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Excavation and Sampling Plan
Supplement to Draft Final Closure Plan
Former American National Can Company Facility
Oakland, California
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Prepared for:

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QUALITY
♦
INTEGRITY
♦
CREATIVITY
♦
RESPONSIVENESS

RUST ENVIRONMENT & INFRASTRUCTURE

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1.0 ADDITIONAL SOIL SAMPLING

Based on the analytical results of soil samples collected in October, 1994 in the vicinity of the two RCRA storage units, an additional soil sampling and analysis program was recently performed. The purpose of the additional soil sampling program was to further qualify the results of the October, 1994 samples, and to provide the data necessary to delineate the extent and volume of material which would require remediation (excavation and removal).

Samples were collected continuously with either a limited access hydraulic hammer coring system drill rig equipped with stainless steel liners, or with a hand auger. A California Registered Geologist supervised the drilling program, examining and securing the soil samples for delivery to Anamatrix Laboratories of San Jose, California for analyses. Following is a summary of the results of the additional sampling performed in each storage area. Detailed laboratory analytical reports for all samples collected during the additional soil sampling program are included in Appendix A.

1.1 DESCRIPTION AND RESULTS OF ADDITIONAL SAMPLING

1.1.1 DRUM STORAGE AREA

An additional soil boring program was performed in the Drum Storage Area (DSA) to collect soil samples for the purpose of: qualifying the nature of the soil contamination previously identified in boring PB-3; defining the vertical and horizontal limit of total inorganic and organic lead surrounding the DSA; and for evaluating the nature of the elevated chromium level detected at a depth interval of 8.5 to 9.5 feet in previous boring PB-9 (204 ppm). Figure 1 provides a plan map showing locations of all soil borings and soil samples performed to date. Cross sections A-A', B-B', C-C' and D-D' on Figures 1 and 1a show the depths of these samples and the geologic units they were collected from.

One boring, PB-3d, was advanced parallel to, and one foot northwest of, previous boring PB-3. Three soil samples (PB3d.1, PB3d.2 and PB3d.3) were collected from this boring at coincident depths with soil samples collected from previous boring PB-3. These samples were analyzed for volatile organic compounds (VOCs) by EPA SW-846 Method 8260 with a library search for tentatively identified compounds (EPA Method 624), semi-volatile organic compounds (SVOCs) by EPA SW-846 Method 8270, total petroleum hydrocarbons as diesel (TPHd), as gasoline (TPHg), and TPH-Mineral Spirits by the California Department of Health Services (Cal DHS) Methods. Sample PB-3d.3 was also analyzed for hexavalent chromium by EPA Method 7196A.

Analytical results are presented in Table 1. The results were consistent with the samples collected from previous boring PB-3. Although concentrations varied, the compounds detected were the same. The substituted hydrocarbons revealed in the library search confirm that the organic contaminants are petroleum related. No compounds, including hexavalent chromium, were detected in the deep sample (PB3d.3) confirming that the vertical extent of impacted soil in this area has been defined.

Soil boring PB-9d was drilled adjacent to previous boring PB-9 to evaluate the previous concentration of total chromium. A soil sample (PB-9d.3) was collected at a depth of 8.5 to 9.5 feet below ground for the purpose of direct quantitative comparison of results with PB-9. The sample was analyzed for total chromium and hexavalent chromium. Total chromium was detected at a concentration of 90.6 mg/kg. Hexavalent chromium was not detected (Table 1).

Thirteen shallow soil borings were advanced around the perimeter of the DSA. Soil samples were collected from each perimeter boring at approximate depths of one foot ("a" designated samples) and two feet ("b" designated samples). Actual sampling depths are identified in the cross-sections presented in Figures 1 and 1a. All samples were analyzed for: total lead and total zinc by EPA Method 6010A; and for organic lead, TPH-D, and TPH-Mineral Spirits by Cal DHS methods. Soil samples collected from borings DSA HS9 through DSA HS13, along with samples collected from DSA SH3, DSA SH6, and DSA SH7 at deeper intervals ("c" and "d" designated) were also analyzed for hexavalent chromium.

Analytical results of perimeter samples collected in the DSA are presented in Table 2. Lead was detected at concentrations ranging from 5.1mg/kg (DSA HS1b) to 1700 mg/kg (DSA HS8a). Organic lead was detected in only one isolated sample (DSA SH7d) at a low concentration of 1.1 mg/kg. Total zinc concentrations ranged from 32.5 mg/kg (DSA HS13b) to 1570 mg/kg (DSA HS11a). TPH-Diesel was detected in DSA HS3a (56 mg/kg), DSA HS6a (56 mg/kg), DSA HS7a (11 mg/kg), DSA SH7d (12 mg/kg), and DSA HS8a (280 mg/kg). Hexavalent chromium or TPH-Mineral Spirits was not detected in any of the soil samples.

The perimeter soil samples were not analyzed for VOCs or SVOCs. The reason for this was that the cost to complete these tests on all the samples was not warranted. As an alternative, the samples were analyzed for TPHd and TPH as mineral spirits. This approach was selected to provide an economical screening tool to detect organic parameters and to determine the extent of soil to be excavated. Post-excavation samples (Section 4.0) will be analyzed for VOCs to confirm that these compounds do not exceed the clean-up levels.

1.1.2 SOLDER DROSS STORAGE AREA

An additional soil boring program was performed to collect soil samples for the purpose of further qualifying the nature of the elevated chromium concentrations in soil beneath the Solder Dross Storage Area (SDSA).

Three soil borings were advanced in the SDSA: PB-12d, PB-13d, and PB-SDSAb. The locations of these borings are shown on the plan map of the SDSA presented on Figure 2. A total of seven soil samples were collected from these three borings. Three soil samples each were collected from borings PB-12d and PB-13d from the same depths as samples collected from PB-12 and PB-13 during the previous investigation (October, 1994), to allow for a direct quantitative comparison to the past results. One sample was collected from PB-SDSAb at an approximate depth of 5 feet. Cross sections for the SDSA which are also included on Figure 2, show the depths and geologic units from which the samples from these borings were collected.

All samples were analyzed for total chromium by EPA Method 6010A and hexavalent chromium by EPA Method 7196A. Analytical results are presented in Table 3. Hexavalent chromium was not detected in any of the samples. Total chromium concentrations ranged from 3.5 mg/kg to 73.4 mg/kg and were generally consistent with the October, 1994 total chromium results. Based on these data, hexavalent chromium does not appear to be present in soil beneath the SDSA and does not appear to contribute to the total chromium detected in the area.

Eight shallow hand auger borings were advanced around the perimeter of the SDSA. One soil sample from each of these borings, designated SDSA-SH1 through SDSA-SH8, was collected. The locations of these soil samples are shown on the plan map and cross sections in Figure 2.

All of the eight shallow soil samples were analyzed for total lead, organic lead, hexavalent chromium, and total zinc. Samples SDSA-SH3 and SDSA-SH7 were also analyzed for total chromium. Analytical results for these samples are presented on Table 3. Lead was detected at concentrations ranging from 10.7 mg/kg (SDSA-SH3) to 511 mg/kg (SDSA-SH6) and zinc concentrations ranged from 65.2 mg/kg (SDSA-SH1) to 488 mg/kg (SDSA-SH6). With the exception of SDSA-SH1 (0.49 mg/kg), hexavalent chromium was not detected in any of the eight perimeter samples. Organic lead was not detected in any of the samples. Total chromium concentrations of 3.7 mg/kg and 40.9 mg/kg were detected in SDSA-SH3 and SDSA-SH7, respectively.

The eight perimeter soil samples from the SDSA were not analyzed for VOCs or for TPH. The reason for this was that these constituents were not detected in any of the previous (October, 1994) samples at levels that justified additional analysis.

1.2 CONCLUSION

The additional soil sampling outlined above was successful in qualifying the results of the previous sampling conducted in October, 1994. All of the data gathered to date, including the October, 1994 results and data obtained from this additional sampling, provides the information necessary to: develop clean-up levels for the two storage units; delineate the extent and volume of soil to be remediated (excavated and removed); and to develop an excavation plan for removing the concrete pads and underlying soils.

2.0 CLEAN-UP LEVELS

Clean-up levels have been developed for use in determining the extent to which the concrete pads and soil will be remediated. The clean-up levels proposed are the Clean Closure Performance Standards provided by DTSC in their letter to ANC dated February 11, 1995 (Appendix B). These are outlined as follows:

Analytes	Clean-Up Level
Total Lead (EPA Method 6010)	300 mg/Kg
Total Zinc (EPA Method 6010)	17,000 mg/Kg
Hexavalent Chromium (EPA Method 7196A)	PQL (≤5.0 mg/Kg)
TPH as Diesel (Cal DHS Method)	10 mg/Kg
TPH as Mineral Spirits (Cal DHS Method)	10 mg/Kg
Volatile Organic Compounds (EPA Method 8260 with Library Search)	1 mg/Kg for any individual compound
Semi-Volatile Organic Compounds (EPA Method 8270 with Library Search)*	1 mg/Kg for any individual compound

* *EPA SW-846 Method for Semi-Volatile organic compounds is 8270, not 8260 as specified by DTSC on their performance standard table (Appendix B).*

In addition to these Standards, one additional standard is proposed, based on the Cal DHS Method for organolead in CCR Title 22, Article 3, Appendix XI which specifies a method detection limit (MDL) of 0.5 ug/g (ppm).

Organolead (Cal DHS Method)	PQL (≤ 0.5 mg/Kg)

Clean closure may also be achieved where levels of lead or zinc exceed the clean-up levels according to the following if deed restrictions are used:

Total Inorganic lead:	300-850 mg/Kg Non-Residential Land Use >850 mg/Kg Non-Commercial Land Use
Total Zinc:	>17,000 mg/Kg Non-Residential Land Use

3.0 EXCAVATION PLAN

3.1 PRE-EXCAVATION INVESTIGATION

An investigation was performed in order to determine a baseline of waste to be excavated and to determine the lateral and vertical extent to which excavation would be required. The investigation included the collection of concrete chip samples from the containment structures and the collection of soil samples from beneath each of the structures. The investigation was comprised of an initial phase of sampling conducted in October, 1994 and an additional phase, conducted in January, 1995. The results of the initial phase of sampling was summarized in a report dated December 8, 1994. The results of the additional phase of sampling are summarized in Section 1.0.

3.2 LIMITS OF EXCAVATION

The sampling activities conducted to date, including the previous sampling of the concrete pads and the two phases of soil sampling, in conjunction with the clean-up levels presented in Section 2.0, have been adequate to assess the extent to which materials in the vicinity of the two storage areas will require excavation and removal. This section provides a description of the materials that require excavation.

3.2.1 DRUM STORAGE AREA

Several samples (PB-3.1, PB-4.1, PB-6.1 and PB-7.1)of the sandy fill material beneath the DSA concrete pad (baserock) contained STLC lead concentrations in excess of 5 ppm. Organic compounds including toluene, ethylbenzene, xylene, organolead and TPHd and TPH as mineral spirits were found to be elevated in the baserock beneath the DSA. The highest concentrations were detected in samples PB-3.1 and PB-3D.1. Based on these results, the entire layer of baserock beneath the DSA pad will require remediation (excavation and off-site disposal). Due to the concentrations of lead that has been detected, this material will be declared and managed as both RCRA and California Title 22 characteristic Hazardous Waste for Lead.

The concrete chip samples collected from the DSA pad in October, 1994 contained elevated levels of total lead, but tested below 5 ppm by TCLP and STLC methods. Even through the concrete slab did not test hazardous for lead, the under-side of the slab is in contact with the baserock, which will be declared hazardous for lead. Therefore, the DSA concrete slab will also be declared and managed as RCRA and California Title 22 Hazardous Waste for Lead. The analytical data gathered to date demonstrate that the low permeability of the black clay layer has limited the vertical extent of soil impact beneath the DSA. The high levels of lead and zinc detected in the baserock were not present in the black clay samples. Although the organic compounds were detected in samples PB-3.2 and PB-3d.2, they were not present in the respective samples collected below the clay layer in those borings (PB-3.3 and PB-3d.3).

The thirteen borings (DSA-HS1 through DSA-HS13) drilled around the perimeter of the DSA were adequate to determine the lateral extent of soil, beyond the footprint of the concrete pad, that exceeds applicable clean-up levels. Lead concentrations detected in some of the perimeter

boring samples (DSA-HS6, DSA-HS7, DSA-HS8 and DSA-HS9) exceeded the lead clean-up level of 300 ppm. The TPHd clean-up level of 10 ppm was exceeded in sample DSA-HS3a. The excavation of black clay will therefore extend beyond the footprint of the DSA concrete pad to remove this soil. The plan map and cross sections provided in Figures 1 and 1a depict the lateral and vertical extent of excavation proposed for the DSA. The proposed extent of excavation is based on the clean-up levels, presented in Section 2.0, that have been established to achieve "clean closure" at the storage facilities.

3.2.2 SOLDER DROSS STORAGE AREA

The SDSA concrete slab was tested during the October, 1994 sampling and analysis program. The levels of soluble inorganic lead in all concrete chip samples were much less than 5 ppm lead when tested by TTLC and STLC indicating that the SDSA concrete is not RCRA or California Title 22 Hazardous for Lead. It was inadvertently reported in the December 8, 1994 summary report of the October, 1994 sampling program that "organolead compounds were not detected in the SDSA concrete chip samples." These samples were not tested for organolead. To account for this, the SDSA concrete slab will be declared hazardous waste for lead. This material will be excavated, managed and disposed of with the concrete and baserock from the DSA. now !

Soil samples collected from the baserock and black clay layer directly beneath the SDSA concrete pad in October, 1994 did not exceed the clean-up levels established for clean closure. Therefore, this soil will not be excavated as part of remedial activities.

Excavation of soil in the SDSA will be limited to individual 5-foot diameter by 1.5 foot deep excavations around investigation samples SDSA-SH1 (hexavalent chromium detected at 0.49 ppm) and sample SDSA-SH6 (total lead detected at 511 ppm), where clean-up levels were exceeded.

3.3 SITE PREPARATION AND MOBILIZATION

3.3.1 UTILITIES

Prior to any work on the site, utility clearance will be performed. American National Can Company (ANC) personnel will be consulted on the location of underground utilities at the sites. A private locator will be sub-contracted to provide underground utility clearance, as needed. Documentation of utility clearance will be submitted.

Overhead power lines will also be located. If there is insufficient clearance (less than 20 feet) from overhead power lines for the operation of construction equipment, arrangements will be made with appropriate authorities to lock-out or re-route services, as appropriate, during the excavation activities.

3.3.2 ROLL-OFF BIN STORAGE AREA PREPARATION

Prior to commencement of excavations, an area will be prepared to store the roll off bins containing the soil and concrete excavated. The proposed location and approximate dimensions of the area is shown on the Site Plan, Figure 3. Each stockpile area will be contained by a berm constructed of clean imported or native soils which are free of angular or sub-angular materials and debris which may puncture or tear the liner. The stockpile area will be lined with 40-mil ultra-violet (UV) stabilized, nylon reinforced high density polyethylene (HDPE) liner, or similar. The liner will extend over the berm and be secured. The entire area will be enclosed within a locked chain link fence.

3.3.3 DECONTAMINATION PAD PREPARATION

Prior to commencement of excavations, a decontamination pad will be constructed for decontamination of equipment used during the remedial activities. The proposed location of the decontamination pad is shown on Figure 3. The decontamination pad will consist of a bermed 15x20-foot reinforced concrete pad. The pad will be sloped to a collection sump. Decontamination water will be pumped from the collection sump to a wastewater containment vessel located adjacent to the decontamination pad. The wastewater will be chemically analyzed and disposed at an appropriate facility. Decontamination procedures are discussed in the Draft Final Closure Plan

3.3.4 DUST CONTROL

The creation and dispersion of dust will be minimized throughout the soil remediation activities. At least one water truck will be on-site at all times for dust suppression. Work areas will be wetted down, as needed.

3.3.5 AIR MONITORING

Work area and personnel air monitoring for organic vapors will begin at this time in accordance with the requirements of the existing health and safety plan. Based on the results of the air monitoring and sampling during previous environmental investigations at the site, it is not likely that the concentrations of site contaminants in the breathing zone will pose a health hazard to workers during remedial activities. However, work area and personnel air monitoring will be conducted to quantify the concentrations of airborne contaminants.

Air monitoring will initially be focused in the breathing zone of the site workers. If, however, based on site readings, it appears that site contaminants are migrating out of the work area in concentrations that approach the breathing zone action levels, additional monitoring will be conducted, control measures such as covering portions of the excavation with plastic will be implemented and, if necessary, soil remediation activities halted.

3.3.6 SITE CONTROL

Work areas will be established to reduce the possibility of exposure to contaminants and transport of contaminants by personnel and equipment. This will be achieved by establishing exclusion, decontamination and staging/support areas. Access to the various work areas will be controlled and limited only to those personnel required to effectively perform the various soil remediation activities. These zones have previously been defined in the existing health and safety plan for the RCRA unit closures.

3.4 DESCRIPTION OF EXCAVATION

The volume of soil and concrete to be excavated is summarized as follows:

EXCAVATION AREA	ESTIMATED VOLUME (CUBIC YARDS)		
	SOIL	CONCRETE	TOTAL
Drum Storage Area	180	155	335
Solder Dross Storage Area	0	40	40
Totals	180	195	375

Prior to excavation, plastic sheeting will be laid adjacent to the excavation to protect the surrounding ground surface. Excavation equipment will be maintained a minimum distance of 5 feet from the edge of the excavation. When excavation work is not in progress the excavation will be protected by physical barriers and signs. All excavation will be performed under the supervision of the Project Field QA Supervisor.

As soil and debris is excavated, it will be directly loaded into roll-off style bins; which will be placed adjacent to the excavation. Each roll-off will be lined with minimum 20-mil polyethylene sheeting to make the containers water tight. As each container is filled it will be covered with a tarp to control dust emissions. Then the roll-offs will be moved to the, pre-constructed, Roll-off Bin Storage Area (Figure 3) for temporary storage. The excavated materials will be stored in roll-off containers until such time that the on-going CEQA process will permit off-site disposal.

All excavation work will be conducted in accordance with 29 CFR Part 126 Subpart P (Occupational Safety and Health Standards for Excavations) OSHA.

The integrity of the excavation sidewalls will be maintained, reducing the possibility for cave-ins by sloping the sidewalls of the excavation. The slope inclination will not exceed 1½ to 1 (horizontal to vertical) and is based on the geotechnical characteristics of the materials encountered at each site during the pre-excavation investigation.

Each excavation will be inspected and evaluated before beginning any work, and on a daily basis. The area surrounding the excavation and the excavation sidewalls will be visually inspected for

signs of distress which may result in cave-ins. Distress is evidenced by the development of fissures in the sidewalls or adjacent to the excavation; slumping or bulging of materials comprising the sidewalls; and, spalling and ravelling of materials from the sidewalls. If sidewall integrity appears compromised, corrective measures will be taken. Corrective measures will include flattening the excavation side slopes.

Entry into the excavation will be kept to the minimum. Compliance and discrete/random soil sampling required during the soil excavation will be performed by collecting samples from the excavation as appropriate. The only time personnel are anticipated to enter the excavation will be during confirmatory soil sample collection.

The excavations will generally be shallow, to an average depth of approximately 3-feet below the existing site grades. Extensive groundwater level monitoring performed in the vicinity of the storage units show that the water table is at a depth of a least 10-feet. Therefore, excavations will not encounter groundwater. There will be no need for excavation dewatering or management of groundwater.

3.5 BACKFILL AND RESTORATION

Each excavation will be backfilled with approved imported clean fill. Imported clean fill will be a product of a commercial soil source and will be free of chemical contamination. The material will be clean, well-graded soil classified by the USCS as SM, ML, CL, SC, MH or CH, or any mixture thereof. The imported fill will be capable of being compacted to a density similar to the natural surrounding soils. The backfill will be placed in lifts no greater than 8-inches in uncompacted thickness and compacted to at least 90 percent of the maximum density.

The backfill will be regraded to the original condition such that drainage at the site is not impeded by the finished backfill profile. At the drum storage area, the ground surface will be restored to its original condition. In the solder dross storage area, the final surface will blend in with the surrounding area.

4.0 POST-EXCAVATION SAMPLING AND ANALYSIS

4.1 SAMPLING OBJECTIVE

The objective of the post-excavation sampling and analysis program will be to ensure that the excavation of the concrete containment structures and underlying soils is sufficient and adequate to meet the agreed upon clean-up levels.

4.2 SELECTION OF NUMBER OF SAMPLES

One post excavation soil sample will be collected in the SDSA. The excavation in this area will be no more than 5 feet in diameter, and will encircle the previous investigation sample (SDSA SH-6) location.

A statistical analysis was performed in order to estimate the number of post excavation samples necessary to characterize the chemical composition of the black clay underlying the base rock beneath the DSA. The procedure detailed in Chapter Nine of "The Test Methods for Evaluating Solid Waste, Volume II, Field Manual Physical/Chemical Methods", for selecting the appropriate number of samples to be employed in the chemical characterization of a solid waste, was used to estimate the number of samples required to characterize the black clay layer. Specifically, the formula detailed below was utilized in this analysis:

$$N = \{t(0.2)\text{squared} \times s2\}/\{RT-X\}\text{squared}$$

Where: N= Number of samples to be collected

t(0.2)= One tailed Students t value (n-1 degrees of freedom) at a 20 percent significance level.

s2= Estimated population variance

RT= Regulatory threshold

X= Estimated population mean

The analytical results for lead and zinc from samples collected (October 1994) in the black clay layer beneath the DSA were used to provide an estimate of the mean concentration and variance of these two metal analytes detected in the black clay layer.

The analytical results from the following seven boring samples were used to provide and estimate of the mean and variance of the metal concentrations in the black clay layering the DSA.

PB-3: 4.5'-5.5'	PB-7: 3.5'-4.5'
PB-4: 4.5'-5.5'	PB-8: 4.0'-5.0'
PB-5: 4.5'-5.5'	PB-9: 4.0'-5.0'
PB-6: 3.5'-4.5'	

The Regulatory Threshold was considered to be the average concentration of each metal detected in the black clay layer in the two background boring samples (samples PB1.2 and PB2.2). The metal results from the two borings were averaged and this average was considered the Regulatory Threshold value.

Table 4 presents the statistical information for each metal analyte in the DSA. The last column in each table lists the recommended number of samples to be collected to adequately characterize the chemical composition of the black clay layer. The analysis was performed for each of the metals independently.

The analysis presented in Table 4 indicates that a greater number of samples would be required to adequately characterize lead concentrations in the black clay layer beneath the DSA. The analysis indicates that twenty one samples be collected to effectively evaluate the concentration of lead and 13 samples be collected to adequately characterize the concentration of zinc with respect to the Regulatory Threshold.

All samples collected would be analyzed for all parameters of concern, which are outlined in detail in the following sections. This number of samples will be sufficient to adequately determine the effectiveness of the excavation of soil in achieving the clean-up levels.

4.3 SAMPLE LOCATIONS AND TYPE

Post excavation samples will be collected from the excavated surface of the black clay along the floor of the excavation. All post-excavation samples collected from the gridpoints will be grab type samples, collected from a 6 to 12" depth below the excavation surface.

As discussed above, one post excavation soil sample will be collected in the SDSA. This sample location is shown on Figure 4.

Twenty one grab post-excavation samples will be collected in the DSA, as determined in Section 4.2 above. Twenty grab type samples will be collected along the floor of the excavation from locations according to a systematic random (grid) technique developed from the statistical analysis (presented above) and one additional grab sample will be collected at the base of the isolated deep area of excavation planned in the vicinity of boring PB-3.

One composite soil sample will be collected from four locations around the walls and at the vertical midpoint elevation of the deeper area of excavation. Figure 5 shows the locations of post-excavation samples that will be collected in the DSA.

The perimeter walls of the DSA excavation are expected to be no more than 3-feet in height, as shown by the "proposed limits of excavation" on the cross sections on Figures 1 and 1a. Considering this, and considering that shallow perimeter soil samples (SH and HS series samples) were collected just outside the proposed exent of excavation, it will not be necessary to collect post-excavation samples from the outer perimeter wall of the excavation.

4.4 ANALYTICAL METHODS

All post-excavation samples collected in both areas will be analyzed for volatile organic compounds by EPA SW-846 Method 8260 with a library search for tentatively identified compounds (TICs), semi-volatile organic compounds by EPA SW-846 Method 8270 with TICs, TPH as Diesel (Cal DHS Method), TPH as Mineral Spirits (Cal DHS Method), and Organic-lead (Cal DHS Method). The inorganic analytes to be tested for will include: total lead and total zinc by EPA Method 6010 and hexavalent chromium by EPA Method 7196A.

4.5 ADDITIONAL EXCAVATION REQUIREMENTS

The excavations in both the DSA and SDSA will be left open until laboratory analytical results are received and reviewed by ANC and DTSC. Additional excavation will be performed in the vicinity of any sample that exhibits concentrations that exceed clean up levels.

Additional excavation will be required in the immediate area of any sample that exceeds any of these levels. Soil will be excavated around each sample point that exceeds the clean up levels to a depth of 1.5 feet. Laterally, soil will be excavated in all directions, a distance of one-half way between the last sample that exceeds the clean up level and the first sample that does not exceed the clean up level.

All additional soil that is excavated will be stored in roll-off dumpsters for subsequent off-site disposal. Supplemental post excavation samples will be collected along the floor of any additional excavation, at the same grid pattern location of previous samples. Supplemental samples will only be analyzed for the parameters that exceeded the clean up levels.

TABLES

TABLE 1

American National Can Company

Former Oakland, California Facility
Closure of RCRA Storage Units

Summary of Laboratory Analytical Data
Drum Storage Area

Sample ID	PB - 3d.1	PB - 3d.2	PB - 3d.3	PB - 9d.3
Analysis				
TotalPetroleum Hydrocarbons				
TPH - Diesel	**530**	**390**	<10	--
TPH - Gasoline	<50	<50	<0.50	--
TPH - Mineral Spirits	**490**	**250**	<0.50	--
Semi Volatile Organic Compounds				
(EPA Method 8270)				
Napthalene	**4.1**	**0.76**	<0.33	--
Volatile Organic Compounds				
(EPA Method 8260)				
Ethylbenzene	**0.8**	**0.15**	<0.003	--
Toluene	**0.49**	<0.050	<0.003	--
Total Xylenes	**13**	**1.7**	<0.003	--
Tentatively Identified Compounds				
(EPA Method 624)				
Trimethyl Benzene Isomer (1)	**36**	**4.6**	<0.05	--
Trimethyl Benzene Isomer (2)	**12.0**	**3.9**	<0.05	--
Napthalene	**17.0**	**2.4**	<0.05	--
Tetramethyl Benzene Isomer (1)	<10	**2.2**	<0.05	--
Ethylmethyl Benzene Isomer (1)	<10	**1.6**	<0.05	--
Substituted Indene Derivative	<10	**1.2**	<0.05	--
Methyl Isopropyl Benzene Isomer	<10	**1.1**	<0.05	--
Ethylmethyl Benzene Isomer (2)	<10	**1.0**	<0.05	--
Tetramethyl Benzene Isomer (2)	<10	**1.0**	<0.05	--
Inorganics				
Total Chromium	--	--	--	**90.6**
Hexavalent Chromium	--	--	<0.10	<0.10

NOTES: All data results expressed in mg/kg (ppm).
-- : The analysis was not performed.

TABLE 2

American National Can Company

Former Oakland, California Facility
Closure of RCRA Storage Units

Summary of Laboratory Analytical Data
Drum Storage Area

Sample ID	Total Lead	Organic Lead	Hexavalent Chromium	Total Zinc	TPH - Diesel	TPH - Mineral Spirits
DSA HS1a	28.7	<0.75	- -	44.1	<10	<0.5
DSA HS1b	5.1	<0.75	- -	36.5	<10	<0.5
DSA HS2a	7.9	<0.75	- -	35.6	<10	<0.5
DSA HS2b	7.5	<0.75	- -	35.5	<10	<0.5
DSA HS3a	7.0	<0.75	- -	1170	56	<0.5
DSA HS3b	111	<0.75	- -	39.2	<10	<0.5
DSA SH3c	9.6	<0.75	<0.10	38.1	<10	<0.5
DSA SH3d	11.9	<0.75	<0.10	39.6	<10	<0.5
DSA HS4a	9.5	<0.75	- -	40.1	<10	<0.5
DSA HS4b	20.1	<0.75	- -	50.4	<10	<0.5
DSA HS5a	9.0	<0.75	- -	55.4	<10	<0.5
DSA HS5b	5.5	<0.75	- -	41.7	<10	<0.5
DSA HS6a	152	<0.75	- -	61.6	56	<0.5
DSA HS6b	565	<0.75	- -	157	<10	<0.5
DSA SH6c	441	<0.75	<0.10	169	<10	<0.5
DSA SH6d	78.4	<0.75	<0.10	127	<10	<0.5

NOTES: All results expressed in mg/kg (ppm).
- - : The analysis was not performed.

American National Can Company

Former Oakland, California Facility
Closure of RCRA Storage Units

Summary of Laboratory Analytical Data
Drum Storage Area

Sample ID	Total Lead	Organic Lead	Hexavalent Chromium	Total Zinc	TPH - Diesel	TPH - Mineral Spirits
DSA HS7a	643	<0.75	- -	198	11	<0.5
DSA HS7b	475	<0.75	- -	166	<10	<0.5
DSA SH7c	9.2	<0.75	<0.10	35.0	<10	<0.5
DSA SH7d	63.4	1.1	<0.10	63.8	12	<0.5
DSA HS8a	1700	<0.75	- -	620	280	<0.5
DSA HS8b	39.9	<0.75	- -	260	<10	<0.5
DSA HS9a	887	<0.75	<1.0	103	<10	<0.5
DSA HS9b	15.7	<0.75	<0.10	69.3	<10	<0.5
DSA HS10a	10.5	<0.75	<0.10	189	<10	<0.5
DSA HS10b	7.2	<0.75	<0.10	118	<10	<0.5
DSA HS11a	59.6	<0.75	<0.10	1570	<10	<0.5
DSA HS11b	137	<0.75	<0.10	1310	<10	<0.5
DSA HS12a	238	<0.75	<0.10	71.3	<10	<0.5
DSA HS12b	105	<0.75	<0.10	66.7	<10	<0.5
DSA HS13a	85.8	<0.75	<0.10	90.5	<10	<0.5
DSA HS13b	9.9	<0.75	<0.10	32.5	<10	<0.5

NOTES: All results expressed in mg/kg (ppm).
- - : The analysis was not performed.

TABLE 3

American National Can Company

Former Oakland, California Facility
Closure of RCRA Storage Units

Summary of Laboratory Analytical Data
Solder Dross Storage Area

Sample ID	Total Lead	Organic Lead	Total Chromium	Hexavalent Chromium	Total Zinc
PB 12d.1	--	--	3.5	<0.10	--
PB 12d.2	--	--	73.4	<0.10	--
PB 12d.3	--	--	71.2	<0.10	--
PB 13d.1	--	--	3.7	<0.10	--
PB 13d.2	--	--	63.9	<0.10	--
PB 13d.3	--	--	72.9	<0.10	--
PBSDSAb.1	--	--	53.5	<0.10	--
SDSA-SH1	40.5	<0.75	--	0.49	65.2
SDSA-SH2	23.0	<0.75	--	<0.10	298
SDSA-SH3	10.7	<0.75	3.7	<0.10	92.8
SDSA-SH4	76.2	<0.75	--	<0.10	484
SDSA-SH5	32.0	<0.75	--	<0.10	66.3
SDSA-SH6	511	<0.75	--	<0.10	488
SDSA-SH7	16.0	<0.75	40.9	<0.10	152
SDSA-SH8	162	<0.75	--	<0.10	129

NOTES: All data results expressed in mg/kg (ppm).
-- : The analysis was not performed.

TABLE 4

American National Can Company

Former Oakland, California Facility
Closure of RCRA Storage Units

Calculation of Number of Post Excavation Samples

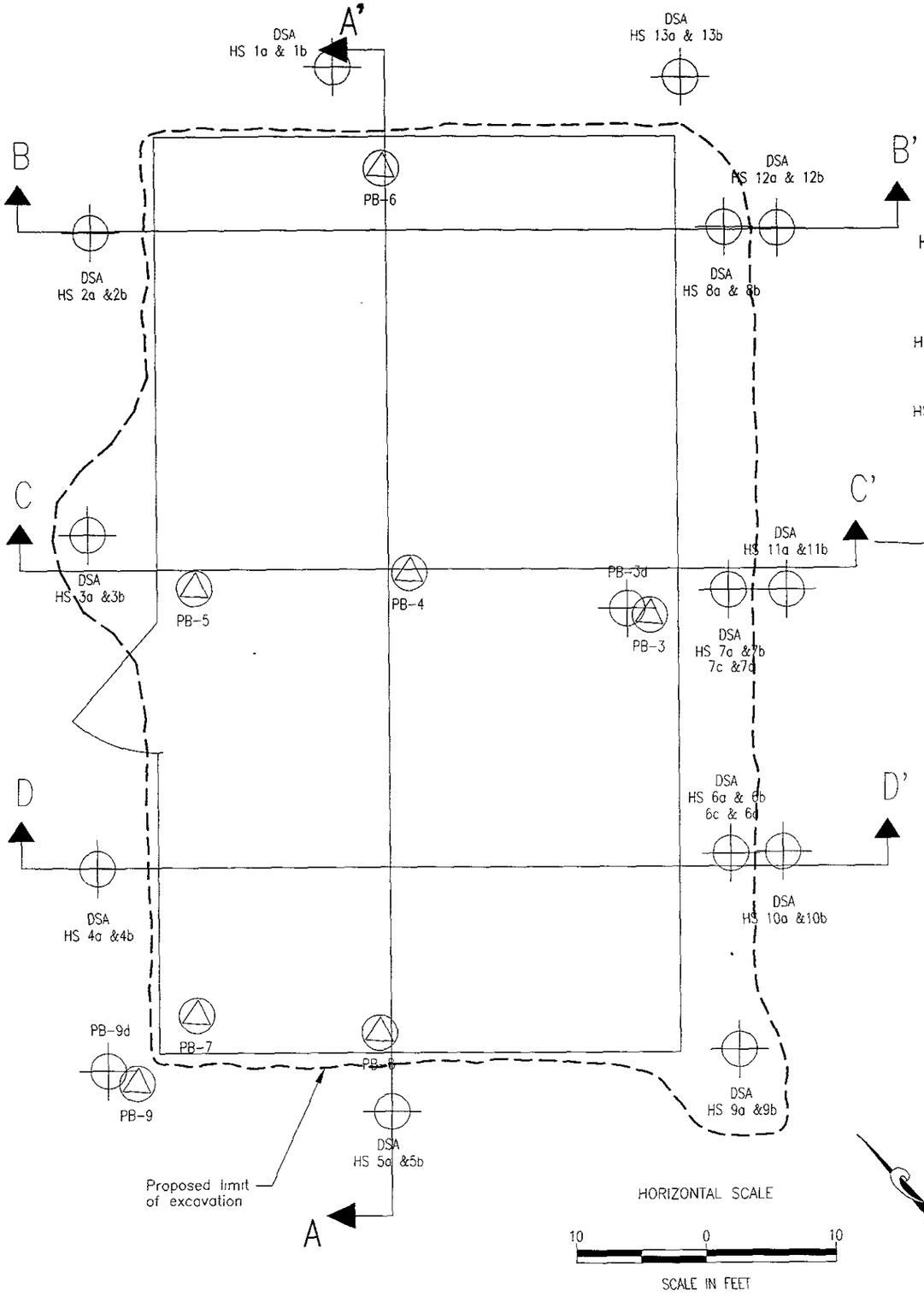
Drum Storage Area

PARAMETER	MEAN	VARIANCE	REGULATORY LEVEL	STUDENTS t (0.2) SQUARED	RECOMMENDED NUMBER OF SAMPLES
Lead	10.514	14.775	9.3	2.0736	20.7881145
Zinc	125.543	50667.896	35.15	2.0736	12.85843916

Recommended number of samples to be collected is 21

Note
1. Regulatory level is the mean concentration of the compound from the two background boring samples
2 . The Student's t value is based on a 0.20 one tailed test significance level
3. Regulatory level is the average concentration of the analyte detected in the two samples of black clay collected from the background soil borings.

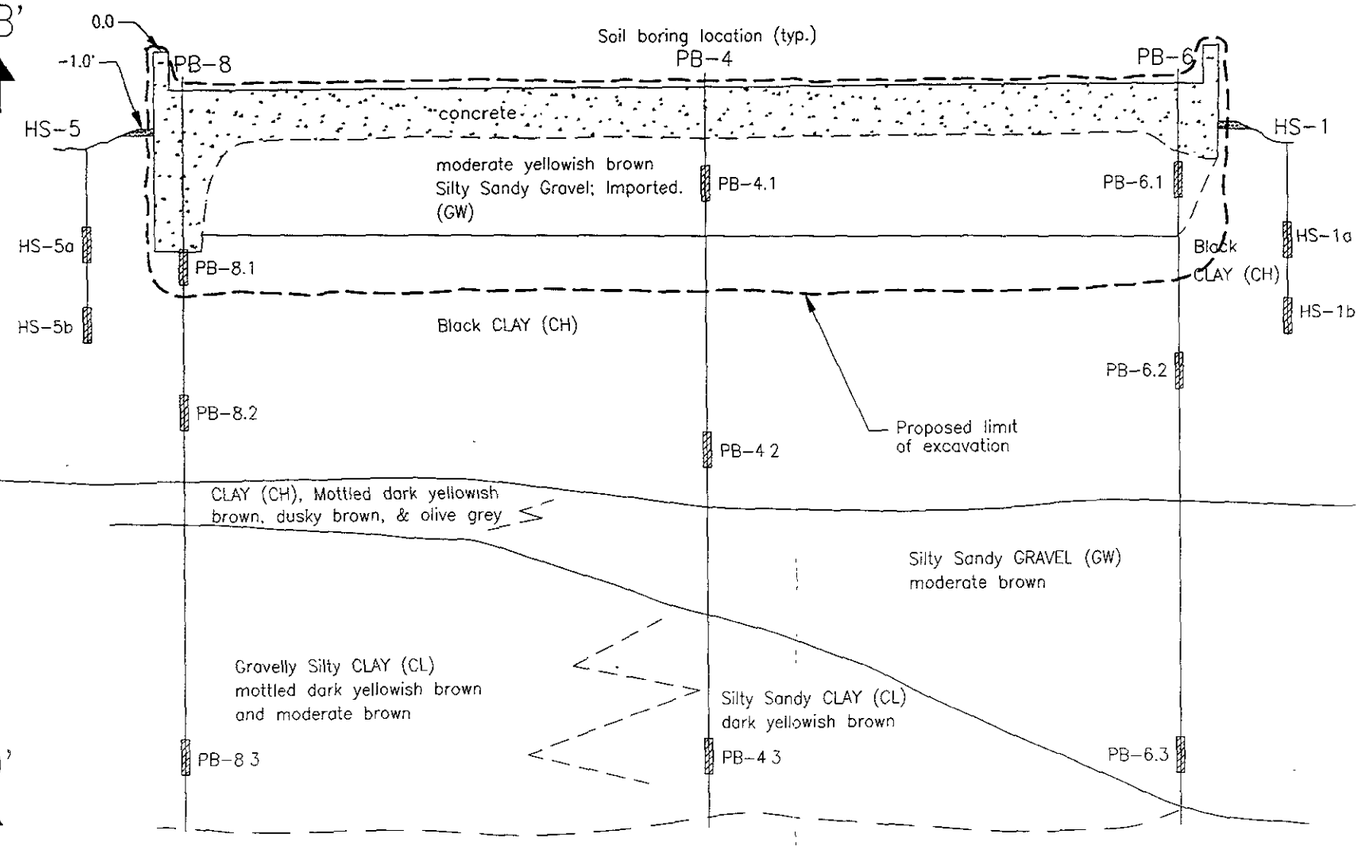
FIGURES



SECTION A –A'

DRUM STORAGE AREA

VERTICAL SCALE: 1" = 2'



LEGEND

PB-6 — Soil boring location

DSA HS 2a &2b — Additional soil boring location

Proposed Limit of Excavation, Based on Clean–up Levels

A A' — Cross section location

PB-4.2 — Soil Sample Location

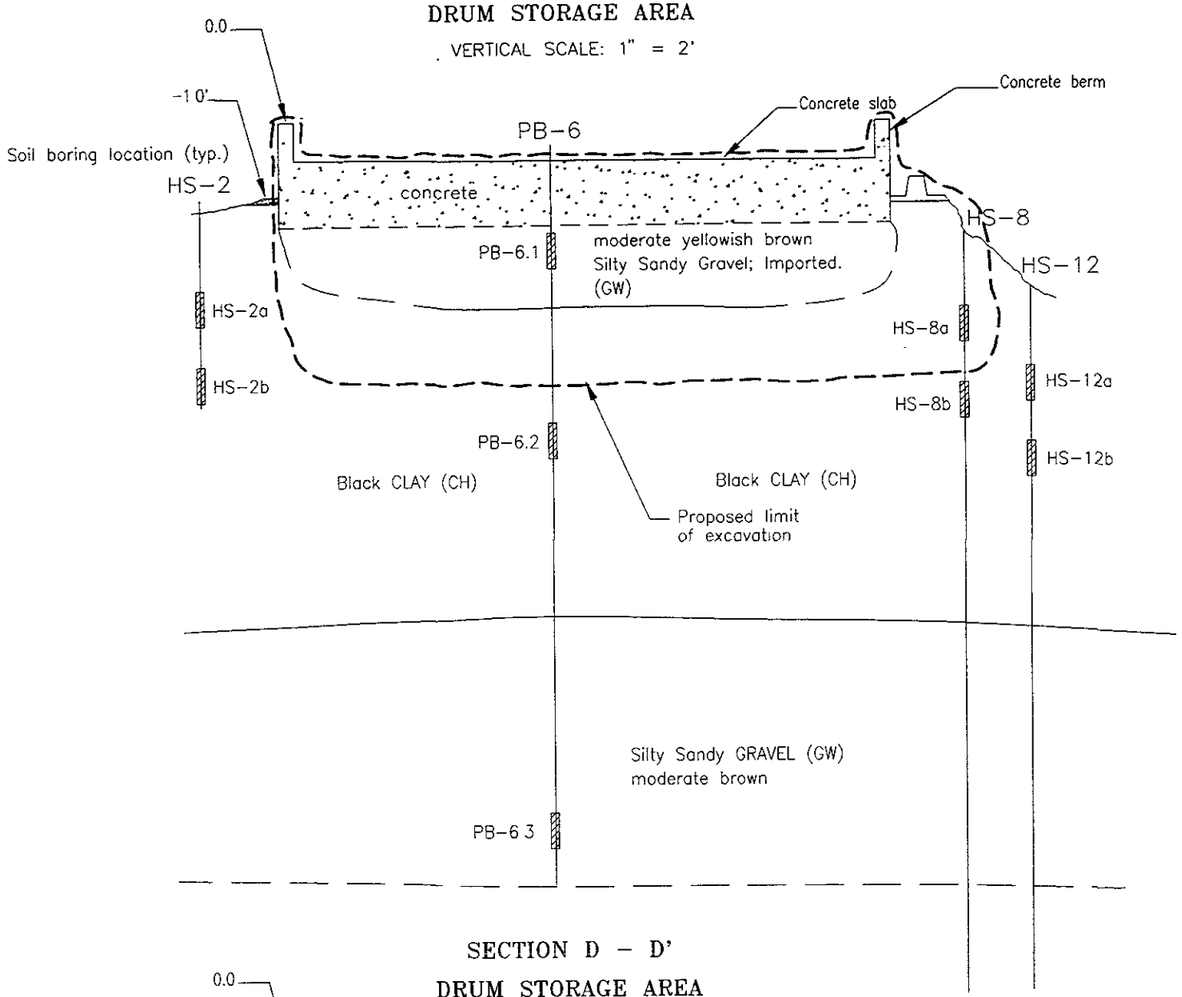
PROJECT #:	35195.108
ORIG. DATE.	JANUARY, 1995
PREP. BY:	CD/RR
REV. BY:	RICHARD BURZINSKI
SCALE:	1" = 10'
FILE NAME:	C:\PRO*\35195A DWG

RUST ENVIRONMENT & INFRASTRUCTURE
SAN JOSE, CALIFORNIA

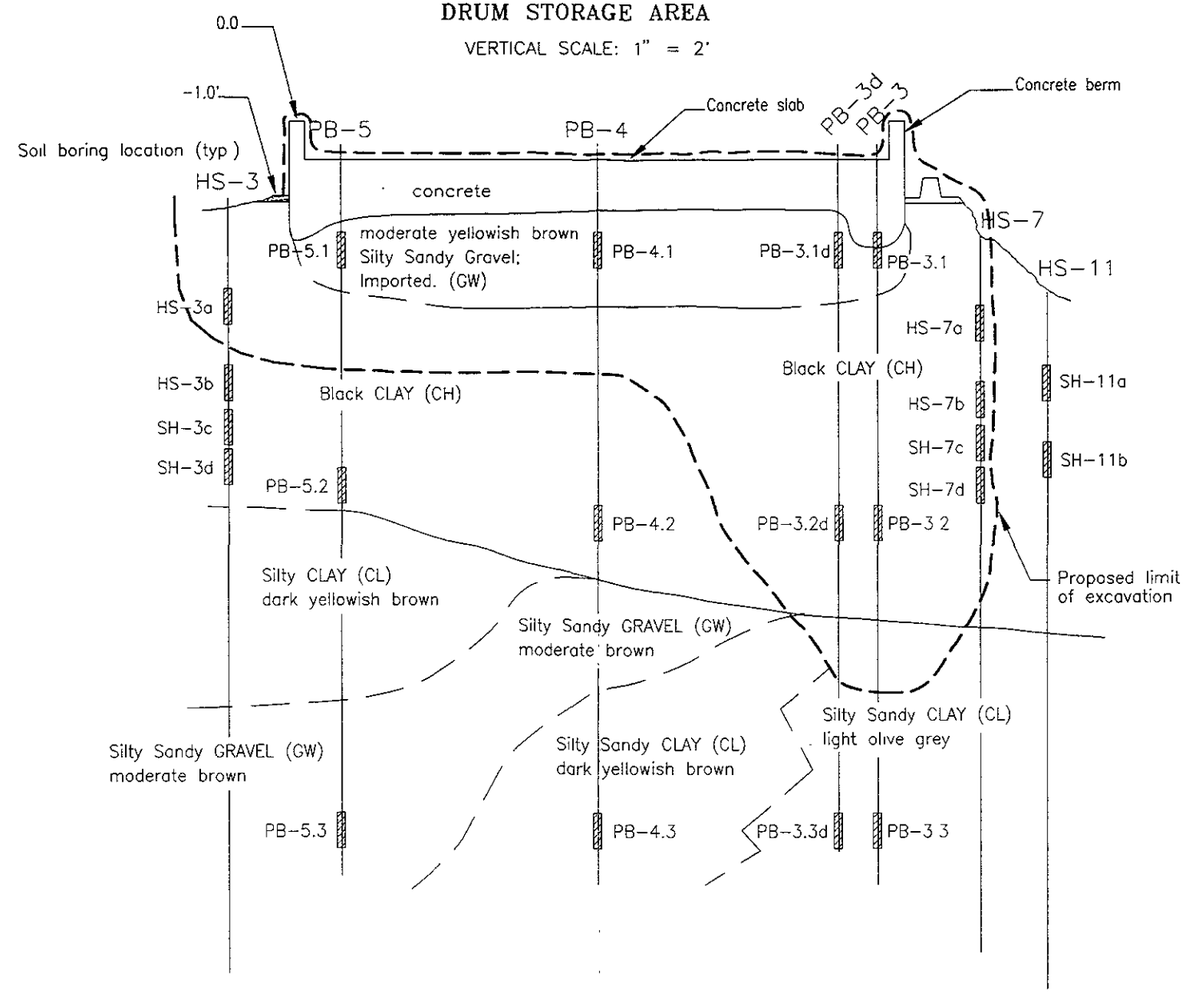
DRUM STORAGE AREA
PLAN VIEW AND SECTION A–A'
AMERICAN NATIONAL CAN COMPANY
OAKLAND
CALIFORNIA

FIGURE
1

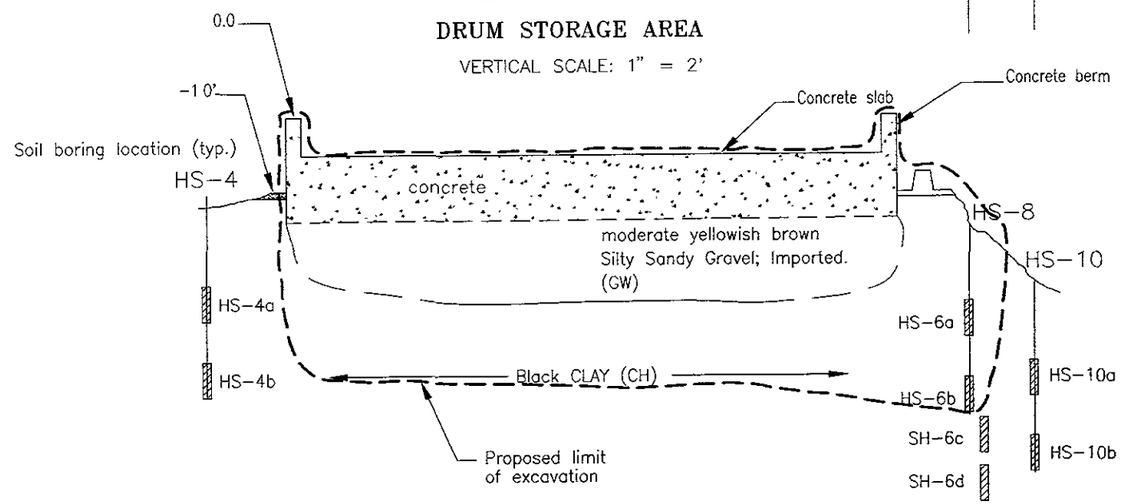
SECTION B – B'
DRUM STORAGE AREA
VERTICAL SCALE: 1" = 2'



SECTION C – C'
DRUM STORAGE AREA
VERTICAL SCALE: 1" = 2'



SECTION D – D'
DRUM STORAGE AREA
VERTICAL SCALE: 1" = 2'



HORIZONTAL SCALE

10 0 10

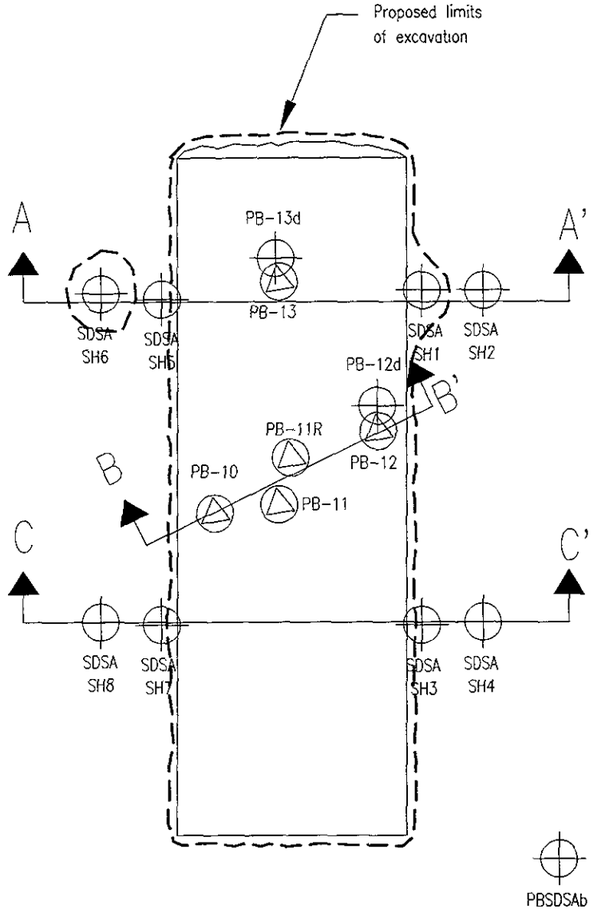
SCALE IN FEET

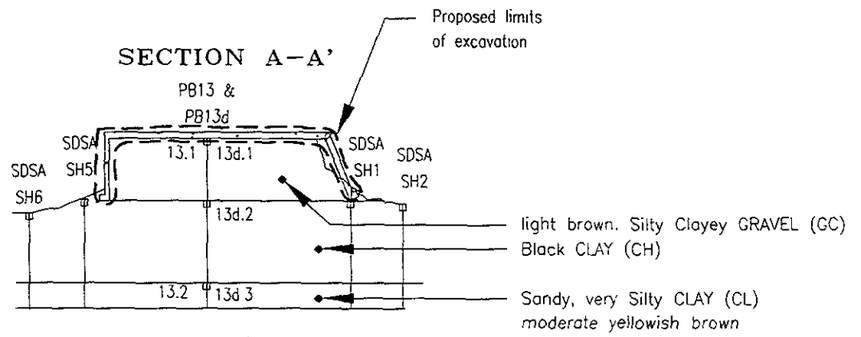
PROJECT #:	35195.108
ORIG. DATE:	JANUARY, 1995
PREP. BY:	CHI DU
REV. BY:	RICHARD BURZINSKI
SCALE:	1" = 10'
FILE NAME:	C:\PRO\+\35195A.DWG

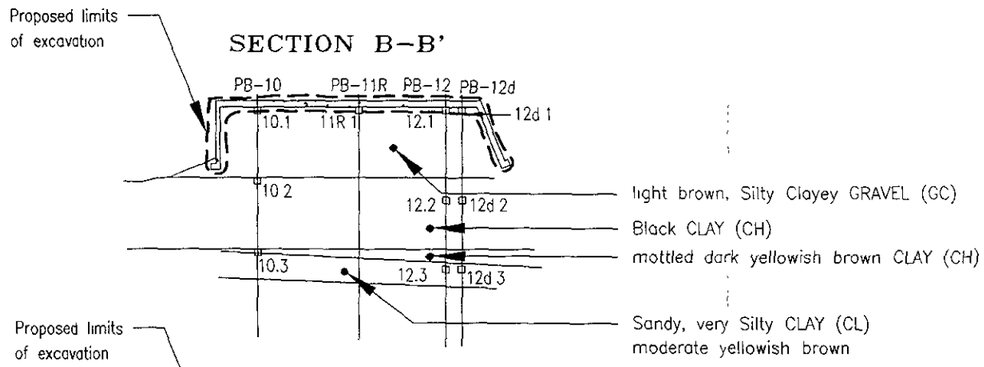
RUST ENVIRONMENT & INFRASTRUCTURE
SAN JOSE, CALIFORNIA

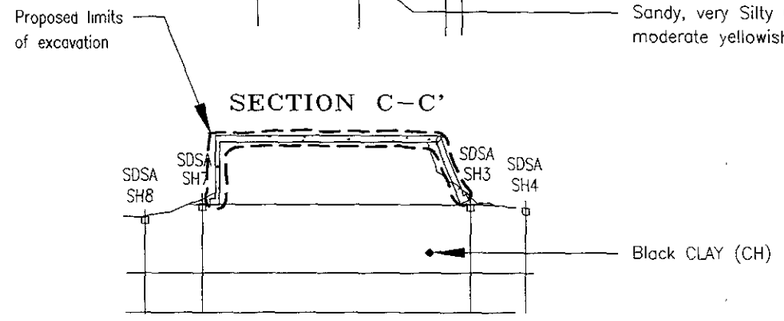
DRUM STORAGE AREA
SECTIONS B-B', C-C', D-D'
AMERICAN NATIONAL CAN COMPANY
OAKLAND
CALIFORNIA

FIGURE
1a









LEGEND

PB-10 — Soil boring location

A A' — Cross section location

SDSA SH3 — Additional soil boring location

Proposed Limit of Excavation, Based on Clean–up Levels

HORIZONTAL SCALE

10 0 10

SCALE IN FEET

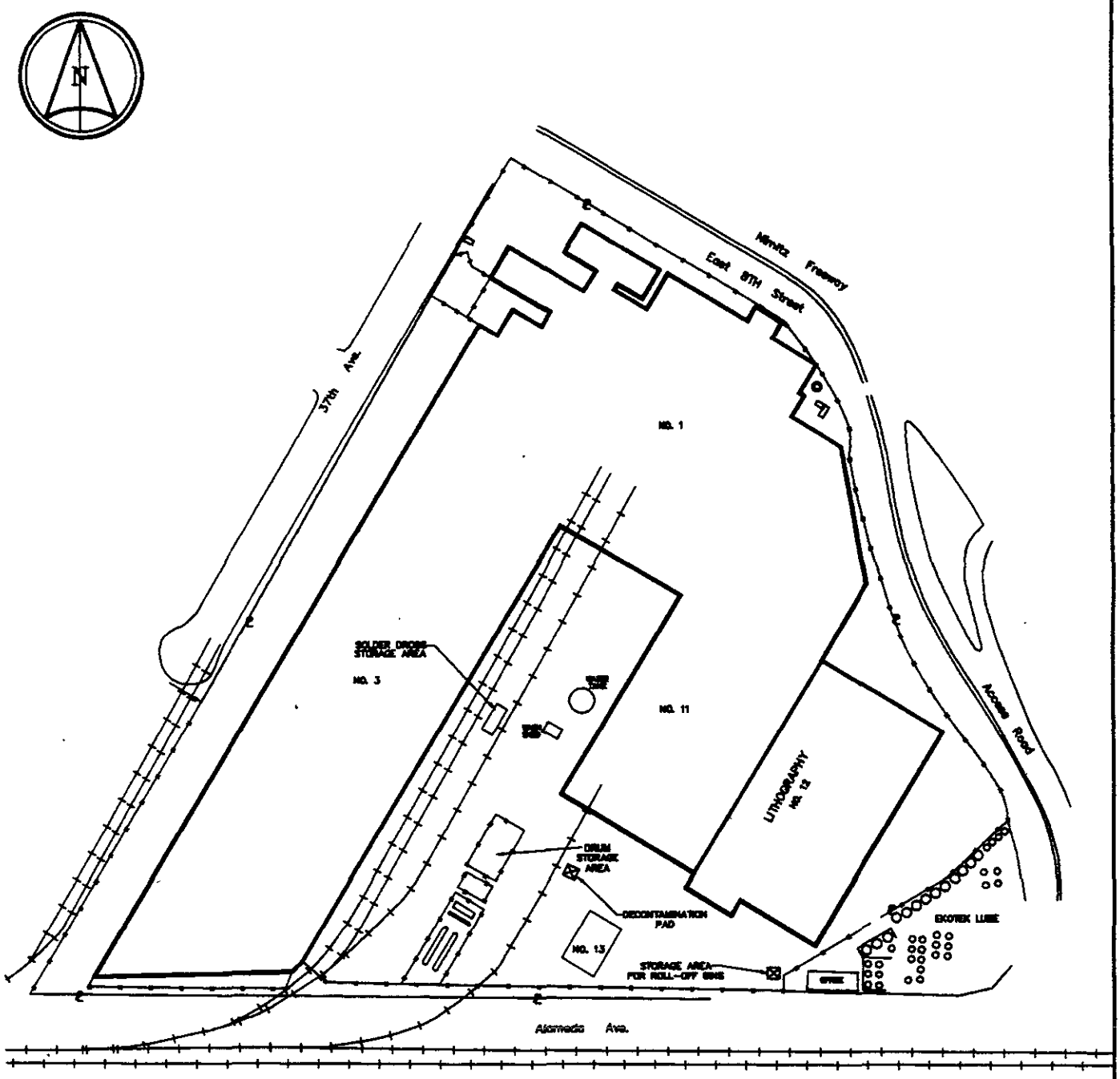
NORTH

PROJECT #:	35195.108
ORIG. DATE:	JANUARY, 1995
PREP. BY:	CHI DU
REV. BY:	RICHARD BURZINSKI
SCALE:	1" = 10"
FILE NAME:	C:\PRO*\35195B.DWG

RUST ENVIRONMENT & INFRASTRUCTURE
SAN JOSE, CALIFORNIA

SOLDER DROSS STORAGE AREA
AMERICAN NATIONAL CAN COMPANY
OAKLAND
CALIFORNIA

FIGURE
2



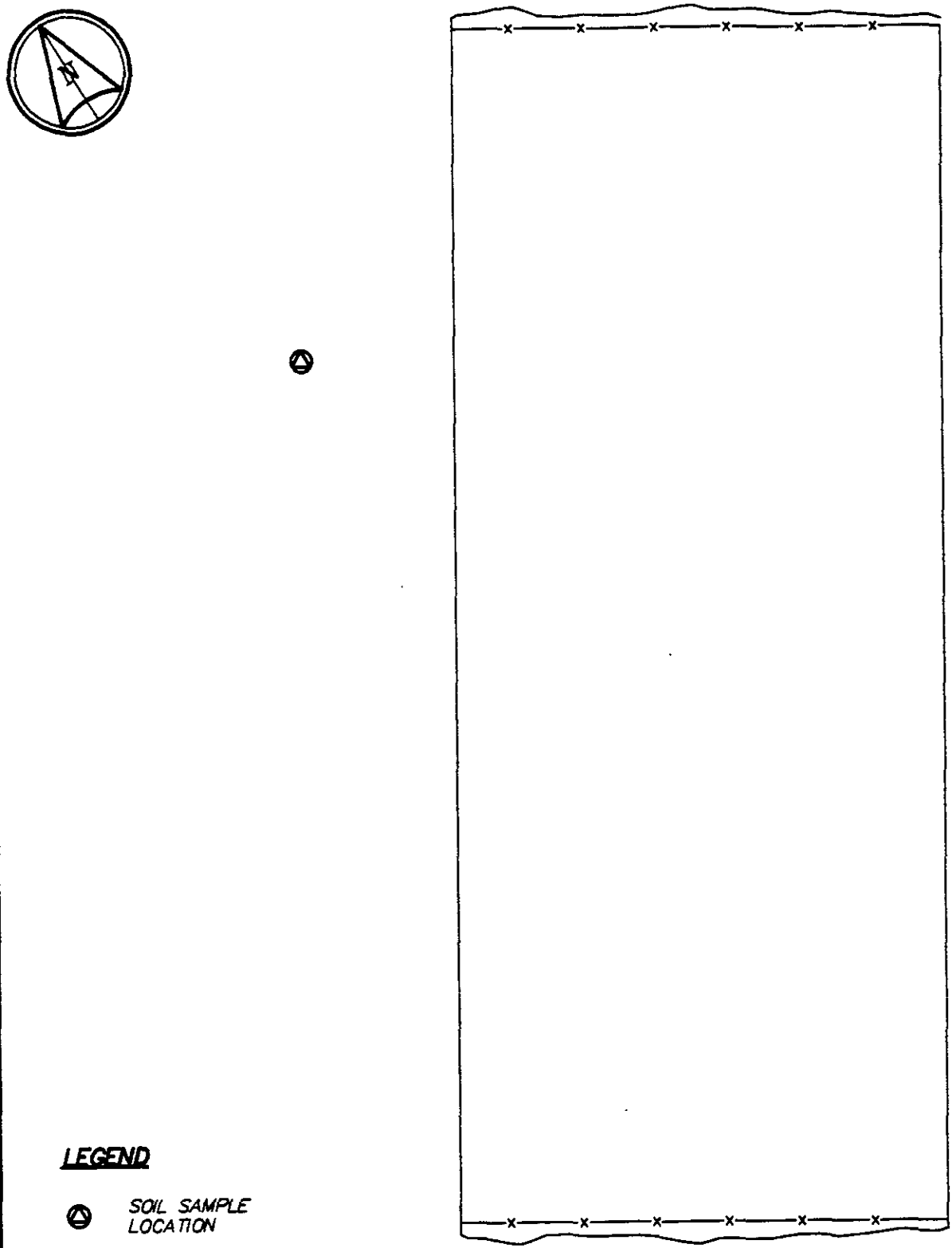
RUST ENVIRONMENT & INFRASTRUCTURE

SITE PLAN

AMERICAN NATIONAL CAN CO.
FORMER OAKLAND, CALIFORNIA FACILITY

TOWN OF OAKLAND — ALAMEDA COUNTY, CA

PROJECT NO.	DATE	DWG. NO.	SCALE	FIGURE NO.
35195.108	2/10/95	35195-22	1"=200'	3



LEGEND

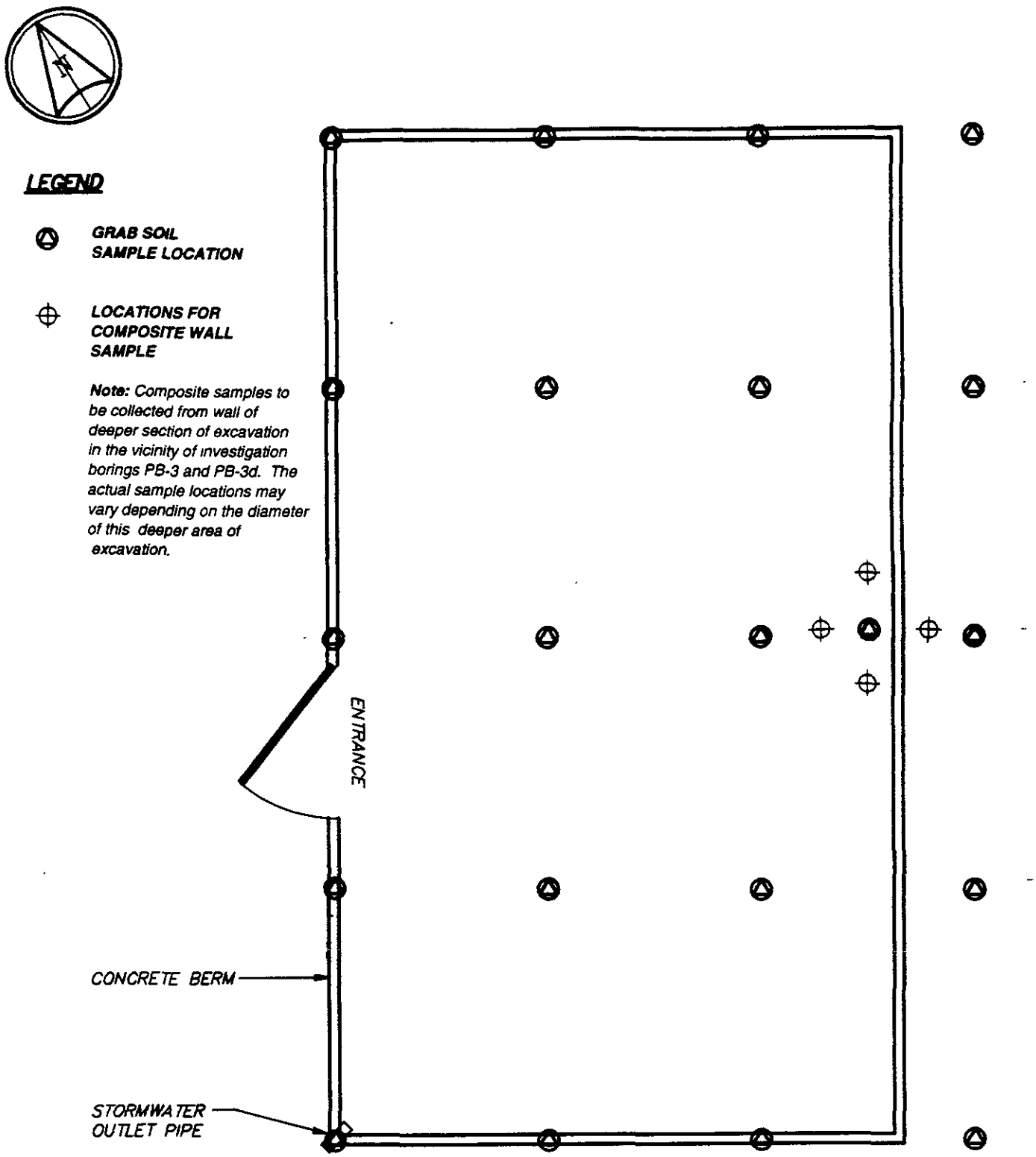
SOIL SAMPLE LOCATION

RUST ENVIRONMENT & INFRASTRUCTURE

POST EXCAVATION SOIL SAMPLE LOCATIONS
SOLDER DROSS STORAGE AREA

AMERICAN NATIONAL CAN COMPANY
FORMER OAKLAND, CALIFORNIA FACILITY

PROJECT NO. 35195.108	DATE 2/10/95	DWG. NO. 35195-19	SCALE 1"=5'	FIGURE NO. 4



RUST ENVIRONMENT & INFRASTRUCTURE

POST EXCAVATION SOIL SAMPLE LOCATIONS
DRUM STORAGE AREA

AMERICAN NATIONAL CAN COMPANY
FORMER OAKLAND, CALIFORNIA FACILITY

PROJECT NO. 35195.108	DATE 2/10/95	DWG. NO. 35195-18	SCALE 1"=10'	FIGURE NO. 5

APPENDIX A

LABORATORY ANALYTICAL REPORTS

Inchcape Testing Services
Anametrix Laboratories

1961 Concourse Drive
Suite E
San Jose, CA 95131
Tel: 408-432-8192
Fax: 408-432-8198

MR. WALTER HOWARD
RUST ENVIRONMENT AND INFRASTRUCTURE
12 METRO PARK ROAD
ALBANY, NY 12205

Workorder # : 9501244
Date Received : 01/27/95
Project ID : 35195.108
Purchase Order: N/A

The following samples were received at Anametrix for analysis :

ANAMETRIX ID	CLIENT SAMPLE ID
9501244- 1	SDSA-SH1
9501244- 2	SDSA-SH2
9501244- 3	SDSA-SH4
9501244- 4	SDSA-SH5
9501244- 5	SDSA-SH6
9501244- 6	SDSA-SH8

This report is organized in sections according to the specific Anametrix laboratory group which performed the analysis(es) and generated the data.

The results contained within this report relate to only the sample(s) tested. Additionally, these data should be considered in their entirety and Anametrix cannot be responsible for the detachment, separation, or otherwise partial use of this report.

Anametrix is certified by the California Department of Health Services (DHS) to perform environmental testing under Certificate Number 1234.

If you have any further questions or comments on this report, please call your project manager as soon as possible. Thank you for using Inchcape Testing Services.

Corinne Kraska Yeager for
Susan Kraska Yeager
Laboratory Director

01/31/95
Date

Cristina V Rayburn
Project Manager

This report consists of 13 pages.

ANAMETRIX REPORT DESCRIPTION
INORGANICS

Analytical Data Report (ADR)

The ADR contains tabulated results for inorganic analytes. All field samples, QC samples and blanks were prepared and analyzed according to procedures in the following references:

- "Test Methods for Evaluating Solid Waste," SW-846, EPA, 3rd Edition, November 1986.
- "Methods for Chemical Analysis of Water and Wastes," EPA, 3rd Edition, 1983.
- CCR Title 22, Section 66261, Appendix II, California Waste Extraction Test.
- CCR Title 22, Section 66261, Appendix XI, Organic Lead.
- "Standard Methods for the Examination of Water and Wastewater," APHA, AWWA, WEF, 18th Edition, 1992.
- USEPA Contract Laboratory Program Statement of Work for Inorganic Analyses, ILM02.1, 1991.

Matrix Spike Report (MSR)

The MSR summarizes percent recovery and relative percent difference information for matrix spikes and matrix spike duplicates. This information is a statement of both accuracy and precision. MSRs may not be provided with all analytical reports. Anametrix control limit for MSR is 75-125% with 25% for RPD limits, except for Method 6010A, which is 80-120% with 25% RPD limits.

Laboratory Control Sample Report (LCSR)

The LCSR summarizes percent recovery information for laboratory control spikes on reagent water or soil. This information is a statement of performance for the method, i.e., the samples are properly prepared and analyzed according to the applicable methods. Anametrix control limit for LCSR is 80-120%.

Method Blank Report (MBR)

The MBR summarizes quality control information for reagents used in preparing samples. The absolute value of each analyte measured in the method blank should be below the method reporting limit for that analyte.

Post Digestion Spike Report (PDSR)

The PDSR summarizes percent recovery information for post digestion spikes. A post digestion spike is performed for a particular analyte if the matrix spike recovery is outside of established control limits. Any percent recovery for a post digestion spike outside of established limits for an analyte indicates probable matrix effects and interferences for that analyte. Anametrix control limit for PDSR is 75-125%.

Qualifiers (Q)

Anametrix uses several data qualifiers in inorganic reports. These qualifiers give additional information on the analytes reported. The following is a list of qualifiers and their meanings:

- I - Sample was analyzed at the stated dilution due to spectral interferences.
- U - Analyte concentration was below the method reporting limit. For matrix and post digestion spike reports, a value of "0.0" is entered for calculation of the percent recovery.
- B - Sample concentration was below the reporting limit but above the instrument detection limit. Result is entered for calculation of the percent recovery only.
- H - Spike percent recovery was outside of Anametrix control limits due to interferences from relatively high concentration level of the analyte in the unspiked sample.
- L - Reporting limit was increased to compensate for background absorbances or matrix interferences.

Comment Codes

In addition to qualifiers, the following codes are used in the comment section of all reports to give additional information about sample preparation methods:

- A - Sample was prepared for silver based on the silver digestion method developed by the Southern California Laboratory, Department of Health Services, "Acid Digestion for Sediments, Sludges, Soils and Solid Wastes. A Proposed Alternative to EPA SW846, Method 3050." Environmental Science and Technology, 1989, 23, 898-900.
- T - Spikes were prepared after extraction by the Toxicity Characteristic Leaching Procedure (TCLP).
- C - Spikes were prepared after extraction by the California Waste Extraction Test (CWET) method.
- D - Reported results are dissolved, not total, metals.

Reporting Conventions

Analytical values reported are gross values, i.e., <u>not</u> corrected for method blank contamination. Solid matrices are reported on a wet weight basis, unless specifically requested otherwise.

REPORT SUMMARY
ANAMETRIX, INC. (408)432-8192

MR. WALTER HOWARD
RUST ENVIRONMENT AND INFRASTRUCTURE
12 METRO PARK ROAD
ALBANY, NY 12205

Workorder # : 9501244
Date Received : 01/27/95
Project ID : 35195.108
Purchase Order: N/A
Department : METALS
Sub-Department: METALS

SAMPLE INFORMATION:

ANAMETRIX SAMPLE ID	CLIENT SAMPLE ID	MATRIX	DATE SAMPLED	METHOD
9501244- 1	SDSA-SH1	SOIL	01/16/95	6010
9501244- 2	SDSA-SH2	SOIL	01/16/95	6010
9501244- 3	SDSA-SH4	SOIL	01/16/95	6010
9501244- 4	SDSA-SH5	SOIL	01/16/95	6010
9501244- 5	SDSA-SH6	SOIL	01/16/95	6010
9501244- 6	SDSA-SH8	SOIL	01/16/95	6010
9501244- 1	SDSA-SH1	SOIL	01/16/95	ORG Pb
9501244- 2	SDSA-SH2	SOIL	01/16/95	ORG Pb
9501244- 3	SDSA-SH4	SOIL	01/16/95	ORG Pb
9501244- 4	SDSA-SH5	SOIL	01/16/95	ORG Pb
9501244- 5	SDSA-SH6	SOIL	01/16/95	ORG Pb
9501244- 6	SDSA-SH8	SOIL	01/16/95	ORG Pb

REPORT SUMMARY
ANAMETRIX, INC. (408)432-8192

MR. WALTER HOWARD
RUST ENVIRONMENT AND INFRASTRUCTURE
12 METRO PARK ROAD
ALBANY, NY 12205

Workorder # : 9501244
Date Received : 01/27/95
Project ID : 35195.108
Purchase Order: N/A
Department : METALS
Sub-Department: METALS

QA/QC SUMMARY :

- All holding times have been met for the analyses reported in this section.
- Matrix spike recoveries for sample SDSA-SH2 for lead was outside Anametrix control limits, possibly due to matrix effects. A post digestion spike was performed, and the result was within control limits, indicating no spectral interferences.
- The relative percent difference for sample SDSA-SH2 and its duplicate for lead was outside Anametrix control limits, possibly due to the heterogenous nature of the sample.

Department Supervisor — Date 1/31/95

Chemist — Date 1/31/95

INCHCAPE TESTING SERVICES
ANAMETRIX LABORATORIES
(408) 432-8192
DATA REPORT

Analyte-Method: **Lead-6010A**
Client Project Number: **35195.108**
Matrix - Units: **SOIL**

Analyst: SC
Supervisor: NA

Anametrix Sample ID	Client Sample ID	Prep. Method	Instr. ID	Date Sampled	Date Prepared	Date Analyzed	D.F.	Reporting Limit	Results	Q
9501244-01	SDSA-SH1	3050A	ICP1	01/16/95	01/27/95	01/28/95	1	4.0	**40.5**	
9501244-02	SDSA-SH2	3050A	ICP1	01/16/95	01/27/95	01/28/95	1	4.0	**23.0**	
9501244-03	SDSA-SH4	3050A	ICP1	01/16/95	01/27/95	01/28/95	1	4.0	**76.2**	
9501244-04	SDSA-SH5	3050A	ICP1	01/16/95	01/27/95	01/28/95	1	4.0	**32.0**	
9501244-05	SDSA-SH6	3050A	ICP1	01/16/95	01/27/95	01/28/95	1	4.0	**511**	
9501244-06	SDSA-SH8	3050A	ICP1	01/16/95	01/27/95	01/28/95	1	4.0	**162**	
BJ275SA	METHOD BLANK	3050A	ICP1	N/A	01/27/95	01/28/95	1	4.0	**ND**	

COMMENTS:

INCHCAPE TESTING SERVICES
ANAMETRIX LABORATORIES
(408) 432-8192
DATA REPORT

Analyte-Method: **Zinc-6010A**
Client Project Number: **35195.108**
Matrix - Units: **SOIL**

Analyst: SC
Supervisor: [illegible]

Anametrix Sample ID	Client Sample ID	Prep. Method	Instr. ID	Date Sampled	Date Prepared	Date Analyzed	D.F.	Reporting Limit	Results	Q
9501244-01	SDSA-SH1	3050A	ICP1	01/16/95	01/27/95	01/28/95	1	2.0	**65.2**	
9501244-02	SDSA-SH2	3050A	ICP1	01/16/95	01/27/95	01/28/95	1	2.0	**298**	
9501244-03	SDSA-SH4	3050A	ICP1	01/16/95	01/27/95	01/28/95	1	2.0	**484**	
9501244-04	SDSA-SH5	3050A	ICP1	01/16/95	01/27/95	01/28/95	1	2.0	**66.3**	
9501244-05	SDSA-SH6	3050A	ICP1	01/16/95	01/27/95	01/28/95	1	2.0	**488**	
9501244-06	SDSA-SH8	3050A	ICP1	01/16/95	01/27/95	01/28/95	1	2.0	**129**	
BJ275SA	METHOD BLANK	3050A	ICP1	N/A	01/27/95	01/28/95	1	2.0	**ND**	

COMMENTS:

INCHCAPE TESTING SERVICES
ANAMETRIX LABORATORIES
(408) 432-8192

DATA REPORT

Analyte-Method: **Organic Lead-Org Pb**
Client Project Number: **35195.108**
Matrix - Units: **SOIL**

Analyst:
Supervisor:

Anametrix Sample ID	Client Sample ID	Prep. Method	Instr. ID	Date Sampled	Date Prepared	Date Analyzed	D.F.	Reporting Limit	Results	Q
9501244-01	SDSA-SH1	Org Pb	AA1	01/16/95	01/27/95	01/30/95	1	0.75	**ND**	
9501244-02	SDSA-SH2	Org Pb	AA1	01/16/95	01/27/95	01/30/95	1	0.75	**ND**	
9501244-03	SDSA-SH4	Org Pb	AA1	01/16/95	01/27/95	01/30/95	1	0.75	**ND**	
9501244-04	SDSA-SH5	Org Pb	AA1	01/16/95	01/27/95	01/30/95	1	0.75	**ND**	
9501244-05	SDSA-SH6	Org Pb	AA1	01/16/95	01/27/95	01/30/95	1	0.75	**ND**	
9501244-06	SDSA-SH8	Org Pb	AA1	01/16/95	01/27/95	01/30/95	1	0.75	**ND**	
BJ275SA	METHOD BLANK	Org Pb	AA1	N/A	01/27/95	01/30/95	1	0.75	**ND**	

COMMENTS:

INCHCAPE TESTING SERVICES
ANAMETRIX LABORATORIES
(408) 432-8192

SAMPLE DUPLICATE REPORT

Anametrix Sample ID: **9501244-02D**
Client Sample ID: **SDSA-SH2**
Client Project Number: **35195.108**
Matrix: **SOIL**

Analyst:
Supervisor:

Analyte	Prep. Method	Analyt. Method	Instr. ID	Date Prepared	Date Analyzed	Dil. Factor	Units	Sample Conc.	Sample Duplicate Conc.	RPD	Q
Lead	3050A	6010A	ICP1	01/27/95	01/28/95	1	mg/Kg	**23.0**	**40.6**	**55.3**	
Zinc	3050A	6010A	ICP1	01/27/95	01/28/95	1	mg/Kg	**298**	**312**	**4.6**	
Organic Lead	Org Pb	Org Pb	AA1	01/27/95	01/30/95	1	mg/Kg	**ND**	**ND**	**N/A**	

COMMENTS:

INCHCAPE TESTING SERVICES
ANAMETRIX LABORATORIES
(408) 432-8192
MATRIX SPIKE REPORT

Anametrix. Sample ID: **9501244-02MS,MD**
Client Sample ID: **SDSA-SH2**
Client Proj. Number: **35195.108**
Matrix: **SOIL**

Analyst: *s c*
Supervisor: *mc*

Analyte	Analyt. Method	Instr. I.D.	Date Prepared	Date Analyzed	Units	Spike Amount	Sample Conc.	Matrix Spike Conc.	% Rec.	Matrix Sp. Dup. Conc.	% Rec.	RPD	Q
Lead	6010A	ICP1	01/27/95	01/28/95	mg/Kg	50.0	23.0	60.1	**74.2**	64.2	**82.4**	**6.6**	
Zinc	6010A	ICP1	01/27/95	01/28/95	mg/Kg	50.0	298	352	**NR**	352	**NR**	**0.0**	H
Organic Lead	Org Pb	AA1	01/27/95	01/30/95	mg/Kg	11.0	0.0	10.3	**93.6**	10.8	**98.2**	**4.7**	U

COMMENTS: NR - Not reported due to high level of analyte concentration in the sample compared to spiked amount.

INCHCAPE TESTING SERVICES
ANAMETRIX LABORATORIES
(408) 432-8192

POST DIGESTION SPIKE REPORT

Anametrix Sample ID: **9501244-02PDS**
Client Sample ID: **SDSA-SH2**
Client Project Number: **35195.108**
Matrix: **SOIL**

Analyst: SC
Supervisor: MK

Analyte	Analyt. Method	Instr. ID	Date Prepared	Date Analyzed	D.F.	Units	Spike Amount	Sample Conc.	PDS Conc.	% Rec.	Q
Lead	6010A	ICP1	01/28/95	01/28/95	1	mg/Kg	46.0	23.0	61.7	**84.1**	

COMMENTS:

INCHCAPE TESTING SERVICES
ANAMETRIX LABORATORIES
(408) 432-8192

LABORATORY CONTROL SAMPLE REPORT

Lab. Control Sample ID: **LJ275SA**
Anametrix WO #: **9501244**
Client Project Number: **35195.108**
Matrix: **SOIL**

Analyst: J-C
Supervisor: [illegible]

Analyte	Prep. Method	Analytical Method	Instr. ID	Date Prepared	Date Analyzed	Dil. Factor	Units	Spike Amount	LCS Results	% Recovery	Q
Lead	3050A	6010A	ICP1	01/27/95	01/28/95	1	mg/Kg	50.0	41.0	**82.0**	
Zinc	3050A	6010A	ICP1	01/27/95	01/28/95	1	mg/Kg	50.0	42.0	**84.0**	
Organic Lead	Org Pb	Org Pb	AA1	01/27/95	01/30/95	1	mg/Kg	11.0	10.5	**95.5**	

COMMENTS:

Inchcape Testing Services
Anametrix Laboratories

SAMPLE RECEIVING CHECKLIST

WORKORDER NUMBER: 9501244 CLIENT PROJECT ID: 35195.108

COOLER

Shipping slip (airbill, etc.) present?	YES	NO	(N/A)
If YES, enter carrier name and airbill # : ____			
Custody Seal on the outside of cooler?	YES	NO	(N/A)
Condition: INTACT ____ BROKEN ____			
Temperature of sample (s) within range?	(YES)	NO	N/A
List temperature of cooler (s): 4°C			

SAMPLES

Chain of custody seal present for each container?	YES	NO	(N/A)
Condition: INTACT ____ BROKEN ____			
Samples arrived within holding time?	(YES)	NO	N/A
Samples in proper containers for methods requested?	(YES)	NO	
Condition of containers: INTACT ✓ BROKEN ____			
If NO, were samples transferred to proper container? ____			
Were VOA containers received with zero headspace?	YES	NO	(N/A)
If NO, was it noted on the chain of custody? ____			
Were container labels complete? (ID, date, time preservative, etc.)	(YES)	NO	
Were samples preserved with the proper preservative?	YES	NO	(N/A)
If NO, was the proper preservative added at time of receipt? ____			
pH check of samples required at time of receipt?	YES	(NO)	
If YES, pH checked and recorded by: ____			
Sufficient amount of sample received for methods requested?	(YES)	NO	
If NO, has the client or lab project manager been notified? ____			
Field blanks received with sample batch? # of Sets: ____	YES	NO	(N/A)
Trip blanks received with sample batch? # of Sets: ____	YES	NO	(N/A)

CHAIN OF CUSTODY

Chain of custody received with samples?	(YES)	NO
Has it been filled out completely and in ink?	(YES)	NO
Sample ID's on chain of custody agree with container labels?	(YES)	NO
Number of containers indicated on chain of custody agree with number received?	(YES)	NO
Analysis methods clearly specified?	(YES)	NO
Sampling date and time indicated?	(YES)	NO
Proper signatures of sampler, courier, sample custodian in appropriate place? with time and date?	(YES)	NO
Turnaround time? REGULAR ____ RUSH ✓		

Any NO response and/or any "BROKEN" that was checked must be detailed in the Corrective Action Form.

Sample Custodian: J.D. Date: 1/27/95 Project Manager: CWR Date: 1/28/95

9501249 10/24

~~24 Hour Turn Around~~ → 24 Hour Rush results faxed by Monday 3/27/95

RUST ENVIRONMENT & INFRASTRUCTURE ~~Kinetic~~

Chain of Custody Record

Custody Seal # | RUST E&I Cooler #

Project Number	Project Name/Client
35195.108	ANC

Samplers: (Signature) Richard Burgwin

Item No.	Sample Description (Field ID Number)	Date	Time	Grab	Comp	Lab Sample Number	Container Number	Analysis Required: Preserved, pH, Hexavalent Chrom, Total Lead, Organic Lead, Total Petro	Matrix: Sample Type (Soil, Water)	Sample Container: Number, Size
1	SDSAb-W	1-16-95	16:25					X	✓	1
2	DSAb-W	↓	15:30					X	✓	1
(1) 3	SDSA-SH1		9:47					X X X X	✓	1
(2) 4	SDSA-SH2		10:08					X X X X	✓	1
5	SDSA-SH3		11:07					X X X X	✓	1
(3) 6	SDSA-SH4		11:15					X X X X	✓	1
(4) 7	SDSA-SH5		12:19					X X X X	✓	1
(5) 8	SDSA-SH6		14:06					X X X X	✓	1
9	~~Signed~~ SDSA-SH7	↓	14:21					X	✓	1
(6) 10	SDSA-SH8	1-16-95	14:30					X X X X	✓	1
11	[redacted]									
12										
13										
14										
15										
16										
17										
18										
19										
20										

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Disposed of by: (Signature)	Items:	Date/Time
[signature]	1-17-95 9:15				
Relinquished by: (Signature)	Date/Time	Received by: (Signature) (Laboratory)	Disposed of by: (Signature)	Items:	Date/Time
	1-17-95 9:15	[signature]			

Send Lab Results To: Walt Howard
Rust, Albany N.Y.

Remarks: cc: 1 copy to Richard Burgwin – RUST San Jose
Federal Express Airbill No.:
Lab:

Check Delivery Method:
- [x] Samples delivered in person
- [ ] Common carrier
- [ ] Mail

Laboratory Receiving Notes:
Custody Seal Intact? Y 0
Temp. of Shipping Container: 5°C
Sample Condition: O.K.

Rev. 4/93 White Copy – Lab Yellow Copy – File Pink Copy – Client

MAR. 3 '94 2:8:PM P.3

Inchcape Testing Services
Anametrix Laboratories

1961 Concourse Drive
Suite E
San Jose, CA 95131
Tel: 408-432-8192
Fax: 408-432-8198

MR. WALTER HOWARD
RUST ENVIRONMENT AND INFRASTRUCTURE
12 METRO PARK ROAD
ALBANY, NY 12205

Workorder # : 9501248
Date Received : 01/27/95
Project ID : 35195.108
Purchase Order: N/A

The following samples were received at Anametrix for analysis :

ANAMETRIX ID	CLIENT SAMPLE ID
9501248- 1	SH9A
9501248- 2	SH9B
9501248- 3	SH10A
9501248- 4	SH10B
9501248- 5	SH11A
9501248- 6	SH11B
9501248- 7	SH12A
9501248- 8	SH12B
9501248- 9	SH13A
9501248-10	SH13B

This report is organized in sections according to the specific Anametrix laboratory group which performed the analysis(es) and generated the data.

The results contained within this report relate to only the sample(s) tested. Additionally, these data should be considered in their entirety and Anametrix cannot be responsible for the detachment, separation, or otherwise partial use of this report.

Anametrix is certified by the California Department of Health Services (DHS) to perform environmental testing under Certificate Number 1234.

If you have any further questions or comments on this report, please call your project manager as soon as possible. Thank you for using Inchcape Testing Services.

Corinne Thaw for
Susan Kraska Yeager
Laboratory Director

02/07/95
Date

Cristina V. Reyburn
Project Manager

This report consists of 23 pages.

REPORT SUMMARY
ANAMETRIX, INC. (408)432-8192

MR. WALTER HOWARD
RUST ENVIRONMENT AND INFRASTRUCTURE
12 METRO PARK ROAD
ALBANY, NY 12205

Workorder # : 9501248
Date Received : 01/27/95
Project ID : 35195.108
Purchase Order: N/A
Department : GC
Sub-Department: TPH

SAMPLE INFORMATION:

ANAMETRIX SAMPLE ID	CLIENT SAMPLE ID	MATRIX	DATE SAMPLED	METHOD
9501248- 1	SH9A	SOIL	01/27/95	TPHd
9501248- 2	SH9B	SOIL	01/27/95	TPHd
9501248- 3	SH10A	SOIL	01/27/95	TPHd
9501248- 4	SH10B	SOIL	01/27/95	TPHd
9501248- 5	SH11A	SOIL	01/27/95	TPHd
9501248- 6	SH11B	SOIL	01/27/95	TPHd
9501248- 7	SH12A	SOIL	01/27/95	TPHd
9501248- 8	SH12B	SOIL	01/27/95	TPHd
9501248- 9	SH13A	SOIL	01/27/95	TPHd
9501248-10	SH13B	SOIL	01/27/95	TPHd
9501248- 1	SH9A	SOIL	01/27/95	TPHg
9501248- 2	SH9B	SOIL	01/27/95	TPHg
9501248- 3	SH10A	SOIL	01/27/95	TPHg
9501248- 4	SH10B	SOIL	01/27/95	TPHg
9501248- 5	SH11A	SOIL	01/27/95	TPHg
9501248- 6	SH11B	SOIL	01/27/95	TPHg
9501248- 7	SH12A	SOIL	01/27/95	TPHg
9501248- 8	SH12B	SOIL	01/27/95	TPHg
9501248- 9	SH13A	SOIL	01/27/95	TPHg
9501248-10	SH13B	SOIL	01/27/95	TPHg

REPORT SUMMARY
ANAMETRIX, INC. (408)432-8192

MR. WALTER HOWARD
RUST ENVIRONMENT AND INFRASTRUCTURE
12 METRO PARK ROAD
ALBANY, NY 12205

Workorder # : 9501248
Date Received : 01/27/95
Project ID : 35195.108
Purchase Order: N/A
Department : GC
Sub-Department: TPH

QA/QC SUMMARY :

- All holding times have been met for the analyses reported in this section.

Cheryl Balmer 2/1/95
Department Supervisor Date

Reggie Davison 2/2/95
Chemist Date

TOTAL PETROLEUM HYDROCARBONS AS MINERAL SPIRITS

INCHCAPE TESTING SERVICES - ANAMETRIX

(408) 432-8192

DATA SUMMARY FORM

Anametrix Workorder:	9501248	Client Project ID:	35195.108
Matrix:	SOIL	Date Released:	2/2/95
Instrument ID:	HP8	Concentration Units:	mg/Kg

Anametrix ID	Client ID	Date Sampled	Date Analyzed	Dilution Factor	Reporting Limit	Amount Found	Surrogate Recovery
9501248-01	SH9A	1/27/95	1/31/95	2	0.5	ND	91%
9501248-02	SH9B	1/27/95	1/31/95	2	0.5	ND	82%
9501248-03	SH10A	1/27/95	1/31/95	2	0.5	ND	88%
9501248-04	SH10B	1/27/95	1/31/95	2	0.5	ND	86%
9501248-05	SH11A	1/27/95	1/31/95	2	0.5	ND	73%
9501248-06	SH11B	1/27/95	1/31/95	2	0.5	ND	86%
9501248-07	SH12A	1/27/95	1/31/95	2	0.5	ND	88%
9501248-08	SH12B	1/27/95	1/31/95	2	0.5	ND	64%
9501248-09	SH13A	1/27/95	1/31/95	2	0.5	ND	74%
9501248-10	SH13B	1/27/95	1/31/95	2	0.5	ND	63%
BJ3101E1	Method Blank	----	1/31/95	1	0.5	ND	113%
BJ3102E1	Method Blank	----	1/31/95	1	0.5	ND	82%

ND: Not detected at or above the reporting limit for the method.

TPHg: Total Petroleum Hydrocarbons as mineral spirits is determined by GC/FID (modified EPA Method 8015) following sample purge and trap by EPA Method 5030.

Surrogate recovery quality control limits for p-Bromofluorobenzene are 53-147%.

All testing procedures follow California Department of Health Services approved methods.

Luisa Shea 2/6/95

Analyst Date

Cheryl Balmer 2/6/95

Supervisor Date

TOTAL PETROLEUM HYDROCARBONS AS MINERAL SPIRITS

INCHCAPE TESTING SERVICES - ANAMETRIX

(408) 432-8192

MATRIX SPIKE RECOVERY REPORT

Client Project ID:	35195.108	Anametrix ID:	9501248-01
Client Sample ID:	SH9A	Date Released:	2/2/95
Date Sampled:	1/27/95	Instrument ID:	HP8
Date Analyzed:	1/31/95	Matrix:	SOIL
		Concentration Units:	mg/Kg

COMPOUND NAME	SPIKE AMT	SAMPLE CONC	MS CONC	% REC MS	MSD CONC	%REC MSD	RPD
Mineral Spirits	1.0	0	0.38	38%	0.28	28%	-30%
p-Bromofluorobenzene				121%		128%	

Quality control limits for MS/MSD recovery are 48-149%

Quality control limits for RPD(relative percent difference) are +/- 30%.

Quality control limits for p-Bromofluorobenzene recovery are 53-147%.

TOTAL PETROLEUM HYDROCARBONS AS MINERAL SPIRITS

INCHCAPE TESTING SERVICES - ANAMETRIX

(408) 432-8192

LABORATORY CONTROL SAMPLE REPORT

Client Project ID:	35195.108	Anametrix ID:	MJ3101E1
Matrix:	SOIL	Date Released:	2/2/95
Date Analyzed:	1/31/95	Instrument ID:	HP8
		Concentration Units:	mg/Kg

COMPOUND NAME	SPIKE AMT	LCS CONC	%REC LCS
Mineral Spirits	0.50	0.41	82%
p-Bromofluorobenzene			136%

Quality control limits for LCS recovery are 58-130%.

Quality control limits for p-Bromofluorobenzene recovery are 53-147%.

TOTAL PETROLEUM HYDROCARBONS AS DIESEL

INCHCAPE TESTING SERVICES - ANAMETRIX

(408) 432-8192

DATA SUMMARY FORM

Anametrix Workorder	9501248	Client Project ID:	35195.108
Matrix:	SOIL	Date Released:	2/1/95
Date Extracted:	1/28/95	Concentration Units:	mg/Kg
Instrument ID:	HP19		

Anametrix ID	Client ID	Date Sampled	Date Analyzed	Dilution Factor	Reporting Limit	Amount Found	Surrogate Recovery
9501248-01	SH9A	1/27/95	1/30/95	1	10	ND	93%
9501248-02	SH9B	1/27/95	1/30/95	1	10	ND	95%
9501248-03	SH10A	1/27/95	1/30/95	1	10	ND	93%
9501248-04	SH10B	1/27/95	1/30/95	1	10	ND	97%
9501248-05	SH11A	1/27/95	1/30/95	1	10	ND	93%
9501248-06	SH11B	1/27/95	1/31/95	1	10	ND	95%
9501248-07	SH12A	1/27/95	1/31/95	1	10	ND	94%
9501248-08	SH12B	1/27/95	1/31/95	1	10	ND	93%
9501248-09	SH13A	1/27/95	1/31/95	1	10	ND	95%
9501248-10	SH13B	1/27/95	1/30/95	1	10	ND	93%
BJ28H1F1	Method Blank	0/0/0	1/30/95	1	10	ND	94%

ND: Not detected at or above the reporting limit for the method.
TPHd: Total Petroleum Hydrocarbons as C10-C28 is determined by GC/FID (modified EPA Method 8015) following sample extraction by EPA Method 3550.
Surrogate recovery quality control limits for o-terphenyl are 64-109%.
All testing procedures follow California Department of Health Services approved methods.

Reggie Dawson 2/2/95
Analyst Date

Cheryl Baemer 2/1/95
Supervisor Date

TOTAL PETROLEUM HYDROCARBONS AS DIESEL

INCHCAPE TESTING SERVICES - ANAMETRIX

(408) 432-8192

MATRIX SPIKE RECOVERY REPORT

Client Project ID:	35195.108	Anametrix ID:	9501248-10
Client Sample ID:	SH13B	Date Released:	2/1/95
Date Sampled:	1/27/95	Instrument ID:	HP19
Date Extracted:	1/28/95	Matrix:	SOIL
Date Analyzed:	1/30/95	Concentration Units:	mg/Kg

COMPOUND NAME	SPIKE AMT	SAMPLE CONC	MS CONC	% REC MS	MSD CONC	%REC MSD	RPD
Diesel	62.5	0	58	93%	58	93%	0%
o-Terphenyl				94%		94%	

Quality control limits for MS/MSD recovery are 32-143%

Quality control limits for RPD(relative percent difference) are +/- 30%.

Quality control limits for o-terphenyl recovery are 55-129%

TOTAL PETROLEUM HYDROCARBONS AS DIESEL

INCHCAPE TESTING SERVICES - ANAMETRIX

(408) 432-8192

LABORATORY CONTROL SAMPLE REPORT

Client Project ID:	35195.108	Anametrix ID:	9501248
Matrix:	SOIL	Date Released:	2/1/95
Date Extracted:	1/28/95	Instrument ID:	HP19
Date Analyzed:	1/30/95	Concentration Units:	mg/Kg

COMPOUND NAME	SPIKE AMT	LCS CONC	%REC LCS
Diesel	62.5	59	94%
o-Terphenyl			96%

Quality control limits for LCS recovery are 48-113%.

Quality control limits for o-terphenyl recovery are 64-109%.

REPORT SUMMARY
ANAMETRIX, INC. (408)432-8192

MR. WALTER HOWARD
RUST ENVIRONMENT AND INFRASTRUCTURE
12 METRO PARK ROAD
ALBANY, NY 12205

Workorder # : 9501248
Date Received : 01/27/95
Project ID : 35195.108
Purchase Order: N/A
Department : METALS
Sub-Department: METALS

SAMPLE INFORMATION:

ANAMETRIX SAMPLE ID	CLIENT SAMPLE ID	MATRIX	DATE SAMPLED	METHOD
9501248- 1	SH9A	SOIL	01/27/95	6010
9501248- 2	SH9B	SOIL	01/27/95	6010
9501248- 3	SH10A	SOIL	01/27/95	6010
9501248- 4	SH10B	SOIL	01/27/95	6010
9501248- 5	SH11A	SOIL	01/27/95	6010
9501248- 6	SH11B	SOIL	01/27/95	6010
9501248- 7	SH12A	SOIL	01/27/95	6010
9501248- 8	SH12B	SOIL	01/27/95	6010
9501248- 9	SH13A	SOIL	01/27/95	6010
9501248-10	SH13B	SOIL	01/27/95	6010
9501248- 1	SH9A	SOIL	01/27/95	7196
9501248- 2	SH9B	SOIL	01/27/95	7196
9501248- 3	SH10A	SOIL	01/27/95	7196
9501248- 4	SH10B	SOIL	01/27/95	7196
9501248- 5	SH11A	SOIL	01/27/95	7196
9501248- 6	SH11B	SOIL	01/27/95	7196
9501248- 7	SH12A	SOIL	01/27/95	7196
9501248- 8	SH12B	SOIL	01/27/95	7196
9501248- 9	SH13A	SOIL	01/27/95	7196
9501248-10	SH13B	SOIL	01/27/95	7196
9501248- 1	SH9A	SOIL	01/27/95	ORG PB
9501248- 2	SH9B	SOIL	01/27/95	ORG PB
9501248- 3	SH10A	SOIL	01/27/95	ORG PB
9501248- 4	SH10B	SOIL	01/27/95	ORG PB

REPORT SUMMARY
ANAMETRIX, INC. (408)432-8192

MR. WALTER HOWARD
RUST ENVIRONMENT AND INFRASTRUCTURE
12 METRO PARK ROAD
ALBANY, NY 12205

Workorder # : 9501248
Date Received : 01/27/95
Project ID : 35195.108
Purchase Order: N/A
Department : METALS
Sub-Department: METALS

SAMPLE INFORMATION:

ANAMETRIX SAMPLE ID	CLIENT SAMPLE ID	MATRIX	DATE SAMPLED	METHOD
9501248- 5	SH11A	SOIL	01/27/95	ORG PB
9501248- 6	SH11B	SOIL	01/27/95	ORG PB
9501248- 7	SH12A	SOIL	01/27/95	ORG PB
9501248- 8	SH12B	SOIL	01/27/95	ORG PB
9501248- 9	SH13A	SOIL	01/27/95	ORG PB
9501248-10	SH13B	SOIL	01/27/95	ORG PB

REPORT SUMMARY
ANAMETRIX, INC. (408)432-8192

MR. WALTER HOWARD
RUST ENVIRONMENT AND INFRASTRUCTURE
12 METRO PARK ROAD
ALBANY, NY 12205

Workorder # : 9501248
Date Received : 01/27/95
Project ID : 35195.108
Purchase Order: N/A
Department : METALS
Sub-Department: METALS

QA/QC SUMMARY :

- All holding times have been met for the analyses reported in this section.

Department Supervisor 02/01/95 Date

Chemist 01/31/95 Date

INCHCAPE TESTING SERVICES
ANAMETRIX LABORATORIES
(408) 432-8192
DATA REPORT

Analyte-Method: **Lead-6010A**
Client Project Number: **35195.108**
Matrix - Units: **SOIL**

Analyst: NP
Supervisor: [signature]

Anametrix Sample ID	Client Sample ID	Prep. Method	Instr. ID	Date Sampled	Date Prepared	Date Analyzed	D.F.	Reporting Limit	Results	Q
9501248-01	SH9A	3050A	ICP1	01/27/95	01/28/95	01/30/95	1	4.0	**887**	
9501248-02	SH9B	3050A	ICP1	01/27/95	01/28/95	01/30/95	1	4.0	**15.7**	
9501248-03	SH10A	3050A	ICP1	01/27/95	01/28/95	01/30/95	1	4.0	**10.5**	
9501248-04	SH10B	3050A	ICP1	01/27/95	01/28/95	01/30/95	1	4.0	**7.2**	
9501248-05	SH11A	3050A	ICP1	01/27/95	01/28/95	01/30/95	1	4.0	**59.6**	
9501248-06	SH11B	3050A	ICP1	01/27/95	01/28/95	01/30/95	1	4.0	**137**	
9501248-07	SH12A	3050A	ICP1	01/27/95	01/28/95	01/30/95	1	4.0	**238**	
9501248-08	SH12B	3050A	ICP1	01/27/95	01/28/95	01/30/95	1	4.0	**105**	
9501248-09	SH13A	3050A	ICP1	01/27/95	01/28/95	01/30/95	1	4.0	**83.8**	
9501248-10	SH13B	3050A	ICP1	01/27/95	01/28/95	01/30/95	1	4.0	**9.9**	
BJ285SA	METHOD BLANK	3050A	ICP1	N/A	01/28/95	01/30/95	1	4.0	**ND**	

COMMENTS:

INCHCAPE TESTING SERVICES
ANAMETRIX LABORATORIES
(408) 432-8192
DATA REPORT

Analyte-Method: **Zinc-6010A**
Client Project Number: **35195.108**
Matrix - Units: **SOIL**

Analyst: MK
Supervisor: MA

Anametrix Sample ID	Client Sample ID	Prep. Method	Instr. ID	Date Sampled	Date Prepared	Date Analyzed	D.F.	Reporting Limit	Results	Q
9501248-01	SH9A	3050A	ICP1	01/27/95	01/28/95	01/30/95	1	2.0	**103**	
9501248-02	SH9B	3050A	ICP1	01/27/95	01/28/95	01/30/95	1	2.0	**69.3**	
9501248-03	SH10A	3050A	ICP1	01/27/95	01/28/95	01/30/95	1	2.0	**184**	
9501248-04	SH10B	3050A	ICP1	01/27/95	01/28/95	01/30/95	1	2.0	**118**	
9501248-05	SH11A	3050A	ICP1	01/27/95	01/28/95	01/30/95	2	4.0	**1570**	
9501248-06	SH11B	3050A	ICP1	01/27/95	01/28/95	01/30/95	2	4.0	**1310**	
9501248-07	SH12A	3050A	ICP1	01/27/95	01/28/95	01/30/95	1	2.0	**71.3**	
9501248-08	SH12B	3050A	ICP1	01/27/95	01/28/95	01/30/95	1	2.0	**66.7**	
9501248-09	SH13A	3050A	ICP1	01/27/95	01/28/95	01/30/95	1	2.0	**90.5**	
9501248-10	SH13B	3050A	ICP1	01/27/95	01/28/95	01/30/95	1	2.0	**32.5**	
BJ285SA	METHOD BLANK	3050A	ICP1	N/A	01/28/95	01/30/95	1	2.0	**ND**	

COMMENTS:

INCHCAPE TESTING SERVICES
ANAMETRIX LABORATORIES
(408) 432-8192
DATA REPORT

Analyte-Method: **Organic Lead-Org Pb**
Client Project Number: **35195.108**
Matrix - Units: **SOIL**

Analyst: MH
Supervisor: [illegible]

Anametrix Sample ID	Client Sample ID	Prep. Method	Instr. ID	Date Sampled	Date Prepared	Date Analyzed	D.F.	Reporting Limit	Results	Q
9501248-01	SH9A	Org Pb	AA1	01/27/95	01/28/95	01/30/95	1	0.75	**ND**	
9501248-02	SH9B	Org Pb	AA1	01/27/95	01/28/95	01/30/95	1	0.75	**ND**	
9501248-03	SH10A	Org Pb	AA1	01/27/95	01/28/95	01/30/95	1	0.75	**ND**	
9501248-04	SH10B	Org Pb	AA1	01/27/95	01/28/95	01/30/95	1	0.75	**ND**	
9501248-05	SH11A	Org Pb	AA1	01/27/95	01/28/95	01/30/95	1	0.75	**ND**	
9501248-06	SH11B	Org Pb	AA1	01/27/95	01/28/95	01/30/95	1	0.75	**ND**	
9501248-07	SH12A	Org Pb	AA1	01/27/95	01/28/95	01/30/95	1	0.75	**ND**	
9501248-08	SH12B	Org Pb	AA1	01/27/95	01/28/95	01/30/95	1	0.75	**ND**	
9501248-09	SH13A	Org Pb	AA1	01/27/95	01/28/95	01/30/95	1	0.75	**ND**	
9501248-10	SH13B	Org Pb	AA1	01/27/95	01/28/95	01/30/95	1	0.75	**ND**	
BJ285SA	METHOD BLANK	Org Pb	AA1	N/A	01/28/95	01/30/95	1	0.75	**ND**	

COMMENTS:

INCHCAPE TESTING SERVICES
ANAMETRIX LABORATORIES
(408) 432-8192
DATA REPORT

Analyte-Method: **Hexavalent Chromium-7196**
Client Project Number: **35195.108**
Matrix - Units: **SOIL**

Analyst: MK
Supervisor: MK

Anametrix Sample ID	Client Sample ID	Prep. Method	Instr. ID	Date Sampled	Date Prepared	Date Analyzed	D.F.	Reporting Limit	Results	Q
9501248-01	SH9A	3060	SPE2	01/27/95	01/28/95	01/28/95	10	1.0	**ND**	
9501248-02	SH9B	3060	SPE2	01/27/95	01/28/95	01/28/95	1	0.10	**ND**	
9501248-03	SH10A	3060	SPE2	01/27/95	01/28/95	01/28/95	1	0.10	**ND**	
9501248-04	SH10B	3060	SPE2	01/27/95	01/28/95	01/28/95	1	0.10	**ND**	
9501248-05	SH11A	3060	SPE2	01/27/95	01/28/95	01/28/95	1	0.10	**ND**	
9501248-06	SH11B	3060	SPE2	01/27/95	01/28/95	01/28/95	1	0.10	**ND**	
9501248-07	SH12A	3060	SPE2	01/27/95	01/28/95	01/28/95	1	0.10	**ND**	
9501248-08	SH12B	3060	SPE2	01/27/95	01/28/95	01/28/95	1	0.10	**ND**	
9501248-09	SH13A	3060	SPE2	01/27/95	01/28/95	01/28/95	1	0.10	**ND**	
9501248-10	SH13B	3060	SPE2	01/27/95	01/28/95	01/28/95	1	0.10	**ND**	
BJ285SA	METHOD BLANK	3060	SPE2	N/A	01/28/95	01/28/95	1	0.10	**ND**	

COMMENTS:

INCHCAPE TESTING SERVICES
ANAMETRIX LABORATORIES
(408) 432-8192

SAMPLE DUPLICATE REPORT

Anametrix Sample ID: **9501248-01D**
Client Sample ID: **SH9A**
Client Project Number: **35195.108**
Matrix: **SOIL**

Analyst: MK
Supervisor: [illegible]

Analyte	Prep. Method	Analyt. Method	Instr. ID	Date Prepared	Date Analyzed	Dil. Factor	Units	Sample Conc.	Sample Duplicate Conc.	RPD	Q
Lead	3050A	6010A	ICP1	01/28/95	01/30/95	1	mg/Kg	**887**	**835**	**6.0**	
Zinc	3050A	6010A	ICP1	01/28/95	01/30/95	1	mg/Kg	**103**	**83.5**	**20.9**	
Organic Lead	Org Pb	Org Pb	AA1	01/28/95	01/30/95	1	mg/Kg	**ND**	**ND**	**N/A**	

COMMENTS:

INCHCAPE TESTING SERVICES
ANAMETRIX LABORATORIES
(408) 432-8192
MATRIX SPIKE REPORT

Anametrix. Sample ID: **9501248-01MS,MD**
Client Sample ID: **SH9A**
Client Proj. Number: **35195.108**
Matrix: **SOIL**

Analyst: VP
Supervisor: MOK

Analyte	Analyt. Method	Instr. I.D.	Date Prepared	Date Analyzed	Units	Spike Amount	Sample Conc.	Matrix Spike Conc.	% Rec.	Matrix Sp. Dup. Conc.	% Rec.	RPD	Q
Lead	6010A	ICP1	01/28/95	01/30/95	mg/Kg	50.0	887	293	**NR**	305	**NR**	**4.0**	H
Zinc	6010A	ICP1	01/28/95	01/30/95	mg/Kg	50.0	103	116	**26.0**	121	**36.0**	**4.2**	
Hexavalent Chromium	3060	7196	01/28/95	01/28/95	mg/Kg	2.0	0.0	0.88	**44.0**	0.88	**44.0**	**0.0**	U

COMMENTS: NR - Not reported due to high level of analyte concentration in the sample compared to spiked amount.

INCHCAPE TESTING SERVICES
ANAMETRIX LABORATORIES
(408) 432-8192

POST DIGESTION SPIKE REPORT

Anametrix Sample ID: **9501248-01PDS**
Client Sample ID: **SH9A**
Client Project Number: **35195.108**
Matrix: **SOIL**

Analyst: MK
Supervisor: [illegible]

Analyte	Analyt. Method	Instr. ID	Date Prepared	Date Analyzed	D.F.	Units	Spike Amount	Sample Conc.	PDS Conc.	% Rec.	Q
Zinc	6010A	ICP1	01/30/95	01/30/95	1	mg/Kg	200	103	268	**82.5**	
Hexavalent Chromium	3060	7196	01/28/95	01/28/95	1	mg/Kg	10.0	0.0	9.3	**93.0**	U

COMMENTS:

INCHCAPE TESTING SERVICES
ANAMETRIX LABORATORIES
(408) 432-8192

LABORATORY CONTROL SAMPLE REPORT

Lab. Control Sample ID: **LJ285SA**
Anametrix WO #: **9501248**
Client Project Number: **35195.108**
Matrix: **SOIL**

Analyst: AJP
Supervisor:

Analyte	Prep. Method	Analytical Method	Instr. ID	Date Prepared	Date Analyzed	Dil. Factor	Units	Spike Amount	LCS Results	% Recovery	Q
Lead	3050A	6010A	ICP1	01/28/95	01/30/95	1	mg/Kg	50.0	41.7	**83.4**	
Zinc	3050A	6010A	ICP1	01/28/95	01/30/95	1	mg/Kg	50.0	43.2	**86.4**	
Organic Lead	Org Pb	Org Pb	AA1	01/28/95	01/30/95	1	mg/Kg	11.0	10.5	**95.5**	
Hexavalent Chromium	3060	7196	SPE2	01/28/95	01/28/95	1	mg/Kg	2.0	2.2	**110**	

COMMENTS:

Inchcape Testing Services
Anametrix Laboratories

SAMPLE RECEIVING CHECKLIST

WORKORDER NUMBER: 9501248 CLIENT PROJECT ID: 35195.108

COOLER

Shipping slip (airbill, etc.) present?	YES	NO	(N/A)
If YES, enter carrier name and airbill # : ____			
Custody Seal on the outside of cooler?	YES	NO	(N/A)
Condition: INTACT ____ BROKEN ____			
Temperature of sample (s) within range?	(YES)	NO	N/A
List temperature of cooler (s): 4°C			

SAMPLES

Chain of custody seal present for each container?	YES	NO	(N/A)
Condition: INTACT ____ BROKEN ____			
Samples arrived within holding time?	(YES)	NO	N/A
Samples in proper containers for methods requested?	(YES)	NO	
Condition of containers: INTACT ✓ BROKEN ____			
If NO, were samples transferred to proper container? ____			
Were VOA containers received with zero headspace?	YES	NO	(N/A)
If NO, was it noted on the chain of custody? ____			
Were container labels complete? (ID, date, time preservative, etc.)	(YES)	NO	
Were samples preserved with the proper preservative?	YES	NO	(N/A)
If NO, was the proper preservative added at time of receipt? ____			
pH check of samples required at time of receipt?	YES	(NO)	
If YES, pH checked and recorded by: ____			
Sufficient amount of sample received for methods requested?	(YES)	NO	
If NO, has the client or lab project manager been notified? ____			
Field blanks received with sample batch? # of Sets: ____	YES	NO	(N/A)
Trip blanks received with sample batch? # of Sets: ____	YES	NO	(N/A)

CHAIN OF CUSTODY

Chain of custody received with samples?	(YES)	NO
Has it been filled out completely and in ink?	(YES)	NO
Sample ID's on chain of custody agree with container labels?	(YES)	NO
Number of containers indicated on chain of custody agree with number received?	(YES)	NO
Analysis methods clearly specified?	(YES)	NO
Sampling date and time indicated?	(YES)	NO
Proper signatures of sampler, courier, sample custodian in appropriate place? with time and date?	(YES)	NO
Turnaround time? REGULAR ____ RUSH ✓		

Any NO response and/or any "BROKEN" that was checked must be detailed in the Corrective Action Form.

Sample Custodian: MB Date: 1/27/95 Project Manager: CVR Date: 1/28/95

01/27/95 17:31:58

ANAMETRIX
workorder: # 9501248 p.o #: N/A
report to: RUST ENVIRONMENT AND INFRASTRUC project #: 35195.108
12 METRO PARK ROAD
ALBANY, NY 12205

date received: 01/27/95
phone # : (518)458-1313 date due : 01/30/95
fax phone: (518)458-2472 disposal : H
attention: MR. WALTER HOWARD

DIS. CODE	WORKORDER	SAMPLE ID	MATRIX	METHOD	FRIG ID#	VOL AVL	CONTAINER	DATE SAMPLED
H	9501248- 9	SH13A	SOIL	ORG PB	2	1.	BL	01/27/95
H	9501248-10	SH13B	SOIL	ORG PB	2	1.	BL	01/27/95
H	9501248- 1	SH9A	SOIL	TPHd	2	1.	BL	01/27/95
H	9501248- 2	SH9B	SOIL	TPHd	2	1.	BL	01/27/95
H	9501248- 3	SH10A	SOIL	TPHd	2	1.	BL	01/27/95
H	9501248- 4	SH10B	SOIL	TPHd	2	1.	BL	01/27/95
H	9501248- 5	SH11A	SOIL	TPHd	2	1.	BL	01/27/95
H	9501248- 6	SH11B	SOIL	TPHd	2	1.	BL	01/27/95
H	9501248- 7	SH12A	SOIL	TPHd	2	1.	BL	01/27/95
H	9501248- 8	SH12B	SOIL	TPHd	2	1.	BL	01/27/95
H	9501248- 9	SH13A	SOIL	TPHd	2	1.	BL	01/27/95
H	9501248-10	SH13B	SOIL	TPHd	2	1.	BL	01/27/95
H	9501248- 1	SH9A	SOIL	TPHg	2	1.	BL	01/27/95
H	9501248- 2	SH9B	SOIL	TPHg	2	1.	BL	01/27/95
H	9501248- 3	SH10A	SOIL	TPHg	2	1.	BL	01/27/95
H	9501248- 4	SH10B	SOIL	TPHg	2	1.	BL	01/27/95
H	9501248- 5	SH11A	SOIL	TPHg	2	1.	BL	01/27/95
H	9501248- 6	SH11B	SOIL	TPHg	2	1.	BL	01/27/95
H	9501248- 7	SH12A	SOIL	TPHg	2	1.	BL	01/27/95
H	9501248- 8	SH12B	SOIL	TPHg	2	1.	BL	01/27/95
H	9501248- 9	SH13A	SOIL	TPHg	2	1.	BL	01/27/95
H	9501248-10	SH13B	SOIL	TPHg	2	1.	BL	01/27/95

COMMENTS : 24 HOUR RUSH!! PLEASE FAX RESULTS TO RICHARD BURZINSKI AT RUST, SAN JOSE. PLEASE RUN 6010 FOR Pb AND Zn. RUN TPHg FOR MINERAL SPIRITS. PLEASE KEEP SAMPLES FOR FURTHER ANALYSIS. MB

2

Custodian's Signature _____ Proj Mgr: CRISTINA RAYBURN

Date/Time into Refrigerator 1/26/95 1750

353

24 hour Rush (Hex Chrom !!)

RUST ENVIRONMENT & INFRASTRUCTURE

Chain of Custody Record

9501248

(2)

Custody Seal # | RUST E&I Cooler # /

Project Number	Project Name/Client
35195.108	American & Nat. Can Co.

Samplers: (Signature) Shelli

Item No.	Sample Description (Field ID Number)	Date	Time	Grab	Comp.	Lab Sample Number	Container Number	Analysis Required: Hexavalent Chromium	Pb & Zn	Org. Pb.	TPHd	Mineral Spirits	Added per Richard Burzinski	Matrix: Sample Type: Solids	Sample Container: Liners 2"
1	SHIIa	1-27-95	1205	X			1	X	X	X	X	X		X	X
2	SHIIb		1215	X			1							X	X
3	SH10a		1240	X			1							X	X
4	SH10b		1245	X			1							X	X
5	SH11a		1325	X			1							X	X
6	SH11b		1345	X			1							X	X
7	SH12a		1410	X			1							X	X
8	SH12b		1425	X			1							X	X
9	SH13a		1450	X			1							X	X
10	SH13b	↓	1510	X			1							X	X
11															
12															
13															
14															
15															
16															
17															
18															
19															
20															

4°C - upon receipt.

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Disposed of by: (Signature)	Items:	Date/Time
Relinquished by: (Signature) Shelli	Date/Time 1/27/95 1650	Received by: (Signature) [Laboratory]	Disposed of by: (Signature)	Items:	Date/Time

Send Lab Results To: Walt Howard
Albany, NY.
* Save all samples for further analysis

Remarks: Fax results to Richard Burzinski

Federal Express Airbill No.:
Lab:

Check Delivery Method:
- [x] Samples delivered in person
- [ ] Common carrier
- [ ] Mail

Laboratory Receiving Notes: good, cold.
Custody Seal Intact?
Temp. of Shipping Container: 4°C
Sample Condition: good.

Rev. 4/93 White Copy – Lab Yellow Copy – File Pink Copy – Client 1514/Earth Sci

Inchcape Testing Services
Anametrix Laboratories

1961 Concourse Drive
Suite E
San Jose, CA 95131
Tel: 408-432-8192
Fax: 408-432-8198

MR. WALTER HOWARD
RUST ENVIRONMENT AND INFRASTRUCTURE
12 METRO PARK ROAD
ALBANY, NY 12205

Workorder # : 9501122
Date Received : 01/17/95
Project ID : 35195.108
Purchase Order: N/A

The following samples were received at Anametrix for analysis :

ANAMETRIX ID	CLIENT SAMPLE ID
9501122- 1	DSA HS1a
9501122- 2	DSA HS1b
9501122- 3	DSA HS2a
9501122- 4	DSA HS2b
9501122- 5	DSA HS3a
9501122- 6	DSA HS3b
9501122- 7	DSA HA4a
9501122- 8	DSA HS4b
9501122- 9	DSA HS5a
9501122-10	DSA HS5b
9501122-11	DSA HS6a
9501122-12	DSA HS6b
9501122-13	DSA HS7a
9501122-14	DSA HS7b
9501122-15	DSA HS8a
9501122-16	DSA HS8b
9501122-17	SDSA-SH3
9501122-18	SDSA-SH7

This report is organized in sections according to the specific Anametrix laboratory group which performed the analysis(es) and generated the data.

The results contained within this report relate to only the sample(s) tested. Additionally, these data should be considered in their entirety and Anametrix cannot be responsible for the detachment, separation, or otherwise partial use of this report.

Anametrix is certified by the California Department of Health Services (DHS) to perform environmental testing under Certificate Number 1234.

If you have any further questions or comments on this report, please call your project manager as soon as possible. Thank you for using Inchcape Testing Services.

Corinne Ahern for
Susan Kraska Yeager
Laboratory Director

01/26/95
Date

Cristina V Rayburn
Project Manager

This report consists of 14 pages.

ANAMETRIX REPORT DESCRIPTION
INORGANICS

Analytical Data Report (ADR)

The ADR contains tabulated results for inorganic analytes. All field samples, QC samples and blanks were prepared and analyzed according to procedures in the following references:

- "Test Methods for Evaluating Solid Waste," SW-846, EPA, 3rd Edition, November 1986.
- "Methods for Chemical Analysis of Water and Wastes," EPA, 3rd Edition, 1983.
- CCR Title 22, Section 66261, Appendix II, California Waste Extraction Test.
- CCR Title 22, Section 66261, Appendix XI, Organic Lead.
- "Standard Methods for the Examination of Water and Wastewater," APHA, AWWA, WEF, 18th Edition, 1992.
- USEPA Contract Laboratory Program Statement of Work for Inorganic Analyses, ILM02.1, 1991.

Matrix Spike Report (MSR)

The MSR summarizes percent recovery and relative percent difference information for matrix spikes and matrix spike duplicates. This information is a statement of both accuracy and precision. MSRs may not be provided with all analytical reports. Anametrix control limit for MSR is 75-125% with 25% for RPD limits, except for Method 6010A, which is 80-120% with 25% RPD limits.

Laboratory Control Sample Report (LCSR)

The LCSR summarizes percent recovery information for laboratory control spikes on reagent water or soil. This information is a statement of performance for the method, i.e., the samples are properly prepared and analyzed according to the applicable methods. Anametrix control limit for LCSR is 80-120%.

Method Blank Report (MBR)

The MBR summarizes quality control information for reagents used in preparing samples. The absolute value of each analyte measured in the method blank should be below the method reporting limit for that analyte.

Post Digestion Spike Report (PDSR)

The PDSR summarizes percent recovery information for post digestion spikes. A post digestion spike is performed for a particular analyte if the matrix spike recovery is outside of established control limits. Any percent recovery for a post digestion spike outside of established limits for an analyte indicates probable matrix effects and interferences for that analyte. Anametrix control limit for PDSR is 75-125%.

Qualifiers (Q)

Anametrix uses several data qualifiers in inorganic reports. These qualifiers give additional information on the analytes reported. The following is a list of qualifiers and their meanings:

- I - Sample was analyzed at the stated dilution due to spectral interferences.
- U - Analyte concentration was below the method reporting limit. For matrix and post digestion spike reports, a value of "0.0" is entered for calculation of the percent recovery.
- B - Sample concentration was below the reporting limit but above the instrument detection limit. Result is entered for calculation of the percent recovery only.
- H - Spike percent recovery was outside of Anametrix control limits due to interferences from relatively high concentration level of the analyte in the unspiked sample.
- L - Reporting limit was increased to compensate for background absorbances or matrix interferences.

Comment Codes

In addition to qualifiers, the following codes are used in the comment section of all reports to give additional information about sample preparation methods:

- A - Sample was prepared for silver based on the silver digestion method developed by the Southern California Laboratory, Department of Health Services, "Acid Digestion for Sediments, Sludges, Soils and Solid Wastes. A Proposed Alternative to EPA SW846, Method 3050." Environmental Science and Technology, 1989, 23, 898-900.
- T - Spikes were prepared after extraction by the Toxicity Characteristic Leaching Procedure (TCLP).
- C - Spikes were prepared after extraction by the California Waste Extraction Test (CWET) method.
- D - Reported results are dissolved, not total, metals.

Reporting Conventions

Analytical values reported are gross values, i.e., <u>not</u> corrected for method blank contamination. Solid matrices are reported on a wet weight basis, unless specifically requested otherwise.

REPORT SUMMARY
ANAMETRIX, INC. (408)432-8192

MR. WALTER HOWARD
RUST ENVIRONMENT AND INFRASTRUCTURE
12 METRO PARK ROAD
ALBANY, NY 12205

Workorder # : 9501122
Date Received : 01/17/95
Project ID : 35195.108
Purchase Order: N/A
Department : METALS
Sub-Department: METALS

SAMPLE INFORMATION:

ANAMETRIX SAMPLE ID	CLIENT SAMPLE ID	MATRIX	DATE SAMPLED	METHOD
9501122- 1	DSA HS1a	SOIL	01/16/95	6010
9501122- 2	DSA HS1b	SOIL	01/16/95	6010
9501122- 3	DSA HS2a	SOIL	01/16/95	6010
9501122- 4	DSA HS2b	SOIL	01/16/95	6010
9501122- 5	DSA HS3a	SOIL	01/16/95	6010
9501122- 6	DSA HS3b	SOIL	01/16/95	6010
9501122- 7	DSA HA4a	SOIL	01/16/95	6010
9501122- 8	DSA HS4b	SOIL	01/16/95	6010
9501122- 9	DSA HS5a	SOIL	01/16/95	6010
9501122-10	DSA HS5b	SOIL	01/16/95	6010
9501122-11	DSA HS6a	SOIL	01/16/95	6010
9501122-12	DSA HS6b	SOIL	01/16/95	6010
9501122-13	DSA HS7a	SOIL	01/16/95	6010
9501122-14	DSA HS7b	SOIL	01/16/95	6010
9501122-15	DSA HS8a	SOIL	01/16/95	6010
9501122-16	DSA HS8b	SOIL	01/16/95	6010
9501122-17	SDSA-SH3	SOIL	01/16/95	6010
9501122-18	SDSA-SH7	SOIL	01/16/95	6010
9501122-17	SDSA-SH3	SOIL	01/16/95	7196
9501122-18	SDSA-SH7	SOIL	01/16/95	7196
9501122- 1	DSA HS1a	SOIL	01/16/95	ORG Pb
9501122- 2	DSA HS1b	SOIL	01/16/95	ORG Pb
9501122- 3	DSA HS2a	SOIL	01/16/95	ORG Pb
9501122- 4	DSA HS2b	SOIL	01/16/95	ORG Pb

REPORT SUMMARY
ANAMETRIX, INC. (408)432-8192

MR. WALTER HOWARD
RUST ENVIRONMENT AND INFRASTRUCTURE
12 METRO PARK ROAD
ALBANY, NY 12205

Workorder # : 9501122
Date Received : 01/17/95
Project ID : 35195.108
Purchase Order: N/A
Department : METALS
Sub-Department: METALS

SAMPLE INFORMATION:

ANAMETRIX SAMPLE ID	CLIENT SAMPLE ID	MATRIX	DATE SAMPLED	METHOD
9501122- 5	DSA HS3a	SOIL	01/16/95	ORG Pb
9501122- 6	DSA HS3b	SOIL	01/16/95	ORG Pb
9501122- 7	DSA HA4a	SOIL	01/16/95	ORG Pb
9501122- 8	DSA HS4b	SOIL	01/16/95	ORG Pb
9501122- 9	DSA HS5a	SOIL	01/16/95	ORG Pb
9501122-10	DSA HS5b	SOIL	01/16/95	ORG Pb
9501122-11	DSA HS6a	SOIL	01/16/95	ORG Pb
9501122-12	DSA HS6b	SOIL	01/16/95	ORG Pb
9501122-13	DSA HS7a	SOIL	01/16/95	ORG Pb
9501122-14	DSA HS7b	SOIL	01/16/95	ORG Pb
9501122-15	DSA HS8a	SOIL	01/16/95	ORG Pb
9501122-16	DSA HS8b	SOIL	01/16/95	ORG Pb
9501122-17	SDSA-SH3	SOIL	01/16/95	ORG Pb
9501122-18	SDSA-SH7	SOIL	01/16/95	ORG Pb

REPORT SUMMARY
ANAMETRIX, INC. (408)432-8192

MR. WALTER HOWARD
RUST ENVIRONMENT AND INFRASTRUCTURE
12 METRO PARK ROAD
ALBANY, NY 12205

Workorder # : 9501122
Date Received : 01/17/95
Project ID : 35195.108
Purchase Order: N/A
Department : METALS
Sub-Department: METALS

QA/QC SUMMARY :

- All holding times have been met for the analyses reported in this section.
- Matrix spike recoveries for sample SDSA-SH7 for chromium, lead and zinc were outside Anametrix control limits, possibly due to matrix effects. A post digestion spike was performed, and results were within control limits, indicatng no spectral interferences.

Department Supervisor 1/24/95 Date

Chemist 1/24/95 Date

INCHCAPE TESTING SERVICES
ANAMETRIX LABORATORIES
(408) 432-8192
DATA REPORT

Analyte-Method: **Lead-6010A**
Client Project Number: **35195.108**
Matrix - Units: **SOIL - mg/Kg**

Analyst: SC
Supervisor: WW

Anametrix Sample ID	Client Sample ID	Prep. Method	Instr. ID	Date Sampled	Date Prepared	Date Analyzed	D.F.	Reporting Limit	Results	Q
9501122-01	DSA HS1a	3050A	ICP1	01/16/95	01/17/95	01/19/95	1	4.0	**28.7**	
9501122-02	DSA HS1b	3050A	ICP1	01/16/95	01/17/95	01/19/95	1	4.0	**5.1**	
9501122-03	DSA HS2a	3050A	ICP1	01/16/95	01/17/95	01/19/95	1	4.0	**7.9**	
9501122-04	DSA HS2b	3050A	ICP1	01/16/95	01/17/95	01/19/95	1	4.0	**7.5**	
9501122-05	DSA HS3a	3050A	ICP1	01/16/95	01/17/95	01/19/95	1	4.0	**7.0**	
9501122-06	DSA HS3b	3050A	ICP1	01/16/95	01/17/95	01/19/95	1	4.0	**111**	
9501122-07	DSA HS4a	3050A	ICP1	01/16/95	01/17/95	01/19/95	1	4.0	**9.5**	
9501122-08	DSA HS4b	3050A	ICP1	01/16/95	01/17/95	01/19/95	1	4.0	**20.1**	
9501122-09	DSA HS5a	3050A	ICP1	01/16/95	01/17/95	01/20/95	1	4.0	**9.0**	
9501122-10	DSA HS5b	3050A	ICP1	01/16/95	01/17/95	01/20/95	1	4.0	**5.5**	
9501122-11	DSA HS6a	3050A	ICP1	01/16/95	01/17/95	01/20/95	1	4.0	**152**	
9501122-12	DSA HS6b	3050A	ICP1	01/16/95	01/17/95	01/20/95	1	4.0	**565**	
9501122-13	DSA HS7a	3050A	ICP1	01/16/95	01/17/95	01/20/95	1	4.0	**643**	
9501122-14	DSA HS7b	3050A	ICP1	01/16/95	01/17/95	01/20/95	3	12.0	**475**	I
9501122-15	DSA HS8a	3050A	ICP1	01/16/95	01/17/95	01/20/95	2	8.0	**1700**	
9501122-16	DSA HS8b	3050A	ICP1	01/16/95	01/17/95	01/20/95	1	4.0	**39.9**	
9501122-17	SDSA-SH3	3050A	ICP1	01/16/95	01/17/95	01/20/95	1	4.0	**10.7**	
9501122-18	SDSA-SH7	3050A	ICP1	01/16/95	01/17/95	01/20/95	1	4.0	**16.0**	
BJ175SC	METHOD BLANK	3050A	ICP1	N/A	01/17/95	01/19/95	1	4.0	**ND**	

COMMENTS:

INCHCAPE TESTING SERVICES
ANAMETRIX LABORATORIES
(408) 432-8192
DATA REPORT

Analyte-Method: **Chromium-6010A**
Client Project Number: **35195.108**
Matrix - Units: **SOIL - mg/Kg**

Analyst: JC
Supervisor: MM

Anametrix Sample ID	Client Sample ID	Prep. Method	Instr. ID	Date Sampled	Date Prepared	Date Analyzed	D.F.	Reporting Limit	Results	Q
9501122-17	SDSA-SH3	3050A	ICP1	01/16/95	01/17/95	01/20/95	1	1.0	**3.7**	
9501122-18	SDSA-SH7	3050A	ICP1	01/16/95	01/17/95	01/20/95	1	1.0	**40.9**	
BJ175SC	METHOD BLANK	3050A	ICP1	N/A	01/17/95	01/19/95	1	1.0	**ND**	

COMMENTS:

INCHCAPE TESTING SERVICES
ANAMETRIX LABORATORIES
(408) 432-8192
DATA REPORT

Analyte-Method: **Zinc-6010A**
Client Project Number: **35195.108**
Matrix - Units: **SOIL - mg/Kg**

Analyst: SC
Supervisor: WAT

Anametrix Sample ID	Client Sample ID	Prep. Method	Instr. ID	Date Sampled	Date Prepared	Date Analyzed	D.F.	Reporting Limit	Results	Q
9501122-17	SDSA-SH3	3050A	ICP1	01/16/95	01/17/95	01/20/95	1	2.0	**92.8**	
9501122-18	SDSA-SH7	3050A	ICP1	01/16/95	01/17/95	01/20/95	1	2.0	**152**	
BJ175SC	METHOD BLANK	3050A	ICP1	N/A	01/17/95	01/19/95	1	2.0	**ND**	

COMMENTS:

INCHCAPE TESTING SERVICES
ANAMETRIX LABORATORIES
(408) 432-8192
DATA REPORT

Analyte-Method: **Hexavalent Chromium-7196**
Client Project Number: **35195.108**
Matrix - Units: **SOIL - mg/Kg**

Analyst: SC
Supervisor: MK

Anametrix Sample ID	Client Sample ID	Prep. Method	Instr. ID	Date Sampled	Date Prepared	Date Analyzed	D.F.	Reporting Limit	Results	Q
9501122-17	SDSA-SH3	3060	SPE2	01/16/95	01/18/95	01/19/95	1	0.10	**ND**	
9501122-18	SDSA-SH7	3060	SPE2	01/16/95	01/18/95	01/19/95	1	0.10	**ND**	
BJ185SA	METHOD BLANK	3060	SPE2	N/A	01/18/95	01/19/95	1	0.10	**ND**	

COMMENTS:

INCHCAPE TESTING SERVICES
ANAMETRIX LABORATORIES
(408) 432-8192
DATA REPORT

Analyte-Method: **Organic Lead-Org Pb**
Client Project Number: **35195.108**
Matrix - Units: **SOIL - mg/Kg**

Analyst: SC
Supervisor: [illegible]

Anametrix Sample ID	Client Sample ID	Prep. Method	Instr. ID	Date Sampled	Date Prepared	Date Analyzed	D.F.	Reporting Limit	Results	Q
9501122-01	DSA HS1a	Org Pb	AA1	01/16/95	01/18/95	01/20/95	1	0.75	**ND**	
9501122-02	DSA HS1b	Org Pb	AA1	01/16/95	01/18/95	01/20/95	1	0.75	**ND**	
9501122-03	DSA HS2a	Org Pb	AA1	01/16/95	01/18/95	01/20/95	1	0.75	**ND**	
9501122-04	DSA HS2b	Org Pb	AA1	01/16/95	01/18/95	01/20/95	1	0.75	**ND**	
9501122-05	DSA HS3a	Org Pb	AA1	01/16/95	01/18/95	01/20/95	1	0.75	**ND**	
9501122-06	DSA HS3b	Org Pb	AA1	01/16/95	01/18/95	01/20/95	1	0.75	**ND**	
9501122-07	DSA HS4a	Org Pb	AA1	01/16/95	01/18/95	01/20/95	1	0.75	**ND**	
9501122-08	DSA HS4b	Org Pb	AA1	01/16/95	01/18/95	01/20/95	1	0.75	**ND**	
9501122-09	DSA HS5a	Org Pb	AA1	01/16/95	01/18/95	01/20/95	1	0.75	**ND**	
9501122-10	DSA HS5b	Org Pb	AA1	01/16/95	01/18/95	01/20/95	1	0.75	**ND**	
9501122-11	DSA HS6a	Org Pb	AA1	01/16/95	01/18/95	01/20/95	1	0.75	**ND**	
9501122-12	DSA HS6b	Org Pb	AA1	01/16/95	01/18/95	01/20/95	1	0.75	**ND**	
9501122-13	DSA HS7a	Org Pb	AA1	01/16/95	01/18/95	01/20/95	1	0.75	**ND**	
9501122-14	DSA HS7b	Org Pb	AA1	01/16/95	01/18/95	01/20/95	1	0.75	**ND**	
9501122-15	DSA HS8a	Org Pb	AA1	01/16/95	01/18/95	01/20/95	1	0.75	**ND**	
9501122-16	DSA HS8b	Org Pb	AA1	01/16/95	01/18/95	01/20/95	1	0.75	**ND**	
9501122-17	SDSA-SH3	Org Pb	AA1	01/16/95	01/18/95	01/20/95	1	0.75	**ND**	
9501122-18	SDSA-SH7	Org Pb	AA1	01/16/95	01/18/95	01/20/95	1	0.75	**ND**	
BJ185SA	METHOD BLANK	Org Pb	AA1	N/A	01/18/95	01/20/95	1	0.75	**ND**	

COMMENTS:

INCHCAPE TESTING SERVICES
ANAMETRIX LABORATORIES
(408) 432-8192

SAMPLE DUPLICATE REPORT

Anametrix Sample ID: **9501122-18D**
Client Sample ID: **SDSA-SH7**
Client Project Number: **35195.108**
Matrix: **SOIL**

Analyst: SC
Supervisor: MMG

Analyte	Prep. Method	Analyt. Method	Instr. ID	Date Prepared	Date Analyzed	Dil. Factor	Units	Sample Conc.	Sample Duplicate Conc.	RPD	Q
Chromium	3050A	6010A	ICP1	01/17/95	01/20/95	1	mg/Kg	**40.9**	**36.3**	**11.9**	
Lead	3050A	6010A	ICP1	01/17/95	01/20/95	1	mg/Kg	**16.0**	**19.4**	**19.2**	
Zinc	3050A	6010A	ICP1	01/17/95	01/20/95	1	mg/Kg	**152**	**143**	**6.1**	

COMMENTS:

INCHCAPE TESTING SERVICES
ANAMETRIX LABORATORIES
(408) 432-8192
MATRIX SPIKE REPORT

Anametrix. Sample ID: **9501122-18MS,MD**
Client Sample ID: **SDSA-SH7**
Client Proj. Number: **35195.108**
Matrix: **SOIL**

Analyst: JC
Supervisor: MK

Analyte	Analyt. Method	Instr. I.D.	Date Prepared	Date Analyzed	Units	Spike Amount	Sample Conc.	Matrix Spike Conc.	% Rec.	Matrix Sp. Dup. Conc.	% Rec.	RPD	Q
Organic Lead	Org Pb	AA1	01/18/95	01/20/95	mg/Kg	11.0	0.0	9.7	**88.2**	9.8	**89.1**	**1.0**	U
Chromium	6010A	ICP1	01/17/95	01/20/95	mg/Kg	20.0	40.9	47.9	**35.0**	52.9	**60.0**	**9.9**	
Lead	6010A	ICP1	01/17/95	01/20/95	mg/Kg	50.0	16.0	55.3	**78.6**	57.9	**83.8**	**4.6**	
Zinc	6010A	ICP1	01/17/95	01/20/95	mg/Kg	50.0	152	184	**64.0**	186	**68.0**	**1.1**	

COMMENTS:

INCHCAPE TESTING SERVICES
ANAMETRIX LABORATORIES
(408) 432-8192

POST DIGESTION SPIKE REPORT

Anametrix Sample ID: **9501122-18PDS**
Client Sample ID: **SDSA-SH7**
Client Project Number: **35195.108**
Matrix: **SOIL**

Analyst: SC
Supervisor: MM

Analyte	Analyt. Method	Instr. ID	Date Prepared	Date Analyzed	D.F.	Units	Spike Amount	Sample Conc.	PDS Conc.	% Rec.	Q
Chromium	6010A	ICP1	01/24/95	01/24/95	1	mg/Kg	80.0	40.9	109	**85.1**	
Lead	6010A	ICP1	01/17/95	01/20/95	1	mg/Kg	32.0	16.0	45.8	**93.1**	
Zinc	6010A	ICP1	01/17/95	01/20/95	1	mg/Kg	300	152	384	**77.3**	

COMMENTS:

INCHCAPE TESTING SERVICES
ANAMETRIX LABORATORIES
(408) 432-8192

LABORATORY CONTROL SAMPLE REPORT

Lab. Control Sample ID: **LJ175SC, LJ185SA**
Anametrix WO #: **9501122**
Client Project Number: **35195.108**
Matrix: **SOIL**

Analyst:
Supervisor:

Analyte	Prep. Method	Analytical Method	Instr. ID	Date Prepared	Date Analyzed	Dil. Factor	Units	Spike Amount	LCS Results	% Recovery	Q
Organic Lead	Org Pb	Org Pb	AA1	01/18/95	01/20/95	1	mg/Kg	11.0	10.6	**96.4**	
Chromium	3050A	6010A	ICP1	01/17/95	01/19/95	1	mg/Kg	20.0	17.7	**88.5**	
Lead	3050A	6010A	ICP1	01/17/95	01/19/95	1	mg/Kg	50.0	41.7	**83.4**	
Zinc	3050A	6010A	ICP1	01/17/95	01/19/95	1	mg/Kg	50.0	41.8	**83.6**	
Hexavalent Chromium	3060	7196	SPE2	01/18/95	01/19/95	1	mg/Kg	2.0	2.2	**110**	

COMMENTS:

Inchcape Testing Services
Anametrix Laboratories

SAMPLE RECEIVING CHECKLIST

WORKORDER NUMBER: 950122 CLIENT PROJECT ID: 35195 1.8

COOLER

Shipping slip (airbill, etc.) present?	YES	NO	(N/A)
If YES, enter carrier name and airbill # : _____			
Custody Seal on the outside of cooler?	YES	NO	(N/A)
Condition: INTACT ____ BROKEN ____			
Temperature of sample (s) within range?	YES	(NO)	N/A
List temperature of cooler (s): 13°C			

SAMPLES

Chain of custody seal present for each container?	YES	NO	(N/A)
Condition: INTACT ____ BROKEN ____			
Samples arrived within holding time?	(YES)	NO	N/A
Samples in proper containers for methods requested?	(YES)	NO	
Condition of containers: INTACT ✓ BROKEN ____			
If NO, were samples transferred to proper container? ____			
Were VOA containers received with zero headspace?	YES	NO	(N/A)
If NO, was it noted on the chain of custody? ____			
Were container labels complete? (ID, date, time preservative, etc.)	(YES)	NO	
Were samples preserved with the proper preservative?	YES	NO	(N/A)
If NO, was the proper preservative added at time of receipt? ____			
pH check of samples required at time of receipt?	YES	(NO)	
If YES, pH checked and recorded by: ____			
Sufficient amount of sample received for methods requested?	(YES)	NO	
If NO, has the client or lab project manager been notified? ____			
Field blanks received with sample batch? # of Sets: ____	YES	NO	(N/A)
Trip blanks received with sample batch? # of Sets: ____	YES	NO	(N/A)

CHAIN OF CUSTODY

Chain of custody received with samples?	(YES)	NO
Has it been filled out completely and in ink?	(YES)	NO
Sample ID's on chain of custody agree with container labels?	(YES)	NO
Number of containers indicated on chain of custody agree with number received?	(YES)	NO
Analysis methods clearly specified?	(YES)	NO
Sampling date and time indicated?	(YES)	NO
Proper signatures of sampler, courier, sample custodian in appropriate place? with time and date?	(YES)	NO
Turnaround time? REGULAR ____ RUSH ✓		

Any NO response and/or any "BROKEN" that was checked must be detailed in the Corrective Action Form.

Sample Custodian: _____ Date: 1/17/95 Project Manager: _____ Date: 1/25/95

5020

3 Day
~~24 Hour~~ RUST per Cristina

9501122

(10/15)

1:30 cm

RUST ENVIRONMENT & INFRASTRUCTURE RUST

Chain of Custody Record

Custody Seal #	RUST E&I Cooler #

Project Number	Project Name/Client
35195.108	ANC

Samplers: (Signature) Richard Buzinski

Item No.	Sample Description (Field ID Number)	Date	Time	Grab	Comp.	Lab Sample Number	Container Number	Analysis Required: Total Lead	Organic Lead	Total Chromium	Hexavalent Chromium	Total Zinc	Matrix: Sample Type: Soil	Matrix: Sample Container: 8 oz jar
1	DSA [redacted] HS1a	11/16/95	2:30					X	X				✓	/
2	DSA HS1b		2:31					X	X				✓	/
3	DSA HS2a		2:45					X	X				✓	/
4	DSA HS2b		2:46					X	X				✓	/
5	DSA HS3a		2:55					X	X				✓	/
6	DSA HS3b		2:56					X	X				✓	/
7	DSA HS4a		3:05					X	X				✓	/
8	DSA HS4b		3:06					X	X				✓	/
9	DSA HS5a		3:15					X	X				✓	/
10	DSA HS5b		3:16					X	X				✓	/
11	DSA HS6a		3:30					X	X				✓	/
12	DSA HS6b		3:31					X	X				✓	/
13	DSA HS7a		3:37					X	X				✓	/
14	DSA HS7b		3:38					X	X				✓	/
15	DSA HS8a		3:47					X	X				✓	/
16	DSA HS8b		3:48					X	X				✓	/
17	SDSA-SH3		11:03					X	X	X	X	X	✓	/
18	SDSA-SH7		14:35					X	X	X	X	X	✓	/
19														
20														

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Disposed of by: (Signature)	Items:	Date/Time
[signature]	1.17.96 1/16				
Relinquished by: (Signature)	Date/Time	Received by: (Signature) [Laboratory] Calscience	Disposed of by: (Signature)	Items:	Date/Time
	1/17/96 9:10				

Send Lab Results To: Walt Howard

RUST, Albany N.Y.

Remarks: Send copy to Richard Buzinski – RUST, San Jose

Federal Express Airbill No.:
Lab:

Check Delivery Method:
- [x] Samples delivered in person
- [ ] Common carrier
- [ ] Mail

Laboratory Receiving Notes:

Custody Seal Intact? N

Temp. of Shipping Container: 4 C

Sample Condition: Good

White Copy – Lab Yellow Copy – File Pink Copy – Client

1-514/Bath Su

Inchcape Testing Services
Anametrix Laboratories

1961 Concourse Drive
Suite E
San Jose, CA 95131
Tel: 408-432-8192
Fax: 408-432-8198

MR. WALTER HOWARD
RUST ENVIRONMENT AND INFRASTRUCTURE
12 METRO PARK ROAD
ALBANY, NY 12205

Workorder # : 9501242
Date Received : 01/27/95
Project ID : 35195.108
Purchase Order: N/A

The following samples were received at Anametrix for analysis :

ANAMETRIX ID	CLIENT SAMPLE ID
9501242- 1	SH3c
9501242- 2	SH3d
9501242- 3	SH6c
9501242- 4	SH6d
9501242- 5	SH7c
9501242- 6	SH7d

This report is organized in sections according to the specific Anametrix laboratory group which performed the analysis(es) and generated the data.

The results contained within this report relate to only the sample(s) tested. Additionally, these data should be considered in their entirety and Anametrix cannot be responsible for the detachment, separation, or otherwise partial use of this report.

Anametrix is certified by the California Department of Health Services (DHS) to perform environmental testing under Certificate Number 1234.

If you have any further questions or comments on this report, please call your project manager as soon as possible. Thank you for using Inchcape Testing Services.

Corinne Shaw for
Susan Kraska Yeager
Laboratory Director

01/31/95
Date

Cristina V. Rayburn
Project Manager

This report consists of 17 pages.

REPORT SUMMARY
ANAMETRIX, INC. (408)432-8192

MR. WALTER HOWARD
RUST ENVIRONMENT AND INFRASTRUCTURE
12 METRO PARK ROAD
ALBANY, NY 12205

Workorder # : 9501242
Date Received : 01/27/95
Project ID : 35195.108
Purchase Order: N/A
Department : GC
Sub-Department: TPH

SAMPLE INFORMATION:

ANAMETRIX SAMPLE ID	CLIENT SAMPLE ID	MATRIX	DATE SAMPLED	METHOD
9501242- 1	SH3c	SOIL	01/26/95	TPHd
9501242- 2	SH3d	SOIL	01/26/95	TPHd
9501242- 3	SH6c	SOIL	01/26/95	TPHd
9501242- 4	SH6d	SOIL	01/26/95	TPHd
9501242- 5	SH7c	SOIL	01/26/95	TPHd
9501242- 6	SH7d	SOIL	01/26/95	TPHd
9501242- 1	SH3c	SOIL	01/26/95	TPHg
9501242- 2	SH3d	SOIL	01/26/95	TPHg
9501242- 3	SH6c	SOIL	01/26/95	TPHg
9501242- 4	SH6d	SOIL	01/26/95	TPHg
9501242- 5	SH7c	SOIL	01/26/95	TPHg
9501242- 6	SH7d	SOIL	01/26/95	TPHg

REPORT SUMMARY
ANAMETRIX, INC. (408)432-8192

MR. WALTER HOWARD
RUST ENVIRONMENT AND INFRASTRUCTURE
12 METRO PARK ROAD
ALBANY, NY 12205

Workorder # : 9501242
Date Received : 01/27/95
Project ID : 35195.108
Purchase Order: N/A
Department : GC
Sub-Department: TPH

QA/QC SUMMARY :

- All holding times have been met for the analyses reported in this section.
- The concentration reported as diesel for sample SH7d is primarily due to the presence of a heavier petroleum product of hydrocarbon range C18-C36, possibly motor oil.

Cheryl Balmer 1/31/95
Department Supervisor Date

Doshi 1/31/95
Chemist Date

TOTAL PETROLEUM HYDROCARBONS AS MINERAL SPIRITS

INCHCAPE TESTING SERVICES - ANAMETRIX

(408) 432-8192

DATA SUMMARY FORM

Anametrix Workorder	9501242	Client Project ID:	35195.108
Matrix	SOIL	Date Released:	1/31/95
Instrument ID:	HP8	Concentration Units:	mg/Kg

Anametrix ID	Client ID	Date Sampled	Date Analyzed	Dilution Factor	Reporting Limit	Amount Found	Surrogate Recovery
9501242-01	SH3c	1/26/95	1/30/95	2	0.5	ND	106%
9501242-02	SH3d	1/26/95	1/30/95	2	0.5	ND	73%
9501242-03	SH6c	1/26/95	1/30/95	2	0.5	ND	67%
9501242-04	SH6d	1/26/95	1/30/95	2	0.5	ND	90%
9501242-05	SH7c	1/26/95	1/30/95	2	0.5	ND	64%
9501242-06	SH7d	1/26/95	1/30/95	2	0.5	ND	67%
BJ3001E1	Method Blank	----	1/30/95	1	0.5	ND	120%

ND: Not detected at or above the reporting limit for the method.

TPHg: Total Petroleum Hydrocarbons as mineral spirits is determined by GC/FID (modified EPA Method 8015) following sample purge and trap by EPA Method 5030

Surrogate recovery quality control limits for p-Bromofluorobenzene are 53-147%.

All testing procedures follow California Department of Health Services approved methods

Doshi 1/31/95

Analyst Date

Cheryl Bateman 1/31/95

Supervisor Date

TOTAL PETROLEUM HYDROCARBONS AS MINERAL SPIRITS

INCHCAPE TESTING SERVICES - ANAMETRIX

(408) 432-8192

MATRIX SPIKE RECOVERY REPORT

Client Project ID	35195.108	Anametrix ID:	9501242-01
Client Sample ID:	SH3c	Date Released:	1/31/95
Date Sampled:	1/26/95	Instrument ID:	HP8
Date Analyzed	1/30/95	Matrix:	SOIL
		Concentration Units:	mg/Kg

COMPOUND NAME	SPIKE AMT	SAMPLE CONC	MS CONC	% REC MS	MSD CONC	%REC MSD	RPD
Mineral Spirits	1 0	0	0.61	61%	0 46	46%	-28%
p-Bromofluorobenzene				138%		134%	

Quality control limits for MS/MSD recovery are 48-149%

Quality control limits for RPD(relative percent difference) are +/- 30%.

Quality control limits for p-Bromofluorobenzene recovery are 53-147%.

TOTAL PETROLEUM HYDROCARBONS AS MINERAL SPIRITS

INCHCAPE TESTING SERVICES - ANAMETRIX

(408) 432-8192

LABORATORY CONTROL SAMPLE REPORT

Client Project ID	35195.108	Anametrix ID.	MJ3001E1
Matrix	SOIL	Date Released:	1/31/95
Date Analyzed	1/30/95	Instrument ID:	HP8
		Concentration Units:	mg/Kg

COMPOUND NAME	SPIKE AMT	LCS CONC	%REC LCS
Mineral Spirits	0 50	0.43	86%
p-Bromofluorobenzene			130%

Quality control limits for LCS recovery are 58-130%.

Quality control limits for p-Bromofluorobenzene recovery are 53-147%.

TOTAL PETROLEUM HYDROCARBONS AS DIESEL

INCHCAPE TESTING SERVICES - ANAMETRIX

(408) 432-8192

DATA SUMMARY FORM

Anametrix Workorder	9501242	Client Project ID:	35195.108
Matrix	SOIL	Date Released:	1/31/95
Date Extracted	1/28/95	Concentration Units:	mg/Kg
Instrument ID	HP27		

Anametrix ID	Client ID	Date Sampled	Date Analyzed	Dilution Factor	Reporting Limit	Amount Found	Surrogate Recovery
9501242-01	SH3c	1/26/95	1/30/95	1	10	ND	101%
9501242-02	SH3d	1/26/95	1/31/95	1	10	ND	89%
9501242-03	SH6c	1/26/95	1/31/95	1	10	ND	109%
9501242-04	SH6d	1/26/95	1/31/95	1	10	ND	65%
9501242-05	SH7c	1/26/95	1/31/95	1	10	ND	103%
9501242-06	SH7d	1/26/95	1/31/95	1	10	12	104%
BJ28H1F1	Method Blank	----	1/30/95	1	10	ND	107%

ND Not detected at or above the reporting limit for the method.
TPHd: Total Petroleum Hydrocarbons as C10-C28 is determined by GC/FID (modified EPA Method 8015) following sample extraction by EPA Method 3550.
Surrogate recovery quality control limits for o-terphenyl are 64-109%.
All testing procedures follow California Department of Health Services approved methods.

Analyst 1/31/95 Date

Supervisor 1/31/95 Date

TOTAL PETROLEUM HYDROCARBONS AS DIESEL

INCHCAPE TESTING SERVICES - ANAMETRIX

(408) 432-8192

LABORATORY CONTROL SAMPLE REPORT

Client Project ID	35195.108	Anametrix ID.	MJ28H1F1
Matrix	SOIL	Date Released:	1/31/95
Date Extracted	1/28/95	Instrument ID:	HP27
Date Analyzed	1/30/95	Concentration Units.	mg/Kg

COMPOUND NAME	SPIKE AMT	LCS CONC	%REC LCS
Diesel	62 5	69.1	111%
o-Terphenyl			103%

Quality control limits for LCS recovery are 48-113%.

Quality control limits for o-terphenyl recovery are 64-109%

REPORT SUMMARY
ANAMETRIX, INC. (408)432-8192

MR. WALTER HOWARD
RUST ENVIRONMENT AND INFRASTRUCTURE
12 METRO PARK ROAD
ALBANY, NY 12205

Workorder # : 9501242
Date Received : 01/27/95
Project ID : 35195.108
Purchase Order: N/A
Department : METALS
Sub-Department: METALS

SAMPLE INFORMATION:

ANAMETRIX SAMPLE ID	CLIENT SAMPLE ID	MATRIX	DATE SAMPLED	METHOD
9501242- 1	SH3c	SOIL	01/26/95	6010
9501242- 2	SH3d	SOIL	01/26/95	6010
9501242- 3	SH6c	SOIL	01/26/95	6010
9501242- 4	SH6d	SOIL	01/26/95	6010
9501242- 5	SH7c	SOIL	01/26/95	6010
9501242- 6	SH7d	SOIL	01/26/95	6010
9501242- 1	SH3c	SOIL	01/26/95	7196
9501242- 2	SH3d	SOIL	01/26/95	7196
9501242- 3	SH6c	SOIL	01/26/95	7196
9501242- 4	SH6d	SOIL	01/26/95	7196
9501242- 5	SH7c	SOIL	01/26/95	7196
9501242- 6	SH7d	SOIL	01/26/95	7196
9501242- 1	SH3c	SOIL	01/26/95	ORG Pb
9501242- 2	SH3d	SOIL	01/26/95	ORG Pb
9501242- 3	SH6c	SOIL	01/26/95	ORG Pb
9501242- 4	SH6d	SOIL	01/26/95	ORG Pb
9501242- 5	SH7c	SOIL	01/26/95	ORG Pb
9501242- 6	SH7d	SOIL	01/26/95	ORG Pb

REPORT SUMMARY
ANAMETRIX, INC. (408)432-8192

MR. WALTER HOWARD
RUST ENVIRONMENT AND INFRASTRUCTURE
12 METRO PARK ROAD
ALBANY, NY 12205

Workorder # : 9501242
Date Received : 01/27/95
Project ID : 35195.108
Purchase Order: N/A
Department : METALS
Sub-Department: METALS

QA/QC SUMMARY :

- All holding times have been met for the analyses reported in this section.

Department Supervisor 1/31/95 Date

Chemist 1/31/95 Date

INCHCAPE TESTING SERVICES
ANAMETRIX LABORATORIES
(408) 432-8192
DATA REPORT

Analyte-Method: **Lead-6010A**
Client Project Number: **35195.108**
Matrix - Units: **SOIL - mg/Kg**

Analyst: NV
Supervisor: MW

Anametrix Sample ID	Client Sample ID	Prep. Method	Instr. ID	Date Sampled	Date Prepared	Date Analyzed	D.F.	Reporting Limit	Results	Q
9501242-01	SH3c	3050A	ICP1	01/26/95	01/28/95	01/30/95	1	4.0	**9.6**	
9501242-02	SH3d	3050A	ICP1	01/26/95	01/28/95	01/30/95	1	4.0	**11.9**	
9501242-03	SH6c	3050A	ICP1	01/26/95	01/28/95	01/30/95	1	4.0	**441**	
9501242-04	SH6d	3050A	ICP1	01/26/95	01/28/95	01/30/95	1	4.0	**78.4**	
9501242-05	SH7c	3050A	ICP1	01/26/95	01/28/95	01/30/95	1	4.0	**9.2**	
9501242-06	SH7d	3050A	ICP1	01/26/95	01/28/95	01/30/95	1	4.0	**63.4**	
BJ285SA	METHOD BLANK	3050A	ICP1	N/A	01/28/95	01/30/95	1	4.0	**ND**	

COMMENTS:

INCHCAPE TESTING SERVICES
ANAMETRIX LABORATORIES
(408) 432-8192
DATA REPORT

Analyte-Method: **Zinc-6010A**
Client Project Number: **35195.108**
Matrix - Units: **SOIL - mg/Kg**

Analyst: N I
Supervisor: MA

Anametrix Sample ID	Client Sample ID	Prep. Method	Instr. ID	Date Sampled	Date Prepared	Date Analyzed	D.F.	Reporting Limit	Results	Q
9501242-01	SH3c	3050A	ICP1	01/26/95	01/28/95	01/30/95	1	2.0	**38.1**	
9501242-02	SH3d	3050A	ICP1	01/26/95	01/28/95	01/30/95	1	2.0	**39.6**	
9501242-03	SH6c	3050A	ICP1	01/26/95	01/28/95	01/30/95	1	2.0	**169**	
9501242-04	SH6d	3050A	ICP1	01/26/95	01/28/95	01/30/95	1	2.0	**127**	
9501242-05	SH7c	3050A	ICP1	01/26/95	01/28/95	01/30/95	1	2.0	**35.0**	
9501242-06	SH7d	3050A	ICP1	01/26/95	01/28/95	01/30/95	1	2.0	**63.8**	
BJ285SA	METHOD BLANK	3050A	ICP1	N/A	01/28/95	01/30/95	1	2.0	**ND**	

COMMENTS:

INCHCAPE TESTING SERVICES
ANAMETRIX LABORATORIES
(408) 432-8192
DATA REPORT

Analyte-Method: **Organic Lead-Org Pb**
Client Project Number: **35195.108**
Matrix - Units: **SOIL - mg/Kg**

Analyst: NP
Supervisor: WA

Anametrix Sample ID	Client Sample ID	Prep. Method	Instr. ID	Date Sampled	Date Prepared	Date Analyzed	D.F.	Reporting Limit	Results	Q
9501242-01	SH3c	Org Pb	AA1	01/26/95	01/28/95	01/30/95	1	0.75	**ND**	
9501242-02	SH3d	Org Pb	AA1	01/26/95	01/28/95	01/30/95	1	0.75	**ND**	
9501242-03	SH6c	Org Pb	AA1	01/26/95	01/28/95	01/30/95	1	0.75	**ND**	
9501242-04	SH6d	Org Pb	AA1	01/26/95	01/28/95	01/30/95	1	0.75	**ND**	
9501242-05	SH7c	Org Pb	AA1	01/26/95	01/28/95	01/30/95	1	0.75	**ND**	
9501242-06	SH7d	Org Pb	AA1	01/26/95	01/28/95	01/30/95	1	0.75	**1.1**	
BJ285SA	METHOD BLANK	Org Pb	AA1	N/A	01/28/95	01/30/95	1	0.75	**ND**	

COMMENTS:

INCHCAPE TESTING SERVICES
ANAMETRIX LABORATORIES
(408) 432-8192
DATA REPORT

Analyte-Method: **Hexavalent Chromium-7196**
Client Project Number: **35195.108**
Matrix - Units: **SOIL - mg/Kg**

Analyst: NP
Supervisor: [illegible]

Anametrix Sample ID	Client Sample ID	Prep. Method	Instr. ID	Date Sampled	Date Prepared	Date Analyzed	D.F.	Reporting Limit	Results	Q
9501242-01	SH3c	3060	SPE2	01/26/95	01/28/95	01/28/95	1	0.10	**ND**	
9501242-02	SH3d	3060	SPE2	01/26/95	01/28/95	01/28/95	1	0.10	**ND**	
9501242-03	SH6c	3060	SPE2	01/26/95	01/28/95	01/28/95	1	0.10	**ND**	
9501242-04	SH6d	3060	SPE2	01/26/95	01/28/95	01/28/95	1	0.10	**ND**	
9501242-05	SH7c	3060	SPE2	01/26/95	01/28/95	01/28/95	1	0.10	**ND**	
9501242-06	SH7d	3060	SPE2	01/26/95	01/28/95	01/28/95	1	0.10	**ND**	
BJ285SA	METHOD BLANK	3060	SPE2	N/A	01/28/95	01/28/95	1	0.10	**ND**	

COMMENTS:

INCHCAPE TESTING SERVICES
ANAMETRIX LABORATORIES
(408) 432-8192

LABORATORY CONTROL SAMPLE REPORT

Lab. Control Sample ID: **LJ285SA**
Anametrix WO #: **9501242**
Client Project Number: **35195.108**
Matrix: **SOIL**

Analyst: SC
Supervisor: ~~MH~~

Analyte	Prep. Method	Analytical Method	Instr. ID	Date Prepared	Date Analyzed	Dil. Factor	Units	Spike Amount	LCS Results	% Recovery	Q
Lead	3050A	6010A	ICP1	01/28/95	01/30/95	1	mg/Kg	50.0	41.7	**83.4**	
Zinc	3050A	6010A	ICP1	01/28/95	01/30/95	1	mg/Kg	50.0	43.2	**86.4**	
Organic Lead	Org Pb	Org Pb	AA1	01/28/95	01/30/95	1	mg/Kg	11.0	10.5	**95.5**	
Hexavalent Chromium	3060	7196	SPE2	01/28/95	01/28/95	1	mg/Kg	2.0	2.2	**110**	

COMMENTS:

Inchcape Testing Services
Anametrix Laboratories

SAMPLE RECEIVING CHECKLIST

WORKORDER NUMBER: 9501242 CLIENT PROJECT ID: 35195.108

COOLER

Shipping slip (airbill, etc.) present?	YES	NO	(N/A)
If YES, enter carrier name and airbill # : ____			
Custody Seal on the outside of cooler?	YES	NO	(N/A)
Condition: INTACT ____ BROKEN ____			
Temperature of sample (s) within range?	YES	(NO)	N/A
List temperature of cooler (s): 14°C			

SAMPLES

Chain of custody seal present for each container?	YES	NO	(N/A)
Condition: INTACT ____ BROKEN ____			
Samples arrived within holding time?	(YES)	NO	N/A
Samples in proper containers for methods requested?	(YES)	NO	
Condition of containers: INTACT ✓ BROKEN ____			
If NO, were samples transferred to proper container? ____			
Were VOA containers received with zero headspace?	YES	NO	(N/A)
If NO, was it noted on the chain of custody? ____			
Were container labels complete? (ID, date, time preservative, etc.)	(YES)	NO	
Were samples preserved with the proper preservative?	YES	NO	(N/A)
If NO, was the proper preservative added at time of receipt? ____			
pH check of samples required at time of receipt?	YES	(NO)	
If YES, pH checked and recorded by: ____			
Sufficient amount of sample received for methods requested?	(YES)	NO	
If NO, has the client or lab project manager been notified? ____			
Field blanks received with sample batch? # of Sets: ____	YES	NO	(N/A)
Trip blanks received with sample batch? # of Sets: ____	YES	NO	(N/A)

CHAIN OF CUSTODY

Chain of custody received with samples?	(YES)	NO
Has it been filled out completely and in ink?	(YES)	NO
Sample ID's on chain of custody agree with container labels?	(YES)	NO
Number of containers indicated on chain of custody agree with number received?	(YES)	NO
Analysis methods clearly specified?	(YES)	NO
Sampling date and time indicated?	(YES)	NO
Proper signatures of sampler, courier, sample custodian in appropriate place? with time and date?	(YES)	NO
Turnaround time? REGULAR ____ RUSH ✓		

Any NO response and/or any "BROKEN" that was checked must be detailed in the Corrective Action Form.

Sample Custodian: J.D Date: 1/27/95 Project Manager: CWL Date: 1/27/95

5104

CHAIN OF CUSTODY RECORD

9501209

10/21

WILLIG FREIGHT LINES/RON CURRAN, MANAGER

1443 LONE PALM AVENUE MODESTO, CA 95351 (209)521-6630

	ID NO.	DATE	TIME	SOIL	WATER	SAMPLING LOCATION	ANALYSES REQUESTED (1) T.D.S.	T.S.S.	pH	TPH-d			REMARKS
	#1				X	Storm Water Collection Point	XX	XX	XX	XX			Send Report to ATTN: Mr. Ron Kahele WILLIG FREIGHT LINES 123 Loomis St. San FRancisco CA 94124
(1)	# 1	1-23-95	2:45		X	South EAST Parking lot	X						
(2)	# 2	1-23-95	2:48		X	South EAST NEAR DOCK				X (Hold)			
(3)	# 3	1-23-95	2:52		X	South EAST CORNER YARD				X (Hold)			
(4)	# 4	1-23-95	2:56		X	North West Corner YARD				X (Hold)			
(5)	# 5	1-23-95	3:00		X	North WEST CORNER DOCK				X (Hold)			
(6)	# 6	1-23-95	3:02		X	North East Corner Dock		X	X				mg Sample methods were chosen at receiving per client request.
													(1) Per RWQCB Guidelines

Relinquished by: (Signature) R Curran	Date/Time 1-23 95 330 PM	Received by: (Signature) WFL Shipper
Relinquished by: (Signature)	Date/Time	Received by: (Signature)
Relinquished by: (Signature)	Date/Time	Received by: (Signature)
Relinquished by: (Signature) WFL Shipper	Date/Time 1/24/95 1330	Received for Laboratory by: (Signature)

The following MUST BE completed by the laboratory accepting samples for analysis:

1) Have all samples received for analysis been stored in ice? yes

2) Will samples remain refrigerated until analyzed? yes

3) Did any samples received for analysis have head space? N/A

Signature — Lab Tech II (Title) — 1/24/95 (Date)

Inchcape Testing Services
Anametrix Laboratories

1961 Concourse Drive
Suite E
San Jose, CA 95131
Tel: 408-452-8192
Fax: 408-452-8198

MR. WALTER HOWARD
RUST ENVIRONMENT AND INFRASTRUCTURE
12 METRO PARK ROAD
ALBANY, NY 12205

Workorder # : 9501121
Date Received : 01/17/95
Project ID : 35195.108
Purchase Order: N/A

The following samples were received at Anametrix for analysis :

ANAMETRIX ID	CLIENT SAMPLE ID
9501121- 1	PB12d.1
9501121- 2	PB12d.2
9501121- 3	PB12d.3
9501121- 4	PB13d.1
9501121- 5	PB13d.2
9501121- 6	PB13d.3
9501121- 7	PBSDSAb1
9501121- 8	PB9d.3
9501121- 9	PB3d.1
9501121-10	PB3d.2
9501121-11	PB3d.3
9501121-12	PB9d.1
9501121-13	PB9d.2
9501121-14	PBDSAb.1

This report is organized in sections according to the specific Anametrix laboratory group which performed the analysis(es) and generated the data.

The results contained within this report relate to only the sample(s) tested. Additionally, these data should be considered in their entirety and Anametrix cannot be responsible for the detachment, separation, or otherwise partial use of this report.

Anametrix is certified by the California Department of Health Services (DHS) to perform environmental testing under Certificate Number 1234.

If you have any further questions or comments on this report, please call your project manager as soon as possible. Thank you for using Inchcape Testing Services.

Corinne Khan for
Susan Kraska Yeager
Laboratory Director

01/24/95
Date

Cristina V. Rayburn
Project Manager

This report consists of 33 pages.

ANAMETRIX REPORT DESCRIPTION
GCMS

Organic Analysis Data Sheets (OADS)

OADS forms contain tabulated results for target compounds. The OADS are grouped by method and, within each method, organized sequentially in order of increasing Anametrix ID number.

Tentatively Identified Compounds (TICs)

TIC forms contain tabulated results for non-target compounds detected in GC/MS analyses. TICs must be requested at the time samples are submitted at Anametrix. TIC forms immediately follow the OADS form for each sample. If TICs are requested but not found, then TIC forms will not be included with the report.

Surrogate Recovery Summary (SRS)

SRS forms contain quality assurance data. An SRS form will be printed for each method, if the method requires surrogate compounds. They will list surrogate percent recoveries for all samples and any method blanks. Any surrogate recovery outside the established limits will be flagged with an "*", and the total number of surrogates outside the limits will be listed in the column labelled "Total Out".

Matrix Spike Recovery Form (MSR)

MSR forms contain quality assurance data. They summarize percent recovery and relative percent difference information for matrix spikes and matrix spike duplicates. This information is a statement of both accuracy and precision. Any percent recovery or relative percent difference outside established limits will be flagged with an "*", and the total number outside the limits will be listed at the bottom of the page. Not all reports will contain an MSR form.

Qualifiers

Anametrix uses several data qualifiers (Q) in it's report forms. These qualifiers give additional information on the compounds reported. They should help a data reviewer to verify the integrity of the analytical results. The following is a list of qualifiers and their meanings:

- U - Indicates that the compound was analyzed for, but was not detected at or above the specified reporting limit.
- B - Indicates that the compound was detected in the associated method blank.
- J - Indicates that the compound was detected at an amount below the specified reporting limit. Consequently, the amount should be considered an approximate value. Tentatively identified compounds will always have a "J" qualifier because they are not included in the instrument calibration.
- E - Indicates that the amount reported exceeded the linear range of the instrument calibration.
- D - Indicates that the compound was detected in an analysis performed at a secondary dilution.
- A - Indicates that the tentatively identified compound is a suspected aldol condensation product. This is common in EPA Method 8270 soil analyses.

Absence of a qualifier indicates that the compound was detected at a concentration at or above the specified reporting limit.

REPORTING CONVENTIONS

- Due to a size limitation in our data processing step, only the first eight (8) characters of your project ID and sample ID will be printed on the report forms. However, the report cover letter and report summary pages display up to twenty (20) characters of your project and sample IDs.
- Amounts reported are gross values, i.e., not corrected for method blank contamination.

REPORT SUMMARY
ANAMETRIX, INC. (408)432-8192

MR. WALTER HOWARD
RUST ENVIRONMENT AND INFRASTRUCTURE
12 METRO PARK ROAD
ALBANY, NY 12205

Workorder # : 9501121
Date Received : 01/17/95
Project ID : 35195.108
Purchase Order: N/A
Department : GCMS
Sub-Department: GCMS

SAMPLE INFORMATION:

ANAMETRIX SAMPLE ID	CLIENT SAMPLE ID	MATRIX	DATE SAMPLED	METHOD
9501121- 9	PB3d.1	SOIL	01/16/95	8260
9501121-10	PB3d.2	SOIL	01/16/95	8260
9501121-11	PB3d.3	SOIL	01/16/95	8260
9501121- 9	PB3d.1	SOIL	01/16/95	8270
9501121-10	PB3d.2	SOIL	01/16/95	8270
9501121-11	PB3d.3	SOIL	01/16/95	8270

REPORT SUMMARY
ANAMETRIX, INC. (408)432-8192

MR. WALTER HOWARD
RUST ENVIRONMENT AND INFRASTRUCTURE
12 METRO PARK ROAD
ALBANY, NY 12205

Workorder # : 9501121
Date Received : 01/17/95
Project ID : 35195.108
Purchase Order: N/A
Department : GCMS
Sub-Department: GCMS

QA/QC SUMMARY :

- All holding times have been met for the analyses reported in this section.
- No QA/QC problems for EPA Method 8270 analysis.

Department Supervisor 1/20/95 Date

Chemist 1-20-95 Date

ORGANIC ANALYSIS DATA SHEET -- EPA METHOD 8270
ANAMETRIX, INC. (408)432-8192

Project ID : 35195.10
Sample ID : PB3d.1
Matrix : SOIL
Date Sampled : 1/16/95
Date Extracted : 1/18/95
Amount Extracted : 30.0 g
Date Analyzed : 1/20/95
Instrument ID : MSD4

Anametrix ID : 9501121-09
Analyst : MS
Supervisor : DC

Dilution Factor : 2.0
Conc. Units : ug/Kg

CAS No.	COMPOUND NAME	REPORTING LIMIT	AMOUNT DETECTED	Q
62-75-9	N-Nitrosodimethylamine	670.	ND	U
108-95-2	Phenol	670.	ND	U
4165-61-1	Aniline	670.	ND	U
111-44-4	bis(2-Chloroethyl)ether	670.	ND	U
95-57-8	2-Chlorophenol	670.	ND	U
541-73-1	1,3-Dichlorobenzene	670.	ND	U
106-46-7	1,4-Dichlorobenzene	670.	ND	U
100-51-6	Benzyl Alcohol	670.	ND	U
95-48-7	2-Methylphenol	670.	ND	U
95-50-1	1,2-Dichlorobenzene	670.	ND	U
108-60-1	2,2'-oxybis(1-Chloropropane)	670.	ND	U
106-44-5	4-Methylphenol	670.	ND	U
621-64-7	N-Nitroso-di-n-propylamine	670.	ND	U
67-72-1	Hexachloroethane	670.	ND	U
98-95-3	Nitrobenzene	670.	ND	U
78-59-1	Isophorone	670.	ND	U
105-67-9	2,4-Dimethylphenol	670.	ND	U
88-75-5	2-Nitrophenol	670.	ND	U
65-85-0	Benzoic Acid	3300.	ND	U
111-91-1	bis(2-Chloroethoxy)methane	670.	ND	U
120-83-2	2,4-Dichlorophenol	670.	ND	U
120-82-1	1,2,4-Trichlorobenzene	670.	ND	U
91-20-3	Naphthalene	670.	4100.	
106-47-8	4-Chloroaniline	670.	ND	U
87-68-3	Hexachlorobutadiene	670.	ND	U
59-50-7	4-Chloro-3-methylphenol	670.	ND	U
91-57-6	2-Methylnaphthalene	670.	ND	U
77-47-4	Hexachlorocyclopentadiene	670.	ND	U
88-06-2	2,4,6-Trichlorophenol	670.	ND	U
95-95-4	2,4,5-Trichlorophenol	3300.	ND	U
91-58-7	2-Chloronaphthalene	670.	ND	U
88-74-4	2-Nitroaniline	3300.	ND	U
131-11-3	Dimethylphthalate	670.	ND	U

ORGANIC ANALYSIS DATA SHEET -- EPA METHOD 8270
ANAMETRIX, INC. (408)432-8192

Project ID : 35195.10
Sample ID : PB3d.1
Matrix : SOIL
Date Sampled : 1/16/95
Date Extracted : 1/18/95
Amount Extracted : 30.0 g
Date Analyzed : 1/20/95
Instrument ID : MSD4

Anametrix ID : 9501121-09
Analyst : [illegible]
Supervisor : [illegible]

Dilution Factor : 2.0
Conc. Units : ug/Kg

CAS No.	COMPOUND NAME	REPORTING LIMIT	AMOUNT DETECTED	Q
606-20-2	2,6-Dinitrotoluene	670.	ND	U
208-96-8	Acenaphthylene	670.	ND	U
99-09-2	3-Nitroaniline	3300.	ND	U
83-32-9	Acenaphthene	670.	ND	U
51-28-5	2,4-Dinitrophenol	3300.	ND	U
100-02-7	4-Nitrophenol	3300.	ND	U
132-64-9	Dibenzofuran	670.	ND	U
121-14-2	2,4-Dinitrotoluene	670.	ND	U
84-66-2	Diethylphthalate	670.	ND	U
7005-72-3	4-Chlorophenyl-phenylether	670.	ND	U
86-73-7	Fluorene	670.	ND	U
100-01-6	4-Nitroaniline	3300.	ND	U
534-52-1	4,6-Dinitro-2-methylphenol	3300.	ND	U
86-30-6	N-Nitrosodiphenylamine (1)	670.	ND	U
103-33-3	Azobenzene	670.	ND	U
101-55-3	4-Bromophenyl-phenylether	670.	ND	U
118-74-1	Hexachlorobenzene	670.	ND	U
87-86-5	Pentachlorophenol	3300.	ND	U
85-01-8	Phenanthrene	670.	ND	U
120-12-7	Anthracene	670.	ND	U
84-74-2	Di-n-butylphthalate	670.	ND	U
206-44-0	Fluoranthene	670.	ND	U
92-87-5	Benzidine	670.	ND	U
129-00-0	Pyrene	670.	ND	U
85-68-7	Butylbenzylphthalate	670.	ND	U
117-81-7	bis(2-Ethylhexyl)phthalate	670.	ND	U
91-94-1	3,3'-Dichlorobenzidine	1300.	ND	U
56-55-3	Benzo(a)anthracene	670.	ND	U
218-01-9	Chrysene	670.	ND	U
117-84-0	Di-n-octylphthalate	670.	ND	U
205-99-2	Benzo(b)fluoranthene	670.	ND	U
207-08-9	Benzo(k)fluoranthene	670.	ND	U
50-32-8	Benzo(a)pyrene	670.	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	670.	ND	U
53-70-3	Dibenz(a,h)anthracene	670.	ND	U
191-24-2	Benzo(g,h,i)perylene	670.	ND	U

ORGANIC ANALYSIS DATA SHEET -- EPA METHOD 8270
ANAMETRIX, INC. (408)432-8192

Project ID : 35195.10
Sample ID : PB3d.2
Matrix : SOIL
Date Sampled : 1/16/95
Date Extracted : 1/18/95
Amount Extracted : 30.0 g
Date Analyzed : 1/19/95
Instrument ID : MSD4

Anametrix ID : 9501121-10
Analyst : MCT
Supervisor : DLS

Dilution Factor : 1.0
Conc. Units : ug/Kg

CAS No.	COMPOUND NAME	REPORTING LIMIT	AMOUNT DETECTED	Q
62-75-9	N-Nitrosodimethylamine	330.	ND	U
108-95-2	Phenol	330.	ND	U
4165-61-1	Aniline	330.	ND	U
111-44-4	bis(2-Chloroethyl)ether	330.	ND	U
95-57-8	2-Chlorophenol	330.	ND	U
541-73-1	1,3-Dichlorobenzene	330.	ND	U
106-46-7	1,4-Dichlorobenzene	330.	ND	U
100-51-6	Benzyl Alcohol	330.	ND	U
95-48-7	2-Methylphenol	330.	ND	U
95-50-1	1,2-Dichlorobenzene	330.	ND	U
108-60-1	2,2'-oxybis(1-Chloropropane)	330.	ND	U
106-44-5	4-Methylphenol	330.	ND	U
621-64-7	N-Nitroso-di-n-propylamine	330.	ND	U
67-72-1	Hexachloroethane	330.	ND	U
98-95-3	Nitrobenzene	330.	ND	U
78-59-1	Isophorone	330.	ND	U
105-67-9	2,4-Dimethylphenol	330.	ND	U
88-75-5	2-Nitrophenol	330.	ND	U
65-85-0	Benzoic Acid	1700.	ND	U
111-91-1	bis(2-Chloroethoxy)methane	330.	ND	U
120-83-2	2,4-Dichlorophenol	330.	ND	U
120-82-1	1,2,4-Trichlorobenzene	330.	ND	U
91-20-3	Naphthalene	330.	760.	
106-47-8	4-Chloroaniline	330.	ND	U
87-68-3	Hexachlorobutadiene	330.	ND	U
59-50-7	4-Chloro-3-methylphenol	330.	ND	U
91-57-6	2-Methylnaphthalene	330.	ND	U
77-47-4	Hexachlorocyclopentadiene	330.	ND	U
88-06-2	2,4,6-Trichlorophenol	330.	ND	U
95-95-4	2,4,5-Trichlorophenol	1700.	ND	U
91-58-7	2-Chloronaphthalene	330.	ND	U
88-74-4	2-Nitroaniline	1700.	ND	U
131-11-3	Dimethylphthalate	330.	ND	U

ORGANIC ANALYSIS DATA SHEET -- EPA METHOD 8270
ANAMETRIX, INC. (408)432-8192

Project ID : 35195.10
Sample ID : PB3d.2
Matrix : SOIL
Date Sampled : 1/16/95
Date Extracted : 1/18/95
Amount Extracted : 30.0 g
Date Analyzed : 1/19/95
Instrument ID : MSD4

Anametrix ID : 9501121-10
Analyst : [illegible]
Supervisor : [illegible]

Dilution Factor : 1.0
Conc. Units : ug/Kg

CAS No.	COMPOUND NAME	REPORTING LIMIT	AMOUNT DETECTED	Q
606-20-2	2,6-Dinitrotoluene	330.	ND	U
208-96-8	Acenaphthylene	330.	ND	U
99-09-2	3-Nitroaniline	1700.	ND	U
83-32-9	Acenaphthene	330.	ND	U
51-28-5	2,4-Dinitrophenol	1700.	ND	U
100-02-7	4-Nitrophenol	1700.	ND	U
132-64-9	Dibenzofuran	330.	ND	U
121-14-2	2,4-Dinitrotoluene	330.	ND	U
84-66-2	Diethylphthalate	330.	ND	U
7005-72-3	4-Chlorophenyl-phenylether	330.	ND	U
86-73-7	Fluorene	330.	ND	U
100-01-6	4-Nitroaniline	1700.	ND	U
534-52-1	4,6-Dinitro-2-methylphenol	1700.	ND	U
86-30-6	N-Nitrosodiphenylamine (1)	330.	ND	U
103-33-3	Azobenzene	330.	ND	U
101-55-3	4-Bromophenyl-phenylether	330.	ND	U
118-74-1	Hexachlorobenzene	330.	ND	U
87-86-5	Pentachlorophenol	1700.	ND	U
85-01-8	Phenanthrene	330.	ND	U
120-12-7	Anthracene	330.	ND	U
84-74-2	Di-n-butylphthalate	330.	ND	U
206-44-0	Fluoranthene	330.	ND	U
92-87-5	Benzidine	330.	ND	U
129-00-0	Pyrene	330.	ND	U
85-68-7	Butylbenzylphthalate	330.	ND	U
117-81-7	bis(2-Ethylhexyl)phthalate	330.	ND	U
91-94-1	3,3'-Dichlorobenzidine	670.	ND	U
56-55-3	Benzo(a)anthracene	330.	ND	U
218-01-9	Chrysene	330.	ND	U
117-84-0	Di-n-octylphthalate	330.	ND	U
205-99-2	Benzo(b)fluoranthene	330.	ND	U
207-08-9	Benzo(k)fluoranthene	330.	ND	U
50-32-8	Benzo(a)pyrene	330.	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	330.	ND	U
53-70-3	Dibenz(a,h)anthracene	330.	ND	U
191-24-2	Benzo(g,h,i)perylene	330.	ND	U

ORGANIC ANALYSIS DATA SHEET -- EPA METHOD 8270
ANAMETRIX, INC. (408)432-8192

Project ID : 35195.10
Sample ID : PB3d.3
Matrix : SOIL
Date Sampled : 1/16/95
Date Extracted : 1/18/95
Amount Extracted : 30.0 g
Date Analyzed : 1/19/95
Instrument ID : MSD4

Anametrix ID : 9501121-11
Analyst : MS
Supervisor : DS

Dilution Factor : 1.0
Conc. Units : ug/Kg

CAS No.	COMPOUND NAME	REPORTING LIMIT	AMOUNT DETECTED	Q
62-75-9	N-Nitrosodimethylamine	330.	ND	U
108-95-2	Phenol	330.	ND	U
4165-61-1	Aniline	330.	ND	U
111-44-4	bis(2-Chloroethyl)ether	330.	ND	U
95-57-8	2-Chlorophenol	330.	ND	U
541-73-1	1,3-Dichlorobenzene	330.	ND	U
106-46-7	1,4-Dichlorobenzene	330.	ND	U
100-51-6	Benzyl Alcohol	330.	ND	U
95-48-7	2-Methylphenol	330.	ND	U
95-50-1	1,2-Dichlorobenzene	330.	ND	U
108-60-1	2,2'-oxybis(1-Chloropropane)	330.	ND	U
106-44-5	4-Methylphenol	330.	ND	U
621-64-7	N-Nitroso-di-n-propylamine	330.	ND	U
67-72-1	Hexachloroethane	330.	ND	U
98-95-3	Nitrobenzene	330.	ND	U
78-59-1	Isophorone	330.	ND	U
105-67-9	2,4-Dimethylphenol	330.	ND	U
88-75-5	2-Nitrophenol	330.	ND	U
65-85-0	Benzoic Acid	1700.	ND	U
111-91-1	bis(2-Chloroethoxy)methane	330.	ND	U
120-83-2	2,4-Dichlorophenol	330.	ND	U
120-82-1	1,2,4-Trichlorobenzene	330.	ND	U
91-20-3	Naphthalene	330.	ND	U
106-47-8	4-Chloroaniline	330.	ND	U
87-68-3	Hexachlorobutadiene	330.	ND	U
59-50-7	4-Chloro-3-methylphenol	330.	ND	U
91-57-6	2-Methylnaphthalene	330.	ND	U
77-47-4	Hexachlorocyclopentadiene	330.	ND	U
88-06-2	2,4,6-Trichlorophenol	330.	ND	U
95-95-4	2,4,5-Trichlorophenol	1700.	ND	U
91-58-7	2-Chloronaphthalene	330.	ND	U
88-74-4	2-Nitroaniline	1700.	ND	U
131-11-3	Dimethylphthalate	330.	ND	U

ORGANIC ANALYSIS DATA SHEET -- EPA METHOD 8270
ANAMETRIX, INC. (408)432-8192

Project ID : 35195.10
Sample ID : PB3d.3
Matrix : SOIL
Date Sampled : 1/16/95
Date Extracted : 1/18/95
Amount Extracted : 30.0 g
Date Analyzed : 1/19/95
Instrument ID : MSD4

Anametrix ID : 9501121-11
Analyst : MET
Supervisor : DLS

Dilution Factor : 1.0
Conc. Units : ug/Kg

CAS No.	COMPOUND NAME	REPORTING LIMIT	AMOUNT DETECTED	Q
606-20-2	2,6-Dinitrotoluene	330.	ND	U
208-96-8	Acenaphthylene	330.	ND	U
99-09-2	3-Nitroaniline	1700.	ND	U
83-32-9	Acenaphthene	330.	ND	U
51-28-5	2,4-Dinitrophenol	1700.	ND	U
100-02-7	4-Nitrophenol	1700.	ND	U
132-64-9	Dibenzofuran	330.	ND	U
121-14-2	2,4-Dinitrotoluene	330.	ND	U
84-66-2	Diethylphthalate	330.	ND	U
7005-72-3	4-Chlorophenyl-phenylether	330.	ND	U
86-73-7	Fluorene	330.	ND	U
100-01-6	4-Nitroaniline	1700.	ND	U
534-52-1	4,6-Dinitro-2-methylphenol	1700.	ND	U
86-30-6	N-Nitrosodiphenylamine (1)	330.	ND	U
103-33-3	Azobenzene	330.	ND	U
101-55-3	4-Bromophenyl-phenylether	330.	ND	U
118-74-1	Hexachlorobenzene	330.	ND	U
87-86-5	Pentachlorophenol	1700.	ND	U
85-01-8	Phenanthrene	330.	ND	U
120-12-7	Anthracene	330.	ND	U
84-74-2	Di-n-butylphthalate	330.	ND	U
206-44-0	Fluoranthene	330.	ND	U
92-87-5	Benzidine	330.	ND	U
129-00-0	Pyrene	330.	ND	U
85-68-7	Butylbenzylphthalate	330.	ND	U
117-81-7	bis(2-Ethylhexyl)phthalate	330.	ND	U
91-94-1	3,3'-Dichlorobenzidine	670.	ND	U
56-55-3	Benzo(a)anthracene	330.	ND	U
218-01-9	Chrysene	330.	ND	U
117-84-0	Di-n-octylphthalate	330.	ND	U
205-99-2	Benzo(b)fluoranthene	330.	ND	U
207-08-9	Benzo(k)fluoranthene	330.	ND	U
50-32-8	Benzo(a)pyrene	330.	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	330.	ND	U
53-70-3	Dibenz(a,h)anthracene	330.	ND	U
191-24-2	Benzo(g,h,i)perylene	330.	ND	U

ORGANIC ANALYSIS DATA SHEET -- EPA METHOD 8270
ANAMETRIX, INC. (408)432-8192

Project ID : 35195.
Sample ID : SBLKUS
Matrix : SOIL
Date Sampled : 0/ 0/ 0
Date Extracted : 1/18/95
Amount Extracted : 30.0 g
Date Analyzed : 1/19/95
Instrument ID : MSD4

Anametrix ID : BJ18H1B1
Analyst : [illegible]
Supervisor : [illegible]

Dilution Factor : 1.0
Conc. Units : ug/Kg

CAS No.	COMPOUND NAME	REPORTING LIMIT	AMOUNT DETECTED	Q
62-75-9	N-Nitrosodimethylamine	330.	ND	U
108-95-2	Phenol	330.	ND	U
4165-61-1	Aniline	330.	ND	U
111-44-4	bis(2-Chloroethyl)ether	330.	ND	U
95-57-8	2-Chlorophenol	330.	ND	U
541-73-1	1,3-Dichlorobenzene	330.	ND	U
106-46-7	1,4-Dichlorobenzene	330.	ND	U
100-51-6	Benzyl Alcohol	330.	ND	U
95-48-7	2-Methylphenol	330.	ND	U
95-50-1	1,2-Dichlorobenzene	330.	ND	U
108-60-1	2,2'-oxybis(1-Chloropropane)	330.	ND	U
106-44-5	4-Methylphenol	330.	ND	U
621-64-7	N-Nitroso-di-n-propylamine	330.	ND	U
67-72-1	Hexachloroethane	330.	ND	U
98-95-3	Nitrobenzene	330.	ND	U
78-59-1	Isophorone	330.	ND	U
105-67-9	2,4-Dimethylphenol	330.	ND	U
88-75-5	2-Nitrophenol	330.	ND	U
65-85-0	Benzoic Acid	1700.	ND	U
111-91-1	bis(2-Chloroethoxy)methane	330.	ND	U
120-83-2	2,4-Dichlorophenol	330.	ND	U
120-82-1	1,2,4-Trichlorobenzene	330.	ND	U
91-20-3	Naphthalene	330.	ND	U
106-47-8	4-Chloroaniline	330.	ND	U
87-68-3	Hexachlorobutadiene	330.	ND	U
59-50-7	4-Chloro-3-methylphenol	330.	ND	U
91-57-6	2-Methylnaphthalene	330.	ND	U
77-47-4	Hexachlorocyclopentadiene	330.	ND	U
88-06-2	2,4,6-Trichlorophenol	330.	ND	U
95-95-4	2,4,5-Trichlorophenol	1700.	ND	U
91-58-7	2-Chloronaphthalene	330.	ND	U
88-74-4	2-Nitroaniline	1700.	ND	U
131-11-3	Dimethylphthalate	330.	ND	U

ORGANIC ANALYSIS DATA SHEET -- EPA METHOD 8270
ANAMETRIX, INC. (408)432-8192

Project ID : 35195.
Sample ID : SBLKUS
Matrix : SOIL
Date Sampled : 0/ 0/ 0
Date Extracted : 1/18/95
Amount Extracted : 30.0 g
Date Analyzed : 1/19/95
Instrument ID : MSD4

Anametrix ID : BJ18H1B1
Analyst : [illegible]
Supervisor : [illegible]

Dilution Factor : 1.0
Conc. Units : ug/Kg

CAS No.	COMPOUND NAME	REPORTING LIMIT	AMOUNT DETECTED	Q
606-20-2	2,6-Dinitrotoluene	330.	ND	U
208-96-8	Acenaphthylene	330.	ND	U
99-09-2	3-Nitroaniline	1700.	ND	U
83-32-9	Acenaphthene	330.	ND	U
51-28-5	2,4-Dinitrophenol	1700.	ND	U
100-02-7	4-Nitrophenol	1700.	ND	U
132-64-9	Dibenzofuran	330.	ND	U
121-14-2	2,4-Dinitrotoluene	330.	ND	U
84-66-2	Diethylphthalate	330.	ND	U
7005-72-3	4-Chlorophenyl-phenylether	330.	ND	U
86-73-7	Fluorene	330.	ND	U
100-01-6	4-Nitroaniline	1700.	ND	U
534-52-1	4,6-Dinitro-2-methylphenol	1700.	ND	U
86-30-6	N-Nitrosodiphenylamine (1)	330.	ND	U
103-33-3	Azobenzene	330.	ND	U
101-55-3	4-Bromophenyl-phenylether	330.	ND	U
118-74-1	Hexachlorobenzene	330.	ND	U
87-86-5	Pentachlorophenol	1700.	ND	U
85-01-8	Phenanthrene	330.	ND	U
120-12-7	Anthracene	330.	ND	U
84-74-2	Di-n-butylphthalate	330.	ND	U
206-44-0	Fluoranthene	330.	ND	U
92-87-5	Benzidine	330.	ND	U
129-00-0	Pyrene	330.	ND	U
85-68-7	Butylbenzylphthalate	330.	ND	U
117-81-7	bis(2-Ethylhexyl)phthalate	330.	ND	U
91-94-1	3,3'-Dichlorobenzidine	670.	ND	U
56-55-3	Benzo(a)anthracene	330.	ND	U
218-01-9	Chrysene	330.	ND	U
117-84-0	Di-n-octylphthalate	330.	ND	U
205-99-2	Benzo(b)fluoranthene	330.	ND	U
207-08-9	Benzo(k)fluoranthene	330.	ND	U
50-32-8	Benzo(a)pyrene	330.	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	330.	ND	U
53-70-3	Dibenz(a,h)anthracene	330.	ND	U
191-24-2	Benzo(g,h,i)perylene	330.	ND	U

SURROGATE RECOVERY SUMMARY -- EPA METHOD 8270
ANAMETRIX, INC. (408)432-8192

Project ID : 35195.10
Matrix : SOLID

Anametrix ID : 9501121
Analyst : MLT
Supervisor : DCS

	SAMPLE ID	SU1	SU2	SU3	SU4	SU5	SU6
1	SBLKUS	74	74	80	93	81	97
2	SLCST9	73	72	79	94	83	94
3	PB3d.2	69	66	75	91	83	94
4	PB3d.3	72	71	76	87	81	93
5	PB3d.MS	76	74	80	87	82	95
6	PB3d.MSD	75	70	78	91	82	91
7	PB3d.1	69	76	99	102	84	107
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
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19							
20							
21							
22							
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24							
25							
26							
27							
28							
29							
30							

	QC LIMITS
SU1 = 2-Fluorophenol	(25-121)
SU2 = Phenol-d5	(24-113)
SU3 = Nitrobenzene-d5	(23-120)
SU4 = 2-Fluorobiphenyl	(30-115)
SU5 = 2,4,6-Tribromophenol	(19-122)
SU6 = Terphenyl-d14	(18-137)

* Values outside of Anametrix QC limits

MATRIX SPIKE RECOVERY FORM -- EPA METHOD 8270
ANAMETRIX, INC. (408)432-8192

Project ID : 35195.10
Sample ID : PB3d.3
Matrix : SOIL
Date Sampled : 1/16/95
Date Extracted : 1/18/95
Date Analyzed : 1/19/95
Instrument ID : MSD4

Anametrix ID : 9501121-11
Analyst : MGT
Supervisor : DS

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	%REC LIMITS
Phenol	2500.	0.	1984.	79	14-118
2-Chlorophenol	2500.	0.	1897.	76	31-113
1,4-Dichlorobenzene	1667.	0.	1192.	72	32-104
N-Nitroso-di-n-prop.(1)	1667.	0.	1259.	76	29-139
1,2,4-Trichlorobenzene	1667.	0.	1251.	75	33-114
4-Chloro-3-methylphenol	2500.	0.	2039.	82	32-125
Acenaphthene	1667.	0.	1287.	77	34-115
4-Nitrophenol	2500.	0.	2571.	103	32-129
2,4-Dinitrotoluene	1667.	0.	1260.	76	20-126
Pentachlorophenol	2500.	0.	2258.	90	29-150
Pyrene	1667.	0.	1423.	85	28-143

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	RPD LIMITS	%REC LIMITS
Phenol	2500.	1891.	76	5	35	14-118
2-Chlorophenol	2500.	1939.	78	2	50	31-113
1,4-Dichlorobenzene	1667.	1224.	73	3	27	32-104
N-Nitroso-di-n-prop.(1)	1667.	1212.	73	4	38	29-139
1,2,4-Trichlorobenzene	1667.	1271.	76	2	23	33-114
4-Chloro-3-methylphenol	2500.	1890.	76	8	33	32-125
Acenaphthene	1667.	1315.	79	2	19	34-115
4-Nitrophenol	2500.	2476.	99	4	50	32-129
2,4-Dinitrotoluene	1667.	1209.	73	4	47	20-126
Pentachlorophenol	2500.	2169.	87	4	47	29-150
Pyrene	1667.	1359.	82	5	36	28-143

* Value is outside of Anametrix QC limits

RPD: 0 out of 11 outside limits
Spike Recovery: 0 out of 22 outside limits

LABORATORY CONTROL SPIKE RECOVERY FORM --- EPA METHOD 8270
ANAMETRIX, INC. (408)432-8192

Project/Case	: 35195.108	Anametrix ID	: MJ18H1B1
Matrix	: SOIL	Analyst	: MCT
Date Sampled	: 00/00/00	Supervisor	: DCS
Date Extracted	: 01/18/95	SDG/Batch	: 1121
Date Analyzed	: 01/19/95		
Instrument ID	: MSD4	Level	: LOW
		Sample I.D.	: SLCST9

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	%REC LIMITS
Phenol	2500	0	1900	76	35-97
2-Chlorophenol	2500	0	1900	76	37-99
1,4-Dichlorobenzene	1700	0	1200	71	41-87
N-nitroso-di-n-propylamine	1700	0	1200	71	34-102
1,2,4-Trichlorobenzene	1700	0	1300	76	41-94
4-Chloro-3-methylphenol	2500	0	1900	76	38-101
Acenaphthene	1700	0	1400	82	40-97
4-Nitrophenol	2500	0	2300	92	24-106
2,4-Dinitrotoluene	1700	0	1200	71	35-98
Pentachlorophenol	2500	0	2300	92	25-121
Pyrene	1700	0	1400	82	42-112

TOTAL PETROLEUM HYDROCARBONS AS GASOLINE

INCHCAPE TESTING SERVICES - ANAMETRIX

(408) 432-8192

DATA SUMMARY FORM

Anametrix Workorder	9501121	Client Project ID:	35195.108
Matrix:	SOIL	Date Released:	1/23/95
Instrument ID:	HP12	Concentration Units:	mg/Kg

Anametrix ID	Client ID	Date Sampled	Date Analyzed	Dilution Factor	Reporting Limit	Amount Found	Surrogate Recovery
9501121-09	PB3d.1	1/16/95	1/19/95	1000	50	ND	140%
9501121-10	PB3d.2	1/16/95	1/19/95	1000	50	ND	128%
9501121-11	PB3d.3	1/16/95	1/19/95	2	0.50	ND	104%
BJ1901E1	Method Blank	0/0/0	1/19/95	1	0.50	ND	112%

ND: Not detected at or above the reporting limit for the method.

TPHg: Total Petroleum Hydrocarbons as gasoline is determined by GC/FID (modified EPA Method 8015) following sample purge and trap by EPA Method 5030

Surrogate recovery quality control limits for p-Bromofluorobenzene are 53-147%.

All testing procedures follow California Department of Health Services approved methods.

Bruce Shen 1/23/95
Analyst Date

Cheryl Baeman 1/22/95
Supervisor Date

TOTAL PETROLEUM HYDROCARBONS AS MINERAL SPIRITS

INCHCAPE TESTING SERVICES - ANAMETRIX

(408) 432-8192

DATA SUMMARY FORM

Anametrix Workorder	9501121	Client Project ID:	35195.108
Matrix:	SOIL	Date Released:	1/23/95
Instrument ID	HP12	Concentration Units:	mg/Kg

Anametrix ID	Client ID	Date Sampled	Date Analyzed	Dilution Factor	Reporting Limit	Amount Found	Surrogate Recovery
9501121-09	PB3d.1	1/16/95	1/19/95	1000	50	490	140%
9501121-10	PB3d.2	1/16/95	1/19/95	1000	50	250	128%
9501121-11	PB3d.3	1/16/95	1/19/95	2	0.50	ND	104%
BJ1901E1	Method Blank	0/0/0	1/19/95	1	0.50	ND	112%

ND: Not detected at or above the reporting limit for the method.

TPHg: Total Petroleum Hydrocarbons as mineral spirits is determined by GC/FID (modified EPA Method 8015) following sample purge and trap by EPA Method 5030

Surrogate recovery quality control limits for p-Bromofluorobenzene are 53-147%.

All testing procedures follow California Department of Health Services approved methods

Analyst 1/23/95 Date

Supervisor 1/23/95 Date

TOTAL PETROLEUM HYDROCARBONS AS MINERAL SPIRITS

INCHCAPE TESTING SERVICES - ANAMETRIX

(408) 432-8192

MATRIX SPIKE RECOVERY REPORT

Client Project ID	35195.108	Anametrix ID:	9501121-11
Client Sample ID	PB3d.3	Date Released:	1/23/95
Date Sampled:	1/16/95	Instrument ID:	HP12
Date Analyzed:	1/19/95	Matrix:	SOIL
		Concentration Units:	mg/Kg

COMPOUND NAME	SPIKE AMT	SAMPLE CONC	MS CONC	% REC MS	MSD CONC	%REC MSD	RPD
Mineral Spirits	10	0	0.73	73%	0.66	66%	-10%
p-Bromofluorobenzene				144%		145%	

Quality control limits for MS/MSD recovery are 48-149%

Quality control limits for RPD(relative percent difference) are +/- 30%.

Quality control limits for p-Bromofluorobenzene recovery are 53-147%.

TOTAL PETROLEUM HYDROCARBONS AS MINERAL SPIRITS

INCHCAPE TESTING SERVICES - ANAMETRIX

(408) 432-8192

LABORATORY CONTROL SAMPLE REPORT

Client Project ID:	35195.108	Anametrix ID:	MJ1901E1
Matrix:	SOIL	Date Released:	1/23/95
Date Analyzed:	1/19/95	Instrument ID:	HP12
		Concentration Units:	mg/Kg

COMPOUND NAME	SPIKE AMT	LCS CONC	%REC LCS
Mineral Spirits	0.50	0.45	90%
p-Bromofluorobenzene			128%

Quality control limits for LCS recovery are 58-130%.

Quality control limits for p-Bromofluorobenzene recovery are 53-147%.

REPORT SUMMARY
ANAMETRIX, INC. (408)432-8192

MR. WALTER HOWARD
RUST ENVIRONMENT AND INFRASTRUCTURE
12 METRO PARK ROAD
ALBANY, NY 12205

Workorder # : 9501121
Date Received : 01/17/95
Project ID : 35195.108
Purchase Order: N/A
Department : GC
Sub-Department: TPH

SAMPLE INFORMATION:

ANAMETRIX SAMPLE ID	CLIENT SAMPLE ID	MATRIX	DATE SAMPLED	METHOD
9501121- 9	PB3d.1	SOIL	01/16/95	TPHd
9501121-10	PB3d.2	SOIL	01/16/95	TPHd
9501121-11	PB3d.3	SOIL	01/16/95	TPHd
9501121- 9	PB3d.1	SOIL	01/16/95	TPHg
9501121-10	PB3d.2	SOIL	01/16/95	TPHg
9501121-11	PB3d.3	SOIL	01/16/95	TPHg

REPORT SUMMARY
ANAMETRIX, INC. (408)432-8192

MR. WALTER HOWARD
RUST ENVIRONMENT AND INFRASTRUCTURE
12 METRO PARK ROAD
ALBANY, NY 12205

Workorder # : 9501121
Date Received : 01/17/95
Project ID : 35195.108
Purchase Order: N/A
Department : GC
Sub-Department: TPH

QA/QC SUMMARY :

- All holding times have been met for the analyses reported in this section.
- The concentrations reported as diesel for samples PB3d.1 and PB3d.2 are due to the presence of a combination of a heavier petroleum product of hydrocarbon range C18-C36 (possibly motor oil) and a lighter petroleum product of hydrocarbon range C6-C12 (possibly aged gasoline or mineral spirits).

Cheryl Balmer 1/23/95
Department Supervisor Date

Doshi 1/23/95
Chemist Date

TOTAL PETROLEUM HYDROCARBONS AS DIESEL

INCHCAPE TESTING SERVICES - ANAMETRIX

(408) 432-8192

DATA SUMMARY FORM

Anametrix Workorder	9501121	Client Project ID:	35195.1
Matrix:	SOIL	Date Released:	1/23/95
Date Extracted:	1/18/95	Concentration Units:	mg/Kg
Instrument ID:	HP9		

Anametrix ID	Client ID	Date Sampled	Date Analyzed	Dilution Factor	Reporting Limit	Amount Found	Surrogate Recovery
9501121-09	PB3d.1	1/16/95	1/20/95	10	100	530	78%
9501121-10	PB3d.2	1/16/95	1/20/95	10	100	390	72%
9501121-11	PB3d 3	1/16/95	1/20/95	1	10	ND	79%
BJ18H1F8	Method Blank	0/0/0	1/19/95	1	10	ND	79%

ND: Not detected at or above the reporting limit for the method.

TPHd: Total Petroleum Hydrocarbons as C10-C28 is determined by GC/FID (modified EPA Method 8015) following sample extraction by EPA Method 3550.

Surrogate recovery quality control limits for o-terphenyl are 64-109%.

All testing procedures follow California Department of Health Services approved methods.

Doshi 1/23/94

Analyst Date

Cheryl Baeman 1/23/95

Supervisor Date

TOTAL PETROLEUM HYDROCARBONS AS DIESEL

INCHCAPE TESTING SERVICES - ANAMETRIX

(408) 432-8192

LABORATORY CONTROL SAMPLE REPORT

Client Project ID:	35195.1	Anametrix ID:	MJ18H1F8
Matrix.	SOIL	Date Released:	1/23/95
Date Extracted:	1/18/95	Instrument ID:	HP9
Date Analyzed:	1/20/95	Concentration Units:	mg/Kg

COMPOUND NAME	SPIKE AMT	LCS CONC	%REC LCS
Diesel	62.5	51 4	82%
o-Terphenyl			96%

Quality control limits for LCS recovery are 48-113%.

Quality control limits for o-terphenyl recovery are 64-109%.

REPORT SUMMARY
ANAMETRIX, INC. (408)432-8192

MR. WALTER HOWARD
RUST ENVIRONMENT AND INFRASTRUCTURE
12 METRO PARK ROAD
ALBANY, NY 12205

Workorder # : 9501121
Date Received : 01/17/95
Project ID : 35195.108
Purchase Order: N/A
Department : METALS
Sub-Department: METALS

SAMPLE INFORMATION:

ANAMETRIX SAMPLE ID	CLIENT SAMPLE ID	MATRIX	DATE SAMPLED	METHOD
9501121- 1	PB12d.1	SOIL	01/16/95	6010
9501121- 2	PB12d.2	SOIL	01/16/95	6010
9501121- 3	PB12d.3	SOIL	01/16/95	6010
9501121- 4	PB13d.1	SOIL	01/16/95	6010
9501121- 5	PB13d.2	SOIL	01/16/95	6010
9501121- 6	PB13d.3	SOIL	01/16/95	6010
9501121- 7	PBSDSAb1	SOIL	01/16/95	6010
9501121- 8	PB9d.3	SOIL	01/16/95	6010
9501121- 1	PB12d.1	SOIL	01/16/95	7196
9501121- 2	PB12d.2	SOIL	01/16/95	7196
9501121- 3	PB12d.3	SOIL	01/16/95	7196
9501121- 4	PB13d.1	SOIL	01/16/95	7196
9501121- 5	PB13d.2	SOIL	01/16/95	7196
9501121- 6	PB13d.3	SOIL	01/16/95	7196
9501121- 7	PBSDSAb1	SOIL	01/16/95	7196
9501121- 8	PB9d.3	SOIL	01/16/95	7196
9501121-11	PB3d.3	SOIL	01/16/95	7196

REPORT SUMMARY
ANAMETRIX, INC. (408)432-8192

MR. WALTER HOWARD
RUST ENVIRONMENT AND INFRASTRUCTURE
12 METRO PARK ROAD
ALBANY, NY 12205

Workorder # : 9501121
Date Received : 01/17/95
Project ID : 35195.108
Purchase Order: N/A
Department : METALS
Sub-Department: METALS

QA/QC SUMMARY :

- All holding times have been met for the analyses reported in this section.

Department Supervisor 1/23/95 Date

Chemist 1/23/95 Date

INCHCAPE TESTING SERVICES
ANAMETRIX LABORATORIES
(408) 432-8192

DATA REPORT

Analyte-Method: **Chromium-6010A**
Client Project Number: **35195.108**
Matrix - Units: **SOIL - mg/Kg**

Analyst: SC
Supervisor: MW

Anametrix Sample ID	Client Sample ID	Prep. Method	Instr. ID	Date Sampled	Date Prepared	Date Analyzed	D.F.	Reporting Limit	Results	Q
9501121-01	PB12d.1	3050A	ICP1	01/16/95	01/17/95	01/19/95	1	1.0	**3.5**	
9501121-02	PB12d.2	3050A	ICP1	01/16/95	01/17/95	01/19/95	1	1.0	**73.4**	
9501121-03	PB12d.3	3050A	ICP1	01/16/95	01/17/95	01/19/95	1	1.0	**71.2**	
9501121-04	PB13d.1	3050A	ICP1	01/16/95	01/17/95	01/19/95	1	1.0	**3.7**	
9501121-05	PB13d.2	3050A	ICP1	01/16/95	01/17/95	01/19/95	1	1.0	**63.9**	
9501121-06	PB13d.3	3050A	ICP1	01/16/95	01/17/95	01/19/95	1	1.0	**72.9**	
9501121-07	PBSDSAb1	3050A	ICP1	01/16/95	01/17/95	01/19/95	1	1.0	**53.5**	
9501121-08	PB9d.3	3050A	ICP1	01/16/95	01/17/95	01/19/95	1	1.0	**90.6**	
BJ175SB	METHOD BLANK	3050A	ICP1	N/A	01/17/95	01/19/95	1	1.0	**ND**	

COMMENTS:

INCHCAPE TESTING SERVICES
ANAMETRIX LABORATORIES
(408) 432-8192
DATA REPORT

Analyte-Method: **Hexavalent Chromium-7196A**
Client Project Number: **35195.108**
Matrix - Units: **SOIL - mg/Kg**

Analyst: SC
Supervisor: MW

Anametrix Sample ID	Client Sample ID	Prep. Method	Instr. ID	Date Sampled	Date Prepared	Date Analyzed	D.F.	Reporting Limit	Results	Q
9501121-01	PB12d.1	3060	SPE2	01/16/95	01/18/95	01/19/95	1	0.10	**ND**	
9501121-02	PB12d.2	3060	SPE2	01/16/95	01/18/95	01/19/95	1	0.10	**ND**	
9501121-03	PB12d.3	3060	SPE2	01/16/95	01/18/95	01/19/95	1	0.10	**ND**	
9501121-04	PB13d.1	3060	SPE2	01/16/95	01/18/95	01/19/95	1	0.10	**ND**	
9501121-05	PB13d.2	3060	SPE2	01/16/95	01/18/95	01/19/95	1	0.10	**ND**	
9501121-06	PB13d.3	3060	SPE2	01/16/95	01/18/95	01/19/95	1	0.10	**ND**	
9501121-07	PBSDSAb1	3060	SPE2	01/16/95	01/18/95	01/19/95	1	0.10	**ND**	
9501121-08	PB9d.3	3060	SPE2	01/16/95	01/18/95	01/19/95	1	0.10	**ND**	
9501121-11	PB3d.3	3060	SPE2	01/16/95	01/20/95	01/20/95	1	0.10	**ND**	
BJ185SA	METHOD BLANK	3060	SPE2	N/A	01/18/95	01/19/95	1	0.10	**ND**	
BJ205SA	METHOD BLANK	3060	SPE2	N/A	01/20/95	01/20/95	1	0.10	**ND**	

COMMENTS:

INCHCAPE TESTING SERVICES
ANAMETRIX LABORATORIES
(408) 432-8192

SAMPLE DUPLICATE REPORT

Anametrix Sample ID: **9501121-02D**
Client Sample ID: **PB12d.2**
Client Project Number: **35195.108**
Matrix: **SOIL**

Analyst: SC
Supervisor: MW

Analyte	Prep. Method	Analyt. Method	Instr. ID	Date Prepared	Date Analyzed	Dil. Factor	Units	Sample Conc.	Sample Duplicate Conc.	RPD	Q
Chromium	3050A	6010A	ICP1	01/17/95	01/19/95	1	mg/Kg	**73.4**	**69.0**	**6.2**	

COMMENTS:

INCHCAPE TESTING SERVICES
ANAMETRIX LABORATORIES
(408) 432-8192
MATRIX SPIKE REPORT

Anametrix. Sample ID: **9501121-02MS, MD**
Client Sample ID: **PB12d.2**
Client Proj. Number: **35195.108**
Matrix: **SOIL**

Analyst: SC
Supervisor: MW

Analyte	Analyt. Method	Instr. I.D.	Date Prepared	Date Analyzed	Units	Spike Amount	Sample Conc.	Matrix Spike Conc.	% Rec.	Matrix Sp. Dup. Conc.	% Rec.	RPD	Q
Chromium	6010A	ICP1	01/17/95	01/19/95	mg/Kg	20.0	73.4	93.5	**101**	95.4	**110**	**2.0**	

COMMENTS:

INCHCAPE TESTING SERVICES
ANAMETRIX LABORATORIES
(408) 432-8192

LABORATORY CONTROL SAMPLE REPORT

Lab. Control Sample ID: **LJ175SB, LJ185SA, LJ205SA**
Anametrix WO #: **9501121**
Client Project Number: **35195.108**
Matrix: **SOIL**

Analyst: SC
Supervisor: MW

Analyte	Prep. Method	Analytical Method	Instr. ID	Date Prepared	Date Analyzed	Dil. Factor	Units	Spike Amount	LCS Results	% Recovery	Q
Chromium	3050A	6010A	ICP1	01/17/95	01/19/95	1	mg/Kg	20.0	18.1	**90.5**	
Hexavalent Chromium	3060	7196	SPE2	01/18/95	01/19/95	1	mg/Kg	2.0	2.2	**110**	
Hexavalent Chromium	3060	7196	SPE2	01/20/95	01/20/95	1	mg/Kg	2.0	1.8	**90.0**	

COMMENTS:

Inchcape Testing Services
Anametrix Laboratories

SAMPLE RECEIVING CHECKLIST

WORKORDER NUMBER: 9501121 CLIENT PROJECT ID: 35195.108

COOLER

Shipping slip (airbill, etc.) present?	YES	NO	(N/A)
If YES, enter carrier name and airbill # : ____			
Custody Seal on the outside of cooler?	YES	NO	(N/A)
Condition: INTACT ____ BROKEN ____			
Temperature of sample (s) within range?	(YES)	NO	N/A
List temperature of cooler (s): 3°C			

SAMPLES

Chain of custody seal present for each container?	YES	NO	(N/A)
Condition: INTACT ____ BROKEN ____			
Samples arrived within holding time?	(YES)	NO	N/A
Samples in proper containers for methods requested?	(YES)	NO	
Condition of containers: INTACT ✓ BROKEN ____			
If NO, were samples transferred to proper container? ____			
Were VOA containers received with zero headspace?	YES	NO	(N/A)
If NO, was it noted on the chain of custody? ____			
Were container labels complete? (ID, date, time preservative, etc.)	(YES)	NO	
Were samples preserved with the proper preservative?	YES	NO	(N/A)
If NO, was the proper preservative added at time of receipt? ____			
pH check of samples required at time of receipt?	YES	(NO)	
If YES, pH checked and recorded by: ____			
Sufficient amount of sample received for methods requested?	(YES)	NO	
If NO, has the client or lab project manager been notified? ____			
Field blanks received with sample batch? # of Sets: ____	YES	NO	(N/A)
Trip blanks received with sample batch? # of Sets: ____	YES	NO	(N/A)

CHAIN OF CUSTODY

Chain of custody received with samples?	(YES)	NO
Has it been filled out completely and in ink?	YES	(NO)
Sample ID's on chain of custody agree with container labels?	(YES)	NO
Number of containers indicated on chain of custody agree with number received?	(YES)	NO
Analysis methods clearly specified?	(YES)	NO
Sampling date and time indicated?	(YES)	NO
Proper signatures of sampler, courier, sample custodian in appropriate place? with time and date?	(YES)	NO
Turnaround time? REGULAR ____ RUSH ✓		

Any NO response and/or any "BROKEN" that was checked must be detailed in the Corrective Action Form.

Sample Custodian: S. D. Date: 1/17/95 Project Manager: CVR Date: 1/18/95

50*

RUST ENVIRONMENT & INFRASTRUCTURE RUST

~~24 Hour~~ RUSH per Cristina 9501121 (2) ~~10/15~~ 10/15 g.p.

Chain of Custody Record

Custody Seal #	RUST E&I Cooler #

Project Number	Project Name/Client
35195.108	ANC

Samplers: (Signature) Richard Burgundi

Item No.	Sample Description (Field ID Number)	Date	Time	Grab	Comp.	Lab Sample Number	Container Number	Analysis Required: Total Chromium	Hexavalent Chromium	8260+TICS	8270	TPH-D	TPH-G	TPH-mineral spirits	HOLD	Matrix: Sample Type: Soil	Matrix: Sample Container: 6" SS Liner
1	PB 12d.1	1/16/95	1:20					X	X							✓	1
2	PB 12d.2		1:30					X	X							✓	2
3	PB 12d.3		1:40					X	X							✓	2
4	PB 13d.1		1:50					X	X							✓	1
5	PB 13d.2		1:55					X	X							✓	2
6	PB 13d.3		2:00					X	X							✓	2
7	PB SDSAb.1		12:30					X	X							✓	2
8	PB 9d.3		10:20					X	X							✓	2
9	PB 3d.1		10:40							X	X	X	X	X		✓	1
10	PB 3d.2		10:50							X	X	X	X	X		✓	2
11	PB 3d.3		11:00							X	X	X	X	X		✓	2
12	[redacted]		[redacted]						[redacted]								
~~13~~ 12	PB 9d.1 per R Burgundi 11/16/95 per client		9:40												X	✓	2
13	PB 9d.2		10:00												X	✓	2
14	PB-DSAb.1 S.D. 11/16/95 per client ✓		11.20												X	✓	2
15																	
16																	
17																	
18																	
19																	
20																	

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Disposed of by: (Signature)	Items:	Date/Time
[signature]	1-17-95 7:15				
Relinquished by: (Signature)	Date/Time	Received by: (Signature) [Laboratory]	Disposed of by: (Signature)	Items:	Date/Time
	1-17-95 9:15	Calvin Johnson			

Send Lab Results To: Walt Howard
RUST, Albany N.Y.

Remarks: Send Results to Richard Burgundi - RUST, San Jose.

Federal Express Airbill No.:
Lab:

Check Delivery Method:
- [x] Samples delivered in person
- [ ] Common carrier
- [ ] Mail

Laboratory Receiving Notes:
Custody Seal Intact?
Temp. of Shipping Container:
Sample Condition:

Rev 4/93 White Copy – Lab Yellow Copy – File Pink Copy – Client F514/Earth.Sci

Inchcape Testing Services
Anametrix Laboratories

1961 Concourse Drive, Suite E
San Jose, CA 95131
(408) 432-8192 • Fax (408) 432-8198

CHAIN-OF-CUSTODY RECORD

PROJECT NUMBER	PROJECT NAME
9501121	

Send Report Attention of:	Report Due	Verbal Due
CRISTINA RAYBURN	1/20/95	/ /

Sample Number	Date	Time	Comp	Matrix	Station Location	Number of Cntnrs	Type of Containers	Type of Analysis: 8260 +TICs	Condition of Samples	Initial
9	11/16/95	10:40		SO/L	PB3d.1	2	VOA's	X		
10	↓	10:50		↓	PB3d.2	↓	↓	X		
11	↓	11:00		↓	PB3d.3	↓	↓	X		

Relinquished by:(Signature)	Date/Time	Received by: (Signature)	Date/Time
Josephine DeCarli	11/18/95 11:00	Jane Ed	11-18-95/11:00
Relinquished by:(Signature)	Date/Time	Received by: (Signature)	Date/Time
Relinquished by:(Signature)	Date/Time	Received by Lab:	Date/Time

Remarks: PLEASE SEND ORIGINAL CHAIN OF CUSTODY ALONG WITH THE REPORT.
Subbed to Cal-Test 2 Day Rush!

COMPANY: INCHCAPE TESTING SERVICES, ANAMETRIX LABS
ADDRESS: 1961 CONCOURSE DRIVE, SUITE E
SAN JOSE, CA 95131
PHONE : (408)432-8192 FAX : (408)432-8198

Inchcape Testing Services
Anametrix Laboratories

1961 Concourse Drive
Suite E
San Jose, CA 95131
Tel: 408-452-8192
Fax: 408-452-8198

January 27, 1995

Mr. Walter Howard
RUST ENVIRONMENT & INFRASTRUCTURE
12 Metro Park Road
Albany, NY 12205

Dear Mr. Howard:

Enclosed are the analytical results for your project ID: 35195.108, we received on January 17, 1995. The enclosed work was performed by a laboratory subcontracted by Inchcape Testing Services - Anametrix Laboratories.

I.T.S. Anametrix ID:	Client ID:
9501121-09	PB3d.1
9501121-10	PB3d.2
9501121-11	PB3d.3

If you have any questions regarding this workorder, please give me a call at (408)432-8192.

Sincerely,

INCHCAPE TESTING SERVICES
ANAMETRIX LABORATORIES

Cristina V. Rayburn

Cristina Velasquez Rayburn
Project Manager

AMENDED REPORT

CERTIFIED ENVIRONMENTAL SERVICES
CALIFORNIA ELAP# 1664

Lab Number: 9501-272-1

CLIENT: Ms. Cristina Velasquez-Rayburn
Inchcape Testing Services Anametrix Laboratories
1961 Concourse Drive, Suite E
San Jose, CA 95131

PROJECT: 9501121

Analyzed :01-18-95
Analyzed by:RAD
Method :EPA 8260

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE/TIME	RECEIVED
PB3D.1	SOIL	CLIENT	16 JAN 95/10:40	18 JAN 95

ANALYTE	RESULT ug/kg	*R.L. ug/kg	NOTES
PRIORITY POLLUTANT VOLATILE ORGANICS			1-4
Benzene	ND	50.	
Bromodichloromethane	ND	50.	
Bromoform	ND	50.	
Bromomethane (Methyl Bromide)	ND	50.	
Carbon Tetrachloride	ND	50.	
Chlorobenzene	ND	50.	
Chloroethane (Ethyl Chloride)	ND	50.	
2-Chloroethylvinyl ether	ND	100.	
Chloroform	ND	50.	
Chloromethane (Methyl Chloride)	ND	50.	
Dibromochloromethane	ND	50.	
1,2-Dichlorobenzene	ND	50.	
1,3-Dichlorobenzene	ND	50.	
1,4-Dichlorobenzene	ND	50.	
Dichlorodifluoromethane (F-12)	ND	50.	
1,1-Dichloroethane	ND	50.	
1,2-Dichloroethane (EDC)	ND	50.	

EPA SW-846 or 600/4 METHODS except where noted-SM indicates Stand. Methods; 17th Ed.
*Results of 'ND' not detected at or above the listed Reporting Limit (R.L.).
[1] Sample Preparation on 01-18-95 by RAD using EPA 5030
[2] All results expressed as wet weight of sample.
[3] Sample diluted prior to analysis in an effort to reduce matrix interferences resulting in (a) higher reporting limit(s).
[4] AMENDED REPORT: Revised to report Xylene quantitation.

01/23/95
0118A/18
950118A.624P

1885 North Kelly Rd. • Napa, California 94558 • (707) 258-4000
FAX: 707-226-1001

AMENDED REPORT

CLIENT: Ms. Cristina Velasquez-Rayburn
Inchcape Testing Services Anametrix Laboratories
1961 Concourse Drive, Suite E
San Jose, CA 95131

PROJECT: 9501121

Analyzed :01-18-95
Analyzed by:RAD
Method :EPA 8260

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE/TIME	RECEIVED
PB3D.1	SOIL	CLIENT	16 JAN 95/10:40	18 JAN 95

ANALYTE	RESULT ug/kg	*R.L. ug/kg	NOTES
1,1-Dichloroethene	ND	50.	
cis-1,2-Dichloroethene	ND	50.	
trans-1,2-Dichloroethene	ND	50.	
1,2-Dichloropropane	ND	50.	
cis-1,3-Dichloropropene	ND	50.	
trans-1,3-Dichloropropene	ND	50.	
Dichlorotrifluoroethane (F-123)	ND	50.	
Ethylbenzene	800.	50.	
Methylene Chloride	ND	300.	
1,1,2,2-Tetrachloroethane	ND	50.	
Tetrachloroethene (PCE)	ND	50.	
Toluene	490.	50.	
1,1,1-Trichloroethane (TCA)	ND	50.	
1,1,2-Trichloroethane	ND	50.	
Trichloroethene (TCE)	ND	50.	
Trichlorofluoromethane (F-11)	ND	50.	
Trichlorotrifluoroethane (F-113)	ND	50.	
Vinyl Chloride	ND	50.	

EPA SW-846 or 600/4 METHODS except where noted-SM indicates Stand. Methods; 17th Ed.
*Results of 'ND' not detected at or above the listed Reporting Limit (R.L.).

01/23/95
0118A/18
950118A.624P

AMENDED REPOR

Lab Number: 9501-272-1

CLIENT: Ms. Cristina Velasquez-Rayburn
Inchcape Testing Services Anametrix Laboratories
1961 Concourse Drive, Suite E
San Jose, CA 95131

PROJECT: 9501121

Analyzed :01-18-95
Analyzed by:RAD
Method :EPA 8260

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE/TIME	RECEIVED
PB3D.1	SOIL	CLIENT	16 JAN 95/10:40	18 JAN 95

ANALYTE	RESULT ug/kg	*R.L. ug/kg	NOTES
Xylenes (Total)	13000.	500.	
Surrogate 1,2-Dichloro- ethane-d4	102%		
Surrogate Toluene-d8	98%		
Surrogate 4-Bromofluorobenzene	97%		

EPA SW-846 or 600/4 METHODS except where noted-SM indicates Stand. Methods; 17th Ed.
*Results of 'ND' not detected at or above the listed Reporting Limit (R.L.).

01/23/95
0118A/18
950118A.624P

CLIENT: Ms. Cristina Velasquez-Rayburn
Inchcape Testing Services Anametrix Laboratories
1961 Concourse Drive, Suite E
San Jose, CA 95131

PROJECT: 9501121

Analyzed :01-18-95
Analyzed by:RAD
Method :EPA 8260

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE/TIME	RECEIVED
PB3D.2	SOIL	CLIENT	16 JAN 95/10:50	18 JAN 95

ANALYTE	RESULT ug/kg	*R.L. ug/kg	NOTES
PRIORITY POLLUTANT VOLATILE ORGANICS			1,2,3
Benzene	ND	50.	
Bromodichloromethane	ND	50.	
Bromoform	ND	50.	
Bromomethane (Methyl Bromide)	ND	50.	
Carbon Tetrachloride	ND	50.	
Chlorobenzene	ND	50.	
Chloroethane (Ethyl Chloride)	ND	50.	
2-Chloroethylvinyl ether	ND	100.	
Chloroform	ND	50.	
Chloromethane (Methyl Chloride)	ND	50.	
Dibromochloromethane	ND	50.	
1,2-Dichlorobenzene	ND	50.	
1,3-Dichlorobenzene	ND	50.	
1,4-Dichlorobenzene	ND	50.	
Dichlorodifluoromethane (F-12)	ND	50.	
1,1-Dichloroethane	ND	50.	
1,2-Dichloroethane (EDC)	ND	50.	
1,1-Dichloroethene	ND	50.	

EPA SW-846 or 600/4 METHODS except where noted-SM indicates Stand. Methods; 17th Ed.
*Results of 'ND' not detected at or above the listed Reporting Limit (R.L.).
[1] Sample Preparation on 01-18-95 by RAD using EPA 5030
[2] All results expressed as wet weight of sample.
[3] Sample diluted prior to analysis in an effort to reduce matrix interferences resulting in (a) higher reporting limit(s).

01/20/95
0118A/19
950118A.624P

CLIENT: Ms. Cristina Velasquez-Rayburn
Inchcape Testing Services Anametrix Laboratories
1961 Concourse Drive, Suite E
San Jose, CA 95131

PROJECT: 9501121

Analyzed :01-18-95
Analyzed by:RAD
Method :EPA 8260

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE/TIME	RECEIVED
PB3D.2	SOIL	CLIENT	16 JAN 95/10:50	18 JAN 95

ANALYTE	RESULT ug/kg	*R.L. ug/kg	NOTES
cis-1,2-Dichloroethene	ND	50.	
trans-1,2-Dichloroethene	ND	50.	
1,2-Dichloropropane	ND	50.	
cis-1,3-Dichloropropene	ND	50.	
trans-1,3-Dichloropropene	ND	50.	
Dichlorotrifluoroethane (F-123)	ND	50.	
Ethylbenzene	150.	50.	
Methylene Chloride	ND	300.	
1,1,2,2-Tetrachloroethane	ND	50.	
Tetrachloroethene (PCE)	ND	50.	
Toluene	ND	50.	
1,1,1-Trichloroethane (TCA)	ND	50.	
1,1,2-Trichloroethane	ND	50.	
Trichloroethene (TCE)	ND	50.	
Trichlorofluoromethane (F-11)	ND	50.	
Trichlorotrifluoroethane (F-113)	ND	50.	
Vinyl Chloride	ND	50.	
Xylenes (Total)	1700.	50.	
Surrogate 1,2-Dichloro- ethane-d4	104%		

EPA SW-846 or 600/4 METHODS except where noted-SM indicates Stand. Methods; 17th Ed.
*Results of 'ND' not detected at or above the listed Reporting Limit (R.L.).

01/20/95
0118A/19
950118A.624P

CLIENT: Ms. Cristina Velasquez-Rayburn
Inchcape Testing Services Anametrix Laboratories
1961 Concourse Drive, Suite E
San Jose, CA 95131

PROJECT: 9501121

Analyzed :01-18-95
Analyzed by:RAD
Method :EPA 8260

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE/TIME	RECEIVED
PB3D.2	SOIL	CLIENT	16 JAN 95/10:50	18 JAN 95

ANALYTE	RESULT ug/kg	*R.L. ug/kg	NOTES
Surrogate Toluene-d8	99%		
Surrogate 4-Bromofluorobenzene	90%		

EPA SW-846 or 600/4 METHODS except where noted-SM indicates Stand. Methods; 17th Ed.
*Results of 'ND' not detected at or above the listed Reporting Limit (R.L.).

01/20/95
0118A/19
950118A.624P

CLIENT: Ms. Cristina Velasquez-Rayburn
Inchcape Testing Services Anametrix Laboratories
1961 Concourse Drive, Suite E
San Jose, CA 95131

PROJECT: 9501121

Analyzed :01-18-95
Analyzed by:RAD
Method :EPA 8260

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE/TIME	RECEIVED
PB3D.3	SOIL	CLIENT	16 JAN 95/11:00	18 JAN 95

ANALYTE	RESULT ug/kg	*R.L. ug/kg	NOTES
PRIORITY POLLUTANT VOLATILE ORGANICS			1,2
Benzene	ND	3.	
Bromodichloromethane	ND	3.	
Bromoform	ND	3.	
Bromomethane (Methyl Bromide)	ND	3.	
Carbon Tetrachloride	ND	3.	
Chlorobenzene	ND	3.	
Chloroethane (Ethyl Chloride)	ND	3.	
2-Chloroethylvinyl ether	ND	6.	
Chloroform	ND	3.	
Chloromethane (Methyl Chloride)	ND	3.	
Dibromochloromethane	ND	3.	
1,2-Dichlorobenzene	ND	3.	
1,3-Dichlorobenzene	ND	3.	
1,4-Dichlorobenzene	ND	3.	
Dichlorodifluoromethane (F-12)	ND	3.	
1,1-Dichloroethane	ND	3.	
1,2-Dichloroethane (EDC)	ND	3.	
1,1-Dichloroethene	ND	3.	
cis-1,2-Dichloroethene	ND	3.	
trans-1,2-Dichloroethene	ND	3.	

EPA SW-846 or 600/4 METHODS except where noted-SM indicates Stand. Methods; 17th Ed.
*Results of 'ND' not detected at or above the listed Reporting Limit (R.L.).
[1] Sample Preparation on 01-18-95 by RAD using EPA 5030
[2] All results expressed as wet weight of sample.

01/20/95
0118A/20
950118A.624P

CLIENT: Ms. Cristina Velasquez-Rayburn
Inchcape Testing Services Anametrix Laboratories
1961 Concourse Drive, Suite E
San Jose, CA 95131

PROJECT: 9501121

Analyzed :01-18-95
Analyzed by:RAD
Method :EPA 8260

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE/TIME	RECEIVED
PB3D.3	SOIL	CLIENT	16 JAN 95/11:00	18 JAN 95

ANALYTE	RESULT ug/kg	*R.L. ug/kg	NOTES
1,2-Dichloropropane	ND	3.	
cis-1,3-Dichloropropene	ND	3.	
trans-1,3-Dichloropropene	ND	3.	
Dichlorotrifluoroethane (F-123)	ND	3.	
Ethylbenzene	ND	3.	
Methylene Chloride	ND	18.	
1,1,2,2-Tetrachloroethane	ND	3.	
Tetrachloroethene (PCE)	ND	3.	
Toluene	ND	3.	
1,1,1-Trichloroethane (TCA)	ND	3.	
1,1,2-Trichloroethane	ND	3.	
Trichloroethene (TCE)	ND	3.	
Trichlorofluoromethane (F-11)	ND	3.	
Trichlorotrifluoroethane (F-113)	ND	3.	
Vinyl Chloride	ND	3.	
Xylenes (Total)	ND	3.	
Surrogate 1,2-Dichloro- ethane-d4	107%		
Surrogate Toluene-d8	99%		
Surrogate 4-Bromofluorobenzene	107%		

EPA SW-846 or 600/4 METHODS except where noted-SM indicates Stand. Methods; 17th Ed.
*Results of 'ND' not detected at or above the listed Reporting Limit (R.L.).

01/20/95
0118A/20
950118A.624P

CALTEST ANALYTICAL LABORATORY

Kristin L. Swanson KLS

Kristin L. Swanson, Ph.D.
Laboratory Director

Lab Number: 9501-272-1

CLIENT: Ms. Cristina Velasquez-Rayburn
Inchcape Testing Services Anametrix Laboratories
1961 Concourse Drive, Suite E
San Jose, CA 95131

PROJECT: 9501121
Analyzed :01-20-95
Analyzed by:RAD
Method :EPA 624

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE/TIME	RECEIVED
PB3D.1	SOIL	CLIENT	16 JAN 95/10:40	18 JAN 95

ANALYTE	RESULT ug/kg	*R.L. ug/kg	NOTES
TENTATIVELY IDENTIFIED VOLATILE ORGANICS			1,2,3
01) Trimethyl Benzene Isomer	36000.	10000.	
02) Naphthalene	17000.	10000.	
03) Trimethyl Benzene Isomer	12000.	10000.	

EPA SW-846 or 600/4 METHODS except where noted-SM indicates Stand. Methods; 17th Ed.
*Results of 'ND' not detected at or above the listed Reporting Limit (R.L.).
[1] Sample Preparation on 01-23-95 by RAD using EPA 5030
[2] Refer to EPA CLP Organic Statement of Work (OLM01.0); Section II, Task V for the specific protocol followed in the tentative identification.
[3] The above tentative identification and quantification is of all non-target sample components found in conc. greater than 10000 ug/kg.

01/23/95
0120A/05

CALTEST ANALYTICAL LABORATORY
Kristin L. Swanson
Kristin L. Swanson, Ph.D.
Laboratory Director

CLIENT: Ms. Cristina Velasquez-Rayburn
Inchcape Testing Services Anametrix Laboratories
1961 Concourse Drive, Suite E
San Jose, CA 95131

PROJECT: 9501121

Analyzed :01-18-95
Analyzed by:RAD
Method :EPA 624

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE/TIME	RECEIVED
PB3D.2	SOIL	CLIENT	16 JAN 95/10:50	18 JAN 95

ANALYTE	RESULT ug/kg	*R.L. ug/kg	NOTES
TENTATIVELY IDENTIFIED VOLATILE ORGANICS			1,2,3
01) Trimethyl Benzene Isomer	4600.	1000.	
02) Trimethyl Benzene Isomer	3900.	1000.	
03) Napthalene	2400.	1000.	
04) Tetramethyl Benzene Isomer	2200.	1000.	
05) Ethylmethyl Benzene Isomer	1600.	1000.	
06) Substituted Indene Derivative	1200.	1000.	
07) Methyl Isopropyl Benzene Isomer	1100.	1000.	
08) Ethylmethyl Benzene Isomer	1000.	1000.	
09) Tetramethyl Benzene Isomer	1000.	1000.	

EPA SW-846 or 600/4 METHODS except where noted-SM indicates Stand. Methods; 17th Ed.
*Results of 'ND' not detected at or above the listed Reporting Limit (R.L.).
[1] Sample Preparation on 01-18-95 by RAD using EPA 5030
[2] Refer to EPA CLP Organic Statement of Work (OLM01.0); Section II, Task V for the specific protocol followed in the tentative identification.
[3] The above tentative identification and quantification is of all non-target sample components found in concs. greater than 1000 ug/kg.

01/20/95
0118A/19
950118A.624P

CLIENT: Ms. Cristina Velasquez-Rayburn
Inchcape Testing Services Anametrix Laboratories
1961 Concourse Drive, Suite E
San Jose, CA 95131

PROJECT: 9501121

Analyzed :01-18-95
Analyzed by:RAD
Method :EPA 624

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE/TIME	RECEIVED
PB3D.3	SOIL	CLIENT	16 JAN 95/11:00	18 JAN 95

ANALYTE	RESULT	*R.L.	NOTES
TENTATIVELY IDENTIFIED VOLATILE ORGANICS			1,2,3
No Additional Compounds Present	ND	50.	

EPA SW-846 or 600/4 METHODS except where noted-SM indicates Stand. Methods; 17th Ed.
*Results of 'ND' not detected at or above the listed Reporting Limit (R.L.).
[1] Sample Preparation using EPA 5030
[2] Refer to EPA CLP Organic Statement of Work (OLM01.0); Section II, Task V for the specific protocol followed in the tentative identification.
[3] No non-priority pollutant peaks present in concentrations greater than 50 ug/kg.

01/20/95
0118A/20
950118A.624P

CALTEST ANALYTICAL LABORATORY

Kristin L. Swanson

Kristin L. Swanson, Ph.D.
Laboratory Director

CLIENT: Ms. Cristina Velasquez-Rayburn
Inchcape Testing Services Anametrix Laboratories
1961 Concourse Drive, Suite E
San Jose, CA 95131

PROJECT: 9501121

Analyzed :01-18-95
Analyzed by:RAD
Method :EPA 8260

REPORT OF FORTIFIED BLANK RESULTS

SAMPLE DESCRIPTION: QC REAGENT SPIKE

MATRIX: Solid, Soil, or Sludge

ANALYTE	SPIKE AMOUNT ug/kg	SPIKE RESULT ug/kg	% REC	NOTES
PRIORITY POLLUTANT VOLATILE ORGANICS				[1]
Benzene	6.00	5.96	99	
Bromodichloromethane	6.00	5.77	96	
Bromoform	6.00	5.61	94	
Bromomethane (Methyl Bromide)	ND	ND	ND	
Carbon Tetrachloride	ND	ND	ND	
Chlorobenzene	6.00	5.91	99	
Chloroethane (Ethyl Chloride)	ND	ND	ND	
2-Chloroethylvinyl ether	ND	ND	ND	
Chloroform	6.00	6.14	102	
Chloromethane (Methyl Chloride)	ND	ND	ND	
Dibromochloromethane	6.00	5.80	97	
1,2-Dichlorobenzene	ND	ND	ND	
1,3-Dichlorobenzene	ND	ND	ND	
1,4-Dichlorobenzene	ND	ND	ND	
Dichlorodifluoromethane (F-12)	ND	ND	ND	
1,1-Dichloroethane	ND	ND	ND	

% REC is Spike Recovery Value

[1] QC Performed for Samples: 9501272-1,9501272-2,9501272-3

950118A.624P
0118A/16

CLIENT: Ms. Cristina Velasquez-Rayburn
Inchcape Testing Services Anametrix Laboratories
1961 Concourse Drive, Suite E
San Jose, CA 95131

PROJECT: 9501121

Analyzed :01-18-95
Analyzed by:RAD
Method :EPA 8260

REPORT OF FORTIFIED BLANK RESULTS

SAMPLE DESCRIPTION: QC REAGENT SPIKE

MATRIX: Solid, Soil, or Sludge

ANALYTE	SPIKE AMOUNT ug/kg	SPIKE RESULT ug/kg	% REC	NOTES
Trichlorotrifluoroethane (F-113)	ND	ND	ND	
Vinyl Chloride	ND	ND	ND	
Xylenes (Total)	18.0	17.9	99	
Surrogate 1,2-Dichloro- ethane-d4			102.	
Surrogate Toluene-d8			99.	
Surrogate 4-Bromofluorobenzene			100.	

% REC is Spike Recovery Value

950118A.624P
0118A/16

CLIENT: Ms. Cristina Velasquez-Rayburn
Inchcape Testing Services Anametrix Laboratories
1961 Concourse Drive, Suite E
San Jose, CA 95131

PROJECT: 9501121

Analyzed :01-18-95
Analyzed by:RAD
Method :EPA 8260

REPORT OF FORTIFIED BLANK DUPLICATE RESULTS

SAMPLE DESCRIPTION	MATRIX
QC REAGENT SPIKE DUPLICATE	Solid, Soil, or Sludge

ANALYTE	SPIKE AMOUNT ug/kg	SPIKE RESULT ug/kg	% REC	*RPD	NOTES
1,1-Dichloroethane	ND	ND	ND	ND	
1,2-Dichloroethane (EDC)	ND	ND	ND	ND	
1,1-Dichloroethene	6.00	5.82	97	5.6	
cis-1,2-Dichloroethene	ND	ND	ND	ND	
trans-1,2-Dichloroethene	ND	ND	ND	ND	
1,2-Dichloropropane	ND	ND	ND	ND	
cis-1,3-Dichloropropene	ND	ND	ND	ND	
trans-1,3-Dichloropropene	ND	ND	ND	ND	
Dichlorotrifluoroethane (F-123)	ND	ND	ND	ND	
Ethylbenzene	6.00	5.89	98	1.1	
Methylene Chloride	ND	ND	ND	ND	
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	
Tetrachloroethene (PCE)	ND	ND	ND	ND	
Toluene	6.00	5.87	98	1.1	
1,1,1-Trichloroethane (TCA)	ND	ND	ND	ND	
1,1,2-Trichloroethane	ND	ND	ND	ND	
Trichloroethene (TCE)	6.00	5.81	97	0.73	

% REC is Spike Recovery Value & RPD is Relative Percent Difference
* Refer to FORTIFIED BLANK RESULTS for initial values.

950118A.624P
0118A/17

CLIENT: Ms. Cristina Velasquez-Rayburn
Inchcape Testing Services Anametrix Laboratories
1961 Concourse Drive, Suite E
San Jose, CA 95131

PROJECT: 9501121
Analyzed :01-18-95
Analyzed by:RAD
Method :EPA 8260

REPORT OF INSTRUMENT BLANK RESULTS

SAMPLE DESCRIPTION	MATRIX
INSTRUMENT BLANK	Solid, Soil, or Sludge

ANALYTE	*R.L. ug/kg	RESULT ug/kg	NOTES
PRIORITY POLLUTANT VOLATILE ORGANICS			[1]
Benzene	0.5	ND	
Bromodichloromethane	0.5	ND	
Bromoform	0.5	ND	
Bromomethane (Methyl Bromide)	0.5	ND	
Carbon Tetrachloride	0.5	ND	
Chlorobenzene	0.5	ND	
Chloroethane (Ethyl Chloride)	0.5	ND	
2-Chloroethylvinyl ether	1.	ND	
Chloroform	0.5	ND	
Chloromethane (Methyl Chloride)	0.5	ND	
Dibromochloromethane	0.5	ND	
1,2-Dichlorobenzene	0.5	ND	
1,3-Dichlorobenzene	0.5	ND	
1,4-Dichlorobenzene	0.5	ND	
Dichlorodifluoromethane (F-12)	0.5	ND	
1,1-Dichloroethane	0.5	ND	

* Reporting Limit
Results listed as 'ND' were not detected at or above the listed R.L.

[1] QC Performed for Samples: 9501272-1,9501272-2,9501272-3

950118A.624P
0118A/07

CLIENT: Ms. Cristina Velasquez-Rayburn
Inchcape Testing Services Anametrix Laboratories
1961 Concourse Drive, Suite E
San Jose, CA 95131

PROJECT: 9501121

Analyzed :01-18-95
Analyzed by:RAD
Method :EPA 8260

REPORT OF INSTRUMENT BLANK RESULTS

SAMPLE DESCRIPTION	MATRIX
INSTRUMENT BLANK	Solid, Soil, or Sludge

ANALYTE	*R.L. ug/kg	RESULT ug/kg	NOTES
Trichlorotrifluoroethane (F-113)	0.5	ND	
Vinyl Chloride	0.5	ND	
Xylenes (Total)	0.5	ND	
Surrogate 1,2-Dichloro- ethane-d4		105%	
Surrogate Toluene-d8		100%	
Surrogate 4-Bromofluorobenzene		105%	

* Reporting Limit
Results listed as 'ND' were not detected at or above the listed R.L.

950118A.624P
0118A/07

CALTEST ANALYTICAL LABORATORY

Kristin L. Swanson KLS

Kristin L. Swanson, Ph.D.
Laboratory Director

16877 9501272

Inchcape Testing Services
Anametrix Laboratories

1961 Concourse Drive, Suite E
San Jose, CA 95131
(408) 432-8192 • Fax (408) 432-8198

CHAIN-OF-CUSTODY RECORD

PROJECT NUMBER	PROJECT NAME
9501121	

Send Report Attention of:	Report Due	Verbal Due
CRISTINA RAYBURN	1/20/95	/ /

Sample Number	Date	Time	Comp	Matrix	Station Location	Number of Cntnrs	Type of Containers	Type of Analysis: 8260 TICs	Condition of Samples	Initial
9	1/16/95	10:40		SO/L	PB3d.1	2	VOA's	X		
10	↓	10.50		↓	PB 3d.2	↓	↓	X		
11	↓	11:00		↓	PB 3d.3	↓	↓	X		

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
Josephine DeCarli	1/18/95 11:00	[signature]	1-18-95/11:00
[signature]	1-18-95 13:20	[signature]	1/18/95 1320
Relinquished by: (Signature)	Date/Time	Received by Lab:	Date/Time

Remarks: PLEASE SEND ORIGINAL CHAIN OF CUSTODY ALONG WITH THE REPORT.
Subbed to Cal-Test 2 Day Rush!

COMPANY: INCHCAPE TESTING SERVICES, ANAMETRIX LABS
ADDRESS: 1961 CONCOURSE DRIVE, SUITE E
SAN JOSE, CA 95131
PHONE : (408)432-8192 FAX : (408)432-8198

Inchcape Testing Services
Anametrix Laboratories

1961 Concourse Drive
Suite E
San Jose, CA 95131
Tel: 408-452-8192
Fax: 408-452-8198

MR. WALTER HOWARD
RUST ENVIRONMENT AND INFRASTRUCTURE
12 METRO PARK ROAD
ALBANY, NY 12205

Workorder # : 9501123
Date Received : 01/17/95
Project ID : 35195.108
Purchase Order: N/A

The following samples were received at Anametrix for analysis :

ANAMETRIX ID	CLIENT SAMPLE ID
9501123- 1	SDSA-SH1
9501123- 2	SDSA-SH2
9501123- 3	SDSA-SH3
9501123- 4	SDSA-SH4
9501123- 5	SDSA-SH5
9501123- 6	SDSA-SH6
9501123- 7	SDSA-SH7
9501123- 8	SDSA-SH8

This report is organized in sections according to the specific Anametrix laboratory group which performed the analysis(es) and generated the data.

The results contained within this report relate to only the sample(s) tested. Additionally, these data should be considered in their entirety and Anametrix cannot be responsible for the detachment, separation, or otherwise partial use of this report.

Anametrix is certified by the California Department of Health Services (DHS) to perform environmental testing under Certificate Number 1234.

If you have any further questions or comments on this report, please call your project manager as soon as possible. Thank you for using Inchcape Testing Services.

Susan Kraska Yeager
Laboratory Director

01/20/95
Date

Cristina V. Rayburn
Project Manager

This report consists of ____ pages.

REPORT SUMMARY
ANAMETRIX, INC. (408)432-8192

MR. WALTER HOWARD
RUST ENVIRONMENT AND INFRASTRUCTURE
12 METRO PARK ROAD
ALBANY, NY 12205

Workorder # : 9501123
Date Received : 01/17/95
Project ID : 35195.108
Purchase Order: N/A
Department : METALS
Sub-Department: METALS

SAMPLE INFORMATION:

ANAMETRIX SAMPLE ID	CLIENT SAMPLE ID	MATRIX	DATE SAMPLED	METHOD
9501123- 1	SDSA-SH1	SOIL	01/16/95	7196
9501123- 2	SDSA-SH2	SOIL	01/16/95	7196
9501123- 3	SDSA-SH3	SOIL	01/16/95	7196
9501123- 4	SDSA-SH4	SOIL	01/16/95	7196
9501123- 5	SDSA-SH5	SOIL	01/16/95	7196
9501123- 6	SDSA-SH6	SOIL	01/16/95	7196
9501123- 7	SDSA-SH7	SOIL	01/16/95	7196
9501123- 8	SDSA-SH8	SOIL	01/16/95	7196

REPORT SUMMARY
ANAMETRIX, INC. (408)432-8192

MR. WALTER HOWARD
RUST ENVIRONMENT AND INFRASTRUCTURE
12 METRO PARK ROAD
ALBANY, NY 12205

Workorder # : 9501123
Date Received : 01/17/95
Project ID : 35195.108
Purchase Order: N/A
Department : METALS
Sub-Department: METALS

QA/QC SUMMARY :

- All holding times have been met for the analyses reported in this section.
- Matrix spike recoveries for hexavalent chromium were outside Anametrix control limits, possibly due to matrix interferences encountered during sample preparation. A post digestion spike was performed, and the result was within control limits.

Department Supervisor 1/20/95 Date

Chemist 1/20/95 Date

INCHCAPE TESTING SERVICES
ANAMETRIX LABORATORIES
(408) 432-8192
DATA REPORT

Analyte-Method: **Hexavalent Chromium-7196**
Client Project Number: **35195.108**
Matrix - Units: **SOIL - mg/Kg**

Analyst: LP
Supervisor: MAJ

Anametrix Sample ID	Client Sample ID	Prep. Method	Instr. ID	Date Sampled	Date Prepared	Date Analyzed	D.F.	Reporting Limit	Results	Q
9501123-01	SDSA-SH1	3060	SPE2	01/16/95	01/18/95	01/19/95	1	0.10	**0.49**	
9501123-02	SDSA-SH2	3060	SPE2	01/16/95	01/18/95	01/19/95	1	0.10	**ND**	
9501123-03	SDSA-SH3	3060	SPE2	01/16/95	01/18/95	01/19/95	1	0.10	**ND**	
9501123-04	SDSA-SH4	3060	SPE2	01/16/95	01/18/95	01/19/95	1	0.10	**ND**	
9501123-05	SDSA-SH5	3060	SPE2	01/16/95	01/18/95	01/19/95	1	0.10	**ND**	
9501123-06	SDSA-SH6	3060	SPE2	01/16/95	01/18/95	01/19/95	1	0.10	**ND**	
9501123-07	SDSA-SH7	3060	SPE2	01/16/95	01/18/95	01/19/95	1	0.10	**ND**	
9501123-08	SDSA-SH8	3060	SPE2	01/16/95	01/18/95	01/19/95	1	0.10	**ND**	
BJ185SA	METHOD BLANK	3060	SPE2	N/A	01/18/95	01/19/95	1	0.10	**ND**	

COMMENTS:

INCHCAPE TESTING SERVICES
ANAMETRIX LABORATORIES
(408) 432-8192
MATRIX SPIKE REPORT

Anametrix. Sample ID: **9501123-05MS,MD**
Client Sample ID: **SDSA-SH5**
Client Proj. Number: **35195.108**
Matrix: **SOIL**

Analyst: AP
Supervisor: MW

Analyte	Analyt. Method	Instr. I.D.	Date Prepared	Date Analyzed	Units	Spike Amount	Sample Conc.	Matrix Spike Conc.	% Rec.	Matrix Sp. Dup. Conc.	% Rec.	RPD	Q
Hexavalent Chromium	7196	SPE2	01/18/95	01/19/95	mg/Kg	2.0	0.0	0.93	**46.5**	0.91	**45.5**	**2.2**	U

COMMENTS:

INCHCAPE TESTING SERVICES
ANAMETRIX LABORATORIES
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POST DIGESTION SPIKE REPORT

Anametrix Sample ID: **9501123-05PDS**
Client Sample ID: **SDSA-SH5**
Client Project Number: **95195.108**
Matrix: **SOIL**

Analyst: SC
Supervisor: MW

Analyte	Analyt. Method	Instr. ID	Date Prepared	Date Analyzed	D.F.	Units	Spike Amount	Sample Conc.	PDS Conc.	% Rec.	Q
Hexavalent Chromium	7196	SPE2	01/19/95	01/19/95	1	mg/Kg	1.0	0.0	0.82	**82.0**	U

COMMENTS:

INCHCAPE TESTING SERVICES
ANAMETRIX LABORATORIES
(408) 432-8192

LABORATORY CONTROL SAMPLE REPORT

Lab. Control Sample ID: **LJ185SA**
Anametrix WO #: **9501123**
Client Project Number: **35195.108**
Matrix: **WATER**

Analyst: NP
Supervisor: MW

Analyte	Prep. Method	Analytical Method	Instr. ID	Date Prepared	Date Analyzed	Dil. Factor	Units	Spike Amount	LCS Results	% Recovery	Q
Hexavalent Chromium	3060	7196	SPE2	01/18/95	01/19/95	1	mg/Kg	2.0	2.2	110	

COMMENTS:

Inchcape Testing Services
Anametrix Laboratories

SAMPLE RECEIVING CHECKLIST

WORKORDER NUMBER: 950123 CLIENT PROJECT ID: 35195.108

COOLER

Shipping slip (airbill, etc.) present?	YES	NO	(N/A)
If YES, enter carrier name and airbill # : ____			
Custody Seal on the outside of cooler?	YES	NO	(N/A)
Condition: INTACT ____ BROKEN ____			
Temperature of sample (s) within range?	YES	(NO)	N/A
List temperature of cooler (s): 13°C			

SAMPLES

Chain of custody seal present for each container?	YES	NO	(N/A)
Condition: INTACT ____ BROKEN ____			
Samples arrived within holding time?	(YES)	NO	N/A
Samples in proper containers for methods requested?	(YES)	NO	
Condition of containers: INTACT ✓ BROKEN ____			
If NO, were samples transferred to proper container? ____			
Were VOA containers received with zero headspace?	YES	NO	(N/A)
If NO, was it noted on the chain of custody? ____			
Were container labels complete? (ID, date, time preservative, etc.)	(YES)	NO	
Were samples preserved with the proper preservative?	YES	NO	(N/A)
If NO, was the proper preservative added at time of receipt? ____			
pH check of samples required at time of receipt?	YES	(NO)	
If YES, pH checked and recorded by: ____			
Sufficient amount of sample received for methods requested?	(YES)	NO	
If NO, has the client or lab project manager been notified? ____			
Field blanks received with sample batch? # of Sets: ____	YES	NO	(N/A)
Trip blanks received with sample batch? # of Sets: ____	YES	NO	(N/A)

CHAIN OF CUSTODY

Chain of custody received with samples?	(YES)	NO
Has it been filled out completely and in ink?	(YES)	NO
Sample ID's on chain of custody agree with container labels?	(YES)	NO
Number of containers indicated on chain of custody agree with number received?	(YES)	NO
Analysis methods clearly specified?	(YES)	NO
Sampling date and time indicated?	(YES)	NO
Proper signatures of sampler, courier, sample custodian in appropriate place? with time and date?	(YES)	NO
Turnaround time? REGULAR ____ RUSH ✓		

Any NO response and/or any "BROKEN" that was checked must be detailed in the Corrective Action Form.

Sample Custodian [illegible] Date 1/17/95 Project Manager [illegible] Date 1/20/95

50ⁱ KRIVAL 24 Hour Turn around Cristina (?) 10/15

9[redacted]23

RUST ENVIRONMENT & INFRASTRUCTURE

Chain of Custody Record

Custody Seal #	RUST E&I Cooler #

Project Number: 35195.108

Project Name/Client: ANC

Samplers: (Signature) Richard Burzinski

	Item No.	Sample Description (Field ID Number)	Date	Time	Grab	Comp.	Lab Sample Number	Container Number	HOLD / Total [illegible]	pH	Hexavalent Chromium	Sample Type: Soil	Sample Type: Water	Sample Container: 500 ml plastic	Sample Container: 6" liner
(14)	1	~~SDSA6-W~~	1-16-95	16:05						X			✓	1	
(15)	2	~~DSA6-W~~	↑	15:30						X			✓	1	
(16)	3	SDSA-SH1		9:47			(14)	(1)			X	✓			1
(17)	4	SDSA-SH2		10:38			(15)	(2)			X	✓			1
(18)	5	SDSA-SH3		11:03			(16)	(3)			X	✓			1
(19)	6	SDSA-SH4		14:15			(17)	(4)			X	✓			1
(20)	7	SDSA-SH5		12:55			(18)	(5)			X	✓			1
	8	SDSA-SH6		14:05			(19)	(6)			X	✓			1
	9	[redacted] SDSA-SH7	↓	14:35			(20)	g.D. (7)			X	✓			1
	10	SDSA-SH8	1-16-95	14:50				(8)			X	✓			1
	11	[redacted]													
	12														
	13														
	14														
	15														
	16														
	17														
	18														
	19														
	20														

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Disposed of by: (Signature)	Items:	Date/Time
[signature]	1-17-95 9:15				
Relinquished by: (Signature)	1-17-95 9:15	Received by: (Signature) [Laboratory] Calvin Rotensi			

Send Lab Results To: Walt Howard
RUST, Albany N.Y.

Remarks: send copy to Richard Burzinski – RUST San Jose

Federal Express Airbill No.:
Lab:

Check Delivery Method:
- [x] Samples delivered in person
- [ ] Common carrier
- [ ] Mail

Laboratory Receiving Notes:
Custody Seal Intact? NO
Temp. of Shipping Container: 5°C
Sample Condition: OK

APPENDIX B

PERFORMANCE STANDARDS PROVIDED BY DTSC

ATTACHMENT 1:

CLOSURE PERFORMANCE STANDARDS
AMERICAN NATIONAL CAN FACILITY - OAKLAND

Analytes of Concern for All Soil Samples	Soil Performance Standards
Total Lead EPA Method 6010	Clean Closure: Background Mean plus 2SD or ≤ 300 mg/kg. Deed Restriction Non-Residential Land Use: 300 - 850 mg/kg. Deed Restriction Non-Commercial Land Use: > 850 mg/kg.
Total Zinc EPA Method 6010	Clean Closure: Background Mean plus 2 SD or Deed Restriction - Non-Residential Land Use: > 17,000 mg/kg
Hexavalent Chromium EPA Method 7196A	PQL = ≤ 5.0 mg/kg
Organolead	PQL = ≤ 0.25 ug/kg
TPH-Diesel	10 mg/kg
TPH-Mineral Spirits	10 mg/kg
LUFT Manual Methods	
Volatile Organic Compounds* EPA Method 8260/open scan	1 mg/kg
Semivolatile Organic Compounds EPA Method 8260/open scan	1 mg/kg

*No VOA analytical necessary from samples retried in disturbed soils beyond containment pads that are within one foot of grade.