

ARTESIAN ENVIRONMENTAL PROTECTION

August 9, 1998

98 AUG 19 AM 1:56

Mr. Tom Peacock
Alameda County Environmental Health Department
1131 Harbor Parkway
Alameda, CA 94502-6577

2710 3676

Re: **Soil and Groundwater Remediation Report**
Albany Middle School
1259 Brighton Avenue
Albany, California

"No further work"

Dear Mr. Peacock:

Artesian Environmental Consultants (Artesian) has been retained by Mr. Richard Vila of Vila Construction Company (Vila) of Richmond, California on behalf of the Albany Unified School District to provide environmental services. Artesian is pleased to present this letter report documenting soil and groundwater remediation activities at 1259 Brighton Avenue in Albany, California. Artesian was retained to over excavate petroleum hydrocarbon impacted soil at the referenced site (Figures 1-3).

SITE SETTING

The site is at an elevation of 55 to 75 feet above mean sea-level on a gently sloping plane dipping towards the west. The Berkeley Hills are located approximately 3,000 feet to the east and Albany Hill is located approximately 2,000 feet to the west. The Cerrito Creek culvert is located in the southern portion of the site and drains the area to the west towards the San Francisco Bay approximately one mile to the west. Direction of groundwater flow at the site is unknown; the topographic gradient at the site is to the west. The site is located in a light commercial and residential area in the northern part of Albany. The site bounded by Brighton Avenue to the south, Spokane Avenue to the east, Cougar Field (Albany High School football stadium) to the north, and Bay Area Rapid Transit (BART) right of way to the south. Cerrito Creek culvert is located in the southern portion of the site.

SITE BACKGROUND

A Geotechnical Investigation Report dated June 4, 1996, prepared by Kleinfelder, Inc. (Kleinfelder), was prepared for the AUSD for the construction of the new Albany Middle School. According to the Kleinfelder Report, two underground storage tanks (USTs) located on the southwestern portion of the site were utilized by the former Hill Lumber Company. One 1,000 gallon fuel UST and one 500 gallon fuel UST were removed from the site and four groundwater monitoring wells were installed in the vicinity of the two USTs prior to September 1992. One 250 gallon fuel UST was utilized by the City of Albany Corporation Yard (CACY) located in the eastern portion of the site. The UST was removed from the site in April 1991. Kleinfelder drilled 10 geotechnical borings to a maximum depth of 45 feet below ground surface (bgs). Ammonia odors were noted at a depth of 4 feet in Boring B-9 located in the general vicinity of the former Hill Lumber USTs, no samples were submitted for chemical analyses.

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7
where?

On June 30, 1998, Consolidated Engineering Laboratories of Pleasanton, California collected two shallow soil samples in the vicinity of the former CACY UST. The samples were collected to investigate an excavation area where petroleum odors were encountered. The soil samples analyzed by the laboratory contained up to 2,700 milligrams per Kilogram (mg/Kg) equivalent to parts per million (ppm) Total Petroleum Hydrocarbons as diesel (TPH-d).

FIELD ACTIVITIES

During the last week of June, 1998, Vila Construction was in the process of grading a pad for the new school. Vila noted hydrocarbon odors and a greenish-gray visual staining in one area indicating soils impacted by diesel. On July 2, 1998, Artesian Project Manager David Dell'Osso inspected the site, notified appropriate authorities and prepared a site safety plan for the project. From July 5 to July 7, 1998, Artesian excavated petroleum hydrocarbon impacted soil forming an excavation approximately 31 feet long, 22 feet wide and 8 feet deep. Approximately 1,000 gallons of groundwater was pumped from the excavation and temporarily stored in a 4,900 gallon storage tank. Sidewalls were field screened using a photoionization detector (PID) to assess if impacted soil had been removed. Confirmation samples were collected from the side walls and submitted to a California certified laboratory for chemical analyses. A groundwater sample was collected from the open excavation and submitted to the laboratory. Two shallow soil samples were also collected in the vicinity of the former Hill Lumber Company USTs and submitted to the laboratory.

who?

The impacted soil (estimated to be about 180 cubic yards) was excavated and stockpiled on plastic. The stockpiled soil was sampled to profile the soil for disposal. At the conclusion of excavating and sampling, the stockpile was covered with weighted plastic and the open excavation was secured with fencing.

where?

LABORATORY ANALYSES

A total of 11 soil samples and one groundwater sample were analyzed by Calcoast Analytical of Emeryville, California. The laboratory is state certified for the analyses performed. Four sidewall samples were collected from the excavation walls, and four stockpile samples were collected. Soil stockpile samples, SP1A and SP1B through SP5A and SP5B, (Figure 4) were composited in the lab into Comp#1 through Comp#5, respectively. Two additional samples, Pad A and Pad A(2) were sampled and the results were below laboratory reporting limits (Refer to Figure 3). The soil samples were analyzed for TPH-d by EPA Method 8015M, TPH-g by EPA Method 8015M, and BTEX by EPA Method 8020. A summary of the analytical is included as Table 1. The laboratory data reports and chain-of-custody forms are included with this report. One grab groundwater sample was collected by Artesian on July 7, 1998 from the excavation.

The soil confirmation samples collected from sidewalls (Figure 5) contained no targeted analytes. One stockpile sample contained 390 ppm TPH-d, all other targeted analytes were below the laboratory reporting limits. The groundwater sample collected from the excavation contained 90 micrograms per liter ($\mu\text{g/L}$) equivalent to parts per billion (ppb) TPH-d, all other targeted analytes were below the laboratory

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reporting limits. Field screening with a PID and confirmation samples analyzed by the laboratory indicate that the impacted soil has been removed.

GROUNDWATER REMEDIATION

On July 7, 1998, Artesian pumped 1,000 gallons of impacted groundwater from the excavation and stored the diesel impacted groundwater in a 4,900 gallon poly tank on-site. On July 14, 1998, Artesian pumped an additional 3,900 gallons of water, making the total pumping of 4,900 gallons of impacted groundwater. After removing the 3,900 gallons of impacted groundwater on July 14, 1998,

Natural biodegradation of petroleum hydrocarbons occurs when the right conditions are present. The residual diesel hydrocarbon fuel present at the Albany Middle School site represents food to the specialized, naturally occurring microbes. Nutrients (phosphates, nitrates) are frequently present, however oxygen (the electron acceptor) is typically the limiting factor for biodegradation. Optimum oxygen in the subsurface for biodegradation is 8 to 9%. After the naturally occurring oxygen is used up in the subsurface, hydrocarbon degradation declines markedly or stops completely. ORC®, made by Regenesis, is magnesium peroxide and will slowly release oxygen in the groundwater zone to enhance natural aerobic biodegradation processes that can reduce the residual petroleum hydrocarbons into carbon dioxide and water. The ORC® is approximately 8% oxygen by weight. The weight of hydrocarbons requires about 3.14 times the weight of oxygen for biotreatment. The reaction of ORC® is shown below:

Magnesium peroxide (ORC®) + water = oxygen (O₂) + magnesium hydroxide

On July 14, 1998, Project Manager David Dell'Osso mixed up 60 lbs. of magnesium peroxide with, a slow oxygen release compound (ORC® by Regenesis Bioremediation Products of San Capistrano, California). Artesian installed the ORC® mixture into the 3/4 inch diameter drain rock at the base of the excavation to provide a treatment zone for residual groundwater contamination.

TRANSPORTATION AND DISPOSAL

On July 20, 1998, Artesian Project Manager, David Dell'Osso supervised the removal of the impacted soils. Lutrel Trucking from Bakersfield, California performed the transportation of the impacted soils using ten 18 year trucks. Artesian arranged for the transportation of 223.37 tons of petroleum hydrocarbon impacted soil to Altamont Landfill in Altamont, California, a Class II landfill. The diesel impacted soils were used as landfill cover. Clearwater Environmental of Fremont, California transported 5,100 gallons of water from the tank (4,900 gallons) as well as 200 gallons of rinse water needed to clean out the tank. The impacted water was taken to a water treatment facility in Seaport in San Mateo, California. Excavating and grading activities by Vila Construction continued at the site as normal.

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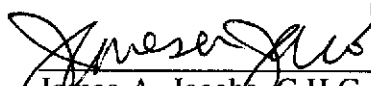
RECOMMENDATIONS

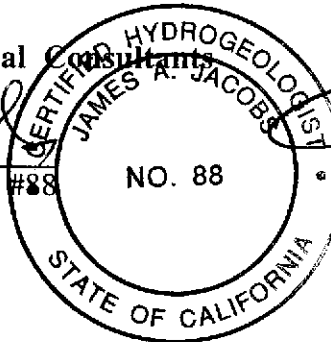
Based on the soil and groundwater remediation activities performed by Artesian on the site, and the laboratory results, Artesian recommends no further work at this time and site closure. However, since this is a school, in order to minimize risks of uncertainty regarding residual levels of petroleum hydrocarbon contamination in the shallow groundwater, a risk based corrective action (RBCA) model can be performed, if needed by the regulatory agency.

Please call us at (510) 307-9943 if you have any questions.

Sincerely,

Artesian Environmental Consultants


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




David Dell'Osso
Project Manager

cc: Client's Representative:
Mr. Richard Vila
Vila Construction Company
590 South 33rd Street
Richmond, California 94804

Mr. Chuck Headlee
Regional Water Quality Control Board
San Francisco Bay Region
1515 Clay St., Suite 1400
Oakland, CA 94612

TABLE 1 - SUMMARY OF ANALYTICAL RESULTS

Sampled by: Project Manager: David Dell'Osso, Artesian Environmental

Sampling Date: All sampling was done on 7/7/98

<u>Sample ID</u>	<u>TPH-g</u> ppm	<u>TPH-d</u> ppm	<u>B-T-E-X</u> ppb
<u>Soil Stockpile Samples: (Composited)</u>			
Comp #1	ND	ND	ND-ND-ND-ND
Comp #2	ND	ND	ND-ND-ND-ND
Comp #3	ND	ND	ND-ND-ND-ND
Comp #4	ND	ND	ND-ND-ND-ND
Comp #5	ND	390	ND-ND-ND-ND
Pad A	ND	ND	ND-ND-ND-ND
Pad A (2)	ND	ND	ND-ND-ND-ND

Confirmation Sidewall Samples:

W-6	ND	ND	ND-ND-ND-ND
S-5	ND	ND	ND-ND-ND-ND
E-5	ND	ND	ND-ND-ND-ND
N-5	ND	ND	ND-ND-ND-ND

Groundwater Sample:

<u>Sample ID</u>	<u>TPH-g</u> ppm	<u>TPH-d</u> ppm	<u>B-T-E-X</u> ppb
WS-1	ND	90	ND-ND-ND-ND

NOTES:

TPH-g = total petroleum hydrocarbons as gasoline (EPA Method 8015M)

TPH-d = total petroleum hydrocarbons as diesel (EPA Method 8015M)

BTEX = benzene, toluene, ethylbenzene and toluene (EPA Method 8020)

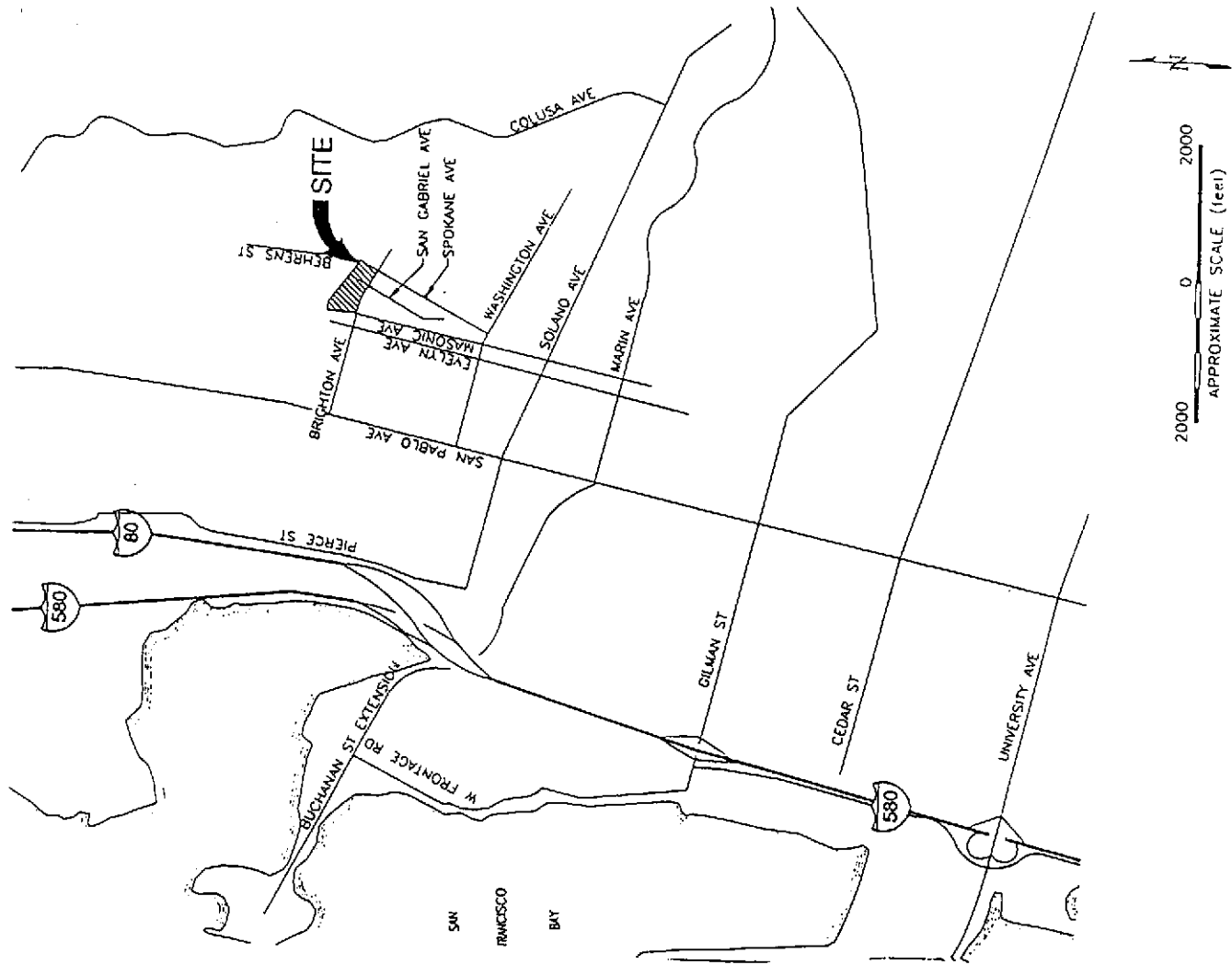
ppm = parts per million

ppb = parts per billion

ND = below laboratory reporting level, "non detect"

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(After Kleinfelder, 1996)

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 Phone (510) 232-2728 Fax (510) 232-2823

NEW ALBANY MIDDLE SCHOOL: SITE VICINITY MAP
 Vila Construction Company
 Brighton and Spokane Avenues
 Albany, California

Project No.: 378-001-01

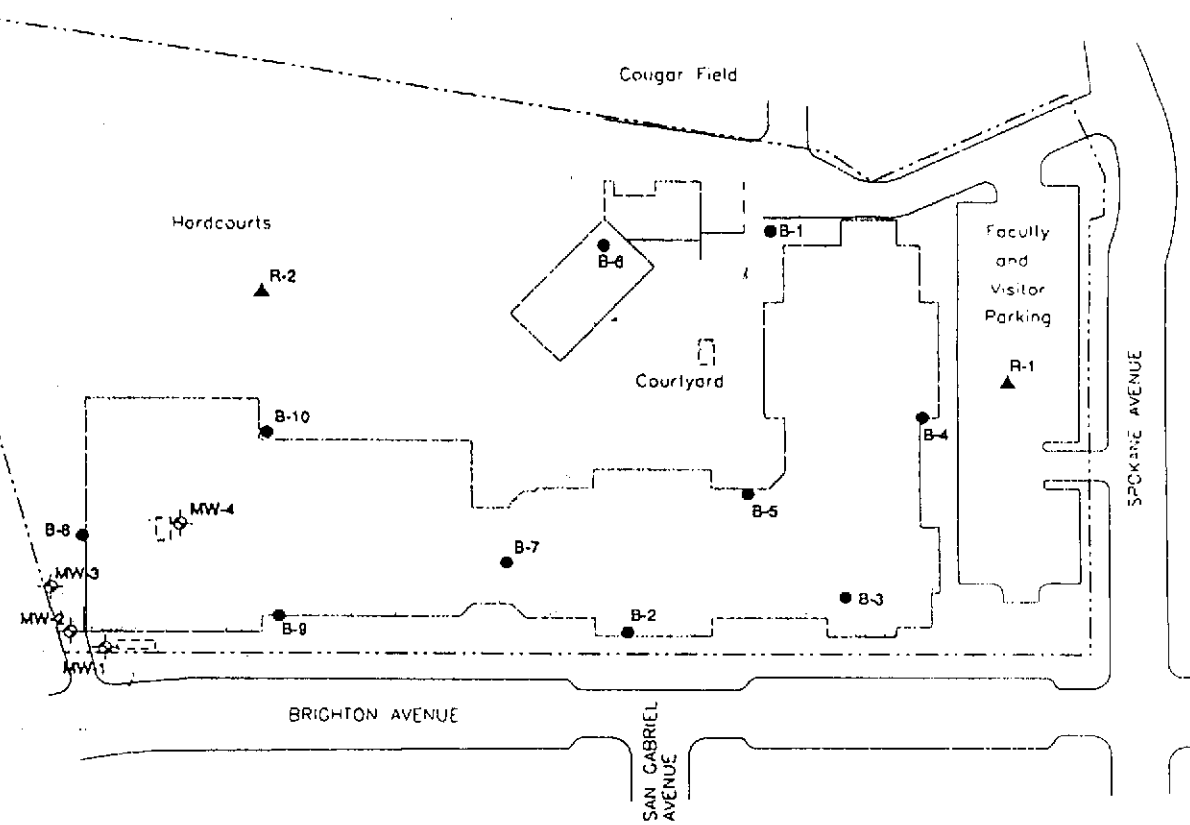
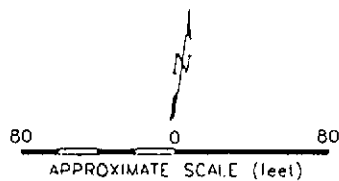
Date: 8/7/98

Prepared by: J. Jacobs

Figure 1

LEGEND

- PROPERTY LOCATION
(approximate location)
- SOIL BORING
(approximate location)
- ▲ BULK SAMPLE
(approximate location)
- PROPOSED STRUCTURES
- UNDERGROUND STORAGE TANK
(approximate location;
removed by others)
- ⊕ EXISTING MONITORING WELL
(installed by others)



(After Kleinfelder, 1996)

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NEW ALBANY MIDDLE SCHOOL: SITE PLAN
 Vila Construction Company
 Brighton and Spokane Avenues
 Albany, California

Project No.: 378-001-01

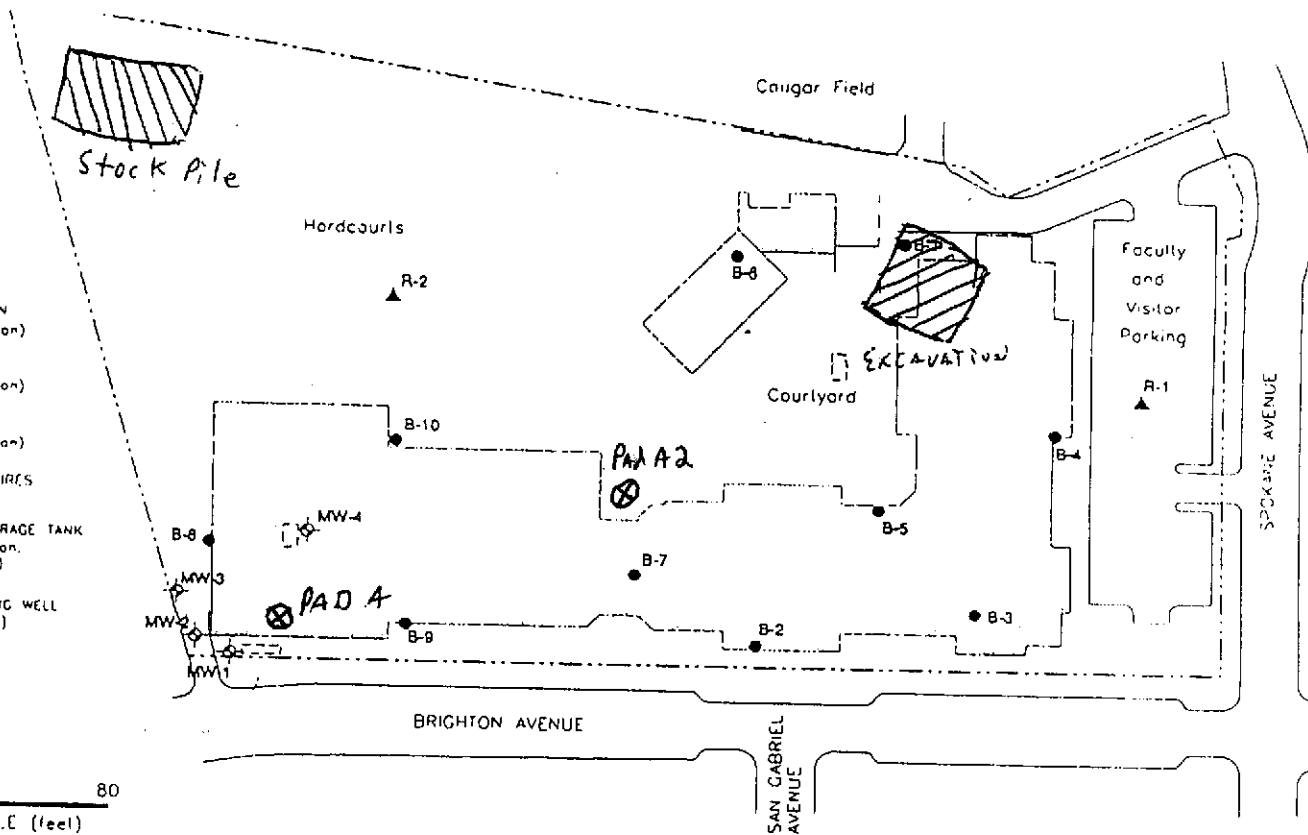
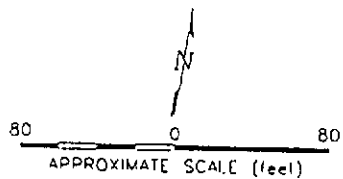
Date: 8/7/98

Prepared by: J. Jacobs

Figure 2

LEGEND

- PROPERTY LOCATION (approximate location)
- SOIL BORING (approximate location)
- ▲ BULK SAMPLE (approximate location)
- ▭ PROPOSED STRUCTURES
- UNDERGROUND STORAGE TANK (approximate location, removed by others)
- ⊕ EXISTING MONITORING WELL (installed by others)



(After Kleinfelder, 1996)

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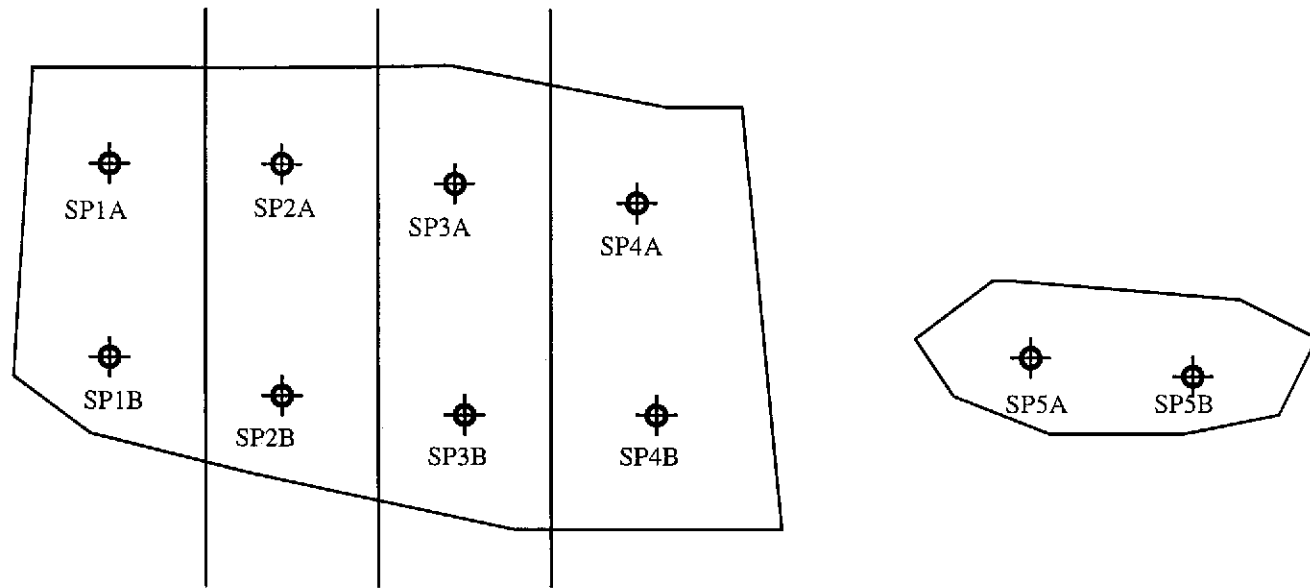
NEW ALBANY MIDDLE SCHOOL: SITE PLAN: 7/98
 Vila Construction Company
 Brighton and Spokane Avenues
 Albany, California

Project No.: 378-001-01

Date: 8/7/98

Prepared by: J. Jacobs

Figure 3



Soil stockpile map; samples collected 7/7/98

soil sample location

No scale implied

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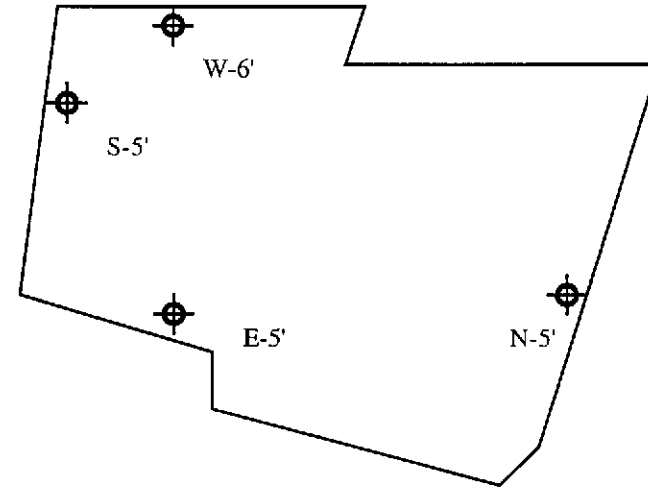
NEW ALBANY MIDDLE SCHOOL: SITE PLAN: 7/98
Vila Construction Company
 Brighton and Spokane Avenues
 Albany, California

Project No.: 378-001-01


Date: 8/7/98

Prepared by: J. Jacobs

Figure 4



Excavation confirmation samples collected in walls on 7/7/98. Floor samples were not collected due to groundwater in the bottom of the excavation.

 soil sample location

No scale implied

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NEW ALBANY MIDDLE SCHOOL: Soil Sampling Map
Vila Construction Company
Brighton and Spokane Avenues
Albany, California

Project No.: 378-001-01

Date: 8/7/98

Prepared by: J. Jacobs

Figure 5

CALCOAST ANALYTICAL

Materials Chemistry

Certified by
California Department of Health Services
City of Los Angeles, Dept. of Building & Safety

July 10, 1998

Artesian Environmental
229 Tewdsbury Avenue
Point Richmond, CA 94801

Attn: Mr. David Dell'Osso

Ref: Lab File No. 0707-10A/L-98(b)

1. SAMPLE(S):

Sixteen (16) soil cores which are composited into eleven (11) samples;

Project: Vila-Albany School

Project No.: 378-001-01

Samples:

A.	Comp #1; Cores SP1A & SP1B
B.	Comp #2; Cores SP2A & SP2B
C.	Comp #3; Cores SP3A & SP3B
D.	Comp #4; Cores SP4A & SP4B
E.	Comp #5; Cores SP5A & SP5B
F.	Pad A (2)
G.	Pad A
H.	W-6
I.	S-5
J.	E-5
K.	N-5

2. ANALYSIS REQUIRED:

- A. Total Petroleum Hydrocarbons - gasoline (TPH-g) by Gas Chromatography (GC)
- B. Total Petroleum Hydrocarbons - diesel (TPH-d) by GC
- C. Benzene, Toluene, Ethylbenzene and Xylenes by GC

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FAX (510) 652-3085

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4072 WATTS STREET • EMERYVILLE, CA 94608

3. METHODS OF ANALYSIS:

- A. EPA Method 8015; SW-846
- B. EPA Method 8015; SW-846
- C. EPA Method 8020; SW-846

4. RESULTS:

A. TPH - gasoline

Sample	TPH - gasoline (mg/kg)
A. Comp #1	< 0.1 (ND)
B. Comp #2	< 0.1 (ND)
C. Comp #3	< 0.1 (ND)
D. Comp #4	< 0.1 (ND)
E. Comp #5	< 0.1 (ND)
F. Pad A (2)	< 0.1 (ND)
G. Pad A	< 0.1 (ND)
H. W-6	< 0.1 (ND)
I. S-5	< 0.1 (ND)
J. E-5	< 0.1 (ND)
K. N-5	< 0.1 (ND)

Method Blank / Detection Limit = < 0.1 mg/kg (none detected)
 Mean Spike Recovery = 108%

B. TPH - diesel

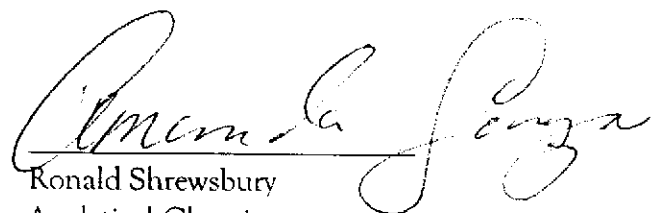
Sample	TPH - diesel (mg/kg)
A. Comp #1	< 0.1 (ND)
B. Comp #2	< 0.1 (ND)
C. Comp #3	< 0.1 (ND)
D. Comp #4	< 0.1 (ND)
E. Comp #5	390
F. Pad A (2)	< 0.1 (ND)
G. Pad A	< 0.1 (ND)
H. W-6	< 0.1 (ND)
I. S-5	< 0.1 (ND)
J. E-5	< 0.1 (ND)
K. N-5	< 0.1 (ND)

Method Blank / Detection Limit = < 0.1 mg/kg (none detected)
 Mean Spike Recovery = 103%

4. RESULTS (continued):

C. BTEX

Sample	Concentration (µg/kg)			
	Benzene	Toluene	Ethylbenzene	Xylene
A. Comp #1	< 5.0 (ND)	< 5.0 (ND)	< 5.0 (ND)	< 5.0 (ND)
B. Comp #2	< 5.0 (ND)	< 5.0 (ND)	< 5.0 (ND)	< 5.0 (ND)
C. Comp #3	< 5.0 (ND)	< 5.0 (ND)	< 5.0 (ND)	< 5.0 (ND)
D. Comp #4	< 5.0 (ND)	< 5.0 (ND)	< 5.0 (ND)	< 5.0 (ND)
E. Comp #5	< 5.0 (ND)	< 5.0 (ND)	< 5.0 (ND)	< 5.0 (ND)
F. Pad A (2)	< 5.0 (ND)	< 5.0 (ND)	< 5.0 (ND)	< 5.0 (ND)
G. Pad A	< 5.0 (ND)	< 5.0 (ND)	< 5.0 (ND)	< 5.0 (ND)
H. W-6	< 5.0 (ND)	< 5.0 (ND)	< 5.0 (ND)	< 5.0 (ND)
I. S-5	< 5.0 (ND)	< 5.0 (ND)	< 5.0 (ND)	< 5.0 (ND)
J. E-5	< 5.0 (ND)	< 5.0 (ND)	< 5.0 (ND)	< 5.0 (ND)
K. N-5	< 5.0 (ND)	< 5.0 (ND)	< 5.0 (ND)	< 5.0 (ND)
Method Blank / Detection Limit	< 5.0 (ND)	< 5.0 (ND)	< 5.0 (ND)	< 5.0 (ND)
Mean Spike Recovery	104%	108%	106%	111%

for 
 Ronald Shrewsbury
 Analytical Chemist

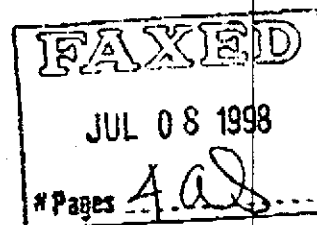
RS:cp

<p>ALL SAMPLES SUBMITTED FOR TESTING WILL BE HELD 30 DAYS FROM REPORT DATE AT WHICH TIME THEY WILL BE RETURNED TO CLIENT OR DESTROYED. CLIENT WILL BE RESPONSIBLE FOR ALL SHIPPING, HANDLING AND DISPOSAL CHARGES. SAMPLES WILL BE STORED UPON WRITTEN INSTRUCTIONS AND FEE ARRANGEMENTS.</p>	<p>This report was made at the request of and for the use only of the purchaser of said report. Any use of or dissemination of information contained herein or reference to Calcoast Labs Inc. without prior written consent of Calcoast Labs Inc. is strictly prohibited.</p>
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CALCOAST ANALYTICAL

Materials Chemistry

Certified by
California Department of Health Services
City of Los Angeles, Dept. of Building & Safety



July 8, 1998

Artesian Environmental
229 Tewksburg Ave.
Point Richmond, CA 94801

E-MAILED -
MAILED - 7/8
INITIALS: ag

Attn: Mr. David Dell'Osso

Ref: Lab File No. 0707-10A/L-98a

1. SAMPLE(S):

One (1) sample of water contained in three (3) VOA vials labeled WS1 A, WS1 B and WS1 C.

Project	Project No.	Collected	Received
Vila-Albany School	378-001-01	July 7, 1998	July 7, 1998

2. ANALYSIS PERFORMED:

- A. Total Petroleum Hydrocarbons - gasoline (TPH-g) by Gas Chromatography (GC).
- B. Total Petroleum Hydrocarbons - diesel (TPH-d) by GC.
- C. Benzene, Toluene, Ethylbenzene and Xylenes (BTEX) by GC.

3. METHODS / PROCEDURES USED FOR ANALYSIS:

- A. EPA Method 8015; SW-846.
- B. EPA Method 8015; SW-846
- C. EPA Method 8020; SW-846

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4. RESULTS:

A. TPH - gasoline

Sample	TPH-gasoline ($\mu\text{g/l}$)
WS1 Comp	<5.0 (ND)

Method Blank / Detection Limit = <5.0 $\mu\text{g/l}$ (none detected)

Mean Spike Recovery = 107%

B. TPH-diesel

Sample	TPH-diesel ($\mu\text{g/l}$)
WS1 Comp	90

Method Blank / Detection Limit = <5.0 $\mu\text{g/l}$ (none detected)

Mean Spike Recovery = 106%

C. BTEX

Sample	Concentration ($\mu\text{g/l}$)			
	Benzene	Toluene	Ethylbenzene	Xylene
WS1 Comp	<0.5(ND)	<0.5(ND)	<0.5(ND)	<0.5(ND)
Method Blank / Detection Limit	<0.5(ND)	<0.5(ND)	<0.5(ND)	<0.5(ND)
Mean Spike Recovery	109%	106%	90%	110%



Ronald W. Shrewsbury
Analytical Chemist
RWS:as

ALL SAMPLES SUBMITTED FOR TESTING WILL BE HELD 30 DAYS FROM REPORT DATE AT WHICH TIME THEY WILL BE RETURNED TO CLIENT OR DESTROYED. CLIENT WILL BE RESPONSIBLE FOR ALL SHIPPING, HANDLING, AND DISPOSAL CHARGES. SAMPLES WILL BE STORED UPON WRITTEN INSTRUCTIONS AND FEE ARRANGEMENTS.

This report was made at the request of and for the use only of the purchaser of said report.
Any use of or dissemination of information contained herein or reference to Calcoast Labs, Inc. without prior written consent of Calcoast Labs, Inc. is strictly prohibited.



Artesian Environmental
229 Tewksbury Ave.
Point Richmond, CA 94801

Chain of Custody Request for Analysis

Laboratory Cal Coast Date 7/7/98
Contact: RW Page 1
Phone: (510) 652-3085 Of 2

PROJECT INFORMATION

Project Manager: David Dell'Osio Project Name: Ville - Albany Schools
For Results to: D. Dell'Osio (510) 222-2427 Project #: 3752-001-01
Also to: AI P.O.# _____
Send Report to: David Dell'Osio
Sample Team (print): David Dell'Osio
(signatures): DA Dell'Osio
Turn Around Time: 10 Day 5 Day 48 Hr. 24 Hr. Other _____

ANALYSES

CONTAINERS

Sample ID	Lab ID	Date	Time	Matrix	Preserv.	TPM - Gasoline (EPA 5030, 8015)	TPH - Diesel (EPA 3510/3550, 8015)	TEPH - Kerosene, Diesel, Motor Oil (EPA 3510/3550, 8015)	Purgeable Aromatics BTEX (EPA 602, 8020)	Purgeable Halocarbons (EPA 601, 8010)	Volatile Organics (EPA 624, 8240, 8242)	Semivolatile Organics (EPA 825/827, 8270, 825)	Total Oil & Grease (EPA 5520, 84F, E4F)	Total Recoverable Petroleum Hydrocarbons (EPA 4181)	Metals: Cd, Cr, Pb, Zn, Ni, Total or Soluble	CAM Metals (??) Total or Soluble	Lead (Pb) Total, Soluble, or Organic	Extraction TCLP or STLC (Wet)	Number of Containers	
SP1A		7/7	09:20	Composite		X	X		X											
SP1B		7/7	09:25		X	X		X												
SP2A		7/7	09:29	Composite		X	X		X											
SP2B		7/7	09:34		X	X		X												
SP3A		7/7	09:37	Composite		X	X		X											
SP3B		7/7	09:42		X	X		X												

SPECIAL INSTRUCTIONS

Composite A+B

SAMPLE RECEIPT

Total No. Containers 10
Head Space Y N
Rec'd Good Cond/Cold Y N
Conforms to Record Y N

RELINQUISHED BY (Sampler):

DA Dell'Osio 12:50
(Signature) (Time)
David Dell'Osio 7/7/98
(Printed Name) (Date)
ARTESIAN
(Company)

RELINQUISHED BY:

Richard Firth
(Signature) (Time)
RICHARD FIRTH 7/7/98
(Printed Name) (Date)
CALCOAST LABS
(Company)

RELINQUISHED BY

(Signature) (Time)
(Printed Name) (Date)
(Company)

COMMENTS:

RECEIVED BY:

Richard Firth 2PM
(Signature) (Time)
RICHARD FIRTH
(Printed Name) (Date)
CALCOAST LABS
(Company)

RECEIVED BY:

Ronald Shrewsbury
(Signature) (Time)
Ronald Shrewsbury
(Printed Name) (Date)
Cal Coast
(Company)

RECEIVED BY (Laboratory)

(Signature) (Time)
(Printed Name) (Date)
(Company)



Artesian Environmental
229 Tewksbury Ave.
Point Richmond, CA 94801

Chain of Custody Request for Analysis

Laboratory: Cal Coast
Contact: RON
Phone: (510) 652-3085

Date: 7/7/98
Page: 2
OI: 2

PROJECT INFORMATION

Project Manager: David Drilloso
Project Name: USLA - Alhambra School
For Results to: David Drilloso
Project #: 374-001-01
Also to: (510) 222-2923
P.O.# _____
Send Report to: _____
Sample Team (print): David Drilloso
Turn Around Time: 10 Day 5 Day 48 Hr. 24 Hr. Other _____
(Signature): David Drilloso

ANALYSES

CONTAINERS

Sample ID	Lab ID	Date	Time	Matrix	Preserv.	TPH - Gasoline (EPA 5030, 8015)	TPH - Diesel (EPA 3510/3550, 8015)	TPH - Kerosene, Diesel, Motor Oil (EPA 3510/3550, 8015)	Purgeable Aromatics BTEX (EPA 602, 8020)	Purgeable Halocarbons (EPA 801, 8010)	Volatile Organics (EPA 824, 8240, 8242)	Semivolatile Organics (EPA 625/627, 8270, 825)	Total Oil & Grease (EPA 5520, 844, 844F)	Total Recoverable Petroleum Hydrocarbons (EPA 418.1)	Metals: Cd, Cr, Pb, Zn, Hg Total or Soluble	CAM Metals (17) Total or Soluble	Lead (Pb) Total, Soluble, or Organic	Extraction TCLP or SLCL (Wet)	Number of Containers	
SP4 A		7/7	09:46			X	X		X											
SP4 B		7/7	09:50			X	X		X											
SP5 A		7/7	09:57			X	X		X											
SP5 B		7/7	09:58			X	X		X											
WS1A		7/7	12:50			X	X		X											
WS1B		↓	↓			↓	↓		↓											
WS1B		↓	↓			↓	↓		↓											

SPECIAL INSTRUCTIONS:

Composite A & B
Samples
Water samples WS1

SAMPLE RECEIPT

Total No. Containers _____
Head Space Y N
Rec'd Good Cond/Cold Y N
Conforms to Record Y N

RELINQUISHED BY (Sampler):
David Drilloso 7/7/98 13:50
Richard Firth 7/7/98
CALCOAST LABS
(Company)

RECEIVED BY:
Richard Firth 7-7-98
CALCOAST LABS
(Company) 2PM

RELINQUISHED BY:
Richard Firth 2:15
Richard Firth
CALCOAST LABS
(Company) 7-7-98

RECEIVED BY (Laboratory):
Richard Firth 7/7/98 2:15
CALCOAST
(Company)

RELINQUISHED BY:
(Signature) _____ (Time) _____
(Printed Name) _____ (Date) _____
(Company) _____

RECEIVED BY (Laboratory):
(Signature) _____ (Time) _____
(Printed Name) _____ (Date) _____
(Company) _____

COMMENTS:

NON - HAZARDOUS WATER TRANSPORT FORM

Number 72098 B

GENERATOR INFORMATION

CUSTOMER INFORMATION

Name: Clearwater Environmental
 Address: Spokane & Brighton St
 City, State, Zip: Albany, CA Phone #: 510-797-8511
P.O. Box 7420 Fremont

DESCRIPTION OF WATER:
 NON-HAZARDOUS WASTE WATER, MONITORING WELL PURGE WATER AND/OR AUGER RINSATE, TANK RINSATE.
 THIS WATER MAY CONTAIN DISSOLVED HYDROCARBONS. I CERTIFY THAT THE BELOW NAMED MATERIAL IS A
 LIQUID EXEMPT FROM RCRA PER 40 CFR 261.4 (b)(10) AND DOES NOT MEET THE CRITERIA OF HAZARDOUS WASTE AS
 DESCRIBED IN 22 CCR ARTICLE 11 OR ANY OTHER APPLICABLE STATE LAW, HAS BEEN PROPERLY DESCRIBED,
 CLASSIFIED AND PACKAGED AND IS IN PROPER CONDITION FOR TRANSPORTATION ACCORDING TO APPLICABLE REGULATIONS.

David Dell'Osso
 Generator/Authorised Agent

[Signature] 20 July 98
 Signature & Date

SITE INFORMATION

STA #	JOB #	TANK #	ADDRESS	USG
1				
2				
3				
4				

TOTAL GALLONS: 200

TRANSPORTER INFORMATION:

Name: Clearwater Environmental
 Address: P.O. Box 7420
 City, State, Zip: Fremont, CA 94537 Phone #: 510-797-8511

GROSS	
TARE	
NET	
TOTAL GALLONS	<u>200</u>

Truck ID #: 110-111 Driver: Chris Ritzer 7-20-98
 (Typed or printed full name & signature) (Date)

DISPOSAL FACILITY INFORMATION:

Name: Seaport Environmental
 Address: 675 Seaport Boulevard
 City, State, Zip: Redwood City, Ca 94063 Phone #: (415) 364 1024

Time Out:	
Time In:	
Time Spent:	

Approval #: 801197 Received by: Juan Arevalo (Date)
 (Typed or printed full name & signature)

NON - HAZARDOUS WATER TRANSPORT FORM

Number 72098A

GENERATOR INFORMATION

CUSTOMER INFORMATION

Name: Albany Unified School Dist.

Clearwater Environmental

Address: Spokane & Brighton St.

PO Box 7420 Fremont

City, State, Zip: Albany, CA

Phone #: 510-839-0902 510-797-8511

DESCRIPTION OF WATER:

NON-HAZARDOUS WASTE WATER, MONITORING WELL PURGE WATER AND/OR AUGER RINSATE, TANK RINSATE.

THIS WATER MAY CONTAIN DISSOLVED HYDROCARBONS. I CERTIFY THAT THE BELOW NAMED MATERIAL IS A LIQUID EXEMPT FROM RCRA PER 40 CFR 261.4 (b)(10) AND DOES NOT MEET THE CRITERIA OF HAZARDOUS WASTE AS

DESCRIBED IN 22 CCR ARTICLE 11 OR ANY OTHER APPLICABLE STATE LAW, HAS BEEN PROPERLY DESCRIBED,

CLASSIFIED AND PACKAGED AND IS IN PROPER CONDITION FOR TRANSPORTATION ACCORDING TO APPLICABLE REGULATIONS.

Tom Fortner (Artesian)
Generator/Authorized Agent

[Signature] 7/20/98
Signature & Date

SITE INFORMATION

	STA #	JOB #	TANK #	ADDRESS	USG
1					
2					
3					
4					

TOTAL GALLONS: 4900

TRANSPORTER INFORMATION:

Name: Clearwater Environmental

Address: PO Box 7420

City, State, Zip: Fremont, CA 94537

Phone #: 510-797-8511

GROSS	
TARE	
NET	
TOTAL GALLONS	<u>4900</u>

Truck ID #: 110-111

Driver: Steven R. Stone Steven R. Stone 7-20-98
(Typed or printed full name & signature) (Date)

DISPOSAL FACILITY INFORMATION:

Name: Seaport Environmental
Address: 675 Seaport Boulevard
City, State, Zip: Redwood City, Ca 94063

Phone #: (415) 364 1024

Time Out:	
Time In:	
Time Spent:	

Approval #: 801197

Received by: [Signature] 7-20-98
(Typed or printed full name & signature) (Date)

M 10 96

ALTAMONT LANDFILL WASTE ACCEPTANCE FORM

CUSTOMER NAME: ARTESIAN ENVIRONMENTAL

CUSTOMER # 1841

GENERATOR: ALBANY UNIFIED SCHOOL DISTRICT

MATERIAL DESCRIPTION: CLASS II COVER

PROFILE# 52019400

WASTE SOURCE: (County / City Location) - ALAMEDA/ALBANY

COLOR: YELLOW

The Information listed above is necessary for acceptance of special waste at the Altamont Landfill.

- A copy of this form must be presented with each load to the Altamont Landfill scale house collector.
- Altamont Landfill waste tracking use and is not intended to serve as a customer shipping document.
- Drivers will receive a weight ticket for confirmation of disposal.
- An alternative shipping record may be used in lieu of this form if it includes the above information.

If shipping form is a multiple part form, please notify landfill of which copies to return with the driver, if not otherwise noted on the form.

FOR ALTAMONT LANDFILL COLLECTOR USE ONLY:

FILL IN TAG# ASSOCIATED WITH LOAD (USE OUTBOUND# FOR UNTARED LOADS)

SCALE HOUSE TAG # - _____

DATE _____

TRUCK # _____