rcvd 12-10-93
ACCo JE

December 8, 1993

Ms. Jennifer Eberle
Alameda County Health Agency
Division of Hazardous Materials
Department of Environmental Health
80 Swan Way, Room 350
Oakland, CA 94621

RE: Attached Response to your November 22, 1093 letter

Dear Ms. Eberle:

Attached please find the response to the above letter prepared by my consultant, Dennis Bates Associates, Inc. I am submitting this to you.

Mr. Bates informs me that DBA will plan to conduct the quarterly monitoring, drum sampling and former pump island sampling on Tuesday December 14, 1993 at the 7th Street and Harrison Street Site. This is to notify you of that planned field work. Work is scheduled to begin around 8:30 AM.

Please contact me or Dennis Bates if there are any questions.

Sincerely yours,

Bo Gin
Oakland Auto Parts

cc. Dennis Bates, DBA, Inc.

Dennis Bates
associates
INCORPORATED

7 December 1993

Ms Jennifer Eberle
Alameda County Health Agency
Division of Hazardous Materials
Department of Environmental Health
80 Swan Way, Room 350
Oakland, CA 94621

RE: Oakland Auto Parts, 706 Harrison Street, Oakland, CA

Dear Ms Eberle:

In response to your comments in your 22 November 1993 letter to Mr. Gin, Dennis Bates Associates Inc. (DBA) offers the following comments.

1) Plate 3 will be redrafted to include the former UST locations as well as the locations of the 2/10/93 soil samples in relation to the MW's. Redrafted Plate 3 will be forwarded as soon as it is completed.

2) Table 1A "Analytical Results for Soil" and amended page 5 is attached to this letter.

3) Plate 2A will be redrafted to show soil sample locations from the 2/20/93 sampling event. Redrafted Plate will be forwarded as soon as it is completed.

4) There are two drums containing cuttings from the installation of VW-1 and VW-2 and one drum containing wash water from the well installation decontamination. Additionally there are three drums containing development and purge water from the three groundwater monitoring wells.

In regards to the drill cuttings placed on the existing soil stockpile, the only* hydrocarbons detected during the well installation were in MW-2 at 10 and 15 feet below grade. At 10 feet below grade TPHg was not detected, Benzene, Toluene, Ethyl Benzene and Xylene was found at 0.059 ppm, 0.036 ppm, 0.0061 ppm and 0.031 ppm respectively. At 15 feet below grade TPHg was found at 48 ppm and Benzene, Toluene, Ethyl Benzene and Xylenes at 0.56 ppm, 2.8 ppm, 1.5 ppm and 8.8 ppm respectively. Given the low amounts of hydrocarbons detected, these soils will be handled together with the remaining stockpile once a final decision is made as to their fate.

* (VW-1 + 2 had HC's)

is considered clean.

Environmental Consulting ■ Hazardous Materials Management
494 Alvarado St. Suite B ■ Monterey, CA 93940 ■ 408 646 0668 ■ FAX 408 646 8036
2011 Feliz Road ■ Novato, CA 94945 ■ 415 892 4131 ■ FAX 415 892 1912

separately? not

5) The waste oil stockpile was relocated preparatory to the over-excavation and flattened after the construction activities were completed. The stockpile was placed on, and covered with, 10 mil black plastic sheeting. All samples were taken, preserved, labeled, transported, under chain-of-custody procedures, and analyzed in accordance with DBA Standard Operating Policies.

not

6) The waste oil stockpile was relocated preparatory to the over-excavation and flattened after the construction activities were completed. The stockpile was placed on, and covered with, 10 mil black plastic sheeting. All samples were taken, preserved, labeled, transported, under chain-of-custody procedures, and analyzed in accordance with DBA Standard Operating Policies.

7) The location of monitoring well MW-1 was adjusted on the day of installation to avoid placing it through the previous UST site, to locate it in close proximity to the former pump island and to reflect a more downgradient direction from the known hydrocarbon impaction in the soil adjacent to Harrison Street. The location of monitoring well MW-2 was adjusted on the day of installation to avoid placing it through the previous UST site and to reflect a more downgradient direction from the UST site. Groundwater gradients were obtained from Kaprelian Engineering, Inc for the Unocal Service Station # 0752 at the corner of 8th and Harrison (800 Harrison Street, Oakland).

A) The former pump island along seventh street will be evaluated during the quarterly groundwater monitoring scheduled for December of 1993. **The location of the pump island will be determined, from knowledgeable persons associated with previous** operations, and a hand auger will be used to obtain a soil sample from five feet below grade. **This sample will be analyzed for Total Lead, TPHg and BTEX.**

the guy from Shell next door is knowledgeable to p. island location? to the nearest inch? foot? or mile?

B) The well survey, groundwater elevations and gradients will be submitted with the report of the December, 1993 groundwater monitoring.

C) Revised well logs and construction details are attached to this letter.

D) The VEFT has not been performed as of this date. The results of this test will be forwarded as soon as the test is funded by the client.

You will be notified in advance of all field work as requested.

Sincerely,

Dennis Bates Associates, Inc.

Dennis R. Bates, President

Encl: Amended page 5
Well Logs and Construction Details

Table 1

Analytical Results for Composite Soils

Total Recoverable Petroleum Hydrocarbons (TRPH)
Total Lead (Pb)
TPH as Gasoline (TPHg)
Benzene, Toluene, Ethyl Benzene, Xylenes (BTEX)

Date Sampled: 17 June 1993
All Results Reported in PPM (mg/kg)

Sample	TRPH	Pb	TPHg	B	T	EB	X
SPA	ND	8.9	2.4	ND	ND	0.0072	0.11
SPB	ND	18	3.4	0.0078	0.0074	0.044	0.18

ND = Not Detected at the method reporting limit

Table 1A

Analytical Results Soil

TPH as Gasoline (TPHg)
Benzene, Toluene, Ethyl Benzene, Xylenes (BTEX)

Date Sampled: 10 February 1993
All Results Reported in PPB (ug/kg) why? It's soil

Sample	TPHg	B	T	EB	X
16 Foot	4,300,000	66,000	320,000	130,000	730,000
SW 10 Foot	ND	ND	ND	ND	ND
6K Tank	93	ND	ND	ND	ND
WO Tank	ND	ND	ND	ND	ND

bottom

did not witness?

ND = Not Detected at the method reporting limit

5.6.2 BORING/WELL INSTALLATION

During the installation of the three groundwater monitoring wells and the two vapor extraction wells soil samples were collected at five-foot intervals unless otherwise described and analyzed for TPHg/BTEX and Total Lead. For soil samples collected during the installation of MW-3 an additional analysis for TRPH was done on each sample.

The results from these analyses can be found in Table 2, page 6. Copies of the laboratory results and chain-of-custody documents can be found in Appendix D.

DENNIS BATES ASSOCIATES, INC.
MONITORING WELL/SOIL BORING LOG
[WELL CONSTRUCTION DETAILS]

PROJECT NAME: OAKLAND AUTO PARTS, 706 HARRISON STREET, OAKLAND
DBA PROJECT: ENV1514N
BORING #: 1/ WELL ID: MW 1

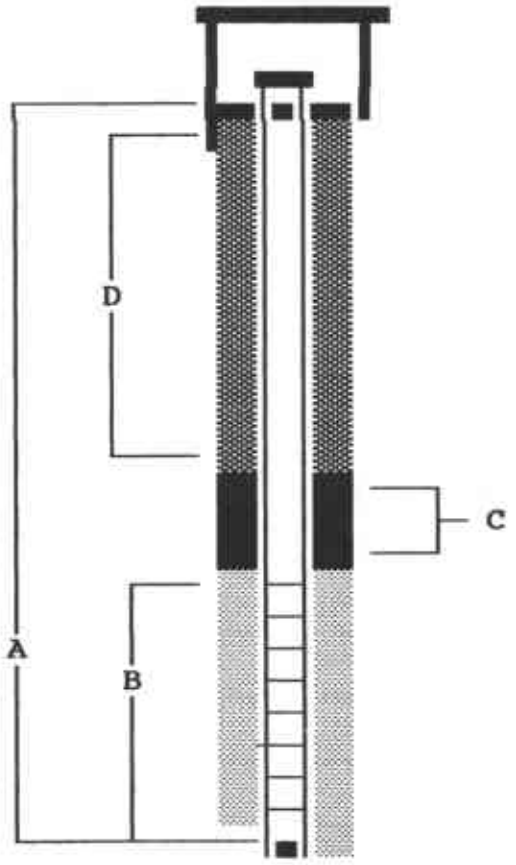
LOGGED BY: GLEN WHITE REVIEWED BY: WALTER HOWE, R.G.

DEPTH	SAMPLE	BLOWS	USCS CODE	DESCRIPTION	WELL CONST
-0-					
-2-					
-4-		6			
	MW1/5	13	SM	SAND, SILTY, SLIGHTLY CLAYEY, GOLDISH	
-6-		21		BROWN, MOIST, FIRM, NO ODOR	
-8-					
		8			
-10-	MW1/10	10	SC	SAND, CLAYEY, SILTY, BLUE-GRAY, MOIST	
		11		FIRM, HEAVY 'OLD' HYDROCARBON ODOR	
-12-					
-14-		15			
	MW1/15	25	SM	SAND, SILTY, OLIVE GREEN, MOIST, FIRM	
-16-		27		HEAVY HYDROCARBON ODOR	
-18-					
		15			
-20-	MW1/20	24	SM	SAND, SILTY, SLIGHTLY CLAYEY, OLIVE	
		32		GREEN, MOIST, FIRM, SLIGHT ODOR	
-22-	.			SATURATED AT 22 FEET (+/-) what?	
-24-					
			SM	SAND, SILTY - DARK BROWN - NO ODOR	
-26-					
-28				EOB 28 FEET	
-30-					
-32-					
-34-					
-36-					
-38-				NO ▽	
-40-					

DBA PROJECT: 1514N

BORING/WELL ID: 1/MW1

PROJECT NAME: OAKLAND AUTO PARTS
ADDRESS: 706 HARRISON STREET
OAKLAND, CA
COUNTY: ALAMEDA
WELL PERMIT NO.: ZONE 7 - 93384



EXPLORATORY BORING

	Total Depth	: 28 FEET
	Diameter	: 8 INCHES
	Drilling Method: HOLLOW STEM AUGER	

WELL CONSTRUCTION

A	Casing Length	: 15 FEET
	Material	: PVC
	Diameter	: 2 INCH
	Depth to top perforations	: 18 FEET
	Perforated Length	: 10 FEET
	Perforated Interval: 28 to 18 FEET	
	Perforation Type : FACTORY SLOTTED	
	Perforation Size	: .020
B	Sand Pack	: 12 FEET
	Pack Material : #2/12 LONESTAR	
C	Seal	: 1 FOOT
	Seal Material: BENTONITE PELLETS	
D	Backfill	: 14 FEET
	Backfill Material: NEAT CEMENT	

* WELL CAPPED ON BOTTOM WITH SCREW CAP
* 9 INCH HEXBOLT, WATERPROOF BOX PLACED AS WELL HEAD PROTECTION IN ONE FOOT +/- ON CONMIX CEMENT.
* TOP OF CASING FITTED WITH EXPANDABLE WELL PLUG WITH LOCK.

DENNIS BATES ASSOCIATES, INC.

VENT WELL CONSTRUCTION DETAIL

[not to scale]

DENNIS BATES ASSOCIATES, INC.
MONITORING WELL/SOIL BORING LOG
[WELL CONSTRUCTION DETAILS]

PROJECT NAME: OAKLAND AUTO PARTS, 706 HARRISON STREET, OAKLAND
DBA PROJECT: ENV1514N
BORING #: 4/ **WELL ID:** MW 2

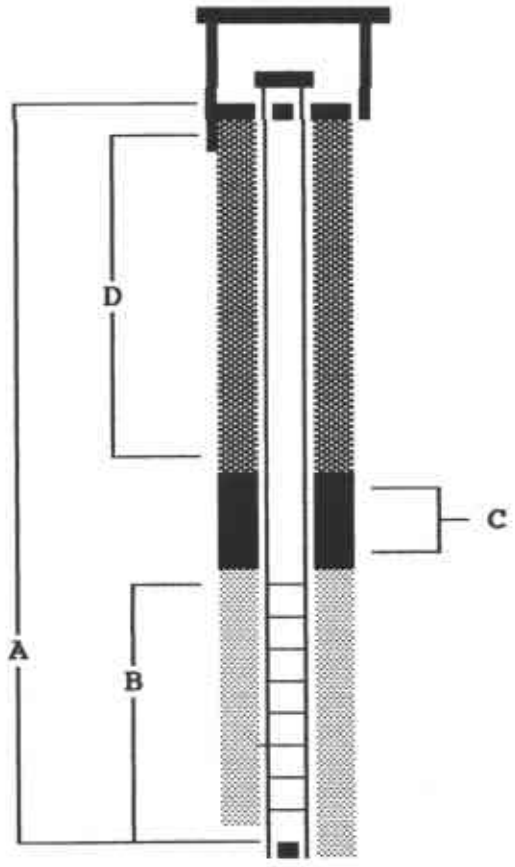
LOGGED BY: GLEN WHITE REVIEWED BY: WALTER HOWE, R.G.

DEPTH	SAMPLE	BLOWS	USCS CODE	DESCRIPTION	WELL CONST
-0-					
-2-					
-4-		9			
	MW2/5	12	SM	SAND, SILTY, SLIGHTLY CLAYEY, GOLDISH	
-6-		15		BROWN, MOIST, FIRM, NO ODOR	
-8-					
		11			
-10-	MW2/10	12	SM	SAND, SILTY, GOLDISH BROWN, MOIST,	
		12		FIRM, NO ODOR	
-12-					
-14-		11			
	MW2/15	14	SM	SAND, SILTY, GOLDISH BROWN, MOIST,	
-16-		23		FIRM, NO ODOR	
-18-	▽				
		9		SATURATED AT 19 FEET (+/-)	
-20-		10	SM	SAND, SILTY, BROWN, SOFT, WET	
		12		MODERATE GASOLINE ODOR	
-22-				NO SAMPLE COLLECTED, BELOW WATER	
-24-		10			
		22	SM	SAND, SILTY, BROWN, SOFT, WET	
-26-		19		SOME SHEEN ON SAMPLER, SLIGHT ODOR IN	
				SOIL	
-28-				EOB 28 FEET	
-30-					
-32-					
-34-					
-36-					
-38-					
-40-					

DBA PROJECT: 1514N

BORING/WELL ID:.4/[redacted]

PROJECT NAME: OAKLAND AUTO PARTS
ADDRESS: 706 HARRISON STREET
OAKLAND, CA
COUNTY: ALAMEDA
WELL PERMIT NO.: ZONE 7 - 93384



EXPLORATORY BORING

Total Depth : 28 FEET
Diameter : 8 INCHES
Drilling Method: HOLLOW STEM AUGER

WELL CONSTRUCTION

A Casing Length : 15 FEET
Material : PVC
Diameter : 2 INCH
Depth to top perforations : 18 FEET
Perforated Length : 10 FEET
Perforated Interval: 28 to 18 FEET
Perforation Type : FACTORY SLOTTED
Perforation Size : .020
B Sand Pack : 12 FEET
Pack Material : #2/12 LONESTAR
C Seal : 1 FOOT
Seal Material: BENTONITE PELLETS
D Backfill : 14 FEET
Backfill Material: NEAT CEMENT

* WELL CAPPED ON BOTTOM WITH SCREW CAP
* 9 INCH HEXBOLT, WATERPROOF BOX PLACED AS WELL HEAD PROTECTION IN ONE FOOT +/- ON CONMIX CEMENT.
* TOP OF CASING FITTED WITH EXPANDABLE WELL PLUG WITH LOCK.

DENNIS BATES ASSOCIATES, INC.

VENT WELL CONSTRUCTION DETAIL

[not to scale]

DENNIS BATES ASSOCIATES, INC.
MONITORING WELL/SOIL BORING LOG
[WELL CONSTRUCTION DETAILS]

PROJECT NAME: OAKLAND AUTO PARTS, 706 HARRISON STREET, OAKLAND
DBA PROJECT: ENV1514N
BORING #: 5/ **WELL ID:** MW-3

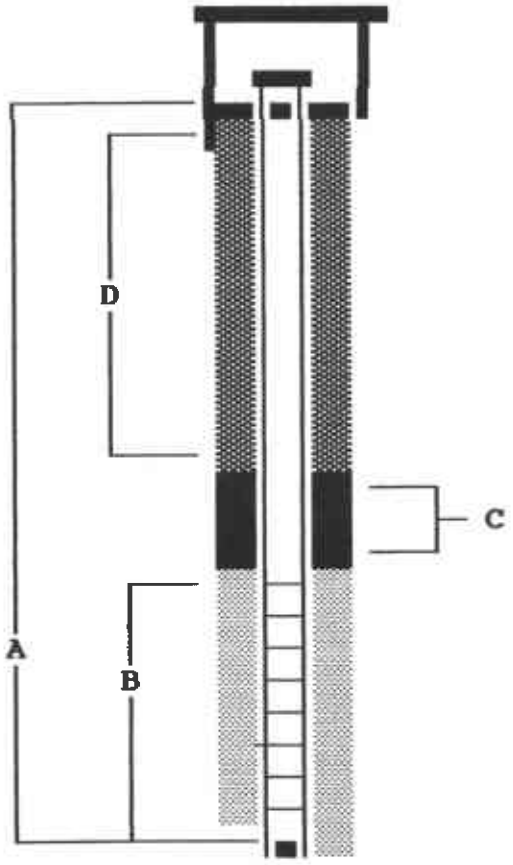
LOGGED BY: GLEN WHITE REVIEWED BY: WALTER HOWE, R.G.

DEPTH	SAMPLE	BLOWS	USCS CODE	DESCRIPTION	WELL CONST
-0-					
-2-					
-4-		7			
	MW3/5	16	SM	SAND, SILTY, GOLDISH BROWN, MOIST,	
-6-		20		FIRM, NO ODOR	
-8-					
		7			
-10-	MW3/10	11	SM	SAND, SILTY, GOLDISH BROWN, MOIST,	
		14		HARD, NO ODOR	
-12-					
-14-		24			
	MW3/15	30	SM	SAND, SILTY, GOLDISH BROWN, MOIST,	
-16-		44		HARD, NO ODOR	
-18-					
		7			
-20-	MW3/20	16	SM	SAND, SILTY, BROWN, FIRM, MOIST, NO ODOR	
	.	23		[redacted] AT 21 FEET (+), +/- a mile	
-22-				NO SAMPLE COLLECTED, BELOW WATER	
-24-		14			
		22	SM	SAND, SILTY, BROWN WITH SOME RUST	
-26-		44		SOFT, WET, NO ODOR	
				SOIL	
-28-				EOB 28 FEET	
-30-					
-32-					
-34-					
-36-					
-38-					
-40-					

water level?

DBA PROJECT: 1514N
PROJECT NAME: OAKLAND AUTO PARTS
ADDRESS: 706 HARRISON STREET
OAKLAND, CA
COUNTY: ALAMEDA
WELL PERMIT NO.: ZONE 7 - 93384

BORING/WELL ID: 5/MW-3



EXPLORATORY BORING

Total Depth : 28 FEET
Diameter : 8 INCHES
Drilling Method: HOLLOW STEM AUGER

WELL CONSTRUCTION

A Casing Length : 15 FEET
Material : PVC
Diameter : 2 INCH
Depth to top perforations : 18 FEET
Perforated Length : 10 FEET
Perforated Interval: 28 to 18 FEET
Perforation Type : FACTORY SLOTTED
Perforation Size : .020
B Sand Pack : 12 FEET
Pack Material : #2/12 LONESTAR
C Seal : 1 FOOT
Seal Material: BENTONITE PELLETS
D Backfill : 14 FEET
Backfill Material: NEAT CEMENT

* WELL CAPPED ON BOTTOM WITH SCREW CAP
* 9 INCH HEXBOLT, WATERPROOF BOX PLACED AS WELL HEAD PROTECTION IN ONE FOOT +/- ON CONMIX CEMENT.
* TOP OF CASING FITTED WITH EXPANDABLE WELL PLUG WITH LOCK.

DENNIS BATES ASSOCIATES, INC.

VENT WELL CONSTRUCTION DETAIL

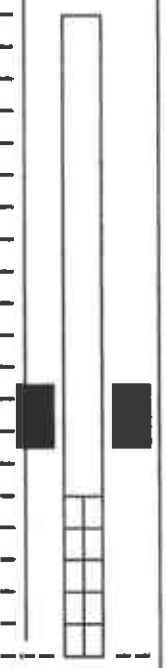
[not to scale]

DENNIS BATES ASSOCIATES, INC.
MONITORING WELL/SOIL BORING LOG
[WELL CONSTRUCTION DETAILS]

PROJECT NAME: OAKLAND AUTO PARTS, 706 HARRISON STREET, OAKLAND
DBA PROJECT: ENV1514N
BORING #: 2/ **WELL ID:** VW 1

LOGGED BY: GLEN WHITE REVIEWED BY: WALTER HOWE, R.G.

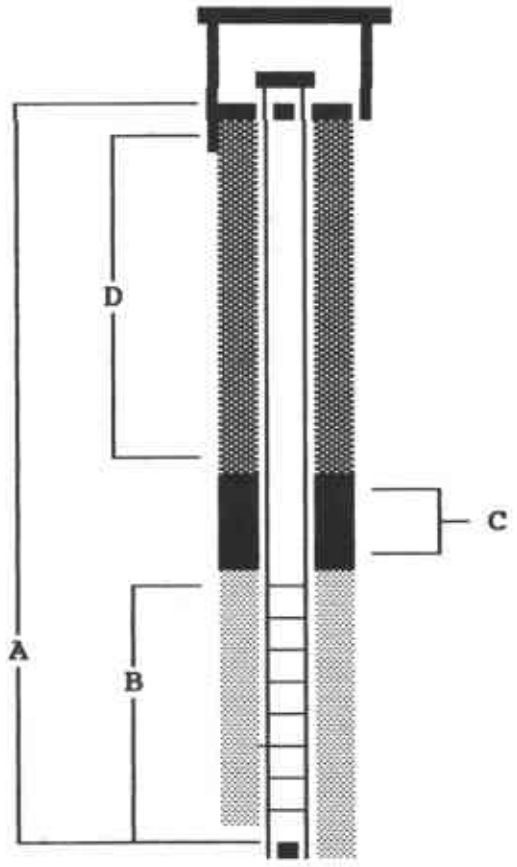
DEPTH	SAMPLE	BLOWS	USCS CODE	DESCRIPTION	WELL CONST
-0-				FILL MATERIAL TO 16 FEET	
-2-					
-4-					
-6-					
-8-					
-10-				ODOR IN CUTTINGS, FILL MATERIAL	
-12-					
-14-					
-16-		12			
-18-	VW2/17	16 20	SM	SAND, SILTY, OLIVE GREEN-GRAY, SOFT, MOIST, STRONG GASOLINE ODOR	
-20-				EOB 20 FEET	
-22-					
-24-					
-26-					
-28-					
-30-					
-32-					
-34-					
-36-					
-38-					
-40-					



DBA PROJECT: 1514N

BORING/WELL ID: 2/VW1

PROJECT NAME: OAKLAND AUTO PARTS
ADDRESS: 706 HARRISON STREET
OAKLAND, CA
COUNTY: ALAMEDA
WELL PERMIT NO.: ZONE 7 - 93384



EXPLORATORY BORING

	Total Depth	: 20 FEET
	Diameter	: 8 INCHES
	Drilling Method: HOLLOW STEM AUGER	

WELL CONSTRUCTION

A	Casing Length	: 15 FEET
	Material	: PVC
	Diameter	: 2 INCH
	Depth to top perforations	: 15 FEET
	Perforated Length	: 5 FEET
	Perforated Interval: 20 to 15 FEET	
	Perforation Type : FACTORY SLOTTED	
	Perforation Size	: .020
B	Sand Pack	: 7 Feet
	Pack Material : #2/12 LONESTAR	
C	Seal	: 1 FOOT
	Seal Material: BENTONITE PELLETS	
D	Backfill	: 14 FEET
	Backfill Material: NEAT CEMENT	

* WELL CAPPED ON BOTTOM WITH SCREW CAP
* 9 INCH HEXBOLT, WATERPROOF BOX PLACED AS WELL HEAD PROTECTION IN ONE FOOT +/- ON CONMIX CEMENT.
* TOP OF CASING FITTED WITH EXPANDABLE WELL PLUG WITH LOCK.

DENNIS BATES ASSOCIATES, INC.

VENT WELL CONSTRUCTION DETAIL

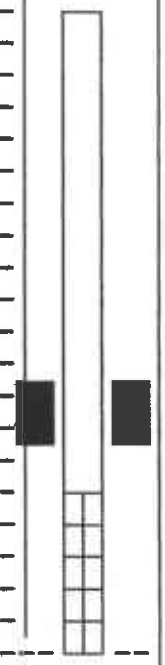
[not to scale]

DENNIS BATES ASSOCIATES, INC.
MONITORING WELL/SOIL BORING LOG
[WELL CONSTRUCTION DETAILS]

PROJECT NAME: OAKLAND AUTO PARTS, 706 HARRISON STREET, OAKLAND
DBA PROJECT: ENV1514N
BORING #: 3/ **WELL ID:** VW 2

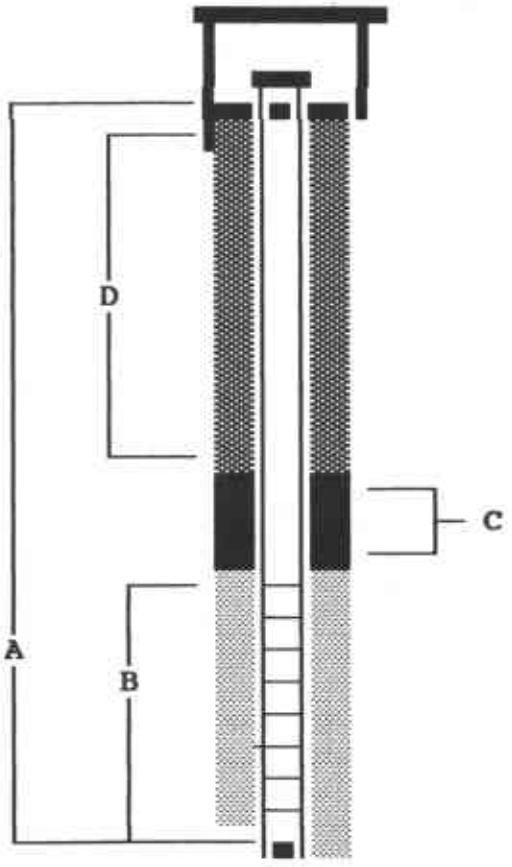
LOGGED BY: GLEN WHITE REVIEWED BY: WALTER HOWE, R.G.

DEPTH	SAMPLE	BLOWS	USCS CODE	DESCRIPTION	WELL CONST
-0-				FILL MATERIAL TO 16 FEET	
-2-					
-4-					
-6-					
-8-					
-10-				ODOR ENCOUNTERED, SLIGHT HYDROCARBON	
-12-					
-14-					
-16-		19			
	VW2/17	35	SM	SAND, SILTY, OLIVE GREEN, MOIST, SOFT	
-18-		40		STRONG GASOLINE ODOR	
-20-				EOB 20 FEET	
-22-					
-24-					
-26-					
-28-					
-30-					
-32-					
-34-					
-36-					
-38-					
-40-					



DBA PROJECT: 1514N
PROJECT NAME: OAKLAND AUTO PARTS
ADDRESS: 706 HARRISON STREET
OAKLAND, CA
COUNTY: ALAMEDA
WELL PERMIT NO.: ZONE 7 - 93384

BORING/WELL ID: 3/VW2



EXPLORATORY BORING

Total Depth : 20 FEET
Diameter : 8 INCHES
Drilling Method: HOLLOW STEM AUGER

WELL CONSTRUCTION

A Casing Length : 15 FEET
Material : PVC
Diameter : 2 INCH
Depth to top perforations : 15 FEET
Perforated Length : 5 FEET
Perforated Interval: 20 to 15 FEET
Perforation Type : FACTORY SLOTTED
Perforation Size : .020
B Sand Pack : 7 Feet
Pack Material : #2/12 LONESTAR
C Seal : 1 FOOT
Seal Material: BENTONITE PELLETS
D Backfill : 14 FEET
Backfill Material: NEAT CEMENT

* WELL CAPPED ON BOTTOM WITH SCREW CAP
* 9 INCH HEXBOLT, WATERPROOF BOX PLACED AS WELL HEAD PROTECTION IN ONE FOOT +/- ON CONMIX CEMENT.
* TOP OF CASING FITTED WITH EXPANDABLE WELL PLUG WITH LOCK.

DENNIS BATES ASSOCIATES, INC.

VENT WELL CONSTRUCTION DETAIL

[not to scale]