SITE8	1 - 3	0.065	.	-1.18709	SHAL
571	SITE8	1 - 3	0.065	.	-1.18709	SHAL
572	SITE8	1 - 3	0.065	.	-1.18709	SHAL
573	SITE8	1 - 3	0.070	.	-1.15490	SHAL
574	SITE8	1 - 3	0.070	.	-1.15490	SHAL
575	SITE8	1 - 3	0.070	.	-1.15490	SHAL
576	SITE8	3 - 5	0.060	.	-1.22185	SHAL
577	SITE8	3 - 5	0.060	.	-1.22185	SHAL
578	SITE8	3 - 5	0.065	.	-1.18709	SHAL
579	SITE8	3 - 5	0.065	.	-1.18709	SHAL
580	SITE8	3 - 5	0.065	.	-1.18709	SHAL
581	SITE8	3 - 5	0.065	.	-1.18709	SHAL
582	SITE8	3 - 5	0.070	.	-1.15490	SHAL
583	SITE8	3 - 5	0.070	.	-1.15490	SHAL
584	SITE8	3 - 5	0.070	.	-1.15490	SHAL
585	SITE8	3 - 5	0.070	.	-1.15490	SHAL
586	SITE8	3 - 5	0.075	.	-1.12494	SHAL
587	SITE8	3 - 5	0.075	.	-1.12494	SHAL
588	SITE8	3 - 5	0.075	.	-1.12494	SHAL
589	SITE9	1 - 3	0.070	.	-1.15490	SHAL
590	SITE9	1 - 3	0.095	.	-1.02228	SHAL
591	SITE9	1 - 3	2.000	.	0.30103	SHAL
592	SITE9	3 - 5	0.065	.	-1.18709	SHAL
593	SITE9	3 - 5	0.065	.	-1.18709	SHAL
594	SITE9	3 - 5	2.500	.	0.39794	SHAL
595	SITE9	5 - 10	0.055	.	-1.25964	SHAL
596	SITE9	5 - 10	0.065	.	-1.18709	SHAL
597	SITE9	5 - 10	2.400	.	0.38021	SHAL

SITEWIDE BERYLLIUM CONCENTRATIONS AT MOFFETT FIELD
12:50 Wednesday, September 15, 1993

TEST OF NORMALITY SITEWIDE

UNIVARIATE PROCEDURE

Moments

N	597	Sum Wgts	597
Mean	1.167965	Sum	697.275
Std Dev	1.320224	Variance	1.742992
Skewness	1.385837	Kurtosis	1.379233
USS	1853.216	CSS	1038.823
CV	113.0363	Std Mean	0.054033
T:Mean=0	21.6157	Prob>|T|	0.0001
Sgn Rank	89251.5	Prob>|S|	0.0001
Num ^= 0	597		
W:Normal	0.801581	Prob<W	0.0

Quantiles(Def=5)

100% Max	6.5	99%	5.5
75% Q3	1.8	95%	3.9
50% Med	0.63	90%	3.1
25% Q1	0.11	10%	0.06
0% Min	0.055	5%	0.06
		1%	0.055
Range	6.445		
Q3-Q1	1.69		
Mode	0.065		

Extremes

Lowest	Obs	Highest	Obs
0.055(	595)	5.6(	14)
0.055(	565)	5.7(	210)
0.055(	564)	5.8(	146)
0.055(	563)	5.8(	371)
0.055(	557)	6.5(	538)

SITEWIDE BERYLLIUM CONCENTRATIONS AT MOFFETT FIELD
12:50 Wednesday, September 15, 1993

TEST OF NORMALITY OF LOG DATA SITEWIDE

UNIVARIATE PROCEDURE

Variable=BECON

Moments

N	597	Sum Wgts	597
Mean	-0.30743	Sum	-183.536
Std Dev	0.647655	Variance	0.419457
Skewness	-0.16518	Kurtosis	-1.39831
USS	306.4207	CSS	249.9961
CV	-210.667	Std Mean	0.026507
T:Mean=0	-11.5982	Prob>|T|	0.0001
Sgn Rank	-37906	Prob>|S|	0.0001
Num ^= 0	595		
W:Normal	0.882696	Prob<W	0.0

Quantiles(Def=5)

100% Max	0.812913	99%	0.740363
75% Q3	0.255273	95%	0.591065
50% Med	-0.20066	90%	0.491362
25% Q1	-0.95861	10%	-1.22185
0% Min	-1.25964	5%	-1.22185
		1%	-1.25964
Range	2.072551		
Q3-Q1	1.21388		
Mode	-1.18709		

Extremes

Lowest	Obs	Highest	Obs
-1.25964(	595)	0.748188(	14)
-1.25964(	565)	0.755875(	210)
-1.25964(	564)	0.763428(	146)
-1.25964(	563)	0.763428(	371)
-1.25964(	557)	0.812913(	538)

SITEWIDE BERYLLIUM CONCENTRATIONS AT MOFFETT FIELD
12:50 Wednesday, September 15, 1993

TEST OF NORMALITY PLOT

Moments

N	597	Sum Wgts	597
Mean	1.167965	Sum	697.275
Std Dev	1.320224	Variance	1.742992
Skewness	1.385837	Kurtosis	1.379233
USS	1853.216	CSS	1038.823
CV	113.0363	Std Mean	0.054033
T:Mean=0	21.6157	Prob>|T|	0.0001
Sgn Rank	89251.5	Prob>|S|	0.0001
Num ^= 0	597		

Quantiles(Def=5)

100% Max	6.5	99%	5.5
75% Q3	1.8	95%	3.9
50% Med	0.63	90%	3.1
25% Q1	0.11	10%	0.06
0% Min	0.055	5%	0.06
		1%	0.055
Range	6.445		
Q3-Q1	1.69		
Mode	0.065		

Extremes

Lowest	Obs	Highest	Obs
0.055(	595)	5.6(	14)
0.055(	565)	5.7(	210)
0.055(	564)	5.8(	146)
0.055(	563)	5.8(	371)
0.055(	557)	6.5(	538)

SITEWIDE BERYLLIUM CONCENTRATIONS AT MOFFETT FIELD
12:50 Wednesday, September 15, 1993

TEST OF NORMALITY PLOT

```
                    Histogram                          #             Boxplot
6.5+*                                                  1                0
   .**                                                 9                0
   .***                                               19                0
3.5+******                                            41                |
   .*********                                         71                |
   .************                                      96             +--+--+
0.5+*********************************************   360             *-----*
    ----+----+----+----+----+----+----+----+----+
    * may represent up to 8 counts
```

Normal Probability Plot

```
6.5+                                                    *
   |                                                 *****
   |                                             *****++++
3.5+                                         *****++++++
   |                                     ******+
   |                              ++++*****
0.5+******************************
    +----+----+----+----+----+----+----+----+----+----+
        -2        -1         0        +1        +2
```

SITEWIDE BERYLLIUM CONCENTRATIONS AT MOFFETT FIELD
12:50 Wednesday, September 15, 1993

TEST OF NORMALITY OF LOG DATA PLOT

UNIVARIATE PROCEDURE

Moments

N	597	Sum Wgts	597
Mean	-0.30743	Sum	-183.536
Std Dev	0.647655	Variance	0.419457
Skewness	-0.16518	Kurtosis	-1.39831
USS	306.4207	CSS	249.9961
CV	-210.667	Std Mean	0.026507
T:Mean=0	-11.5982	Prob>|T|	0.0001
Sgn Rank	-37906	Prob>|S|	0.0001
Num ^= 0	595		

Quantiles(Def=5)

100% Max	0.812913	99%	0.740363
75% Q3	0.255273	95%	0.591065
50% Med	-0.20066	90%	0.491362
25% Q1	-0.95861	10%	-1.22185
0% Min	-1.25964	5%	-1.22185
		1%	-1.25964
Range	2.072551		
Q3-Q1	1.21388		
Mode	-1.18709		

Extremes

Lowest	Obs	Highest	Obs
-1.25964(	595)	0.748188(	14)
-1.25964(	565)	0.755875(	210)
-1.25964(	564)	0.763428(	146)
-1.25964(	563)	0.763428(	371)
-1.25964(	557)	0.812913(	538)

SITEWIDE BERYLLIUM CONCENTRATIONS AT MOFFETT FIELD
12:50 Wednesday, September 15, 1993

TEST OF NORMALITY OF LOG DATA PLOT

```
                    Histogram                          #             Boxplot
 0.75+***************                                  59               |
     .*********************************************  178            +-----+
-0.25+***********************************            140            *--+--*
     .********************                             80            +-----+
-1.25+***********************************            140               |
      ----+----+----+----+----+----+----+----+----+
      * may represent up to 4 counts
```

```
                        Normal Probability Plot
          0.75+                                        *************
              |                              ***********
         -0.25+                         *******+
              |                  +++*****
         -1.25+********************
               +----+----+----+----+----+----+----+----+----+----+
                   -2        -1         0        +1        +2
```

SITEWIDE BERYLLIUM CONCENTRATIONS AT MOFFETT FIELD
12:50 Wednesday, September 15, 1993

BAR CHART FOR BECONC

FREQUENCY OF BECONC

```
BECONC                                                   CUM              CUM
MIDPOINT                                        FREQ     FREQ   PERCENT  PERCENT
          |
   0.25   |************************************ 262      262     43.89    43.89
   0.75   |*************                         98      360     16.42    60.30
   1.25   |*******                               49      409      8.21    68.51
   1.75   |******                                47      456      7.87    76.38
   2.25   |*****                                 40      496      6.70    83.08
   2.75   |****                                  31      527      5.19    88.27
   3.25   |***                                   24      551      4.02    92.29
   3.75   |**                                    17      568      2.85    95.14
   4.25   |**                                    13      581      2.18    97.32
   4.75   |*                                      6      587      1.01    98.32
   5.25   |                                       3      590      0.50    98.83
   5.75   |*                                      6      596      1.01    99.83
   6.25   |                                       1      597      0.17   100.00

          --------+-------+-------+-------+---
                  60      120     180     240
```

FREQUENCY OF BECON

```
BECON                                                    CUM              CUM
MIDPOINT                                        FREQ     FREQ   PERCENT  PERCENT
          |
  -1.20   |*************************** 131      131     21.94    21.94
  -1.05   |**                            11      142      1.84    23.79
  -0.90   |***********                   53      195      8.88    32.66
  -0.75   |*                              5      200      0.84    33.50
  -0.60   |***                           15      215      2.51    36.01
  -0.45   |*******                       33      248      5.53    41.54
  -0.30   |*********                     43      291      7.20    48.74
  -0.15   |**********                    50      341      8.38    57.12
   0.00   |******                        29      370      4.86    61.98
   0.15   |************                  59      429      9.88    71.86
   0.30   |************                  61      490     10.22    82.08
   0.45   |***********                   54      544      9.05    91.12
   0.60   |********                      38      582      6.37    97.49
   0.75   |***                           15      597      2.51   100.00
          --------+-------+-------+--
                  40      80      120

                FREQUENCY
```

SITEWIDE BERYLLIUM CONCENTRATIONS AT MOFFETT FIELD
12:50 Wednesday, September 15, 1993

BAR CHART FOR BECON

FREQUENCY OF BECONC GROUPED BY SITE

SITE	BECONC MIDPOINT		FREQ	CUM FREQ	PERCENT	CUM PERCENT
SITE10	0.25		0	0	0.00	0.00
	0.75	*	3	3	0.50	0.50
	1.25		2	5	0.34	0.84
	1.75		1	6	0.17	1.01
	2.25		0	6	0.00	1.01
	2.75		0	6	0.00	1.01
	3.25		0	6	0.00	1.01
	3.75		0	6	0.00	1.01
	4.25		0	6	0.00	1.01
	4.75		0	6	0.00	1.01
	5.25		0	6	0.00	1.01
	5.75		0	6	0.00	1.01
	6.25		0	6	0.00	1.01
SITE11	0.25	********	38	44	6.37	7.37
	0.75		0	44	0.00	7.37
	1.25	*	4	48	0.67	8.04
	1.75	*	3	51	0.50	8.54
	2.25		0	51	0.00	8.54
	2.75		0	51	0.00	8.54
	3.25		0	51	0.00	8.54
	3.75		0	51	0.00	8.54
	4.25		1	52	0.17	8.71
	4.75		1	53	0.17	8.88
	5.25		1	54	0.17	9.05
	5.75		1	55	0.17	9.21
	6.25		0	55	0.00	9.21
SITE12	0.25	*******	36	91	6.03	15.24
	0.75		0	91	0.00	15.24
	1.25		2	93	0.34	15.58
	1.75		1	94	0.17	15.75
	2.25		2	96	0.34	16.08
	2.75	*	4	100	0.67	16.75
	3.25		0	100	0.00	16.75
	3.75		0	100	0.00	16.75
	4.25		0	100	0.00	16.75
	4.75		0	100	0.00	16.75
	5.25		0	100	0.00	16.75
	5.75		0	100	0.00	16.75
	6.25		0	100	0.00	16.75

SITEWIDE BERYLLIUM CONCENTRATIONS AT MOFFETT FIELD
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BAR CHART FOR BECON

SITE13	0.25	**	8	108	1.34	18.09
	0.75		0	108	0.00	18.09
	1.25		0	108	0.00	18.09
	1.75		0	108	0.00	18.09
	2.25		0	108	0.00	18.09
	2.75		0	108	0.00	18.09
	3.25		0	108	0.00	18.09
	3.75		0	108	0.00	18.09
	4.25		0	108	0.00	18.09
	4.75		0	108	0.00	18.09
	5.25		0	108	0.00	18.09
	5.75		0	108	0.00	18.09
	6.25		0	108	0.00	18.09
SITE14	0.25	**	12	120	2.01	20.10
	0.75	*	3	123	0.50	20.60
	1.25		0	123	0.00	20.60
	1.75		0	123	0.00	20.60
	2.25		0	123	0.00	20.60
	2.75	*	4	127	0.67	21.27
	3.25	*	3	130	0.50	21.78
	3.75		0	130	0.00	21.78
	4.25		2	132	0.34	22.11
	4.75		1	133	0.17	22.28
	5.25		0	133	0.00	22.28
	5.75		2	135	0.34	22.61
	6.25		0	135	0.00	22.61
SITE19	0.25	*	6	141	1.01	23.62
	0.75		2	143	0.34	23.95
	1.25		2	145	0.34	24.29
	1.75		1	146	0.17	24.46
	2.25	**	8	154	1.34	25.80
	2.75	*	3	157	0.50	26.30
	3.25	*	3	160	0.50	26.80
	3.75		1	161	0.17	26.97
	4.25		0	161	0.00	26.97
	4.75		0	161	0.00	26.97
	5.25		0	161	0.00	26.97
	5.75		0	161	0.00	26.97
	6.25		0	161	0.00	26.97

SITEWIDE BERYLLIUM CONCENTRATIONS AT MOFFETT FIELD
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BAR CHART FOR BECON

SITE3	0.25	|**	9	170	1.51	28.48
	0.75	|**	10	180	1.68	30.15
	1.25	|*	3	183	0.50	30.65
	1.75	|**	10	193	1.68	32.33
	2.25	|*	4	197	0.67	33.00
	2.75	|*	4	201	0.67	33.67
	3.25	|	1	202	0.17	33.84
	3.75	|	2	204	0.34	34.17
	4.25	|*	6	210	1.01	35.18
	4.75	|	1	211	0.17	35.34
	5.25	|	2	213	0.34	35.68
	5.75	|	0	213	0.00	35.68
	6.25	|	1	214	0.17	35.85
		|				
SITE4	0.25	|**	12	226	2.01	37.86
	0.75	|**	9	235	1.51	39.36
	1.25	|**	8	243	1.34	40.70
	1.75	|*	6	249	1.01	41.71
	2.25	|*	4	253	0.67	42.38
	2.75	|	1	254	0.17	42.55
	3.25	|	0	254	0.00	42.55
	3.75	|	0	254	0.00	42.55
	4.25	|	0	254	0.00	42.55
	4.75	|	0	254	0.00	42.55
	5.25	|	0	254	0.00	42.55
	5.75	|	0	254	0.00	42.55
	6.25	|	0	254	0.00	42.55
		|				
SITE5	0.25	|****	20	274	3.35	45.90
	0.75	|******	31	305	5.19	51.09
	1.25	|****	21	326	3.52	54.61
	1.75	|***	17	343	2.85	57.45
	2.25	|***	14	357	2.35	59.80
	2.75	|*	7	364	1.17	60.97
	3.25	|**	10	374	1.68	62.65
	3.75	|*	6	380	1.01	63.65
	4.25	|	2	382	0.34	63.99
	4.75	|	2	384	0.34	64.32
	5.25	|	0	384	0.00	64.32
	5.75	|*	3	387	0.50	64.82
	6.25	|	0	387	0.00	64.82
		|				

SITEWIDE BERYLLIUM CONCENTRATIONS AT MOFFETT FIELD
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BAR CHART FOR BECON

SITE6	0.25		2	389	0.34	65.16
	0.75	*	6	395	1.01	66.16
	1.25		0	395	0.00	66.16
	1.75		0	395	0.00	66.16
	2.25		0	395	0.00	66.16
	2.75		0	395	0.00	66.16
	3.25		0	395	0.00	66.16
	3.75		0	395	0.00	66.16
	4.25		0	395	0.00	66.16
	4.75		0	395	0.00	66.16
	5.25		0	395	0.00	66.16
	5.75		0	395	0.00	66.16
	6.25		0	395	0.00	66.16
SITE7	0.25	**	11	406	1.84	68.01
	0.75	*	3	409	0.50	68.51
	1.25		2	411	0.34	68.84
	1.75	*	4	415	0.67	69.51
	2.25	*	3	418	0.50	70.02
	2.75		0	418	0.00	70.02
	3.25	*	3	421	0.50	70.52
	3.75		0	421	0.00	70.52
	4.25		0	421	0.00	70.52
	4.75		0	421	0.00	70.52
	5.25		0	421	0.00	70.52
	5.75		0	421	0.00	70.52
	6.25		0	421	0.00	70.52
SITE8	0.25	*****	26	447	4.36	74.87
	0.75		0	447	0.00	74.87
	1.25		0	447	0.00	74.87
	1.75		2	449	0.34	75.21
	2.25		2	451	0.34	75.54
	2.75	*	5	456	0.84	76.38
	3.25	*	4	460	0.67	77.05
	3.75	**	8	468	1.34	78.39
	4.25		2	470	0.34	78.73
	4.75		1	471	0.17	78.89
	5.25		0	471	0.00	78.89
	5.75		0	471	0.00	78.89
	6.25		0	471	0.00	78.89

SITEWIDE BERYLLIUM CONCENTRATIONS AT MOFFETT FIELD
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BAR CHART FOR BECON

```
SITE9      0.25   |****************  82   553    13.74    92.63
           0.75   |******            31   584     5.19    97.82
           1.25   |*                  5   589     0.84    98.66
           1.75   |                   2   591     0.34    98.99
           2.25   |*                  3   594     0.50    99.50
           2.75   |*                  3   597     0.50   100.00
           3.25   |                   0   597     0.00   100.00
           3.75   |                   0   597     0.00   100.00
           4.25   |                   0   597     0.00   100.00
           4.75   |                   0   597     0.00   100.00
           5.25   |                   0   597     0.00   100.00
           5.75   |                   0   597     0.00   100.00
           6.25   |                   0   597     0.00   100.00
                  |
                  ----+---+---+---+
                      20  40  60  80

                      FREQUENCY
```

SITEWIDE BERYLLIUM CONCENTRATIONS AT MOFFETT FIELD
12:50 Wednesday, September 15, 1993

MEANS FOR SITEWIDE BERYLLIUM CONCENTRATIONS

SITE=SITE10

N Obs	N	Minimum	Maximum	Mean	Std Dev
6	6	0.6800000	1.6000000	1.0733333	0.3298282

SITE=SITE11

N Obs	N	Minimum	Maximum	Mean	Std Dev
49	49	0.0550000	5.5000000	0.6609184	1.3520512

SITE=SITE12

N Obs	N	Minimum	Maximum	Mean	Std Dev
45	45	0.0550000	2.9000000	0.4747778	0.8677236

SITE=SITE13

N Obs	N	Minimum	Maximum	Mean	Std Dev
8	8	0.0550000	0.0650000	0.0618750	0.0037201

SITE=SITE14

N Obs	N	Minimum	Maximum	Mean	Std Dev
27	27	0.0600000	5.6000000	1.7975926	1.8934083

SITE=SITE19

N Obs	N	Minimum	Maximum	Mean	Std Dev
26	26	0.0550000	3.5000000	1.7480769	1.1285106

SITE=SITE3

N Obs	N	Minimum	Maximum	Mean	Std Dev
53	53	0.0550000	6.5000000	2.0270755	1.6248167

SITEWIDE BERYLLIUM CONCENTRATIONS AT MOFFETT FIELD
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SITEWIDE BERYLLIUM CONCENTRATIONS AT MOFFETT FIELD
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MEANS FOR SITEWIDE BERYLLIUM CONCENTRATIONS

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SITE=SITE4

N Obs	N	Minimum	Maximum	Mean	Std Dev
40	40	0.1150000	2.5000000	1.0258750	0.6788073

SITE=SITE5

N Obs	N	Minimum	Maximum	Mean	Std Dev
133	133	0.1100000	5.8000000	1.6707519	1.2807352

SITE=SITE6

N Obs	N	Minimum	Maximum	Mean	Std Dev
8	8	0.4100000	0.8400000	0.5950000	0.1346954

SITE=SITE7

N Obs	N	Minimum	Maximum	Mean	Std Dev
26	26	0.0550000	3.4000000	1.0992308	1.1224765

SITE=SITE8

N Obs	N	Minimum	Maximum	Mean	Std Dev
50	50	0.0550000	4.8000000	1.5921000	1.6937072

SITE=SITE9

N Obs	N	Minimum	Maximum	Mean	Std Dev
126	126	0.0550000	2.9000000	0.4680952	0.5504438

SITEWIDE BERYLLIUM CONCENTRATIONS AT MOFFETT FIELD
12:50 Wednesday, September 15, 1993

NONPARAMETRIC TEST FOR SITEWIDE BERYLLIUM CONCENTRATION BY SITE AT MOFFETT FIE
12:50 Wednesday, September 15, 1993
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N P A R 1 W A Y P R O C E D U R E

Wilcoxon Scores (Rank Sums) for Variable BECONC
Classified by Variable SITE

SITE	N	Sum of Scores	Expected Under H0	Std Dev Under H0	Mean Score
SITE10	6	2181.5000	1794.0	420.15385	363.583333
SITE11	49	8269.0000	14651.0	1156.18491	168.755102
SITE12	45	6676.5000	13455.0	1112.02557	148.366667
SITE13	8	489.0000	2392.0	484.33028	61.125000
SITE14	27	9130.5000	8073.0	875.30274	338.166667
SITE19	26	9971.5000	7774.0	859.69362	383.519231
SITE3	53	21562.5000	15847.0	1198.05391	406.839623
SITE4	40	13529.5000	11960.0	1053.16537	338.237500
SITE5	133	52621.5000	39767.0	1752.76539	395.650376
SITE6	8	2316.0000	2392.0	484.33028	289.500000
SITE7	26	7252.5000	7774.0	859.69362	278.942308
SITE8	50	15030.0000	14950.0	1166.85702	300.600000
SITE9	126	29473.0000	37674.0	1718.83704	233.912698

Average Scores were used for Ties

Kruskal-Wallis Test (Chi-Square Approximation)
CHISQ= 168.99 DF= 12 Prob > CHISQ= 0.0001

SITEWIDE BERYLLIUM CONCENTRATIONS AT MOFFETT FIELD
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MEANS FOR SITEWIDE BERYLLIUM CONCENTRATIONS BY DEPTH 79
12:50 Wednesday, September 15, 1993

DEPTH=1 - 3

N Obs	N	Minimum	Maximum	Mean	Std Dev
215	215	0.0550000	6.5000000	1.1459767	1.3498058

DEPTH=3 - 5

N Obs	N	Minimum	Maximum	Mean	Std Dev
189	189	0.0550000	5.5000000	1.1781217	1.2767267

DEPTH=5 - 10

N Obs	N	Minimum	Maximum	Mean	Std Dev
193	193	0.0550000	5.7000000	1.1825130	1.3352396

SITEWIDE BERYLLIUM CONCENTRATIONS AT MOFFETT FIELD
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MEANS FOR SITEWIDE BERYLLIUM CONCENTRATIONS BY DEPTH 79
12:50 Wednesday, September 15, 1993

FREQUENCY OF BECONC GROUPED BY DEPTH

DEPTH	BECONC MIDPOINT		FREQ	CUM FREQ	PERCENT	CUM PERCENT
		|				
1 - 3	0.25	|**********	98	98	16.42	16.42
	0.75	|******	32	130	5.36	21.78
	1.25	|***	15	145	2.51	24.29
	1.75	|****	20	165	3.35	27.64
	2.25	|***	16	181	2.68	30.32
	2.75	|**	10	191	1.68	31.99
	3.25	|*	7	198	1.17	33.17
	3.75	|*	6	204	1.01	34.17
	4.25	|*	6	210	1.01	35.18
	4.75	|	1	211	0.17	35.34
	5.25	|	0	211	0.00	35.34
	5.75	|*	3	214	0.50	35.85
	6.25	|	1	215	0.17	36.01
		|				
3 - 5	0.25	|**********	81	296	13.57	49.58
	0.75	|******	29	325	4.86	54.44
	1.25	|****	22	347	3.69	58.12
	1.75	|**	12	359	2.01	60.13
	2.25	|**	11	370	1.84	61.98
	2.75	|**	12	382	2.01	63.99
	3.25	|*	7	389	1.17	65.16
	3.75	|*	6	395	1.01	66.16
	4.25	|*	5	400	0.84	67.00
	4.75	|*	3	403	0.50	67.50
	5.25	|	0	403	0.00	67.50
	5.75	|	1	404	0.17	67.67
	6.25	|	0	404	0.00	67.67
		|				
5 - 10	0.25	|**********	83	487	13.90	81.57
	0.75	|*******	37	524	6.20	87.77
	1.25	|**	12	536	2.01	89.78
	1.75	|***	15	551	2.51	92.29
	2.25	|***	13	564	2.18	94.47
	2.75	|**	9	573	1.51	95.98
	3.25	|**	10	583	1.68	97.65
	3.75	|*	5	588	0.84	98.49
	4.25	|	2	590	0.34	98.83
	4.75	|	2	592	0.34	99.16
	5.25	|*	3	595	0.50	99.66
	5.75	|	2	597	0.34	100.00

SITEWIDE BERYLLIUM CONCENTRATIONS AT MOFFETT FIELD
12:50 Wednesday, September 15, 1993

```
6.25   |                        0   597     0.00   100.00
       |
       ----+---+---+---+---+
           20  40  60  80 100

             FREQUENCY
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SITEWIDE BERYLLIUM CONCENTRATIONS AT MOFFETT FIELD
12:50 Wednesday, September 15, 1993

NONPARAMETRIC TEST FOR SITEWIDE BERYLLIUM CONCENTRATION BY DEPTH AT MOFFETT FI
12:50 Wednesday, September 15, 1993
84

N P A R 1 W A Y P R O C E D U R E

Wilcoxon Scores (Rank Sums) for Variable BECONC
Classified by Variable DEPTH

DEPTH	N	Sum of Scores	Expected Under H0	Std Dev Under H0	Mean Score
1 - 3	215	61700.0	64285.0	2022.04068	286.976744
3 - 5	189	58174.0	56511.0	1959.29559	307.798942
5 - 10	193	58629.0	57707.0	1970.19093	303.777202

Average Scores were used for Ties

Kruskal-Wallis Test (Chi-Square Approximation)
CHISQ= 1.6863 DF= 2 Prob > CHISQ= 0.4304

SITEWIDE BERYLLIUM CONCENTRATIONS AT MOFFETT FIELD
12:50 Wednesday, September 15, 1993

MEANS FOR SITEWIDE BERYLLIUM CONCENTRATIONS BY SOILTYPE 85
12:50 Wednesday, September 15, 1993

Analysis Variable : BECONC

SOILTYP=CLAY

N Obs	N	Minimum	Maximum	Mean	Std Dev
322	322	0.0550000	5.8000000	1.4778261	1.3345467

SOILTYP=COAR

N Obs	N	Minimum	Maximum	Mean	Std Dev
20	20	0.0600000	5.0000000	1.0987500	1.3894773

SOILTYP=FINE

N Obs	N	Minimum	Maximum	Mean	Std Dev
89	89	0.0550000	5.8000000	1.1155056	1.3046375

SOILTYP=SHAL

N Obs	N	Minimum	Maximum	Mean	Std Dev
166	166	0.0550000	6.5000000	0.6033735	1.0912323

FREQUENCY OF BECONC GROUPED BY SOILTYP

SITEWIDE BERYLLIUM CONCENTRATIONS AT MOFFETT FIELD
12:50 Wednesday, September 15, 1993

MEANS FOR SITEWIDE BERYLLIUM CONCENTRATIONS BY SOILTYPE

SOILTYP	BECONC MIDPOINT		FREQ	CUM FREQ	PERCENT	CUM PERCENT
		|				
CLAY	0.25	|**********	86	86	14.41	14.41
	0.75	|**********	74	160	12.40	26.80
	1.25	|******	30	190	5.03	31.83
	1.75	|*******	34	224	5.70	37.52
	2.25	|******	30	254	5.03	42.55
	2.75	|****	21	275	3.52	46.06
	3.25	|***	15	290	2.51	48.58
	3.75	|**	12	302	2.01	50.59
	4.25	|**	9	311	1.51	52.09
	4.75	|*	4	315	0.67	52.76
	5.25	|	2	317	0.34	53.10
	5.75	|*	5	322	0.84	53.94
	6.25	|	0	322	0.00	53.94
		|				
COAR	0.25	|**	10	332	1.68	55.61
	0.75	|*	3	335	0.50	56.11
	1.25	|*	3	338	0.50	56.62
	1.75	|	1	339	0.17	56.78
	2.25	|	0	339	0.00	56.78
	2.75	|	0	339	0.00	56.78
	3.25	|	1	340	0.17	56.95
	3.75	|	0	340	0.00	56.95
	4.25	|	1	341	0.17	57.12
	4.75	|	0	341	0.00	57.12
	5.25	|	1	342	0.17	57.29
	5.75	|	0	342	0.00	57.29
	6.25	|	0	342	0.00	57.29
		|				
FINE	0.25	|********	40	382	6.70	63.99
	0.75	|****	18	400	3.02	67.00
	1.25	|**	9	409	1.51	68.51
	1.75	|*	5	414	0.84	69.35
	2.25	|	2	416	0.34	69.68
	2.75	|	2	418	0.34	70.02
	3.25	|*	6	424	1.01	71.02
	3.75	|*	3	427	0.50	71.52
	4.25	|	1	428	0.17	71.69
	4.75	|	2	430	0.34	72.03
	5.25	|	0	430	0.00	72.03
	5.75	|	1	431	0.17	72.19
	6.25	|	0	431	0.00	72.19
		|				

SITEWIDE BERYLLIUM CONCENTRATIONS AT MOFFETT FIELD
12:50 Wednesday, September 15, 1993

MEANS FOR SITEWIDE BERYLLIUM CONCENTRATIONS BY SOILTYPE

```
SHAL        0.25   |************************* 126   557    21.11    93.30
            0.75   |*                         3   560     0.50    93.80
            1.25   |*                         7   567     1.17    94.97
            1.75   |*                         7   574     1.17    96.15
            2.25   |**                        8   582     1.34    97.49
            2.75   |**                        8   590     1.34    98.83
            3.25   |                          2   592     0.34    99.16
            3.75   |                          2   594     0.34    99.50
            4.25   |                          2   596     0.34    99.83
            4.75   |                          0   596     0.00    99.83
            5.25   |                          0   596     0.00    99.83
            5.75   |                          0   596     0.00    99.83
            6.25   |                          1   597     0.17   100.00
                   |
                   --------+-------+-------+-
                           40      80      120

                        FREQUENCY
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SITEWIDE BERYLLIUM CONCENTRATIONS AT MOFFETT FIELD
12:50 Wednesday, September 15, 1993

NONPARAMETRIC TEST FOR SITEWIDE BERYLLIUM
CONCENTRATION BY SOIL TYPE AT MOFFET FIELD

N P A R 1 W A Y P R O C E D U R E

Wilcoxon Scores (Rank Sums) for Variable BECONC
Classified by Variable SOILTYP

SOILTYP	N	Sum of Scores	Expected Under H0	Std Dev Under H0	Mean Score
CLAY	322	115975.000	96278.0	2099.58403	360.170807
COAR	20	6030.500	5980.0	757.95231	301.525000
FINE	89	27668.500	26611.0	1500.25761	310.882022
SHAL	166	28829.000	49634.0	1887.25966	173.668675

Average Scores were used for Ties

Kruskal-Wallis Test (Chi-Square Approximation)
CHISQ= 128.70 DF= 3 Prob > CHISQ= 0.0001

SITEWIDE BERYLLIUM CONCENTRATIONS AT MOFFETT FIELD
12:50 Wednesday, September 15, 1993

LOG TRANSFORMED BECONC IN SOIL BY SITE AT MOFFETT FIELD

SITE=SITE10

N Obs	N	Minimum	Maximum	Mean	Std Dev
6	6	-0.1674911	0.2041200	0.0137587	0.1331641

SITE=SITE11

N Obs	N	Minimum	Maximum	Mean	Std Dev
49	49	-1.2596373	0.7403627	-0.7978659	0.6546411

SITE=SITE12

N Obs	N	Minimum	Maximum	Mean	Std Dev
45	45	-1.2596373	0.4623980	-0.8994998	0.6152845

SITE=SITE13

N Obs	N	Minimum	Maximum	Mean	Std Dev
8	8	-1.2596373	-1.1870866	-1.2091913	0.0266723

SITE=SITE14

N Obs	N	Minimum	Maximum	Mean	Std Dev
27	27	-1.2218487	0.7481880	-0.1807985	0.7472874

SITE=SITE19

N Obs	N	Minimum	Maximum	Mean	Std Dev
26	26	-1.2596373	0.5440680	-0.0015349	0.6322495

SITE=SITE3

N Obs	N	Minimum	Maximum	Mean	Std Dev
53	53	-1.2596373	0.8129134	0.1113270	0.4914803

SITEWIDE BERYLLIUM CONCENTRATIONS AT MOFFETT FIELD
12:50 Wednesday, September 15, 1993

LOG TRANSFORMED BECONC IN SOIL BY SITE AT MOFFETT FIELD

SITE=SITE4

N Obs	N	Minimum	Maximum	Mean	Std Dev
40	40	-0.9393022	0.3979400	-0.1127858	0.3686984

SITE=SITE5

N Obs	N	Minimum	Maximum	Mean	Std Dev
133	133	-0.9586073	0.7634280	0.0740235	0.4022959

SITE=SITE6

N Obs	N	Minimum	Maximum	Mean	Std Dev
8	8	-0.3872161	-0.0757207	-0.2351764	0.0982927

SITE=SITE7

N Obs	N	Minimum	Maximum	Mean	Std Dev
26	26	-1.2596373	0.5314789	-0.3862571	0.7374514

SITE=SITE8

N Obs	N	Minimum	Maximum	Mean	Std Dev
50	50	-1.2596373	0.6812412	-0.3775256	0.8532510

SITE=SITE9

N Obs	N	Minimum	Maximum	Mean	Std Dev
126	126	-1.2596373	0.4623980	-0.5546384	0.4357731

SITEWIDE BERYLLIUM CONCENTRATIONS AT MOFFETT FIELD
12:50 Wednesday, September 15, 1993

MULTIPLE COMPARISON PROCEDURES
FOR SITEWIDE BE DATA BY SITE

Analysis of Variance Procedure
Class Level Information

Class	Levels	Values
SITE	13	SITE10 SITE11 SITE12 SITE13 SITE14 SITE19 SITE3 SITE4 SITE5 SITE6 SITE7 SITE8 SITE9

Number of observations in data set = 597

SITEWIDE BERYLLIUM CONCENTRATIONS AT MOFFETT FIELD
12:50 Wednesday, September 15, 1993

MULTIPLE COMPARISON PROCEDURES FOR SITEWIDE BE DATA BY SITE

Analysis of Variance Procedure

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	12	75.86152486	6.32179374	21.20	0.0001
Error	584	174.13455544	0.29817561		
Corrected Total	596	249.99608030			

R-Square	C.V.	Root MSE	BECON Mean
0.303451	-177.6187	0.546055	-.30743072

Source	DF	Anova SS	Mean Square	F Value	Pr > F
SITE	12	75.86152486	6.32179374	21.20	0.0001

T tests (LSD) for variable: BECON

NOTE: This test controls the type I comparisonwise error rate not the experimentwise error rate.

Alpha= 0.1 df= 584 MSE= 0.298176
Critical Value of T= 1.65
Least Significant Difference= 0.285
WARNING: Cell sizes are not equal.
Harmonic Mean of cell sizes= 19.92092

Means with the same letter are not significantly different.

SITEWIDE BERYLLIUM CONCENTRATIONS AT MOFFETT FIELD
12:50 Wednesday, September 15, 1993

MULTIPLE COMPARISON PROCEDURES FOR SITEWIDE BE DATA BY SITE
Analysis of Variance Procedure

T Grouping				Mean	N	SITE
		A		0.111	53	SITE3
		A				
B		A		0.074	133	SITE5
B		A				
B		A	C	0.014	6	SITE10
B		A	C			
B		A	C	-0.002	26	SITE19
B		A	C			
B	D	A	C	-0.113	40	SITE4
B	D		C			
B	D		C	-0.181	27	SITE14
	D		C			
	D		C	-0.235	8	SITE6
	D					
	D	E		-0.378	50	SITE8
	D	E				
	D	E		-0.386	26	SITE7
		E				
F		E		-0.555	126	SITE9
F						
F		G		-0.798	49	SITE11
		G				
		G		-0.899	45	SITE12
		H		-1.209	8	SITE13

SITEWIDE BERYLLIUM CONCENTRATIONS AT MOFFETT FIELD
12:50 Wednesday, September 15, 1993

LOG TRANSFORMED BECONC IN SOIL BY SOIL TYPE AT MOFFETT FIELD

SOILTYP=CLAY

N Obs	N	Minimum	Maximum	Mean	Std Dev
322	322	-1.2596373	0.7634280	-0.0692104	0.5272321

SOILTYP=COAR

N Obs	N	Minimum	Maximum	Mean	Std Dev
20	20	-1.2218487	0.6989700	-0.2891682	0.5807738

SOILTYP=FINE

N Obs	N	Minimum	Maximum	Mean	Std Dev
89	89	-1.2596373	0.7634280	-0.2534318	0.5423014

SOILTYP=SHAL

N Obs	N	Minimum	Maximum	Mean	Std Dev
166	166	-1.2596373	0.8129134	-0.8006723	0.6492553

SITEWIDE BERYLLIUM CONCENTRATIONS AT MOFFETT FIELD
12:50 Wednesday, September 15, 1993

LOG TRANSFORMED BECONC IN SOIL BY SOIL TYPE AT MOFFETT FIELD

Analysis of Variance Procedure
Class Level Information

Class	Levels	Values
SOILTYP	4	CLAY COAR FINE SHAL

Number of observations in data set = 597

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	3	58.92502609	19.64167536	60.96	0.0001
Error	593	191.07105421	0.32221088		
Corrected Total	596	249.99608030			

R-Square	C.V.	Root MSE	BECON Mean
0.235704	-184.6387	0.567636	-.30743072

Source	DF	Anova SS	Mean Square	F Value	Pr > F
SOILTYP	3	58.92502609	19.64167536	60.96	0.0001

T tests (LSD) for variable: BECON

NOTE: This test controls the type I comparisonwise error rate not the experimentwise error rate.

Alpha= 0.1 df= 593 MSE= 0.322211
Critical Value of T= 1.65
Least Significant Difference= 0.1754
WARNING: Cell sizes are not equal.
Harmonic Mean of cell sizes= 56.84593

Means with the same letter are not significantly different.

SITEWIDE BERYLLIUM CONCENTRATIONS AT MOFFETT FIELD
12:50 Wednesday, September 15, 1993

MULTIPLE COMPARISON PROCEDURES
FOR SITEWIDE BE DATA

Analysis of Variance Procedure

T Grouping	Mean	N	SOILTYP
A	-0.069	322	CLAY
B	-0.253	89	FINE
B			
B	-0.289	20	COAR
C	-0.801	166	SHAL

SITE	DEPTH	BECONC	USCS SOIL TYPE	SOIL CLASS
SITE3	3 - 5	0.380	OL	CLAY
SITE3	5 - 10	2.600	OL	CLAY
SITE3	1 - 3	0.055	CL	CLAY
SITE3	1 - 3	0.530	CL	CLAY
SITE3	1 - 3	0.760	CL	CLAY
SITE3	1 - 3	0.990	CH	CLAY
SITE3	1 - 3	1.500	CL	CLAY
SITE3	1 - 3	1.800	CL	CLAY
SITE3	1 - 3	1.800	CL	CLAY
SITE3	1 - 3	1.800	CL	CLAY
SITE3	1 - 3	2.100	CL	CLAY
SITE3	1 - 3	3.800	CH	CLAY
SITE3	1 - 3	4.300	CH	CLAY
SITE3	3 - 5	0.065	CL	CLAY
SITE3	3 - 5	0.380	CL	CLAY
SITE3	3 - 5	0.500	CL	CLAY
SITE3	3 - 5	0.500	CL	CLAY
SITE3	3 - 5	0.580	CL	CLAY
SITE3	3 - 5	1.300	CL	CLAY
SITE3	3 - 5	1.600	CL	CLAY
SITE3	3 - 5	1.900	CL	CLAY
SITE3	3 - 5	2.700	CL	CLAY
SITE3	3 - 5	3.800	CL	CLAY
SITE3	3 - 5	4.000	CH	CLAY
SITE3	3 - 5	4.100	CH	CLAY
SITE3	5 - 10	0.065	CL	CLAY
SITE3	5 - 10	0.330	CL	CLAY
SITE3	5 - 10	0.34	CL	CLAY
SITE3	5 - 10	0.51	CL	CLAY
SITE3	5 - 10	0.63	CH	CLAY
SITE3	5 - 10	0.85	CL	CLAY
SITE3	5 - 10	1.20	CL	CLAY
SITE3	5 - 10	1.90	CL	CLAY
SITE3	5 - 10	2.03	CL	CLAY
SITE3	5 - 10	4.40	CH	CLAY
SITE3	5 - 10	4.70	CL	CLAY
SITE3	5 - 10	5.00	CH	CLAY
SITE3	5 - 10	5.30	CL	CLAY
SITE3	5 - 10	1.800	ML	SILT
SITE3	3 - 5	1.20	SM	SAND
SITE3	1 - 3	0.55	GM	GRAV
SITE3	1 - 3	0.430	.	SHAL
SITE3	1 - 3	0.480	.	SHAL
SITE3	1 - 3	1.600	.	SHAL
SITE3	1 - 3	1.680	.	SHAL
SITE3	1 - 3	2.300	.	SHAL
SITE3	1 - 3	2.900	.	SHAL
SITE3	1 - 3	3.400	.	SHAL
SITE3	1 - 3	4.400	.	SHAL

SITE	DEPTH	BECONC	USCS SOIL TYPE	SOIL CLASS
SITE3	1 - 3	6.500	.	SHAL
SITE3	3 - 5	2.000	.	SHAL
SITE3	3 - 5	2.700	.	SHAL
SITE3	3 - 5	4.400	.	SHAL

SITE	DEPTH	BECONC	USCS SOIL TYPE	SOIL CLASS
SITE4	1 - 3	0.70	CL	CLAY
SITE4	1 - 3	1.50	CH	CLAY
SITE4	1 - 3	1.60	CH	CLAY
SITE4	1 - 3	1.60	CH	CLAY
SITE4	1 - 3	1.80	CL	CLAY
SITE4	1 - 3	2.100	CL	CLAY
SITE4	3 - 5	0.350	CL	CLAY
SITE4	3 - 5	1.200	CL	CLAY
SITE4	3 - 5	1.300	CL	CLAY
SITE4	3 - 5	1.700	CH	CLAY
SITE4	3 - 5	2.100	CL	CLAY
SITE4	3 - 5	2.300	CL	CLAY
SITE4	5 - 10	0.115	CL	CLAY
SITE4	5 - 10	0.690	CL	CLAY
SITE4	5 - 10	0.700	CH	CLAY
SITE4	5 - 10	0.850	CL	CLAY
SITE4	5 - 10	1.200	CH	CLAY
SITE4	5 - 10	1.800	CL	CLAY
SITE4	5 - 10	2.200	CL	CLAY
SITE4	5 - 10	2.500	CL	CLAY
SITE4	1 - 3	0.125	ML	SILT
SITE4	1 - 3	0.270	ML	SILT
SITE4	1 - 3	0.390	MH	SILT
SITE4	1 - 3	0.590	ML	SILT
SITE4	1 - 3	0.670	ML	SILT
SITE4	3 - 5	0.125	ML	SILT
SITE4	3 - 5	0.270	ML	SILT
SITE4	3 - 5	0.400	ML	SILT
SITE4	3 - 5	0.420	ML	SILT
SITE4	3 - 5	0.960	ML	SILT
SITE4	3 - 5	1.100	ML	SILT
SITE4	5 - 10	0.230	MH	SILT
SITE4	5 - 10	0.33	ML	SILT
SITE4	5 - 10	0.58	ML	SILT
SITE4	1 - 3	0.43	SP	SAND
SITE4	1 - 3	1.30	SM	SAND
SITE4	3 - 5	0.84	SC	SAND
SITE4	5 - 10	1.30	SW	SAND
SITE4	3 - 5	1.20	GW	GRAV
SITE4	5 - 10	1.20	GW	GRAV

SITE	DEPTH	BECONC	USCS SOIL TYPE	SOIL CLASS
SITE5	1 - 3	0.52	OL	CLAY
SITE5	1 - 3	0.69	OL	CLAY
SITE5	1 - 3	1.30	OH	CLAY
SITE5	1 - 3	2.10	OL	CLAY
SITE5	1 - 3	2.70	OH	CLAY
SITE5	1 - 3	2.90	OH	CLAY
SITE5	1 - 3	3.10	OH	CLAY
SITE5	1 - 3	5.80	OH	CLAY
SITE5	3 - 5	0.31	OL	CLAY
SITE5	3 - 5	0.63	OL	CLAY
SITE5	3 - 5	0.98	OH	CLAY
SITE5	3 - 5	1.20	OH	CLAY
SITE5	3 - 5	3.200	OH	CLAY
SITE5	1 - 3	0.115	CH	CLAY
SITE5	1 - 3	0.125	CH	CLAY
SITE5	1 - 3	0.650	CH	CLAY
SITE5	1 - 3	0.710	CH	CLAY
SITE5	1 - 3	0.730	CH	CLAY
SITE5	1 - 3	0.790	CL	CLAY
SITE5	1 - 3	0.980	CH	CLAY
SITE5	1 - 3	1.100	CH	CLAY
SITE5	1 - 3	1.100	CH	CLAY
SITE5	1 - 3	1.100	CL	CLAY
SITE5	1 - 3	1.200	CH	CLAY
SITE5	1 - 3	1.200	CH	CLAY
SITE5	1 - 3	1.200	CH	CLAY
SITE5	1 - 3	1.400	CH	CLAY
SITE5	1 - 3	1.400	CL	CLAY
SITE5	1 - 3	1.500	CH	CLAY
SITE5	1 - 3	1.500	CL	CLAY
SITE5	1 - 3	1.900	CH	CLAY
SITE5	1 - 3	1.900	CH	CLAY
SITE5	1 - 3	2.100	CH	CLAY
SITE5	1 - 3	2.100	CL	CLAY
SITE5	1 - 3	2.200	CH	CLAY
SITE5	1 - 3	2.400	CL	CLAY
SITE5	1 - 3	3.900	CL	CLAY
SITE5	1 - 3	3.900	CL	CLAY
SITE5	1 - 3	4.000	CH	CLAY
SITE5	3 - 5	0.115	CH	CLAY
SITE5	3 - 5	0.410	CL	CLAY
SITE5	3 - 5	0.450	CL	CLAY
SITE5	3 - 5	0.480	CH	CLAY
SITE5	3 - 5	0.580	CL	CLAY
SITE5	3 - 5	0.690	CH	CLAY
SITE5	3 - 5	0.840	CH	CLAY
SITE5	3 - 5	0.85	CL	CLAY
SITE5	3 - 5	0.93	CH	CLAY
SITE5	3 - 5	0.98	CL	CLAY

SITE	DEPTH	BECONC	USCS SOIL TYPE	SOIL CLASS
SITE5	3 - 5	1.00	CL	CLAY
SITE5	3 - 5	1.20	CH	CLAY
SITE5	3 - 5	1.20	CH	CLAY
SITE5	3 - 5	1.20	CL	CLAY
SITE5	3 - 5	1.20	CL	CLAY
SITE5	3 - 5	1.40	CL	CLAY
SITE5	3 - 5	1.50	CH	CLAY
SITE5	3 - 5	1.60	CH	CLAY
SITE5	3 - 5	1.60	CH	CLAY
SITE5	3 - 5	1.60	CL	CLAY
SITE5	3 - 5	1.80	CL	CLAY
SITE5	3 - 5	2.00	CL	CLAY
SITE5	3 - 5	2.30	CH	CLAY
SITE5	3 - 5	2.80	CL	CLAY
SITE5	3 - 5	2.90	CL	CLAY
SITE5	3 - 5	3.80	CL	CLAY
SITE5	3 - 5	3.80	CL	CLAY
SITE5	3 - 5	4.80	CL	CLAY
SITE5	3 - 5	4.90	CL	CLAY
SITE5	5 - 10	0.12	CH	CLAY
SITE5	5 - 10	0.12	CL	CLAY
SITE5	5 - 10	0.32	CL	CLAY
SITE5	5 - 10	0.39	CL	CLAY
SITE5	5 - 10	0.46	CL	CLAY
SITE5	5 - 10	0.53	CL	CLAY
SITE5	5 - 10	0.64	CL	CLAY
SITE5	5 - 10	0.76	CL	CLAY
SITE5	5 - 10	0.77	CL	CLAY
SITE5	5 - 10	0.84	CL	CLAY
SITE5	5 - 10	0.92	CL	CLAY
SITE5	5 - 10	1.20	CH	CLAY
SITE5	5 - 10	1.30	CL	CLAY
SITE5	5 - 10	1.60	CL	CLAY
SITE5	5 - 10	1.80	CH	CLAY
SITE5	5 - 10	1.80	CL	CLAY
SITE5	5 - 10	1.90	CL	CLAY
SITE5	5 - 10	2.00	CL	CLAY
SITE5	5 - 10	2.00	CL	CLAY
SITE5	5 - 10	2.20	CL	CLAY
SITE5	5 - 10	2.40	CH	CLAY
SITE5	5 - 10	2.60	CL	CLAY
SITE5	5 - 10	3.00	CL	CLAY
SITE5	5 - 10	3.40	CL	CLAY
SITE5	5 - 10	3.40	CL	CLAY
SITE5	5 - 10	5.70	CL	CLAY
SITE5	1 - 3	3.10	ML	SILT
SITE5	3 - 5	1.40	ML	SILT
SITE5	3 - 5	1.800	ML	SILT
SITE5	3 - 5	3.000	ML	SILT

SITE	DEPTH	BECONC	USCS SOIL TYPE	SOIL CLASS
SITE5	3 - 5	3.000	ML	SILT
SITE5	5 - 10	0.115	ML	SILT
SITE5	5 - 10	0.670	ML	SILT
SITE5	5 - 10	1.300	ML	SILT
SITE5	5 - 10	2.000	ML	SILT
SITE5	5 - 10	2.800	ML	SILT
SITE5	3 - 5	0.11	SM	SAND
SITE5	3 - 5	0.11	SM	SAND
SITE5	3 - 5	0.54	SM	SAND
SITE5	5 - 10	0.23	SM	SAND
SITE5	5 - 10	0.31	SC	SAND
SITE5	5 - 10	0.62	SM	SAND
SITE5	5 - 10	0.82	SC	SAND
SITE5	5 - 10	0.89	SC	SAND
SITE5	5 - 10	1.80	SM	SAND
SITE5	5 - 10	3.00	SW	SAND
SITE5	1 - 3	0.74	GM	GRAV
SITE5	1 - 3	5.80	GM	GRAV
SITE5	3 - 5	0.75	GW	GRAV
SITE5	5 - 10	0.48	GW	GRAV
SITE5	5 - 10	1.70	GW	GRAV
SITE5	5 - 10	4.40	GC	GRAV
SITE5	1 - 3	2.200	.	SHAL
SITE5	1 - 3	2.900	.	SHAL
SITE5	1 - 3	3.300	.	SHAL
SITE5	3 - 5	0.350	.	SHAL
SITE5	3 - 5	0.370	.	SHAL
SITE5	3 - 5	1.500	.	SHAL
SITE5	3 - 5	2.300	.	SHAL
SITE5	3 - 5	3.500	.	SHAL
SITE5	5 - 10	0.610	.	SHAL
SITE5	5 - 10	0.630	.	SHAL
SITE5	5 - 10	0.640	.	SHAL
SITE5	5 - 10	1.000	.	SHAL
SITE5	5 - 10	3.700	.	SHAL

SITE	DEPTH	BECONC	USCS SOIL TYPE	SOIL CLASS
SITE6	1 - 3	0.60	CH	CLAY
SITE6	1 - 3	0.84	CH	CLAY
SITE6	3 - 5	0.53	CH	CLAY
SITE6	3 - 5	0.69	CH	CLAY
SITE6	5 - 10	0.60	CL	CLAY
SITE6	1 - 3	0.410	ML	SILT
SITE6	5 - 10	0.630	ML	SILT
SITE6	5 - 10	0.460	SC	SAND

SITE	DEPTH	BECONC	USCS SOIL TYPE	SOIL CLASS
SITE7	1 - 3	0.970	FILL	
SITE7	1 - 3	0.06	CL	CLAY
SITE7	1 - 3	1.40	CL	CLAY
SITE7	1 - 3	2.10	CL	CLAY
SITE7	1 - 3	3.00	CL	CLAY
SITE7	3 - 5	1.10	CH	CLAY
SITE7	3 - 5	1.80	CL	CLAY
SITE7	3 - 5	2.30	CL	CLAY
SITE7	3 - 5	3.30	CL	CLAY
SITE7	5 - 10	0.06	CL	CLAY
SITE7	5 - 10	1.70	CL	CLAY
SITE7	5 - 10	1.80	CL	CLAY
SITE7	5 - 10	3.4	CL	CLAY
SITE7	5 - 10	0.600	ML	SILT
SITE7	1 - 3	0.520	SC	SAND
SITE7	3 - 5	0.065	SC	SAND
SITE7	3 - 5	1.900	SC	SAND
SITE7	5 - 10	2.000	SC	SAND
SITE7	1 - 3	0.055	.	SHAL
SITE7	1 - 3	0.070	.	SHAL
SITE7	3 - 5	0.055	.	SHAL
SITE7	3 - 5	0.065	.	SHAL
SITE7	3 - 5	0.065	.	SHAL
SITE7	5 - 10	0.060	.	SHAL
SITE7	5 - 10	0.065	.	SHAL
SITE7	5 - 10	0.070	.	SHAL

SITE	DEPTH	BECONC	USCS SOIL TYPE	SOIL CLASS
SITE8	1 - 3	1.5	CL	CLAY
SITE8	1 - 3	2.4	CL	CLAY
SITE8	1 - 3	2.6	CL	CLAY
SITE8	1 - 3	2.8	CL	CLAY
SITE8	1 - 3	3.9	CL	CLAY
SITE8	3 - 5	2.4	CL	CLAY
SITE8	3 - 5	2.7	CL	CLAY
SITE8	3 - 5	3.4	CL	CLAY
SITE8	3 - 5	3.6	CL	CLAY
SITE8	3 - 5	4.2	CL	CLAY
SITE8	5 - 10	1.9	CL	CLAY
SITE8	5 - 10	2.5	CL	CLAY
SITE8	5 - 10	2.8	CL	CLAY
SITE8	5 - 10	3.7	CL	CLAY
SITE8	5 - 10	3.7	CL	CLAY
SITE8	5 - 10	3.900	CH	CLAY
SITE8	1 - 3	3.300	ML	SILT
SITE8	3 - 5	4.200	ML	SILT
SITE8	3 - 5	4.800	ML	SILT
SITE8	5 - 10	3.400	ML	SILT
SITE8	5 - 10	3.900	ML	SILT
SITE8	1 - 3	3.600	SM	SAND
SITE8	1 - 3	3.100	GM	GRAV
SITE8	3 - 5	3.600	GM	GRAV
SITE8	1 - 3	0.055	.	SHAL
SITE8	1 - 3	0.055	.	SHAL
SITE8	1 - 3	0.055	.	SHAL
SITE8	1 - 3	0.060	.	SHAL
SITE8	1 - 3	0.060	.	SHAL
SITE8	1 - 3	0.065	.	SHAL
SITE8	1 - 3	0.065	.	SHAL
SITE8	1 - 3	0.065	.	SHAL
SITE8	1 - 3	0.065	.	SHAL
SITE8	1 - 3	0.065	.	SHAL
SITE8	1 - 3	0.070	.	SHAL
SITE8	1 - 3	0.070	.	SHAL
SITE8	1 - 3	0.070	.	SHAL
SITE8	3 - 5	0.060	.	SHAL
SITE8	3 - 5	0.060	.	SHAL
SITE8	3 - 5	0.065	.	SHAL
SITE8	3 - 5	0.065	.	SHAL
SITE8	3 - 5	0.065	.	SHAL
SITE8	3 - 5	0.065	.	SHAL
SITE8	3 - 5	0.070	.	SHAL
SITE8	3 - 5	0.070	.	SHAL
SITE8	3 - 5	0.070	.	SHAL
SITE8	3 - 5	0.070	.	SHAL
SITE8	3 - 5	0.075	.	SHAL

SITE	DEPTH	BECONC	USCS SOIL TYPE	SOIL CLASS
SITE8	3 - 5	0.075	.	SHAL
SITE8	3 - 5	0.075	.	SHAL

SITE	DEPTH	BECONC	USCS SOIL TYPE	SOIL CLASS
SITE9	1 - 3	0.070	OH	CLAY
SITE9	1 - 3	0.690	OL	CLAY
SITE9	1 - 3	0.910	OH	CLAY
SITE9	3 - 5	1.300	OL	CLAY
SITE9	5 - 10	0.115	OH	CLAY
SITE9	1 - 3	0.065	CL	CLAY
SITE9	1 - 3	0.100	CL	CLAY
SITE9	1 - 3	0.230	CL	CLAY
SITE9	1 - 3	0.115	CL	CLAY
SITE9	1 - 3	0.115	CL	CLAY
SITE9	1 - 3	0.120	CL	CLAY
SITE9	1 - 3	0.125	CL	CLAY
SITE9	1 - 3	0.130	CL	CLAY
SITE9	1 - 3	0.130	CL	CLAY
SITE9	1 - 3	0.130	CL	CLAY
SITE9	1 - 3	0.130	CL	CLAY
SITE9	1 - 3	0.560	CL	CLAY
SITE9	1 - 3	0.580	CL	CLAY
SITE9	1 - 3	0.610	CH	CLAY
SITE9	1 - 3	0.640	CL	CLAY
SITE9	1 - 3	0.730	CL	CLAY
SITE9	1 - 3	0.840	CL	CLAY
SITE9	1 - 3	0.500	CL	CLAY
SITE9	1 - 3	0.500	CL	CLAY
SITE9	1 - 3	1.100	CL	CLAY
SITE9	1 - 3	1.200	CL	CLAY
SITE9	1 - 3	1.600	CL	CLAY
SITE9	3 - 5	0.070	CL	CLAY
SITE9	3 - 5	0.110	CL	CLAY
SITE9	3 - 5	0.220	CL	CLAY
SITE9	3 - 5	0.115	CL	CLAY
SITE9	3 - 5	0.120	CL	CLAY
SITE9	3 - 5	0.120	CL	CLAY
SITE9	3 - 5	0.120	CL	CLAY
SITE9	3 - 5	0.120	CL	CLAY
SITE9	3 - 5	0.125	CL	CLAY
SITE9	3 - 5	0.125	CL	CLAY
SITE9	3 - 5	0.290	CL	CLAY
SITE9	3 - 5	0.300	CH	CLAY
SITE9	3 - 5	0.320	CH	CLAY
SITE9	3 - 5	0.320	CL	CLAY
SITE9	3 - 5	0.350	CL	CLAY
SITE9	3 - 5	0.470	CL	CLAY
SITE9	3 - 5	0.480	CL	CLAY
SITE9	3 - 5	0.540	CL	CLAY
SITE9	3 - 5	0.550	CL	CLAY
SITE9	3 - 5	0.630	CL	CLAY
SITE9	3 - 5	0.730	CL	CLAY
SITE9	3 - 5	0.870	CL	CLAY

SITE	DEPTH	BECONC	USCS SOIL TYPE	SOIL CLASS
SITE9	3 - 5	0.500	CL	CLAY
SITE9	3 - 5	0.500	CL	CLAY
SITE9	3 - 5	2.900	CL	CLAY
SITE9	5 - 10	0.055	CL	CLAY
SITE9	5 - 10	0.115	CL	CLAY
SITE9	5 - 10	0.120	CL	CLAY
SITE9	5 - 10	0.125	CL	CLAY
SITE9	5 - 10	0.125	CL	CLAY
SITE9	5 - 10	0.340	CL	CLAY
SITE9	5 - 10	0.360	CH	CLAY
SITE9	5 - 10	0.360	CL	CLAY
SITE9	5 - 10	0.380	CL	CLAY
SITE9	5 - 10	0.210	CL	CLAY
SITE9	5 - 10	0.480	CL	CLAY
SITE9	5 - 10	0.510	CL	CLAY
SITE9	5 - 10	0.560	CL	CLAY
SITE9	5 - 10	0.570	CL	CLAY
SITE9	5 - 10	0.720	CL	CLAY
SITE9	5 - 10	0.970	CL	CLAY
SITE9	5 - 10	0.50	CL	CLAY
SITE9	1 - 3	0.240	ML	SILT
SITE9	1 - 3	0.120	ML	SILT
SITE9	1 - 3	0.125	ML	SILT
SITE9	1 - 3	0.125	ML	SILT
SITE9	1 - 3	0.125	ML	SILT
SITE9	1 - 3	0.310	ML	SILT
SITE9	1 - 3	0.340	ML	SILT
SITE9	1 - 3	1.300	ML	SILT
SITE9	1 - 3	2.500	ML	SILT
SITE9	3 - 5	0.070	ML	SILT
SITE9	3 - 5	0.110	ML	SILT
SITE9	3 - 5	0.110	ML	SILT
SITE9	3 - 5	0.240	ML	SILT
SITE9	3 - 5	0.120	ML	SILT
SITE9	3 - 5	0.125	ML	SILT
SITE9	3 - 5	0.670	ML	SILT
SITE9	3 - 5	0.700	ML	SILT
SITE9	3 - 5	0.710	ML	SILT
SITE9	3 - 5	1.100	ML	SILT
SITE9	5 - 10	0.110	ML	SILT
SITE9	5 - 10	0.115	ML	SILT
SITE9	5 - 10	0.120	ML	SILT
SITE9	5 - 10	0.270	ML	SILT
SITE9	5 - 10	0.290	ML	SILT
SITE9	5 - 10	0.330	ML	SILT
SITE9	5 - 10	0.480	ML	SILT
SITE9	5 - 10	0.67	ML	SILT
SITE9	5 - 10	0.71	ML	SILT
SITE9	5 - 10	0.50	ML	SILT

SITE	DEPTH	BECONC	USCS SOIL TYPE	SOIL CLASS
SITE9	5 - 10	1.70	ML	SILT
SITE9	5 - 10	2.10	ML	SILT
SITE9	1 - 3	0.110	SW	SAND
SITE9	1 - 3	0.130	SP	SAND
SITE9	1 - 3	0.380	SM	SAND
SITE9	3 - 5	0.095	SC	SAND
SITE9	3 - 5	0.110	SW	SAND
SITE9	3 - 5	0.130	SM	SAND
SITE9	5 - 10	0.200	SP	SAND
SITE9	5 - 10	0.105	SP	SAND
SITE9	5 - 10	0.110	SC	SAND
SITE9	5 - 10	0.110	SC	SAND
SITE9	5 - 10	0.110	SP	SAND
SITE9	5 - 10	0.530	SP	SAND
SITE9	5 - 10	0.980	SW	SAND
SITE9	1 - 3	0.250	GM	GRAV
SITE9	1 - 3	0.410	GC	GRAV
SITE9	5 - 10	0.060	GW	GRAV
SITE9	5 - 10	0.480	GW	GRAV
SITE9	1 - 3	0.070	.	SHAL
SITE9	1 - 3	0.095	.	SHAL
SITE9	1 - 3	2.000	.	SHAL
SITE9	3 - 5	0.065	.	SHAL
SITE9	3 - 5	0.065	.	SHAL
SITE9	3 - 5	2.500	.	SHAL
SITE9	5 - 10	0.055	.	SHAL
SITE9	5 - 10	0.065	.	SHAL
SITE9	5 - 10	2.400	.	SHAL

SITE	DEPTH	BECONC	USCS SOIL TYPE	SOIL CLASS
SITE10	3 - 5	1.200	FILL	
SITE10	5 - 10	1.600	FILL	
SITE10	1 - 3	0.830	CL	CLAY
SITE10	3 - 5	0.930	CL	CLAY
SITE10	5 - 10	0.680	CL	CLAY
SITE10	5 - 10	1.200	SM	SAND

SITE	DEPTH	BECONC	USCS SOIL TYPE	SOIL CLASS
SITE11	5 - 10	5.500	CH	CLAY
SITE11	1 - 3	4.100	SW	SAND
SITE11	5 - 10	5.000	SW	SAND
SITE11	1 - 3	4.80	GM	GRAV
SITE11	1 - 3	0.055	.	SHAL
SITE11	1 - 3	0.055	.	SHAL
SITE11	1 - 3	0.055	.	SHAL
SITE11	1 - 3	0.055	.	SHAL
SITE11	1 - 3	0.055	.	SHAL
SITE11	1 - 3	0.055	.	SHAL
SITE11	1 - 3	0.055	.	SHAL
SITE11	1 - 3	0.060	.	SHAL
SITE11	1 - 3	0.060	.	SHAL
SITE11	1 - 3	0.060	.	SHAL
SITE11	1 - 3	0.060	.	SHAL
SITE11	1 - 3	0.060	.	SHAL
SITE11	1 - 3	0.060	.	SHAL
SITE11	1 - 3	0.060	.	SHAL
SITE11	1 - 3	0.060	.	SHAL
SITE11	1 - 3	0.060	.	SHAL
SITE11	1 - 3	0.060	.	SHAL
SITE11	1 - 3	0.065	.	SHAL
SITE11	1 - 3	0.065	.	SHAL
SITE11	1 - 3	0.140	.	SHAL
SITE11	1 - 3	0.080	.	SHAL
SITE11	1 - 3	0.180	.	SHAL
SITE11	1 - 3	0.310	.	SHAL
SITE11	1 - 3	0.340	.	SHAL
SITE11	1 - 3	1.400	.	SHAL
SITE11	1 - 3	1.500	.	SHAL
SITE11	1 - 3	1.600	.	SHAL
SITE11	3 - 5	1.100	.	SHAL
SITE11	3 - 5	1.300	.	SHAL
SITE11	5 - 10	0.055	.	SHAL
SITE11	5 - 10	0.055	.	SHAL
SITE11	5 - 10	0.060	.	SHAL
SITE11	5 - 10	0.060	.	SHAL
SITE11	5 - 10	0.065	.	SHAL
SITE11	5 - 10	0.065	.	SHAL
SITE11	5 - 10	0.070	.	SHAL
SITE11	5 - 10	0.070	.	SHAL
SITE11	5 - 10	0.140	.	SHAL
SITE11	5 - 10	0.070	.	SHAL
SITE11	5 - 10	0.075	.	SHAL
SITE11	5 - 10	0.080	.	SHAL
SITE11	5 - 10	0.170	.	SHAL
SITE11	5 - 10	0.085	.	SHAL
SITE11	5 - 10	1.300	.	SHAL
SITE11	5 - 10	1.500	.	SHAL

SITE	DEPTH	BECONC	USCS SOIL TYPE	SOIL CLASS
SITE12	1 - 3	0.055	.	SHAL
SITE12	1 - 3	0.055	.	SHAL
SITE12	1 - 3	0.060	.	SHAL
SITE12	1 - 3	0.060	.	SHAL
SITE12	1 - 3	0.060	.	SHAL
SITE12	1 - 3	0.065	.	SHAL
SITE12	1 - 3	0.065	.	SHAL
SITE12	1 - 3	0.065	.	SHAL
SITE12	1 - 3	0.065	.	SHAL
SITE12	1 - 3	0.065	.	SHAL
SITE12	1 - 3	0.070	.	SHAL
SITE12	1 - 3	0.070	.	SHAL
SITE12	1 - 3	1.700	.	SHAL
SITE12	1 - 3	2.600	.	SHAL
SITE12	1 - 3	2.900	.	SHAL
SITE12	3 - 5	0.060	.	SHAL
SITE12	3 - 5	0.060	.	SHAL
SITE12	3 - 5	0.060	.	SHAL
SITE12	3 - 5	0.060	.	SHAL
SITE12	3 - 5	0.060	.	SHAL
SITE12	3 - 5	0.060	.	SHAL
SITE12	3 - 5	0.060	.	SHAL
SITE12	3 - 5	0.065	.	SHAL
SITE12	3 - 5	0.065	.	SHAL
SITE12	3 - 5	0.065	.	SHAL
SITE12	3 - 5	0.065	.	SHAL
SITE12	3 - 5	0.065	.	SHAL
SITE12	3 - 5	0.070	.	SHAL
SITE12	3 - 5	1.400	.	SHAL
SITE12	3 - 5	2.000	.	SHAL
SITE12	3 - 5	2.500	.	SHAL
SITE12	5 - 10	0.055	.	SHAL
SITE12	5 - 10	0.055	.	SHAL
SITE12	5 - 10	0.060	.	SHAL
SITE12	5 - 10	0.060	.	SHAL
SITE12	5 - 10	0.065	.	SHAL
SITE12	5 - 10	0.065	.	SHAL
SITE12	5 - 10	0.065	.	SHAL
SITE12	5 - 10	0.065	.	SHAL
SITE12	5 - 10	0.065	.	SHAL
SITE12	5 - 10	0.070	.	SHAL
SITE12	5 - 10	0.070	.	SHAL
SITE12	5 - 10	1.300	.	SHAL
SITE12	5 - 10	2.100	.	SHAL
SITE12	5 - 10	2.600	.	SHAL

SITE	DEPTH	BECONC	USCS SOIL TYPE	SOIL CLASS
SITE13	1 - 3	0.055	.	SHAL
SITE13	1 - 3	0.060	.	SHAL
SITE13	1 - 3	0.065	.	SHAL
SITE13	1 - 3	0.065	.	SHAL
SITE13	5 - 10	0.060	.	SHAL
SITE13	5 - 10	0.060	.	SHAL
SITE13	5 - 10	0.065	.	SHAL
SITE13	5 - 10	0.065	.	SHAL

SITE	DEPTH	BECONC	USCS SOIL TYPE	SOIL CLASS
SITE14	1 - 3	0.230	OL	CLAY
SITE14	1 - 3	4.300	OL	CLAY
SITE14	3 - 5	0.520	OL	CLAY
SITE14	1 - 3	0.065	CL	CLAY
SITE14	1 - 3	0.680	CL	CLAY
SITE14	1 - 3	2.600	CL	CLAY
SITE14	1 - 3	4.000	CH	CLAY
SITE14	1 - 3	5.600	CL	CLAY
SITE14	3 - 5	0.065	CL	CLAY
SITE14	3 - 5	0.065	CL	CLAY
SITE14	3 - 5	0.210	CL	CLAY
SITE14	3 - 5	0.460	CL	CLAY
SITE14	3 - 5	2.800	CL	CLAY
SITE14	3 - 5	2.800	CL	CLAY
SITE14	3 - 5	3.100	CL	CLAY
SITE14	3 - 5	5.500	CL	CLAY
SITE14	5 - 10	0.065	CL	CLAY
SITE14	5 - 10	0.065	CL	CLAY
SITE14	5 - 10	0.290	CH	CLAY
SITE14	5 - 10	0.410	CL	CLAY
SITE14	5 - 10	0.790	CL	CLAY
SITE14	5 - 10	2.600	CL	CLAY
SITE14	5 - 10	3.000	CL	CLAY
SITE14	5 - 10	3.400	CL	CLAY
SITE14	5 - 10	4.800	CL	CLAY
SITE14	1 - 3	0.060	SC	SAND
SITE14	1 - 3	0.06	GM	GRAV

SITE	DEPTH	BECONC	USCS SOIL TYPE	SOIL CLASS
SITE19	1 - 3	2.100	OL	CLAY
SITE19	3 - 5	2.300	OH	CLAY
SITE19	3 - 5	2.300	OL	CLAY
SITE19	3 - 5	3.000	OL	CLAY
SITE19	5 - 10	3.200	OL	CLAY
SITE19	1 - 3	0.115	CL	CLAY
SITE19	3 - 5	2.900	CL	CLAY
SITE19	5 - 10	0.060	CL	CLAY
SITE19	5 - 10	0.065	CL	CLAY
SITE19	5 - 10	0.940	CL	CLAY
SITE19	5 - 10	1.400	CL	CLAY
SITE19	5 - 10	2.300	CL	CLAY
SITE19	5 - 10	2.400	CL	CLAY
SITE19	5 - 10	2.700	CL	CLAY
SITE19	5 - 10	3.200	CL	CLAY
SITE19	1 - 3	0.055	SM	SAND
SITE19	1 - 3	2.000	SC	SAND
SITE19	1 - 3	2.000	SC	SAND
SITE19	1 - 3	2.100	SC	SAND
SITE19	1 - 3	3.500	SC	SAND
SITE19	3 - 5	0.055	SM	SAND
SITE19	3 - 5	2.70	SC	SAND
SITE19	1 - 3	0.93	GM	GRAV
SITE19	1 - 3	1.70	GM	GRAV
SITE19	3 - 5	0.23	GC	GRAV
SITE19	3 - 5	1.20	GM	GRAV