



Appendix H

**Analysis of Background Metals Former Avila Tank Farm
Addendum No. 2**



May 18, 2008

Project No. 1190.002

Mr. Josh Fridell
Project Manager
CHEVRON EMC
276 Tank Farm Road
San Luis Obispo, California 93406

Addendum No. 2
Analysis of Background Metals
Former Avila Tank Farm
Avila Beach, California

Dear Mr. Fridell:

To evaluate the former Avila Tank Farm (Site) for potential future uses, Chevron retained contactors to prepare human and ecological risk assessments. To ensure that these documents addressed regulatory concerns, Chevron assembled the Avila Tank Farm Collaborative Assessment Team (ATCAT), a stakeholder group including representatives from San Luis Obispo County and the State of California. One of the first tasks undertaken by the ATCAT was identification of the constituents of potential concern (COPCs) at the Site. With regard to inorganic constituents (i.e., metals), this first required identification of background constituents and concentrations. A report entitled Final Draft, Analysis of Background Metals, Unocal Avila Tank Farm, Avila Beach, California (Report), was cooperatively prepared by Avocet Environmental, Inc. (Avocet) and BBL Sciences, Inc. (BBL) and submitted to the ATCAT on September 10, 2004. Since that time, two issues have arisen prompting this second addendum to the Report. The first pertains to the fact that since the Report was prepared 114 additional soil samples have been collected at the Site and tested for the presence of the 17 California Assessment Manual (CAM) metals. For the most part, the results of these additional tests were within the historical range of concentrations. Two exceptions included barium (Ba) and molybdenum (Mo), which were detected in at least one sample at concentrations greater than the historical maximum. The other issue relates to the discovery that twenty thallium (Tl) samples represented as non-detects (less than [$<$] 5 milligrams per kilogram [mg/kg]) in the Report actually contained reportable concentrations ranging from 5.5 to 10 mg/kg. The purpose of this second addendum to the Report is to address these additional detections of Ba, Mo, and Tl and determine whether they are elevated above background concentrations.

BACKGROUND

Detailed discussions of the approach (comparative data assessment and spatial analysis), site background and geology are presented in the Report and will not be reiterated herein. In brief, Site and background soil and bedrock soil samples were analyzed by a state-certified

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environmental testing laboratory for the 17 CAM metals. The vast majority of these samples were tested by ZymaX envirotechnology, Inc. (ZymaX); but ZymaX stopped accepting samples in April 2005 and subsequent tests were conducted by BC Labs (2005 to 2007) and TestAmerica (2008). Some of the variability observed in the data set may be attributable to this difference. For the metals considered herein (Ba, Mo, and Tl) the data set (on-site and background) consists of 396 samples. The background data set consists of 19 samples, all of which were collected from 11 off-site locations underlain by geologic materials similar to those occurring on site. The on-site data set consists of 377 samples for all metals. The background and on-site sample locations are depicted on Figure 1. Nondetect values were assigned a concentration equal to one-half the detection limit for all statistical and graphical analyses. Table 1 summarizes the analytical data for Ba, Mo, and Tl and the complete data sets are included in Attachment 1.

Table 1
Summary of Metals Analytical Data
(Concentrations in wet weights)

Metal	Practical Quantitation Limit(s) (mg/kg)	Total Number of Analyses	Total Number of Detectable Values	Percent of Detectable Values	Range of Concentrations Detected (mg/kg)
Barium	0.5	396	396	100%	1.3 to 970
Molybdenum	1, 2, 2.5, 4, 12 ⁽¹⁾	396	89	22%	1.0 to 37
Thallium	5, 9.9, 10, 20 ⁽²⁾	396	27	7%	0.74J to 16

Notes: (1) The vast majority of PQLs for barium are <1 and <2 mg/kg.

(2) The vast majority of PQLs for thallium are <5 and <9.9 or <10 mg/kg.

COMPARATIVE METHODS

Statistical Methods

Two comparative methods were used to evaluate the on- and off-site data in this assessment: 1) a statistical analysis, which included comparisons of central tendency and upper tails of the on- and off-site data sets; and 2) an exploratory data analysis, which included evaluation of cumulative probability plots and box plots of the complete data set.

The statistical evaluation consisted of three main steps. First the distribution of the each data set was tested (using either the Shapiro-Wilks or Lilliefors test). Second, the central tendencies of the site and background data sets were compared (depending on the distribution of the data set, either parametric or nonparametric analyses were used [i.e., t-test, Wilcoxon Rank Sum/Mann Whitney U Test, Gehan Test, or the Two Sample Test of Proportion]). Third, the upper tails of the site and background data sets were compared (using the Quantile test)¹. ProUCL was used to perform the Quantile tests.

¹ In the Report, both the Slippage and Quantile tests were used to compare the upper tails of the Site and background data sets. However, only the Quantile test was performed in this re-evaluation since the Slippage test is no longer

Graphical Methods

Graphical methods were employed to aid in the characterization of background metals concentrations at the Site. The technique utilizes cumulative probability plots to estimate threshold values between anomalous and background populations and to identify apparent data distributions and outliers. For the purposes of this document, anomalous populations are defined as data points that are inconsistent with what would naturally be expected. Anomalous data points, indicated by an inflection in the plot, may be, but are not necessarily, indicators of anthropogenic contamination.

Two probability graphs were prepared for each of the three metals – one with concentrations plotted on an arithmetic scale and the other with concentrations plotted on a logarithmic scale. Each of the logarithmic plots includes three curves:

- One comprised of all available samples (including samples from on-site and off-site locations)
- A second comprised of all off-site samples
- A third comprised of all samples collected at depths of 10 feet or greater. This curve was added to supplement the off-site samples curve due to the low potential for metals contamination at depth at petroleum sites.

The probability plots used to identify the background threshold concentrations for the metals are presented in Attachment 2.

Spatial Methods

To aid in the discrimination of hot spots, the data were color-coded by probability quartile – first quartile (0 to 25 percent) green; second quartile (25 to 50 percent) blue; third quartile (50 to 75 percent) yellow; fourth quartile (75 to 100 percent) orange – and plotted on the figures. For metals with large numbers of nondetect data (Mo and Tl), only the detect values were considered in the quartile plots. Where anomalous populations were identified, the anomalous data points were color-coded red and are also depicted in the figures. At data points with multiple samples, the data point was color-coded according to the highest concentration detected. All concentrations shown on the plots are for wet weight analysis.

RESULTS

Summary statistics and the results of the comparative statistics, including box and whisker plots, are presented in the following sections, which address each of the metals individually. The results of the spatial analysis, including the cumulative probability plots and maps of the sample

supported by our statistical software. Since both tests compare the upper tails in a very similar method, this change should not affect the results.

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concentrations color-coded by quartile, are presented in the Figures and Attachment 2 following the text of this report.

Barium

All 396 samples tested for the presence of barium (Ba) contained detectable concentrations ranging from 1.3 to 970 mg/kg (Attachment 1). Ba concentrations in off-site samples range from 6.8 to 750 mg/kg. Descriptive statistics for Ba can be found in Table 2. A comparison of the site and background Ba data sets is illustrated in the box and whisker plots shown below. As can be seen, the background data set has a higher median concentration and larger interquartile range, while the site population contains a greater number of values characterized as “outliers.” Table 3 presents the output of the distribution tests and Table 4 the results of the comparative statistics. Because of its nonnormal distribution, the Mann-Whitney Test was conducted. Based on the statistical evaluations, it is concluded that the site and background medians are significantly different; however, the background median is greater than the site median. The results of the Quantile test indicate that the tails of the site and background distributions are not significantly different.

Table 2: Descriptive Statistics for Barium

Data	Valid N	Mean	Median	Min	Max	Percentile* 95	Percentile* 99	Variance	Std.Dev.	CV
Ba - All	396	76.80	54	1.3	970	180	550.8	9430.83	97.11	1.26
Ba - On-site	377	73.47	54	1.3	970	170	529.2	8039.55	89.66	1.22
Ba - Bkgrd	19	143.02	94	6.8	750	1.7	1.9	34156.21	184.81	1.29

Table 3: Summary of Distribution Tests for Barium

Data	N	Lilliefors p	Shapiro-Wilks		Distribution	Result	Outcome
			W	p			
Ba - On-site	377	p < .01	NA	NA	not normal	non-parametric	Conduct Mann- Whitney
LN(Ba - On-site)	377	p < .01	NA	NA	not lognormal		
Ba - Bkgrd	19	NA	0.6700	0.0000	not normal	lognormal	
LN(Ba - Bkgrd)	19	NA	0.9530	0.4410	lognormal		

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Box and Whisker Plots for Barium – Logarithmic Scale (Left), Arithmetic Scale (Right)

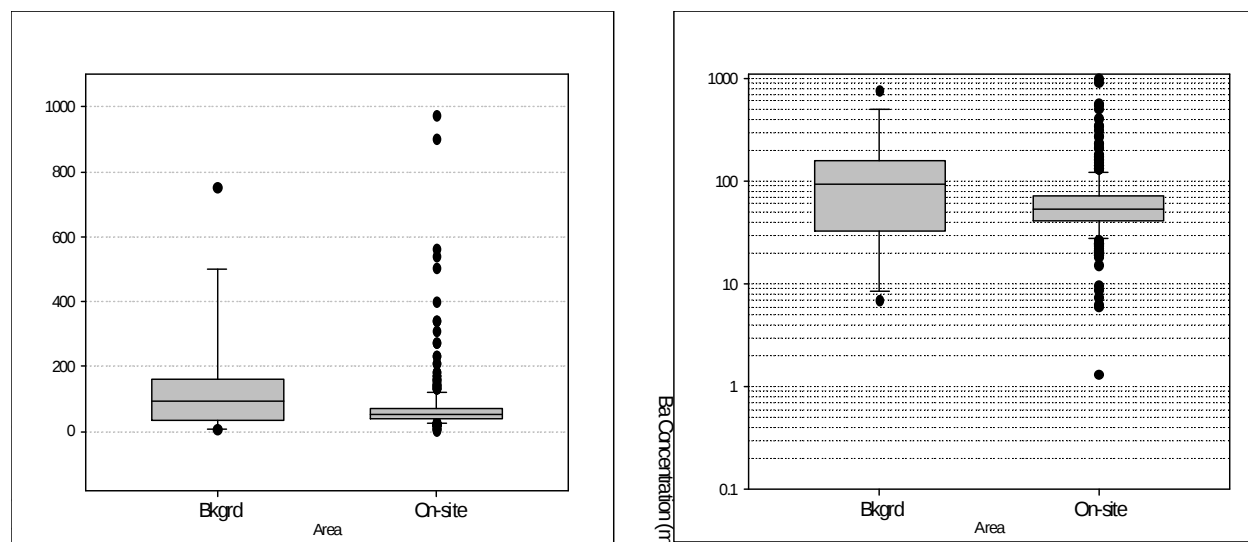


Table 4: Summary of Statistical Comparisons for Barium

Test	p or $R_{largest} \leq K$	Result	Outcome
Gehan Test Mann Whitney Two Sample Test of Proportions	0.04	BG median is significantly higher than the site median	Site is not elevated above BG
Quantile Test	$R_{largest} < K$	Site upper tail not greater than background upper tail	

Arithmetic and logarithmic probability plots of the Ba data are included in Attachment 2 and a plot of the concentration quartiles (samples with detectable concentrations only) is presented as Figure 2. The probability plots are interpreted to show the presence of at least two partially overlapping background populations. Although the median Ba concentrations in Obispo and Pismo Formation samples are not significantly different (approximately 41 mg/kg), the mean concentrations are (76 versus 45 mg/kg, respectively), indicating that the range of values (and maximum concentrations) present in the Obispo Formation is much greater than the range and maximum concentrations in the Pismo Formation. Two of the six highest Ba concentrations, including the third highest concentration (750 mg/kg), were measured in off-site samples collected from areas underlain by the Obispo Formation. Five of the ten samples containing the highest barium concentrations, including the two samples with the highest concentrations, were described as containing a substantial asphaltic component. These samples were collected from borings and trenches excavated on the southeast terrace – east of Fossil Point.

Inspection of the probability plots indicates a possible inflection point at a concentration of about 230 mg/kg. However, the presence of two off-site samples with Ba concentrations in excess of 230 mg/kg (500 and 750 mg/kg) indicates that naturally occurring Ba concentrations of 750 mg/kg (or greater) are possible. Therefore, the apparent 230 mg/kg inflection point probably marks a separation between background populations and not an anomalous population created by

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anthropomorphic contribution. Inspection of Figure 3 indicates that Ba concentrations are evenly distributed around the site. Although it is possible that the Ba in samples containing asphalt from the southeast terrace reflect an anthropomorphic contribution, given the probability and quartile map plots, Ba is not considered to be present at the site at concentrations significantly greater than background.

Molybdenum

Of the 396 soil and rock samples tested for the presence of molybdenum (Mo), 89 (or 22 percent) contained detectable concentrations (1.0 to 37 mg/kg). Three off-site samples contained detectable Mo concentrations in the range of 1.2 to 2.2 mg/kg. Descriptive statistics for Mo can be found in Table 5. A comparison of the site and background Mo data sets is illustrated in the box and whisker plots. Due to the large number of less-than values, the site and background data sets have similar medians (equal to one-half the detection limit), neither data set exhibits a significant range or interquartile range (the range depicted reflects the range of non-detected values [half of <1.0 to <2.0 mg/kg]), and most of the detected values are characterized as outliers. The Site data set contains a greater number of detected and, therefore, outlier values than the background data set. Table 6 presents the output of the distribution tests and Table 7 the results of the comparative statistics. Due to the large number of less-than values, the site and background populations were compared using the Two-Sample Test of Proportions. However, because the background data set contains so few detected values, the test assumptions were violated and a test statistic could not be calculated. The results of the Quantile test indicate that the right tail (largest values) of the Site data set is greater than the upper (right) tail of the background data set. This is more likely a reflection of the much greater number of detected values in the Site data set than it is an indication that the data sets are statistically different.

Table 5: Descriptive Statistics for Molybdenum

Data	Valid N	Mean	Median	Minimum	Maximum	Percentile* 95	Percentile* 99	Variance	Std.Dev.	CV
Mo - All	396	0.94	0.5	0.5	37	4.44	9.356	5.73	2.39	1.84
Mo - On-site	377	0.95	0.5	0.5	37	4.565	9.622	5.99	2.45	1.84
Mo - Bkgrd	19	0.67	0.5	0.5	2.2	1.84	2.2	0.20	0.45	0.67

Table 6: Summary of Distribution Tests for Molybdenum

Data	N	Lilliefors p	Shapiro-Wilks		Distribution	Result	Outcome
			W	p			
Mo - On-site	377	p < .01	NA	NA	not normal	non-parametric	Two-sample test of proportions due to low frequency of detects
LN(Mo - On-site)	377	p < .01	NA	NA	not lognormal	non-parametric	
Mo - Bkgrd	19	NA	0.4580	0	not normal	non-parametric	
LN(Mo - Bkgrd)	19	NA	0.4710	0	not lognormal	non-parametric	

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Box and Whisker Plots for Molybdenum – Logarithmic Scale (Left), Arithmetic Scale (Right)

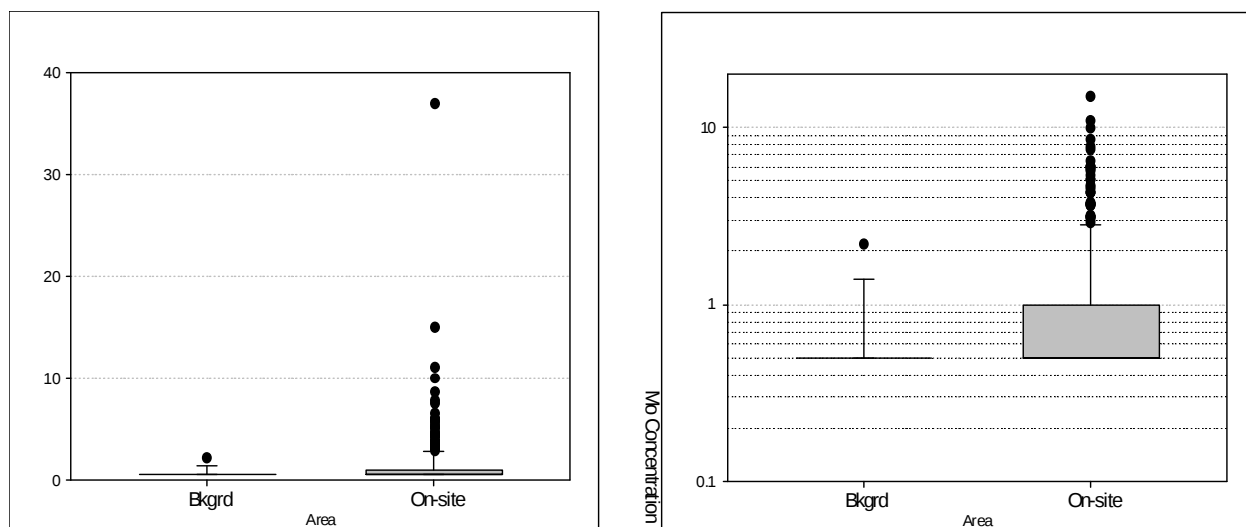


Table 7: Summary of Statistical Comparisons for Molybdenum

Test	p or $R_{largest} \leq K$	Result	Outcome
Gehan Test Mann Whitney Two Sample Test of Proportions Quantile Test	NA $R_{largest} = K$	incalculable (too few detects) Site upper tail greater than background upper tail	

Arithmetic and logarithmic probability plots of the 89 Mo data points are included in Attachment 2 and a plot of the concentration quartiles (samples with detectable concentrations only) is included as Figure 3. These plots are interpreted to show the presence of only background populations, as well as one possible elevated anomalous data point (sample STR-6-1-0.5 [37 mg/kg] was collected from a trench on the southeast terrace and reportedly contained a substantial asphaltic component). Minor inflections in the curves are considered to be the result of differences in sample texture and/or mineralogy. It is noteworthy that unlike metals with anomalous populations, where the majority of anomalous samples are derived from shallow soil (i.e., less than 5 feet), the majority (60 percent) of samples containing elevated Mo (i.e., concentrations greater than 2 mg/kg) were derived from depths of 5 feet or more. The average depth of samples containing >2.0 mg/kg of Mo is more than 10 feet (compared to Pb, where the average depth of samples containing anomalous concentrations is less than 1.0 foot, Avocet, 2004a). Inspection of Figure 3 indicates that samples with upper quartile concentrations of Mo are evenly distributed around the site.

The Quartile test finding that the Site data set is elevated above background is not consistent with the results of the graphical and spatial analysis, which conclude with one possible exception that Site concentrations are not elevated above background. The power of the Quartile test to detect differences in populations is reduced when the number of available measurements is small – which is the case for the background data set. Therefore, the test result is probably more a

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reflection of the small background data set than it is an indication that the data sets are different. The conclusion that the Site Mo concentrations are not significantly elevated above background is based principally on the spatial analysis, which revealed that the majority of elevated Mo concentrations were detected in bedrock samples obtained from substantial depth and scattered locations. Based on this integrated evaluation, Mo is considered to occur on-site at concentrations generally consistent with background conditions. The one exception is the sample with the highest concentration, sample STR-6-1-0.5', which may reflect an anthropomorphic contribution of Mo.

Thallium

Of the 396 samples tested for the presence of thallium (Tl), 27 (or 7 percent) contained detectable concentrations (ranging from 0.74J² to 16 mg/kg – 21 samples contained concentrations in excess of the reporting limit). Tl was not detected in any of the 19 offsite samples (<5 mg/kg). Descriptive statistics for Tl are summarized in Table 8. A comparison of the site and background Tl data sets is illustrated in the box and whisker plots. Inspection of the plots reveals that, due to the large number of the less-than values, the background and site data sets have similar medians (equal to one-half the detection limit) and the site data set exhibits no interquartile range (e.g., greater than 90 percent of the site measurements were less-than values and the range depicted effectively covers the range of non-detected values [half of <5.0 to <9.9 mg/kg]). The absence of a site interquartile range causes all of the detected site measurements to appear as “outliers.” Table 9 presents the output of the distribution tests and Table 10 the results of the comparative statistics. Due to the large number of less-than values, the site and background populations were compared using the Two-Sample Test of Proportions. However, because none of the background samples contained detected concentrations, the test assumptions were violated and a test statistic could not be calculated. The results of the Quantile test indicate that the right tail (largest values) of the Site data set is greater than the upper (right) tail of the background data set. Once again, this is more likely a reflection of the absence of detected values in the background data set than an indication that the data sets are statistically different.

Table 8: Descriptive Statistics for Thallium

Data	Valid N	Mean	Median	Minimum	Maximum	Percentile* 95	Percentile* 99	Variance	Std.Dev.	CV
Tl - All	396	3.29	2.5	0.74	16	5.57	6.654	2.06	1.44	0.436
Tl - On-site	377	3.33	2.5	0.74	16	5.6	6.673	2.13	1.46	0.438
Tl - Bkgd	19	2.50	2.5	2.5	2.5	2.5	2.5	0.00	0.00	0.00

² Value is flagged as estimated (J) – the value is between the method detection limit (MDL: 0.37 mg/kg) and the practical quantification limit (PQL: 5.0 mg/kg). Six of the 27 samples contained estimated concentrations of thallium.

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Table 9: Summary of Distribution Tests for Thallium

Data	N	Lilliefors p	Shapiro-Wilks		Distribution	Result	Outcome
			W	p			
Tl - On-site	377	$p < .01$	NA	NA	not normal	non-parametric	Two-sample test of proportions due to low frequency of detect
LN(Tl - On-site)	377	$p < .01$	NA	NA	not lognormal	non-parametric	
Tl - Bkgd	19	NA	incalculable		not normal	non-parametric	Two-sample test of proportions due to low frequency of detect
LN(Tl - Bkgd)	19	NA	incalculable		not lognormal	non-parametric	

Box and Whisker Plots for Thallium – Logarithmic Scale (Left), Arithmetic Scale (Right)

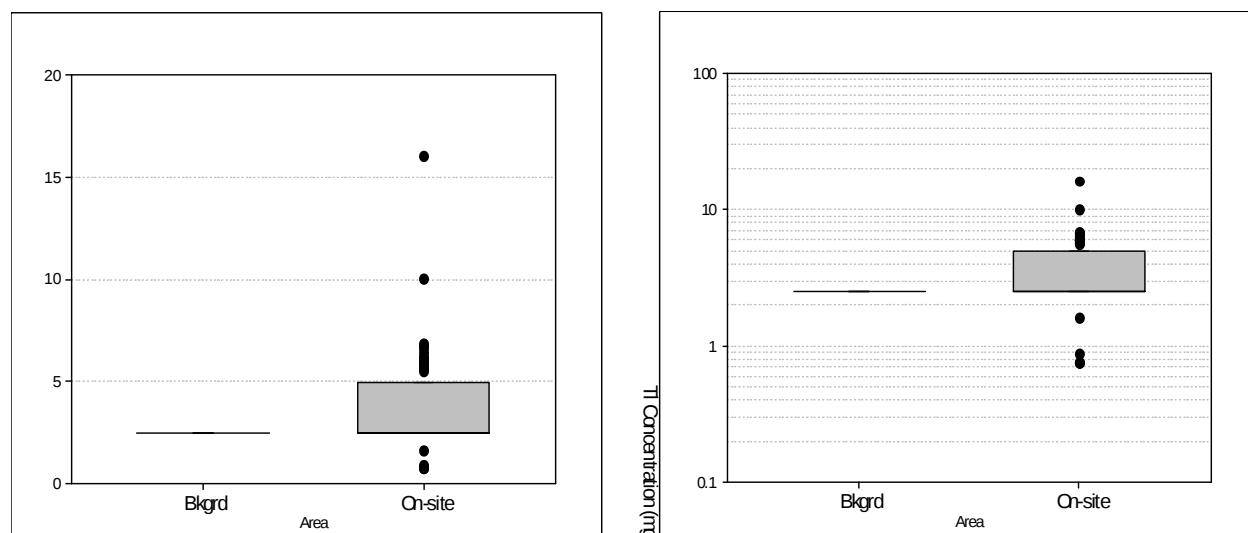


Table 10: Summary of Statistical Comparisons for Thallium

Test	p or $R_{largest} \leq K$	Result	Outcome
Gehan Test			
Mann Whitney			
Two Sample Test of Proportions	NA	can not be calculated	Site > Background
Quantile Test	$R_{largest} = K$	Site upper tail greater than background upper tail	

Before continuing with the graphical and spatial evaluations, it is noteworthy, that all but one of the samples containing Tl concentrations in excess of the PQL were detected in samples collected over the course of two days in June 2004 and analyzed by the laboratory (ZyamX) as part of a single batch of samples. For 20 consecutive samples from 10 locations, Tl was reported at concentrations ranging from 5.5 to 10 mg/kg. Tl was not detected in any of the 86 other samples analyzed before and after these 20 samples. It is very improbable, after so many non-detects, that 20 consecutive samples from 10 scattered locations would contain detectable concentrations (Figure 4 – see the 2nd through 4th quartile plots). Given the weight of evidence, these Tl results are more likely false positives and should not be included in the Site Data set.

Arithmetic and logarithmic probability plots of the Tl data points (including the likely false positives) are included in Attachment 2 and a plot of the concentration quartiles (samples with detectable concentrations only) is included as Figure 4. Based on the shape of the plots and an

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understanding of the spatial distribution of the concentrations, a possible inflection point is identified at a concentration of 6.8 mg/kg. Two sample points occur in the upper (anomalous) population. One of these points (S-42-0.5'), a likely false positive, is located within the northern-most area of the site bordered by Avila Beach Drive and Cave Landing Road. The highest concentration (16 mg/kg) was detected in sample containing a substantial asphaltic component (STR-6-1-0.5'), collected from a trench on the southeast terrace. Inspection of Figure 4 indicates that the concentrations appear randomly distributed (i.e., no apparent hot spots). Based on the absence of a hot spot and the evidence that all but one of the detected Tl concentrations are false positives, it is concluded that all but possibly one of the on-site Tl concentrations are within the background range. The asphaltic sample from trench STR-6-1-0.5' may contain an anomalous concentration of Tl.

CONCLUSION

Based upon the statistical, graphical, and spatial comparative methods described herein, the metals Ba, Mo, and Tl occur on site at primarily background concentrations. Weight of evidence suggests that 20 of the 21 detected (>PQL) Tl results are false positives and should not be considered potentially anomalous concentrations. One sample, STR-6-1-0.5', which contained a substantial asphaltic component and was collected from a trench on the southeast terrace, contained potentially anomalous concentrations of both Mo and Tl.

If you have any questions regarding this report or require additional information, please do not hesitate to call.

Respectfully submitted,

AVOCET ENVIRONMENTAL, INC.

Michael A. Rendina, C.E.G. 1426, C.HG. 292
Project Manager

MAR:sh

Attachments

cc: Charles Anders – Strategic Initiatives, Arroyo Grande, CA (CD-ROM only)
Jennifer Holder – ARCADIS, Carpinteria, CA
Melissa Boggs – California Department of Fish & Game, Morro Bay, CA
Regina Donohoe – California Department of Fish & Game, Monterey, CA
Charles Lambert – McDaniel Lambert, Venice, CA
Dan Niles – California Regional Water Quality Control Board, San Luis Obispo, CA
Teri Copeland – Consulting Toxicologist, Agoura Hills, CA
Andrew Mutziger – Air Pollution Control District, San Luis Obispo, CA



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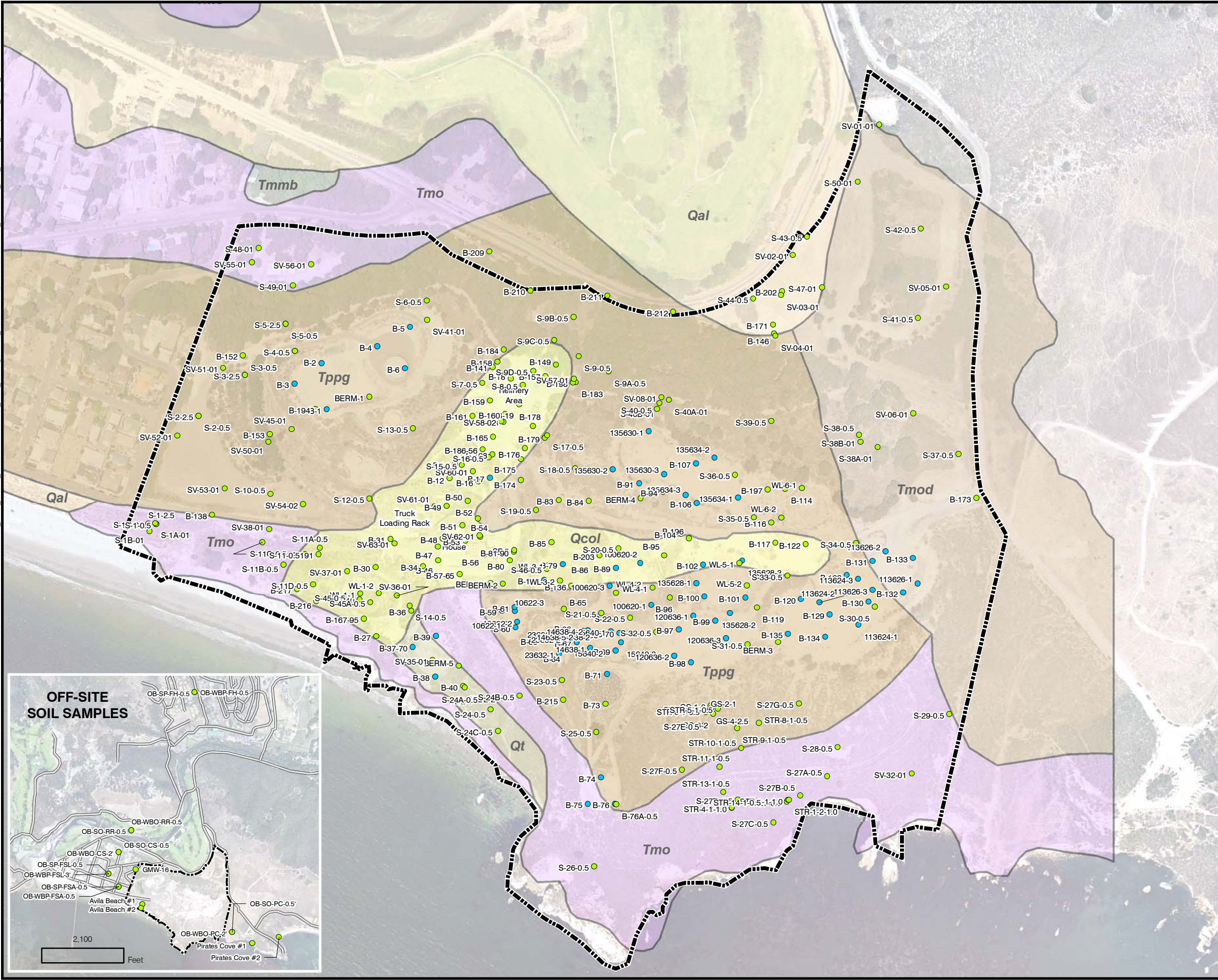
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REFERENCES

Avocet Environmental, Inc. and BBL Sciences, Inc., 2004a, Final Draft, Analysis of Background Metals, Unocal Avila Tank Farm, Avila Beach, California. Report dated October 15, 2004.

Avocet Environmental, Inc., 2004b, Addendum to Final Draft, Analysis of Background Metals, Unocal Avila Tank Farm, Avila Beach, California. Letter dated October 15, 2004.

Figures



Explanation

- Analyzed for All 17 CAM Metals
- Analyzed for Only Lead
- Approximate Site Boundary

Local Geology

- Qal - Alluvium
- Qcol - Colluvium
- Qt - Terrace Deposit
- Tppg - Gragg Member, Pismo Formation
- Tmo - Obispo Formation, Tuffaceous Sandstone
- Tmod - Obispo Formation, Diabase

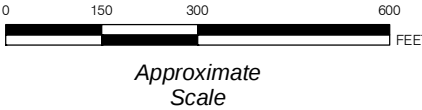


FIGURE 1

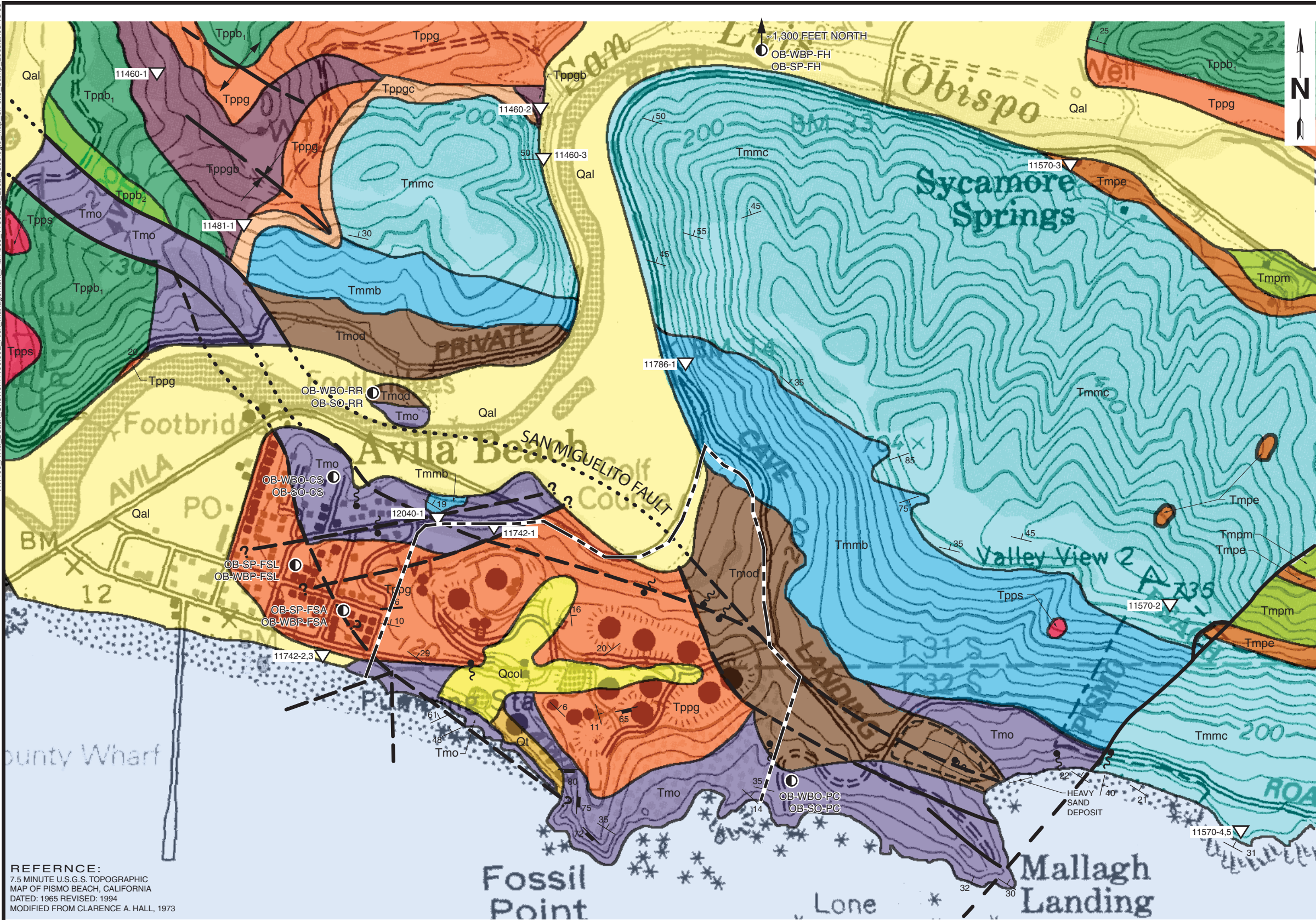
SOIL SAMPLES ANALYZED FOR CAM METALS

FORMER AVILA TANK FARM
AVILA BEACH, CALIFORNIA

PREPARED FOR
CHEVRON INC.
SAN LUIS OBISPO, CALIFORNIA



V:\1190 Avila Beach Chevron\1190.002 Risk Management Plan\009 1190.002 Local Geologic Map off-site Samp Locs.al051808



REFERENCE:
7.5 MINUTE U.S.G.S. TOPOGRAPHIC
MAP OF PISMO BEACH, CALIFORNIA
DATED: 1965 REVISED: 1994
MODIFIED FROM CLARENCE A. HALL, 1973

GEOLOGIC SYMBOLS

- ?--- CONTACT, DASHED WHERE APPROXIMATELY LOCATED,
QUERIED WHERE INFERRED
- ?--- FAULT, DASHED WHERE APPROXIMATELY LOCATED,
QUERIED WHERE INFERRED, DOTTED WHERE CONCEALED
- +--- ANTICLINE, SHOWING TRACE OF AXIAL SURFACE. DASHED
WHERE APPROXIMATELY LOCATED
- +--- SYNCLINE, SHOWING TRACE OF AXIAL SURFACE. DASHED
WHERE APPROXIMATELY LOCATED

- 35/72 STRIKE AND DIP OF BED INCLINED
- 72/ STRIKE AND DIP OF FRACTURE
- (68°) 51° APPARENT DIP - CIRCLED NUMBER REPRESENTS CORRECTION
FOR 2X VERTICAL EXAGGERATION
- 11742-2,3 HYDROCARBON SEEPS WITH SAMPLE NUMBER
- ~ SPRINGS - TUFA COMMON

- OB-WBO-PC
OB-SO-PC OFF-SITE SHALLOW SOIL BORING
- APPROXIMATE SITE BOUNDARY

EXPLANATION

Qal	ALLUVIAL DEPOSITS. Qal, UNCONSOLIDATED, STREAM DEPOSITED PEBBLES, SAND, SILT, AND CLAY. LOCALLY INCLUDES BEACH SAND.
Qcol	COLLUVIAL DEPOSITS. Qcol, UNCONSOLIDATED, SAND, SILT AND CLAY.
Qt	TERRACE DEPOSITS. Qt, UNCONSOLIDATED, SAND, SILT, CLAY, PEBBLES. DEPOSITS ON MARINE AND STREAM TERRACES
Tpps	SQUIRE MEMBER. Tpps, MASSIVE WHITE MEDIUM-TO COARSE-GRAINED SANDSTONE, LOCALLY BITUMINOUS SANDSTONE.
Tppb ₁ Tppb ₂ 1	BELLEVIEW MEMBER. Tppb ₁ , CLAYSTONE, SILTSTONE; Tppb ₂ , BEDDED SANDSTONE AND SILT BECOMING SANDY WITH DIATOMITE BEDS.
?Tppg b c	GRAGG MEMBER. Tppg, MASSIVE WHITE SANDSTONE; Tppgb, LOCALLY BITUMINOUS SANDSTONE; Tppgc, CHERT, PEBBLE CONGLOMERATE.
Tmpm	MIGUELITO MEMBER. Tmpm, BROWN CLAY AND SILT, BECOMING MORE DIATOMACEOUS AND WITH CHERTY OR OPALINE SHALE BEDS, LOCALLY BITUMINOUS.
Tmpe	EDNA MEMBER. Tmpe, BITUMINOUS QUARTZ SANDSTONE, LOCALLY WITH PEBBLES AT BASE.
Tmmc b	MONTEREY FORMATION. Tmmc, SILTSTONE OR CHERT AND BLOCKY WEATHERING DOLOMITIC CLAYSTONE OR SILT, LOCALLY BITUMINOUS; Tmmc, OPALINE OR CHERTY SHALE, SOME DOLOMITE.
Tmo d	OBISPO FORMATION. Tmo, FINE-TO-COARSE-GRAINED WHITE TUFF OR CRYSTALLINE TUFF, LOCALLY RESISTANT, SILICIFIED OR ZEOLITIZED TUFF; Tmod, DIABASE AND SOME TUFFACEOUS SILTSTONE OR TUFF.

0 400 800 FEET
SCALE

FIGURE 1A

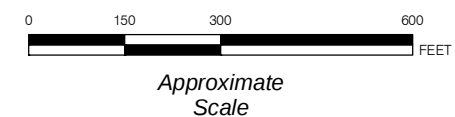
LOCAL GEOLOGIC MAP SHOWING OFF-SITE SAMPLE LOCATIONS

FORMER AVILA TANK FARM
AVILA BEACH, CALIFORNIA

PREPARED FOR

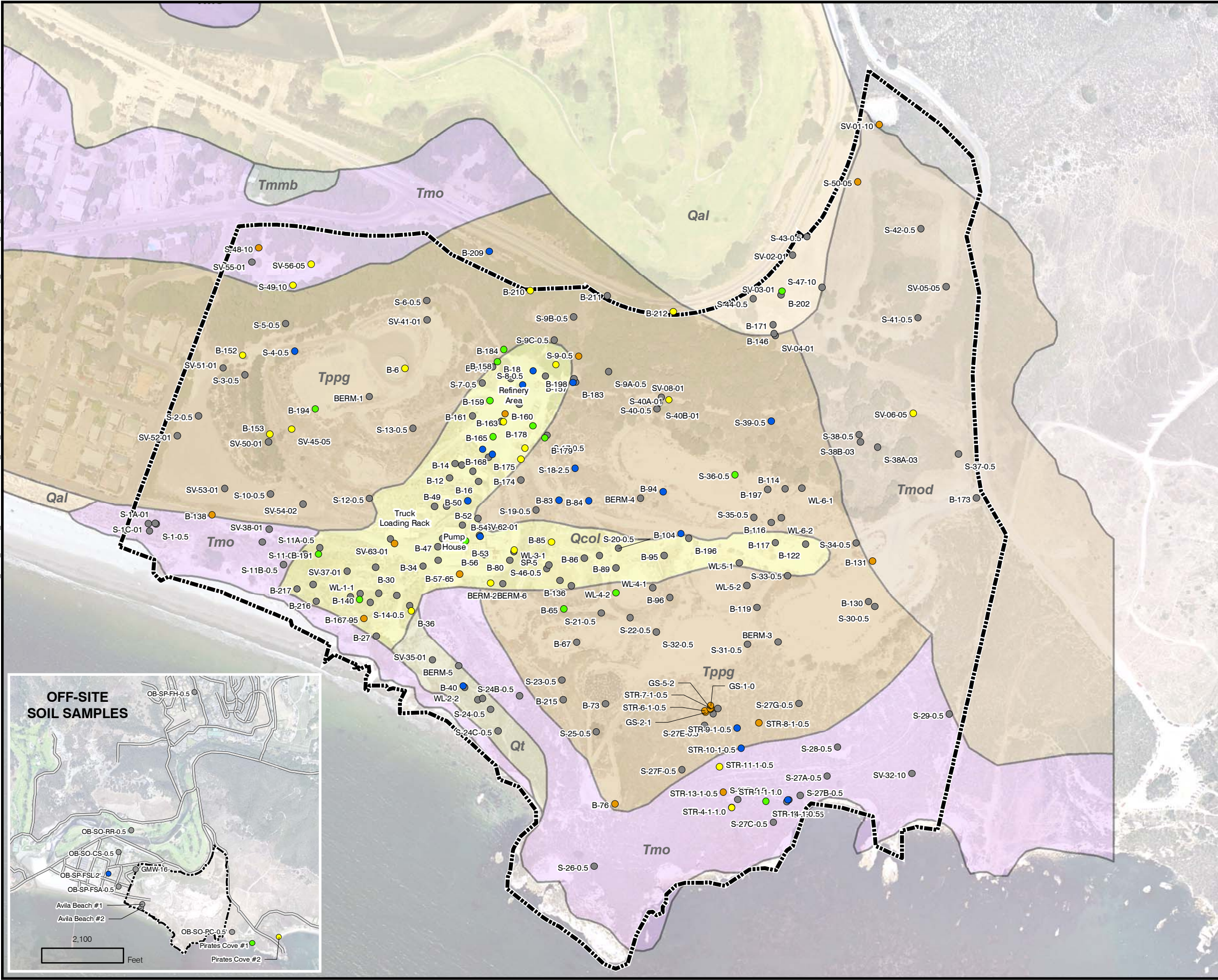
CHEVRON INC.
SAN LUIS OBISPO, CALIFORNIA





AVOCET
ENVIRONMENTAL, INC.

S:\GIS\1190 Avila Beach Chevron\1190.002 Risk Management Plan\ArcMapDocuments\034_1190.002 Soil Samps Analyzed CAM Metals Molybdenum.mxd[05/19/08]



Explanation

Chemical Concentration in mg/kg

Non-Detect (<1.0 to <6.0 mg/kg)

First Quartile (1.0 to 1.4)

Second Quartile (1.4 to 2.2)

Third Quartile (2.2 to 3.7)

Fourth Quartile (3.7 to 37)

Approximate Site Boundary

Local Geology

Qal - Alluvium

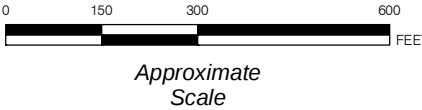
Qcol - Colluvium

Qt - Terrace Deposit

Tppg - Gragg Member, Pismo Formation

Tmo - Obispo Formation, Tuffaceous Sandstone

Tmod - Obispo Formation, Diabase



Approximate Scale

FIGURE 3

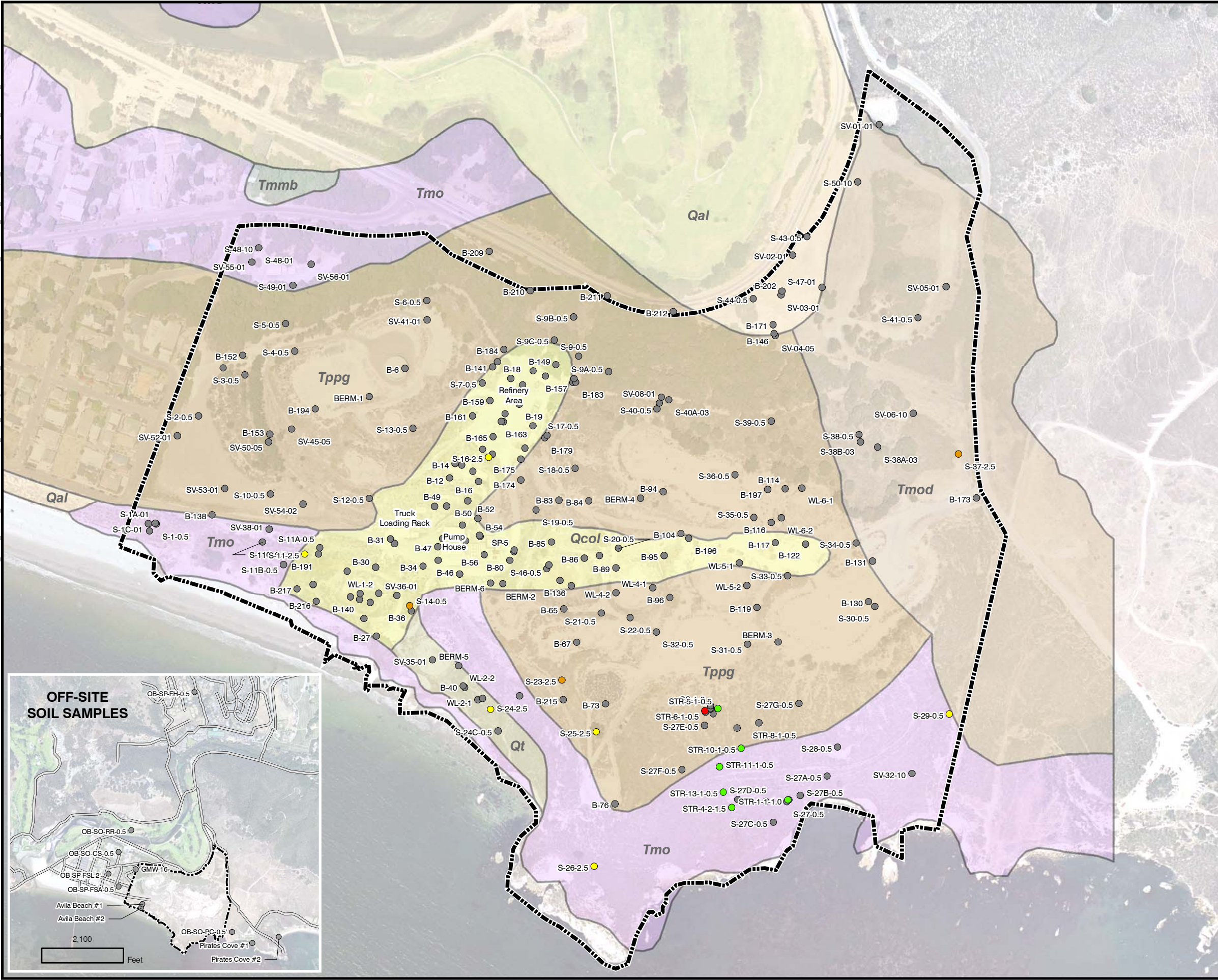
**SOIL SAMPLES ANALYZED
FOR CAM METALS (MOLYBDENUM)
BACKGROUND EVALUATION**

FORMER AVILA TANK FARM
AVILA BEACH, CALIFORNIA

PREPARED FOR
CHEVRON INC.
SAN LUIS OBISPO, CALIFORNIA



S:\GIS\1190 Avila Beach Chevron\1190.002 Risk Management Plan\ArcMapDocuments\035 1190.002 Soil Samps Analyzed CAM Metals Thallium.mxd[05/19/08]



Explanation

Chemical Concentration in mg/kg

- Non-Detect (<2 to <25 mg/kg)
- First Quartile (0.74 to 3.2)
- Second Quartile (5.5 to 5.9)
- Third Quartile (6.0 to 6.1)
- Fourth Quartile (6.2 to 6.8)
- Anomalous (>6.8 mg/kg)

Approximate Site Boundary

Local Geology

- Qal - Alluvium
- Qcol - Colluvium
- Qt - Terrace Deposit
- Tppg - Gragg Member, Pismo Formation
- Tmo - Obispo Formation, Tuffaceous Sandstone
- Tmod - Obispo Formation, Diabase

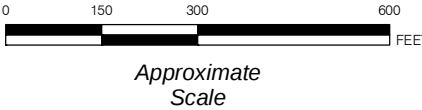


FIGURE 4

SOIL SAMPLES ANALYZED FOR CAM METALS (THALLIUM) BACKGROUND EVALUATION

FORMER AVILA TANK FARM
AVILA BEACH, CALIFORNIA

PREPARED FOR
CHEVRON INC.
SAN LUIS OBISPO, CALIFORNIA



Attachment 1

Summary of Analytical Data for Metals

Table A-1
All Samples Tested for Barium
 Avila Tank Farm, Avila Beach, California
 (Concentrations in mg/kg)

On-site?	Sample Location	Depth (ft)	Date Sampled	Geologic Unit	Ba	Abs. Freq.	Cum. Freq.	Probability
Yes	S-33-2.5	2.5	6/4/2003	Soil-P	1.3	1	1	0.25
Yes	S-48-05	5	7/10/2007	Obispo	5.9	1	2	0.50
Yes	B-217	45	4/2/2003	Obispo	6.2	1	3	0.76
No	GMW-16	45	4/23/1997	Obispo	6.8	1	4	1.01
Yes	S-48-10	10	7/10/2007	Obispo	7.2	1	5	1.26
No	Avila Beach #1	0	7/28/1999	Obispo	8.5	1	6	1.51
Yes	B-117	25	8/29/1997	Pismo	8.6	1	7	1.76
Yes	SV-56-10	10	7/10/2007	Obispo	9.6	1	8	2.02
No	OB-WBP-FH-0.5	0.5	6/6/2003	Pismo	11	1	9	2.27
Yes	B-203	50	2/26/2001	Pismo	15	1	10	2.52
Yes	B-217	5	4/2/2003	Soil-O	18	1	11	2.77
Yes	B-76	15	9/3/1997	Obispo	19	5	16	4.03
Yes	B-76	25	9/3/1997	Obispo	19	5	16	4.03
Yes	S-26-2.5	2.5	6/5/2003	Soil-O	19	5	16	4.03
Yes	SV-06-10	10	7/12/2007	Obispo	19	5	16	4.03
Yes	SV-55-10	10	7/10/2007	Obispo	19	5	16	4.03
Yes	B-131	25	8/26/1997	Obispo	20	5	21	5.29
Yes	B-197	130	7/22/1999	Pismo	20	5	21	5.29
Yes	BERM-1	0.5	9/21/1997	Tar/Soil-P	20	5	21	5.29
Yes	BERM-2	0.5	9/21/1997	Tar/Soil-P	20	5	21	5.29
Yes	BERM-4	0.5	9/21/1997	Tar/Soil-P	20	5	21	5.29
No	Avila Beach #2	0	7/28/1999	Obispo	21	5	26	6.55
Yes	S-26-0.5	0.5	6/5/2003	Soil-O	21	5	26	6.55
Yes	S-45A-0.5	0.5	1/14/2004	Soil-O	21	5	26	6.55
Yes	BERM-3	0.5	9/21/1997	Tar/Soil-P	21	5	26	6.55
Yes	SV-01-05	5	7/11/2007	Obispo	21	5	26	6.55
Yes	B-178	5	7/20/1999	Pismo	22	2	28	7.05
Yes	S-21-2.5	2.5	6/5/2003	Pismo	22	2	28	7.05
Yes	B-210	21	3/1/2001	Pismo	23	2	30	7.56
Yes	B-216	15	4/2/2003	Soil	23	2	30	7.56
Yes	B-210	15	3/1/2001	Pismo	24	3	33	8.31
Yes	B-212	11	3/2/2001	Pismo	24	3	33	8.31
Yes	SV-01-10	10	7/11/2007	Obispo	24	3	33	8.31
Yes	B-18	5	9/26/1997	Soil-P	25	5	38	9.57
Yes	B-184	90	7/22/1999	Pismo	25	5	38	9.57
Yes	B-198	30	2/26/2001	Soil-P	25	5	38	9.57
Yes	B-210	10	3/1/2001	Pismo	25	5	38	9.57
Yes	SV-55-05	5	7/10/2007	Obispo	25	5	38	9.57
Yes	B-67	5	9/4/1997	Pismo	26	1	39	9.82
Yes	B-119	5	9/2/1997	Pismo	28	3	42	10.58
Yes	B-215	5	5/29/2002	Pismo	28	3	42	10.58
Yes	SV-38-05	5	7/12/2007	Obispo	28	3	42	10.58
Yes	B-85	5	9/19/1997	Pismo	29	2	44	11.08
Yes	S-48-01	1	7/10/2007	Soil-O	29	2	44	11.08
Yes	B-83	85	9/23/1997	Pismo	30	4	48	12.09
Yes	B-198	10	2/26/2001	Soil-P	30	4	48	12.09
Yes	S-40B-03	3	7/16/2007	Pismo	30	4	48	12.09
Yes	SV-54-02	2	7/9/2007	Soil-P	30	4	48	12.09
Yes	B-203	11	2/26/2001	Soil-P	31	3	51	12.85
Yes	S-3-0.5	0.5	6/4/2003	Pismo	31	3	51	12.85
Yes	SV-08-05	5	7/12/2007	Pismo	31	3	51	12.85

Table A-1
All Samples Tested for Barium
 Avila Tank Farm, Avila Beach, California
 (Concentrations in mg/kg)

On-site?	Sample Location	Depth (ft)	Date Sampled	Geologic Unit	Ba	Abs. Freq.	Cum. Freq.	Probability
Yes	B-216	25	4/2/2003	Soil	32	2	53	13.35
Yes	SP-5	55	3/4/2001	Obispo	32	2	53	13.35
Yes	B-19	5	9/25/1997	Soil-P	33	6	59	14.86
Yes	B-212	21	3/2/2001	Pismo	33	6	59	14.86
Yes	S-40-2.5	2.5	6/5/2003	Pismo	33	6	59	14.86
No	OB-SP-FH-0.5	0.5	6/6/2003	Soil-P	33	6	59	14.86
Yes	WL-6-1	0	2/24/2005	Soil-P	33	6	59	14.86
Yes	WL-6-2	0	2/24/2005	Soil-P	33	6	59	14.86
Yes	B-171	15	11/24/1997	Soil-P	34	6	65	16.37
Yes	S-4-0.5	0.5	6/4/2003	Soil-P	34	6	65	16.37
Yes	S-13-2.5	2.5	6/5/2003	Pismo	34	6	65	16.37
Yes	S-23-2.5	2.5	6/5/2003	Pismo	34	6	65	16.37
Yes	S-24A-0.5	0.5	1/14/2004	Soil-O	34	6	65	16.37
Yes	S-27F-0.5	0.5	1/13/2004	Soil-O	34	6	65	16.37
Yes	B-114	5	8/27/1997	Pismo	35	7	72	18.14
Yes	B-152	50	11/23/1997	Pismo	35	7	72	18.14
Yes	B-152	125	11/25/1997	Pismo	35	7	72	18.14
Yes	B-153	75	11/26/1997	Pismo	35	7	72	18.14
Yes	SV-05-05	5	7/11/2007	Obispo	35	7	72	18.14
Yes	SV-32-10	10	7/13/2007	Obispo	35	7	72	18.14
Yes	SV-60-05	5	7/10/2007	Soil-P	35	7	72	18.14
Yes	B-48	5	9/25/1997	Soil-P	36	7	79	19.90
Yes	B-209	6	3/2/2001	Pismo	36	7	79	19.90
Yes	B-210	31	3/1/2001	Pismo	36	7	79	19.90
Yes	B-211	11	3/2/2001	Pismo	36	7	79	19.90
Yes	S-25-0.5	0.5	6/5/2003	Pismo	36	7	79	19.90
Yes	SV-57-05	5	7/12/2007	Pismo	36	7	79	19.90
Yes	WL-5-1	0	2/24/2005	Soil-P	36	7	79	19.90
Yes	B-194	50	7/19/1999	Pismo	37	2	81	20.40
Yes	S-27-2.5	2.5	6/5/2003	Soil-O	37	2	81	20.40
Yes	B-73	1	9/3/1997	Pismo	38	7	88	22.17
Yes	B-209	21	3/2/2001	Pismo	38	7	88	22.17
Yes	S-10-2.5	2.5	6/4/2003	Pismo	38	7	88	22.17
Yes	S-31-0.5	0.5	6/4/2003	Soil-P	38	7	88	22.17
Yes	S-11A-2.5	2.5	1/14/2004	Soil-O	38	7	88	22.17
Yes	S-24A-2.5	2.5	1/14/2004	Soil-O	38	7	88	22.17
Yes	S-27D-2.5	2.5	1/14/2004	Soil-O	38	7	88	22.17
Yes	B-95	5	9/18/1997	Soil-P	39	5	93	23.43
Yes	B-175	5	7/19/1999	Pismo	39	5	93	23.43
Yes	S-32-0.5	0.5	6/4/2003	Soil-P	39	5	93	23.43
Yes	S-27B-0.5	0.5	1/13/2004	Soil-O	39	5	93	23.43
Yes	S-50-10	10	7/11/2007	Obispo	39	5	93	23.43
Yes	B-153	110	11/26/1997	Pismo	40	1	94	23.68
Yes	B-49	5	9/25/1997	Soil-P	41	9	103	25.94
Yes	B-84	5	9/10/1997	Pismo	41	9	103	25.94
Yes	B-209	11	3/2/2001	Pismo	41	9	103	25.94
Yes	S-5-2.5	2.5	6/5/2003	Soil-P	41	9	103	25.94
Yes	SV-05-01	1	7/11/2007	Soil-O	41	9	103	25.94
Yes	SV-08-01	1	7/12/2007	Soil-P	41	9	103	25.94
Yes	SV-45-01	1	7/12/2007	Soil-P	41	9	103	25.94
Yes	SV-54-05	5	7/9/2007	Pismo	41	9	103	25.94

Table A-1
All Samples Tested for Barium
 Avila Tank Farm, Avila Beach, California
 (Concentrations in mg/kg)

On-site?	Sample Location	Depth (ft)	Date Sampled	Geologic Unit	Ba	Abs. Freq.	Cum. Freq.	Probability
Yes	SV-61-05	5	7/10/2007	Soil-P	41	9	103	25.94
Yes	B-51	5	9/10/1997	Pismo	42	9	112	28.21
Yes	B-186-56	5	7/26/1999	Soil-P	42	9	112	28.21
Yes	S-39-2.5	2.5	6/5/2003	Soil-P	42	9	112	28.21
Yes	S-46-2.5	2.5	6/4/2003	Soil-P	42	9	112	28.21
Yes	S-27B-2.5	2.5	1/13/2004	Soil-O	42	9	112	28.21
Yes	BERM-5	0.5	9/21/1997	Tar/Soil-O	42	9	112	28.21
Yes	BERM-6	0.5	6/5/2003	Tar/Soil-P	42	9	112	28.21
Yes	SV-35-05	5	7/12/2007	Soil-O	42	9	112	28.21
Yes	WL-1-2	0	2/24/2005	Soil-O	42	9	112	28.21
Yes	B-34	5	9/25/1997	Soil-P	43	11	123	30.98
Yes	B-46	10	9/6/1997	Soil-P	43	11	123	30.98
Yes	B-136	10	9/18/1997	Pismo	43	11	123	30.98
Yes	B-138	30	9/5/1997	Obispo	43	11	123	30.98
Yes	B-140	5	9/23/1997	Soil-O	43	11	123	30.98
Yes	B-186-56	10	7/26/1999	Soil-P	43	11	123	30.98
Yes	B-191	10	7/27/1999	Obispo	43	11	123	30.98
Yes	S-9-2.5	2.5	6/5/2003	Soil-P	43	11	123	30.98
Yes	S-13-0.5	0.5	6/5/2003	Pismo	43	11	123	30.98
Yes	SV-55-01	1	7/10/2007	Soil-O	43	11	123	30.98
Yes	SV-63-01	1	7/9/2007	Soil-P	43	11	123	30.98
Yes	B-53	5	9/10/1997	Soil-P	44	8	131	33.00
Yes	B-174	5	7/21/1999	Pismo	44	8	131	33.00
Yes	SP-5	35	3/4/2001	Pismo	44	8	131	33.00
Yes	S-3-2.5	2.5	6/4/2003	Pismo	44	8	131	33.00
Yes	S-22-0.5	0.5	6/5/2003	Soil-P	44	8	131	33.00
Yes	S-45A-2.5	2.5	1/14/2004	Soil-O	44	8	131	33.00
Yes	SV-41-05	5	7/13/2007	Pismo	44	8	131	33.00
Yes	WL-3-1	0	2/24/2005	Soil-P	44	8	131	33.00
Yes	B-6	5	9/21/1997	Pismo	45	6	137	34.51
Yes	B-94	5	8/28/1997	Soil-P	45	6	137	34.51
Yes	S-15-2.5	2.5	6/4/2003	Soil-P	45	6	137	34.51
Yes	S-16-2.5	2.5	6/4/2003	Soil-P	45	6	137	34.51
No	OB-WBO-PC-2'	2	6/6/2003	Obispo	45	6	137	34.51
Yes	S-38A-01	1	7/17/2007	Soil-O	45	6	137	34.51
Yes	B-27	5	9/26/1997	Soil-O	46	7	144	36.27
Yes	B-30	10	9/7/1997	Soil-O	46	7	144	36.27
Yes	B-161	5	7/20/1999	Soil-P	46	7	144	36.27
Yes	B-163	50	11/20/1997	Pismo	46	7	144	36.27
Yes	S-18-0.5	0.5	6/5/2003	Soil-P	46	7	144	36.27
Yes	S-18-2.5	2.5	6/5/2003	Pismo	46	7	144	36.27
Yes	S-23-0.5	0.5	6/5/2003	Soil-P	46	7	144	36.27
Yes	B-183	5	7/23/1999	Soil-P	47	5	149	37.53
Yes	S-7-0.5	0.5	6/4/2003	Soil-P	47	5	149	37.53
Yes	S-40-0.5	0.5	6/5/2003	Pismo	47	5	149	37.53
Yes	S-45-2.5	2.5	6/4/2003	Soil-O	47	5	149	37.53
Yes	S-9A-2.5	2.5	1/14/2004	Soil-P	47	5	149	37.53
Yes	B-31	20	9/6/1997	Pismo	48	13	162	40.81
Yes	B-52	5	9/25/1997	Pismo	48	13	162	40.81
Yes	B-86	5	9/19/1997	Soil-P	48	13	162	40.81
Yes	B-122	5	8/27/1997	Af	48	13	162	40.81

Table A-1
All Samples Tested for Barium
 Avila Tank Farm, Avila Beach, California
 (Concentrations in mg/kg)

On-site?	Sample Location	Depth (ft)	Date Sampled	Geologic Unit	Ba	Abs. Freq.	Cum. Freq.	Probability
Yes	B-141	5	9/26/1997	Pismo	48	13	162	40.81
Yes	S-4-2.5	2.5	6/4/2003	Pismo	48	13	162	40.81
Yes	S-24-0.5	0.5	6/5/2003	Soil-O	48	13	162	40.81
Yes	S-24-2.5	2.5	6/5/2003	Soil-O	48	13	162	40.81
Yes	S-30-2.5	2.5	6/4/2003	Pismo	48	13	162	40.81
Yes	S-11D-2.5	2.5	1/14/2004	Soil-O	48	13	162	40.81
Yes	SV-50-01	1	7/12/2007	Soil-P	48	13	162	40.81
Yes	SV-51-05	5	7/9/2007	Pismo	48	13	162	40.81
Yes	WL-5-2	0	2/24/2005	Soil-P	48	13	162	40.81
Yes	S-20-0.5	0.5	6/5/2003	Soil-P	49	2	164	41.31
Yes	S-27G-2.5	2.5	1/13/2004	Soil-P	49	2	164	41.31
Yes	B-12	5	9/24/1997	Soil-P	50	7	171	43.07
Yes	B-40	5	9/9/1997	Soil-P	50	7	171	43.07
Yes	S-24B-0.5	0.5	1/14/2004	Obispo	50	7	171	43.07
Yes	S-27C-0.5	0.5	1/14/2004	Soil-O	50	7	171	43.07
Yes	SV-58-02	2	7/10/2007	Soil-P	50	7	171	43.07
Yes	WL-2-2	0	2/24/2005	Soil-O	50	7	171	43.07
Yes	WL-3-2	0	2/24/2005	Soil-P	50	7	171	43.07
Yes	B-96	5	9/11/1997	Soil-P	51	7	178	44.84
Yes	B-184	5	7/22/1999	Soil-P	51	7	178	44.84
Yes	B-212	6	3/2/2001	Pismo	51	7	178	44.84
Yes	S-17-0.5	0.5	6/5/2003	Soil-P	51	7	178	44.84
Yes	S-33-0.5	0.5	6/4/2003	Soil-P	51	7	178	44.84
Yes	S-40A-03	3	7/16/2007	Pismo	51	7	178	44.84
Yes	S-40B-01	1	7/16/2007	Soil-P	51	7	178	44.84
Yes	B-89	60	9/4/1997	Pismo	52	9	187	47.10
Yes	B-176	5	7/20/1999	Pismo	52	9	187	47.10
Yes	S-24B-2.5	2.5	1/14/2004	Obispo	52	9	187	47.10
Yes	S-27E-0.5	0.5	1/13/2004	Soil-P	52	9	187	47.10
Yes	S-27E-2.5	2.5	1/13/2004	Soil-P	52	9	187	47.10
Yes	STR-14-1-0.5	0.5	4/26/2005	Tar/Soil-O	52	9	187	47.10
Yes	SV-41-01	1	7/13/2007	Soil-P	52	9	187	47.10
Yes	SV-52-05	5	7/9/2007	Pismo	52	9	187	47.10
Yes	SV-62-05	5	7/10/2007	Soil-P	52	9	187	47.10
Yes	SP-5	15	3/4/2001	Soil-P	53	6	193	48.61
Yes	S-11C-2.0	2	1/14/2004	Soil-O	53	6	193	48.61
Yes	GS-1-2.5	2.5	1/15/2004	Soil-P	53	6	193	48.61
Yes	GS-3-2	2	1/15/2004	Tar/Soil-P	53	6	193	48.61
Yes	SV-38-01	1	7/12/2007	Soil-P	53	6	193	48.61
Yes	SV-57-01	1	7/12/2007	Soil-P	53	6	193	48.61
Yes	B-159	5	7/20/1999	Soil-P	54	8	201	50.63
Yes	B-196	5	7/21/1999	Soil-P	54	8	201	50.63
Yes	S-16-0.5	0.5	6/4/2003	Soil-P	54	8	201	50.63
Yes	S-19-2.5	2.5	6/5/2003	Soil-P	54	8	201	50.63
Yes	S-9B-0.5	0.5	1/14/2004	Soil-P	54	8	201	50.63
Yes	S-9B-2.5	2.5	1/14/2004	Soil-P	54	8	201	50.63
Yes	S-11C-2.5	2.5	1/14/2004	Soil-O	54	8	201	50.63
Yes	WL-2-1	0	2/24/2005	Soil-O	54	8	201	50.63
Yes	B-117	5	8/29/1997	Soil-P	55	6	207	52.14
Yes	B-160	5	7/20/1999	Soil-P	55	6	207	52.14
Yes	S-8-2.5	2.5	6/4/2003	Soil-P	55	6	207	52.14

Table A-1
All Samples Tested for Barium
 Avila Tank Farm, Avila Beach, California
 (Concentrations in mg/kg)

On-site?	Sample Location	Depth (ft)	Date Sampled	Geologic Unit	Ba	Abs. Freq.	Cum. Freq.	Probability
Yes	S-11B-2.5	2.5	1/14/2004	Soil-O	55	6	207	52.14
Yes	S-27G-0.5	0.5	1/13/2004	Soil-P	55	6	207	52.14
Yes	SV-52-01	1	7/9/2007	Soil-P	55	6	207	52.14
Yes	B-157	5	7/20/1999	Soil-P	56	7	214	53.90
Yes	B-210	6	3/1/2001	Pismo	56	7	214	53.90
Yes	S-17-2.5	2.5	6/5/2003	Soil-P	56	7	214	53.90
Yes	S-32-2.5	2.5	6/4/2003	Pismo	56	7	214	53.90
Yes	S-11D-0.5	0.5	1/14/2004	Soil-O	56	7	214	53.90
Yes	S-27C-2.5	2.5	1/14/2004	Soil-O	56	7	214	53.90
Yes	SV-36-01	1	7/10/2007	Soil-O	56	7	214	53.90
Yes	B-54	5	9/25/1997	Soil-P	57	5	219	55.16
Yes	B-211	6	3/2/2001	Pismo	57	5	219	55.16
Yes	S-39-0.5	0.5	6/5/2003	Soil-P	57	5	219	55.16
Yes	S-27F-2.5	2.5	1/13/2004	Soil-O	57	5	219	55.16
Yes	SV-01-01	1	7/11/2007	Soil-O	57	5	219	55.16
Yes	B-56	5	9/25/1997	Soil-P	58	4	223	56.17
Yes	B-202	15	5/29/2002	Soil-O	58	4	223	56.17
Yes	S-35-2.5	2.5	6/4/2003	Soil-P	58	4	223	56.17
Yes	S-27A-2.5	2.5	1/13/2004	Soil-O	58	4	223	56.17
Yes	B-81-90	5	9/26/1997	Soil-P	59	7	230	57.93
Yes	B-104	5	9/17/1997	Soil-P	59	7	230	57.93
Yes	B-116	5	8/27/1997	Soil-P	59	7	230	57.93
Yes	B-165	5	7/19/1999	Soil-P	59	7	230	57.93
Yes	S-36-2.5	2.5	6/4/2003	Pismo	59	7	230	57.93
Yes	SV-45-05	5	7/12/2007	Pismo	59	7	230	57.93
Yes	SV-58-05	5	7/10/2007	Soil-P	59	7	230	57.93
Yes	B-57-65	5	9/24/1997	Soil-P	60	4	234	58.94
Yes	S-36-0.5	0.5	6/4/2003	Pismo	60	4	234	58.94
Yes	S-11B-0.5	0.5	1/14/2004	Soil-O	60	4	234	58.94
Yes	GS-5-2.5	2.5	1/15/2004	Soil-P	60	4	234	58.94
Yes	S-6-0.5	0.5	6/5/2003	Soil-P	61	5	239	60.20
Yes	S-11-0.5	0.5	6/5/2003	Soil-O	61	5	239	60.20
Yes	S-12-0.5	0.5	6/5/2003	Pismo	61	5	239	60.20
Yes	S-28-0.5	0.5	6/5/2003	Soil-O	61	5	239	60.20
Yes	S-9A-0.5	0.5	1/14/2004	Soil-P	61	5	239	60.20
Yes	S-46-0.5	0.5	6/4/2003	Soil-P	62	2	241	60.71
Yes	GS-3-5	5	1/15/2004	Soil-P	62	2	241	60.71
Yes	S-45-0.5	0.5	6/4/2003	Soil-O	63	4	245	61.71
Yes	GS-4-6	6	1/15/2004	Soil-P	63	4	245	61.71
Yes	S-49-10	10	7/10/2007	Obispo	63	4	245	61.71
Yes	SV-63-05	5	7/9/2007	Soil-P	63	4	245	61.71
Yes	S-35-0.5	0.5	6/4/2003	Soil-P	64	5	250	62.97
Yes	S-38-2.5	2.5	6/5/2003	Soil-O	64	5	250	62.97
Yes	S-11C-0.5	0.5	1/14/2004	Soil-O	64	5	250	62.97
Yes	SV-04-05	5	7/11/2007	Qcol	64	5	250	62.97
Yes	SV-51-01	1	7/9/2007	Soil-P	64	5	250	62.97
Yes	S-20-2.5	2.5	6/5/2003	Soil-P	65	8	258	64.99
Yes	S-22-2.5	2.5	6/5/2003	Soil-P	65	8	258	64.99
Yes	S-34-0.5	0.5	6/4/2003	Soil-O	65	8	258	64.99
Yes	S-42-2.5	2.5	6/4/2003	Soil-O	65	8	258	64.99
Yes	S-9D-2.5	2.5	1/14/2004	Soil-P	65	8	258	64.99

Table A-1
All Samples Tested for Barium
 Avila Tank Farm, Avila Beach, California
 (Concentrations in mg/kg)

On-site?	Sample Location	Depth (ft)	Date Sampled	Geologic Unit	Ba	Abs. Freq.	Cum. Freq.	Probability
Yes	S-27A-0.5	0.5	1/13/2004	Soil-O	65	8	258	64.99
Yes	GS-1-4	4	1/15/2004	Pismo	65	8	258	64.99
Yes	S-47-01	1	7/11/2007	Soil-O	65	8	258	64.99
Yes	B-168	5	7/19/1999	Soil-P	66	8	266	67.00
Yes	S-6-2.5	2.5	6/5/2003	Pismo	66	8	266	67.00
Yes	S-11-2.5	2.5	6/5/2003	Soil-O	66	8	266	67.00
Yes	S-29-2.5	2.5	6/5/2003	Soil-O	66	8	266	67.00
Yes	S-31-2.5	2.5	6/4/2003	Soil-P	66	8	266	67.00
Yes	S-34-2.5	2.5	6/4/2003	Soil-O	66	8	266	67.00
No	OB-WBP-FSL-3'	3	6/6/2003	Pismo	66	8	266	67.00
Yes	S-47-05	5	7/11/2007	Soil-O	66	8	266	67.00
Yes	B-138	20	9/5/1997	Pismo	67	4	270	68.01
Yes	S-1-2.5	2.5	6/4/2003	Af	67	4	270	68.01
Yes	S-11A-0.5	0.5	1/14/2004	Soil-O	67	4	270	68.01
Yes	S-50-05	5	7/11/2007	Soil-O	67	4	270	68.01
Yes	B-179	5	7/21/1999	Soil-P	68	4	274	69.02
Yes	S-7-2.5	2.5	6/4/2003	Soil-P	68	4	274	69.02
Yes	S-12-2.5	2.5	6/5/2003	Pismo	68	4	274	69.02
Yes	SV-61-01	1	7/10/2007	Soil-P	68	4	274	69.02
Yes	B-197	180	7/22/1999	Obispo	69	4	278	70.03
Yes	S-5-0.5	0.5	6/5/2003	Soil-P	69	4	278	70.03
Yes	S-27D-0.5	0.5	1/14/2004	Soil-O	69	4	278	70.03
Yes	S-40A-01	1	7/16/2007	Soil-P	69	4	278	70.03
Yes	S-2-2.5	2.5	6/4/2003	Soil-P	70	1	279	70.28
Yes	B-47	5	9/25/1997	Soil-P	71	6	285	71.79
Yes	B-80	5	9/25/1997	Soil-P	71	6	285	71.79
Yes	B-211	20	3/2/2001	Pismo	71	6	285	71.79
Yes	S-14-2.5	2.5	6/5/2003	Soil-P	71	6	285	71.79
Yes	S-15-0.5	0.5	6/4/2003	Soil-P	71	6	285	71.79
Yes	S-49-05	5	7/10/2007	Obispo	71	6	285	71.79
Yes	B-50	5	9/25/1997	Pismo	72	4	289	72.80
Yes	S-9-0.5	0.5	6/5/2003	Soil-P	72	4	289	72.80
Yes	S-10-0.5	0.5	6/4/2003	Soil-P	72	4	289	72.80
Yes	GS-3-6	6	1/15/2004	Soil-P	72	4	289	72.80
Yes	S-9C-2.5	2.5	1/14/2004	Soil-P	73	2	291	73.30
Yes	WL-4-1	0	2/24/2005	Soil-P	73	2	291	73.30
Yes	B-89	10	9/4/1997	Soil-P	74	2	293	73.80
Yes	SV-37-01	1	7/12/2007	Soil-O	74	2	293	73.80
Yes	B-16	1	9/24/1997	Soil-P	75	5	298	75.06
Yes	S-50-01	1	7/11/2007	Soil-O	75	5	298	75.06
Yes	SV-05-10	10	7/11/2007	Obispo	75	5	298	75.06
Yes	SV-50-05	5	7/12/2007	Pismo	75	5	298	75.06
Yes	WL-4-2	0	2/24/2005	Soil-P	75	5	298	75.06
Yes	S-9C-0.5	0.5	1/14/2004	Soil-P	76	2	300	75.57
Yes	SV-37-05	5	7/12/2007	Soil-O	76	2	300	75.57
Yes	B-163	5	11/20/1997	Soil-P	77	3	303	76.32
Yes	S-14-0.5	0.5	6/5/2003	Soil-O	77	3	303	76.32
Yes	S-30-0.5	0.5	6/4/2003	Pismo	77	3	303	76.32
Yes	B-65	10	9/22/1997	Soil-P	78	4	307	77.33
Yes	S-19-0.5	0.5	6/5/2003	Soil-P	78	4	307	77.33
Yes	S-24C-2.5	2.5	1/14/2004	Soil-O	78	4	307	77.33

Table A-1
All Samples Tested for Barium
 Avila Tank Farm, Avila Beach, California
 (Concentrations in mg/kg)

On-site?	Sample Location	Depth (ft)	Date Sampled	Geologic Unit	Ba	Abs. Freq.	Cum. Freq.	Probability
Yes	S-1C-01	1	7/16/2007	Af	78	4	307	77.33
Yes	S-24C-0.5	0.5	1/14/2004	Soil-O	79	2	309	77.83
Yes	S-1A-01	1	7/16/2007	Af	79	2	309	77.83
Yes	S-1A-03	3	7/16/2007	Af	80	2	311	78.34
Yes	SV-53-01	1	7/9/2007	Soil-P	80	2	311	78.34
Yes	S-2-0.5	0.5	6/4/2003	Soil-P	81	4	315	79.35
Yes	S-8-0.5	0.5	6/4/2003	Soil-P	81	4	315	79.35
No	OB-SO-PC-0.5'	0.5	6/6/2003	Soil-O	81	4	315	79.35
Yes	S-47-10	10	7/11/2007	Obispo	81	4	315	79.35
Yes	S-1-0.5	0.5	6/4/2003	Af	82	1	316	79.60
Yes	B-136	1	9/18/1997	Soil-P	83	3	319	80.35
Yes	B-146	5	11/24/1997	Soil-P	83	3	319	80.35
Yes	B-149	5	11/25/1997	Soil-P	83	3	319	80.35
Yes	STR-4-2-1.5	1.5	4/26/2005	Soil-O	85	2	321	80.86
Yes	SV-04-01	1	7/11/2007	Qcol	85	2	321	80.86
Yes	STR-1-1-1.0	1	4/26/2005	Tar/Soil-O	87	2	323	81.36
Yes	SV-60-01	1	7/10/2007	Soil-P	87	2	323	81.36
Yes	S-41-2.5	2.5	6/4/2003	Soil-O	90	2	325	81.86
Yes	SV-32-05	5	7/13/2007	Soil-O	90	2	325	81.86
No	Pirates Cove #2	0	7/28/1999	Obispo	91	3	328	82.62
Yes	S-42-0.5	0.5	6/4/2003	Soil-O	91	3	328	82.62
Yes	SV-02-05	5	7/11/2007	Qal	91	3	328	82.62
Yes	SV-32-01	1	7/13/2007	Soil-O	92	1	329	82.87
Yes	B-14	1	9/24/1997	Soil-P	93	2	331	83.38
Yes	SV-62-01	1	7/10/2007	Soil-P	93	2	331	83.38
No	OB-WBP-FSA-0.5	0.5	6/6/2003	Pismo	94	1	332	83.63
Yes	S-49-01	1	7/10/2007	Soil-O	95	1	333	83.88
Yes	S-21-0.5	0.5	6/5/2003	Soil-P	96	2	335	84.38
Yes	WL-1-1	0	2/24/2005	Soil-O	96	2	335	84.38
Yes	STR-10-1-0.5	0.5	4/26/2005	Tar/Soil-P	97	2	337	84.89
Yes	SV-03-10	10	7/11/2007	Qal	97	2	337	84.89
Yes	B-36	5	9/23/1997	Obispo	98	1	338	85.14
Yes	S-9D-0.5	0.5	1/14/2004	Soil-P	99	2	340	85.64
Yes	SV-53-05	5	7/9/2007	Pismo	99	2	340	85.64
No	OB-SP-FSA-0.5	0.5	6/6/2003	Soil-P	100	4	344	86.65
No	OB-SP-FSL-0.5	0.5	6/6/2003	Soil-P	100	4	344	86.65
Yes	S-1C-04	4	7/16/2007	Af	100	4	344	86.65
Yes	STR-11-1-0.5	0.5	4/26/2005	Tar/Soil-O	100	4	344	86.65
No	OB-SP-FSL-2'	2	6/6/2003	Soil-P	110	5	349	87.91
Yes	GS-4-2.5	2.5	1/15/2004	Tar/Soil	110	5	349	87.91
Yes	STR-1-2-1.0	1	4/26/2005	Tar/Soil-O	110	5	349	87.91
Yes	SV-35-01	1	7/12/2007	Soil-O	110	5	349	87.91
Yes	SV-36-05	5	7/10/2007	Soil-O	110	5	349	87.91
Yes	S-25-2.5	2.5	6/5/2003	Soil-P	120	5	354	89.17
Yes	S-43-2.5	2.5	6/4/2003	Soil-O	120	5	354	89.17
Yes	S-44-2.5	2.5	6/4/2003	Soil-P	120	5	354	89.17
Yes	S-38B-01	1	7/17/2007	Soil-O	120	5	354	89.17
Yes	SV-03-05	5	7/11/2007	Qal	120	5	354	89.17
No	GMW-16	25	4/23/1997	Obispo	130	6	360	90.68
Yes	S-27-0.5	0.5	6/5/2003	Soil-O	130	6	360	90.68
Yes	S-37-2.5	2.5	6/4/2003	Soil-O	130	6	360	90.68

Table A-1
All Samples Tested for Barium
 Avila Tank Farm, Avila Beach, California
 (Concentrations in mg/kg)

On-site?	Sample Location	Depth (ft)	Date Sampled	Geologic Unit	Ba	Abs. Freq.	Cum. Freq.	Probability
Yes	S-44-0.5	0.5	6/4/2003	Soil-P	130	6	360	90.68
Yes	STR-5-1-0.5	0.5	4/25/2005	Tar/Soil-O	130	6	360	90.68
Yes	SV-06-01	1	7/12/2007	Soil-O	130	6	360	90.68
Yes	S-38-0.5	0.5	6/5/2003	Soil-O	140	5	365	91.94
Yes	S-41-0.5	0.5	6/4/2003	Soil-O	140	5	365	91.94
Yes	GS-5-2	2	1/15/2004	Tar/Soil	140	5	365	91.94
Yes	SV-02-10	10	7/11/2007	Qal	140	5	365	91.94
Yes	SV-04-10	10	7/11/2007	Qcol	140	5	365	91.94
Yes	GS-2-1	1	1/15/2004	Tar/Soil-P	150	2	367	92.44
Yes	SV-02-01	1	7/11/2007	Qal	150	2	367	92.44
Yes	S-28-2.5	2.5	6/5/2003	Soil-O	160	5	372	93.70
Yes	S-43-0.5	0.5	6/4/2003	Soil-O	160	5	372	93.70
No	OB-SO-CS-0.5	0.5	6/6/2003	Soil-O	160	5	372	93.70
Yes	STR-9-1-0.5	0.5	4/26/2005	Tar/Soil-P	160	5	372	93.70
Yes	SV-06-05	5	7/12/2007	Obispo	160	5	372	93.70
Yes	B-173	55	11/18/1997	Obispo	170	3	375	94.46
Yes	STR-7-1-0.5	0.5	4/25/2005	Tar/Soil-O	170	3	375	94.46
Yes	SV-03-01	1	7/11/2007	Qal	170	3	375	94.46
Yes	B-130	5	8/25/1997	Pismo	180	2	377	94.96
Yes	S-37-0.5	0.5	6/4/2003	Soil-O	180	2	377	94.96
No	OB-WBO-RR-0.5	0.5	6/6/2003	Obispo	190	1	378	95.21
Yes	S-1B-01	1	7/16/2007	Af	210	2	380	95.72
Yes	S-1B-04	4	7/16/2007	Af	210	2	380	95.72
No	OB-WBO-CS-2'	2	6/6/2003	Obispo	220	1	381	95.97
Yes	S-38B-03	3	7/17/2007	Soil-O	230	2	383	96.47
Yes	SV-56-05	5	7/10/2007	Obispo	230	2	383	96.47
Yes	B-167-95	50	11/21/1997	Obispo	270	2	385	96.98
Yes	SV-56-01	1	7/10/2007	Soil-O	270	2	385	96.98
Yes	B-216	5	4/2/2003	Soil	310	1	386	97.23
Yes	S-38A-03	3	7/17/2007	Soil-O	340	2	388	97.73
Yes	STR-4-1-1.0	1	4/26/2005	Tar/Soil-O	340	2	388	97.73
Yes	STR-13-1-0.5	0.5	4/26/2005	Tar/Soil-O	400	1	389	97.98
Yes	B-158	1	7/21/1999	Soil-P	500	2	391	98.49
No	Pirates Cove #1	0	7/28/1999	Obispo	500	2	391	98.49
Yes	S-29-0.5	0.5	6/5/2003	Soil-O	540	1	392	98.74
Yes	STR-6-1-0.5	0.5	4/26/2005	Tar/Soil-O	560	1	393	98.99
No	OB-SO-RR-0.5	0.5	6/6/2003	Soil-O	750	1	394	99.24
Yes	GS-1-0	0	1/15/2004	Tar/Soil-P	900	1	395	99.50
Yes	STR-8-1-0.5	0.5	4/26/2005	Tar/Soil-P	970	1	396	99.75

Table A-2
All Samples Tested for Molybdenum
 Avila Tank Farm, Avila Beach, California
 (Concentrations in mg/kg)

On-site?	Sample Location	Depth (ft)	Date Sampled	Geologic Unit	Mo	Mo - 1/2 Det.	Abs. Freq.	Cum. Freq.	Probability
Yes	B-12	5	09/24/97	Soil-P	<1	0.5	229	229	57.68
Yes	B-14	1	09/24/97	Soil-P	<1	0.5	229	229	57.68
Yes	B-16	1	09/24/97	Soil-P	<1	0.5	229	229	57.68
Yes	B-18	5	09/26/97	Soil-P	<1	0.5	229	229	57.68
Yes	B-19	5	09/25/97	Soil-P	<1	0.5	229	229	57.68
Yes	B-27	5	09/26/97	Soil-O	<1	0.5	229	229	57.68
Yes	B-30	10	09/07/97	Soil-O	<1	0.5	229	229	57.68
Yes	B-31	20	09/06/97	Pismo	<1	0.5	229	229	57.68
Yes	B-34	5	09/25/97	Soil-P	<1	0.5	229	229	57.68
Yes	B-46	10	09/06/97	Soil-P	<1	0.5	229	229	57.68
Yes	B-47	5	09/25/97	Soil-P	<1	0.5	229	229	57.68
Yes	B-48	5	09/25/97	Soil-P	<1	0.5	229	229	57.68
Yes	B-49	5	09/25/97	Soil-P	<1	0.5	229	229	57.68
Yes	B-51	5	09/10/97	Pismo	<1	0.5	229	229	57.68
Yes	B-52	5	09/25/97	Pismo	<1	0.5	229	229	57.68
Yes	B-56	5	09/25/97	Soil-P	<1	0.5	229	229	57.68
Yes	B-67	5	09/04/97	Pismo	<1	0.5	229	229	57.68
Yes	B-73	1	09/03/97	Pismo	<1	0.5	229	229	57.68
Yes	B-80	5	09/25/97	Soil-P	<1	0.5	229	229	57.68
Yes	B-81-90	5	09/26/97	Soil-P	<1	0.5	229	229	57.68
Yes	B-86	5	09/19/97	Soil-P	<1	0.5	229	229	57.68
Yes	B-89	10	09/04/97	Soil-P	<1	0.5	229	229	57.68
Yes	B-89	60	09/04/97	Pismo	<1	0.5	229	229	57.68
Yes	B-95	5	09/18/97	Soil-P	<1	0.5	229	229	57.68
Yes	B-96	5	09/11/97	Soil-P	<1	0.5	229	229	57.68
Yes	B-114	5	08/27/97	Pismo	<1	0.5	229	229	57.68
Yes	B-116	5	08/27/97	Soil-P	<1	0.5	229	229	57.68
Yes	B-117	5	08/29/97	Soil-P	<1	0.5	229	229	57.68
Yes	B-117	25	08/29/97	Pismo	<1	0.5	229	229	57.68
Yes	B-119	5	09/02/97	Pismo	<1	0.5	229	229	57.68
Yes	B-122	5	08/27/97	Af	<1	0.5	229	229	57.68
Yes	B-130	5	08/25/97	Pismo	<1	0.5	229	229	57.68
Yes	B-136	1	09/18/97	Soil-P	<1	0.5	229	229	57.68
Yes	B-136	10	09/18/97	Pismo	<1	0.5	229	229	57.68
Yes	B-138	30	09/05/97	Obispo	<1	0.5	229	229	57.68
Yes	B-141	5	09/26/97	Pismo	<1	0.5	229	229	57.68
Yes	B-146	5	11/24/97	Soil-P	<1	0.5	229	229	57.68
Yes	B-153	110	11/26/97	Pismo	<1	0.5	229	229	57.68
Yes	B-157	5	07/20/99	Soil-P	<1	0.5	229	229	57.68
Yes	B-161	5	07/20/99	Soil-P	<1	0.5	229	229	57.68
Yes	B-163	5	11/20/97	Soil-P	<1	0.5	229	229	57.68
Yes	B-171	15	11/24/97	Soil-P	<1	0.5	229	229	57.68
Yes	B-173	55	11/18/97	Obispo	<1	0.5	229	229	57.68
Yes	B-174	5	07/21/99	Pismo	<1	0.5	229	229	57.68
Yes	B-183	5	07/23/99	Soil-P	<1	0.5	229	229	57.68
Yes	B-184	5	07/22/99	Soil-P	<1	0.5	229	229	57.68
Yes	B-186-56	10	07/26/99	Soil-P	<1	0.5	229	229	57.68
Yes	B-196	5	07/21/99	Soil-P	<1	0.5	229	229	57.68
Yes	B-197	130	07/22/99	Pismo	<1	0.5	229	229	57.68
Yes	B-197	180	07/22/99	Obispo	<1	0.5	229	229	57.68
Yes	B-203	11	02/26/01	Soil-P	<1	0.5	229	229	57.68
Yes	B-203	50	02/26/01	Pismo	<1	0.5	229	229	57.68

Table A-2
All Samples Tested for Molybdenum
 Avila Tank Farm, Avila Beach, California
 (Concentrations in mg/kg)

On-site?	Sample Location	Depth (ft)	Date Sampled	Geologic Unit	Mo	Mo - 1/2 Det.	Abs. Freq.	Cum. Freq.	Probability
Yes	B-209	11	03/02/01	Pismo	<1	0.5	229	229	57.68
Yes	B-209	21	03/02/01	Pismo	<1	0.5	229	229	57.68
Yes	B-210	10	03/01/01	Pismo	<1	0.5	229	229	57.68
Yes	B-210	21	03/01/01	Pismo	<1	0.5	229	229	57.68
Yes	B-211	6	03/02/01	Pismo	<1	0.5	229	229	57.68
Yes	B-211	11	03/02/01	Pismo	<1	0.5	229	229	57.68
Yes	B-211	20	03/02/01	Pismo	<1	0.5	229	229	57.68
Yes	B-212	11	03/02/01	Pismo	<1	0.5	229	229	57.68
Yes	B-215	5	05/29/02	Pismo	<1	0.5	229	229	57.68
Yes	B-216	5	04/02/03	Soil	<1	0.5	229	229	57.68
Yes	B-216	15	04/02/03	Soil	<1	0.5	229	229	57.68
Yes	B-216	25	04/02/03	Soil	<1	0.5	229	229	57.68
Yes	B-217	5	04/02/03	Soil-O	<1	0.5	229	229	57.68
Yes	B-217	45	04/02/03	Obispo	<1	0.5	229	229	57.68
Yes	SP-5	35	03/04/01	Pismo	<1	0.5	229	229	57.68
Yes	S-1-0.5	0.5	06/04/03	Af	<1	0.5	229	229	57.68
Yes	S-1-2.5	2.5	06/04/03	Af	<1	0.5	229	229	57.68
Yes	S-2-0.5	0.5	06/04/03	Soil-P	<1	0.5	229	229	57.68
Yes	S-2-2.5	2.5	06/04/03	Soil-P	<1	0.5	229	229	57.68
Yes	S-3-0.5	0.5	06/04/03	Pismo	<1	0.5	229	229	57.68
Yes	S-3-2.5	2.5	06/04/03	Pismo	<1	0.5	229	229	57.68
Yes	S-4-2.5	2.5	06/04/03	Pismo	<1	0.5	229	229	57.68
Yes	S-5-0.5	0.5	06/05/03	Soil-P	<1	0.5	229	229	57.68
Yes	S-5-2.5	2.5	06/05/03	Soil-P	<1	0.5	229	229	57.68
Yes	S-6-0.5	0.5	06/05/03	Soil-P	<1	0.5	229	229	57.68
Yes	S-6-2.5	2.5	06/05/03	Pismo	<1	0.5	229	229	57.68
Yes	S-7-0.5	0.5	06/04/03	Soil-P	<1	0.5	229	229	57.68
Yes	S-7-2.5	2.5	06/04/03	Soil-P	<1	0.5	229	229	57.68
Yes	S-8-2.5	2.5	06/04/03	Soil-P	<1	0.5	229	229	57.68
Yes	S-9-2.5	2.5	06/05/03	Soil-P	<1	0.5	229	229	57.68
Yes	S-10-0.5	0.5	06/04/03	Soil-P	<1	0.5	229	229	57.68
Yes	S-10-2.5	2.5	06/04/03	Pismo	<1	0.5	229	229	57.68
Yes	S-11-0.5	0.5	06/05/03	Soil-O	<1	0.5	229	229	57.68
Yes	S-11-2.5	2.5	06/05/03	Soil-O	<1	0.5	229	229	57.68
Yes	S-12-0.5	0.5	06/05/03	Pismo	<1	0.5	229	229	57.68
Yes	S-12-2.5	2.5	06/05/03	Pismo	<1	0.5	229	229	57.68
Yes	S-13-0.5	0.5	06/05/03	Pismo	<1	0.5	229	229	57.68
Yes	S-13-2.5	2.5	06/05/03	Pismo	<1	0.5	229	229	57.68
Yes	S-14-0.5	0.5	06/05/03	Soil-O	<1	0.5	229	229	57.68
Yes	S-14-2.5	2.5	06/05/03	Soil-P	<1	0.5	229	229	57.68
Yes	S-15-0.5	0.5	06/04/03	Soil-P	<1	0.5	229	229	57.68
Yes	S-15-2.5	2.5	06/04/03	Soil-P	<1	0.5	229	229	57.68
Yes	S-16-0.5	0.5	06/04/03	Soil-P	<1	0.5	229	229	57.68
Yes	S-16-2.5	2.5	06/04/03	Soil-P	<1	0.5	229	229	57.68
Yes	S-17-0.5	0.5	06/05/03	Soil-P	<1	0.5	229	229	57.68
Yes	S-17-2.5	2.5	06/05/03	Soil-P	<1	0.5	229	229	57.68
Yes	S-19-0.5	0.5	06/05/03	Soil-P	<1	0.5	229	229	57.68
Yes	S-19-2.5	2.5	06/05/03	Soil-P	<1	0.5	229	229	57.68
Yes	S-20-0.5	0.5	06/05/03	Soil-P	<1	0.5	229	229	57.68
Yes	S-20-2.5	2.5	06/05/03	Soil-P	<1	0.5	229	229	57.68
Yes	S-21-0.5	0.5	06/05/03	Soil-P	<1	0.5	229	229	57.68
Yes	S-21-2.5	2.5	06/05/03	Pismo	<1	0.5	229	229	57.68

Table A-2
All Samples Tested for Molybdenum
 Avila Tank Farm, Avila Beach, California
 (Concentrations in mg/kg)

On-site?	Sample Location	Depth (ft)	Date Sampled	Geologic Unit	Mo	Mo - 1/2 Det.	Abs. Freq.	Cum. Freq.	Probability
Yes	S-22-0.5	0.5	06/05/03	Soil-P	<1	0.5	229	229	57.68
Yes	S-22-2.5	2.5	06/05/03	Soil-P	<1	0.5	229	229	57.68
Yes	S-23-0.5	0.5	06/05/03	Soil-P	<1	0.5	229	229	57.68
Yes	S-23-2.5	2.5	06/05/03	Pismo	<1	0.5	229	229	57.68
Yes	S-24-0.5	0.5	06/05/03	Soil-O	<1	0.5	229	229	57.68
Yes	S-24-2.5	2.5	06/05/03	Soil-O	<1	0.5	229	229	57.68
Yes	S-25-0.5	0.5	06/05/03	Pismo	<1	0.5	229	229	57.68
Yes	S-25-2.5	2.5	06/05/03	Soil-P	<1	0.5	229	229	57.68
Yes	S-26-0.5	0.5	06/05/03	Soil-O	<1	0.5	229	229	57.68
Yes	S-26-2.5	2.5	06/05/03	Soil-O	<1	0.5	229	229	57.68
Yes	S-27-0.5	0.5	06/05/03	Soil-O	<1	0.5	229	229	57.68
Yes	S-27-2.5	2.5	06/05/03	Soil-O	<1	0.5	229	229	57.68
Yes	S-28-0.5	0.5	06/05/03	Soil-O	<1	0.5	229	229	57.68
Yes	S-28-2.5	2.5	06/05/03	Soil-O	<1	0.5	229	229	57.68
Yes	S-29-0.5	0.5	06/05/03	Soil-O	<1	0.5	229	229	57.68
Yes	S-29-2.5	2.5	06/05/03	Soil-O	<1	0.5	229	229	57.68
Yes	S-30-0.5	0.5	06/04/03	Pismo	<1	0.5	229	229	57.68
Yes	S-30-2.5	2.5	06/04/03	Pismo	<1	0.5	229	229	57.68
Yes	S-31-0.5	0.5	06/04/03	Soil-P	<1	0.5	229	229	57.68
Yes	S-31-2.5	2.5	06/04/03	Soil-P	<1	0.5	229	229	57.68
Yes	S-32-0.5	0.5	06/04/03	Soil-P	<1	0.5	229	229	57.68
Yes	S-32-2.5	2.5	06/04/03	Pismo	<1	0.5	229	229	57.68
Yes	S-33-0.5	0.5	06/04/03	Soil-P	<1	0.5	229	229	57.68
Yes	S-33-2.5	2.5	06/04/03	Soil-P	<1	0.5	229	229	57.68
Yes	S-34-0.5	0.5	06/04/03	Soil-O	<1	0.5	229	229	57.68
Yes	S-34-2.5	2.5	06/04/03	Soil-O	<1	0.5	229	229	57.68
Yes	S-35-0.5	0.5	06/04/03	Soil-P	<1	0.5	229	229	57.68
Yes	S-35-2.5	2.5	06/04/03	Soil-P	<1	0.5	229	229	57.68
Yes	S-36-2.5	2.5	06/04/03	Pismo	<1	0.5	229	229	57.68
Yes	S-37-0.5	0.5	06/04/03	Soil-O	<1	0.5	229	229	57.68
Yes	S-37-2.5	2.5	06/04/03	Soil-O	<1	0.5	229	229	57.68
Yes	S-38-0.5	0.5	06/05/03	Soil-O	<1	0.5	229	229	57.68
Yes	S-38-2.5	2.5	06/05/03	Soil-O	<1	0.5	229	229	57.68
Yes	S-39-2.5	2.5	06/05/03	Soil-P	<1	0.5	229	229	57.68
Yes	S-40-0.5	0.5	06/05/03	Pismo	<1	0.5	229	229	57.68
Yes	S-40-2.5	2.5	06/05/03	Pismo	<1	0.5	229	229	57.68
Yes	S-41-0.5	0.5	06/04/03	Soil-O	<1	0.5	229	229	57.68
Yes	S-41-2.5	2.5	06/04/03	Soil-O	<1	0.5	229	229	57.68
Yes	S-42-0.5	0.5	06/04/03	Soil-O	<1	0.5	229	229	57.68
Yes	S-42-2.5	2.5	06/04/03	Soil-O	<1	0.5	229	229	57.68
Yes	S-43-0.5	0.5	06/04/03	Soil-O	<1	0.5	229	229	57.68
Yes	S-43-2.5	2.5	06/04/03	Soil-O	<1	0.5	229	229	57.68
Yes	S-44-0.5	0.5	06/04/03	Soil-P	<1	0.5	229	229	57.68
Yes	S-44-2.5	2.5	06/04/03	Soil-P	<1	0.5	229	229	57.68
Yes	S-45-0.5	0.5	06/04/03	Soil-O	<1	0.5	229	229	57.68
Yes	S-45-2.5	2.5	06/04/03	Soil-O	<1	0.5	229	229	57.68
Yes	S-46-0.5	0.5	06/04/03	Soil-P	<1	0.5	229	229	57.68
Yes	S-46-2.5	2.5	06/04/03	Soil-P	<1	0.5	229	229	57.68
Yes	S-9A-0.5	0.5	01/14/04	Soil-P	<1	0.5	229	229	57.68
Yes	S-9A-2.5	2.5	01/14/04	Soil-P	<1	0.5	229	229	57.68
Yes	S-9B-0.5	0.5	01/14/04	Soil-P	<1	0.5	229	229	57.68
Yes	S-9B-2.5	2.5	01/14/04	Soil-P	<1	0.5	229	229	57.68

Table A-2
All Samples Tested for Molybdenum
 Avila Tank Farm, Avila Beach, California
 (Concentrations in mg/kg)

On-site?	Sample Location	Depth (ft)	Date Sampled	Geologic Unit	Mo	Mo - 1/2 Det.	Abs. Freq.	Cum. Freq.	Probability
Yes	S-9C-0.5	0.5	01/14/04	Soil-P	<1	0.5	229	229	57.68
Yes	S-9C-2.5	2.5	01/14/04	Soil-P	<1	0.5	229	229	57.68
Yes	S-9D-2.5	2.5	01/14/04	Soil-P	<1	0.5	229	229	57.68
Yes	S-11A-0.5	0.5	01/14/04	Soil-O	<1	0.5	229	229	57.68
Yes	S-11A-2.5	2.5	01/14/04	Soil-O	<1	0.5	229	229	57.68
Yes	S-11B-0.5	0.5	01/14/04	Soil-O	<1	0.5	229	229	57.68
Yes	S-11B-2.5	2.5	01/14/04	Soil-O	<1	0.5	229	229	57.68
Yes	S-11C-0.5	0.5	01/14/04	Soil-O	<1	0.5	229	229	57.68
Yes	S-11C-2.0	2	01/14/04	Soil-O	<1	0.5	229	229	57.68
Yes	S-11C-2.5	2.5	01/14/04	Soil-O	<1	0.5	229	229	57.68
Yes	S-11D-0.5	0.5	01/14/04	Soil-O	<1	0.5	229	229	57.68
Yes	S-11D-2.5	2.5	01/14/04	Soil-O	<1	0.5	229	229	57.68
Yes	S-24A-0.5	0.5	01/14/04	Soil-O	<1	0.5	229	229	57.68
Yes	S-24A-2.5	2.5	01/14/04	Soil-O	<1	0.5	229	229	57.68
Yes	S-24B-0.5	0.5	01/14/04	Obispo	<1	0.5	229	229	57.68
Yes	S-24B-2.5	2.5	01/14/04	Obispo	<1	0.5	229	229	57.68
Yes	S-24C-0.5	0.5	01/14/04	Soil-O	<1	0.5	229	229	57.68
Yes	S-24C-2.5	2.5	01/14/04	Soil-O	<1	0.5	229	229	57.68
Yes	S-27A-0.5	0.5	01/13/04	Soil-O	<1	0.5	229	229	57.68
Yes	S-27A-2.5	2.5	01/13/04	Soil-O	<1	0.5	229	229	57.68
Yes	S-27B-0.5	0.5	01/13/04	Soil-O	<1	0.5	229	229	57.68
Yes	S-27B-2.5	2.5	01/13/04	Soil-O	<1	0.5	229	229	57.68
Yes	S-27C-0.5	0.5	01/14/04	Soil-O	<1	0.5	229	229	57.68
Yes	S-27C-2.5	2.5	01/14/04	Soil-O	<1	0.5	229	229	57.68
Yes	S-27D-0.5	0.5	01/14/04	Soil-O	<1	0.5	229	229	57.68
Yes	S-27D-2.5	2.5	01/14/04	Soil-O	<1	0.5	229	229	57.68
Yes	S-27E-0.5	0.5	01/13/04	Soil-P	<1	0.5	229	229	57.68
Yes	S-27E-2.5	2.5	01/13/04	Soil-P	<1	0.5	229	229	57.68
Yes	S-27F-0.5	0.5	01/13/04	Soil-O	<1	0.5	229	229	57.68
Yes	S-27F-2.5	2.5	01/13/04	Soil-O	<1	0.5	229	229	57.68
Yes	S-27G-0.5	0.5	01/13/04	Soil-P	<1	0.5	229	229	57.68
Yes	S-27G-2.5	2.5	01/13/04	Soil-P	<1	0.5	229	229	57.68
Yes	S-45A-0.5	0.5	01/14/04	Soil-O	<1	0.5	229	229	57.68
Yes	S-45A-2.5	2.5	01/14/04	Soil-O	<1	0.5	229	229	57.68
Yes	GS-1-2.5	2.5	01/15/04	Soil-P	<1	0.5	229	229	57.68
Yes	GS-1-4	4	01/15/04	Pismo	<1	0.5	229	229	57.68
Yes	GS-3-2	2	01/15/04	Tar/Soil-P	<1	0.5	229	229	57.68
Yes	GS-3-5	5	01/15/04	Soil-P	<1	0.5	229	229	57.68
Yes	GS-3-6	6	01/15/04	Soil-P	<1	0.5	229	229	57.68
Yes	GS-4-6	6	01/15/04	Soil-P	<1	0.5	229	229	57.68
Yes	GS-5-2.5	2.5	01/15/04	Soil-P	<1	0.5	229	229	57.68
Yes	BERM-1	0.5	09/21/97	Tar/Soil-P	<1.0	0.5	229	229	57.68
Yes	BERM-2	0.5	09/21/97	Tar/Soil-P	<1.0	0.5	229	229	57.68
Yes	BERM-3	0.5	09/21/97	Tar/Soil-P	<1.0	0.5	229	229	57.68
Yes	BERM-4	0.5	09/21/97	Tar/Soil-P	<1.0	0.5	229	229	57.68
Yes	BERM-5	0.5	09/21/97	Tar/Soil-O	<1.0	0.5	229	229	57.68
Yes	WL-1-1	0	2/24/2005	Soil-O	<1	0.5	229	229	57.68
Yes	WL-1-2	0	2/24/2005	Soil-O	<1	0.5	229	229	57.68
Yes	WL-2-1	0	2/24/2005	Soil-O	<1	0.5	229	229	57.68
Yes	WL-2-2	0	2/24/2005	Soil-O	<1	0.5	229	229	57.68
Yes	WL-3-1	0	2/24/2005	Soil-P	<1	0.5	229	229	57.68
Yes	WL-3-2	0	2/24/2005	Soil-P	<1	0.5	229	229	57.68

Table A-2
All Samples Tested for Molybdenum
 Avila Tank Farm, Avila Beach, California
 (Concentrations in mg/kg)

On-site?	Sample Location	Depth (ft)	Date Sampled	Geologic Unit	Mo	Mo - 1/2 Det.	Abs. Freq.	Cum. Freq.	Probability
Yes	WL-4-1	0	2/24/2005	Soil-P	<1	0.5	229	229	57.68
Yes	WL-5-1	0	2/24/2005	Soil-P	<1	0.5	229	229	57.68
Yes	WL-5-2	0	2/24/2005	Soil-P	<1	0.5	229	229	57.68
Yes	WL-6-1	0	2/24/2005	Soil-P	<1	0.5	229	229	57.68
Yes	WL-6-2	0	2/24/2005	Soil-P	<1	0.5	229	229	57.68
No	GMW-16	25	04/23/97	Obispo	<1	0.5	229	229	57.68
No	GMW-16	45	04/23/97	Obispo	<1	0.5	229	229	57.68
No	Avila Beach #1	0	07/28/99	Obispo	<1	0.5	229	229	57.68
No	Avila Beach #2	0	07/28/99	Obispo	<1	0.5	229	229	57.68
No	OB-SO-CS-0.5	0.5	06/06/03	Soil-O	<1	0.5	229	229	57.68
No	OB-SO-PC-0.5'	0.5	06/06/03	Soil-O	<1	0.5	229	229	57.68
No	OB-SO-RR-0.5	0.5	06/06/03	Soil-O	<1	0.5	229	229	57.68
No	OB-SP-FH-0.5	0.5	06/06/03	Soil-P	<1	0.5	229	229	57.68
No	OB-SP-FSA-0.5	0.5	06/06/03	Soil-P	<1	0.5	229	229	57.68
No	OB-SP-FSL-2'	2	06/06/03	Soil-P	<1	0.5	229	229	57.68
No	OB-WBO-CS-2'	2	06/06/03	Obispo	<1	0.5	229	229	57.68
No	OB-WBO-PC-2'	2	06/06/03	Obispo	<1	0.5	229	229	57.68
No	OB-WBO-RR-0.5	0.5	06/06/03	Obispo	<1	0.5	229	229	57.68
No	OB-WBP-FH-0.5	0.5	06/06/03	Pismo	<1	0.5	229	229	57.68
No	OB-WBP-FSA-0.5	0.5	06/06/03	Pismo	<1	0.5	229	229	57.68
No	OB-WBP-FSL-3'	3	06/06/03	Pismo	<1	0.5	229	229	57.68
Yes	B-194	50	07/19/99	Pismo	1	1	72	301	75.82
Yes	B-212	21	03/02/01	Pismo	1	1	72	301	75.82
Yes	S-18-0.5	0.5	06/05/03	Soil-P	1	1	72	301	75.82
Yes	S-1A-01	1	7/16/2007	Af	<2	1	72	301	75.82
Yes	S-1A-03	3	7/16/2007	Af	<2	1	72	301	75.82
Yes	S-1B-01	1	7/16/2007	Af	<2	1	72	301	75.82
Yes	S-1B-04	4	7/16/2007	Af	<2	1	72	301	75.82
Yes	S-1C-01	1	7/16/2007	Af	<2	1	72	301	75.82
Yes	S-1C-04	4	7/16/2007	Af	<2	1	72	301	75.82
Yes	S-38A-01	1	7/17/2007	Soil-O	<2	1	72	301	75.82
Yes	S-38B-01	1	7/17/2007	Soil-O	<2	1	72	301	75.82
Yes	S-40A-03	3	7/16/2007	Pismo	<2	1	72	301	75.82
Yes	S-40B-01	1	7/16/2007	Soil-P	<2	1	72	301	75.82
Yes	S-40B-03	3	7/16/2007	Pismo	<2	1	72	301	75.82
Yes	S-47-01	1	7/11/2007	Soil-O	<2	1	72	301	75.82
Yes	S-47-05	5	7/11/2007	Soil-O	<2	1	72	301	75.82
Yes	S-48-01	1	7/10/2007	Soil-O	<2	1	72	301	75.82
Yes	S-48-05	5	7/10/2007	Obispo	<2	1	72	301	75.82
Yes	S-49-01	1	7/10/2007	Soil-O	<2	1	72	301	75.82
Yes	S-49-05	5	7/10/2007	Obispo	<2	1	72	301	75.82
Yes	SV-02-01	1	7/11/2007	Qal	<2	1	72	301	75.82
Yes	SV-02-05	5	7/11/2007	Qal	<2	1	72	301	75.82
Yes	SV-02-10	10	7/11/2007	Qal	<2	1	72	301	75.82
Yes	SV-03-01	1	7/11/2007	Qal	<2	1	72	301	75.82
Yes	SV-03-05	5	7/11/2007	Qal	<2	1	72	301	75.82
Yes	SV-03-10	10	7/11/2007	Qal	<2	1	72	301	75.82
Yes	SV-04-01	1	7/11/2007	Qcol	<2	1	72	301	75.82
Yes	SV-04-05	5	7/11/2007	Qcol	<2	1	72	301	75.82
Yes	SV-04-10	10	7/11/2007	Qcol	<2	1	72	301	75.82
Yes	SV-05-01	1	7/11/2007	Soil-O	<2	1	72	301	75.82
Yes	SV-05-10	10	7/11/2007	Obispo	<2	1	72	301	75.82

Table A-2
All Samples Tested for Molybdenum
 Avila Tank Farm, Avila Beach, California
 (Concentrations in mg/kg)

On-site?	Sample Location	Depth (ft)	Date Sampled	Geologic Unit	Mo	Mo - 1/2 Det.	Abs. Freq.	Cum. Freq.	Probability
Yes	SV-08-01	1	7/12/2007	Soil-P	<2	1	72	301	75.82
Yes	SV-08-05	5	7/12/2007	Pismo	<2	1	72	301	75.82
Yes	SV-32-01	1	7/13/2007	Soil-O	<2	1	72	301	75.82
Yes	SV-32-05	5	7/13/2007	Soil-O	<2	1	72	301	75.82
Yes	SV-35-01	1	7/12/2007	Soil-O	<2	1	72	301	75.82
Yes	SV-35-05	5	7/12/2007	Soil-O	<2	1	72	301	75.82
Yes	SV-36-01	1	7/10/2007	Soil-O	<2	1	72	301	75.82
Yes	SV-36-05	5	7/10/2007	Soil-O	<2	1	72	301	75.82
Yes	SV-37-01	1	7/12/2007	Soil-O	<2	1	72	301	75.82
Yes	SV-37-05	5	7/12/2007	Soil-O	<2	1	72	301	75.82
Yes	SV-38-01	1	7/12/2007	Soil-P	<2	1	72	301	75.82
Yes	SV-38-05	5	7/12/2007	Obispo	<2	1	72	301	75.82
Yes	SV-41-01	1	7/13/2007	Soil-P	<2	1	72	301	75.82
Yes	SV-41-05	5	7/13/2007	Pismo	<2	1	72	301	75.82
Yes	SV-45-01	1	7/12/2007	Soil-P	<2	1	72	301	75.82
Yes	SV-50-01	1	7/12/2007	Soil-P	<2	1	72	301	75.82
Yes	SV-50-05	5	7/12/2007	Pismo	<2	1	72	301	75.82
Yes	SV-51-01	1	7/9/2007	Soil-P	<2	1	72	301	75.82
Yes	SV-51-05	5	7/9/2007	Pismo	<2	1	72	301	75.82
Yes	SV-52-01	1	7/9/2007	Soil-P	<2	1	72	301	75.82
Yes	SV-52-05	5	7/9/2007	Pismo	<2	1	72	301	75.82
Yes	SV-53-01	1	7/9/2007	Soil-P	<2	1	72	301	75.82
Yes	SV-53-05	5	7/9/2007	Pismo	<2	1	72	301	75.82
Yes	SV-54-02	2	7/9/2007	Soil-P	<2	1	72	301	75.82
Yes	SV-54-05	5	7/9/2007	Pismo	<2	1	72	301	75.82
Yes	SV-55-01	1	7/10/2007	Soil-O	<2	1	72	301	75.82
Yes	SV-55-05	5	7/10/2007	Obispo	<2	1	72	301	75.82
Yes	SV-55-10	10	7/10/2007	Obispo	<2	1	72	301	75.82
Yes	SV-56-01	1	7/10/2007	Soil-O	<2	1	72	301	75.82
Yes	SV-56-10	10	7/10/2007	Obispo	<2	1	72	301	75.82
Yes	SV-57-01	1	7/12/2007	Soil-P	<2	1	72	301	75.82
Yes	SV-57-05	5	7/12/2007	Pismo	<2	1	72	301	75.82
Yes	SV-58-02	2	7/10/2007	Soil-P	<2	1	72	301	75.82
Yes	SV-58-05	5	7/10/2007	Soil-P	<2	1	72	301	75.82
Yes	SV-60-01	1	7/10/2007	Soil-P	<2	1	72	301	75.82
Yes	SV-60-05	5	7/10/2007	Soil-P	<2	1	72	301	75.82
Yes	SV-61-01	1	7/10/2007	Soil-P	<2	1	72	301	75.82
Yes	SV-61-05	5	7/10/2007	Soil-P	<2	1	72	301	75.82
Yes	SV-62-01	1	7/10/2007	Soil-P	<2	1	72	301	75.82
Yes	SV-62-05	5	7/10/2007	Soil-P	<2	1	72	301	75.82
Yes	SV-63-05	5	7/9/2007	Soil-P	<2	1	72	301	75.82
Yes	B-53	5	09/10/97	Soil-P	1.1	1.1	4	305	76.83
Yes	B-140	5	09/23/97	Soil-O	1.1	1.1	4	305	76.83
Yes	B-159	5	07/20/99	Soil-P	1.1	1.1	4	305	76.83
Yes	B-179	5	07/21/99	Soil-P	1.1	1.1	4	305	76.83
Yes	B-152	125	11/25/97	Pismo	1.2	1.2	7	312	78.59
Yes	B-165	5	07/19/99	Soil-P	1.2	1.2	7	312	78.59
Yes	B-184	90	07/22/99	Pismo	1.2	1.2	7	312	78.59
Yes	B-198	10	02/26/01	Soil-P	1.2	1.2	7	312	78.59
Yes	STR-14-1-0.5	0.5	4/26/2005	Tar/Soil-O	1.2	1.2	7	312	78.59
Yes	WL-4-2	0	2/24/2005	Soil-P	1.2	1.2	7	312	78.59
No	Pirates Cove #1	0	07/28/99	Obispo	1.2	1.2	7	312	78.59

Table A-2
All Samples Tested for Molybdenum
 Avila Tank Farm, Avila Beach, California
 (Concentrations in mg/kg)

On-site?	Sample Location	Depth (ft)	Date Sampled	Geologic Unit	Mo	Mo - 1/2 Det.	Abs. Freq.	Cum. Freq.	Probability
Yes	B-158	1	07/21/99	Soil-P	1.3	1.3	3	315	79.35
Yes	B-210	31	03/01/01	Pismo	1.3	1.3	3	315	79.35
Yes	S-36-0.5	0.5	06/04/03	Pismo	1.3	1.3	3	315	79.35
Yes	B-65	10	09/22/97	Soil-P	1.4	1.4	5	320	80.60
Yes	B-178	5	07/20/99	Pismo	1.4	1.4	5	320	80.60
Yes	B-191	10	07/27/99	Obispo	1.4	1.4	5	320	80.60
Yes	B-202	15	05/29/02	Soil-O	1.4	1.4	5	320	80.60
No	OB-SP-FSL-0.5	0.5	06/06/03	Soil-P	1.4	1.4	5	320	80.60
Yes	B-40	5	09/09/97	Soil-P	1.5	1.5	4	324	81.61
Yes	B-94	5	08/28/97	Soil-P	1.5	1.5	4	324	81.61
Yes	S-39-0.5	0.5	06/05/03	Soil-P	1.5	1.5	4	324	81.61
Yes	STR-4-2-1.5	1.5	4/26/2005	Soil-O	<2.5	1.5	4	324	81.61
Yes	S-8-0.5	0.5	06/04/03	Soil-P	1.6	1.6	4	328	82.62
Yes	S-18-2.5	2.5	06/05/03	Pismo	1.6	1.6	4	328	82.62
Yes	S-9D-0.5	0.5	01/14/04	Soil-P	1.6	1.6	4	328	82.62
Yes	STR-10-1-0.5	0.5	4/26/2005	Tar/Soil-P	1.6	1.6	4	328	82.62
Yes	B-50	5	09/25/97	Pismo	1.7	1.7	4	332	83.63
Yes	B-104	5	09/17/97	Soil-P	1.7	1.7	4	332	83.63
Yes	B-210	6	03/01/01	Pismo	1.7	1.7	4	332	83.63
Yes	S-4-0.5	0.5	06/04/03	Soil-P	1.7	1.7	4	332	83.63
Yes	B-54	5	09/25/97	Soil-P	1.8	1.8	4	336	84.63
Yes	B-84	5	09/10/97	Pismo	1.8	1.8	4	336	84.63
Yes	STR-1-1-1.0	1	4/26/2005	Tar/Soil-O	1.8	1.8	4	336	84.63
Yes	STR-9-1-0.5	0.5	4/26/2005	Tar/Soil-P	1.8	1.8	4	336	84.63
Yes	B-83	85	09/23/97	Pismo	1.9	1.9	4	340	85.64
Yes	B-168	5	07/19/99	Soil-P	1.9	1.9	4	340	85.64
Yes	B-198	30	02/26/01	Soil-P	1.9	1.9	4	340	85.64
Yes	SP-5	15	03/04/01	Soil-P	1.9	1.9	4	340	85.64
Yes	B-209	6	03/02/01	Pismo	2	2	7	347	87.41
Yes	S-38A-03	3	7/17/2007	Soil-O	<4	2	7	347	87.41
Yes	S-38B-03	3	7/17/2007	Soil-O	<4	2	7	347	87.41
Yes	S-47-10	10	7/11/2007	Obispo	<4	2	7	347	87.41
Yes	SV-05-05	5	7/11/2007	Obispo	<4	2	7	347	87.41
Yes	SV-06-10	10	7/12/2007	Obispo	<4	2	7	347	87.41
Yes	SV-32-10	10	7/13/2007	Obispo	<4	2	7	347	87.41
Yes	B-186-56	5	07/26/99	Soil-P	2.2	2.2	4	351	88.41
Yes	B-210	15	03/01/01	Pismo	2.2	2.2	4	351	88.41
Yes	BERM-6	0.5	06/05/03	Tar/Soil-P	2.2	2.2	4	351	88.41
No	Pirates Cove #2	0	07/28/99	Obispo	2.2	2.2	4	351	88.41
Yes	B-153	75	11/26/97	Pismo	2.3	2.3	2	353	88.92
Yes	B-163	50	11/20/97	Pismo	2.3	2.3	2	353	88.92
Yes	SP-5	55	03/04/01	Obispo	2.5	2.5	3	356	89.67
Yes	STR-4-1-1.0	1	4/26/2005	Tar/Soil-O	2.5	2.5	3	356	89.67
Yes	SV-45-05	5	7/12/2007	Pismo	2.5	2.5	3	356	89.67
Yes	STR-11-1-0.5	0.5	4/26/2005	Tar/Soil-O	2.6	2.6	1	357	89.92
Yes	B-175	5	07/19/99	Pismo	2.7	2.7	1	358	90.18
Yes	B-176	5	07/20/99	Pismo	2.8	2.8	1	359	90.43
Yes	S-49-10	10	7/10/2007	Obispo	2.9	2.9	1	360	90.68
Yes	S-40A-01	1	7/16/2007	Soil-P	3	3	1	361	90.93
Yes	B-6	5	09/21/97	Pismo	3.1	3.1	4	365	91.94
Yes	B-85	5	09/19/97	Pismo	3.1	3.1	4	365	91.94
Yes	GS-4-2.5	2.5	01/15/04	Tar/Soil	3.1	3.1	4	365	91.94

Table A-2
All Samples Tested for Molybdenum
 Avila Tank Farm, Avila Beach, California
 (Concentrations in mg/kg)

On-site?	Sample Location	Depth (ft)	Date Sampled	Geologic Unit	Mo	Mo - 1/2 Det.	Abs. Freq.	Cum. Freq.	Probability
Yes	SV-06-01	1	7/12/2007	Soil-O	3.1	3.1	4	365	91.94
Yes	SV-06-05	5	7/12/2007	Obispo	3.2	3.2	1	366	92.19
Yes	B-152	50	11/23/97	Pismo	3.6	3.6	2	368	92.70
Yes	SV-56-05	5	7/10/2007	Obispo	3.6	3.6	2	368	92.70
Yes	B-36	5	09/23/97	Obispo	3.7	3.7	4	372	93.70
Yes	B-149	5	11/25/97	Soil-P	3.7	3.7	4	372	93.70
Yes	B-212	6	03/02/01	Pismo	3.7	3.7	4	372	93.70
Yes	S-9-0.5	0.5	06/05/03	Soil-P	3.7	3.7	4	372	93.70
Yes	GS-5-2	2	01/15/04	Tar/Soil	3.8	3.8	1	373	93.95
Yes	B-131	25	08/26/97	Obispo	4.3	4.3	3	376	94.71
Yes	GS-2-1	1	01/15/04	Tar/Soil-P	4.3	4.3	3	376	94.71
Yes	S-50-01	1	7/11/2007	Soil-O	4.3	4.3	3	376	94.71
Yes	STR-7-1-0.5	0.5	4/25/2005	Tar/Soil-O	4.5	4.5	1	377	94.96
Yes	B-167-95	50	11/21/97	Obispo	4.6	4.6	1	378	95.21
Yes	B-138	20	09/05/97	Pismo	4.7	4.7	1	379	95.47
Yes	B-57-65	5	09/24/97	Soil-P	5.1	5.1	2	381	95.97
Yes	B-76	25	09/03/97	Obispo	5.1	5.1	2	381	95.97
Yes	STR-13-1-0.5	0.5	4/26/2005	Tar/Soil-O	5.4	5.4	1	382	96.22
Yes	S-48-10	10	7/10/2007	Obispo	5.7	5.7	1	383	96.47
Yes	GS-1-0	0	01/15/04	Tar/Soil-P	5.8	5.8	1	384	96.73
Yes	STR-8-1-0.5	0.5	4/26/2005	Tar/Soil-P	5.9	5.9	1	385	96.98
Yes	STR-1-2-1.0	1	4/26/2005	Tar/Soil-O	<12	6	3	388	97.73
Yes	STR-5-1-0.5	0.5	4/25/2005	Tar/Soil-O	<12	6	3	388	97.73
Yes	SV-63-01	1	7/9/2007	Soil-P	6	6	3	388	97.73
Yes	B-76	15	09/03/97	Obispo	6.5	6.5	1	389	97.98
Yes	S-50-10	10	7/11/2007	Obispo	7.5	7.5	1	390	98.24
Yes	B-160	5	07/20/99	Soil-P	7.8	7.8	1	391	98.49
Yes	SV-01-01	1	7/11/2007	Soil-O	8.6	8.6	1	392	98.74
Yes	S-50-05	5	7/11/2007	Soil-O	10	10	1	393	98.99
Yes	SV-01-05	5	7/11/2007	Obispo	11	11	1	394	99.24
Yes	SV-01-10	10	7/11/2007	Obispo	15	15	1	395	99.50
Yes	STR-6-1-0.5	0.5	4/26/2005	Tar/Soil-O	37	37	1	396	99.75

Note: Values in "Red" font are one-half the Practical Quantitation Limit.

Table A-3
All Samples Tested for Thallium
Avila Tank Farm, Avila Beach, California
(Concentrations in mg/kg)

On-site?	Sample Location	Depth (ft)	Date Sampled	Geologic Unit	Tl	Tl - 1/2 Det.	Abs. Freq.	Cum. Freq.	Probability
Yes	STR-11-1-0.5	0.5	4/26/2005	Tar/Soil-O	0.74	0.74	1	1	0.25
Yes	STR-4-2-1.5	1.5	4/26/2005	Soil-O	0.75	0.75	2	3	0.76
Yes	STR-1-1-1.0	1	4/26/2005	Tar/Soil-O	0.75	0.75	2	3	0.76
Yes	STR-10-1-0.5	0.5	4/26/2005	Tar/Soil-P	0.86	0.86	1	4	1.01
Yes	STR-13-1-0.5	0.5	4/26/2005	Tar/Soil-O	1.6	1.6	1	5	1.26
Yes	B-12	5	09/24/97	Soil-P	<5	2.5	274	279	70.28
Yes	B-14	1	09/24/97	Soil-P	<5	2.5	274	279	70.28
Yes	B-16	1	09/24/97	Soil-P	<5	2.5	274	279	70.28
Yes	B-18	5	09/26/97	Soil-P	<5	2.5	274	279	70.28
Yes	B-19	5	09/25/97	Soil-P	<5	2.5	274	279	70.28
Yes	B-27	5	09/26/97	Soil-O	<5	2.5	274	279	70.28
Yes	B-30	10	09/07/97	Soil-O	<5	2.5	274	279	70.28
Yes	B-31	20	09/06/97	Pismo	<5	2.5	274	279	70.28
Yes	B-34	5	09/25/97	Soil-P	<5	2.5	274	279	70.28
Yes	B-46	10	09/06/97	Soil-P	<5	2.5	274	279	70.28
Yes	B-47	5	09/25/97	Soil-P	<5	2.5	274	279	70.28
Yes	B-48	5	09/25/97	Soil-P	<5	2.5	274	279	70.28
Yes	B-49	5	09/25/97	Soil-P	<5	2.5	274	279	70.28
Yes	B-51	5	09/10/97	Pismo	<5	2.5	274	279	70.28
Yes	B-52	5	09/25/97	Pismo	<5	2.5	274	279	70.28
Yes	B-56	5	09/25/97	Soil-P	<5	2.5	274	279	70.28
Yes	B-67	5	09/04/97	Pismo	<5	2.5	274	279	70.28
Yes	B-73	1	09/03/97	Pismo	<5	2.5	274	279	70.28
Yes	B-80	5	09/25/97	Soil-P	<5	2.5	274	279	70.28
Yes	B-81-90	5	09/26/97	Soil-P	<5	2.5	274	279	70.28
Yes	B-86	5	09/19/97	Soil-P	<5	2.5	274	279	70.28
Yes	B-89	10	09/04/97	Soil-P	<5	2.5	274	279	70.28
Yes	B-89	60	09/04/97	Pismo	<5	2.5	274	279	70.28
Yes	B-95	5	09/18/97	Soil-P	<5	2.5	274	279	70.28
Yes	B-96	5	09/11/97	Soil-P	<5	2.5	274	279	70.28
Yes	B-114	5	08/27/97	Pismo	<5	2.5	274	279	70.28
Yes	B-116	5	08/27/97	Soil-P	<5	2.5	274	279	70.28
Yes	B-117	5	08/29/97	Soil-P	<5	2.5	274	279	70.28
Yes	B-117	25	08/29/97	Pismo	<5	2.5	274	279	70.28
Yes	B-119	5	09/02/97	Pismo	<5	2.5	274	279	70.28
Yes	B-122	5	08/27/97	Af	<5	2.5	274	279	70.28
Yes	B-130	5	08/25/97	Pismo	<5	2.5	274	279	70.28
Yes	B-136	1	09/18/97	Soil-P	<5	2.5	274	279	70.28
Yes	B-136	10	09/18/97	Pismo	<5	2.5	274	279	70.28
Yes	B-138	30	09/05/97	Obispo	<5	2.5	274	279	70.28
Yes	B-141	5	09/26/97	Pismo	<5	2.5	274	279	70.28
Yes	B-146	5	11/24/97	Soil-P	<5	2.5	274	279	70.28
Yes	B-153	110	11/26/97	Pismo	<5	2.5	274	279	70.28
Yes	B-157	5	07/20/99	Soil-P	<5	2.5	274	279	70.28
Yes	B-161	5	07/20/99	Soil-P	<5	2.5	274	279	70.28
Yes	B-163	5	11/20/97	Soil-P	<5	2.5	274	279	70.28
Yes	B-171	15	11/24/97	Soil-P	<5	2.5	274	279	70.28
Yes	B-173	55	11/18/97	Obispo	<5	2.5	274	279	70.28
Yes	B-174	5	07/21/99	Pismo	<5	2.5	274	279	70.28
Yes	B-183	5	07/23/99	Soil-P	<5	2.5	274	279	70.28
Yes	B-184	5	07/22/99	Soil-P	<5	2.5	274	279	70.28
Yes	B-186-56	10	07/26/99	Soil-P	<5	2.5	274	279	70.28

Table A-3
All Samples Tested for Thallium
 Avila Tank Farm, Avila Beach, California
 (Concentrations in mg/kg)

On-site?	Sample Location	Depth (ft)	Date Sampled	Geologic Unit	Tl	Tl - 1/2 Det.	Abs. Freq.	Cum. Freq.	Probability
Yes	B-196	5	07/21/99	Soil-P	<5	2.5	274	279	70.28
Yes	B-197	130	07/22/99	Pismo	<5	2.5	274	279	70.28
Yes	B-197	180	07/22/99	Obispo	<5	2.5	274	279	70.28
Yes	B-203	11	02/26/01	Soil-P	<5	2.5	274	279	70.28
Yes	B-203	50	02/26/01	Pismo	<5	2.5	274	279	70.28
Yes	B-209	11	03/02/01	Pismo	<5	2.5	274	279	70.28
Yes	B-209	21	03/02/01	Pismo	<5	2.5	274	279	70.28
Yes	B-210	10	03/01/01	Pismo	<5	2.5	274	279	70.28
Yes	B-210	21	03/01/01	Pismo	<5	2.5	274	279	70.28
Yes	B-211	6	03/02/01	Pismo	<5	2.5	274	279	70.28
Yes	B-211	11	03/02/01	Pismo	<5	2.5	274	279	70.28
Yes	B-211	20	03/02/01	Pismo	<5	2.5	274	279	70.28
Yes	B-212	11	03/02/01	Pismo	<5	2.5	274	279	70.28
Yes	B-215	5	05/29/02	Pismo	<5	2.5	274	279	70.28
Yes	B-216	5	04/02/03	Soil	<5	2.5	274	279	70.28
Yes	B-216	15	04/02/03	Soil	<5	2.5	274	279	70.28
Yes	B-216	25	04/02/03	Soil	<5	2.5	274	279	70.28
Yes	B-217	5	04/02/03	Soil-O	<5	2.5	274	279	70.28
Yes	B-217	45	04/02/03	Obispo	<5	2.5	274	279	70.28
Yes	SP-5	35	03/04/01	Pismo	<5	2.5	274	279	70.28
Yes	S-1-0.5	0.5	06/04/03	Af	<5	2.5	274	279	70.28
Yes	S-1-2.5	2.5	06/04/03	Af	<5	2.5	274	279	70.28
Yes	S-2-0.5	0.5	06/04/03	Soil-P	<5	2.5	274	279	70.28
Yes	S-2-2.5	2.5	06/04/03	Soil-P	<5	2.5	274	279	70.28
Yes	S-3-0.5	0.5	06/04/03	Pismo	<5	2.5	274	279	70.28
Yes	S-3-2.5	2.5	06/04/03	Pismo	<5	2.5	274	279	70.28
Yes	S-4-2.5	2.5	06/04/03	Pismo	<5	2.5	274	279	70.28
Yes	S-5-0.5	0.5	06/05/03	Soil-P	<5	2.5	274	279	70.28
Yes	S-5-2.5	2.5	06/05/03	Soil-P	<5	2.5	274	279	70.28
Yes	S-6-0.5	0.5	06/05/03	Soil-P	<5	2.5	274	279	70.28
Yes	S-6-2.5	2.5	06/05/03	Pismo	<5	2.5	274	279	70.28
Yes	S-7-0.5	0.5	06/04/03	Soil-P	<5	2.5	274	279	70.28
Yes	S-7-2.5	2.5	06/04/03	Soil-P	<5	2.5	274	279	70.28
Yes	S-8-2.5	2.5	06/04/03	Soil-P	<5	2.5	274	279	70.28
Yes	S-9-2.5	2.5	06/05/03	Soil-P	<5	2.5	274	279	70.28
Yes	S-10-0.5	0.5	06/04/03	Soil-P	<5	2.5	274	279	70.28
Yes	S-10-2.5	2.5	06/04/03	Pismo	<5	2.5	274	279	70.28
Yes	S-12-0.5	0.5	06/05/03	Pismo	<5	2.5	274	279	70.28
Yes	S-12-2.5	2.5	06/05/03	Pismo	<5	2.5	274	279	70.28
Yes	S-13-0.5	0.5	06/05/03	Pismo	<5	2.5	274	279	70.28
Yes	S-13-2.5	2.5	06/05/03	Pismo	<5	2.5	274	279	70.28
Yes	S-15-0.5	0.5	06/04/03	Soil-P	<5	2.5	274	279	70.28
Yes	S-15-2.5	2.5	06/04/03	Soil-P	<5	2.5	274	279	70.28
Yes	S-17-0.5	0.5	06/05/03	Soil-P	<5	2.5	274	279	70.28
Yes	S-17-2.5	2.5	06/05/03	Soil-P	<5	2.5	274	279	70.28
Yes	S-19-0.5	0.5	06/05/03	Soil-P	<5	2.5	274	279	70.28
Yes	S-19-2.5	2.5	06/05/03	Soil-P	<5	2.5	274	279	70.28
Yes	S-20-0.5	0.5	06/05/03	Soil-P	<5	2.5	274	279	70.28
Yes	S-20-2.5	2.5	06/05/03	Soil-P	<5	2.5	274	279	70.28
Yes	S-21-0.5	0.5	06/05/03	Soil-P	<5	2.5	274	279	70.28
Yes	S-21-2.5	2.5	06/05/03	Pismo	<5	2.5	274	279	70.28
Yes	S-22-0.5	0.5	06/05/03	Soil-P	<5	2.5	274	279	70.28

Table A-3
All Samples Tested for Thallium
 Avila Tank Farm, Avila Beach, California
 (Concentrations in mg/kg)

On-site?	Sample Location	Depth (ft)	Date Sampled	Geologic Unit	Tl	Tl - 1/2 Det.	Abs. Freq.	Cum. Freq.	Probability
Yes	S-22-2.5	2.5	06/05/03	Soil-P	<5	2.5	274	279	70.28
Yes	S-27-0.5	0.5	06/05/03	Soil-O	<5	2.5	274	279	70.28
Yes	S-27-2.5	2.5	06/05/03	Soil-O	<5	2.5	274	279	70.28
Yes	S-28-0.5	0.5	06/05/03	Soil-O	<5	2.5	274	279	70.28
Yes	S-28-2.5	2.5	06/05/03	Soil-O	<5	2.5	274	279	70.28
Yes	S-30-0.5	0.5	06/04/03	Pismo	<5	2.5	274	279	70.28
Yes	S-30-2.5	2.5	06/04/03	Pismo	<5	2.5	274	279	70.28
Yes	S-31-0.5	0.5	06/04/03	Soil-P	<5	2.5	274	279	70.28
Yes	S-31-2.5	2.5	06/04/03	Soil-P	<5	2.5	274	279	70.28
Yes	S-32-0.5	0.5	06/04/03	Soil-P	<5	2.5	274	279	70.28
Yes	S-32-2.5	2.5	06/04/03	Pismo	<5	2.5	274	279	70.28
Yes	S-33-0.5	0.5	06/04/03	Soil-P	<5	2.5	274	279	70.28
Yes	S-33-2.5	2.5	06/04/03	Soil-P	<5	2.5	274	279	70.28
Yes	S-34-0.5	0.5	06/04/03	Soil-O	<5	2.5	274	279	70.28
Yes	S-34-2.5	2.5	06/04/03	Soil-O	<5	2.5	274	279	70.28
Yes	S-35-0.5	0.5	06/04/03	Soil-P	<5	2.5	274	279	70.28
Yes	S-35-2.5	2.5	06/04/03	Soil-P	<5	2.5	274	279	70.28
Yes	S-36-2.5	2.5	06/04/03	Pismo	<5	2.5	274	279	70.28
Yes	S-38-0.5	0.5	06/05/03	Soil-O	<5	2.5	274	279	70.28
Yes	S-38-2.5	2.5	06/05/03	Soil-O	<5	2.5	274	279	70.28
Yes	S-39-2.5	2.5	06/05/03	Soil-P	<5	2.5	274	279	70.28
Yes	S-40-0.5	0.5	06/05/03	Pismo	<5	2.5	274	279	70.28
Yes	S-40-2.5	2.5	06/05/03	Pismo	<5	2.5	274	279	70.28
Yes	S-41-0.5	0.5	06/04/03	Soil-O	<5	2.5	274	279	70.28
Yes	S-41-2.5	2.5	06/04/03	Soil-O	<5	2.5	274	279	70.28
Yes	S-43-0.5	0.5	06/04/03	Soil-O	<5	2.5	274	279	70.28
Yes	S-43-2.5	2.5	06/04/03	Soil-O	<5	2.5	274	279	70.28
Yes	S-44-0.5	0.5	06/04/03	Soil-P	<5	2.5	274	279	70.28
Yes	S-44-2.5	2.5	06/04/03	Soil-P	<5	2.5	274	279	70.28
Yes	S-45-0.5	0.5	06/04/03	Soil-O	<5	2.5	274	279	70.28
Yes	S-45-2.5	2.5	06/04/03	Soil-O	<5	2.5	274	279	70.28
Yes	S-46-0.5	0.5	06/04/03	Soil-P	<5	2.5	274	279	70.28
Yes	S-46-2.5	2.5	06/04/03	Soil-P	<5	2.5	274	279	70.28
Yes	S-9A-0.5	0.5	01/14/04	Soil-P	<5	2.5	274	279	70.28
Yes	S-9A-2.5	2.5	01/14/04	Soil-P	<5	2.5	274	279	70.28
Yes	S-9B-0.5	0.5	01/14/04	Soil-P	<5	2.5	274	279	70.28
Yes	S-9B-2.5	2.5	01/14/04	Soil-P	<5	2.5	274	279	70.28
Yes	S-9C-0.5	0.5	01/14/04	Soil-P	<5	2.5	274	279	70.28
Yes	S-9C-2.5	2.5	01/14/04	Soil-P	<5	2.5	274	279	70.28
Yes	S-9D-2.5	2.5	01/14/04	Soil-P	<5	2.5	274	279	70.28
Yes	S-11A-0.5	0.5	01/14/04	Soil-O	<5	2.5	274	279	70.28
Yes	S-11A-2.5	2.5	01/14/04	Soil-O	<5	2.5	274	279	70.28
Yes	S-11B-0.5	0.5	01/14/04	Soil-O	<5	2.5	274	279	70.28
Yes	S-11B-2.5	2.5	01/14/04	Soil-O	<5	2.5	274	279	70.28
Yes	S-11C-0.5	0.5	01/14/04	Soil-O	<5	2.5	274	279	70.28
Yes	S-11C-2.0	2	01/14/04	Soil-O	<5	2.5	274	279	70.28
Yes	S-11C-2.5	2.5	01/14/04	Soil-O	<5	2.5	274	279	70.28
Yes	S-11D-0.5	0.5	01/14/04	Soil-O	<5	2.5	274	279	70.28
Yes	S-11D-2.5	2.5	01/14/04	Soil-O	<5	2.5	274	279	70.28
Yes	S-24A-0.5	0.5	01/14/04	Soil-O	<5	2.5	274	279	70.28
Yes	S-24A-2.5	2.5	01/14/04	Soil-O	<5	2.5	274	279	70.28
Yes	S-24B-0.5	0.5	01/14/04	Obispo	<5	2.5	274	279	70.28

Table A-3
All Samples Tested for Thallium
 Avila Tank Farm, Avila Beach, California
 (Concentrations in mg/kg)

On-site?	Sample Location	Depth (ft)	Date Sampled	Geologic Unit	Tl	Tl - 1/2 Det.	Abs. Freq.	Cum. Freq.	Probability
Yes	S-24B-2.5	2.5	01/14/04	Obispo	<5	2.5	274	279	70.28
Yes	S-24C-0.5	0.5	01/14/04	Soil-O	<5	2.5	274	279	70.28
Yes	S-24C-2.5	2.5	01/14/04	Soil-O	<5	2.5	274	279	70.28
Yes	S-27A-0.5	0.5	01/13/04	Soil-O	<5	2.5	274	279	70.28
Yes	S-27A-2.5	2.5	01/13/04	Soil-O	<5	2.5	274	279	70.28
Yes	S-27B-0.5	0.5	01/13/04	Soil-O	<5	2.5	274	279	70.28
Yes	S-27B-2.5	2.5	01/13/04	Soil-O	<5	2.5	274	279	70.28
Yes	S-27C-0.5	0.5	01/14/04	Soil-O	<5	2.5	274	279	70.28
Yes	S-27C-2.5	2.5	01/14/04	Soil-O	<5	2.5	274	279	70.28
Yes	S-27D-0.5	0.5	01/14/04	Soil-O	<5	2.5	274	279	70.28
Yes	S-27D-2.5	2.5	01/14/04	Soil-O	<5	2.5	274	279	70.28
Yes	S-27E-0.5	0.5	01/13/04	Soil-P	<5	2.5	274	279	70.28
Yes	S-27E-2.5	2.5	01/13/04	Soil-P	<5	2.5	274	279	70.28
Yes	S-27F-0.5	0.5	01/13/04	Soil-O	<5	2.5	274	279	70.28
Yes	S-27F-2.5	2.5	01/13/04	Soil-O	<5	2.5	274	279	70.28
Yes	S-27G-0.5	0.5	01/13/04	Soil-P	<5	2.5	274	279	70.28
Yes	S-27G-2.5	2.5	01/13/04	Soil-P	<5	2.5	274	279	70.28
Yes	S-45A-0.5	0.5	01/14/04	Soil-O	<5	2.5	274	279	70.28
Yes	S-45A-2.5	2.5	01/14/04	Soil-O	<5	2.5	274	279	70.28
Yes	GS-1-2.5	2.5	01/15/04	Soil-P	<5	2.5	274	279	70.28
Yes	GS-1-4	4	01/15/04	Pismo	<5	2.5	274	279	70.28
Yes	GS-3-2	2	01/15/04	Tar/Soil-P	<5	2.5	274	279	70.28
Yes	GS-3-5	5	01/15/04	Soil-P	<5	2.5	274	279	70.28
Yes	GS-3-6	6	01/15/04	Soil-P	<5	2.5	274	279	70.28
Yes	GS-4-6	6	01/15/04	Soil-P	<5	2.5	274	279	70.28
Yes	GS-5-2.5	2.5	01/15/04	Soil-P	<5	2.5	274	279	70.28
Yes	BERM-1	0.5	09/21/97	Tar/Soil-P	<5	2.5	274	279	70.28
Yes	BERM-2	0.5	09/21/97	Tar/Soil-P	<5	2.5	274	279	70.28
Yes	BERM-3	0.5	09/21/97	Tar/Soil-P	<5	2.5	274	279	70.28
Yes	BERM-4	0.5	09/21/97	Tar/Soil-P	<5	2.5	274	279	70.28
Yes	BERM-5	0.5	09/21/97	Tar/Soil-O	<5	2.5	274	279	70.28
Yes	WL-1-1	0	2/24/2005	Soil-O	<5	2.5	274	279	70.28
Yes	WL-1-2	0	2/24/2005	Soil-O	<5	2.5	274	279	70.28
Yes	WL-2-1	0	2/24/2005	Soil-O	<5	2.5	274	279	70.28
Yes	WL-2-2	0	2/24/2005	Soil-O	<5	2.5	274	279	70.28
Yes	WL-3-1	0	2/24/2005	Soil-P	<5	2.5	274	279	70.28
Yes	WL-3-2	0	2/24/2005	Soil-P	<5	2.5	274	279	70.28
Yes	WL-4-1	0	2/24/2005	Soil-P	<5	2.5	274	279	70.28
Yes	WL-5-1	0	2/24/2005	Soil-P	<5	2.5	274	279	70.28
Yes	WL-5-2	0	2/24/2005	Soil-P	<5	2.5	274	279	70.28
Yes	WL-6-1	0	2/24/2005	Soil-P	<5	2.5	274	279	70.28
Yes	WL-6-2	0	2/24/2005	Soil-P	<5	2.5	274	279	70.28
No	GMW-16	25	04/23/97	Obispo	<5	2.5	274	279	70.28
No	GMW-16	45	04/23/97	Obispo	<5	2.5	274	279	70.28
No	Avila Beach #1	0	07/28/99	Obispo	<5	2.5	274	279	70.28
No	Avila Beach #2	0	07/28/99	Obispo	<5	2.5	274	279	70.28
No	OB-SO-CS-0.5	0.5	06/06/03	Soil-O	<5	2.5	274	279	70.28
No	OB-SO-PC-0.5'	0.5	06/06/03	Soil-O	<5	2.5	274	279	70.28
No	OB-SO-RR-0.5	0.5	06/06/03	Soil-O	<5	2.5	274	279	70.28
No	OB-SP-FH-0.5	0.5	06/06/03	Soil-P	<5	2.5	274	279	70.28
No	OB-SP-FSA-0.5	0.5	06/06/03	Soil-P	<5	2.5	274	279	70.28
No	OB-SP-FSL-2'	2	06/06/03	Soil-P	<5	2.5	274	279	70.28

Table A-3
All Samples Tested for Thallium
 Avila Tank Farm, Avila Beach, California
 (Concentrations in mg/kg)

On-site?	Sample Location	Depth (ft)	Date Sampled	Geologic Unit	Tl	Tl - 1/2 Det.	Abs. Freq.	Cum. Freq.	Probability
No	OB-WBO-CS-2'	2	06/06/03	Obispo	<5	2.5	274	279	70.28
No	OB-WBO-PC-2'	2	06/06/03	Obispo	<5	2.5	274	279	70.28
No	OB-WBO-RR-0.5	0.5	06/06/03	Obispo	<5	2.5	274	279	70.28
No	OB-WBP-FH-0.5	0.5	06/06/03	Pismo	<5	2.5	274	279	70.28
No	OB-WBP-FSA-0.5	0.5	06/06/03	Pismo	<5	2.5	274	279	70.28
No	OB-WBP-FSL-3'	3	06/06/03	Pismo	<5	2.5	274	279	70.28
Yes	B-194	50	07/19/99	Pismo	<5	2.5	274	279	70.28
Yes	B-212	21	03/02/01	Pismo	<5	2.5	274	279	70.28
Yes	S-18-0.5	0.5	06/05/03	Soil-P	<5	2.5	274	279	70.28
Yes	B-53	5	09/10/97	Soil-P	<5	2.5	274	279	70.28
Yes	B-140	5	09/23/97	Soil-O	<5	2.5	274	279	70.28
Yes	B-159	5	07/20/99	Soil-P	<5	2.5	274	279	70.28
Yes	B-179	5	07/21/99	Soil-P	<5	2.5	274	279	70.28
Yes	B-152	125	11/25/97	Pismo	<5	2.5	274	279	70.28
Yes	B-165	5	07/19/99	Soil-P	<5	2.5	274	279	70.28
Yes	B-184	90	07/22/99	Pismo	<5	2.5	274	279	70.28
Yes	B-198	10	02/26/01	Soil-P	<5	2.5	274	279	70.28
Yes	WL-4-2	0	2/24/2005	Soil-P	<5	2.5	274	279	70.28
No	Pirates Cove #1	0	07/28/99	Obispo	<5	2.5	274	279	70.28
Yes	B-158	1	07/21/99	Soil-P	<5	2.5	274	279	70.28
Yes	B-210	31	03/01/01	Pismo	<5	2.5	274	279	70.28
Yes	S-36-0.5	0.5	06/04/03	Pismo	<5	2.5	274	279	70.28
Yes	B-65	10	09/22/97	Soil-P	<5	2.5	274	279	70.28
Yes	B-178	5	07/20/99	Pismo	<5	2.5	274	279	70.28
Yes	B-191	10	07/27/99	Obispo	<5	2.5	274	279	70.28
Yes	B-202	15	05/29/02	Soil-O	<5	2.5	274	279	70.28
No	OB-SP-FSL-0.5	0.5	06/06/03	Soil-P	<5	2.5	274	279	70.28
Yes	B-40	5	09/09/97	Soil-P	<5	2.5	274	279	70.28
Yes	B-94	5	08/28/97	Soil-P	<5	2.5	274	279	70.28
Yes	S-39-0.5	0.5	06/05/03	Soil-P	<5	2.5	274	279	70.28
Yes	S-8-0.5	0.5	06/04/03	Soil-P	<5	2.5	274	279	70.28
Yes	S-18-2.5	2.5	06/05/03	Pismo	<5	2.5	274	279	70.28
Yes	S-9D-0.5	0.5	01/14/04	Soil-P	<5	2.5	274	279	70.28
Yes	B-50	5	09/25/97	Pismo	<5	2.5	274	279	70.28
Yes	B-104	5	09/17/97	Soil-P	<5	2.5	274	279	70.28
Yes	B-210	6	03/01/01	Pismo	<5	2.5	274	279	70.28
Yes	S-4-0.5	0.5	06/04/03	Soil-P	<5	2.5	274	279	70.28
Yes	B-54	5	09/25/97	Soil-P	<5	2.5	274	279	70.28
Yes	B-84	5	09/10/97	Pismo	<5	2.5	274	279	70.28
Yes	B-83	85	09/23/97	Pismo	<5	2.5	274	279	70.28
Yes	B-168	5	07/19/99	Soil-P	<5	2.5	274	279	70.28
Yes	B-198	30	02/26/01	Soil-P	<5	2.5	274	279	70.28
Yes	SP-5	15	03/04/01	Soil-P	<5	2.5	274	279	70.28
Yes	B-209	6	03/02/01	Pismo	<5	2.5	274	279	70.28
Yes	B-186-56	5	07/26/99	Soil-P	<5	2.5	274	279	70.28
Yes	B-210	15	03/01/01	Pismo	<5	2.5	274	279	70.28
Yes	BERM-6	0.5	06/05/03	Tar/Soil-P	<5	2.5	274	279	70.28
No	Pirates Cove #2	0	07/28/99	Obispo	<5	2.5	274	279	70.28
Yes	B-153	75	11/26/97	Pismo	<5	2.5	274	279	70.28
Yes	B-163	50	11/20/97	Pismo	<5	2.5	274	279	70.28
Yes	SP-5	55	03/04/01	Obispo	<5	2.5	274	279	70.28
Yes	B-175	5	07/19/99	Pismo	<5	2.5	274	279	70.28

Table A-3
All Samples Tested for Thallium
 Avila Tank Farm, Avila Beach, California
 (Concentrations in mg/kg)

On-site?	Sample Location	Depth (ft)	Date Sampled	Geologic Unit	Tl	Tl - 1/2 Det.	Abs. Freq.	Cum. Freq.	Probability
Yes	B-176	5	07/20/99	Pismo	<5	2.5	274	279	70.28
Yes	B-6	5	09/21/97	Pismo	<5	2.5	274	279	70.28
Yes	B-85	5	09/19/97	Pismo	<5	2.5	274	279	70.28
Yes	GS-4-2.5	2.5	01/15/04	Tar/Soil	<5	2.5	274	279	70.28
Yes	B-152	50	11/23/97	Pismo	<5	2.5	274	279	70.28
Yes	B-36	5	09/23/97	Obispo	<5	2.5	274	279	70.28
Yes	B-149	5	11/25/97	Soil-P	<5	2.5	274	279	70.28
Yes	B-212	6	03/02/01	Pismo	<5	2.5	274	279	70.28
Yes	S-9-0.5	0.5	06/05/03	Soil-P	<5	2.5	274	279	70.28
Yes	GS-5-2	2	01/15/04	Tar/Soil	<5	2.5	274	279	70.28
Yes	B-131	25	08/26/97	Obispo	<5	2.5	274	279	70.28
Yes	GS-2-1	1	01/15/04	Tar/Soil-P	<5	2.5	274	279	70.28
Yes	B-167-95	50	11/21/97	Obispo	<5	2.5	274	279	70.28
Yes	B-138	20	09/05/97	Pismo	<5	2.5	274	279	70.28
Yes	B-57-65	5	09/24/97	Soil-P	<5	2.5	274	279	70.28
Yes	B-76	25	09/03/97	Obispo	<5	2.5	274	279	70.28
Yes	GS-1-0	0	01/15/04	Tar/Soil-P	<5	2.5	274	279	70.28
Yes	B-76	15	09/03/97	Obispo	<5	2.5	274	279	70.28
Yes	B-160	5	07/20/99	Soil-P	<5	2.5	274	279	70.28
Yes	STR-5-1-0.5	0.5	4/25/2005	Tar/Soil-O	3.2	3.2	1	280	70.53
Yes	S-1A-01	1	7/16/2007	Af	<9.9	4.95	95	375	94.46
Yes	S-1A-03	3	7/16/2007	Af	<10	4.95	95	375	94.46
Yes	S-1B-01	1	7/16/2007	Af	<9.9	4.95	95	375	94.46
Yes	S-1B-04	4	7/16/2007	Af	<10	4.95	95	375	94.46
Yes	S-1C-01	1	7/16/2007	Af	<10	4.95	95	375	94.46
Yes	S-1C-04	4	7/16/2007	Af	<10	4.95	95	375	94.46
Yes	S-38A-01	1	7/17/2007	Soil-O	<10	4.95	95	375	94.46
Yes	S-38B-01	1	7/17/2007	Soil-O	<10	4.95	95	375	94.46
Yes	S-40A-03	3	7/16/2007	Pismo	<9.9	4.95	95	375	94.46
Yes	S-40B-01	1	7/16/2007	Soil-P	<10	4.95	95	375	94.46
Yes	S-40B-03	3	7/16/2007	Pismo	<9.9	4.95	95	375	94.46
Yes	S-47-01	1	7/11/2007	Soil-O	<9.9	4.95	95	375	94.46
Yes	S-47-05	5	7/11/2007	Soil-O	<9.9	4.95	95	375	94.46
Yes	S-48-01	1	7/10/2007	Soil-O	<10	4.95	95	375	94.46
Yes	S-48-05	5	7/10/2007	Obispo	<10	4.95	95	375	94.46
Yes	S-49-01	1	7/10/2007	Soil-O	<9.9	4.95	95	375	94.46
Yes	S-49-05	5	7/10/2007	Obispo	<10	4.95	95	375	94.46
Yes	SV-02-01	1	7/11/2007	Qal	<10	4.95	95	375	94.46
Yes	SV-02-05	5	7/11/2007	Qal	<10	4.95	95	375	94.46
Yes	SV-02-10	10	7/11/2007	Qal	<10	4.95	95	375	94.46
Yes	SV-03-01	1	7/11/2007	Qal	<10	4.95	95	375	94.46
Yes	SV-03-05	5	7/11/2007	Qal	<10	4.95	95	375	94.46
Yes	SV-03-10	10	7/11/2007	Qal	<10	4.95	95	375	94.46
Yes	SV-04-01	1	7/11/2007	Qcol	<10	4.95	95	375	94.46
Yes	SV-04-05	5	7/11/2007	Qcol	<9.9	4.95	95	375	94.46
Yes	SV-04-10	10	7/11/2007	Qcol	<9.9	4.95	95	375	94.46
Yes	SV-05-01	1	7/11/2007	Soil-O	<9.9	4.95	95	375	94.46
Yes	SV-05-10	10	7/11/2007	Obispo	<10	4.95	95	375	94.46
Yes	SV-08-01	1	7/12/2007	Soil-P	<10	4.95	95	375	94.46
Yes	SV-08-05	5	7/12/2007	Pismo	<10	4.95	95	375	94.46
Yes	SV-32-01	1	7/13/2007	Soil-O	<10	4.95	95	375	94.46
Yes	SV-32-05	5	7/13/2007	Soil-O	<10	4.95	95	375	94.46

Table A-3
All Samples Tested for Thallium
 Avila Tank Farm, Avila Beach, California
 (Concentrations in mg/kg)

On-site?	Sample Location	Depth (ft)	Date Sampled	Geologic Unit	Tl	Tl - 1/2 Det.	Abs. Freq.	Cum. Freq.	Probability
Yes	SV-35-01	1	7/12/2007	Soil-O	<9.9	4.95	95	375	94.46
Yes	SV-35-05	5	7/12/2007	Soil-O	<10	4.95	95	375	94.46
Yes	SV-36-01	1	7/10/2007	Soil-O	<10	4.95	95	375	94.46
Yes	SV-36-05	5	7/10/2007	Soil-O	<10	4.95	95	375	94.46
Yes	SV-37-01	1	7/12/2007	Soil-O	<10	4.95	95	375	94.46
Yes	SV-37-05	5	7/12/2007	Soil-O	<9.9	4.95	95	375	94.46
Yes	SV-38-01	1	7/12/2007	Soil-P	<9.9	4.95	95	375	94.46
Yes	SV-38-05	5	7/12/2007	Obispo	<9.9	4.95	95	375	94.46
Yes	SV-41-01	1	7/13/2007	Soil-P	<9.9	4.95	95	375	94.46
Yes	SV-41-05	5	7/13/2007	Pismo	<9.9	4.95	95	375	94.46
Yes	SV-45-01	1	7/12/2007	Soil-P	<10	4.95	95	375	94.46
Yes	SV-50-01	1	7/12/2007	Soil-P	<10	4.95	95	375	94.46
Yes	SV-50-05	5	7/12/2007	Pismo	<9.9	4.95	95	375	94.46
Yes	SV-51-01	1	7/9/2007	Soil-P	<9.9	4.95	95	375	94.46
Yes	SV-51-05	5	7/9/2007	Pismo	<10	4.95	95	375	94.46
Yes	SV-52-01	1	7/9/2007	Soil-P	<10	4.95	95	375	94.46
Yes	SV-52-05	5	7/9/2007	Pismo	<10	4.95	95	375	94.46
Yes	SV-53-01	1	7/9/2007	Soil-P	<10	4.95	95	375	94.46
Yes	SV-53-05	5	7/9/2007	Pismo	<10	4.95	95	375	94.46
Yes	SV-54-02	2	7/9/2007	Soil-P	<10	4.95	95	375	94.46
Yes	SV-54-05	5	7/9/2007	Pismo	<10	4.95	95	375	94.46
Yes	SV-55-01	1	7/10/2007	Soil-O	<10	4.95	95	375	94.46
Yes	SV-55-05	5	7/10/2007	Obispo	<10	4.95	95	375	94.46
Yes	SV-55-10	10	7/10/2007	Obispo	<10	4.95	95	375	94.46
Yes	SV-56-01	1	7/10/2007	Soil-O	<10	4.95	95	375	94.46
Yes	SV-56-10	10	7/10/2007	Obispo	<10	4.95	95	375	94.46
Yes	SV-57-01	1	7/12/2007	Soil-P	<10	4.95	95	375	94.46
Yes	SV-57-05	5	7/12/2007	Pismo	<9.9	4.95	95	375	94.46
Yes	SV-58-02	2	7/10/2007	Soil-P	<9.9	4.95	95	375	94.46
Yes	SV-58-05	5	7/10/2007	Soil-P	<10	4.95	95	375	94.46
Yes	SV-60-01	1	7/10/2007	Soil-P	<10	4.95	95	375	94.46
Yes	SV-60-05	5	7/10/2007	Soil-P	<9.9	4.95	95	375	94.46
Yes	SV-61-01	1	7/10/2007	Soil-P	<10	4.95	95	375	94.46
Yes	SV-61-05	5	7/10/2007	Soil-P	<10	4.95	95	375	94.46
Yes	SV-62-01	1	7/10/2007	Soil-P	<9.9	4.95	95	375	94.46
Yes	SV-62-05	5	7/10/2007	Soil-P	<9.9	4.95	95	375	94.46
Yes	SV-63-05	5	7/9/2007	Soil-P	<9.9	4.95	95	375	94.46
Yes	STR-14-1-0.5	0.5	4/26/2005	Tar/Soil-O	<5	4.95	95	375	94.46
Yes	STR-9-1-0.5	0.5	4/26/2005	Tar/Soil-P	<5	4.95	95	375	94.46
Yes	S-38A-03	3	7/17/2007	Soil-O	<20	4.95	95	375	94.46
Yes	S-38B-03	3	7/17/2007	Soil-O	<20	4.95	95	375	94.46
Yes	S-47-10	10	7/11/2007	Obispo	<20	4.95	95	375	94.46
Yes	SV-05-05	5	7/11/2007	Obispo	<20	4.95	95	375	94.46
Yes	SV-06-10	10	7/12/2007	Obispo	<20	4.95	95	375	94.46
Yes	SV-32-10	10	7/13/2007	Obispo	<20	4.95	95	375	94.46
Yes	STR-4-1-1.0	1	4/26/2005	Tar/Soil-O	<5	4.95	95	375	94.46
Yes	SV-45-05	5	7/12/2007	Pismo	<9.9	4.95	95	375	94.46
Yes	S-49-10	10	7/10/2007	Obispo	<10	4.95	95	375	94.46
Yes	S-40A-01	1	7/16/2007	Soil-P	<10	4.95	95	375	94.46
Yes	SV-06-01	1	7/12/2007	Soil-O	<10	4.95	95	375	94.46
Yes	SV-06-05	5	7/12/2007	Obispo	<10	4.95	95	375	94.46
Yes	SV-56-05	5	7/10/2007	Obispo	<10	4.95	95	375	94.46

Table A-3
All Samples Tested for Thallium
 Avila Tank Farm, Avila Beach, California
 (Concentrations in mg/kg)

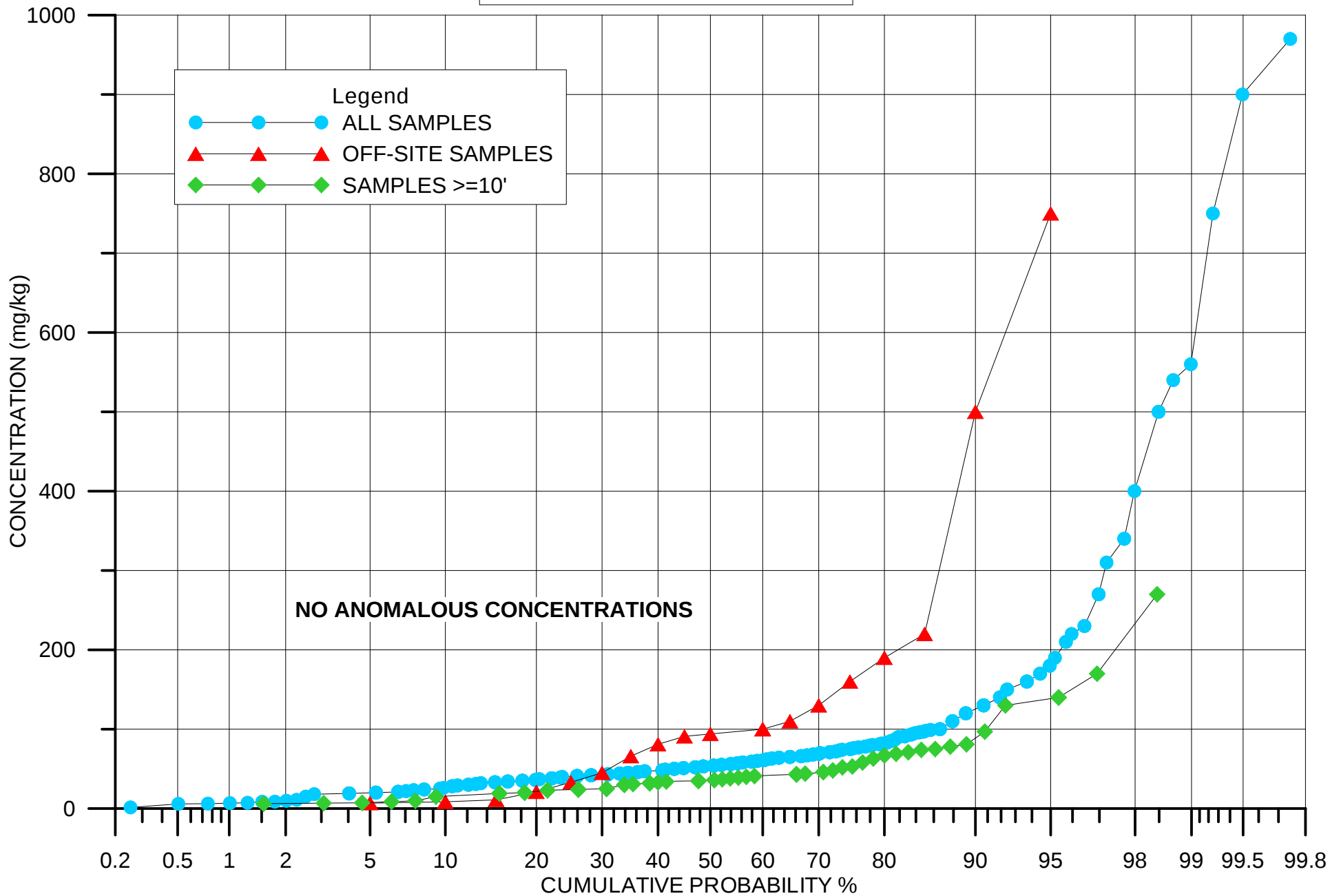
On-site?	Sample Location	Depth (ft)	Date Sampled	Geologic Unit	Tl	Tl - 1/2 Det.	Abs. Freq.	Cum. Freq.	Probability
Yes	S-50-01	1	7/11/2007	Soil-O	<10	4.95	95	375	94.46
Yes	STR-7-1-0.5	0.5	4/25/2005	Tar/Soil-O	<9.3	4.95	95	375	94.46
Yes	S-48-10	10	7/10/2007	Obispo	<10	4.95	95	375	94.46
Yes	STR-8-1-0.5	0.5	4/26/2005	Tar/Soil-P	<25	4.95	95	375	94.46
Yes	STR-1-2-1.0	1	4/26/2005	Tar/Soil-O	<25	4.95	95	375	94.46
Yes	SV-63-01	1	7/9/2007	Soil-P	<10	4.95	95	375	94.46
Yes	S-50-10	10	7/11/2007	Obispo	<9.9	4.95	95	375	94.46
Yes	SV-01-01	1	7/11/2007	Soil-O	<10	4.95	95	375	94.46
Yes	S-50-05	5	7/11/2007	Soil-O	<10	4.95	95	375	94.46
Yes	SV-01-05	5	7/11/2007	Obispo	<10	4.95	95	375	94.46
Yes	SV-01-10	10	7/11/2007	Obispo	<10	4.95	95	375	94.46
Yes	S-25-0.5	0.5	06/05/03	Pismo	5.5	5.5	1	376	94.71
Yes	S-11-0.5	0.5	06/05/03	Soil-O	5.6	5.6	2	378	95.21
Yes	S-24-0.5	0.5	06/05/03	Soil-O	5.6	5.6	2	378	95.21
Yes	S-29-2.5	2.5	06/05/03	Soil-O	5.7	5.7	1	379	95.47
Yes	S-26-0.5	0.5	06/05/03	Soil-O	5.8	5.8	1	380	95.72
Yes	S-14-2.5	2.5	06/05/03	Soil-P	5.9	5.9	3	383	96.47
Yes	S-16-0.5	0.5	06/04/03	Soil-P	5.9	5.9	3	383	96.47
Yes	S-24-2.5	2.5	06/05/03	Soil-O	5.9	5.9	3	383	96.47
Yes	S-16-2.5	2.5	06/04/03	Soil-P	6	6	4	387	97.48
Yes	S-23-0.5	0.5	06/05/03	Soil-P	6	6	4	387	97.48
Yes	S-26-2.5	2.5	06/05/03	Soil-O	6	6	4	387	97.48
Yes	S-29-0.5	0.5	06/05/03	Soil-O	6	6	4	387	97.48
Yes	S-11-2.5	2.5	06/05/03	Soil-O	6.1	6.1	2	389	97.98
Yes	S-25-2.5	2.5	06/05/03	Soil-P	6.1	6.1	2	389	97.98
Yes	S-23-2.5	2.5	06/05/03	Pismo	6.2	6.2	1	390	98.24
Yes	S-37-0.5	0.5	06/04/03	Soil-O	6.4	6.4	1	391	98.49
Yes	S-14-0.5	0.5	06/05/03	Soil-O	6.6	6.6	1	392	98.74
Yes	S-37-2.5	2.5	06/04/03	Soil-O	6.7	6.7	1	393	98.99
Yes	S-42-2.5	2.5	06/04/03	Soil-O	6.8	6.8	1	394	99.24
Yes	S-42-0.5	0.5	06/04/03	Soil-O	10	10	1	395	99.50
Yes	STR-6-1-0.5	0.5	4/26/2005	Tar/Soil-O	16	16	1	396	99.75

Note: Values in "Red" font are one-half the Practical Quantitation Limit.

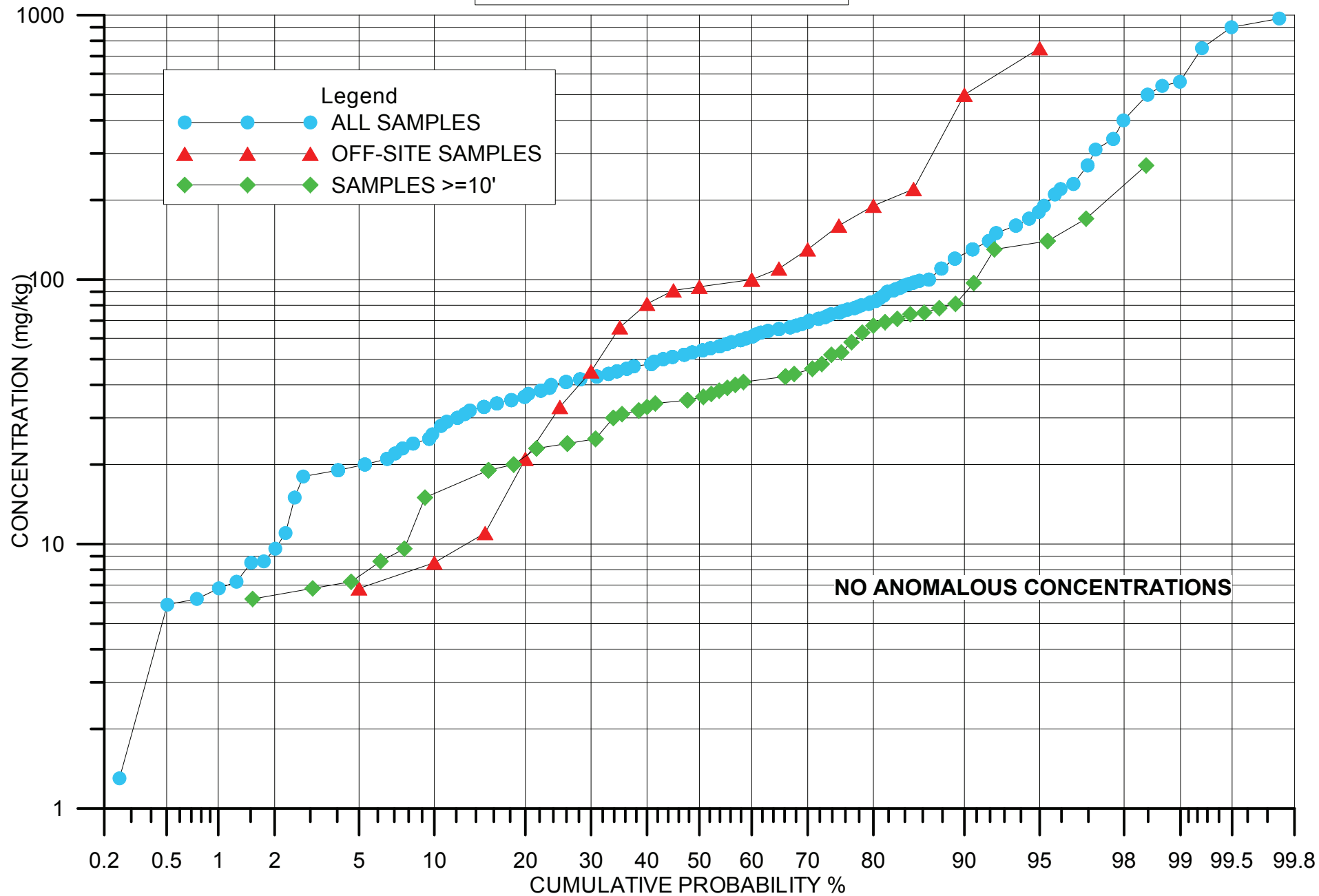
Attachment 2

Probability Plots

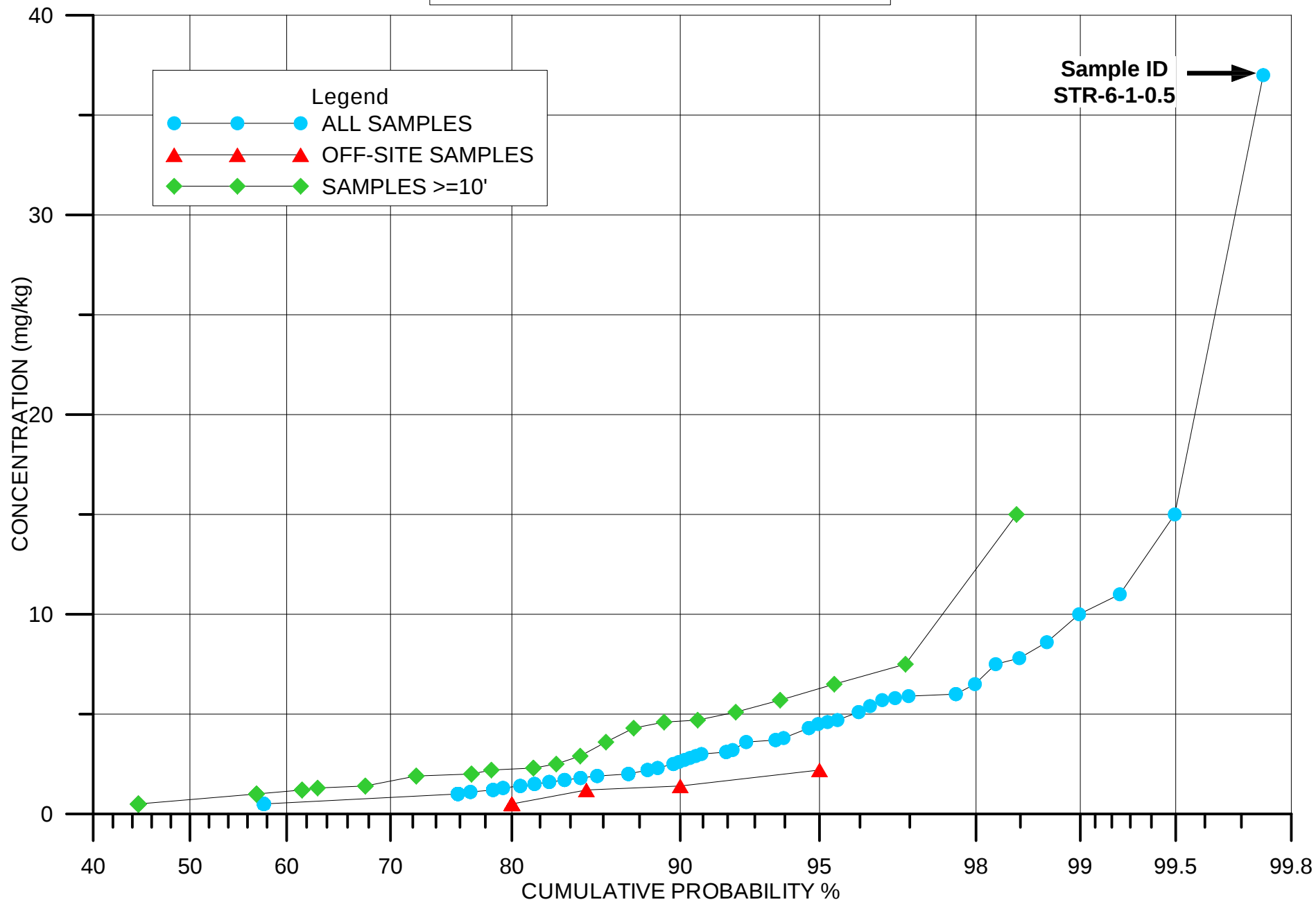
**BARIUM - ALL AND OFF-SITE
ARITHMETIC SCALE**



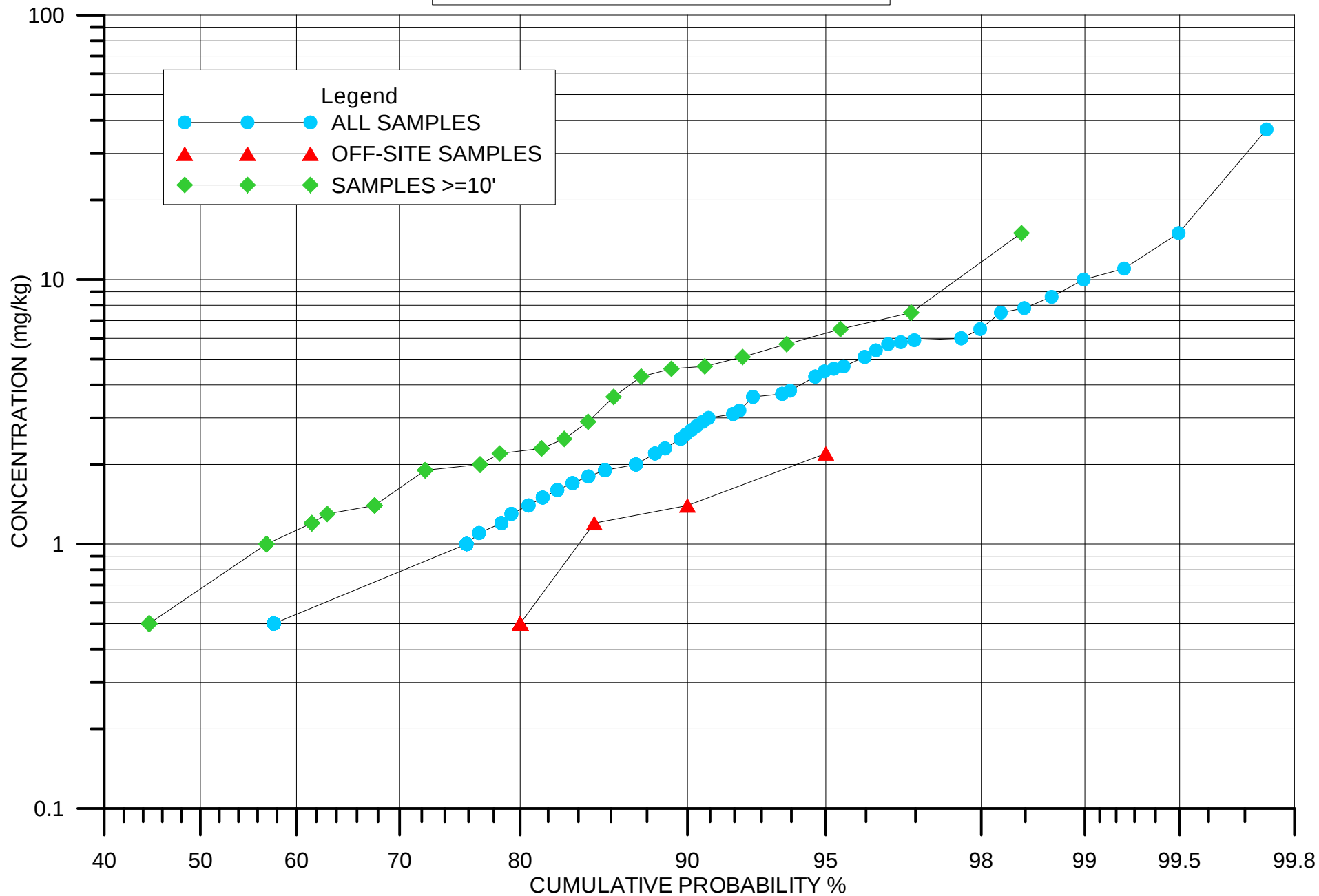
BARIUM - ALL AND OFF-SITE LOGARITHMIC SCALE



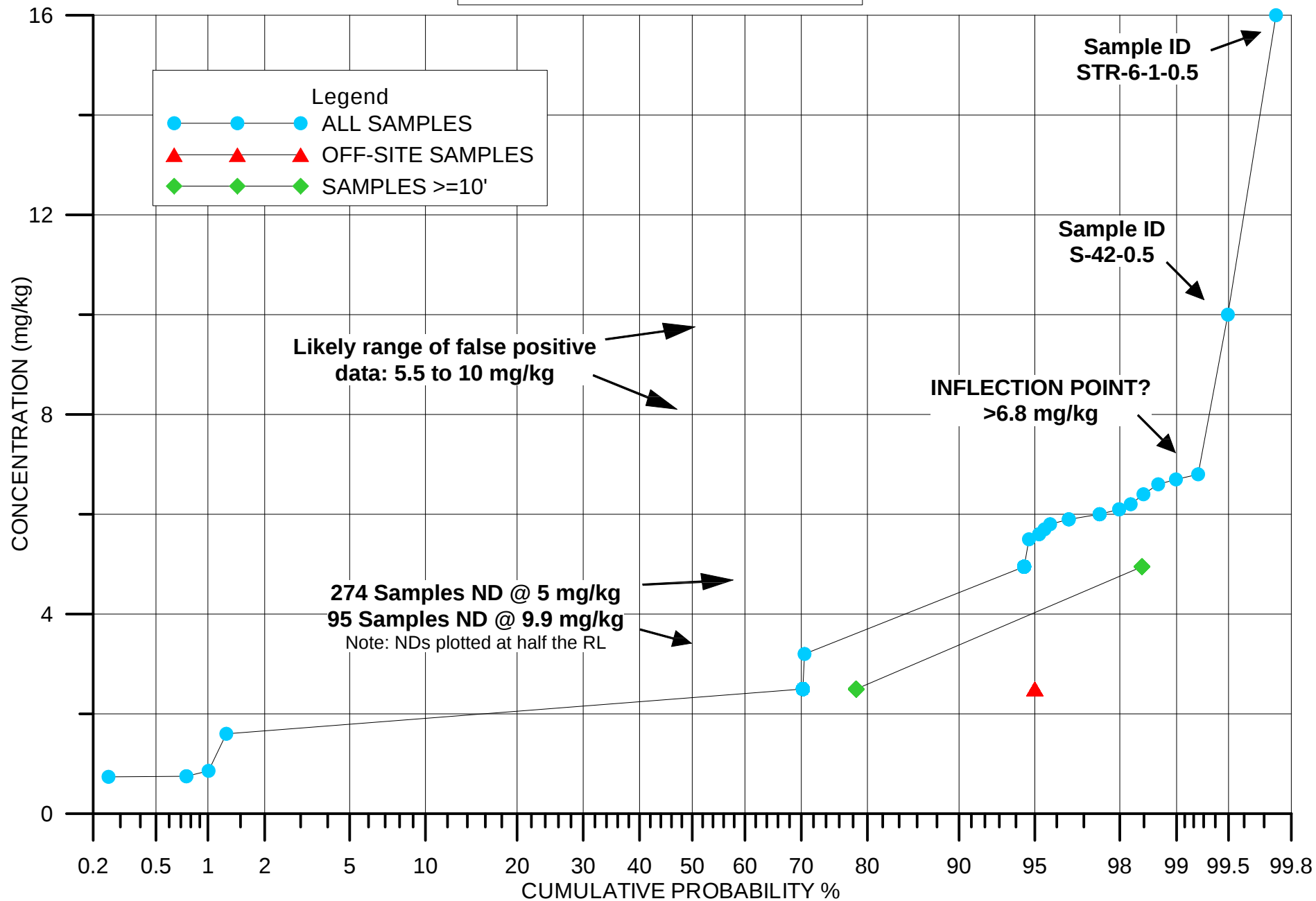
**MOLYBDENUM - ALL AND OFF-SITE
ARITHMETIC SCALE**



MOLYBDENUM - ALL AND OFF-SITE LOGARITHMIC SCALE



THALLIUM - ALL AND OFF-SITE ARITHMETIC SCALE



THALLIUM - ALL AND OFF-SITE LOGARITHMIC SCALE

