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February 24, 2000

- Get chromatogram of TPH d/g in Boony B.H.F.
- who is case worker for ALCAN at RWQCB - Betty Graham

REPORT
of
SOIL AND GROUNDWATER ASSESSMENT
ASE JOB NO. 3599
at
Easy Mercedes
1075 2nd Street
Albany, California

Submitted by:
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1.0 INTRODUCTION

This report presents the methods and findings of Aqua Science Engineers, Inc. (ASE)'s limited soil and groundwater assessment at Easy Mercedes located at 1075 2nd Street in Albany, California (Figure 1). The site assessment activities were initiated by Mr. William Landstra and Mr. James Breazeale, owners of Easy Mercedes, to (a) meet the requirements of the Alameda County Health Care Services Agency (ACHCSA) as outlined in their letters dated October 1, 1996, February 18, 1997 and June 12, 1998 (Appendix A), (b) address the concerns raised in the January 31, 1997 affidavit from Gale Rocks, and (c) dispose of the stockpiled soil produced during the removal of the waste oil underground storage tank (UST).

2.0 SITE HISTORY

In September 1995, one waste oil UST was removed from the site. Soil samples collected from the sidewalls contained up to 24 parts per million (ppm) total petroleum hydrocarbons as diesel (TPH-D) and 63 ppm oil and grease (O&G). No total petroleum hydrocarbons as gasoline (TPH-G) were detected in the soil samples. A water sample collected from the excavation contained 6,900 parts per billion (ppb) TPH-G, 580 ppb TPH-D, and 3,200 ppb O&G. Low concentrations of semi-volatile organic compounds (SVOCs) and metals were also detected.

An affidavit dated January 31, 1997 from Gale Rocks, a former employee of Easy Mercedes, listed several locations at the site which may potentially be environmental concerns. These areas are (a) a 30-foot by 30-foot area in back where oil was purged from engines and allegedly poured onto the ground, (b) a former open top aboveground waste oil tank which allegedly overflowed, (c) a drain outside the shop where oil and antifreeze were allegedly poured, and (d) the concrete floor inside the wooden portion of the building which had floors "slick and covered with oil."

The ACHCSA issued letters dated October 1, 1996, February 18, 1997 and June 12, 1998 requesting a soil and groundwater assessment at the site.

3.0 SCOPE OF WORK (SOW)

Based on the site history and requirements of the ACHCSA, ASE's scope of work was to:

- 1) Prepare a workplan for review and approval from the ACHCSA.

- 2) Obtain a drilling permit from the Alameda County Public Works Agency.
- 3) Drill four soil borings surrounding the former UST using a Geoprobe drill rig. Soil samples were collected for analysis.
- 4) Install temporary pre-packed well screens in the borings described in task 3 and collect groundwater samples for analysis.
- 5) Analyze one soil sample collected from each boring (4 total) at a CAL-EPA certified analytical laboratory for TPH-G by modified EPA Method 5030/8015, total petroleum hydrocarbons as diesel (TPH-D) and motor oil (TPH-MO) by modified EPA Method 3510/8015, benzene, toluene, ethylbenzene and total xylenes (collectively known as BTEX) by EPA Method 8020, and methyl tertiary butyl ether (MTBE) by EPA Method 8020. In addition, analyze the soil sample with the highest hydrocarbon concentration for polynuclear aromatic hydrocarbons (PNAs or PAHs) by EPA Method 8310.
- 6) Analyze one groundwater sample from each boring (4 total) at a CAL-EPA certified analytical laboratory for TPH-G by modified EPA Method 5030/8015, TPH-D and TPH-MO by modified EPA Method 3010/8015, BTEX by EPA Method 8020 and MTBE by EPA Method 8020. In addition, analyze the groundwater sample with the highest hydrocarbon concentrations for halogenated volatile organic compounds (HVOCs) by EPA Method 8010.
- 7) Survey the top of casing elevation of each temporary well and calculate the groundwater flow direction and gradient using depth to groundwater data.
- 8) Return to the site with a hollow stem auger drill rig and remove each casing. Each boring was backfilled with neat cement.
- 9) Drill seven additional soil borings to no greater than 4-feet below ground surface (bgs) at the site to address the concerns raised in the January 31, 1997 affidavit from Gale Rocks. Three borings were placed in the 30-foot by 30-foot area in back where oil was purged from engines and allegedly poured onto the ground, one boring was placed at the location of the former aboveground waste oil tank, one boring was placed at the location of the drain outside the shop, and two borings were placed in the wooden section of the building

near the oil storage area and near floor cracks. Soil samples were collected from the borings for analysis.

- 10) Analyze one soil sample from each boring described in task 9 (7 total) at a CAL-EPA certified analytical laboratory for TPH-G by modified EPA Method 5030/8015, TPH-D and TPH-MO by modified EPA Method 3510/8015, BTEX and MTBE by EPA Method 8020, and HVOCs by EPA Method 8010. In addition, the three (3) soil samples with the highest hydrocarbon concentrations were also to be analyzed for PNAs by EPA Method 8310 and the LUFT 5 metals by EPA Method 6010.
- 11) Dispose of the stockpiled soil generated during the waste oil UST removal at an appropriate disposal facility.
- 12) Prepare a report presenting the methods and findings of this assessment.

4.0 DRILL SOIL BORINGS AND COLLECT SAMPLES

4.1 Permits

Prior to drilling, ASE obtained a drilling permit from the Alameda County Public Works Agency (ACPWA). A copy of this permit is presented in Appendix B.

4.2 Drilling and Soil Sampling

On December 29, 1999, Vironex, Inc. of Hayward, California drilled soil borings BH-A through BH-K at the site using a Geoprobe hydraulic sampling rig (Figure 2). Borings BH-A through BH-D were drilled surrounding the former waste oil UST. Borings BH-E through BH-G were drilled in the area where oil was purged from engines and allegedly poured onto the ground. Boring BH-H was drilled in the location of the former aboveground waste oil tank. Boring BH-I was drilled in the location of the drain outside the shop, Borings BH-J and BH-K were drilled inside the wooden section of the building in the oil storage area and near floor cracks where oil from engine parts was present. The drilling was directed by ASE senior geologist Robert E. Kitay, R.G.

Undisturbed soil samples were collected continuously as drilling progressed for lithologic and hydrogeologic description and possible

chemical analysis. The samples were collected by driving a sampler lined with acetate tubes using hydraulic direct push methods. Selective soil samples were immediately trimmed, sealed with Teflon tape, plastic end caps and duct tape, labeled, sealed in plastic bags and stored on ice for transport to Chromalab, Inc. of Pleasanton, California (ELAP #1094) under chain of custody. Soil from the remaining tubes was described by the site geologist using the Unified Soil Classification System and was screened for volatile compounds using an Organic Vapor Meter (OVM). The soil was screened by emptying soil from one of the sample tubes into a plastic bag. The bag was then sealed and placed in the sun for approximately 10 minutes. After the volatile compounds were allowed to volatilize, the OVM measured the vapor in the bag through a small hole punched in the bag. OVM readings are used as a screening tool only, since the procedures are not as rigorous as those used in the laboratory. OVM readings can be found on the boring logs located in Appendix C.

4.3 Groundwater Sampling

In borings BH-A through BH-D, surrounding the former waste oil UST, and boring BH-F, which was the only boring to have any evidence of soil contamination, pre-packed well casings were lowered into the borings. The casings were then purged of a few gallons of water and groundwater samples were then collected using either a bailer or a polyethylene tubing with a ball check valve at the bottom. The groundwater samples to be analyzed for volatile compounds were contained in 40-ml volatile organic analysis (VOA) vials (pre-preserved with hydrochloric acid) and sealed without headspace. Samples to be analyzed for non-volatile compounds were contained in 1-liter amber glass containers. All of the samples were labeled, carefully packaged, cooled in an ice chest with wet and "blue" ice, sealed with custody tape, and were transported to Southland Technical Services, Inc. (STS) in Montebello, California by California Overnight Delivery Service with chain of custody documentation. The samples arrived in good condition with the custody seal intact.

4.4 Backfilling Borings and Decontamination

Following the collection of the groundwater samples, the borings were backfilled with neat cement placed with a tremie pipe. The exceptions were borings BH-A through BH-D which were to be surveyed at a later date. The temporary well casings in borings BH-A through BH-D were removed on January 3, 2000 by drilling around the well casings with a hollow-stem auger drill rig removing the sandpack and seal materials.

The remaining borings were then backfilled with neat cement placed by tremie pipe.

Drilling and sampling equipment was cleaned with a TSP solution between sampling intervals, between borings and prior to leaving the site to any prevent potential cross-contamination.

4.5 Sediments Encountered

Sediments encountered during the drilling generally consisted of sandy gravel from the ground surface to 2-feet bgs, silty gravel from 2-feet bgs to 5.5-feet bgs, and gravely sand from 5.5-feet bgs to 8-feet bgs. Groundwater was encountered at approximately 4-feet bgs. Boring logs are presented as Appendix C.

5.0 ANALYTICAL RESULTS FOR SOIL

5.1 Analyses Performed

The soil samples collected from 3.5-foot bgs in borings BH-A through BH-D, near the former waste oil UST, were analyzed for TPH-G by modified EPA Method 5030/8015, TPH-D and TPH-MO by modified EPA Method 3510/8015, and BTEX and MTBE by EPA Method 8020. ASE also intended on analyzing the soil sample with the highest hydrocarbon concentrations for polynuclear aromatic hydrocarbons (PNAs or PAHs) by EPA Method 8310; however, since only very low hydrocarbon concentrations were detected in the soil samples, the PNA analyses were not performed as discussed with and approved by the ACHCSA.

Soil samples collected from 1.5-foot bgs in borings BH-E, BH-H, and BH-K, 3.5-foot bgs in boring BH-F, 1.0-foot bgs in borings BH-G and BH-J, and 2.5-foot bgs in boring BH-I were analyzed by STS for TPH-G by modified EPA Method 5030/8015, TPH-D and TPH-MO by modified EPA Method 8015, BTEX and MTBE by EPA Method 8020, and HVOCs by EPA Method 8260B.

The soil samples collected from 1.5-foot bgs in boring BH-E, 3.5-foot bgs in boring BH-F, 1.0-foot bgs in boring BH-G, and 2.5-foot bgs in boring BH-I were also analyzed for ethylene glycol by GC/MS.

The soil samples collected from 3.5-foot bgs in boring BH-F, 1.0-foot bgs in boring BH-G and 2.5-foot bgs in boring BH-I were analyzed for cadmium, chromium, lead, nickel and zinc. These samples were selected

because they had either the highest hydrocarbon concentrations detected or visual evidence of possible contamination. The soil sample collected from 2.5-foot bgs in boring BH-I was also analyzed for PNAs by EPA Method 8270B. Because of the relatively low hydrocarbon concentrations detected in the soil samples, only one PNA analysis was performed. ASE confirmed this change in the scope of work with the ACHCSA before changing the planned analyses.

The four stockpiled soil samples were composited into one sample at the laboratory for analysis. This composited soil sample was analyzed for TPH-G by modified EPA Method 5030/8015, TPH-D and TPH-MO by modified EPA Method 3510/8015, BTEX and MTBE by EPA Method 8020, HVOCs by EPA Method 8010, cadmium, chromium, lead, nickel and zinc by EPA Method 6010, and SVOCs by EPA Method 8270.

5.2 Analytical Results for Soil

The analytical results are tabulated in Tables One, Two and Three, and the certified analytical report and chain of custody form are included in Appendix D.

The only hydrocarbons detected in the soil samples collected from borings BH-A through BH-D, surrounding the former UST, were 12 ppm TPH-D and 23 ppm TPH-MO in the soil sample collected from 3.5-foot bgs in boring BH-D. The only hydrocarbons detected in the borings drilled in the area where engines were purged of oil were 0.016 ppm total xylenes in the soil sample collected from 1.5-foot bgs in boring BH-E, and 23 ppm TPH-D and 184 ppm TPH-MO in the soil sample collected from 1.0-foot bgs in boring BH-G. No hydrocarbons were detected in the soil sample collected from boring BH-H, at the location of the former aboveground storage tank. The only hydrocarbons detected in the soil sample collected from boring BH-I, near the drain outside the building, were 17 ppm TPH-D and 234 ppm TPH-MO. The only hydrocarbons detected in the soil samples collected in the borings drilled inside the building were 10 ppm TPH-MO in the soil sample collected from 1.0-foot bgs in boring BH-J. All of these extractable range hydrocarbon results are relatively low.

No TPH-G, ethylene glycol, HVOCs or PNAs were detected in any of the soil samples analyzed. In addition, no BTEX was detected in any of these samples, other than 0.016 ppm total xylenes in the soil sample collected from 1.5-foot bgs in boring BH-E which is well below United States Environmental Protection Agency Region IX (US EPA) preliminary

remediation goals (PRGs) for residential soil. None of the metal concentrations detected exceeded US EPA PRGs for residential soil.

6.0 ANALYTICAL RESULTS FOR GROUNDWATER

6.1 Analyses Performed

The groundwater samples were analyzed by STS for TPH-G by modified EPA Method 5030/8015, TPH-D and TPH-MO by modified EPA Method 3510/8015, and BTEX and MTBE by EPA Method 8020. In addition, the groundwater samples collected from boring BH-F were also analyzed for PNAs by EPA Method 8270B, and the groundwater samples collected from borings BH-B and BH-F were also analyzed for HVOCs by EPA Method 8260B.

6.2 Analytical Results for Groundwater

The analytical results are tabulated in Tables Four and Five, and the certified analytical report and chain of custody forms are included in Appendix D.

Only relatively low concentrations of TPH-G, BTEX and MTBE were detected in groundwater samples collected from borings BH-A through BH-D, surrounding the former waste oil UST. None of the concentrations detected exceeded California Department of Health Services (DHS) maximum contaminant levels (MCLs) for drinking water. In addition, no TPH-D, TPH-MO or HVOCs were detected in any of these samples.

The groundwater sample collected from boring BH-F contained 63,700 ppb TPH-G, 12,800 ppb TPH-D, 136 ppb ethyl benzene and 274 ppb total xylenes. The laboratory stated that the TPH concentrations did not appear to be from gasoline or diesel, but rather the chromatogram patterns were more similar to kerosene or jet fuel. Neither the ethyl benzene nor the total xylene concentrations detected in this boring exceeded DHS MCLs for drinking water. No TPH-MO, benzene, toluene, MTBE, PNAs or HVOCs were detected in groundwater samples collected from this boring.

Groundwater samples collected from borings BH-A through BH-D, near the former waste oil UST, contained up to 76 ppb TPH-G, 1.2 ppb toluene, 28.2 ppb total xylenes and 3.7 ppb MTBE. None of these concentrations exceeded DHS MCLs for drinking water, and no TPH-D, TPH-MO, benzene, ethylbenzene or HVOCs were detected in these samples.

7.0 GROUNDWATER FLOW DIRECTION AND GRADIENT

On January 3, 2000, ASE surveyed the top of casing elevation of each of the four temporary casings in borings BH-A through BH-D relative to a site datum. ASE also measured the depth to groundwater in each casing using an electric water level sounder. The top of casing survey data, depth to groundwater measurements and groundwater elevations are presented in Table Six. The groundwater elevation in all four borings was exactly the same showing that the water table was flat and that groundwater was stagnant.

8.0 NEIGHBORING PROPERTY TO THE NORTH

Since neither kerosene nor jet fuel would be expected at an automotive salvage yard, ASE reviewed files for the neighboring property to the north since this boring was located near the northern property line and since that property was formerly a RCRA facility. The site to the north was the former Alcan Ingot and Powder Company, which has undergone an extensive cleanup effort. ASE contacted the California Department of Toxic Substances Control (DTSC) for information regarding the property. The DTSC stated that they recently turned the project over to the California Regional Water Quality Control Board (RWQCB) since the soil remediation on that site was complete and it was now a groundwater only case. On February 11, 2000, ASE reviewed a December 1999 report for that project. That report noted that significant mineral spirit contamination in groundwater was present along the border between the Alcan and Easy Mercedes properties. Free-floating mineral spirits were present along this property line, although the free-floating mineral spirit location was located west of boring BH-F (Appendix E). The only remediation of mineral spirit contamination in groundwater on the Alcan site was the removal of free-floating hydrocarbons using a series of trenches. The closest sampling points on the Alcan property to boring BH-F would have been either TP-8 or TP-3. These locations were both test pits dug to delineate the extent of free-floating mineral spirits on the water table. The soil and water samples collected from TP-8 contained 570 ppm and 11,000 ppb mineral spirits, respectively. The water sample collected from TP-3 contained 97,000 ppb mineral spirits. ASE contacted STS to find out whether the chromatogram pattern might resemble mineral spirits, and STS confirmed that it could be. Based on this information, it is likely that the hydrocarbons detected in the groundwater samples collected from boring BH-F on the Easy Mercedes property are related to the mineral spirit contamination on the Alcan property.

9.0 CONCLUSIONS AND RECOMMENDATIONS

Up to 12 ppm TPH-D and 23 ppm TPH-MO were detected in soil samples collected from the borings surrounding the former waste oil UST. Up to 23 ppm TPH-D and 234 ppm TPH-MO were detected in soil samples collected from borings in other portions of the site. All of these concentrations are relatively low and would not indicate concentrations that would require soil remediation. The only volatile compound detected in any of the soil samples analyzed was a very low concentration of 0.016 ppm total xylenes, well below the US EPA PRG for residential soil. None of the metal concentrations detected exceeded US EPA PRGs for residential soil. In addition, no PNAs, HVOCs, TPH-G or ethylene glycol concentrations were detected in any of these soil samples. Based on these results, there does not appear to be any significant impact to soils beneath the site which would require further characterization or remediation.

Only relatively low concentrations of TPH-G, BTEX and MTBE were detected in groundwater samples collected from borings BH-A through BH-D, surrounding the former waste oil UST. None of the concentrations detected exceeded California Department of Health Services (DHS) maximum contaminant levels (MCLs) for drinking water. In addition, no TPH-D, TPH-MO or HVOCs were detected in any of these samples. Based on this information, ASE feels that environmental issues related to the former UST have now been adequately addressed, and it is ASE's opinion that no further assessment or remediation related to the former UST should be required.

Groundwater samples collected from boring BH-F contained 63,700 ppb TPH-G, 12,800 ppb TPH-D, 136 ppb ethyl benzene, and 274 ppb total xylenes. The laboratory stated that the TPH concentrations did not appear to be from gasoline or diesel, but rather the chromatogram patterns were more similar to kerosene or jet fuel. Upon further questioning, the laboratory stated that it could also be mineral spirits. Alcan Ingot and Powders, the property immediately to the north had significant mineral spirit contamination along the Alcan/Easy Mercedes property line, including mineral spirit contamination in groundwater higher than the concentrations detected in boring BH-F. It should be noted that the water sample collected from this boring had a paint thinner type odor, and that no detectable contamination was present in the soil sample analyzed from this boring. Neither the ethyl benzene nor total xylene concentrations detected in this boring exceeded DHS MCLs for drinking water. No TPH-MO, benzene, toluene, MTBE, PNAs or HVOCs were detected in

groundwater samples collected from this boring. Based on this information, it appears possible that the elevated total petroleum hydrocarbon concentrations are related to the mineral spirit contamination on the Alcan property, and ASE does not anticipate that the ACHCSA will require any further assessment or remediation related to these hydrocarbon concentrations.

The composited soil sample collected from the soil stockpile generated from the UST removal contained 13 ppm TPH-D, 66 ppm TPH-MO, 718 ppm total oil and grease, and 1.13 ppm fluoranthene. No other SVOCs, HVOCs, BTEX or elevated metal concentrations were detected. ASE discussed whether this soil could remain on-site with the ACHCSA. During on telephone conversation on February 16, 2000, Ms. Eva Chu of the ACHCSA stated that the soil would have to be removed from the site. This soil is suitable for disposal as non-hazardous material in a Class II landfill. ASE will provide a letter documenting the off-site disposal of this soil once the soil has been removed.

10.0 REPORT LIMITATIONS

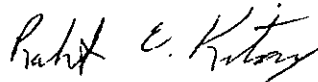
The results of this assessment represent conditions at the time of the soil and groundwater sampling, at the specific locations where the samples were collected, and for the specific parameters analyzed by the laboratory.

This report does not fully characterize the site for contamination resulting from unknown sources or for parameters not analyzed by the laboratory. All of the laboratory work cited in this report was prepared under the direction of an independent CAL-EPA certified laboratory. The independent laboratory is solely responsible for the contents and conclusions of the chemical analysis data.

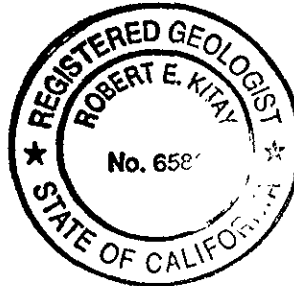
Aqua Science Engineers appreciates the opportunity provide environmental consulting services for this project. Should you have any questions or comments, please feel free to call us at (925) 820-9391.

Respectfully submitted,

AQUA SCIENCE ENGINEERS, INC.



Robert E. Kitay, R.G., R.E.A.
Senior Geologist

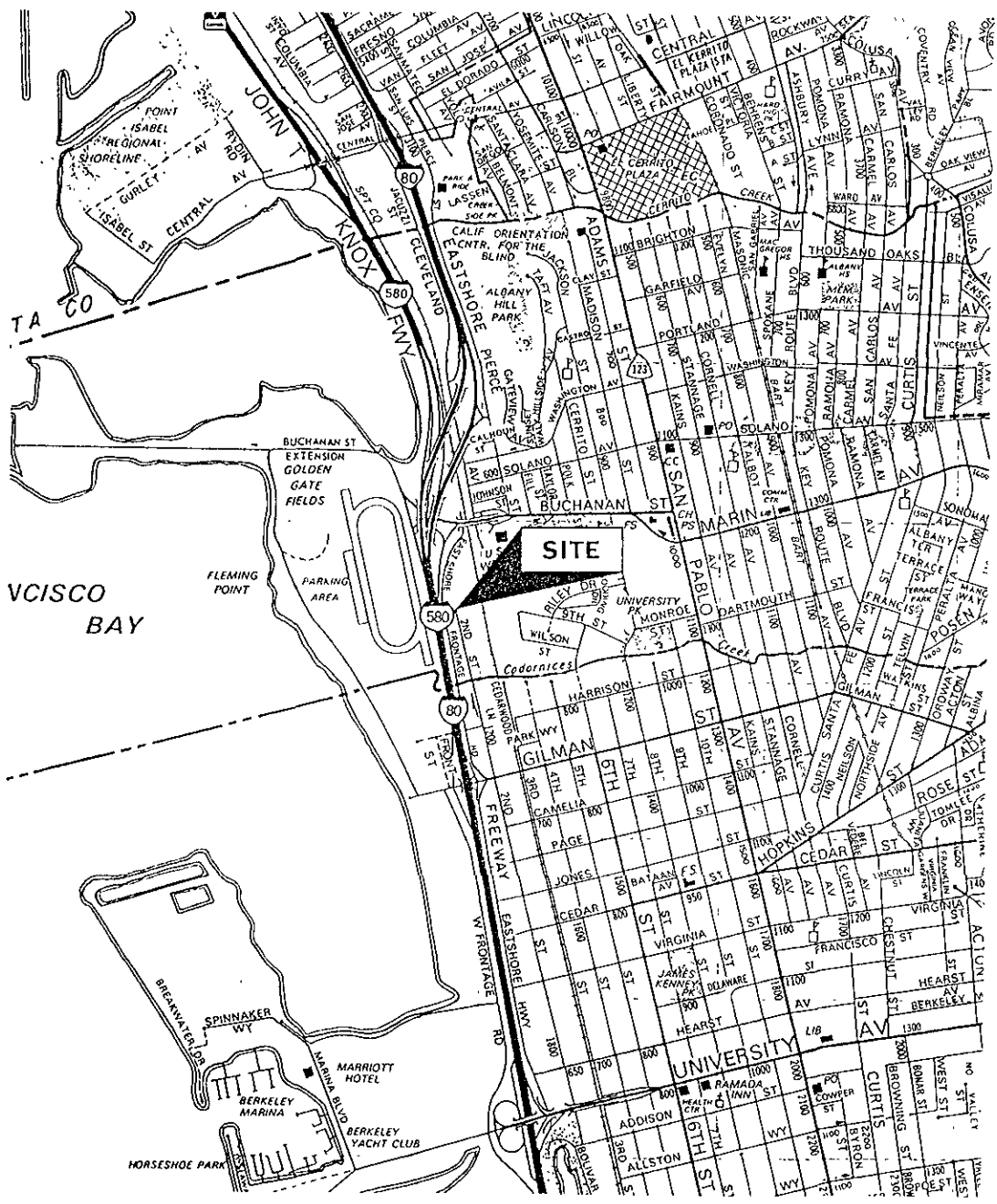


Attachments: Figures 1 and 2
Appendices A through E

FIGURES



NORTH

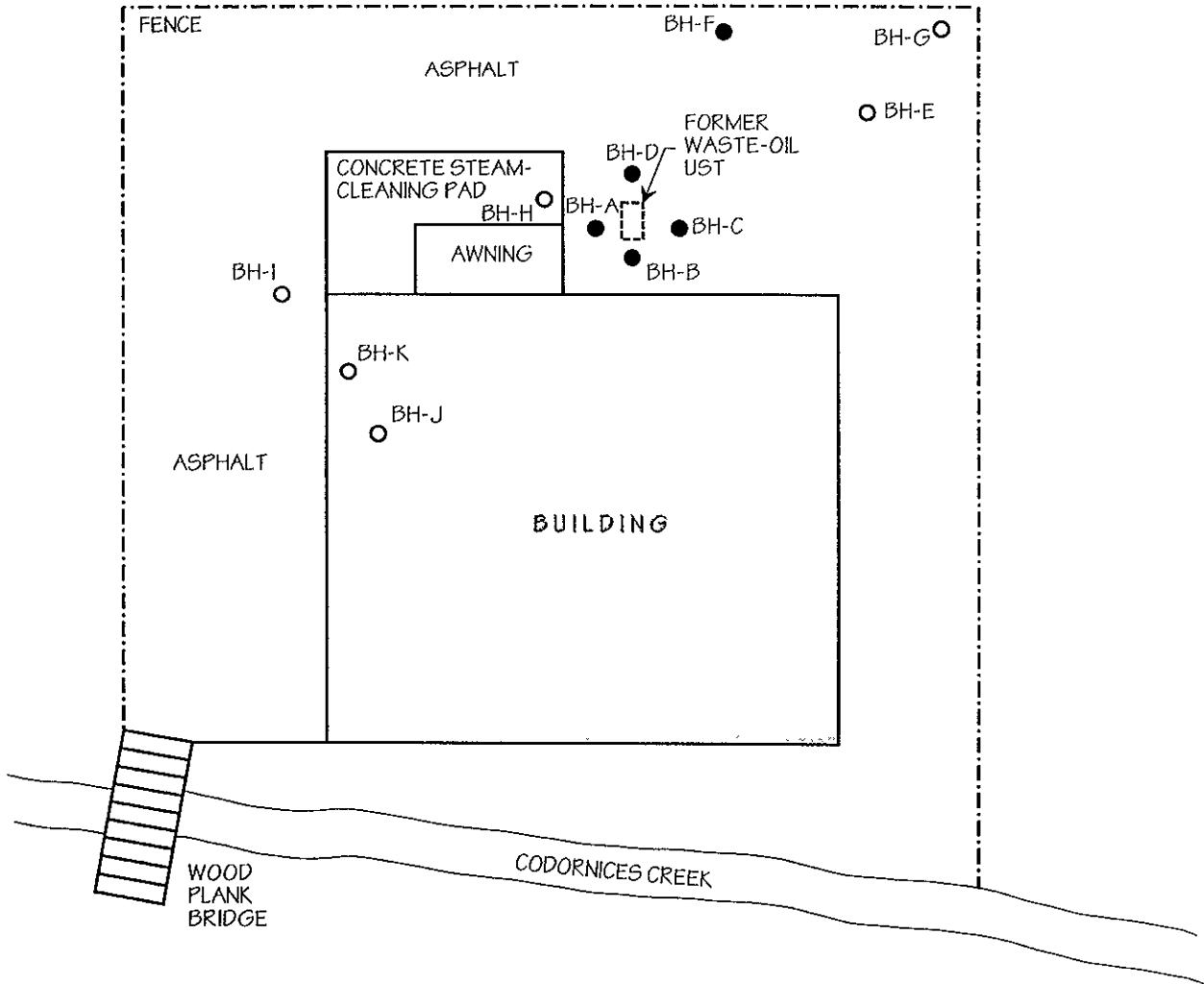


SITE LOCATION MAP

EASY MERCEDES
1075 2nd STREET
ALBANY, CALIFORNIA

AQUA SCIENCE ENGINEERS, INC.

Figure 1



LEGEND

BH-F ● SOIL BORING, SOIL AND GROUNDWATER SAMPLES COLLECTED

BH-K ○ SOIL BORING, SOIL SAMPLES COLLECTED



NORTH

SCALE
1" = 50'

SOIL BORING LOCATION MAP

EASY Mercedes
1075 2nd Street
Albany, California

AQUA SCIENCE ENGINEERS, INC.

Figure 2

TABLES

TABLE ONE
Summary of Chemical Analysis of SOIL Samples
Petroleum Hydrocarbons
All results are in parts per million

Boring	Sample Depth	TPH Gasoline	TPH Diesel	TPH Oil	Benzene	Toluene	Ethyl Benzene	Total Xylenes	MTBE
BH-A	3.5'	< 1.0	< 10	< 50	< 0.005	< 0.005	< 0.005	< 0.015	< 0.01
BH-B	3.5'	< 1.0	< 10	< 50	< 0.005	< 0.005	< 0.005	< 0.015	< 0.01
BH-C	3.5'	< 1.0	< 10	< 50	< 0.005	< 0.005	< 0.005	< 0.015	< 0.01
BH-D	3.5'	< 1.0	12	23	< 0.005	< 0.005	< 0.005	< 0.015	< 0.01
BH-E	1.5'	< 1.0	< 10	< 50	< 0.005	< 0.005	< 0.005	0.016	< 0.01
BH-F	3.5'	< 1.0	< 10	< 50	< 0.005	< 0.005	< 0.005	< 0.015	< 0.01
BH-G	1.0'	< 1.0	23	184	< 0.005	< 0.005	< 0.005	< 0.015	< 0.01
BH-H	1.5'	< 1.0	< 10	< 50	< 0.005	< 0.005	< 0.005	< 0.015	< 0.01
BH-I	2.5'	< 1.0	17	234	< 0.005	< 0.005	< 0.005	< 0.015	< 0.01
BH-J	1.0'	< 1.0	< 10	10	< 0.005	< 0.005	< 0.005	< 0.015	< 0.01
BH-K	1.5	< 1.0	< 10	< 50	< 0.005	< 0.005	< 0.005	< 0.015	< 0.01
Stockpile		< 1.0	13	66	< 0.005	< 0.005	< 0.005	< 0.015	< 0.01
FFG		NE	NE	NE	0.62	520	230	210	NE

Notes:

Non-detectable concentrations are noted by the less than symbol (<) followed by the detection limit.

Detectable concentrations are in bold.

PRG is the United States Environmental Protection Agency (US EPA) Region IX Preliminary Remediation Goal (PRG) for industrial soil.

NE = PRGs are not established for this compound.

TABLE TWO
Summary of Chemical Analysis of SOIL Samples
Extractables and Volatiles
All results are in parts per million

Boring	Sample Depth	Oil & Grease	Ethylene Glycol	Fluor-anthene	Other PNAs	Other SVOCs	HVOCs
BH-A	3.5'	-	-	-	-	-	-
BH-B	3.5'	-	-	-	-	-	-
BH-C	3.5'	-	-	-	-	-	-
BH-D	3.5'	-	-	-	-	-	-
BH-E	1.5'	-	< 10	-	-	-	< 0.005
BH-F	3.5'	-	< 10	-	-	-	< 0.005
BH-G	1.0'	-	< 10	-	-	-	< 0.005
BH-H	1.5'	-	-	-	-	-	< 0.005
BH-I	2.5'	-	< 10	< 0.3	ND	-	< 0.005
BH-J	1.0'	-	-	-	-	-	< 0.005
BH-K	1.5	-	-	-	-	-	< 0.005
Stockpile		718	-	1.13	ND	ND	< 0.005
PRG		NE	100,000	1,800	Varies	Varies	Varies

Notes:

Non-detectable concentrations are noted by the less than symbol (<) followed by the detection limit.

Detectable concentrations are in bold.

PRG is the United States Environmental Protection Agency (US EPA) Region IX Preliminary Remediation Goal (PRG) for residential soil.

NE = PRGs are not established for this compound.

TABLE THREE
Summary of Chemical Analysis of SOIL Samples
Metals
All results are in parts per million

Boring	Sample Depth	Cadmium	Chromium	Lead	Nickel	Zinc
BH-F	3.5'	< 2.5	21.7	9.3	36.7	30.2
BH-G	1.0'	< 2.5	8.1	10	16	30
BH-I	2.5'	< 2.5	7.2	11.6	14.9	25.1
Stockpile		< 2.5	37.9	34.9	31.8	54.3
PRG		9	210	130	150	22,000

Notes:

Non-detectable concentrations are noted by the less than symbol (<) followed by the detection limit.

Detectable concentrations are in bold.

PRG is the United States Environmental Protection Agency (US EPA) Region IX Preliminary Remediation Goal (PRG) for residential soil.

NE = PRGs are not established for this compound.

TABLE FOUR
Summary of Chemical Analysis of WATER Samples
Petroleum Hydrocarbons
All results are in parts per billion

Boring	TPH Gasoline	TPH Diesel	TPH Oil	Benzene	Toluene	Ethyl Benzene	Total Xylenes	MTBE
BH-A	< 50	< 100	< 500	< 0.5	< 0.5	< 0.5	28.2	1.1
BH-B	76	< 100	< 500	< 0.5	1.2	< 0.5	< 1.5	3.7*/2.4**
BH-C	< 50	< 100	< 500	< 0.5	0.9	< 0.5	< 1.5	3
BH-D	< 50	< 100	< 500	< 0.5	0.8	< 0.5	< 1.5	< 1
BH-F	63,700	12,800	< 500	< 0.5	< 0.5	136	274	< 1
MCL	NE	NE	NE	1	150	700	1,750	13

Notes:

Non-detectable concentrations are noted by the less than symbol (<) followed by the detection limit.

Detectable concentrations are in bold.

MCL is the California Department of Health Services maximum contaminant level for drinking water.

NE = MCLs are not established for this compound.

* = MTBE concentration by EPA Method 8020.

** = MTBE concentration by EPA Method 8260.

TABLE FIVE
Summary of Chemical Analysis of WATER Samples
PNA's and HVOCS
 All results are in parts per billion

Boring	PNA's	HVOCS
BH-B	-	< 0.5 - < 1.0
BH-F	< 10	< 0.5 - < 1.0
MCL	Varies	Varies

Notes:

Non-detectable concentrations are noted by the less than symbol (<) followed by the detection limit.

MCL is the California Department of Health Services maximum contaminant level for drinking water.

APPENDIX A

Letters from the ACHCSA

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY

DAVID J. KEARS, Agency Director



October 1, 1996

Mr. Brian B. Horsefall
937 Quiet Place Court
Walnut Creek, CA 94598

ENVIRONMENTAL HEALTH SERVICES
ENVIRONMENTAL PROTECTION (LOP)
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577
(510) 567-6700
FAX (510) 337-9335

STID 5446

Re: 1075 2nd Street, Albany, California

Dear Mr. Horsefall,

This office has recently named you, the former owner of Goodwin of California, and William Landstra, operator of the current on-site business, European Auto Salvage, as Responsible Parties, in addition to the already named Southern Pacific Trans. Co. (Southern Pacific), for the required investigations related to the former underground storage tank at the above site.

You and Mr. Landstra were named as Responsible Parties (RPs) in accordance with Article 11, Chapter 16, Title 23 California Code of Regulations (CCR); 42USC Section 6991(3)(B); and the fact that both you and Mr. Landstra appear to have owned the referenced underground storage tank, based on the lease contracts which specify that you and Mr. Landstra owned all the improvements on the site. Per Article 11, Chapter 16, Title 23 CCR, an RP is defined as the following: " 1) Any person who owns or operates an underground storage tank used for the storage of any hazardous substance; 2) In the case of any underground storage tank no longer in use, any person who owned or operated the underground storage tank immediately before the discontinuance of its use; 3) Any owner of property where an unauthorized release of a hazardous substance from an underground storage tank has occurred; and 4) Any person who had or has control over an underground storage tank at the time of or following an unauthorized release of a hazardous substance." Additionally, per 42USC Section 6991, the person who owned a tank which was not used after November 8, 1984 immediately before the discontinuance of its use may be named a RP, even though substantial evidence does not exist to show that the leak occurred before discontinuance of use.

This office sent Southern Pacific a letter on December 11, 1995 requesting that a workplan, addressing investigations at the above site, be submitted by the end of January 1996. To this date, this office has not received the requested workplan. Based on the listing of two new RPs for the site, this office is readdressing the contents of the December 11, 1995 letter in this letter, and issuing a new due date of November 29, 1996, for the submittal of the workplan.

Mr. Brian Horsefall

Re: 1075 2nd St.

October 1, 1996

Page 3 of 3

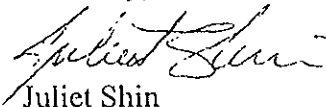
Additionally, if the hydropunch investigation is implemented, this office is requesting that these locations be surveyed to a temporary on-site datum, that water level measurements be collected from these locations, and that a groundwater gradient direction be determined for the site to confirm whether the groundwater is flowing to the west.

This Department will oversee the assessment and remediation of your site. Our oversight will include the review of and comment on work proposals and technical guidance on appropriate investigative approaches and monitoring schedules. The issuance of well drilling permits, however, will be through the Alameda County Flood Control and Water Conservation District, Zone 7, in Pleasanton. The RWQCB may choose to take over as lead agency if it is determined, following the completion of the initial assessment, that there has been a substantial impact to groundwater.

In order to properly conduct a site investigation, you are required to obtain the professional services of a reputable environmental consultant. All reports and proposals must be submitted under seal of a California-Registered Geologist, -Certified Engineering Geologist, or -Registered Civil Engineer.

If you have any questions or comments, please contact me at (510) 567-6763.

Sincerely,



Juliet Shin

Senior Hazardous Materials Specialist

ATTACHMENT

cc: Mr. Randall Smith
Southern Pacific Trans. Co.
One Market Plaza
San Francisco, CA 94105

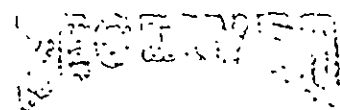
William Landstra
European Auto Salvage
1075 2nd Street
Albany, CA 94702

Acting Chief

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY

DAVID J. KEARS, Agency Director



FEB 21 1997

GARDNER & WYNNE

ENVIRONMENTAL
ENVIRONMENTAL HEALTH SERVICES
ENVIRONMENTAL PROTECTION (LOPI)
1131 Harbor Bay Parkway Suite 250
Alameda, CA 94502-6577
.5101 567-6700
FAX (510) 337-9335

February 18, 1997

Mr. William Landstra
European Auto Salvage
1075 2nd Street
Albany, CA 94702

STID 5446

Re: Investigations related to the former waste oil tank at 1075 2nd Street, Albany, CA

Dear Mr. Landstra,

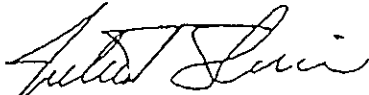
On October 1, 1996, the Alameda County Environmental Protection Division named you as one of the Responsible Parties (RPs) for investigations related to the former waste oil underground storage tank (UST) at the above site (please refer to attached copy of letter). At the time, the County listed you as an RP because it appeared that, per the lease agreement between you and Southern Pacific Transportation Company (Southern Pacific), the property owner, you owned the UST. Recently, this office received an affidavit from a former employee of yours, who provided additional information to indicate that you contributed to the observed contamination at the site and, therefore, qualify as an RP. According to the affidavit, you and your employees utilized the waste oil UST between 1987 and 1991, knowing that the waste oil UST was leaking. Additionally, the affidavit reports that an above ground storage tank with an open top, which was not designed for oil storage, was carelessly used with the oily contents of the tank regularly overflowing onto the ground. Furthermore, oil and antifreeze were discharged into the on-site drain which leads to the adjacent creek and into the Bay. Lastly, per the affidavit, there was a large open area where engines were purged of waste oil directly onto the ground.

Consequently, you have been named by the County as a Responsible Party for investigating, and potentially remediating, the observed contamination at the site. Southern Pacific has also been listed as an RP because they own the property. Per the copy of the February 14, 1997 letter to Mr. Horsfall that you received, Mr. Horsfall is no longer listed as an RP for the site. Per the October 1, 1996 letter, you and Southern Pacific were required to submit a workplan, addressing further investigations at the site, to this office by November 29, 1996. To this date, this office has not received any communication or correspondence from you responding to the County's request. This office is extending to you another due date for the submittal of a workplan addressing the issues outlined in the attached October 1, 1996 letter. This workplan is due to this office within 60 days of this letter (i.e., by April 15, 1997), and should also address the additional issues outlined above.

This office recommends that you contact Southern Pacific to coordinate the submittal of the workplan. If you have any questions or comments, please contact me at (510) 567-6763.

Mr. William Landstra
Re: 1075 2nd St.
February 18, 1997
Page 2 of 2

Sincerely,



Juliet Shin
Senior Hazardous Materials Specialist

ATTACHMENT

cc: Mr. Randall Smith
Southern Pacific Trans. Co.
One Market Plaza
San Francisco, CA 94105

Joan Krajewski
Gardere & Wynne, L.L.P.
1601 Elm Street, Ste 3000
Dallas, Texas 75201-4761

Acting Chief

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY
DAVID J. KEARS, Agency Director



3/11/97
[Handwritten signature]

StID 5446

June 12, 1998

Mr. William Landstra
European Auto Salvage
1075 2nd Street
Albany, CA 94710

Mr. Randall Smith, Environmental Affairs
Southern Pacific Trans Co
One Market Plaza
San Francisco, CA 94105

ENVIRONMENTAL HEALTH SERVICES

1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577
(510) 567-6700
(510) 337-9335 (FAX)

SECOND NOTICE OF VIOLATION

Dear Messrs. Landstra and Smith:

On February 18, 1997, the Alameda County Department of Environmental Health, Hazardous Materials Division, sent you a letter requesting a workplan for further subsurface investigations to determine the extent of groundwater contamination onsite due to the unauthorized release of fuel products at 1075 2nd Street, Albany, CA. A workplan was due to this office by November 29, 1996 and subsequently extended to April 15, 1997. As of the date of this letter, however, we have not received any communication from you on this matter. Therefore, this letter constitutes a Second Notice that you are in violation of specific laws and that the technical report is due.

According to Section 25298 of the California Health and Safety Code, underground storage tank closure is incomplete until the responsible party characterizes and remediates the contamination resulting from product discharge. Therefore, you, as the responsible party are in violation of this section of the Code, for which Section 25299 specifies civil penalties of up to \$5,000, for each day of violation, upon conviction. Also, failure to furnish technical reports regarding documented or potential groundwater contamination violates Section 13267(b) of the California Water Code. The Regional Water Quality Control Board (RWQCB) can impose civil penalties of up to \$1,000 per day that such a violation continues.

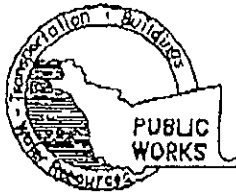
At this time, you are required to submit the technical reports for the site to this office **within 30 days** from the date of this letter. Modification of required tasks or extensions of stated deadlines must be confirmed in writing by either this agency or the RWQCB.

If you have any questions, I can be reached at (510) 567-6762.

eva chu
Hazardous Materials Specialist

APPENDIX B

Drilling Permit



ALAMEDA COUNTY PUBLIC WORKS AGENCY

WATER RESOURCES SECTION
951 TURNER COURT, SUITE 300, HAYWARD, CA 94545-2651
PHONE (510) 670-5575 ANDREAS GODFREY FAX (510) 670-5262
(510) 670-5248 ALVIN KAN

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

FOR OFFICE USE

LOCATION OF PROJECT EAST Arcades
1075 2nd Street
Albany, CA

PERMIT NUMBER 99WR717
WELL NUMBER _____
APN _____

California Coordinate System NAD83 Accuracy ± 1/4"
CCN 0-000
ADP _____

PERMIT CONDITIONS

Circled Permit Requirements Apply

CLIENT
Name EAST Arcades
Address 1075 2nd Street Phone _____
City Albany, CA Zip 94710

- A. GENERAL**
 1. A permit application should be submitted so as to arrive at the ACPWA office five days prior to proposed starting date.
 2. Submit to ACPWA within 60 days after completion of permitted work the original Department of Water Resources Water Well Drillers Report or equivalent for well projects, or drilling logs and location sketch for geotechnical projects.
 3. Permit is void if project not begun within 90 days of approval date.

APPLICANT
Name Aqua Science Engineers
Address 208 West El Pintado Phone 925 820-7377
City Danville, CA Zip 94526

B. WATER SUPPLY WELLS

1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
2. Minimum seal depth is 50 feet for municipal and industrial wells or 20 feet for domestic and irrigation wells unless a lesser depth is specially approved.

TYPE OF PROJECT

Well Construction	<input type="checkbox"/>	Geotechnical Investigation	<input type="checkbox"/>
Cathodic Protection	<input type="checkbox"/>	General	<input type="checkbox"/>
Water Supply	<input type="checkbox"/>	Contamination	<input checked="" type="checkbox"/>
Monitoring	<input type="checkbox"/>	Well Destruction	<input type="checkbox"/>

C. GROUNDWATER MONITORING WELLS INCLUDING PIEZOMETERS

1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
2. Minimum seal depth for monitoring wells is the maximum depth practicable or 20 feet.

PROPOSED WATER SUPPLY WELL USE

New Domestic	<input type="checkbox"/>	Replacement Domestic	<input type="checkbox"/>
Municipal	<input type="checkbox"/>	Irrigation	<input type="checkbox"/>
Industrial	<input type="checkbox"/>	Other	<input type="checkbox"/>

D. GEOTECHNICAL

Backfill bore hole with compacted cuttings or heavy bentonite and upper two feet with compacted material. In areas of known or suspected contamination, tremie cement grout shall be used in place of compacted cuttings.

DRILLING METHOD:

Mud Rotary	<input type="checkbox"/>	Air Rotary	<input type="checkbox"/>	Auger	<input type="checkbox"/>
Cable	<input type="checkbox"/>	Other	<input checked="" type="checkbox"/>	<u>B Gasprobe</u>	

E. CATHODIC

Fill hole above anode zone with concrete placed by tremie.

DRILLER'S LICENSE NO 057 487000

F. WELL DESTRUCTION

See attached.

WELL PROJECTS

Drill Hole Diameter	_____ in.	Maximum	_____ ft.
Casing Diameter	_____ in.	Depth	_____ ft.
Surface Seal Depth	_____ ft.	Number	_____

G. SPECIAL CONDITIONS SEE ATTACHED INFORMATION.

GEOTECHNICAL PROJECTS

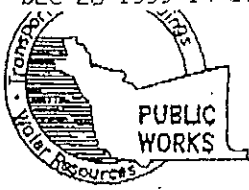
Number of Borings	<u>11</u>	Maximum	_____ ft.
Hole Diameter	<u>2</u> in.	Depth	<u>15</u> ft.

ESTIMATED STARTING DATE 12-29-99
ESTIMATED COMPLETION DATE 01-29-99

APPROVED Frank L. Call DATE 12-28-99

I hereby agree to comply with all requirements of this permit and Alameda County Ordinance No. 73-46.

APPLICANT'S SIGNATURE Robert K. Kiley DATE 12-27-99



ALAMEDA COUNTY PUBLIC WORKS AGENCY

WATER RESOURCES SECTION

951 TURNER COURT, SUITE 300, HAYWARD, CA 94545-2651

PHONE (510) 670-5575 ANDREAS GODFREY FAX (510) 670-5262
(510) 670-5248 ALVIN KAN

WATER RESOURCES SECTION GROUNDWATER PROTECTION ORDINANCE For Monitoring Well at Clean or Contaminated Site

Destruction Requirements:

1. Drill out the well so that the casing, seal, and gravel pack are removed to the bottom of the well.
2. Sound the well as deeply as practicable and record for your report.
3. Using a tremie pipe, fill the hole to 2 feet below the lower of finished grade or original ground with neat cement.
4. After the seal has set, backfill the remaining hole with compacted material.




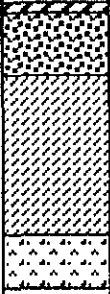
APPENDIX C

Boring Logs

SOIL BORING LOG AND COMPLETION DETAILS	Boring BH-A
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Project Name: Easy Mercedes	Project Location: 1072 2nd Street, Albany, CA	Page 1 of 1
Driller: Vironex	Type of Rig: Geoprobe	Size of Drill: 2.0" Diameter Direct Push
Logged By: Robert E. Kitay, R.G.	Date Drilled: December 29, 1999	Checked By: Robert E. Kitay, R.G.

WATER AND WELL DATA	Total Depth of Well Completed: NA
Depth of Water First Encountered: 4'	Well Screen Type and Diameter: NA
Static Depth of Water in Boring: 4'	Well Screen Slot Size: NA
Total Depth of Boring: 12'	Type and Size of Soil Sampler: 2.0" I.D. Macrocore Sampler

Depth in Feet	BORING DETAIL	Description	SOIL/ROCK SAMPLE DATA				Depth in Feet	DESCRIPTION OF LITHOLOGY
			Interval	Water Level	OMV (ppmv)	Graphic Log		standard classification, texture, relative moisture, density, stiffness, odor-staining, USCS designation.
0	 Class "H" Portland Cement	 	 4'	0		0	Concrete	
5				0		5	Sandy GRAVEL (GW); black; loose; damp; 65% subangular to subrounded gravel to 1.5" diameter; 30% fine to medium sand; 5% silt; non-plastic; high estimated K; no odor	
10				0		10	Silty GRAVEL (GM); yellow brown; dense; moist; 75% angular to subangular gravel to 2" diameter; 15-20% silt; 5-10% medium sand; non-plastic; high estimated K; no odor	
15				Gravelly SAND (SW); yellow brown; medium dense; wet; 65% fine to medium sand; 20% subangular gravel to 1.5" diameter; 15% silt; non-plastic; high estimated K; no odor				
20	No recovery between 8 and 12-feet							
25	End of Boring at 12'							
30	End of Boring at 12'							



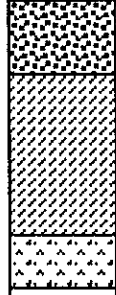
SOIL BORING LOG AND COMPLETION DETAILS	Boring BH-B
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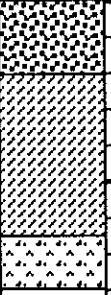
Project Name: Easy Mercedes	Project Location: 1072 2nd Street, Albany, CA	Page 1 of 1
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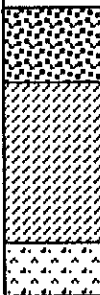

Driller: Vironex	Type of Rig: Geoprobe	Size of Drill: 2.0" Diameter Direct Push
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Logged By: Robert E. Kitay, R.G.	Date Drilled: December 29, 1999	Checked By: Robert E. Kitay, R.G.
----------------------------------	---------------------------------	-----------------------------------

WATER AND WELL DATA	Total Depth of Well Completed: NA
Depth of Water First Encountered: 4'	Well Screen Type and Diameter: NA
Static Depth of Water in Boring: 4'	Well Screen Slot Size: NA
Total Depth of Boring: 8'	Type and Size of Soil Sampler: 2.0" I.D. Macrocore Sampler

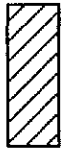

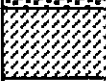
Depth in Feet	BORING DETAIL	Description	SOIL/ROCK SAMPLE DATA				Depth in Feet	DESCRIPTION OF LITHOLOGY
			Interval	Water Level	OMV (ppmv)	Graphic Log		standard classification, texture, relative moisture, density, stiffness, odor-staining, USCS designation.
0		Class "H" Portland Cement	X		0		0	Sandy GRAVEL (GW); black; loose; damp; 65% subangular to subrounded gravel to 1.5" diameter; 30% fine to medium sand; 5% silt; non-plastic; high estimated K; no odor
5			X		0		5	Silty GRAVEL (GM); yellow brown; dense; moist; 75% angular to subangular gravel to 2" diameter; 15-20% silt; 5-10% medium sand; non-plastic; high estimated K; no odor
10			X		0		10	Gravely SAND (SW); yellow brown; medium dense; wet; 65% fine to medium sand; 20% subangular gravel to 1.5" diameter; 15% silt; non-plastic; high estimated K; no odor
15						15	End of Boring at 8'	
20						20		
25						25		
30						30		


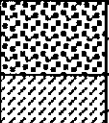
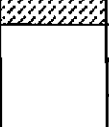
SOIL BORING LOG AND COMPLETION DETAILS							Boring BH-C	
Project Name: Easy Mercedes			Project Location: 1072 2nd Street, Albany, CA				Page 1 of 1	
Driller: Vironex			Type of Rig: Geoprobe		Size of Drill: 2.0" Diameter Direct Push			
Logged By: Robert E. Kitay, R.G.			Date Drilled: December 29, 1999		Checked By: Robert E. Kitay, R.G.			
WATER AND WELL DATA					Total Depth of Well Completed: NA			
Depth of Water First Encountered: 4'					Well Screen Type and Diameter: NA			
Static Depth of Water in Boring: 4'					Well Screen Slot Size: NA			
Total Depth of Boring: 8'					Type and Size of Soil Sampler: 2.0" I.D. Macrocore Sampler			
Depth in Feet	BORING DETAIL	Description	SOIL/ROCK SAMPLE DATA				Depth in Feet	DESCRIPTION OF LITHOLOGY
			Interval	Water Level	OVM (ppmv)	Graphic Log		standard classification, texture, relative moisture, density, stiffness, odor-staining, USCS designation.
0	 ← Class "H" Portland Cement	 Water Level	 4'	0		0	Sandy GRAVEL (GW); black; loose; damp; 65% subangular to subrounded gravel to 1.5" diameter; 30% fine to medium sand; 5% silt; non-plastic; high estimated K; no odor	
5				5		Silty GRAVEL (GM); yellow brown; dense; moist; 75% angular to subangular gravel to 2" diameter; 15-20% silt; 5-10% medium sand; non-plastic; high estimated K; no odor		
10				10		Gravely SAND (SW); yellow brown; medium dense; wet; 65% fine to medium sand; 20% subangular gravel to 1.5" diameter; 15% silt; non-plastic; high estimated K; no odor		
15							End of Boring at 8'	
20								
25								
30								






SOIL BORING LOG AND COMPLETION DETAILS							Boring BH-D	
Project Name: Easy Mercedes			Project Location: 1072 2nd Street, Albany, CA				Page 1 of 1	
Driller: Vironex			Type of Rig: Geoprobe		Size of Drill: 2.0" Diameter Direct Push			
Logged By: Robert E. Kitay, R.G.			Date Drilled: December 29, 1999		Checked By: Robert E. Kitay, R.G.			
WATER AND WELL DATA							Total Depth of Well Completed: NA	
Depth of Water First Encountered: 4'							Well Screen Type and Diameter: NA	
Static Depth of Water in Boring: 4'							Well Screen Slot Size: NA	
Total Depth of Boring: 8'							Type and Size of Soil Sampler: 2.0" I.D. Macrocore Sampler	
Depth in Feet	BORING DETAIL	Description	SOIL/ROCK SAMPLE DATA				Depth in Feet	DESCRIPTION OF LITHOLOGY
			Interval	Water Level	OVM (ppmv)	Graphic Log		standard classification, texture, relative moisture, density, stiffness, odor-staining, USCS designation.
0	 Class "H" Portland Cement	 Water Level		0	 4'	0	0	Sandy GRAVEL (GW); black; loose; damp; 65% subangular to subrounded gravel to 1.5" diameter; 30% fine to medium sand; 5% silt; non-plastic; high estimated K; no odor
5				0		Silty GRAVEL (GM); yellow brown; dense; moist; 75% angular to subangular gravel to 2" diameter; 15-20% silt; 5-10% medium sand; non-plastic; high estimated K; no odor		
10				0		Gravely SAND (SW); yellow brown; medium dense; wet; 65% fine to medium sand; 20% subangular gravel to 1.5" diameter; 15% silt; non-plastic; high estimated K; no odor		
End of Boring at 8'								

SOIL BORING LOG AND COMPLETION DETAILS							Boring BH-E	
Project Name: Easy Mercedes			Project Location: 1072 2nd Street, Albany, CA				Page 1 of 1	
Driller: Vironex			Type of Rig: Geoprobe		Size of Drill: 2.0" Diameter Direct Push			
Logged By: Robert E. Kitay, R.G.			Date Drilled: December 29, 1999		Checked By: Robert E. Kitay, R.G.			
WATER AND WELL DATA					Total Depth of Well Completed: NA			
Depth of Water First Encountered: Not encountered					Well Screen Type and Diameter: NA			
Static Depth of Water in Boring: NE					Well Screen Slot Size: NA			
Total Depth of Boring: 4'					Type and Size of Soil Sampler: 2.0" I.D. Macrocore Sampler			
Depth in Feet	BORING DETAIL	Description	SOIL/ROCK SAMPLE DATA				Depth in Feet	DESCRIPTION OF LITHOLOGY
			Interval	Water Level	OMV (ppmv)	Graphic Log		standard classification, texture, relative moisture, density, stiffness, odor-staining, USCS designation.
0		Class "H" Portland Cement			0		0	Asphaltic concrete
5							5	Sandy GRAVEL (GW); black; loose; damp; 65% subangular to subrounded gravel to 1.5" diameter; 30% fine to medium sand; 5% silt; non-plastic; high estimated K; no odor
								Silty GRAVEL (GM); yellow brown; dense; moist; 75% angular to subangular gravel to 2" diameter; 15-20% silt; 5-10% medium sand; non-plastic; high estimated K; no odor
								End of Boring at 4'
10								
15								
20								
25								
30								

SOIL BORING LOG AND COMPLETION DETAILS							Boring BH-F	
Project Name: Easy Mercedes			Project Location: 1072 2nd Street, Albany, CA				Page 1 of 1	
Driller: Vironex			Type of Rig: Geoprobe		Size of Drill: 2.0" Diameter Direct Push			
Logged By: Robert E. Kitay, R.G.			Date Drilled: December 29, 1999		Checked By: Robert E. Kitay, R.G.			
WATER AND WELL DATA					Total Depth of Well Completed: NA			
Depth of Water First Encountered: 4'					Well Screen Type and Diameter: NA			
Static Depth of Water in Boring: 4'					Well Screen Slot Size: NA			
Total Depth of Boring: 18'					Type and Size of Soil Sampler: 2.0" I.D. Macrocore Sampler			
Depth in Feet	BORING DETAIL	Description	SOIL/ROCK SAMPLE DATA				Depth in Feet	DESCRIPTION OF LITHOLOGY
			Interval	Water Level	OVM (ppmv)	Graphic Log		standard classification, texture, relative moisture, density, stiffness, odor-staining, USCS designation.
0		Class "H" Portland Cement	0-4		0		0	Asphaltic concrete
5			0		5		Sandy GRAVEL (GW); black; loose; damp; 65% subangular to subrounded gravel to 1.5" diameter; 30% fine to medium sand; 5% silt; non-plastic; high estimated K; no odor	
10			0		10		Silty GRAVEL (GM); olive brown; dense; moist; 75% angular to subangular gravel to 2" diameter; 15-20% silt; 5-10% medium sand; non-plastic; high estimated K; slight paint-thinner like odor	
15						15	Gravely SAND (SW); olive; medium dense; wet; 65% fine to medium sand; 20% subangular gravel to 1.5" diameter; 15% silt; non-plastic; high estimated K; paint-thinner like odor No recovery below 8-feet	
20						20	End of Boring at 18'	
25						25		
30						30		

SOIL BORING LOG AND COMPLETION DETAILS							Boring BH-G	
Project Name: Easy Mercedes			Project Location: 1072 2nd Street, Albany, CA				Page 1 of 1	
Driller: Vironex			Type of Rig: Geoprobe		Size of Drill: 2.0" Diameter Direct Push			
Logged By: Robert E. Kitay, R.G.			Date Drilled: December 29, 1999		Checked By: Robert E. Kitay, R.G.			
WATER AND WELL DATA					Total Depth of Well Completed: NA			
Depth of Water First Encountered: Not encountered					Well Screen Type and Diameter: NA			
Static Depth of Water in Boring: NE					Well Screen Slot Size: NA			
Total Depth of Boring: 4'					Type and Size of Soil Sampler: 2.0" I.D. Macrocore Sampler			
Depth in Feet	BORING DETAIL	Description	SOIL/ROCK SAMPLE DATA				Depth in Feet	DESCRIPTION OF LITHOLOGY
			Interval	Water Level	OMV (ppmv)	Graphic Log		standard classification, texture, relative moisture, density, stiffness, odor-staining, USCS designation.
0		Class "H" Portland Cement	0-1		0		0	Asphaltic concrete
5			1-4				5	Silty GRAVEL (GM); yellow brown; dense; moist; 75% angular to subangular gravel to 2" diameter; 15-20% silt; 5-10% medium sand; non-plastic; high estimated K; no odor
10							End of Boring at 4'	
15								
20								
25								
30								

SOIL BORING LOG AND COMPLETION DETAILS							Boring BH-H	
Project Name: Easy Mercedes			Project Location: 1072 2nd Street, Albany, CA				Page 1 of 1	
Driller: Vironex			Type of Rig: Geoprobe		Size of Drill: 2.0" Diameter Direct Push			
Logged By: Robert E. Kitay, R.G.			Date Drilled: December 29, 1999		Checked By: Robert E. Kitay, R.G.			
WATER AND WELL DATA							Total Depth of Well Completed: NA	
Depth of Water First Encountered: Not encountered							Well Screen Type and Diameter: NA	
Static Depth of Water in Boring: NA							Well Screen Slot Size: NA	
Total Depth of Boring: 4'							Type and Size of Soil Sampler: 2.0" I.D. Macrocore Sampler	
Depth in Feet	BORING DETAIL	Description	SOIL/ROCK SAMPLE DATA				Depth in Feet	DESCRIPTION OF LITHOLOGY
			Interval	Water Level	OMV (ppmv)	Graphic Log		standard classification, texture, relative moisture, density, stiffness, odor-staining, USCS designation.
0		Class "H" Portland Cement	0-1		0		0	Sandy GRAVEL (GW); black; loose; damp; 65% subangular to subrounded gravel to 1.5" diameter; 30% fine to medium sand; 5% silt; non-plastic; high estimated K; no odor
5			1-4					5
10							10	End of Boring at 4'
15							15	
20							20	
25							25	
30							30	

SOIL BORING LOG AND COMPLETION DETAILS							Boring BH-I	
Project Name: Easy Mercedes			Project Location: 1072 2nd Street, Albany, CA				Page 1 of 1	
Driller: Vironex			Type of Rig: Geoprobe		Size of Drill: 2.0" Diameter Direct Push			
Logged By: Robert E. Kitay, R.G.			Date Drilled: December 29, 1999		Checked By: Robert E. Kitay, R.G.			
WATER AND WELL DATA							Total Depth of Well Completed: NA	
Depth of Water First Encountered: Not encountered							Well Screen Type and Diameter: NA	
Static Depth of Water in Boring: NA							Well Screen Slot Size: NA	
Total Depth of Boring: 4'							Type and Size of Soil Sampler: 2.0" I.D. Macrocore Sampler	
Depth in Feet	BORING DETAIL	Description	SOIL/ROCK SAMPLE DATA				Depth in Feet	DESCRIPTION OF LITHOLOGY
			Interval	Water Level	OVM (ppmv)	Graphic Log		standard classification, texture, relative moisture, density, stiffness, odor-staining, USCS designation.
0		Class "H" Portland Cement			0		0	Sandy GRAVEL (GW); black; loose; damp; 65% subangular to subrounded gravel to 1.5" diameter; 30% fine to medium sand; 5% silt; non-plastic; high estimated K; no odor
5								5
10							10	End of Boring at 4'
15							15	
20							20	
25							25	
30							30	




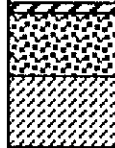
SOIL BORING LOG AND COMPLETION DETAILS	Boring BH-J
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Project Name: Easy Mercedes	Project Location: 1072 2nd Street, Albany, CA	Page 1 of 1
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Driller: Vironex	Type of Rig: Geoprobe	Size of Drill: 2.0" Diameter Direct Push
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Logged By: Robert E. Kitay, R.G.	Date Drilled: December 29, 1999	Checked By: Robert E. Kitay, R.G.
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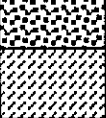
WATER AND WELL DATA	Total Depth of Well Completed: NA
Depth of Water First Encountered: Not encountered	Well Screen Type and Diameter: NA
Static Depth of Water in Boring: NE	Well Screen Slot Size: NA
Total Depth of Boring: 4'	Type and Size of Soil Sampler: 2.0" I.D. Macrocore Sampler

Depth in Feet	BORING DETAIL	Description	SOIL/ROCK SAMPLE DATA				Depth in Feet	DESCRIPTION OF LITHOLOGY
			Interval	Water Level	OMV (ppmv)	Graphic Log		standard classification, texture, relative moisture, density, stiffness, odor-staining, USCS designation.
0	 ← Class "H" Portland Cement			0		0	Concrete Sandy GRAVEL (GW); black; loose; damp; 65% subangular to subrounded gravel to 1.5" diameter; 30% fine to medium sand; 5% silt; non-plastic; high estimated K; no odor	
5						5	Silty GRAVEL (GM); yellow brown; dense; moist; 75% angular to subangular gravel to 2" diameter; 15-20% silt; 5-10% medium sand; non-plastic; high estimated K; no odor	
10						10	End of Boring at 4'	
15						15		
20						20		
25						25		
30						30		

SOIL BORING LOG AND COMPLETION DETAILS	Boring BH-K
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Project Name: Easy Mercedes	Project Location: 1072 2nd Street, Albany, CA	Page 1 of 1
Driller: Vironex	Type of Rig: Geoprobe	Size of Drill: 2.0" Diameter Direct Push
Logged By: Robert E. Kitay, R.G.	Date Drilled: December 29, 1999	Checked By: Robert E. Kitay, R.G.

WATER AND WELL DATA	Total Depth of Well Completed: NA
Depth of Water First Encountered: Not encountered	Well Screen Type and Diameter: NA
Static Depth of Water in Boring: NE	Well Screen Slot Size: NA
Total Depth of Boring: 4'	Type and Size of Soil Sampler: 2.0" I.D. Macrocore Sampler

Depth in Feet	BORING DETAIL	Description	SOIL/ROCK SAMPLE DATA				Depth in Feet	DESCRIPTION OF LITHOLOGY
			Interval	Water Level	OM (ppmv)	Graphic Log		standard classification, texture, relative moisture, density, stiffness, odor-staining, USCS designation.
0		Class "H" Portland Cement	X		0		0	Concrete
5			X				5	Silty GRAVEL (GM); yellow brown; dense; moist; 75% angular to subangular gravel to 2" diameter; 15-20% silt; 5-10% medium sand; non-plastic; high estimated K; no odor
10						10	End of Boring at 4'	
15						15		
20						20		
25						25		
30						30		

APPENDIX D

Analytical Report and Chain of Custody Forms
For Soil and Groundwater Samples



Southland Technical Services, Inc.
Environmental Laboratories

1601 Telegraph Road, Suite L
Montebello, CA 90640

Phone (323) 888-0728
Fax (323) 888-1509

01-14-2000

Mr. Robert Kitay
Aqua Science Engineers
208 W. EL Pintado Road
Danville, CA 94526

Project: Easy Mercedes
Project Site: 1075 2nd Street, Albany, CA
Sample Date: 12-29-1999
Lab Job No.: G00105

Dear Mr. Kitay:

Enclosed please find the analytical report for the sample(s) received by STS Environmental Laboratories on 01-05-2000 and analyzed by the following EPA methods:

EPA 8015M (Diesel)
EPA 8015M (Gasoline)
EPA 8020 (BTEX, MTBE)
EPA 8010 Compounds by GC/MS
EPA 8260 for Ethylene Glycol
EPA 413.2 (Oil & grease)
EPA 7000 (LUFT 5 Metals)
EPA 8270 (PAH's by GC/MS)

All analyses have met the QA/QC criteria of this laboratory.

The sample(s) arrived in good conditions (i.e., chilled, intact) and with a chain of custody record attached.

STS Environmental Laboratory is certified by CA DHS (Certificate Number 1986). Thank you for giving us the opportunity to serve you. Please feel free to call me at (323) 888-0728 if our laboratory can be of further service to you.

Sincerely,

A handwritten signature in black ink, appearing to read "Roger Wang", is written over a light-colored background.

Roger Wang, Ph. D.
Laboratory Director

Enclosures

This cover letter is an integral part of this analytical report.



Southland Technical Services, Inc.
Environmental Laboratories

301 Telegraph Road, Suite L
Maricello, CA 90640

Phone (323) 888-0728
Fax (323) 888-1509

01-14-2000

Client: Aqua Science Engineers
Project: Easy Mercedes
Project Site: 1075 2nd Street, Albany, CA
Matrix: Water
Batch No.: AA05-GW1

Lab Job No.: G00105
Date Sampled: 12-29-1999
Date Received: 01-05-2000
Date Analyzed: 01-05-2000

EPA 8015m (Gasoline)/8020 (BTEX, MTBE)
Reporting Units: $\mu\text{g/L}$ (ppb)

Sample ID	Lab ID	DF	MTBE	Benzene	Toluene	Ethyl- benzene	Total Xylenes	Gasoline Range TPH*
Method Detect. Limit (MDL)			1	0.5	0.5	0.5	1.5	50
Method Blank		1	ND	ND	ND	ND	ND	ND
BH-A Water	G0105-12	1	1.1	ND	ND	ND	28.2	ND
BH-B Water	G0105-13	1	3.7	ND	1.2	ND	ND	76
BH-C Water	G0105-14	1	3.0	ND	0.9	ND	ND	ND
BH-D Water	G0105-15	1	ND	ND	0.8	ND	ND	ND
BH-F Water	G0105-16	10	ND	ND	ND	136	274	63,700

* Gasoline Range TPH are hydrocarbons in carbon range C4 - C12.

DF: Dilution Factor ($DF \times MDL = \text{Reporting Limit or RL for the sample}$).

ND: Not Detected (below RL).

NA: Not Analyzed.



Southland Technical Services, Inc.
Environmental Laboratories

7801 Telegraph Road, Suite L
Montebello, CA 90640

Phone (323) 888-0728
Fax (323) 888-1509

Client: Aqua Science Engineers
Project: Easy Mercedes

Lab Job No.: G90105
Matrix: Water

Date Reported: 01-14-2000
Date Sampled: 12-29-1999

EPA 8010 Compounds by 8260B (GC/MS). Reporting Unit: µg/L (ppb)

DATE ANALYZED		01-07-00	01-07-00	01-07-00		
DILUTION FACTOR		1	1	1		
LAB SAMPLE I.D.			G0105-13	G0105-16		
CLIENT SAMPLE I.D.		MB	BH-B Water	BH-F Water		
COMPOUND	MDL					
Dichlorodifluoromethane	1	ND	ND	ND		
Chloromethane	1	ND	ND	ND		
Vinyl Chloride	0.5	ND	ND	ND		
Bromomethane	1	ND	ND	ND		
Chloroethane	1	ND	ND	ND		
Trichlorofluoromethane	1	ND	ND	ND		
1,1-Dichloroethene	1	ND	ND	ND		
Methylene Chloride	1	ND	ND	ND		
trans-1,2-Dichloroethene	1	ND	ND	ND		
1,1-Dichloroethane	1	ND	ND	ND		
cis-1,2-Dichloroethene	1	ND	ND	ND		
Bromochloromethane	1	ND	ND	ND		
Chloroform	1	ND	ND	ND		
1,2-Dichloroethane	1	ND	ND	ND		
1,1,1-Trichloroethane	1	ND	ND	ND		
Carbon tetrachloride	1	ND	ND	ND		
Trichloroethene	1	ND	ND	ND		
1,2-Dichloropropane	1	ND	ND	ND		
Bromodichloromethane	1	ND	ND	ND		
Dibromomethane	1	ND	ND	ND		
Trans-1,3-Dichloropropene	1	ND	ND	ND		
cis-1,3-Dichloropropene	1	ND	ND	ND		
1,1,2-Trichloroethane	1	ND	ND	ND		
Dibromochloromethane	1	ND	ND	ND		
2-Chloroethylvinyl ether	1	ND	ND	ND		
Bromoform	1	ND	ND	ND		
Tetrachloroethene	1	ND	ND	ND		
Chlorobenzene	1	ND	ND	ND		
1,1,2,2-Tetrachloroethane	1	ND	ND	ND		
1,3-Dichlorobenzene	1	ND	ND	ND		
1,4-Dichlorobenzene	1	ND	ND	ND		
1,2-Dichlorobenzene	1	ND	ND	ND		
MTBE	1	ND	2.4	ND		

MDL=Method Detection Limit; MB=Method Blank; ND=Not Detected (below DF × MDL); * obtained from higher dilution analysis.



Southland Technical Services, Inc.
Environmental Laboratories

107 Telegraph Road, Suite L
Mariposa, CA 90640

Phone (323) 888-0728
Fax (323) 888-1509

01-14-2000

Client: Aqua Science Engineers
Project: Easy Mercedes
Project Site: 1075 2nd Street, Albany, CA
Matrix: Water
Extraction Method: EPA 3510A
Batch No.: 0111-BNA

Lab Job No.: G00105
Date Sampled: 12-29-1999
Date Received: 01-05-2000
Date Extracted: 01-10-2000
Date Analyzed: 01-11-2000

Polynuclear Aromatic Hydrocarbons by EPA 8270B (GC/MS)
Reporting Units: µg/L (ppb)

LAB SAMPLE I.D.		MB	G0105-16				
CLIENT SAMPLE I.D.			BH-F Water				
DILUTION FACTOR		1	1				
COMPOUND	MDL						
Naphthalene	10	ND	ND				
Acenaphthylene	10	ND	ND				
Acenaphthene	10	ND	ND				
Fluorene	10	ND	ND				
Phenanthrene	10	ND	ND				
Anthracene	10	ND	ND				
Pyrene	10	ND	ND				
Fluoranthene	10	ND	ND				
Benzo(a)anthracene	10	ND	ND				
Chrysene	10	ND	ND				
Benzo(b)fluoranthene	10	ND	ND				
Benzo(k)fluoranthene	10	ND	ND				
Benzo(a)pyrene	10	ND	ND				
Indeno(1,2,3-cd)pyrene	10	ND	ND				
Benzo(g,h,i)perylene	10	ND	ND				
Diben(a,h)anthracene	10	ND	ND				

MDL: Method Detection Limit.

RL: Reporting Limit (MDL x Dilution Factor.)

ND: Not Detected (Below RL).



Southland Technical Services, Inc.
Environmental Laboratories

1511 Telegraph Road, Suite L
Montebello, CA 90640

Phone (323) 888-0728
Fax (323) 888-1509

01-14-2000

Client: Aqua Science Engineers
Project: Easy Mercedes
Project Site: 1075 2nd Street, Albany, CA
Matrix: Soil
Batch No.: CA05-GS1

Lab Job No.: G00105
Date Sampled: 12-29-1999
Date Received: 01-05-2000
Date Analyzed: 01-05-2000

EPA 8015m (Gasoline)/8020 (BTEX, MTBE)
Reporting Units: mg/kg (ppm)

Sample ID	Lab ID	DF	MTBE	Benzene	Toluene	Ethyl-benzene	Total Xylenes	Gasoline Range TPH*
Method Detect. Limit (MDL)			0.01	0.005	0.005	0.005	0.015	1.0
Method Blank		1	ND	ND	ND	ND	ND	ND
BH-A 3.5'	G0105-1	1	ND	ND	ND	ND	ND	ND
BH-B 3.5'	G0105-2	1	ND	ND	ND	ND	ND	ND
BH-C 3.5'	G0105-3	1	ND	ND	ND	ND	ND	ND
BH-D 3.5'	G0105-4	1	ND	ND	ND	ND	ND	ND
BH-E 1.5'	G0105-5	1	ND	ND	ND	ND	0.016	ND
BH-F 3.5'	G0105-6	1	ND	ND	ND	ND	ND	ND
BH-G 1.0'	G0105-7	1	ND	ND	ND	ND	ND	ND
BH-H 1.5'	G0105-8	1	ND	ND	ND	ND	ND	ND
BH-I 2.5'	G0105-9	1	ND	ND	ND	ND	ND	ND
BH-J 1.0'	G0105-10	1	ND	ND	ND	ND	ND	ND
BH-K 1.5'	G0105-11	1	ND	ND	ND	ND	ND	ND
Stock pile	G0105-17	1	ND	ND	ND	ND	ND	ND

* Gasoline Range TPH are hydrocarbons in carbon range C4 - C12.

DF: Dilution Factor (DF × MDL = Reporting Limit or RL for the sample).

ND: Not Detected (below RL).

NA: Not Analyzed.



Southland Technical Services, Inc.
Environmental Laboratories

1001 Telegraph Road, Suite L
Montebello, CA 90640

Phone (323) 888-0728
Fax (323) 888-1509

01-14-2000

Client: Aqua Science Engineers
Project: Easy Mercedes
Project Site: 1075 2nd Street, Albany, CA
Matrix: Soil
Batch No.: EA05-DS1

Lab Job No.: G00105
Date Sampled: 12-29-1999
Date Received: 01-05-2000
Date Analyzed: 01-05-2000

EPA Method 8015M (Petroleum Hydrocarbon Chain)
Reporting Units: mg/kg (ppm)

Sample ID	Lab ID	DF	C4-C12 (gasoline)*	C12-C23 (Diesel)	C23-C40 (Oil)
Method Detection Limit			1	10	50
Method Blank		1	ND	ND	ND
BH-A 3.5'	G0105-1	1	ND	ND	ND
BH-B 3.5'	G0105-2	1	ND	ND	ND
BH-C 3.5'	G0105-3	1	ND	ND	ND
BH-D 3.5'	G0105-4	1	ND	12	23 j
BH-E 1.5'	G0105-5	1	ND	ND	ND
BH-F 3.5'	G0105-6	1	ND	ND	ND
BH-G 1.0'	G0105-7	1	ND	23	184
BH-H 1.5'	G0105-8	1	ND	ND	ND
BH-I 2.5'	G0105-9	1	ND	17	234
BH-J 1.0'	G0105-10	1	ND	ND	10 j
BH-K 1.5'	G0105-11	1	ND	ND	ND
Stock pile	G0105-17	1	ND	13	66

* Gasoline results were obtained from Purge & Trap analysis.

j Trace level, below reporting limit

ND: Not Detected (at the specified limit)



Southland Technical Services, Inc.
Environmental Laboratories

777 Telegraph Road, Suite L
Menlo Park, CA 94025

Phone (323) 888-0728
Fax (323) 888-1509

Client: Aqua Science Engineers
Project: Easy Mercedes

Lab Job No.: G90105
Matrix: Soil

Date Reported: 01-14-2000
Date Sampled: 12-29-1999

EPA 8010 Compounds by GC/MS. Reporting Unit: µg/kg (ppb)

DATE ANALYZED		01-05-00	01-05-00	01-05-00	01-05-00	01-05-00
DILUTION FACTOR		1	1	1	1	1
LAB SAMPLE I.D.			G0105-5	G0105-6	G0105-7	G0105-8
CLIENT SAMPLE I.D.			BH-E 1.5'	BH-F 3.5'	BH-G 1.5'	BH-H 1.5'
COMPOUND	MDL	MB				
Dichlorodifluoromethane	5	ND	ND	ND	ND	ND
Chloromethane	5	ND	ND	ND	ND	ND
Vinyl Chloride	5	ND	ND	ND	ND	ND
Bromomethane	5	ND	ND	ND	ND	ND
Chloroethane	5	ND	ND	ND	ND	ND
Trichlorofluoromethane	5	ND	ND	ND	ND	ND
1,1-Dichloroethene	5	ND	ND	ND	ND	ND
Methylene Chloride	5	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	5	ND	ND	ND	ND	ND
1,1-Dichloroethane	5	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	5	ND	ND	ND	ND	ND
Bromochloromethane	5	ND	ND	ND	ND	ND
Chloroform	5	ND	ND	ND	ND	ND
1,2-Dichloroethane	5	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	5	ND	ND	ND	ND	ND
Carbon tetrachloride	5	ND	ND	ND	ND	ND
Trichloroethene	5	ND	ND	ND	ND	ND
1,2-Dichloropropane	5	ND	ND	ND	ND	ND
Bromodichloromethane	5	ND	ND	ND	ND	ND
Dibromomethane	5	ND	ND	ND	ND	ND
Trans-1,3-Dichloropropene	5	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	5	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	5	ND	ND	ND	ND	ND
Dibromochloromethane	5	ND	ND	ND	ND	ND
2-Chloroethylvinyl ether	5	ND	ND	ND	ND	ND
Bromoform	5	ND	ND	ND	ND	ND
Tetrachloroethene	5	ND	ND	ND	ND	ND
Chlorobenzene	5	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	5	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	5	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	5	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	5	ND	ND	ND	ND	ND

MDL=Method Detection Limit; MB=Method Blank; ND=Not Detected (below DF x MDL); * obtained from higher dilution analysis.



Southland Technical Services, Inc.
Environmental Laboratories

2801 Telegraph Road, Suite L
Montebello, CA 90640

Phone (323) 888-0728
Fax (323) 888-1509

Client: Aqua Science Engineers
Project: Easy Mercedes

Lab Job No.: G90105
Matrix: Soil

Date Reported: 01-14-2000
Date Sampled: 12-29-1999

EPA 8010 Compounds by GC/MS. Reporting Unit: µg/kg (ppb)

DATE ANALYZED		01-05-00	01-05-00	01-05-00	01-05-00	01-05-00
DILUTION FACTOR		1	1	1	1	1
LAB SAMPLE I.D.			G0105-9	G0105-10	G0105-11	G0105-17
CLIENT SAMPLE I.D.		MB	BH-I 1.5'	BH-J 1.0'	BH-K 1.5'	Stockpile
COMPOUND	MDL					
Dichlorodifluoromethane	5	ND	ND	ND	ND	ND
Chloromethane	5	ND	ND	ND	ND	ND
Vinyl Chloride	5	ND	ND	ND	ND	ND
Bromomethane	5	ND	ND	ND	ND	ND
Chloroethane	5	ND	ND	ND	ND	ND
Trichlorofluoromethane	5	ND	ND	ND	ND	ND
1,1-Dichloroethene	5	ND	ND	ND	ND	ND
Methylene Chloride	5	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	5	ND	ND	ND	ND	ND
1,1-Dichloroethane	5	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	5	ND	ND	ND	ND	ND
Bromochloromethane	5	ND	ND	ND	ND	ND
Chloroform	5	ND	ND	ND	ND	ND
1,2-Dichloroethane	5	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	5	ND	ND	ND	ND	ND
Carbon tetrachloride	5	ND	ND	ND	ND	ND
Trichloroethene	5	ND	ND	ND	ND	ND
1,2-Dichloropropane	5	ND	ND	ND	ND	ND
Bromodichloromethane	5	ND	ND	ND	ND	ND
Dibromomethane	5	ND	ND	ND	ND	ND
Trans-1,3-Dichloropropene	5	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	5	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	5	ND	ND	ND	ND	ND
Dibromochloromethane	5	ND	ND	ND	ND	ND
2-Chloroethylvinyl ether	5	ND	ND	ND	ND	ND
Bromoform	5	ND	ND	ND	ND	ND
Tetrachloroethene	5	ND	ND	ND	ND	ND
Chlorobenzene	5	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	5	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	5	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	5	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	5	ND	ND	ND	ND	ND

MDL=Method Detection Limit; MB=Method Blank; ND=Not Detected (below DF × MDL); * obtained from higher dilution analysis.



Southland Technical Services, Inc.
Environmental Laboratories

1300 Telegraph Road, Suite L
Albany, CA 95640

Phone (323) 888-0728
Fax (323) 888-1509

01-14-2000

Client: Aqua Science Engineers
Project: Easy Mercedes
Project Site: 1075 2nd Street, Albany, CA
Matrix: Soil
Extraction Method: EPA 3550A
Batch No.: 0111-BNA

Lab Job No.: G00105
Date Sampled: 12-29-1999
Date Received: 01-05-2000
Date Extracted: 01-07-2000
Date Analyzed: 01-11-2000

Polynuclear Aromatic Hydrocarbons by EPA 8270B (GC/MS)
Reporting Units: mg/kg (ppm)

LAB SAMPLE I.D.	MB	G0105-9	G0105-17			
CLIENT SAMPLE I.D.		BH-1-2.5'	Stockpile			
DILUTION FACTOR	1	1	1			
COMPOUND	MDL					
Naphthalene	0.3	ND	ND	ND		
Acenaphthylene	0.3	ND	ND	ND		
Acenaphthene	0.3	ND	ND	ND		
Fluorene	0.3	ND	ND	ND		
Phenanthrene	0.3	ND	ND	ND		
Anthracene	0.3	ND	ND	ND		
Pyrene	0.3	ND	ND	ND		
Fluoranthene	0.3	ND	ND	1.13		
Benzo(a)anthracene	0.3	ND	ND	ND		
Chrysene	0.3	ND	ND	ND		
Benzo(b)fluoranthene	0.3	ND	ND	ND		
Benzo(k)fluoranthene	0.3	ND	ND	ND		
Benzo(a)pyrene	0.3	ND	ND	ND		
Indeno(1,2,3-cd)pyrene	0.3	ND	ND	ND		
Benzo(g,h,i)perylene	0.3	ND	ND	ND		
Diben(a,h)anthracene	0.3	ND	ND	ND		

MDL: Method Detection Limit.

RL: Reporting Limit (MDL x Dilution Factor.)

ND: Not Detected (Below RL).



Southland Technical Services, Inc.
Environmental Laboratories

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Phone (323) 888-0728
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Client: Aqua Science Engineers
Project: Easy Mercedes

Lab Job No.: G90105
Matrix: Soil

Date Reported: 01-14-2000
Date Sampled: 12-29-1999

EPA 8270B (Semi-VOCs by GC/MS, Page 1 of 2) Reporting Unit: mg/kg (ppm)

DATE ANALYZED		01-11-00	01-11-00			
DATE EXTRACTED		01-07-00	01-07-00			
EXTRACTION METHOD		3550A	3550A			
DILUTION FACTOR		1	1			
LAB SAMPLE I.D.			G0105-17			
CLIENT SAMPLE I.D.			Stockpile			
COMPOUND	MDL	MB				
Phenol	0.33	ND	ND			
Bis(2-chloroethyl) ether	0.33	ND	ND			
2-Chlorophenol	0.33	ND	ND			
1,3-Dichlorobenzene	0.33	ND	ND			
1,4-Dichlorobenzene	0.33	ND	ND			
Benzyl alcohol	0.66	ND	ND			
1,2-Dichlorobenzene	0.33	ND	ND			
2-Methylphenol (o-cresol)	0.33	ND	ND			
Bis(2-chloroisopropyl)ether	0.33	ND	ND			
N-Nitrosodi-n-propylamine	0.33	ND	ND			
4-Methylphenol (p-cresol)	0.33	ND	ND			
Hexachloroethane	0.33	ND	ND			
Nitrobenzene	0.33	ND	ND			
Isophorone	0.33	ND	ND			
2-Nitrophenol	0.33	ND	ND			
2,4-Dimethylphenol	0.33	ND	ND			
Bis(2-chloroethoxy)methane	0.33	ND	ND			
2,4-Dichlorophenol	0.33	ND	ND			
Benzoic acid	1.65	ND	ND			
1,2,4-Trichlorobenzene	0.33	ND	ND			
Naphthalene	0.33	ND	ND			
4-Chloroaniline	0.66	ND	ND			
Hexachlorobutadiene	0.33	ND	ND			
4-Chloro-3-methylphenol	0.66	ND	ND			
2-Methylnaphthalene	0.33	ND	ND			
Hexachlorocyclopentadiene	0.66	ND	ND			
2,4,6-Trichlorophenol	0.33	ND	ND			
2,4,5-Trichlorophenol	0.5	ND	ND			
2-Chloronaphthalene	0.33	ND	ND			
2-Nitroaniline	1.65	ND	ND			
Dimethylphthalate	0.33	ND	ND			



Southland Technical Services, Inc.
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Phone (323) 888-0728
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Client: Aqua Science Engineers
Project: Easy Mercedes

Lab Job No.: G90105
Matrix: Soil

Date Reported: 01-14-2000
Date Sampled: 12-29-1999

EPA 8270B (Semi-VOCs by GC/MS, Page 2 of 2) Reporting Unit: mg/kg(ppm)

COMPOUND	MDL	MB	Stockpile			
Acenaphthylene	0.33	ND	ND			
2,6-Dinitrotoluene	0.33	ND	ND			
3-Nitroaniline	1.65	ND	ND			
Acenaphthene	0.33	ND	ND			
2,4-Dinitrophenol	1.65	ND	ND			
Dibenzofuran	0.33	ND	ND			
4-Nitrophenol	1.65	ND	ND			
2,4-Dinitrotoluene	0.33	ND	ND			
Fluorene	0.33	ND	ND			
Diethylphthalate	0.33	ND	ND			
4-Chlorophenyl phenyl ether	0.33	ND	ND			
4-Nitroaniline	1.65	ND	ND			
4,6-Dinitro-2-methylphenol	1.65	ND	ND			
N-Nitrosodiphenylamine	0.33	ND	ND			
4-Bromophenyl- phenyl ether	0.33	ND	ND			
Hexachlorobenzene	0.33	ND	ND			
Pentachlorophenol	1.65	ND	ND			
Phenanthrene	0.33	ND	ND			
Anthracene	0.33	ND	ND			
Di-n-butylphthalate	0.33	ND	ND			
Fluoranthene	0.33	ND	1.13			
Pyrene	0.33	ND	ND			
Butyl benzylphthalate	0.33	ND	ND			
Benzo(a)anthracene	0.33	ND	ND			
3,3'-Dichlorobenzidine	0.66	ND	ND			
Chrysene	0.33	ND	ND			
Bis(2-Ethylhexyl)phthalate	0.33	ND	ND			
Di-n-octylphthalate	0.33	ND	ND			
Benzo(b)fluoranthene	0.33	ND	ND			
Benzo(k)fluoranthene	0.33	ND	ND			
Benzo(a)pyrene	0.33	ND	ND			
Indeno(1,2,3-cd)pyrene	0.33	ND	ND			
Dibenz(a,h)anthracene	0.33	ND	ND			
Benzo(g,h,i)perylene	0.33	ND	ND			

MB=Method Blank; MDL=Method Detection Limit, ND=Not Detected (below DF x MDL). * Result from a higher dilution analysis.



Southland Technical Services, Inc.
Environmental Laboratories

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01-14-2000

Client: Aqua Science Engineers
Project: Easy Mercedes
Project Site: 1075 2nd Street, Albany, CA
Matrix: Soil
Batch No.: 0105-T1

Lab Job No.: G00105
Date Sampled: 12-29-1999
Date Received: 01-05-2000
Date Analyzed: 01-05-2000

EPA 413.2 (Oil & grease)
Reporting Unit: mg/kg (ppm)

Sample ID	Lab ID	Oil & grease	Reporting Limit
Method Blank		ND	10
Stockpile	G0105-17	718	10

ND: Not Detected (at the specified limit)



Southland Technical Services, Inc.
Environmental Laboratories

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01-14-2000

Client: Aqua Science Engineers
Project: Easy Mercedes
Project Site: 1075 2nd Street, Albany, CA
Matrix: Soil
Batch No.: 0105-VOC1

Lab Job No.: G00105
Date Sampled: 12-29-1999
Date Received: 01-05-2000
Date Analyzed: 01-05-2000

Ethylene Glycol by GC/MS
Reporting Unit: mg/kg (ppm)

Sample ID	Lab ID	Ethylene Glycol	Reporting Limit
Method Blank		ND	10
BH-E 1.5'	G0105-5	ND	10
BH-F 3.5'	G0105-6	ND	10
BH-G 1.5'	G0105-7	ND	10
BH-I 2.5'	G0105-9	ND	10

ND: Not Detected (at the specified limit)



Southland Technical Services, Inc.
Environmental Laboratories

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Phone (323) 888-0728
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01-14-2000

Client: Aqua Science Engineers
Project: Easy Mercedes
Project Site: 1075 2nd Street, Albany, CA
Matrix: Soil
Batch No.: 0106-M1

Lab Job No.: G00105
Date Sampled: 12-29-1999
Date Received: 01-05-2000
Date Analyzed: 01-06-2000

LUFT Metals (TTLC)
Reporting Units: mg/kg (ppm)

Element	EPA Method	Method Blank	G0105-6	G0105-7	G0105-9	G0105-17	Reporting Limit
			BH-F 3.5'	BH-G 1.5'	BH-I-2.5'	Stockpile	
Cadmium (Cd)	7130	ND	ND	ND	ND	ND	2.5
Chromium (Cr)	7190	ND	21.7	8.1	7.2	37.9	2.5
Lead (Pb)	7420	ND	9.3	10.0	11.6	34.9	2.5
Nickel (Ni)	7520	ND	36.7	16	14.9	31.8	2.5
Zinc (Zn)	7950	ND	30.2	30	25.1	54.3	1.0

ND: Not Detected (at the specified limit)



Southland Technical Services, Inc.
Environmental Laboratories

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Merced, CA 95340

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01-14-2000

EPA 8270B
Batch QA/QC Report

Client: Aqua Science Engineers
Project: Easy Mercedes
Matrix: Soil
Batch No: 0111-BNA

Lab Job No.: G90105
Lab Sample ID: ST0111-1
Date Analyzed: 01-12-2000

MS/MSD Report
Unit: ppm

Compound	MB	Spike Conc.	MS	MSD	MS %Rec.	MSD %Rec.	% RPD	%RPD Accept. Limit	%Rec Accept. Limit
Phenol	ND	100	44.3	44.5	44.3	44.5	0.5	40	12-130
2-Chlorophenol	ND	100	93.0	97.2	93.0	97.2	4.4	40	24-134
1,4-Dichloro-benzene	ND	50	52.7	55.2	105.4	110.4	4.6	40	36-124
n-Nitroso-di-n-propylamine	ND	50	49.7	54.2	99.4	108.4	8.7	40	41-230
1,2,4-Trichloro benzene	ND	50	54.6	58.1	109.2	116.2	6.2	40	44-142
4-Chloro-3-methylphenol	ND	100	70.0	75.1	70.0	75.1	7.0	40	22-147
Acenaphthene	ND	50	51.2	51.5	102.4	103.0	0.6	40	47-145
4-Nitrophenol	ND	50	26.4	21.9	52.8	43.8	18.6	58	12-132
2,4-Dinitro-toluene	ND	50	29.2	32.9	58.4	65.8	11.9	40	39-139
Pentachloro-phenol	ND	100	130	132	130.0	132.0	1.5	51	14-176
Pyrene	ND	50	33.9	35.3	67.8	70.6	4.0	30	26-130

ND: Not Detected



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Environmental Laboratories

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Phone (323) 888-0728
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01-14-2000

EPA 8260
Batch QA/QC Report

Client: Aqua Science Engineers
Project: Easy Mercedes
Matrix:
Batch No: 0105-VOC

Lab Job No.: G90105
Lab Sample ID: ST0105-1
Date Analyzed: 01-05-2000

I. MS/MSD Report
Unit: ppb

Compound	Sample Conc.	Spike Conc.	MS	MSD	MS %Rec.	MSD %Rec	% RPD	%RPD Accept. Limit	%Rec Accept. Limit
I,1-Dichloroethene	ND	20	16.7	15.9	83.5	79.5	4.9	30	70-130
Benzene	ND	20	22.1	19.0	110.5	95.0	15.1	30	70-130
Trichloro-ethene	ND	20	21.5	21.2	107.5	106.0	1.4	30	70-130
Toluene	ND	20	18.8	18.3	94.0	91.5	2.7	30	70-130
Chlorobenzene	ND	20	21.1	19.9	105.5	99.5	5.9	30	70-130

II. LCS Result
Unit: ppb

Compound	LCS Report Value	True Value	Rec.%	Accept. Limit
I,1-Dichloroethene	18.3	20	91.5	80-120
Benzene	19.8	20	99.0	80-120
Trichloro-ethene	22.4	20	112.0	80-120
Toluene	20.1	20	100.5	80-120
Chlorobenzene	20.6	20	103.0	80-120

ND: Not Detected (at the specified limit)



Southland Technical Services, Inc.
Environmental Laboratories

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Phone (323) 888-0728
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01-14-2000

EPA 8020
Batch QA/QC Report

Client: Aqua Science Engineers
Project: Easy Mercedes
Matrix: Soil
Batch No: CA05-GS1

Lab Job No.: G00105
Lab Sample ID: G0105-17
Date Analyzed: 01-05-2000

I. MS/MSD Report
Unit: ppb

Compound	Sample Conc.	Spike Conc.	MS	MSD	MS %Rec.	MSD %Rec.	% RPD	%RPD Accept. Limit	%Rec Accept. Limit
Benzene	ND	100	77.8	83.6	77.8	83.6	7.2	30	70-130
Toluene	ND	100	88.8	98.4	88.8	98.4	10.3	30	70-130

II. LCS Result
Unit: ppb

Compound	LCS Report Value	True Value	Rec.%	Accept. Limit
Benzene	87.9	100	87.9	80-120
Toluene	103	100	103.0	80-120

ND: Not Detected (at the specified limit)



Southland Technical Services, Inc.
Environmental Laboratories

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Houston, TX 77061

Phone (323) 888-0728
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01-14-2000

EPA 8020
Batch QA/QC Report

Client: Aqua Science Engineers
Project: Easy Mercedes
Matrix: Water
Batch No: AA05-GW1

Lab Job No.: G00105
Lab Sample ID: G0105-12
Date Analyzed: 01-05-2000

I. MS/MSD Report
Unit: ppb

Compound	Sample Conc.	Spike Conc.	MS	MSD	MS %Rec	MSD %Rec.	% RPD	%RPD Accept. Limit	%Rec Accept. Limit
Benzene	ND	20	17.6	17.8	88.0	89.0	1.1	30	70-130
Toluene	ND	20	20.1	19.9	100.5	99.5	1.0	30	70-130

II. LCS Result
Unit: ppb

Compound	LCS Report Value	True Value	Rec.%	Accept. Limit
Benzene	17.7	20	88.5	80-120
Toluene	19.7	20	98.5	80-120

ND: Not Detected (at the specified limit)



Southland Technical Services, Inc.
Environmental Laboratories

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01-14-2000

**EPA 8015M (TPH)
Batch QA/QC Report**

Client: Aqua Science Engineers
Project: Easy Mercedes
Matrix: Soil
Batch No: EA05-DS1

Lab Job No.: G00105
Lab Sample ID: G0105-6
Date Analyzed: 01-05-2000

**I. MS/MSD Report
Unit: ppm**

Compound	Sample Conc.	Spike Conc.	MS	MSD	MS %Rec.	MSD %Rec.	% RPD	%RPD Accept. Limit	%Rec Accept. Limit
TPH-d	ND	200	234	250	117.0	125.0	6.6	30	70-130

**II. LCS Result
Unit: ppm**

Compound	LCS Report Value	True Value	Rec.%	Accept. Limit
TPH-d	214	200	107.0	80-120

ND: Not Detected (at the specified limit).



Southland Technical Services, Inc.
Environmental Laboratories

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01-14-2000

EPA 8015M (TPH)
Batch QA/QC Report

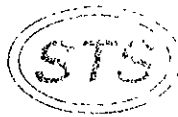
Client: Aqua Science Engineers
Project: Easy Mercedes
Matrix: Water
Batch No: EA05-DWI

Lab Job No.: G00105
Lab Sample ID: G0105-6
Date Analyzed: 01-05-2000

MS/MSD Report
Unit: ppm

Compound	Sample Conc.	Spike Conc.	MS	MSD	MS %Rec.	MSD %Rec.	% RPD	%RPD Accept. Limit	%Rec Accept. Limit
TPH-d	ND	20	22.2	21.2	111.0	106.0	4.6	30	70-130

ND: Not Detected (at the specified limit).



Southland Technical Services, inc.
Environmental Laboratories

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Phone (323) 888-0728
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01-14-2000

EPA 413.2 (Oil & grease)
Batch QA/QC Report

Client: Aqua Science Engineers
Project: Easy Mercedes
Matrix: Soil
Batch No: 0105-T1

Lab Job No.: G00105
Lab Sample ID: ST0105-1
Date Analyzed: 0105-2000

I. MS/MSD Report
Unit: ppm

Compound	Sample Conc.	Spike Conc.	MS	MSD	MS %Rec.	MSD %Rec.	% RPD	%RPD Accept. Limit	%Rec Accept. Limit
Oil & grease	ND	40	41	42	102.5	105.0	2.4	30	70-130

II. LCS Result
Unit: ppm

Compound	LCS Report Value	True Value	Rec.%	Accept. Limit
Oil & Grease	20.5	20	102.5	80-120

ND: Not Detected (at the specified limit).

APPENDIX E

Map of Alcan Site

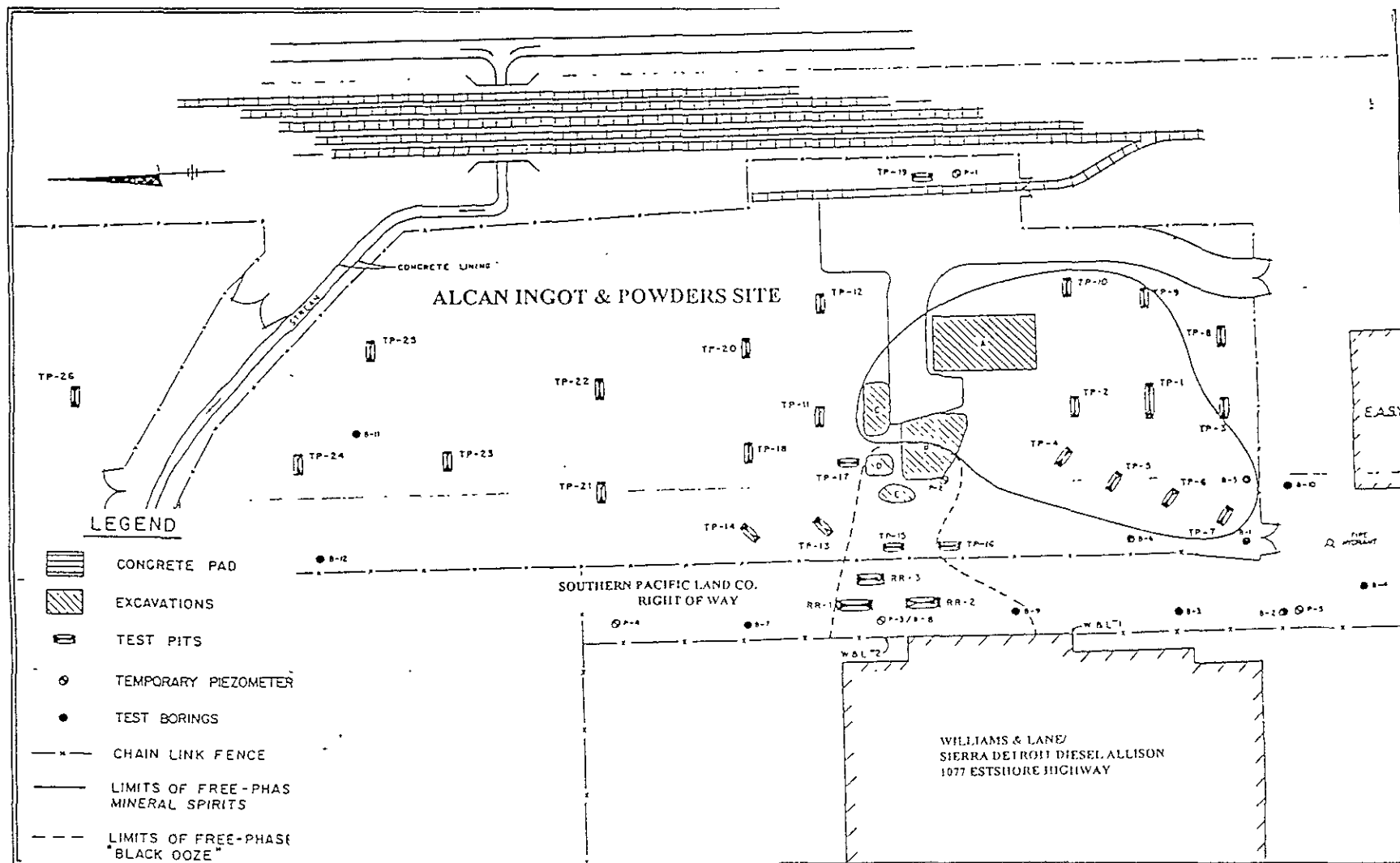


Figure 7. Site Map of the Former Alcan Ingot & Powders, Albany, California, Showing Extent of Contamination.