ARTESIAN ENVIRONMENTAL

February 05, 1999

Ms. Eva Chu
Alameda County Department of Environmental Health
Environmental Protection Division
1131 Harbor Bay Parkway, Room 250
Alameda, CA 94502-6577

Re: Underground Storage Tank Removal / Soil Remediation Report
New Albany High School Site
603 Key Route Boulevard
Albany, California

Dear Ms. Chu:

Artesian Environmental Consultants (Artesian) is pleased to submit a Underground Storage Tank (UST) Removal / Soil Remediation Report. The report documents the UST removal and soil remediation activities at the site of the New Albany High School in Albany, California, that occurred on the property from October, 1998 through November, 1998. Please find enclosed 1 copy of this report for your files.

Please feel free to call us at (510) 307-9943 if we may be of assistance, or if you have any questions or comments.

Sincerely,

Paul E. Jones
Project Manager / Geologist
Artesian Environmental

Artesian Environmental
229 Tewksbury Avenue • Point Richmond, CA 94801 • TEL 510. 307-9943 • FAX 510. 232-2823

ARTESIAN ENVIRONMENTAL

Underground Storage Tank Removal / Soil Remediation Report

New Albany High School Site
603 Key Route Boulevard
Albany, California

Prepared For:

The Albany Unified School District
c/o Mr. Richard Vila
Vila Construction Company
590 South 33rd Street
Richmond, CA 94804

February 5, 1999

CERTIFIED HYDROGEOLOGIST
JAMES A. JACOBS
NO. 88
STATE OF CALIFORNIA

Paul E. Jones
Project Geologist

James A. Jacobs, C.H.G #88
Principal Hydrogeologist

Artesian Environmental
229 Tewksbury Avenue • Point Richmond, CA 94801 • TEL 510. 307-9943 • FAX 510. 232-2823

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Artesian Environmental
229 Tewksbury Avenue • Point Richmond, CA 94801 • TEL 510. 307-9943 • FAX 510 232-2823

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Artesian Environmental
229 Tewksbury Avenue • Point Richmond, CA 94801 • TEL 510. 307-9943 • FAX 510. 232-2823

1.0 INTRODUCTION

Artesian Environmental (Artesian) was initially retained by Vila Construction Company (Vila) on behalf of the Albany Unified School District (AUSD) to remove one 2,000 gallon Heating Oil Underground Storage Tank (UST) at the premises of the AUSD High School, located at 603 Key Route Boulevard in Albany, California. After removal of the UST, Artesian over-excavated petroleum contaminated soils from the vicinity of the UST and conducted exploratory trenching to determine the extent of visually contaminated soils at the direction of the Alameda County Department of Environmental Health (ACDEH). Artesian holds general engineering contractor 'A' license # 624461 including a Hazardous Material Removal Certificate .

This report documents UST removal and exploratory trenching activities performed by Artesian. Artesian excavated a total of 406 tons of petroleum contaminated soils (approximately 270 cubic yards) and transported them to Altamont Landfill, Inc. in Livermore, California (a Class II facility) for proper disposal.

Figure 1 (Site Location Map) shows the location of the subject site within the City of Albany. Figure 2 (Site Map) shows the site and major features of the site in relation to major surrounding offsite features. Figure 2 also shows the final dimensions of the excavation along with confirmational soil sample locations. Figures 3 through 10 provide photo documentation of UST removal and exploration trenching activities. All Figures are contained in Appendix A. The property is presently inactive pending redevelopment.

1.1 SCOPE OF WORK

Artesian performed the following tasks:

1. Obtained necessary permits from the ACDEH, Albany Fire Department, and City of Albany Department of Public Works (Permits are contained in Appendix B);

2. Removed, transported, and disposed 1 heating oil UST;

3. Performed over-excavation of soil from the vicinity of the former UST location and exploratory trenching away from the former UST location to determine the extent of visually contaminated soils.;

4. Segregated soils into impacted and non-impacted stockpiles at the site based on indications of contamination such as unusual odors, staining, and photoionization detector (PID) readings;

5. Selected for analysis by a state certified laboratory, soil samples from excavation walls, soil stockpiles, and below the UST. Analyses for each soil sample were selected in accordance with the requirements of the ACDEH and in accordance with the sampling requirements of the disposal facility chosen to receive the impacted soils;

6. Transported and disposed excavated soils which contained total petroleum hydrocarbons as diesel (TPHd) in excess of 250 parts per million (ppm) or TPH as oil and grease (TPHog) in excess of 1000 ppm;

7. Contracted, coordinated, and documented the removal and disposal of asbestos containing materials discovered around buried pipes which carried steam when the (now demolished) onsite structure was in use; and

8. Documented the field activities, reviewed laboratory data, and prepared this report of the UST removal, over-excavation, and exploratory trenching activities;

2.0 BACKGROUND

The subject site is located in the northern portion of Albany, California at the southeast corner of Key Route Boulevard and Thousand Oaks Boulevard approximately 1 mile east of Interstate Highway 80. The site is surrounded by residential properties and other AUSD property. The site is bounded by AUSD property to the east and south and by residences to the north and west.

In the fall of 1998, Vila Construction began site preparation activities for the construction of a new structure at the subject site. AUSD records indicated that one or two USTs had been used at the site to contain heating oil which was used to fuel furnaces in the former building. Vila then conducted exploratory excavations to confirm the presence or absence of the tank(s). Vila located a single UST and confirmed that no tank was present at the second suspected location. Artesian was then contracted to remove the UST and prepare this report.

3.0 FIELD ACTIVITIES

Prior to removal of the UST, Mr. David Dell'Osso of Artesian obtained the UST removal permit from the ACDEH which was the lead agency. A UST removal permit was also obtained from the City of Albany Fire Department. Permits are contained in Appendix C.

Artesian evacuated the contents of the tank and arranged for the liquids and sludge to be transported to an appropriate facility for recycling. After the tank had been emptied sufficiently for removal, Artesian removed the 2,000 gallon heating oil UST and transported it as hazardous waste to a state licensed disposal facility.

Artesian excavated a total of approximately 560 cubic yards (approximately 840 tons) of soil during UST removal and exploration trenching activities. Soils were stockpiled separately according to whether they appeared contaminated. Artesian then collected representative samples of soil from the apparently impacted and non-impacted soil stockpiles for laboratory analysis to verify what volume of soil required disposal. Artesian collected a total of 10 confirmational soil samples from the soil stockpiles for laboratory analysis. Only 406 tons of petroleum contaminated soils contained concentrations of petroleum hydrocarbons which required that they be transported from the site for disposal. Impacted soils were then transported to Altamont Landfill in Livermore, California and disposed as Class II non-hazardous waste. Vila backfilled the remaining excavation using a combination of re-usable soil and imported fill.

3.1 UNDERGROUND STORAGE TANK REMOVAL

On October 14, 1998, Artesian removed a 2,000 gallon capacity heating oil UST at the subject site. The tank was constructed of unwrapped, single walled steel and measured approximately 14 feet long and 5 feet in diameter.

The tank contained water, heating oil, and a sandy solid that required pumping before the tank could be removed. On July 1, 1998, 1,900 gallons of water and heating oil was pumped from the tank by Clearwater Environmental Management, Inc. (Clearwater), of Fremont, California and transported under hazardous waste manifest number 98197280 to a Clearwater facility in Alviso, California for recycling. After pumping liquids from the tank, a sandy, oily material remained in the tank which had to be loosened with a high pressure steam cleaner to allow its removal. On October 13, 1998, Artesian again contracted Clearwater to pump the material from the tank. Clearwater pumped, transported, and disposed a total of approximately 1,050 gallons of water and petroleum contaminated sand from the tank. Hazardous waste manifests for each truck load of UST contents transported from the site are contained in Appendix C.

After the tank had been emptied, soil was removed from the sides of the tank using a John Deere 690E excavator operated by Mr. Edward Svoboda, of Artesian. The tank was then purged by placing approximately 50 pounds of dry ice into the tank and allowing the dry ice to sublime, thereby displacing oxygen and potentially explosive vapors with the inert carbon dioxide gas. Air monitoring using a Gastech/ Tanktechtor vapor meter was performed during the excavation and purging of the tank. Prior to moving the tank, the Tanktechtor indicated 0.0 % of the lower explosive limit (LEL) and 3 % oxygen in vapors within the tank. Chains secured to the excavator were then attached to the mid-section of the tank for removal from the excavation.

On October 14, 1998 at approximately 3:00 p.m. the tank and associated piping were removed from the excavation and placed on plastic sheeting at the ground surface for inspection to determine the tank's condition. Associated piping was restricted to the UST excavation. The tank was mildly corroded, however, no obvious holes were noted. Photo documentation of the tank removal, tank condition, and condition of soil near the tank is contained in Appendix A as Figures 3 through 8.

The tank was then lifted onto a trailer bed for transport by Dexanna, Inc. of Concord, California to the ECI - Erickson, Inc. disposal facility in Richmond, California. The tank was transported as hazardous waste under hazardous waste manifest number 96734231. Dexanna's hazardous waste transporter license number is DOT503505. A hazardous waste manifest and a certificate of destruction for the UST transported from the site are contained in Appendix C.

Witnesses to the UST removal included Mr. Barney Chan of the ACDEH; Mr. Brian Crudo of the Albany Fire Department; Mr. Paul Jones, Mr. Edward Svoboda, and Mr. Greg Johnson of Artesian.

The depth to the bottom of the tank was approximately 12 feet below ground surface (BGS). Soils directly below the tank exhibited a strong petroleum odor and contained globules of an oily substance which is apparently weathered heating oil. The presence of petroleum in soils below the UST confirmed that a release of petroleum from the tank has occurred. An unauthorized release report was filed with the ACDEH by Mr. Jones on October 15, 1998.

3.2 SOIL EXCAVATION AND EXPLORATION TRENCHING

After the UST was removed, the ACDEH indicated that soils visually impacted by petroleum should be over-excavated in the immediate vicinity of the former UST location. After over-excavating soils to an approximate excavation size of 20 feet by 15 feet, Artesian found that impacted soils remained in the excavation side-walls and that a thick, free-phase petroleum product was seeping from the walls in some locations at depth. Artesian excavated impacted soils to a depth of approximately 12 feet to 14 feet below ground surface (BGS) where bedrock was encountered. Fractures in the weathered bedrock were found to be impacted with the oily globules to an unknown depth. Artesian, in agreement with the ACDEH, then began exploration trenching to determine the lateral extent of impacted soils.

Artesian excavated petroleum contaminated soil from below and around the former UST location between October 16, 1998 and October 18, 1998. Excavated soil was screened in the field using a PID and segregated into contaminated and non-contaminated stockpiles. Contaminated soils were those that exhibited obvious staining, odor, and elevated levels of organic vapors as detected with the PID. Contaminated soils were stockpiled at the site on plastic sheeting and covered with plastic sheeting on a daily basis. Apparently non-contaminated soils were stockpiled elsewhere at the site for later use as excavation fill material. Equipment used to excavate and move soils at the site included a John Deere 490E Excavator and a Cat 928F front loader.

When soils had been over-excavated in the vicinity of the former UST location and apparently contaminated soils were still visible in the excavation walls, Artesian and the ACDEH agreed that exploration trenching was the next logical step toward determining the extent of contaminated soils prior to any attempt to remediate site soils by excavation and landfill disposal.

Artesian began exploration trenching in a northward direction. The northward trench was excavated to a total depth of approximately 14 feet BGS. Artesian stopped excavating approximately 25 feet north of the north wall of the UST excavation where there were no indications of contamination. Artesian then excavated in a westward direction. The westward trench was extended to approximately 65 feet west of the west wall of the excavation. Westward trenching was stopped due to space constraints, even though free-phase petroleum product was seen to seep slowly from the westernmost end of the trench from a depth of approximately 13 feet BGS. A trench was excavated in a southward direction for approximately 55 feet south of the south wall of the excavation. Trenching was stopped in a southerly direction, even though globules of petroleum product were still present in soils, when the extent of soil contamination was found to be too extensive to feasibly remediate by excavation and land disposal. No trenching was conducted in an easterly direction due to space constraints.

3.3 SOIL AND GROUNDWATER SAMPLING

only 7 were analyzed at lab.

A total of 19 confirmational soil samples were collected from the walls and the floor of the excavation as well as one groundwater sample. A total of 3 wall samples, 4 trench samples, and 2 floor samples were collected from the excavation with the excavator bucket during October 14 through October 19, 1998. Confirmational samples were collected to identify where contamination remains in the excavation and in the trenches. Three soil samples were collected from the excavation walls at depths of approximately 12 feet BGS. Of the three excavation wall samples collected, only the sample CS-North Wall was analyzed. The remaining excavation wall samples were not analyzed because samples were later collected at

the furthest extent of the exploration trenches. Two floor samples were collected from below the UST at an approximate depth of 14.0 feet BGS. One sample was collected from the east end of the UST and one from the west end (samples CS-East and CS-West, respectively). Figure 2, contained in Appendix A, shows location and collection depths for the confirmational soil samples.

Of the four soil samples collected from the exploration trenches, samples West Trench 65-9 and West Trench 65-13 were collected from the westernmost extent of the west exploration trench from depths of 9 feet and 13 feet, respectively. Samples South Trench 45-8 and South Trench 45-13 were collected from the southernmost extent of the south trench from depths of 8 feet and 13 feet BGS, respectively. Soil samples collected from the exploration trenches were collected in pairs at each location so as to identify the contaminant concentrations at the stratigraphic upper bound of contaminated soil as well as in the vadose zone.

On October 22, 1998, a total of ten stockpile samples were collected to determine which soils required disposal and which were suitable for use as backfill material. One discreet soil sample was collected for every 50 cubic yards of apparently non-contaminated soil and one 4-point composite sample was collected for every 100 cubic yards of apparently contaminated soil. The samples were collected into 1-1/2-inch diameter stainless steel liners using a slide hammer, labeled, and immediately placed on ice for transport under chain-of-custody control to McCampbell Analytical (McCampbell), a state certified laboratory located in Pacheco, California. All samples were analyzed in accordance with the requirements of the ACDEH. See section 4.0 of this report for a detailed discussion of the analytes and sample results for soil and groundwater samples.

On October 19, 1998, one groundwater sample was collected from the excavation using a new disposable bailer. Groundwater was decanted into three 40-ml glass vials, two 1 liter glass bottles, and one plastic bottle. The containers of groundwater were immediately labeled and placed in an iced cooler for transport to McCampbell.

3.4 *Soil Loading and Transportation*

On November 13, 1998 and November 19, 1998, Artesian loaded a total of 406 tons of petroleum impacted soils into trucks to be transported to Altamont Landfill. Lutrel Trucking of Byron, California provided transportation services.

3.5 Removal of Asbestos Containing Materials

Approximately 100 linear feet of buried former steam pipes were found to be wrapped with asbestos containing materials. The asbestos had been covered with pitch which was then covered with sheet metal. To prevent dispersal of asbestos containing materials, the pipes were cut into sections of approximately 20 foot lengths and removed with coverings intact. Also to prevent dispersal, asbestos containing materials were misted with water any time they were exposed while cutting pipes into sections. The pipe sections were then sealed in plastic, transported from the site, and disposed as hazardous waste. Asbestos removal activities were conducted on October 18, 1998 and later on November 14, 1998 as additional pipes were found. The pipes were followed and removed until they were found to end in the subsurface. No known asbestos containing materials remain at the site. Enviroworks, of Point Richmond, California, provided properly trained workers to perform asbestos removal activities in accordance with all State and Federal regulations.

4.0 ANALYTICAL

4.1 ANALYSES CONDUCTED

The two confirmation soil samples collected from below the UST were analyzed for total petroleum hydrocarbons as diesel (TPHd) by EPA Method 8015; TPH as oil and grease (TPHog) by EPA Modified Method 8015; methyl tertiary butyl ether (MTBE), benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA Method 8020. Soil sample CS-East was also analyzed for polyaromatic hydrocarbons (PAH) by EPA Method 8270.

A total of 10 stockpile soil samples (CSP-1 through CSP-8, CONSP-1, and CONSP-2) collected from the excavated soil were analyzed for TPHd, TPHog, and BTEX. A total of 6 soil samples (CSP1 through CSP6), collected from the stockpile of clean soil, were also analyzed for TPHg and BTEX. Two of the stockpile soil samples were analyzed for reactivity, corrosivity, and ignitability in accordance with California Title 22, Section 66261.21 through 66261.23. One of the stockpile soil samples was analyzed for lead by EPA Method 6010. All analyses were performed by Mc Campbell Analytical in Pacheco, California, a State licensed laboratory.

4.2 SAMPLE RESULTS

Results of laboratory analyses conducted for samples collected at the site are summarized below. Laboratory analytical reports are contained in Appendix D. Laboratory analytical results for soil and groundwater samples collected from the excavation floor and soils collected from exploration trenches are tabulated in Table 1, contained in Appendix E. Sample results of the analysis of stockpile soil samples are tabulated in Table 2, contained in Appendix E.

4.2.1 Confirmational Soil Samples - Excavation Floor / Sidewall

Two soil samples (CS-East and CS-West) were collected from the floor of the excavation at the direction of the ACDEH from below each end of the UST. TPHd was detected at concentrations of 100 mg/Kg and 1,100 mg/Kg in samples CS-East and CS-west, respectively. TPHg was detected at concentrations of 11 mg/kg and 74 mg/Kg in samples CS-East and CS-West, respectively. TPHog was detected at concentrations of 460 mg/Kg and 2,400 mg/Kg in samples CS-East and CS-west, respectively. Of the BTEX compounds, only toluene and xylenes were detected. Toluene and xylenes were detected at concentrations of or below 0.33 mg/Kg in each of these two samples. MTBE and PAHs were all below appropriate laboratory detection limits in each of these two samples.

Soil sample CS-North wall contained TPHd at 1,300 mg/Kg, TPHog at 760 mg/Kg, and xylenes and toluene at or below 0.380 mg/Kg. Benzene and Ethylbenzene were not detected in this sample.

4.2.2 Confirmational Soil Samples - Exploration Trenches

Results for samples West Trench 65-13 and South Trench 45-13 were similar with TPHd present at or below 2,500 mg/Kg, TPHog at or below 14,000 mg/Kg, toluene at or below 0.067 mg/Kg, and xylenes at or below 0.79 mg/Kg. Results for samples West Trench 65-9 and South Trench 45-8 were also similar with TPHd present at or below 350 mg/Kg, TPHog at or below 460 mg/Kg, ethylbenzene below or near detection limits, and xylenes at

or below 0.028 mg/Kg. BTEX compounds were below detection limits except as described above.

4.2.3 Confirmational Soil Samples - Stockpiles

Sample results for TPHd ranged from near or below laboratory detection limits in samples CSP-1, CSP-2, CSP-4, and CSP-8 to 2,600 mg/Kg in CSP-5. TPHog was below laboratory detection limits in samples CSP-4 and CSP-8. TPHog ranged from 380 mg/Kg in CSP-1 to 3,000 mg/Kg in CSP-6. Benzene was not detected in any of the stockpile samples. Toluene was below detection limits in all samples except CSP-5 where is was near detection limits. Ethylbenzene was below detection limits in all stockpile samples except in samples CSP-5, CSP-6, and CSP-7 where it was near detection limits. Xylenes were below detection limits in all stockpile samples except in samples CSP-7 and CONSP-1 where it was near or slightly above detection limits. Sample CONSP-1 is the only sample analyzed for lead which was below laboratory detection limits. Samples CONSP-1 and CONSP-2 were the only samples analyzed for RCI which was within acceptable limits.

4.2.4 Groundwater from Excavation

Concentrations of TPHg, TPHog, BTEX, MTBE, and PAH were below laboratory detection limits in the groundwater grab sample (GW-1) collected from the excavation on October 29, 1998. TPHd was detected in the groundwater sample at a concentration of 0.92 mg/L.

5.0 NATURE AND EXTENT OF CONTAMINATION

The groundwater sample collected from the UST excavation did not contain significant concentrations of any petroleum hydrocarbons known to be present in impacted soils. If site groundwater away from the excavation were to show similar results, no further action regarding groundwater contamination would be anticipated.

Petroleum impacted soils at the site were found to pinch-out approximately 25 feet north of the excavation. Impacted soils were found to thin from the upper bound downward and away from the UST excavation with the thinnest contaminated interval in the vadose zone at a depth of approximately 12 to 14 feet BGS near the bedrock surface. Bedrock fractures and vadose zone soils were found to contain globules of what appears to be a petroleum product at distances of approximately 20 feet northward, at least 65 feet westward, and at least 45 feet southward from the UST excavation. Globules were not found at the upper limits of impacted soils (approximately 8 to 9 feet BGS). The above information, along with laboratory analytical results which confirm that higher concentrations of petroleum hydrocarbons are found within the vadose zone, indicates that petroleum appears to have migrated predominantly through the vadose zone to an unknown extent. Laboratory analytical results indicate that contaminants present in highest concentrations and of most concern at this site are TPHd and TPHog. No benzene was detected in soil or groundwater at the site. Concentrations of total BTEX were below 1 mg/Kg (mostly xylenes) in site soils.

6.0 WASTE DISPOSAL

Artesian documented the transportation and disposal of a total of 406 tons (approximately 270 cubic yards) of contaminated soil. Soils were loaded by Artesian onto trucks with a Cat 928F loader and transported under non-hazardous manifest by Lutrel Trucking to Altamont Landfill for final disposal as Class II non-hazardous waste. Soils were disposed under Altamont approval number 53785600.

Approximately 300 linear feet of former steam pipes which contained one inner layer of asbestos containing material were transported by Asbestos Management Group of California, of Oakland, California to B and J Sanitary Landfill in Vacaville, California for final disposal. Hazardous waste manifests for asbestos containing materials removed from the site are contained in Appendix C.

7.0 CONCLUSIONS / RECOMMENDATIONS

- One 2,000-gallon heating oil UST was removed and disposed.
- Excavation floor and wall samples confirm an unauthorized release of petroleum has occurred from the UST system.
- Exploration trenching has confirmed that petroleum impacted soils (including those in the vadose zone which contain globules of what appears to be a weathered petroleum product) extends approximately 25 feet in a northward direction, over 65 feet in a westward direction, and over 45 feet in a southward direction from the UST excavation.
- The minimum known volume of petroleum impacted soils at the site is too large for cost-effective remediation by excavation and land disposal.
- Benzene was not detected in any samples at the site.
- A total of 406 tons of petroleum impacted soils were transported from the site for disposal at a Class II landfill.
- Approximately 100 linear feet of a buried former steam pipe which was found to be wrapped with asbestos containing material was properly removed and disposed.

Artesian recommends that approximately 8 to 12 soil borings be installed at the site to delineate the extent of petroleum impacted soils and to determine if remediation is necessary. Artesian also recommends that three of the soil borings be used to collect groundwater samples from one location hydraulically up-gradient of the UST excavation and two locations down-gradient. Laboratory analytical data from the soil borings will be presented in a letter report, along with recommendations for closure or additional necessary action as appropriate.

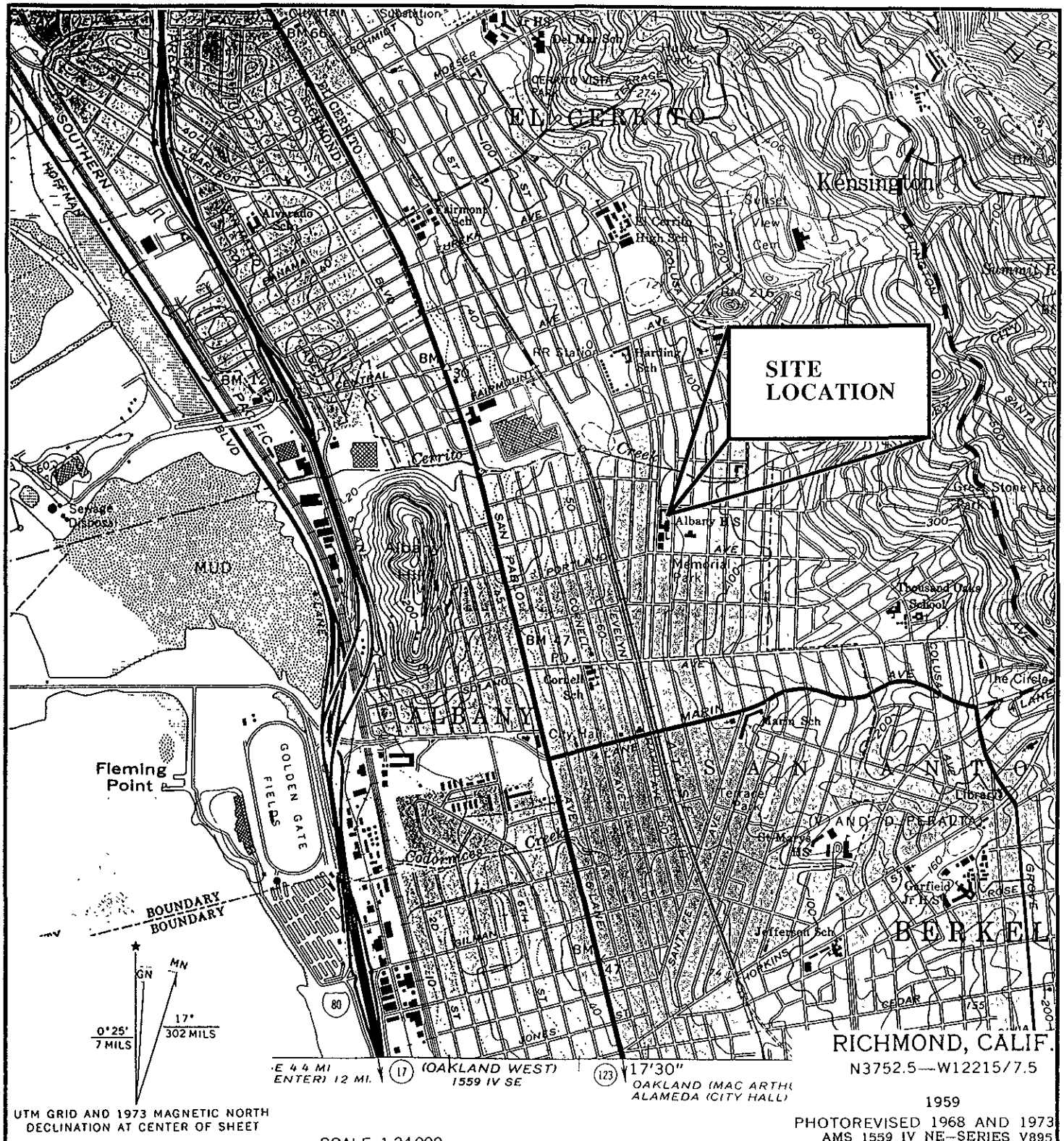
8.0 DISTRIBUTION LIST

Copies of this report have been sent to the following:

Ms. Eva Chu
Alameda County Department of Environmental Health
Environmental Protection Division
1131 Harbor Bay Parkway, Room 250
Alameda, CA 94502-6577

The Albany Unified School District
c/o Mr. Richard Vila
Vila Construction Company
590 South 33rd Street
Richmond, CA 94804

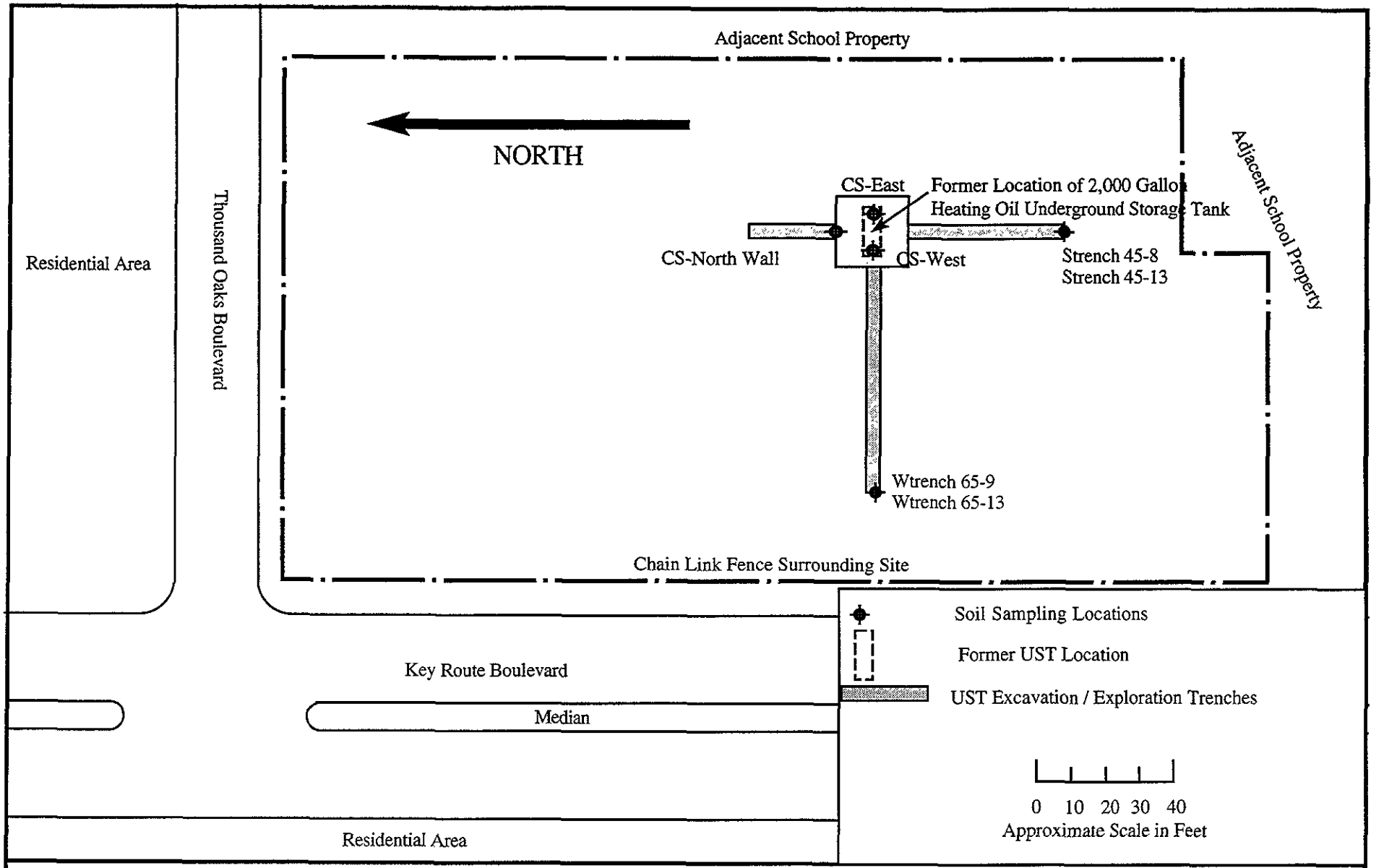
APPENDIX A: FIGURES



ARTESIAN ENVIRONMENTAL
229 Tewksbury Avenue
Point Richmond, California 94801
Phone (510) 307-9943 Fax (510) 232-2823

SITE LOCATION MAP
Albany Unified School District
603 Key Route Boulevard
Albany, California

Project No. 378-001-01	Date: 1/15/99	Drawn by P. Jones	Figure 1



ARTESIAN ENVIRONMENTAL CONSULTANTS
229 Tewksbury Avenue
Point Richmond, California 94801
Phone (510) 307-9943 Fax (510) 232-2823

Site Map
Albany Unified School District
603 Key Route Boulevard
Albany, California

Project No.: 378-001-01	Date: 02/04/99	Prepared by: P. Jones	Figure 2

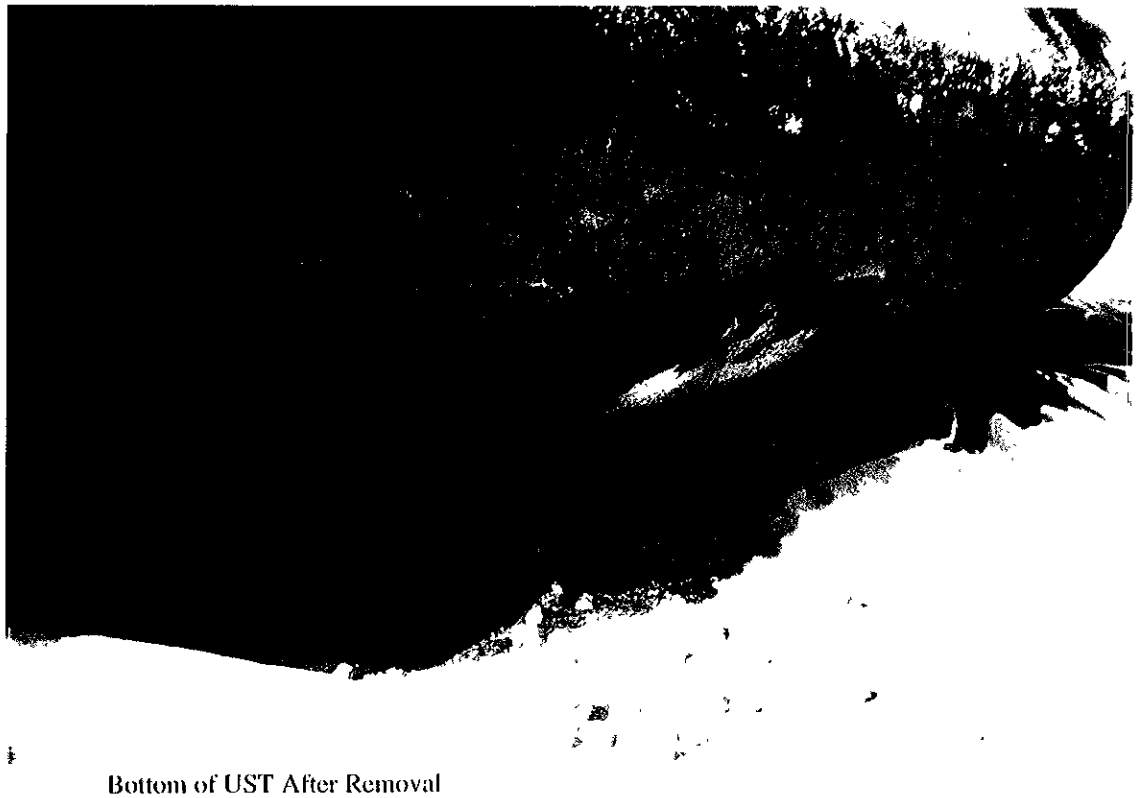
UST In Place Before Removal: West is to Right

West End of UST After Removal

ARTESIAN ENVIRONMENTAL 229 Tewksbury Avenue Point Richmond, California 94801 Phone (510) 307-9943 Fax (510) 232-2823	**PHOTOGRAPHS** New Albany High School 603 Key Route Boulevard Albany, California

Project No: 378-002-01	Date: 02/05/99	Prepared by: P. Jones	Figure 3

East End of UST After Removal



Bottom of UST After Removal

ARTESIAN ENVIRONMENTAL 229 Tewksbury Avenue Point Richmond, California 94801 Phone (510) 307-9943 Fax (510) 232-2823	**PHOTOGRAPHS** New Albany High School 603 Key Route Boulevard Albany, California

Project No 378-002-01	Date: 02/05/99	Prepared by: P. Jones	Figure 4

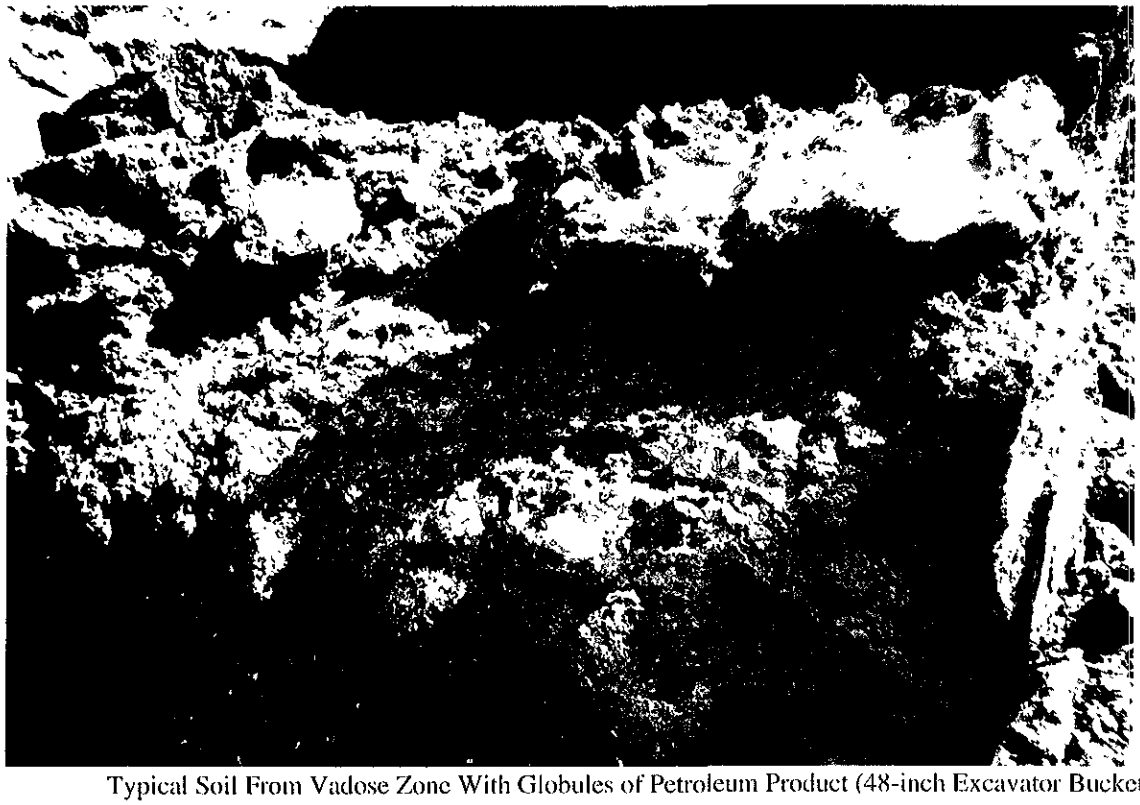
UST Loaded For Transport From the Site

Southeast Corner of Excavation: View Southeast

ARTESIAN ENVIRONMENTAL 229 Tewksbury Avenue Point Richmond, California 94801 Phone (510) 307-9943 Fax (510) 232-2823	**PHOTOGRAPHS** New Albany High School 603 Key Route Boulevard Albany, California

Project No..378-002-01	Date: 02/05/99	Prepared by: P. Jones	Figure 5

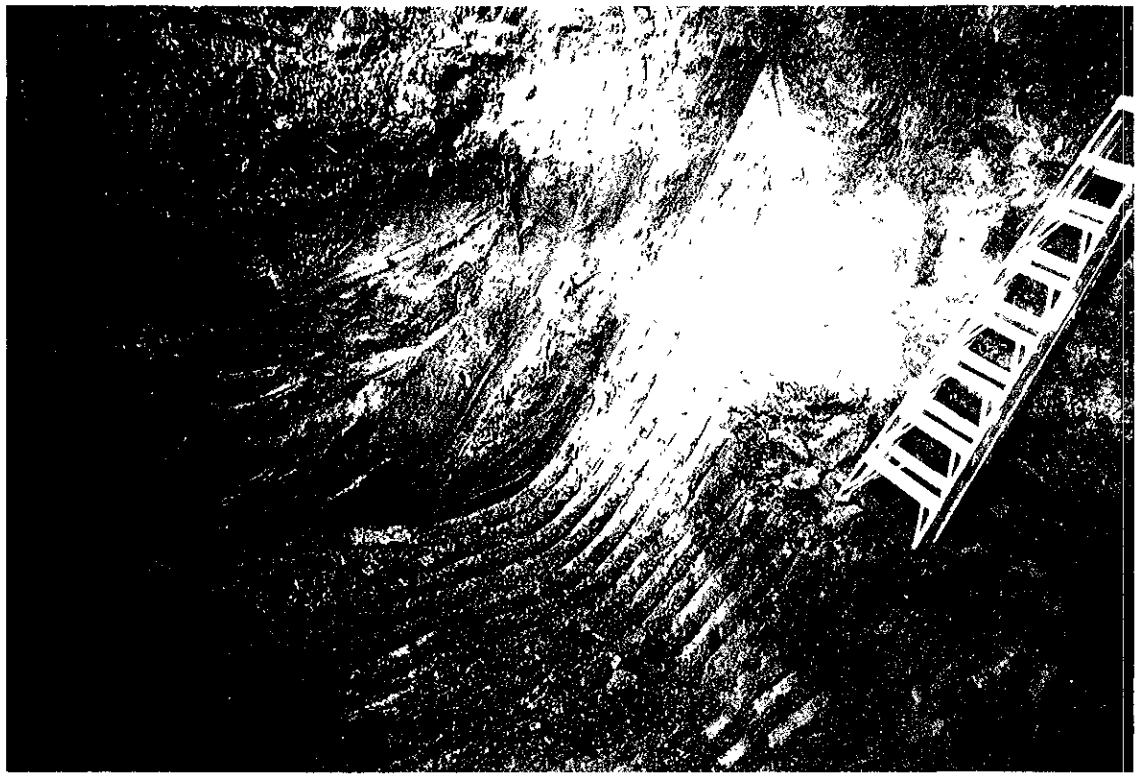
Southwest Corner of Excavation: View Southwest



Typical Soil From Vadose Zone With Globules of Petroleum Product (48-inch Excavator Bucket for Scale)

ARTESIAN ENVIRONMENTAL 229 Tewksbury Avenue Point Richmond, California 94801 Phone (510) 307-9943 Fax (510) 232-2823	**PHOTOGRAPHS** New Albany High School 603 Key Route Boulevard Albany, California

Project No 378-002-01	Date: 02/05/99	Prepared by: P. Jones	Figure 6

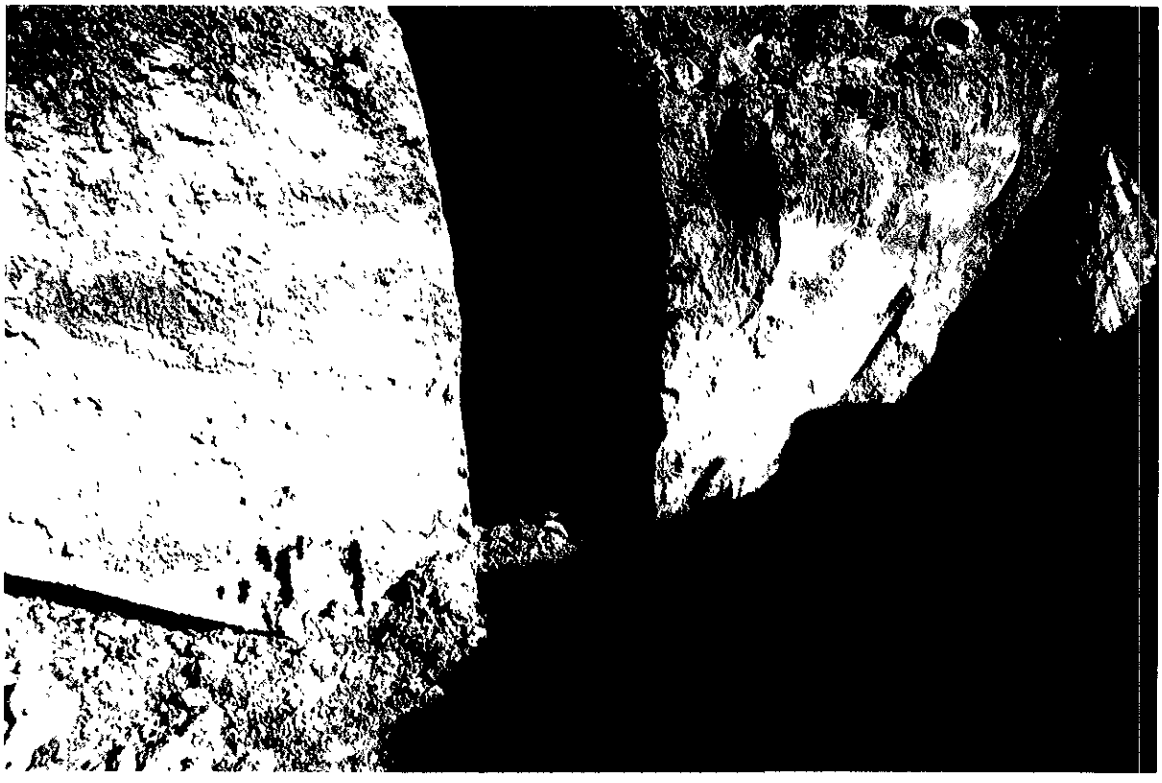


Northeast Corner of Excavation: View Northeast

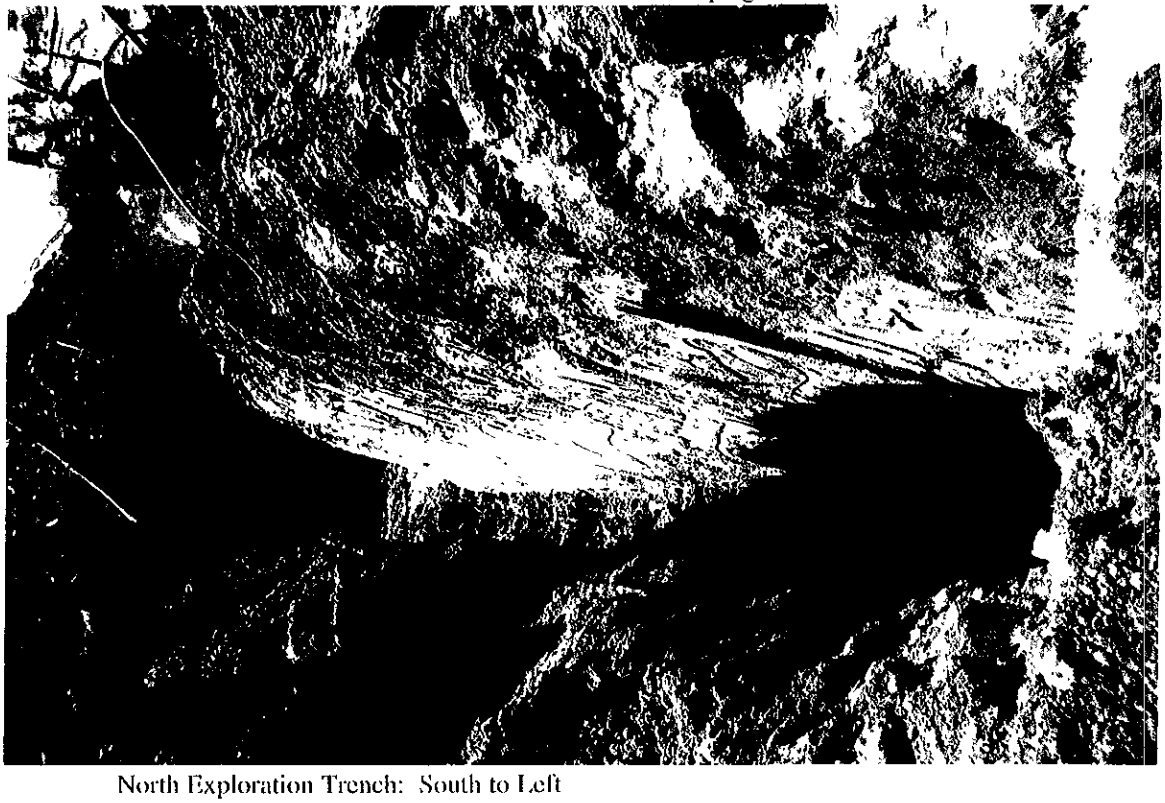
Overview of Excavation: View Southeast

ARTESIAN ENVIRONMENTAL 229 Tewksbury Avenue Point Richmond, California 94801 Phone (510) 307-9943 Fax (510) 232-2823	**PHOTOGRAPHS** New Albany High School 603 Key Route Boulevard Albany, California

Project No. 378-002-01	Date: 02/05/99	Prepared by: P. Jones	Figure 7



North Wall of Excavation with Petroleum Product Seeping From Wall: View North



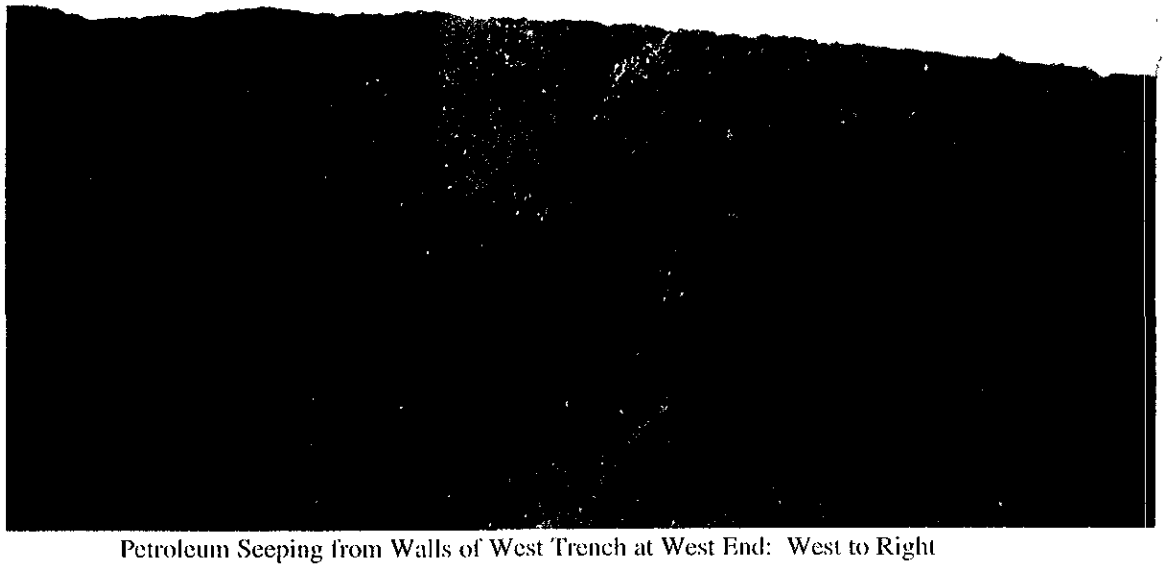
North Exploration Trench: South to Left

ARTESIAN ENVIRONMENTAL
229 Tewksbury Avenue
Point Richmond, California 94801
Phone (510) 307-9943 Fax (510) 232-2823

PHOTOGRAPHS
New Albany High School
603 Key Route Boulevard
Albany, California

Project No.:378-002-01	Date: 02/05/99	Prepared by: P. Jones	Figure 8

West Exploration Trench: View East

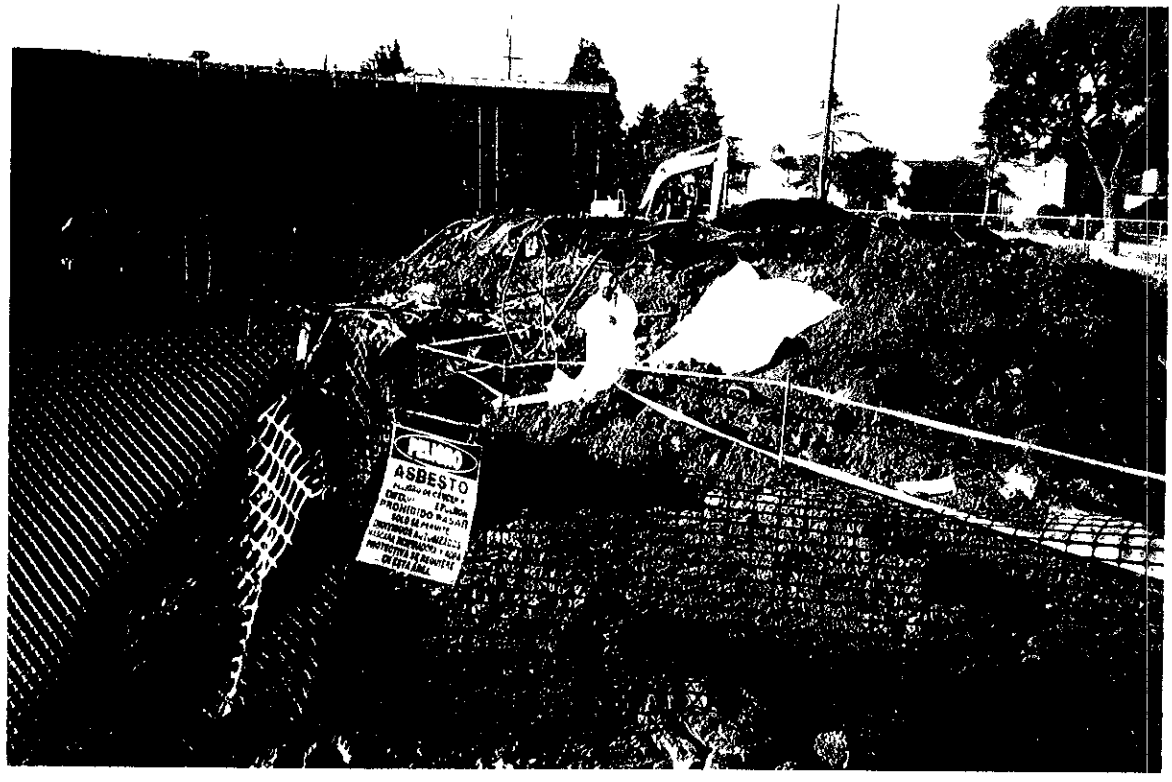


Petroleum Seeping from Walls of West Trench at West End: West to Right

ARTESIAN ENVIRONMENTAL
229 Tewksbury Avenue
Point Richmond, California 94801
Phone (510) 307-9943 Fax (510) 232-2823

PHOTOGRAPHS
New Albany High School
603 Key Route Boulevard
Albany, California

Project No 378-002-01	Date: 02/05/99	Prepared by: P Jones	Figure 9



Asbestos Removal Activities: View Southwest

Asbestos Removal Activities: View Southwest

ARTESIAN ENVIRONMENTAL 229 Tewksbury Avenue Point Richmond, California 94801 Phone (510) 307-9943 Fax (510) 232-2823	**PHOTOGRAPHS** New Albany High School 603 Key Route Boulevard Albany, California

Project No. 378-002-01	Date: 02/05/99	Prepared by: P Jones	Figure 10

APPENDIX B: PERMITS

Scott Seery
Project Specialist

ALAMEDA COUNTY HEALTH CARE SERVICES AGENCY
DEPARTMENT OF ENVIRONMENTAL HEALTH
ENVIRONMENTAL PROTECTION DIVISION
1131 HARBOR BAY PARKWAY, RM 250
ALAMEDA, CA 94502-6577
PHONE # 510/567-6700
FAX # 510/337-9335

SOS 9-29-98 ACCEPTED *

Underground Storage Tank Closure Permit Application
Alameda County Division of Hazardous Materials
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577

These closure/removal plans have been received and found to be acceptable and essentially meet the requirements of State and Local Health Laws. Changes to your closure plans indicated by this Department are to assure compliance with State and local laws. The project proposed herein is now released for issuance of any required building permits for construction/destruction.

One copy of the accepted plans must be on the job and available to all contractors and craftsman involved with the removal.

Any changes or alterations of these plans and specifications must be submitted to this this Department and to the Fire and Building Inspections Department to determine if such changes meet the requirements of State and local laws.

Notify this Department at least 72 hours prior to the following required inspections:

__/__ Removal of Tank(s) and Piping
__/__ Sampling
__/__ Final Inspection

Issuance of a) permit to operate, b) permanent site closure, is dependent on compliance with accepted plans and all applicable laws and regulations.

THERE IS A FINANCIAL PENALTY FOR NOT OBTAINING THESE INSPECTIONS:

Contact Specialist:

* SEE CHANGES

UNDERGROUND TANK CLOSURE PLAN
*** * * Complete according to attached instructions * * ***

1. Name of Business Albany Unified School District
   Business Owner or Contact Person (PRINT) Dale Hudson
2. Site Address Albany High School : 603 Key Route Blvd.
   City Albany Zip 94706 Phone (510) 715-0886
3. Mailing Address 603 Key Route Blvd
   City Albany Zip 94706 Phone (510) 715-0886
4. Property Owner Albany Unified School District
   Business Name (if applicable) Albany High School
   Address 603 Key Route Blvd.
   City, State Albany, CA. Zip 94706
5. Generator name under which tank will be manifested
   Albany High School
   EPA ID# under which tank will be manifested CAL000002358

6. Contractor Artesian Environmental

Address 247 B Tewksbury Ave

City Pt. Richmond, CA. Phone (510) 232-2728

License Type* Gen. Engineering, C-57, HAZ. ID# 624461

*Effective January 1, 1992, Business and Professional Code Section 7058.7 requires prime contractors to also hold Hazardous Waste Certification issued by the State Contractors License Board.

7. Consultant (if applicable) V&A Construction

Address 590 South 33rd Street

City, State Richmond, CA. Phone (510) 236-9111

8. Main Contact Person for Investigation (if applicable)

Name _____ Title _____

Company _____

Phone _____

9. Number of underground tanks being closed with this plan 1

Length of piping being removed under this plan 50 ft.

Total number of underground tanks at this facility (**confirmed with owner or operator) 1

10. State Registered Hazardous Waste Transporters/Facilities (see instructions).

** Underground storage tanks must be handled as hazardous waste **

a) Product/Residual Sludge/Rinsate Transporter

Name Clean water EPA I.D. No. CAR000007013

Hauler License No. 3515 License Exp. Date 12/15/95

Address P.O. Box 7420

City Fremont State CA Zip 94537-7420

b) Product/Residual Sludge/Rinsate Disposal Site

Name Alviso Independent oil EPA ID# CAL 000161 743

Address 5002 Archer Street

City Alviso State CA Zip 95002

c) Tank and Piping Transporter

Name ECT EPA I.D. No. CAD 982 030 173

Hauler License No. 1533 License Exp. Date 3-31-99

Address 255 Parr Blvd.

City Richmond State CA Zip 94801

d) Tank and Piping Disposal Site

Name ECI EPA I.D. No. CAD 982 030 173

Address 255 PARR Blvd.

City Richmond State CA Zip 94801

11. Sample Collector

Name David DeLosso

Company Artesian Environmental

Address 247 B Tewksbury Ave

City Rt Richmond State CA Zip 94801 Phone (510) 232-2728

12. Laboratory

Name Cal coast Analytical

Address 4072 Watts Street

City Emeryville State CA Zip 94608

State Certification No. 1236 exp 7/31/00

13. Have tanks or pipes leaked in the past? Yes[ ] No[ ] Unknown[✓]

If yes, describe. _____

14. Describe methods to be used for rendering tank(s) inert:

Tank will be Pumped and rendered inert with 30-50 lbs of Dry Ice and monitored with a Tank Detector (LEL, O_2 meter) PER FIRE DEPT REQUIREMENTS

Before tanks are pumped out and inerted, all associated piping must be flushed out into the tanks. All accessible associated piping must then be removed. Inaccessible piping must be permanently plugged.

The Bay Area Air Quality Management District, 415/771-6000, along with local Fire and Building Departments, must also be contacted for tank removal permits. Fire departments typically require the use of a combustible gas indicator to verify tank inertness. It is the **contractor's responsibility to bring a working combustible gas indicator on-site to verify that the tank is inert.**

15. Tank History and Sampling Information *** (see instructions) ***

Tank		Material to be sampled (tank contents, soil, groundwater)	Location and Depth of Samples
Capacity	Use History include date last used (estimated)		
2200 gallon	Installed in 1939 Last used unknown (Abandon Tank) In 1939, the Tank was moved 20 feet westward due to construction of a new Auditorium the tank was abandon in the 50's - 60's.	- Soils: All four sides of the excavation - Soils: 2 Samples beneath Tank - ground water is expected at 20 ft.	Side wall Samples ≈ 7-9 feet below grade Bottom Samples ≈ 10-12 feet below grade - No water Sample, unless it is effected.

One soil sample must be collected for every 20 linear feet of piping that is removed. A ground water sample must be collected if any ground water is present in the excavation.

Excavated/Stockpiled Soil	
Stockpiled Soil Volume (estimated) 100 yds of Soil to be excacted and Stockpiled	**Sampling Plan** A composite Sample for every 25 yds of Soil Removed. impacted Soil will be hauled off-Site.

Stockpiled soil must be placed on bermed plastic and must be completely covered by plastic sheeting.

Will the excavated soil be returned to the excavation immediately after tank removal? [ ] yes [✓] no [ ] nknown

If yes, explain reasoning _____

If unknown at this point in time, please be aware that excavated soil may not be returned to the excavation without prior approval from Alameda County. This means that the contractor, consultant, or responsible party must communicate with the Specialist IN ADVANCE of backfilling operations.

16. Chemical methods and associated detection limits to be used for analyzing samples:
The Tri-Regional Board recommended minimum verification analyses and practical quantitation reporting limits should be followed.
See attached Table 2.

17. Submit Site Health and Safety Plan (See Instructions)

Contaminant Sought	EPA or Other Sample Preparation Method Number	EPA or Other Analysis Method Number	Method Detection Limit
TPH-diesel	Soil - Stainless Steel Liner /w Teflon Cap.	8015; SW 846	GC ~~<0.1 mg/kg~~ <10 mg/kg
TEPH	Soil - Stainless Steel Liner /w Teflon Cap	3550/8015; SW 846	GC/ extraction <0.1 mg/kg
BTEX	Soil - Stainless Steel Liner /w Teflon Cap	8020; SW 846	GC <~~0.5~~ 5.0 µg/kg
O & G	Soil - stainless Steel Liner /w Teflon Cap	5520	GC 50 mg/kg
TPH-diesel TEPH BTEX O & G	Water - VOA Bottle	S/A	S/A

- SEE TABLE 2 -

18. Submit Worker's Compensation Certificate copy

Name of Insurer ENV. Eng. & Ins. Svcs. - STATE FUND

19. Submit Plot Plan ***(See Instructions)***

20. Enclose Deposit (See Instructions)

21. **Report any leaks or contamination to this office within 5 days of discovery.**
The written report shall be made on an Underground Storage Tank Unauthorized Leak/Contamination Site Report (ULR) form.

22. **Submit a closure report to this office within 60 days of the tank removal. The report must contain all information listed in item 22 of the instructions.**

23. Submit State (Underground Storage Tank Permit Application) Forms A and B (one B form for each UST to be removed) (mark box 8 for "tank removed" in the upper right hand corner)

I declare that to the best of my knowledge and belief that the statements and information provided above are correct and true.

I understand that information, in addition to that provided above, may be needed in order to obtain approval from the Environmental Protection Division and that no work is to begin on this project until this plan is approved.

I understand that any changes in design, materials or equipment will void this plan if prior approval is not obtained.

I understand that all work performed during this project will be done in compliance with all applicable OSHA (Occupational Safety and Health Administration) requirements concerning personnel health and safety. I understand that site and worker safety are solely the responsibility of the property owner or his agent and that this responsibility is not shared nor assumed by the County of Alameda.

Once I have received my stamped, accepted closure plan, I will contact the project Hazardous Materials Specialist at least three working days in advance of site work to schedule the required inspections.

CONTRACTOR INFORMATION

Name of Business Artesian Environmental

Name of Individual David DeLOsso

Signature D DeLOsso Date 9/10/98

PROPERTY OWNER OR MOST RECENT TANK OPERATOR (Circle one)

Name of Business Albany Unified School District

Name of Individual D.L. Hudson

Signature D DeLOsso for Dale Hudson Date 9/10/98

General Instructions

* Three (3) copies of this plan plus attachments and a deposit must be submitted to this Department.
* Any cutting into tanks requires local fire department approval.
* One complete copy of your approved plan must be at the construction site at all times; a copy of your approved plan must also be sent to the landowner.
* State of California Permit Application Forms A and B are to be submitted to this office. One Form A per site, one Form B for each removed tank.

Line Item Specific Instructions

2. SITE ADDRESS
   Address at which closure is taking place.

5. EPA I.D. NO. under which the tanks will be manifested
   EPA I.D. numbers may be obtained from the State Department of Toxic Substances Control, 916/324-1781.

6. CONTRACTOR
   Prime contractor for the project.

10. STATE REGISTERED HAZARDOUS WASTE TRANSPORTERS/FACILITIES

    a) All residual liquids and sludges are to be removed from tanks before tanks are inerted.

    c) Tanks must be hauled as hazardous waste.

    d) This is the place where tanks will be taken for cleaning.

15. TANK HISTORY AND SAMPLING INFORMATION
    Use History - This information is essential and must be accurate. Include tank installation date, products stored in the tank, and the date when the tank was last used.

    Material to be sampled - e.g. water, oil, sludge, soil, etc.

    Location and depth of samples - e.g. beneath the tank a maximum of two feet below the native soil/backfill interface, side wall at the high water mark, etc.

NOTE: These requirements are excerpts from 29 CFR Part 1910.120(b)(4), Hazardous Waste Operations and Emergency Response; Final Rule, March 6, 1989. Safety plans of certain underground tank sites may need to meet the complete requirements of this Rule.

19. PLOT PLAN
The plan should consist of a scaled view of the facility at which the tank(s) are located and should include the following information:

a) Scale;

b) North Arrow;

c) Property Lines;

d) Location of all Structures;

e) Location of all relevant existing equipment including tanks and piping to be removed and dispensers;

f) Streets;

g) Underground conduits, sewers, water lines, utilities;

h) Existing wells (drinking, monitoring, etc.);

i) Depth to ground water; and

j) All existing tank(s) and piping in addition to the tank(s) being removed.

20. DEPOSIT
A deposit, payable to "County of Alameda" for the amount indicated on the Alameda County Underground Storage Tank Fee Schedule, must accompany the plans.

21. Blank Unauthorized Leak/Contamination Site Report forms may be obtained in limited quantities from this office or from the San Francisco Bay Regional Water Quality Control Board (510/286-1255). Larger quantities may be obtained directly from the State Water Resources Control Board at (916) 739-2421.

22. TANK CLOSURE REPORT
The tank closure report should contain the following information:

a) General description of the closure activities;

b) Description of tank, fittings and piping conditions. Indicate tank size and former contents; note any corrosion, pitting, holes, etc.;

EXPLANATION FOR TABLE #2: MINIMUM VERIFICATION ANALYSIS

1. OTHER METHODOLOGIES are continually being developed and as methods are accepted by EPA or DHS, they also can be used.

2. For DRINKING WATER SOURCES, EPA recommends that the 500 series for volatile organics be used in preference to the 600 series because the detection limits are lower and the QA/QC is better.

3. APPROPRIATE STANDARDS for the materials stored in the tank are to be used for all analyses on Table #2. For instance, seasonally, there may be five different jet fuel mixtures to be considered.

4. To AVOID FALSE POSITIVE detection of benzene, benzene-free solvents are to be used.

5. TOTAL PETROLEUM HYDROCARBONS (TPH) as gasoline (G) and diesel (D) ranges (volatile and extractible, respectively) are to be analyzed and characterized by GCFID with a fused capillary column and prepared by EPA method 5030 (purge and trap) for volatile hydro- carbons, or extracted by sonication using 3550 methodology for extractable hydrocarbons. Fused capillary columns are preferred to packed columns; a packed column may be used as a "first cut" with "dirty" samples or once the hydrocarbons have been characterized and proper QA/QC is followed.

6. TETRAETHYL LEAD (TEL) analysis may be required if total lead is detected unless the determination is made that the total lead concentration is geogenic (naturally occurring).

7. CHLORINATED HYDROCARBONS (CL HC) AND BENZENE, TOLUENE, XYLENE AND ETHYLBENZENE (BTX&E) are analyzed in soil by EPA methods 8010 and 8020 respectively, (or 8240) and in water, 601 and 602, respectively (or 624).

8. OIL AND GREASE (O & G) may be used when heavy, straight chain hydrocarbons may be present. Infrared analysis by method 418.1 may also be acceptable for O & G if proper standards are used. **Standard Methods" 17th Edition, 1989, has changed the 503 series to 5520.**

9. **PRACTICAL QUANTITATION REPORTING LIMITS are influenced by matrix problems and laboratory QA/QC procedures. Following are the Practical Quantitation Reporting Limits:**

	SOIL PPM	WATER PPB
TPH G	1.0	50.0
TPH D	1.0	50.0
BTX&E	0.005	0.5
O & G	50.0	5,000.0

Based upon a Regional Board survey of Department of Health Services Certified Laboratories, the Practical Quantitation Reporting Limits are attainable by a majority of laboratories with the exception of diesel fuel in soils. The Diesel Practical Quantitation Reporting Limits, shown by the survey, are:

ROUTINE	MODIFIED PROTOCOL
≤ 10 ppm (42%)	≤ 10 ppm (10%)
≤ 5 ppm (19%)	≤ 5 ppm (21%)
≤ 1 ppm (35%)	≤ 1 ppm (60%)

When the Practical Quantitation Reporting Limits are not achievable, an explanation of the problem is to be submitted on the laboratory data sheets.

10. LABORATORY DATA SHEETS are to be signed and submitted and include the laboratory's assessment of the condition of the samples on receipt including temperature, suitable container type, air bubbles present/absent in VOA bottles, proper preservation, etc. The sheets are to include the dates sampled, submitted, prepared for analysis, and analyzed.

11. IF PEAKS ARE FOUND, when running samples, that do not conform to the standard, laboratories are to report the peaks, including any unknown complex mixtures that elute at times varying from the standards. Recognizing that these mixtures may be contrary to the standard, they may not be readily identified; however, they are to be reported. At the discretion of the LIA or Regional Board the following information is to be contained in the laboratory report:

    The relative retention time for the unknown peak(s) relative to the reference peak in the standard, copies of the chroma- togram(s), the type of column used, initial temperature, temperature program is C/minute, and the final temperature.

12. REPORTING LIMITS FOR TPH are: gasoline standard ≤ 20 carbon atoms, diesel and jet fuel (kerosene) standard ≤ 50 carbon atoms. It is not necessary to continue the chromatography beyond the limit, standard, or EPA/DHS method protocol (whichever time is greater).

EPILOGUE

ADDITIVES: Major oil companies are being encouraged or required by the federal government to reformulate gasoline as cleaner burning fuels to reduce air emissions. MTBE (Methyl-tertiary butyl ether), ETHANOL (ethyl alcohol), and other chemicals may be added to reformulate gasolines to increase the oxygen content in the fuel and thereby decrease undesirable emissions (about four percent with MTBE). MTBE and ethanol are, for practical purposes, soluble in water. The removal from the water column will be difficult. Other compounds are being added by the oil companies for various purposes. The refinements for detection and analysis for all of these additives are still being worked out. If you have any questions about the methodology, please call your Regional Board representative.

white -env.health
yellow -facility
pink -files

ALAMEDA COUNTY, DEPARTMENT OF ENVIRONMENTAL HEALTH

1131 Harbor Bay Pkwy.
Suite 250
Alameda, CA 94502-6577
(510) 567-6700

Hazardous Materials Inspection Form

II,III

Site ID # ____ Site Name Albany High School Today/Date 10/14/98

Site Address 603 Key Route

City Albany Zip 94706 Phone ____

___ MAX AMT stored > 500 lbs, 55 gal., 200 cft.?

Inspection Categories:
___ I. Haz. Mat/Waste GENERATOR/TRANSPORTER
___ II. Business Plans, Acute Hazardous Materials
X III. Underground Tanks Removal

* Calif. Administration Code (CAC) or the Health & Safety Code (HS&C)

II.A BUSINESS PLANS (Title 19)

___	1. Immediate Reporting	2703
___	2. Bus. Plan Stds.	25503(b)
___	3. RR Cars > 30 days	25503.7
___	4. Inventory Information	25504(a)
___	5. Inventory Complete	2730
___	6. Emergency Response	25504(b)
___	7. Training	25504(c)
___	8. Deficiency	25505(a)
___	9. Modification	25505(b)

II.B ACUTELY HAZ. MAT'LS

___	10. Registration Form Filed	25533(a)
___	11. Form Complete	25533(b)
___	12. RMPP Contents	25534(c)
___	13. Implement Sch. Req'd? (Y/N)	___
___	14. OffSite Conseq. Assess.	25524(c)
___	15. Probable Risk Assessment	25534(d)
___	16. Persons Responsible	25534(g)
___	17. Certification	25534(f)
___	18. Exemption Request? (Y/N)	25536(b)
___	19. Trade Secret Requested?	25538

III. UNDERGROUND TANKS (Title 23)

General

___	1. Permit Application	25284 (H&S)
___	2. Pipeline Leak Detection	25292 (H&S)
___	3. Records Maintenance	2712
___	4. Release Report	2651
___	5. Closure Plans	2670

Monitoring for Existing Tanks

___ 6. Method
1) Monthly Test
2) Daily Vadose
Semi-annual gndwater
One time soils
3) Daily Vadose
One time soils
Annual tank test
4) Monthly Gndwater
One time soils
5) Daily Inventory
Annual tank testing
Cont pipe leak det
Vadose/gndwater mon.
6) Daily Inventory
Annual tank testing
Cont pipe leak det
7) Weekly Tank Gauge
Annual tank tstng
8) Annual Tank Testing
Daily Inventory
9) Other ____

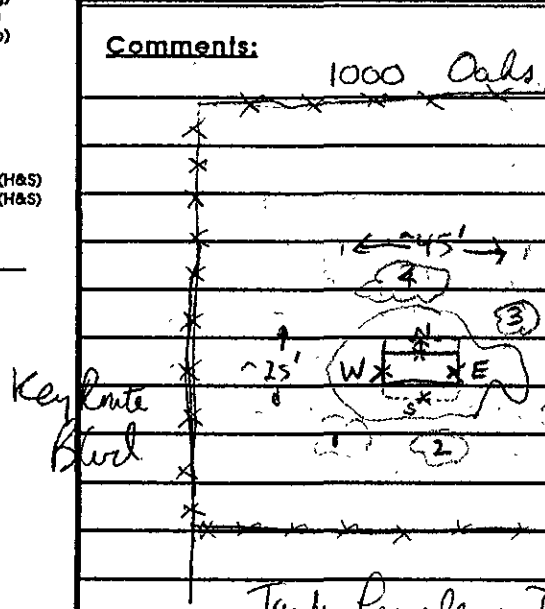
___	7. Precis Tank Test Date: ____	2643
___	8. Inventory Rec.	2644
___	9. Soil Testing.	2646
___	10. Ground Water.	2647

New Tanks

___	11. Monitor Plan	2632
___	12. Access. Secure	2634
___	13. Plans Submit Date: ____	2711
___	14. As Built Date: ____	2635

Rev 6/88

Comments:



Present to witness the removal of 1-2000 gal US single wall steel - no overexcavation
3% O_2, 0% LEL
Contractor: Vila Construction
Steve Redondo
Artesian Env - Paul Jones
Albany Fire: Bryan Crude
Fast Tek - Sampling Service
Tank Hauler: Dexamar → Enchrom
Tank has some stained & oily soils caked on it, possibly from overfilling
Orig Stockpiles: (1) ≈ 10x25x5 ≈ 50cy
(2) 15x25x6 ≈ 90cy
(3) 15x18x6 ≈ 50cy - generated from exploratory exc for
(4) 25x30x6 ≈ 150cy possible older UST - may not
The tank is believed to have been a heating oil tank for the schools boiler
soil sand a sandy silt

II, III

Contact: Paul Jones
Title: ~~Artesian~~ Project Manager Inspector: BCHAN
Signature: X Signature: BChan

white -env.health
yellow -facility
pink -files

ALAMEDA COUNTY, DEPARTMENT OF ENVIRONMENTAL HEALTH

Hazardous Materials Inspection Form

1131 Harbor Bay Pkwy.
Suite 250
Alameda, CA 94502-6577
(510) 567-6700

II, III

Site ID # ____ Site Name Albany High School Today's Date 5/14/98

Site Address 603 Key Route Blvd

City Albany Zip 94706 Phone ____

____ MAX AMT stored > 500 lbs, 55 gal., 200 cft.?

Inspection Categories:
____ I. Haz. Mat/Waste GENERATOR/TRANSPORTER
____ II. Business Plans, Acute Hazardous Materials
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* Calif. Administration Code (CAC) or the Health & Safety Code (HS&C)

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___	5. Inventory Complete	2730
___	6. Emergency Response	25504(b)
___	7. Training	25504(c)
___	8. Deficiency	25505(a)
___	9. Modification	25505(b)

II.B ACUTELY HAZ. MAT'LS

___	10. Registration Form Filed	25533(a)
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___ 6. Method
1) Monthly Test
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Semi-annual gndwater
One time soils
3) Daily Vadose
One time soils
Annual tank test
4) Monthly Gndwater
One time soils
5) Daily Inventory
Annual tank testing
Cont pipe leak det
Vadose/gndwater mon.
6) Daily Inventory
Annual tank testing
Cont pipe leak det
7) Weekly Tank Gauge
Annual tank tstng
8) Annual Tank Testing
Daily Inventory
9) Other ____

___	7. Precis Tank Test Date: ____	2643
___	8. Inventory Rec.	2644
___	9. Soil Testing.	2646
___	10. Ground Water.	2647

New Tanks

___	11. Monitor Plan	2632
___	12. Access, Secure	2634
___	13. Plans Submit Date: ____	2711
___	14. As Built Date: ____	2635

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Comments:
GW not encountered in pit
The pit cavity was excavated ~2' below UST & soil spled from east & west ends.
East spl: blue gray sandy silt only veins appar. or gravel (bottom) Tank depth ~13', spl taken ~16' bgs
West end spl - blue gray sandy, gravely, silt w/ wet pockets which ooze from soil ~16' bgs (a 2nd spl collected as dup same depth as spls). Site is obviously impacted & will want to see if additional excavation is warranted given proximity to GW (anticipated)
N wall spl taken ~8' bgs w/ slide hammer directly into wall
S wall spl ~13' bgs, taken from bucket, blue gray gravel/silt (bedrock)
PLS. run initial E+W spls for TPHd, g, BTEX & TOG
~50-100 cy addtl soil excavated from the overseas of sidewalks. Stockpiles will be sampled in the future due to potential of addtl OX.
PLS contact Scott Seary for followup inspections/questions - another spl from west end ~16' bgs. Next only blue gray gravely silt.

II, III

Contact: Paul Jones

Title: Artesian Project Manager Inspector: B. CHAN

Signature: X Signature: BChan

COMMUNITY DEVELOPMENT AND ENVIRONMENTAL RESOURCES PERMIT

PROPERTY OWNER: AUSD TEL.: ______

ADDRESS: ______ CITY: ______ ZIP: ______

PERMIT NO. 71131

DATE: 10/14/98 VALUE: ______

BY:

______ STATE LIC. NO.: ______

______ CITY: ______ ZIP: ______

NESS NO.: ______ CONTACT: ______

JOB DESCRIPTION: Tank removal

COMMUNITY DEVELOPMENT & ENVIRONMENTAL RESOURCES DEPARTMENT (510) 528-5760

SPECTOR ON THE DAY OF YOUR INSPECTION OR AS REQUESTED BY THE INSPECTOR. THE REQUIRED APPROVAL OF ALL INSPECTIONS IS NECESSARY BEFORE IS SIGNED BEFORE PROCEEDING WITH FURTHER WORK. ANY WORK DONE WITHOUT PROPER INSPECTIONS WILL BE CONSIDERED AS ILLEGAL CONSTRUCTION ***T WILL BECOME VOID IF THE WORK HAS NOT COMMENCED WITHIN 180 DAYS OF PERMIT ISSUANCE, IF WORK HAS BEEN SUSPENDED FOR 180 D LEGITIMATE INSPECTION HAS BEEN CALLED FOR WITHIN ANY OF THE 180 DAY PERIODS.***

DO NOT APPLY FLOOR SHEATHING UNTIL THE ABOVE ITEMS HAVE BEEN APPROVED			
SHEAR NAIL			
ROOF NAIL			
RE-ROOF TEAROFF			
RE-ROOF FINAL			
FLOOR SHEATHING			
ROUGH FRAMING			
ROUGH ELECTRICAL			
ROUGH PLUMBING-DWV			
ROUGH PLUMBING WATER			
SHOWER PAN			
STORM DRAINS			
ROOF/FLOOR DRAINS			
ROUGH MECHANICAL			
GAS PIPING INSTALLATION			
GAS PIPING TEST			
FIRE ALARM SYS PLACEMENT			
FIRE SPRINKLER PLACEMENT			
DO NOT INSTALL INSULATION UNTIL THE ABOVE ITEMS HAVE BEEN APPROVED			
INSULATION WALLS			
INSULATION CEILING			
DO NOT APPLY WALLBOARD UNTIL THE ABOVE ITEMS HAVE BEEN APPROVED			
DRYWALL			
WETWALL			
BATHROOM GREENBOARD			
INTERIOR LATH			
DO NOT CONCEAL FASTENERS UNTIL THE ABOVE ITEMS HAVE BEEN APPROVED			
EXTERIOR LATH			
DO NOT APPLY STUCCO UNTIL THE ABOVE ITEMS HAVE BEEN APPROVED			
FINAL CRB, GTR, SWK.			
FINAL SEWER LATERAL			
FINAL ZONING			
FINAL ENV. RESOURCES			
FINAL PLANNING			
SMOKE DET. PLACEMENT			
SMOKE DET. TEST			
FIRE SPRINKLER TEST			
FIRE ALARM TEST			
LIFE SAFETY INSP.	10/14/98	B. Cuddo Fun	
FINAL FIRE DEPT.	10/14/98	B. Cuddo Fun	– Safe Operation
THE ABOVE CLEARANCES MUST BE SIGNED OFF PRIOR TO CALLING FOR A FINAL INSPECTION			
FIVE DAY NOTIFICATION REQUIRED FOR ALL FINAL INSPECTIONS.			
SERVICE CHANGE			
TEMP. PERM. POWER			
FINAL BUILDING			
FINAL MECHANICAL			
FINAL PLUMBING			
FINAL ELECTRICAL			
FINAL ELECTRICAL TAG			
INSULATION CERT.			
INSTALLATION CERT.			
FINAL GAS TAG			

License Class A, B, C57 Lic. Number 624461

Exp. Date 6/31/99 Licensee Arizona Environmental

OWNER-BUILDER DECLARATION

I hereby affirm that I am exempt from the Contractor's License Law for the following reason (Sec. 7031.5, Business and Professions Code: Any city or county which requires a permit to construct, alter, improve, demolish, or repair any structure, prior to its issuance, also requires the applicant for such permit to file a signed statement that he is licensed pursuant to the provisions of the Contractor's License Law (Chapter 9 (commencing with Sec. 7000) of Division 3 of the Business and Professions Code, or that he is exempt therefrom and the basis for the alleged exemption. Any violation of Section 7031.5 by any applicant for a permit subjects the applicant to a civil penalty of not more than five hundred dollars ($500).):

☐ I, as owner of the property, or my employees with wages as their sole compensation, will do the work, and the structure if not intended or offered for sale (Sec. 7044, Business and Professions Code: The Contractor's License Law does not apply to an owner of property who builds or improves thereon, and who does such work himself or through his own employees, provided that such improvements are not intended or offered for sale. If, however, the building or improvement is sold within one year of completion, the owner-builder will have the burden of proving that he did not build or improve for the purpose of sale.)

☐ I, as owner of the property, am exclusively contracting with licensed contractors to construct the project (Sec. 7044, Business and Professions Code: The Contractor's License Law does not apply to an owner of property who builds or improves thereon, and who contracts for such projects with a contractor(s) licensed pursuant to the Contractor's License Law.). All such Construction must obtain City Bus. Lic.

☐ I am exempt under Sec. _____, B. & P.C. for this reason _____

Signature of owner Date

WORKERS' COMPENSATION DECLARATION

I hereby affirm that I have a certificate of consent to self-insure, or a certificate of Workers' Compensation Insurance, or a certified copy thereof (Sec. 3800, Labor Code).

Policy # LA-092-000197-98 Company Name Arizona Environmental

☐ Certified copy is hereby furnished.

☐ Certified copy is filed with the city building inspection department.

Applicant Paul Jones Date 10/14/98

CERTIFICATE OF EXEMPTION FROM WORKERS' COMPENSATION INSURANCE

(This section need not be completed if the permit is for one hundred dollars ($100) or less.) I certify that in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to the Workers' Compensation Laws of California

Signature Date

NOTICE TO APPLICANT: If, after making this Certificate of Exemption, you should become subject to the Workers' Compensation provisions of the Labor Code, you must forthwith comply with such provisions or this permit shall be deemed revoked.

CONSTRUCTION LENDING AGENCY

I hereby affirm that there is a construction lending agency for the performance of the work for which this permit is issued. (Sec. 3097, Civil Code).

LENDERS NAME _____

LENDERS ADDRESS _____

DO NOT CONCEAL OR COVER ANY CONSTRUCTION UNTIL THE WORK IS INSPECTED AND THE INSPECTION IS RECORDED. ALL INSPECTION REQUESTS ARE REQUIRED 24 HOURS IN ADVANCE OF THE INSPECTION.

I CERTIFY THAT I HAVE READ THIS APPLICATION AND STATE THAT THE INFORMATION GIVEN IS TRUE AND CORRECT. I AGREE TO COMPLY WITH ALL LOCAL ORDINANCES AND STATE LAWS RELATING TO BUILDING CONSTRUCTION AND MAKE THIS STATEMENT UNDER PENALTY OF LAW. I HEREBY AUTHORIZE REPRESENTATIVES OF THIS CITY TO ENTER UPON THE ABOVE MENTIONED PROPERTY FOR INSPECTION PURPOSES. I AGREE TO SAVE, INDEMNIFY AND HOLD HARMLESS THE CITY OF ALBANY AGAINST ALL LIABILITIES, JUDGEMENTS, COSTS AND EXPENSES WHICH MAY IN ANY WAY ACCRUE AGAINST SAID CITY AS A RESULT OF THE GRANTING OF THIS PERMIT.

Signature of Applicant or Agent 10/14/98 Date

NOTE: When properly validated this form constitutes a Building Permit. This permit expires and becomes null and void should work not be commenced within 180 days from the date of approval, or should authorized construction be suspended or abandoned for a period of 180 days after work is commenced

WC	LAV.	BATH T.	SHOWER	SINK	DISHWASHER	LAUNDRY T.	SPA
CLOTHES WASHER	FLOOR SINK	URINAL	DRINKING FOUNTAIN	GAS SYSTEMS OUTLETS	WATER HTR.		
WASTE INTERCEPTER	SEWER C.O.	SEWER	WTR. PIPING SYSTEMS	OTHER	PER 100 SQ. FT.		

ELECTRICAL PERMIT

CONTRACTOR

STATE LICENSE NO. AND CLASSIFICATION

FEE $

SERVICE AMP	CIRCUITS	OUTLETS	FIXTURES	SWITCHES	WATER HTR.	RANGE	DRYER
DISPOSAL	DISHWASHER	SPA	FANS/MOTORS	PER 100 SQ. FT.			

HEATING / COOLING PERMIT

CONTRACTOR

STATE LICENSE NO. AND CLASSIFICATION

FEE $

FURN.	DUCT/FLUE	HOOD	COMP.	AIR COND.	OTHER	PER 100 SQ. FT.

DEPARTMENT USE ONLY

Plans received by _____ Date 10/14/98

Value of Project $ _____

Construction Permit Fee	$
Plumbing Permit Fee	$
Electrical Permit Fee	$
Heating/Cooling Permit Fee	$
Plan Check Fee	$
Sewer Connection Fee	$
S.M.I.P.	$
Capital Improvement Fee	$
School Impact Tax	$
Right of Way Usage Fee	$
Fire Department Fee Mech. Permit	$ 65.00
Other	$
Surcharges	$
Total	$ 95.00

Comments

APPROVALS

PLANNING _____

ENGINEERING _____

FIRE Approved FM 10/14/98

OTHER _____

PERMIT APPROVE _____

DATE _____

Yellow - File **Pink - Inspector** **White - Job**

PERMIT APPLICATION

City of Albany

1000 SAN PABLO, ALBANY CA. 94706
PUBLIC WORKS OFFICE

FOR INSPECTION - PHONE: 528-5760

A.P. NO:

PERMIT NO. 71131

DATE 10/4/98

TOTAL FEES, TAXES AND DEPOSITS

FOR APPLICANT TO FILL IN

BUILDING PROJECT IDENTIFICATION

Address of Building: 603 Key Route Blvd.
Owner(s) Name: Albany Unified School Dist.
Telephone No.: (510) 715-0886
Contractor's Name: Artesian Environmental
Contractor's Mailing Address: 229 Tewksbury, PT Richmond 94801
Ph. (510) 307-9743 City Bus. Lic.
Architect and/or Engineer: N/A
Architect and/or Engineer's Address: N/A
Ph. Lic. No.

LICENSED CONTRACTORS DECLARATION

I hereby affirm that I am licensed under provisions of Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code and my license is in full force and effect.

License Class HAZ. ASB. A, B, C57 Lic. Number 624461
Exp. Date 6/31/99 Licensee Artesian Environmental

OWNER-BUILDER DECLARATION

I hereby affirm that I am exempt from the Contractor's License Law for the following reason (Sec. 7031.5, Business and Professions Code: Any city or county which requires a permit to construct, alter, improve, demolish, or repair any structure, prior to its issuance, also requires the applicant for such permit to file a signed statement that he is licensed pursuant to the provisions of the Contractor's License Law Chapter 9 (commencing with Sec. 7000) of Division 3 of the Business and Professions Code, or that he is exempt therefrom and the basis for the alleged exemption. Any violation of Section 7031.5 by any applicant for a permit subjects the applicant to a civil penalty of not more than five hundred dollars ($500).)

☐ I, as owner of the property, or my employees with wages as their sole compensation, will do the work, and the structure if not intended or offered for sale (Sec. 7044, Business and Professions Code: The Contractor's License Law does not apply to an owner of property who builds or improves thereon, and who does such work himself or through his own employees, provided that such improvements are not intended or offered for sale. If, however, the building or improvement is sold within one year of completion, the owner-builder will have the burden of proving that he did not build or improve for the purpose of sale.).

☐ *I, as owner of the property, am exclusively contracting with licensed contractors to construct* the project (Sec. 7044, Business and Professions Code: The Contractor's License Law does not apply to an owner of property who builds or improves thereon, and who contracts for such projects with a contractor(s) licensed pursuant to the Contractor's License Law.). All such Construction must obtain City Bus. Lic.
☐ I am exempt under Sec. _____, B. & P.C. for this reason _____

Signature of owner Date

WORKERS' COMPENSATION DECLARATION

I hereby affirm that I have a certificate of consent to self-insure, or a certificate of Workers' Compensation Insurance, or a certified copy thereof (Sec 3800, Labor Code).

Policy # EA-092-000197-98 Company Name Artesian Environmental
☐ Certified copy is hereby furnished.
☐ *Certified copy is filed with the city building inspection department*
Applicant Paul Jones Date 10/4/98

CERTIFICATE OF EXEMPTION FROM WORKERS' COMPENSATION INSURANCE

(This section need not be completed if the permit is for one hundred dollars ($100) or less.) I certify that in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to the Workers' Compensation Laws of California

Signature Date

NOTICE TO APPLICANT: If, after making this Certificate of Exemption, you should become subject to the Workers' Compensation provisions of the Labor Code, you must forthwith comply with such provisions or this permit shall be deemed revoked

CONSTRUCTION LENDING AGENCY

I hereby affirm that there is a construction lending agency for the performance of the work for which this permit is issued. (Sec. 3097, Civil Code).
LENDERS *NAME*

DESCRIPTION OF WORK

Underground Storage Tank Removal

PLUMBING PERMIT

CONTRACTOR
STATE LICENSE NO. AND CLASSIFICATION FEE $

W.C.	LAV.	BATH T.	SHOWER	SINK	DISHWASHER	LAUNDRY T.	SPA

CLOTHES WASHER	FLOOR SINK	URINAL	DRINKING FOUNTAIN	GAS SYSTEMS OUTLETS	WATER HTR.

WASTE INTERCEPTER	SEWER C.O.	SEWER	WTR. PIPING SYSTEMS	OTHER	PER 100 SQ. FT.

ELECTRICAL PERMIT

CONTRACTOR
STATE LICENSE NO. AND CLASSIFICATION FEE $

SERVICE AMP.	CIRCUITS	OUTLETS	FIXTURES	SWITCHES	WATER HTR.	RANGE	DRYER

DISPOSAL	DISHWASHER	SPA	FANS/MOTORS	PER 100 SQ. FT.

HEATING / COOLING PERMIT

CONTRACTOR
STATE LICENSE NO. AND CLASSIFICATION FEE $

FURN.	DUCT/FLUE	HOOD	COMP.	AIR COND.	OTHER	PER 100 SQ. FT.

DEPARTMENT USE ONLY

Plans received by _____ Date 10/4/98
Value of Project $ _____

Construction Permit Fee	$
Plumbing Permit Fee	$
Electrical Permit Fee	$
Heating/Cooling Permit Fee	$
Plan Check Fee	$
Sewer Connection Fee	$
S.M.I.P.	$
Capital Improvement Fee	$

APPENDIX C: MANIFESTS

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

See Instructions on back of page 6.

Department of Toxic Substances Control
Sacramento, California

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. CA100010023589 Manifest Document No. 97565
2. Page 1 of 1
Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
ALBANY High School
603 Key Route Blvd
ALBANY CA 94706

4. Generator's Phone ( )

5. Transporter 1 Company Name
CLEARWATER ENVIRONMENTAL

6. US EPA ID Number
CAR000007013

7. Transporter 2 Company Name

8. US EPA ID Number

9. Designated Facility Name and Site Address
ALVISO INDEPENDENT OIL
6002 ARCHER STREET
ALVISO, CA 95002

10. US EPA ID Number
CAL000161743

11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt/Vol
a. ( ) Non-RCRA Hazardous Waste Liquid	001	TT	1/0150	G
b.				
c.				
d.				

15. Special Handling Instructions and Additional Information
WEAR PPE
Emergency Contact: (510) 797-8511 Attn: Kirk Hayward
ERG # 171

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

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

GENERATOR

Printed/Typed Name	Signature	Month	Day	Year
Paul E. Jones, Agent for Generator		10	13	98

17. Transporter 1 Acknowledgement of Receipt of Materials

TRANSPORTER

Printed/Typed Name	Signature	Month	Day	Year
Terry Gaines		10	13	98

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

FACILITY

19. Discrepancy Indication Space

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

Printed/Typed Name	Signature	Month	Day	Year

IN CASE OF EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA, CALL 1-800-852-7550

DO NOT WRITE BELOW THIS LINE.

DTSC 8022A (4/97)
EPA 8700—22

Yellow. GENERATOR RETAINS

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

See Instructions on back of page 6.

Department of Toxic Substances Control
Sacramento, California

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. CAL000023581 Manifest Document No. 97280 | 2. Page 1 of 1 | Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address: Albany High School, 603 Key Route Blvd, Albany, CA 94706

4. Generator's Phone ( )

5. Transporter 1 Company Name: CLEARWATER ENVIRONMENTAL | 6. US EPA ID Number: CAR000007013

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

9. Designated Facility Name and Site Address: ALVISO INDEPENDENT OIL, 5002 ARCHER STREET, ALVISO, CA 95002 | 10. US EPA ID Number: CAL000161743

11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt/Vol
Oily Water, Non-RCRA Hazardous Waste Liquid	001	TT	1900	G
b.				
c.				
d.				

Additional Descriptions for Materials Listed Above | K. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
WEAR PPE
Emergency Contact: (510) 797-8511 Attn: Kirk Hayward
ERG # 171

CLEARWATER ENVIRONMENTAL dba ALVISO OIL HAS ALL THE NECESSARY PERMITS AND LICENSES TO STORE AND TRANSFER THE WASTE CHARACTERIZED ON THIS MANIFEST.

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

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

GENERATOR

Printed/Typed Name	Signature	Month	Day	Year
STEVE RICHARDS		01	02	98

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
STEVEN R. STONE	Steven R. Stone	01	02	98

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

FACILITY

19. Discrepancy Indication Space

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

Printed/Typed Name	Signature	Month	Day	Year
Vicky Stone	V. Stone	01	02	98

DO NOT WRITE BELOW THIS LINE.

Yellow: TSDF SENDS THIS COPY TO GENERATOR WITHIN 30 DAYS. (Generators who submit hazardous waste for transport out-of-state, produce completed copy of this copy and send to DTSC within 30 days.)

DTSC 8022A (4/97)
EPA 8700—22

IN CASE OF EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA, CALL 1-800-852-7550

97280

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

See Instructions on back of page 6.974300

Department of Toxic Substances Control
Sacramento, California

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. CAL000023358 — Manifest Document No. 01433 — 2. Page 1 of 1 — Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address: Albany High School, 603 Key Route Blvd. — Albany, Calif. 94706

4. Generator's Phone (510) 715-0886

5. Transporter 1 Company Name: DEXANNA — 6. US EPA ID Number: CAD982438566

7. Transporter 2 Company Name — 8. US EPA ID Number

9. Designated Facility Name and Site Address: ERICKSON INC, 255 PARR BLVD, RICHMOND, CA 94801 — 10. US EPA ID Number: CAD009466392

A. State Manifest Document Number: 96734231
B. State Generator's ID
C. State Transporter's ID
D. Transporter's Phone: (925) 667-1292
E. State Transporter's ID
F. Transporter's Phone
G. State Facility's ID: CAD009466392
H. Facility's Phone: 510-235-1393

11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. ~~WASTE EMPTY STORAGE TANK~~ Non-RCRA hazardous waste solid	001	TP	020000	P	State EPA/Other NONE
b.					State EPA/Other
c.					State EPA/Other
d.					State EPA/Other

J. Additional Descriptions for Materials Listed Above: QTY 1 EMPTY STORAGE TANK(S) 12,000 GAL. TANK(S) HAVE BEEN INERTED WITH 5 LBS DRY ICE PER 1000 GALLONS CAPACITY.

K. Handling Codes for Wastes Listed Above: a. 01 b. c. d.

Wear appropriate protective clothing when handling. SITE LOCATION: 603 Key Route Blvd Albany, Calif.
24 Hour Emergency Telephone Number: (510) 715-0886
24 Hour Emergency Contact: Dale Hudson
ERG 171

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

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

GENERATOR — Printed/Typed Name: Paul E. Jones, Agent for Generator — Signature — Month 10 Day 14 Year 98

TRANSPORTER
17. Transporter 1 Acknowledgement of Receipt of Materials — Printed/Typed Name: James R. Cox — Signature — Month 10 Day 14 Year 98
18. Transporter 2 Acknowledgement of Receipt of Materials — Printed/Typed Name — Signature — Month Day Year

FACILITY
19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19 — Printed/Typed Name: DAVID SATO — Signature: DAVE SATO — Month 10 Day 14 Year 98

DO NOT WRITE BELOW THIS LINE.

IN CASE OF EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA, CALL 1-800-852-7550

96734231

DTSC 8022A (4/97)
EPA 8700—22

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

DAY OR NIGHT
TELEPHONE
(510) 235-1393

CERTIFICATE

CERTIFIED SERVICES COMPANY

255 Parr Boulevard • Richmond, California 94801

NO. 30253

CUSTOMER

JOB NO. 074300
ARTESIAN ENV.

FOR: ERICKSON, INC. TANK NO. 24212

LOCATION: RICHMOND, CA DATE: 11/5/98 TIME: 3:37:55 PM

TEST METHOD VISUAL GASTECH/1314 SMPN LAST PRODUCT FO

This is to certify that I have personally determined that this tank is in accordance with the American Petroleum Institute and have found the condition to be in accordance with its assigned designation. This certificate is based on conditions existing at the time the inspection herein set forth was completed and is issued subject to compliance with all qualifications and instructions.

TANK SIZE 2,000 GALLON TANK CONDITION SAFE FOR FIRE

REMARKS: OXYGEN 20.9% LOWER EXPLOSIVE LIMIT LESS THAN 0.1% ERICKSON, INC. HERBY CERTIFIES THAT THE ABOVE NUMBERED TANK HAS BEEN CUT OPEN, PROCESSED, AND THEREFORE DESTROYED AT OUR PERMITTED HAZARDOUS WASTE FACILITY.

ERICKSON, INC. HAS THE APROPRIATE PERMITS FOR, AND HAS ACCEPTED THE TANK SHIPPED TO US FOR PROCESSING.

In the event of any physical or atmospheric changes affecting the gas-free conditions of the above tanks, or if in any doubt, immediately stop all hot work and contact the undersigned. This permit is valid for 24 hours if no physical or atmospheric changes occur.

STANDARD SAFETY DESIGNATION

SAFE FOR MEN: Means that in the compartment or space so designated (a) The oxygen content of the atmosphere is at least 19.5 percent by volume; and that (b) Toxic materials in the atmosphere are within permissable concentrations; and (c) In the judgment of the Inspector, the residues are not capable of producing toxic materials under existing atmospheric conditions while maintained as directed on the Inspector's certificate.

SAFE FOR FIRE: Means that in the compartment so designated (a) The concentration of flammable materials in the atmosphere is below 10 percent of the lower explosive limit; and that (b) In the judgment of the Inspector, the residues are not capable of producing a higher concentration that permitted under existing atmospheric conditions in the presence of fire and while maintained as directed on the Inspector's certificate, and further, (c) All adjacent spaces have either been cleaned sufficiently to prevent the spread of fire, are satisfactorily inerted, or in the case of fuel tanks, have been treated as deemed necessary by the Inspector.

The undersigned representative acknowledges receipt of this certificate and understands the conditions and limitations under which it was issued.

Patrice Callon — REPRESENTATIVE

TITLE

Dave Soto — INSPECTOR

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

See instructions on back of page 6.

Department of Toxic Substances Control
Sacramento, California

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: CAL000025584 Manifest Document No.: 7640

2. Page 1 of

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

3. Generator's Name and Mailing Address: [illegible]

4. Generator's Phone ( ) [illegible] 5880

5. Transporter 1 Company Name: [illegible]

6. US EPA ID Number: CAL000027706

7. Transporter 2 Company Name

8. US EPA ID Number

9. Designated Facility Name and Site Address: [illegible] 6425 HAY ROAD VACAVILLE, CA [illegible]

10. US EPA ID Number: CAD 982042475

11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt/Vol
a. R.Q. ASBESTOS, 9, NA 2212 PG III	013	BA	00001	Y
b.				
c.				
d.				

J. Additional Descriptions for Materials Listed Above: [illegible]

K. Handling Codes for Wastes Listed Above: a. 03

15. Special Handling Instructions and Additional Information: 24 HRS. EMERGENCY 1-800-[illegible]
[illegible], 937 ELLIS ST., S.F., CA 94107 EPA REGION IX
ASBESTOS REMOVAL REQUIREMENT: 40 CFR 61 (bagged, sealed, labeled)

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

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

Printed/Typed Name: Paul E. Jones, Agent for Generator — Signature: [signature] — Month/Day/Year: 10 18 98

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: JACK [illegible] — Signature: [signature] — Month/Day/Year: 10 28 98

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name — Signature — Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: Terry Sousa — Signature: [signature] — Month/Day/Year: 10 28 98

DO NOT WRITE BELOW THIS LINE.

GENERATOR / TRANSPORTER / FACILITY

IN CASE OF EMERGENCY OR SPILL CALL [redacted] 1-80[redacted] WITHIN [redacted] FOR [redacted]

DTSC 8022A (4/97)
EPA 8700—22

Green: TRANSPORTER RETAINS

APPENDIX D: LABORATORY ANALYTICAL REPORTS AND CHAIN OF CUSTODY DOCUMENTATION

McCAMPBELL ANALYTICAL INC.
110 Second Avenue South, #D7, Pacheco, CA 94553-5560
Telephone : 925-798-1620 Fax : 925-798-1622
http://www.mccampbell.com E-mail: main@mccampbell.com

Artesian Environmental 229 Tewksbury Avenue Point Richmond, CA 94801	Client Project ID: #378-002-01; Albany USD	Date Sampled: 10/16/98
		Date Received: 10/19/98
	Client Contact: Paul Jones	Date Extracted: 10/19/98
	Client P.O:	Date Analyzed: 10/19/98

10/26/98

Dear Paul:

Enclosed are:

1). the results of 1 samples from your **#378-002-01; Albany USD** project,

2). a QC report for the above samples

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

4). a bill for analytical services.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits. If you have any questions please contact me. McCampbell Analytical Laboratories strives for excellence in quality, service and cost. Thank you for your business and I look forward to working with you again.

Yours truly,

Edward Hamilton, Lab Director

McCAMPBELL ANALYTICAL INC.
110 Second Avenue South, #D7, Pacheco, CA 94553-5560
Telephone : 925-798-1620 Fax : 925-798-1622
http://www.mccampbell.com E-mail: main@mccampbell.com

Artesian Environmental 229 Tewksbury Avenue Point Richmond, CA 94801	Client Project ID: #378-002-01; Albany USD	Date Sampled: 10/16/98
		Date Received: 10/19/98
	Client Contact: Paul Jones	Date Extracted: 10/21/98
	Client P.O:	Date Analyzed: 10/22-10/23/98

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline*, with Methyl tert-Butyl Ether* & BTEX*

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

Lab ID	Client ID	Matrix	TPH(g)[+]	MTBE	Benzene	Toluene	Ethylben-zene	Xylenes	% Recovery Surrogate
97509	W Trench 65	S	---	---	ND	0.067	ND	0.79	94
Reporting Limit unless otherwise stated; ND means not detected above the reporting limit		W	50 ug/L	5.0	0.5	0.5	0.5	0.5	
		S	1.0 mg/kg	0.05	0.005	0.005	0.005	0.005	

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

" cluttered chromatogram; sample peak coelutes with surrogate peak

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

DHS Certification No. 1644

Edward Hamilton, Lab Director

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Artesian Environmental 229 Tewksbury Avenue Point Richmond, CA 94801	Client Project ID: #378-002-01; Albany USD	Date Sampled: 10/16/98
		Date Received: 10/19/98
	Client Contact: Paul Jones	Date Extracted: 10/21/98
	Client P.O:	Date Analyzed: 10/24-10/25/98

Diesel Range (C10-C23) Extractable Hydrocarbons as Diesel *

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

Lab ID	Client ID	Matrix	TPH(d)+	% Recovery Surrogate
97509	W Trench 65	S	2500,b,g	100
Reporting Limit unless otherwise stated; ND means not detected above the reporting limit		W	50 ug/L	
		S	1.0 mg/kg	

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

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

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

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Artesian Environmental 229 Tewksbury Avenue Point Richmond, CA 94801	Client Project ID: #378-002-01; Albany USD	Date Sampled: 10/16/98
		Date Received: 10/19/98
	Client Contact: Paul Jones	Date Extracted: 10/23/98
	Client P.O:	Date Analyzed: 10/23/98

Petroleum Oil & Grease (with Silica Gel Clean-up) *

EPA methods 413.1, 9070 or 9071; Standard Methods 5520 D/E&F or 503 D&E for solids and 5520 B&F or 503 A&E for liquids

Lab ID	Client ID	Matrix	Oil & Grease*
97509	W Trench 65	S	14,000
Reporting Limit unless otherwise stated; ND means not detected above the reporting limit		W	5 mg/L
		S	50 mg/kg

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

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

DHS Certification No. 1644

/4/ Edward Hamilton, Lab Director

McCAMPBELL ANALYTICAL INC.
110 2nd Avenue South, #D7, Pacheco, CA 94553
Tele: 925-798-1620 Fax: 925-798-1622

QC REPORT FOR HYDROCARBON ANALYSES

Date: 10/22/98 Matrix: SOIL

Analyte	Concentration (mg/kg) Sample (#90401)	MS	MSD	Amount Spiked	% Recovery MS	MSD	RPD
TPH (gas)	0.000	2.103	2.180	2.03	104	107	3.6
Benzene	0.000	0.208	0.228	0.2	104	114	9.2
Toluene	0.000	0.214	0.236	0.2	107	118	9.8
Ethylbenzene	0.000	0.206	0.228	0.2	103	114	10.1
Xylenes	0.000	0.612	0.662	0.6	102	110	7.8
TPH(diesel)	0	318	325	300	106	108	2.1
TRPH (oil and grease)	0.0	23.5	24.6	20.8	113	118	4.6

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

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

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

QC REPORT FOR HYDROCARBON ANALYSES

Date: 10/23/98-10/24/98 Matrix: SOIL

Analyte	Concentration (mg/kg) Sample (#90401)	MS	MSD	Amount Spiked	% Recovery MS	MSD	RPD
TPH (gas)	0.000	2.103	2.180	2.03	104	107	3.6
Benzene	0.000	0.208	0.228	0.2	104	114	9.2
Toluene	0.000	0.214	0.236	0.2	107	118	9.8
Ethylbenzene	0.000	0.206	0.228	0.2	103	114	10.1
Xylenes	0.000	0.612	0.662	0.6	102	110	7.8
TPH(diesel)	0	316	314	300	105	105	0.7
TRPH (oil and grease)	0.0	22.2	22.1	20.8	107	106	0.5

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

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

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McCAMBELL ANALYTICAL INC.

110 2nd AVENUE SOUTH, #D7
PACHECO, CA 94553
Telephone: (510) 798-1620 Fax: (510) 798-1622

CHAIN OF CUSTODY RECORD

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

Report To: Paul Jones Bill To:
Company: Artesian Environmental
229 Tewksbury Avenue
Point Richmond, CA 94801
Tele: (510) 232-2827 Fax: (510) 232-2823
Project #: 328-002-01 Project Name: Albany USD
Project Location: 306 Key Route Blvd., Albany
Sampler Signature:

SAMPLE ID	LOCATION	SAMPLING Date	SAMPLING Time	# Containers	Type Comtainers	MATRIX Water	MATRIX Soil	MATRIX Air	MATRIX Sludge	MATRIX Other	METHOD PRESERVED Ice	METHOD PRESERVED HCl	METHOD PRESERVED HNO_3	METHOD PRESERVED Other	BTEX & TPH as Gas (602/8020 + 8015)/ MTBE	TPH as Diesel (8015)	Total Petroleum Oil & Grease (5520 E&F/B&F)	Total Petroleum Hydrocarbons (418.1)	EPA 601 / 8010	BTEX ONLY (EPA 602 / 8020)	EPA 608 / 8080	EPA 608 / 8080 PCB's ONLY	EPA 624 / 8240 / 8260	EPA 625 / 8270	PAH's / PNA's by EPA 625 / 8270 / 8310	CAM-17 Metals	LUFT 5 Metals	Lead (7240/7421/239.2/6010)	RCI	Other	Comments
W Trench 65		10/16/98	1520	1			X				X					X	X			X											87609

ICE ✓
GOOD CONDITION ✓
HEAD SPACE ABSENT ✓
PRESERVATION APPROPRIATE ✓
CONTAINERS ✓

	VOAS	O&G	METALS	OTHER

	Date:	Time:	
Relinquished By:	10/19/98	8:54	Received By:
Relinquished By:	10/19	12:22	Received By:
Relinquished By:	Date:	Time:	Received By:

Remarks: Paul Jones will call with Analyses + TAT

OFF HOLD 10/21/98

McCAMPBELL ANALYTICAL INC.
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Artesian Environmental 229 Tewksbury Avenue Point Richmond, CA 94801	Client Project ID: #378-002-01; Albany USD	Date Sampled: 10/14/98
		Date Received: 10/15/98
	Client Contact: Paul Jones	Date Extracted: 10/15/98
	Client P.O:	Date Analyzed: 10/15/98

10/22/98

Dear Paul:

Enclosed are:

1). the results of **2** samples from your **#378-002-01; Albany USD** project,

2). a QC report for the above samples

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

4). a bill for analytical services.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits. If you have any questions please contact me. McCampbell Analytical Laboratories strives for excellence in quality, service and cost. Thank you for your business and I look forward to working with you again.

Yours truly,

Edward Hamilton, Lab Director

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Artesian Environmental 229 Tewksbury Avenue Point Richmond, CA 94801	Client Project ID: #378-002-01; Albany USD	Date Sampled: 10/14/98
		Date Received: 10/15/98
	Client Contact: Paul Jones	Date Extracted: 10/15-10/22/98
	Client P.O:	Date Analyzed: 10/15-10/22/98

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline*, with Methyl tert-Butyl Ether* & BTEX*

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

Lab ID	Client ID	Matrix	TPH(g)+	MTBE	Benzene	Toluene	Ethylben-zene	Xylenes	% Recovery Surrogate
97052	CS-North W	S	---	---	ND	0.036	ND	0.38	96
97055	CS-East	S	11,g,j	ND	ND	ND	ND	0 057	103
97056	CS-West	S	74,g,j	ND	ND	0.031	ND	0.33	98
Reporting Limit unless otherwise stated; ND means not detected above the reporting limit		W	50 ug/L	5.0	0.5	0.5	0.5	0.5	
		S	1.0 mg/kg	0.05	0.005	0.005	0.005	0.005	

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

cluttered chromatogram; sample peak coelutes with surrogate peak

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

DHS Certification No. 1644

Edward Hamilton, Lab Director

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		Date Received: 10/15/98
	Client Contact: Paul Jones	Date Extracted: 10/15-10/21/98
	Client P.O:	Date Analyzed: 10/15-10/25/98

Diesel Range (C10-C23) Extractable Hydrocarbons as Diesel *

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

Lab ID	Client ID	Matrix	TPH(d)+	% Recovery Surrogate
97052	CS-North	S	1300,b,g	100
97055	CS-East	S	100,b	94
97056	CS-West	S	1100,b,g	104
Reporting Limit unless otherwise stated; ND means not detected above the reporting limit		W	50 ug/L	
		S	1.0 mg/kg	

* water and vapor samples are reported in ug/L, wipe samples in ug/wipe, soil and sludge samples in mg/kg, and all TCLP / STLC / SPLP extracts in ug/L.

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

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

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Artesian Environmental 229 Tewksbury Avenue Point Richmond, CA 94801	Client Project ID: #378-002-01; Albany USD	Date Sampled: 10/14/98
		Date Received: 10/15/98
	Client Contact: Paul Jones	Date Extracted: 10/15-10/23/98
	Client P.O:	Date Analyzed: 10/15-10/23/98

Petroleum Oil & Grease (with Silica Gel Clean-up) *

EPA methods 413.1, 9070 or 9071; Standard Methods 5520 D/E&F or 503 D&E for solids and 5520 B&F or 503 A&E for liquids

Lab ID	Client ID	Matrix	Oil & Grease*
97052	CS-North	S	760
97055	CS-East	S	460
97056	CS-West	S	2400
Reporting Limit unless otherwise stated; ND means not detected above the reporting limit		W	5 mg/L
		S	50 mg/kg

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

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

DHS Certification No. 1644

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Artesian Environmental 229 Tewksbury Avenue Point Richmond, CA 94801	Client Project ID: #378-002-01; Albany USD	Date Sampled: 10/14/98
		Date Received: 10/15/98
	Client Contact: Paul Jones	Date Extracted: 10/16/98
	Client P.O:	Date Analyzed: 10/19/98

Semi-Volatile Organics By GC/MS

EPA method 625 and 3510 or 8270 and 3550

Lab ID	97055
Client ID	CS-East
Matrix	S

Compound	Concentration*	Reporting Limit W	Reporting Limit S	Compound	Concentration*	Reporting Limit W	Reporting Limit S
Acenaphthene	ND<0.5	10	0.33	Di-n-octyl Phthalate	ND<0.5	10	0.33
Acenaphthylene	ND<0.5	10	0.33	1,2-Diphenylhydrazine	ND<0.5	10	0.33
Anthracene	ND<0.5	10	0.33	Fluoranthene	ND<0.5	10	0.33
Benzidine	ND<2.4	50	1.6	Fluorene	ND<0.5	10	0.33
Benzoic Acid	ND<2.4	50	1.6	Hexachlorobenzene	ND<0.5	10	0.33
Benzo(a)anthracene	ND<0.5	10	0.33	Hexachlorobutadiene	ND<0.5	10	0.33
Benzo(b)fluoranthene	ND<0.5	10	0.33	Hexachlorocyclopentadiene	ND<2.4	50	1.6
Benzo(k)fluoranthene	ND<0.5	10	0 33	Hexachloroethane	ND<0.5	10	0.33
Benzo(g,h,i)perylene	ND<0.5	10	0.33	Indeno(1,2,3-cd)pyrene	ND<0.5	10	0.33
Benzo(a)pyrene	ND<0.5	10	0.33	Isophorone	ND<0.5	10	0.33
Benzyl Alcohol	ND<1.0	20	0.66	2-Methylnaphthalene	ND<0.5	10	0.33
Bis(2-chloroethoxy)methane	ND<0.5	10	0.33	2-Methylphenol (o-Cresol)	ND<0.5	10	0.33
Bis(2-chloroethyl) Ether	ND<0.5	10	0.33	4-Methylphenol (p-Cresol)	ND<0.5	10	0.33
Bis(2-chloroisopropyl)Ether	ND<0.5	10	0.33	Naphthalene	ND<0.5	10	0.33
Bis(2-ethylhexyl) Phthalate	ND<0.8	10	0.33	2-Nitroaniline	ND<2.4	50	1.6
4-Bromophenyl Phenyl Ether	ND<0.5	10	0.33	3-Nitroaniline	ND<2.4	50	1.6
Butylbenzyl Phthalate	ND<0.5	10	0.33	4-Nitroaniline	ND<2.4	50	1.6
4-Chloroanaline	ND<1.0	20	0.66	2-Nitrophenol	ND<2.4	50	1.6
4-Chloro-3-methylpheno'	ND<0.5	10	0.33	4-Nitrophenol	ND<2.4	50	1.6
2-Chloronaphthalene	ND<0.5	10	0.33	Nitrobenzene	ND<0.5	10	0.33
2-Chlorophenol	ND<0.5	10	0.33	N-Nitrosodimethylamine	ND<0.5	10	0.33
4-Chlorophenyl Phenyl Ether	ND<0.5	10	0.33	N-Nitrosodiphenylamine	ND<0.5	10	0.33
Chrysene	ND<0.5	10	0.33	N-Nitrosodi-n-propylamine	ND<0.5	10	0.33
Dibenzo(a,h)anthracene	ND<0.5	10	0.33	Pentachlorophenol	ND<0.5	10	0.33
Dibenzofuran	ND<0.5	10	0.33	Phenanthrene	ND<0.5	10	0.33
Di-n-butyl Phthalate	ND<0.5	10	0 33	Phenol	ND<0.5	10	0.33
1,2-Dichlorobenzene	ND<0.5	10	0.33	Pyrene	ND<0.5	10	0.33
1,3-Dichlorobenzene	ND<0.5	10	0.33	1,2,4-Trichlorobenzene	ND<0.5	10	0.33
1,4-Dichlorobenzene	ND<0.5	10	0.33	2,4,5-Trichlorophenol	ND<0.5	10	0.33
3,3-Dichlorobenzidine	ND<1.0	20	0.66	2,4,6-Trichlorophenol	ND<0.5	10	0.33
2,4-Dichlorophenol	ND<0.5	10	0.33	Comments: j			
Diethyl Phthalate	ND<0.5	10	0.33	**Surrogate Recoveries (%)**			
2,4-Dimethylphenol	ND<0.5	10	0.33	2-Fluorobiphenyl	90		
Dimethyl Phthalate	ND<0.5	10	0.33	2-Fluorophenol	77		
4,6-Dinitro-2-methylphenol	ND<2.4	50	1.6	Nitrobenzene-d5	79		
2,4-Dinitrophenol	ND<2.4	50	1.6	Phenol-d5	78		
2,4-Dinitrotoluene	ND<0.5	10	0.33	p-Terphenyl-d14	122		
2,6-Dinitrotoluene	ND<0.5	10	0.33	2,4,6-Tribromophenol	75		

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

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

h) lighter than water immiscible sheen is present; i)liquid sample that contains greater than ~5 vol % sediment; j) sample diluted due to high organic content

DHS Certification No. 1644

Edward Hamilton, Lab Director

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

QC REPORT FOR HYDROCARBON ANALYSES

Date: 10/14/98-10/15/98 Matrix: SOIL

Analyte	Concentration (mg/kg) Sample (#90401)	MS	MSD	Amount Spiked	% Recovery MS	MSD	RPD
TPH (gas)	0.000	2.243	2.281	2.03	110	112	1.7
Benzene	0.000	0.198	0.208	0.2	99	104	4.9
Toluene	0.000	0.206	0.214	0.2	103	107	3.8
Ethylbenzene	0.000	0.206	0.212	0.2	103	106	2.9
Xylenes	0.000	0.614	0.630	0.6	102	105	2.6
TPH(diesel)	0	340	347	300	113	116	2.0
TRPH (oil and grease)	0.0	23.6	21.9	20.8	113	105	7.5

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

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

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

QC REPORT FOR SVOCs (EPA 8270/625/525)

Date: 10/19/98-10/20/98 Matrix: SOIL

Analyte	Concentration (ug/Kg) Sample (#90401)	MS	MSD	Amount Spiked	% Recovery MS	MSD	RPD
Phenol	0	53	81	100	53	81	83.6
2-Chlorophenol	0	52	64	100	52	64	20.7
1, 4-Dichlorobenzene	0	62	68	100	62	68	9.2
N-nitroso-di-n-propyl	0	62	93	100	62	93	40.0
1, 2, 4-Trichlorobenz	0	58	62	100	58	62	6.7
4-Chloro-3-methylphen	0	69	90	100	69	90	26.4
4-Nitrophenol	0	59	64	100	59	64	8.1
Acenaphthene	0	64	72	100	64	72	11.8
2, 4- Dinitrotoluene	0	61	70	100	61	70	13.7
Pentachlorophenol	0	66	63	100	66	63	4.7
Pyrene	0	64	64	100	64	64	0.0

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

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

12692 xA32

McCAMBELL ANALYTICAL INC.

110 2nd AVENUE SOUTH, #D7
PACHECO, CA 94553
Telephone: (510) 798-1620 Fax: (510) 798-1622

CHAIN OF CUSTODY RECORD

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

Report To: Paul Jones Bill To:
Company: Artesian Environmental
229 Tewksbury Avenue
Point Richmond, CA 94801
Tele: (510) 232-2827 Fax: (510) 232-2823
Project #: 378-002-01 Project Name: Albany USD
Project Location: 603 Key Route Blvd., Albany
Sampler Signature:

SAMPLE ID	LOCATION	SAMPLING Date	SAMPLING Time	# Containers	Type Containers	MATRIX Water	MATRIX Soil	MATRIX Air	MATRIX Sludge	MATRIX Other	METHOD PRESERVED Ice	METHOD PRESERVED HCl	METHOD PRESERVED HNO_3	METHOD PRESERVED Other	BTEX & TPH as Gas (602/8020 + 8015) MTBE	TPH as Diesel (8015)	Total Petroleum Oil & Grease (5520 E&F/B&F)	Total Petroleum Hydrocarbons (418.1)	EPA 601 / 8010	BTEX ONLY (EPA 602 / 8020)	EPA 608 / 8080	EPA 608 / 8080 PCB's ONLY	EPA 624 / 8240 / 8260	EPA 625 / 8270	PAH's / PNA's by EPA 625 (8270) 8310	CAM-17 Metals	LUFT 5 Metals	Lead (7240/7421/239.2/6010)	RCI	Other	Comments
CS-North Wall		10/14/98	1610	1			X				X					*	*			*											Hold
CS-West Wall		10/14/98	1635	1			X				X																				Hold
CS-South Wall		10/14/98	1645	1			X				X																				Hold
CS-East		10/14/98	1520	1			X				X				X	X	X								X						48hr 5day
CS-West		10/14/98	1930	1			X				X				X	X	X														

97052
97053
97054
97055
97056

ICE/T ✓
GOOD CONDITION ✓
HEAD SPACE ABSENT ✓

VOAS | O&G | METALS | OTHER
PRESERVATION APPROPRIATE ✓
CONTAINERS ✓

Relinquished By:	Date:	Time:	Received By:
	10/15/98	10:35am	Angel Butts #613
Angel Butts	10-15-98	11:25	

Remarks: Please hold Wall Samples for possible future Analysis

* 05f Hold 10/21/98 5day

McCAMPBELL ANALYTICAL INC.
110 Second Avenue South, #D7, Pacheco, CA 94553-5560
Telephone . 925-798-1620 Fax : 925-798-1622
http://www.mccampbell.com E-mail: main@mccampbell.com

Artesian Environmental 229 Tewksbury Avenue Point Richmond, CA 94801	Client Project ID: #378-002-01; Albany USD	Date Sampled: 10/19/98
		Date Received: 10/20/98
	Client Contact: Paul Jones	Date Extracted: 10/20/98
	Client P.O:	Date Analyzed: 10/20/98

10/27/98

Dear Paul:

Enclosed are:

1). the results of **1** samples from your **#378-002-01; Albany USD** project,

2). a QC report for the above samples

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

4). a bill for analytical services.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits. If you have any questions please contact me. McCampbell Analytical Laboratories strives for excellence in quality, service and cost. Thank you for your business and I look forward to working with you again.

Yours truly,

Edward Hamilton, Lab Director

McCAMPBELL ANALYTICAL INC.
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Telephone : 925-798-1620 Fax : 925-798-1622
http://www.mccampbell.com E-mail: main@mccampbell.com

Artesian Environmental 229 Tewksbury Avenue Point Richmond, CA 94801	Client Project ID: #378-002-01; Albany USD	Date Sampled: 10/19/98
		Date Received: 10/20/98
	Client Contact: Paul Jones	Date Extracted: 10/20-10/21/98
	Client P.O:	Date Analyzed: 10/22-10/23/98

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline*, with Methyl tert-Butyl Ether* & BTEX*

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

Lab ID	Client ID	Matrix	TPH(g)+	MTBE	Benzene	Toluene	Ethylben-zene	Xylenes	% Recovery Surrogate
97351	GW-1	W	ND	ND	ND	ND	ND	ND	99
97352	S Trench 45-8	S	---	---	ND	ND	ND	0.013	96
97353	S Trench 45-13	S	---	---	ND	0.021	ND	0.23	96
97354	W Trench 65-9	S	---	---	ND	ND	0 008	0.028	96
Reporting Limit unless otherwise stated; ND means not detected above the reporting limit		W	50 ug/L	5.0	0 5	0.5	0.5	0.5	
		S	1.0 mg/kg	0.05	0.005	0.005	0.005	0.005	

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

* cluttered chromatogram; sample peak coelutes with surrogate peak

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

DHS Certification No. 1644

Edward Hamilton, Lab Director

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Artesian Environmental 229 Tewksbury Avenue Point Richmond, CA 94801	Client Project ID: #378-002-01; Albany USD	Date Sampled: 10/19/98
		Date Received: 10/20/98
	Client Contact: Paul Jones	Date Extracted: 10/21/98
	Client P.O:	Date Analyzed: 10/24-10/25/98

Diesel Range (C10-C23) Extractable Hydrocarbons as Diesel *

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

Lab ID	Client ID	Matrix	TPH(d)+	% Recovery Surrogate
97351	GW-1	W	920,c	104
97352	S Trench 45-8	S	350,b,g	100
97353	S Trench 45-13	S	1400,b,g	101
97354	W Trench 65-9	S	280,b,g	100
Reporting Limit unless otherwise stated; ND means not detected above the reporting limit		W	50 ug/L	
		S	1.0 mg/kg	

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

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

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

DHS Certification No. 1644

Edward Hamilton, Lab Director

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Artesian Environmental 229 Tewksbury Avenue Point Richmond, CA 94801	Client Project ID: #378-002-01; Albany USD	Date Sampled: 10/19/98
		Date Received: 10/20/98
	Client Contact: Paul Jones	Date Extracted: 10/20/98
	Client P.O:	Date Analyzed: 10/20-10/23/98

Petroleum Oil & Grease (with Silica Gel Clean-up) *

EPA methods 413.1, 9070 or 9071; Standard Methods 5520 D/E&F or 503 D&E for solids and 5520 B&F or 503 A&E for liquids

Lab ID	Client ID	Matrix	Oil & Grease*
97351	GW-1	W	ND
97352	S Trench 45-8	S	460
97353	S Trench 45-13	S	1100
97354	W Trench 65-9	S	450
Reporting Limit unless otherwise stated; ND means not detected above the reporting limit		W	5 mg/L
		S	50 mg/kg

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

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

DHS Certification No. 1644

Edward Hamilton, Lab Director

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

QC REPORT FOR HYDROCARBON ANALYSES

Date: 10/21/98-10/22/98 Matrix: WATER

Analyte	Concentration (mg/L) Sample (#97115)	MS	MSD	Amount Spiked	% Recovery MS	MSD	RPD
TPH (gas)	0.0	73.0	78.3	100.0	73.0	78.3	6.9
Benzene	0.0	9.5	9.7	10.0	95.0	97.0	2.1
Toluene	0.0	9.9	9.9	10.0	99.0	99.0	0.0
Ethyl Benzene	0.0	9.7	9.7	10.0	97.0	97.0	0.0
Xylenes	0.0	30.1	29.9	30.0	100.3	99.7	0.7
TPH(diesel)	0.0	170	171	150	113	114	1.1
TRPH (oil & grease)	0	27500	26900	23700	116	114	2.2

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

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

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QC REPORT FOR HYDROCARBON ANALYSES

Date: 10/23/98-10/24/98 Matrix: WATER

Analyte	Concentration (mg/L) Sample (#96818)	MS	MSD	Amount Spiked	% Recovery MS	MSD	RPD
TPH (gas)	0.0	89.0	93.9	100.0	89.0	93.9	5.4
Benzene	0.0	9.6	9.3	10.0	96.0	93.0	3.2
Toluene	0.0	9.9	9.5	10.0	99.0	95.0	4.1
Ethyl Benzene	0.0	9.9	9.8	10.0	99.0	98.0	1.0
Xylenes	0.0	30.2	29.4	30.0	100.7	98.0	2.7
TPH(diesel)	0.0	165	159	150	110	106	3.9
TRPH (oil & grease)	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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

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

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110 2nd Avenue South, #D7, Pacheco, CA 94553
Tele: 925-798-1620 Fax: 925-798-1622

QC REPORT FOR HYDROCARBON ANALYSES

Date: 10/22/98 Matrix: SOIL

Analyte	Concentration (mg/kg) Sample (#90401)	MS	MSD	Amount Spiked	% Recovery MS	MSD	RPD
TPH (gas)	0.000	2.103	2.180	2.03	104	107	3.6
Benzene	0.000	0.208	0.228	0.2	104	114	9.2
Toluene	0.000	0.214	0.236	0.2	107	118	9.8
Ethylbenzene	0.000	0.206	0.228	0.2	103	114	10.1
Xylenes	0.000	0.612	0.662	0.6	102	110	7.8
TPH(diesel)	0	318	325	300	106	108	2.1
TRPH (oil and grease)	0.0	23.5	24.6	20.8	113	118	4.6

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

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

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

QC REPORT FOR HYDROCARBON ANALYSES

Date: 10/23/98-10/24/98 Matrix: SOIL

Analyte	Concentration (mg/kg) Sample (#90401)	MS	MSD	Amount Spiked	% Recovery MS	MSD	RPD
TPH (gas)	0.000	2.103	2.180	2.03	104	107	3.6
Benzene	0.000	0.208	0.228	0.2	104	114	9.2
Toluene	0.000	0.214	0.236	0.2	107	118	9.8
Ethylbenzene	0.000	0.206	0.228	0.2	103	114	10.1
Xylenes	0.000	0.612	0.662	0.6	102	110	7.8
TPH(diesel)	0	316	314	300	105	105	0.7
TRPH (oil and grease)	0.0	22.2	22.1	20.8	107	106	0.5

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

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

CHROMALAB, INC.

Environmental Services (SDB)

October 27, 1998 *Submission #:* 9810364

MCCAMPBELL ANALYTICAL, INC.

Atten: Ed Hamilton

Project: AE-AVSB *Project#:* 12737-300
Received: October 21, 1998

re: One sample for Polynuclear Aromatic Hydrocarbons (PAHs) analysis.
Method: *SW846 Method 8270A Nov 1990*

Client Sample ID: **GW-1 FILTER**
Spl#: 211518 *Matrix:* WATER *Extracted:* October 22, 1998
Sampled: October 19, 1998 *Run#:* 15557 *Analyzed:* October 22, 1998

ANALYTE	RESULT (ug/L)	REPORTING LIMIT (ug/L)	BLANK RESULT (ug/L)	BLANK SPIKE (%)	DILUTION FACTOR
NAPHTHALENE	N.D.	2.0	N.D.	--	1
ACENAPHTHYLENE	N.D.	2.0	N.D.	--	1
ACENAPHTHENE	N.D.	2.0	N.D.	71.3	1
FLUORENE	N.D.	5.0	N.D.	--	1
PHENANTHRENE	N.D.	2.0	N.D.	--	1
ANTHRACENE	N.D.	2.0	N.D.	--	1
FLUORANTHENE	N.D.	2.0	N.D.	--	1
PYRENE	N.D.	2.0	N.D.	101	1
BENZO(A)ANTHRACENE	N.D.	2.0	N.D.	--	1
CHRYSENE	N.D.	2.0	N.D.	--	1
BENZO(B)FLUORANTHENE	N.D.	2.0	N.D.	--	1
BENZO(K)FLUORANTHENE	N.D.	2.0	N.D.	--	1
BENZO(A)PYRENE	N.D.	2.0	N.D.	--	1
INDENO(1,2,3-CD)PYRENE	N.D.	2.0	N.D.	--	1
DIBENZO(A,H)ANTHRACENE	N.D.	2.0	N.D.	--	1
BENZO(GHI)PERYLENE	N.D.	2.0	N.D.	--	1

Michael Lee
Analyst

Michael Verona
Operations Manager

925-798-1622 GC 10/28

1220 Quarry Lane • Pleasanton, California 94566-4756
(925) 484-1919 • Facsimile (925) 484-1096
Federal ID #68-0140157

C.L. 4910736 | 211518

CLIENT: MCCAN
DUE: 10/20/98
REF #: 42698

McCAMPBELL ANALYTIC

110 2nd AVENUE SOUTH, #D.
PACHECO, CA 94553-5560
Telephone: (925) 798-1620 Fax: (925) 798-1622

USTODY RECORD

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

Report To: ED HAMILTON Bill To: MAI
Project #: 12737 Project Name: AE-AVSB
Project Location:

SAMPLE ID	LOCATION	SAMPLING Date	SAMPLING Time	# Containers	Type Containers	MATRIX Water	Soil	Air	Sludge	Other	METHOD PRESERVED Ice	HCl	HNO_3	Other	EPA 601/8010	EPA 602/8020	EPA 608/808	EPA 608/8080-PCB's only	EPA 624/8240/8260	EPA 625/8270 PAH's only	CAM – 17 Metals	EPA – Priority Pollutant Metals	LUFT Metals	LEAD (7240/7421/239.2/6010)	ORGANIC LEAD	RCI	COMMENTS
GW-1		10/19/98	1245	2 LTR.		X					X									X							97351

Relinquished By: Maria R. Venegas Date: 10/21/98 Time: 1100 Received By:
Relinquished By: Date: 10/21/98 Time: 1902 Received By: Alex Pineda 10/21/98 1905
Relinquished By: Date: Time: Received By:

Remarks:

12737 x A33

McCAMBELL ANALYTICAL INC.

110 2nd AVENUE SOUTH, #D7
PACHECO, CA 94553
Telephone: (510) 798-1620 Fax: (510) 798-1622

CHAIN OF CUSTODY RECORD

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

Report To: Bill To:

Company: Artesian Environmental

229 Tewksbury Avenue

Point Richmond, CA 94801

Tele: (510) 232-2827 Fax: (510) 232-2823

Project #: 378-002-01 Project Name: Albany USD

Project Location: 603 Key Route Blvd, Albany

Sampler Signature:

SAMPLE ID	LOCATION	SAMPLING Date	SAMPLING Time	# Containers	Type Containers	MATRIX Water	MATRIX Soil	MATRIX Air	MATRIX Sludge	MATRIX Other	METHOD PRESERVED Ice	METHOD PRESERVED HCl	METHOD PRESERVED HNO_3	METHOD PRESERVED Other H_2SO_4	BTEX & TPH as Gas (602/8020 + 8015)/ MTBE	TPH as Diesel (8015)	Total Petroleum Oil & Grease (5520 E&F/B&F)	Total Petroleum Hydrocarbons (418.1)	EPA 601 / 8010	BTEX ONLY (EPA 602 / 8020)	EPA 608 / 8080	EPA 608 / 8080 PCB's ONLY	EPA 624 / 8240 / 8260	EPA 625 / 8270	PAH's / PNA's by EPA 625 / 8270 / 8310	CAM-17 Metals	LUFT 5 Metals	Lead (7240/7421/239.2/6010)	RCI	Other	Comments
GW-1		10/14/98	1245	6		X					X	X		X	X	X	X								X						
S Trench 45-8		10/14/98	1300	1			X									X	X			X											
S Trench 45-13		10/14/98	1310	1			X									X	X			X											
W Trench 65-9		10/14/98	1315	1			X									X	X			X											

97351
97352
97353
97354

ICE/T ✓ PRESERVATION ✓ VOAS | O&G | METALS | OTHER
GOOD CONDITION ✓ APPROPRIATE
HEAD SPACE ABSENT ✓ CONTAINERS ✓

Relinquished By:	Date:	Time:	Received By:
	10/20/98	9:25	Angel Britts #601 (Fed Ex)
Angel Britts	10-20-98	17:12	Maria R. Venegas

Remarks:
Paul Jones to call w/ analyses for soil samples

*Off Hold 10/21/98 5day

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http://www mccampbell.com E-mail: main@mccampbell.com

Artesian Environmental 229 Tewksbury Avenue Point Richmond, CA 94801	Client Project ID: #378-002-01; AVSD	Date Sampled: 10/22/98
		Date Received: 10/23/98
	Client Contact: Paul Jones	Date Extracted: 10/23/98
	Client P.O:	Date Analyzed: 10/23/98

10/30/98

Dear Paul

Enclosed are:

1). the results of **10** samples from your **#378-002-01; AVSD** project,

2). a QC report for the above samples

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

4). a bill for analytical services.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits. If you have any questions please contact me. McCampbell Analytical Laboratories strives for excellence in quality, service and cost. Thank you for your business and I look forward to working with you again.

Yours truly,

Edward Hamilton, Lab Director

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Artesian Environmental 229 Tewksbury Avenue Point Richmond, CA 94801	Client Project ID: #378-002-01; AVSD	Date Sampled: 10/22/98
		Date Received: 10/23/98
	Client Contact: Paul Jones	Date Extracted: 10/23-10/28/98
	Client P.O:	Date Analyzed: 10/23-10/28/98

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline*, with Methyl tert-Butyl Ether* & BTEX*

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

Lab ID	Client ID	Matrix	TPH(g)+	MTBE	Benzene	Toluene	Ethylben-zene	Xylenes	% Recovery Surrogate
97622	CSP-1	S	---	---	ND	ND	ND	ND	105
97623	CSP-2	S	---	---	ND	ND	ND	ND	106
97624	CSP-3	S	---	---	ND	ND	ND	ND	107
97625	CSP-4	S	---	---	ND	ND	ND	ND	103
97626	CSP-5	S	---	---	ND	0.007	0 013	ND	107
97627	CSP-6	S	---	---	ND	ND	0.011	ND	99
97628	CSP-7	S	---	---	ND	ND	0.007	0.006	104
97629	CSP-8	S	---	---	ND	ND	ND	ND	103
97630	CONP-1a-d	S	---	---	ND	ND	ND	ND	109
97631	CONP-2a-d	S	---	---	ND	ND	ND	0.063	105
Reporting Limit unless otherwise stated; ND means not detected above the reporting limit		W	50 ug/L	5.0	0.5	0 5	0.5	0.5	
		S	1.0 mg/kg	0.05	0.005	0.005	0.005	0.005	

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

cluttered chromatogram; sample peak coelutes with surrogate peak

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

DHS Certification No. 1644

Edward Hamilton, Lab Director

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Artesian Environmental 229 Tewksbury Avenue Point Richmond, CA 94801	Client Project ID: #378-002-01, AVSD	Date Sampled: 10/22/98
		Date Received: 10/23/98
	Client Contact: Paul Jones	Date Extracted: 10/23/98
	Client P.O:	Date Analyzed: 10/26-10/29/98

Diesel Range (C10-C23) Extractable Hydrocarbons as Diesel *

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

Lab ID	Client ID	Matrix	TPH(d)[+]	% Recovery Surrogate
97622	CSP-1	S	2.0,g	101
97623	CSP-2	S	26,b,g	101
97624	CSP-3	S	250,c,g	102
97625	CSP-4	S	ND	100
97626	CSP-5	S	2600,b,g	109
97627	CSP-6	S	990,b,g	109
97628	CSP-7	S	210,b,g	89
97629	CSP-8	S	2.7,g	89
97630	CONP-1a-1d	S	430,b,g	105
97631	CONP-2a-d	S	180,b,g	104
Reporting Limit unless otherwise stated; ND means not detected above the reporting limit		W	50 ug/L	
		S	1.0 mg/kg	

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

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

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

DHS Certification No. 1644

Edward Hamilton, Lab Director

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Artesian Environmental 229 Tewksbury Avenue Point Richmond, CA 94801	Client Project ID: #378-002-01; AVSD	Date Sampled: 10/22/98
		Date Received: 10/23/98
	Client Contact: Paul Jones	Date Extracted: 10/23-10/26/98
	Client P.O:	Date Analyzed: 10/23-10/26/98

Petroleum Oil & Grease (with Silica Gel Clean-up) *

EPA methods 413.1, 9070 or 9071; Standard Methods 5520 D/E&F or 503 D&E for solids and 5520 B&F or 503 A&E for liquids

Lab ID	Client ID	Matrix	Oil & Grease*
97622	CSP-1	S	380
97623	CSP-2	S	620
97624	CSP-3	S	2200
97625	CSP-4	S	ND
97626	CSP-5	S	2600
97627	CSP-6	S	3000
97628	CSP-7	S	1300
97629	CONSP-1a	S	ND
97630	CONP-1a-d	S	1300
97631	CONP-2a-d	S	440
Reporting Limit unless otherwise stated; ND means not detected above the reporting limit		W	5 mg/L
		S	50 mg/kg

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

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

DHS Certification No. 1644

Edward Hamilton, Lab Director

McCAMPBELL ANALYTICAL INC.
110 Second Avenue South, #D7, Pacheco, CA 94553-5560
Telephone : 925-798-1620 Fax : 925-798-1622
http://www.mccampbell.com E-mail: main@mccampbell.com

Artesian Environmental 229 Tewksbury Avenue Point Richmond, CA 94801	Client Project ID: #378-002-01; AVSD	Date Sampled: 10/22/98 Date Received: 10/23/98
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	Client P.O:	Date Analyzed: 10/26/98

Lead*

EPA analytical methods 6010/200.7, 239.2[+]

Lab ID	Client ID	Matrix	Extraction °	Lead*	% Recovery Surrogate
97630	CONSP-1a-d	S	TTLC	10	102
Reporting Limit unless otherwise stated; ND means not detected above the reporting limit		S	TTLC	3.0 mg/kg	
		W	TTLC	0.005 mg/L	
		---	STLC,TCLP	0 2 mg/L	

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

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

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

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

& reporting limit raised due matrix interference

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

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Artesian Environmental 229 Tewksbury Avenue Point Richmond, CA 94801	Client Project ID: #378-002-01; AVSD	Date Sampled: 10/22/98
		Date Received: 10/23/98
	Client Contact: Paul Jones	Date Extracted: 10/26/98
	Client P.O:	Date Analyzed: 10/26/98

RCI (Reactivity , Corrosivity & Ignitability) for Solids

California Title 22, Section 66261.21-66261.23

Lab ID	Client ID	Matrix	Reactivity[+]	Corrosivity[#] (pH @ _°C)	Ignitability[°]
97630	CONSP-1a-d	S	negative	7.70 @ 23°	negative
97631	CONSP-2a-d	S	negative	6.87 @ 22°	negative

[+] negative means no obvious reaction with water, no evolution of gas upon contact with water, appears to contain no reactive cyanide or sulfide (<~5 mg/kg cyanide and 50 mg/kg sulfide by EPA SW-846, chapter 7, modified), and shows no indication of explosivity.

[#] EPA method 9045; pH = $-\log(a_{H+})$ @ _°C; ± 0.1 units

[°] negative for a soil means the absence of spontaneous combustion and the absence of flammability upon exposure to a naked flame.

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Edward Hamilton, Lab Director

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

QC REPORT FOR HYDROCARBON ANALYSES

Date: 10/23/98-10/24/98 Matrix: SOIL

Analyte	Concentration (mg/kg) Sample (#90401)	MS	MSD	Amount Spiked	% Recovery MS	MSD	RPD
TPH (gas)	0.000	2.103	2.180	2.03	104	107	3.6
Benzene	0.000	0.208	0.228	0.2	104	114	9.2
Toluene	0.000	0.214	0.236	0.2	107	118	9.8
Ethylbenzene	0.000	0.206	0.228	0.2	103	114	10.1
Xylenes	0.000	0.612	0.662	0.6	102	110	7.8
TPH(diesel)	0	316	314	300	105	105	0.7
TRPH (oil and grease)	0.0	22.2	22.1	20.8	107	106	0.5

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

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

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

QC REPORT FOR HYDROCARBON ANALYSES

Date: 10/26/98-10/27/98 Matrix: SOIL

Analyte	Concentration (mg/kg) Sample (#90401)	MS	MSD	Amount Spiked	% Recovery MS	MSD	RPD
TPH (gas)	0.000	1.835	1.864	2.03	90	92	1.6
Benzene	0.000	0.196	0.204	0.2	98	102	4.0
Toluene	0.000	0.198	0.208	0.2	99	104	4.9
Ethylbenzene	0.000	0.202	0.208	0.2	101	104	2.9
Xylenes	0.000	0.604	0.624	0.6	101	104	3.3
TPH(diesel)	0	342	341	300	114	114	0.5
TRPH (oil and grease)	0.0	22.3	21.8	20.8	107	105	2.3

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

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

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

QC REPORT FOR ICP and/or AA METALS

Date: 10/26/98-10/27/98 Matrix: SOIL

Extraction: TTLC

Analyte	Concentration (mg/kg,mg/L)			Amount	% Recovery		
	Sample	MS	MSD	Spiked	MS	MSD	RPD
Total Lead	0.0	5.04	5.17	5.0	101	103	2.6
Total Cadmium	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total Chromium	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total Nickel	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total Zinc	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total Copper	N/A	N/A	N/A	N/A	N/A	N/A	N/A
STLC Lead	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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

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

ICE/T ✓ PRESERVATION
GOOD CONDITION ✓ APPROPRIATE
HEAD SPACE ABSENT ✓ CONTAINERS ✓ 12787 xA 35

McCAMBELL ANALYTICAL INC.

110 2nd AVENUE SOUTH, #D7
PACHECO, CA 94553
Telephone: (510) 798-1620 Fax: (510) 798-1622

CHAIN OF CUSTODY RECORD

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

Report To: Paul Jones Bill To:
Company: Artesian Environmental
229 Tewksbury Avenue
Point Richmond, CA 94801
Tele: (510) 232-2827 Fax: (510) 232-2823
Project #: 378-002-01 Project Name: AUSD
Project Location: 603 Key Ste. Blvd, Albany
Sampler Signature:

SAMPLE ID	LOCATION	SAMPLING Date	SAMPLING Time	# Containers	Type Containers	MATRIX Water	MATRIX Soil	MATRIX Air	MATRIX Sludge	MATRIX Other	METHOD PRESERVED Ice	METHOD PRESERVED HCl	METHOD PRESERVED HNO_3	METHOD PRESERVED Other	BTEX & TPH as Gas (602/8020 + 8015)/ MTBE	TPH as Diesel (8015)	Total Petroleum Oil & Grease (5520 E&F/B&F)	Total Petroleum Hydrocarbons (418.1)	EPA 601 / 8010	BTEX ONLY (EPA 602 / 8020)	EPA 608 / 8080	EPA 608 / 8080 PCB's ONLY	EPA 624 / 8240 / 8260	EPA 625 / 8270	PAH's / PNA's by EPA 625 / 8270 / 8310	CAM-17 Metals	LUFT 5 Metals	Lead (7240/7421/239.2/6010)	RCI	Other	Comments
CSP-1		10/22/98	1123	1			X									X	X			X											97622
CSP-2		10/22/98	1133	1			X									X	X			X											97623
CSP-3		10/22/98	1142	1			X									X	X			X											97624
CSP-4		10/22/98	1151	1			X									X	X			X											97625
CSP-5		10/22/98	1204	1			X									X	X			X											97626
CSP-6		10/22/98	1212	1			X									X	X			X											97627
CSP-7		10/22/98	1227	1			X									X	X			X											97628
CONSP-1a		10/22/98	12:46	1			X									X	X			X								X	X		97629
CSP-8		10/22/98	12:34	1			X									X	X			X											97630 CONSP-1
CONSP-1b		10/22/98	13:04	1			X																								
CONSP-1c		10/22/98	13:17	1			X																								
CONSP-1d		10/22/98	13:24	1			X																								
CONSP-2a		10/22/98	13:35	1			X									X	X			X									X		97631 CONSP-2
CONSP-2b		10/22/98	13:45	1			X																								
CONSP-2c		10/22/98	13:53	1			X																								

Relinquished By:	Date:	Time:	Received By:
	10-23	8:45	
Relinquished By:	Date:	Time:	Received By:
Relinquished By:	Date:	Time:	Received By:

Remarks:
Please composite samples as follows:
CONSP-1a
CONSP-1b
CONSP-1c
CONSP-1d
→ CONSP-1

CONSP-2a
CONSP-2b
CONSP-2c
CONSP-2d
→ CONSP-2

Other: P. Jones to call w/ T.A.T.

McCAMBELL ANALYTICAL INC.

110 2nd AVENUE SOUTH, #D7
PACHECO, CA 94553

Telephone: (510) 798-1620 Fax: (510) 798-1622

CHAIN OF CUSTODY RECORD

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

Report To: Paul Jones Bill To:

Company: Artesian Environmental

229 Tewksbury Avenue

Point Richmond, CA 94801

Tele: (510) 232-2827 Fax: (510) 232-2823

Project #: 378-002-01 Project Name: AUSD

Project Location: 603 Key Rte. Blvd. Albany

Sampler Signature:

SAMPLE ID	LOCATION	SAMPLING Date	SAMPLING Time	# Containers	Type Containers	MATRIX Water	MATRIX Soil	MATRIX Air	MATRIX Sludge	MATRIX Other	METHOD PRESERVED Ice	METHOD PRESERVED HCl	METHOD PRESERVED HNO3	METHOD PRESERVED Other
CONSP-20		10/22/98	14:02	1			X							

Analysis Request

BTEX & TPH as Gas (602/8020 + 8015) MTBE	TPH as Diesel (8015)	Total Petroleum Oil & Grease (5520 E&F/B&F)	Total Petroleum Hydrocarbons (418.1)	EPA 601 / 8010	BTEX ONLY (EPA 602 / 8020)	EPA 608 / 8080	EPA 608 / 8080 PCB's ONLY	EPA 624 / 8240 / 8260	EPA 625 / 8270	PAH's / PNA's by EPA 625 / 8270 / 8310	CAM-17 Metals	LUFT 5 Metals	Lead (7240/7421/239.2/6010)	RCI

Other | Comments

Relinquished By:	Date:	Time:	Received By:
	10-23	8:45	Ed Parker
Relinquished By:	Date:	Time:	Received By:
Relinquished By:	Date:	Time:	Received By:

Remarks:

APPENDIX E: TABLES

TABLE 1: EXCAVATION SOIL AND GROUNDWATER SAMPLE RESULTS

Albany Unified School District

603 Key Route Boulevard

Albany, California

Sample Location	Sample Date	TPH-d mg/Kg	TPH-g mg/Kg	TPH-og mg/Kg	Benzene mg/Kg	Toluene mg/Kg	Ethylbenzene mg/Kg	Xylenes mg/Kg	MTBE mg/Kg	PAH mg/Kg
CS-East	10-14-98	100	11	460	ND	ND	ND	0.057	ND	All ND
CS-West	10-14-98	1,100	74	2,400	ND	0.031	ND	0.330	ND	*NA*
CS-North Wall	10-14-98	1,300	*NA*	760	ND	0.036	ND	0.380	*NA*	*NA*
WTrench 65-13	10-16-98	2,500	*NA*	14,000	ND	0.067	ND	0.790	*NA*	*NA*
WTrench 65-9	10-19-98	280	*NA*	450	ND	ND	0.008	0.028	*NA*	*NA*
STrench 45-8	10-19-98	350	*NA*	460	ND	ND	ND	0.013	*NA*	*NA*
STrench 45-13	10-19-98	1,400	*NA*	1,100	ND	0.021	ND	0.230	*NA*	*NA*
GW-1*	10-19-98	920 µg/L	ND	ND	ND	ND	ND	ND	ND	All ND

NOTES:			
TPH-g	Total Petroleum Hydrocarbons as gasoline	mg/Kg	milligrams per kilogram (ppm)
TPH-d	Total Petroleum Hydrocarbons as diesel	µg/L	*micrograms per liter (ppb)*
TPH-og	Total Petroleum Hydrocarbons as oil and grease	ND	Not Detected (above reporting limit)
MTBE	Methyl Tertiary Butyl Ether	*NA*	Not Analyzed
PAH	Polynuclear Aromatic Hydrocarbons	ppm	parts per million
*	Groundwater sample results reported in µg/L	ppb	parts per billion

TABLE 2: STOCKPILE SOIL SAMPLE RESULTS

Albany Unified School District

603 Key Route Boulevard

Albany, California

Sample Location	Sample Date	TPH-d mg/Kg	TPH-og mg/Kg	Benzene mg/Kg	Toluene mg/Kg	Ethylbenzene mg/Kg	Xylenes mg/Kg	Lead mg/Kg	RCI*
CSP-1	10-22-98	2	380	ND	ND	ND	ND	*NA*	*NA*
CSP-2	10-22-98	26	620	ND	ND	ND	ND	*NA*	*NA*
CSP-3	10-22-98	250	2,200	ND	ND	ND	ND	*NA*	*NA*
CSP-4	10-22-98	ND	ND	ND	ND	ND	ND	*NA*	*NA*
CSP-5	10-22-98	2,600	2,600	ND	0.007	0.013	ND	*NA*	*NA*
CSP-6	10-22-98	990	3,000	ND	ND	0.011	ND	*NA*	*NA*
CSP-7	10-22-98	210	1,300	ND	ND	0.007	0.006	*NA*	*NA*
CSP-8	10-22-98	2.70	ND	ND	ND	ND	ND	*NA*	*NA*
CONSP-1	10-22-98	430	1300	ND	ND	ND	ND	ND	Acceptable
CONSP-2	10-22-98	180	440	ND	ND	ND	0.063	*NA*	Acceptable

NOTES:			
TPH-d	Total Petroleum Hydrocarbons as diesel	mg/Kg	milligrams per kilogram (ppm)
TPH-og	Total Petroleum Hydrocarbons as oil and grease	ppm	parts per million
RCI	Reactivity, Corrosivity, and Ignitability	ND	Not Detected (above reporting limit)
*	Samples tested negative for reactivity and ignitability with pH near neutral (7)	*NA*	Not Analyzed