- Provide Table of Soil + GW analytical results
- Provide site plan w/ MW locations

ENGEO INCORPORATED
GEOTECHNICAL & ENVIRONMENTAL CONSULTANTS

GROUND-WATER MONITORING WELL CONSTRUCTION

DEL VALLE CONTINUATION HIGH SCHOOL

LIVERMORE, CALIFORNIA

June 2000

SUBMITTED

TO

LIVERMORE VALLEY JOINT UNIFIED SCHOOL DISTRICT

LIVERMORE, CALIFORNIA

PREPARED

BY

ENGEO INCORPORATED

PROJECT NO. 4729.3.002.02

JUNE 27, 2000

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ENVIRONMENTAL HEALTH SECTION
00 JUN 13 PM 5:13

Project No.
4729.3.002.02

June 27, 2000

Mr. Steve Waters
Livermore Valley Joint Unified School District
685 East Jack London Street
Livermore, CA 94550

Subject: Del Valle Continuation High School
2253 Fifth Street
Livermore, California

GROUND-WATER MONITORING WELL CONSTRUCTION

Dear Mr. Waters:

ENGEO Incorporated is pleased to present this report which provides details of ground-water monitoring well construction and ground-water sampling activities conducted at 2253 Fifth Street, in Livermore, California (Figure 1). The scope of services included:

- Observation of the drilling and construction of one 50-foot-deep, 2-inch-diameter ground-water monitoring well.
- Recovery of soil samples during drilling with organic vapor screening.
- Purging and sampling of the monitoring well
- Laboratory analysis of the soil and ground-water samples.

MONITORING WELL INSTALLATION AND DEVELOPMENT

The monitoring well was installed on April 25, 2000. The location of the well is shown on Figure 1. Prior to beginning the drilling activities, a well permit was obtained from the Alameda County Zone Seven Flood Control District. The borehole for the well was drilled to a depth of 50 feet using a Mobil B-53 drill rig equipped with an 8¼-inch hollow stem auger. Drilling was performed under the direction of an environmental geologist and logged in accordance with the Unified Soil Classification System.

LABORATORY ANALYSIS

The soil samples and ground-water samples were tested for polynuclear aromatic hydrocarbons, PCBs, (EPA 8270A), gasoline and BTEX (TPH 8015), diesel (EPA 8015M), and polychlorinated biphenyls (EPA 8082). No detectable compounds were reported from the laboratory testing. The Chromalab Inc. laboratory reports are provided as an attachment.

DISCUSSION

Based on the laboratory test results, there is no indication of impact to site ground water. The next scheduled sampling event is September 2000. A copy of this report should be provided to Ms. Eva Chu, with the Alameda County Health Services Department, and Ms. Danielle Stefani, with the Livermore/Pleasanton Fire Department.

We appreciate the opportunity to be of continued service to you on this project. If you have any questions, please contact us.

Very truly yours,

ENGEO INCORPORATED

William Fagundes
Staff Geologist
wf/jd:well

Reviewed by:

Shawn Munger
CHG 413

Attachments: Ground-Water Sampling Protocol
Soil Sampling Protocol
Laboratory Procedures
Figure 1 – Site Plan and Monitoring Well Location
Figure 2 – Boring Log
CCCHSD Well Permit
Monitoring Well Detail
Well Completion Report
Ground-Water Sampling Information
Chromalab, Inc. Laboratory Soil Test Results
Chromalab, Inc. Laboratory Ground-Water Test Results

Geologic logging of the soil boring samples and auger cuttings recorded approximately 18 feet of red-brown silty gravel, overlying a brown sandy to silty gravel. Ground water was encountered at approximately 34 feet below the ground surface at the time of drilling. Boring log information including soil descriptions and field PID screenings are provided as attachments to this report.

The monitoring well was constructed using a 2-inch-diameter Schedule 40 PVC casing with flush threaded couplings. The well was backfilled with #212 sand to one foot above the screened interval. A 24-inch-thick seal of bentonite pellets was placed on top of the sand filter pack. The remaining annular space was backfilled with a cement/bentonite grout. The well was capped with a locking plug. A flush mounted 8-inch-diameter manhole was installed above the well. The monitoring well construction detail is provided as an attachment.

After the cement/bentonite grout had set for approximately 72 hours, the well was developed using a surge block and bailer. Approximately 50 gallons of ground water were removed from the well during development. The purged water was stored on site in a 55-gallon DOT approved drum until the laboratory tests became available.

SOIL AND GROUND-WATER SAMPLING

Soil samples and auger cuttings were recovered during the well installation and were screened in the field using a Thermo Electron 580A photoionization detector (PID) to measure volatile compounds relative to the calibration standard (Isobutylene 100 ppm). Sample MW1-4 and MW1-7 were recovered near the base of the former tank location and at the top of the saturated zone respectively. Following recovery, the samples were sealed with Teflon, plastic end caps and duct tape. The samples were preserved in an ice-cooled chest and transported under documented chain of custody to Chromalab, Inc. in Pleasanton, California, for laboratory analysis. The drill cuttings were placed in a DOT approved 55-gallon drum, pending laboratory results.

The water sample was recovered on June 1, 2000, using a dedicated polyethylene bailer. The samples were decanted into pre-cleaned laboratory glassware and cooled in an ice chest until delivery under documented chain-of-custody to Chromalab Inc., in Pleasanton, California. Prior to the recovery of the water samples, the temperature, conductivity, total dissolved solids, and pH were measured (Table I).

Table I
FIELD ANALYSIS SUMMARY

Well Number	Matrix	Depth to Water (feet)	Temperature (°F)	Conductivity (µS)*	pH	Comments
MW-1	Water	25.84	68.7	708	6.40	Slightly turbid

GROUND-WATER SAMPLING PROTOCOL

Equipment Cleaning

Ground-water samples are recovered in pre-cleaned disposable polyethylene or Teflon bailers. The samples are then placed in pre-cleaned laboratory supplied glassware. Sample bottles and caps remain sealed until actual usage at the site. Before and during use at the site, equipment that comes in contact with the well or ground water is thoroughly cleaned with trisodium phosphate or Alquinox and rinsed with deionized or distilled water. This procedure occurs between each sampling event. Monitoring wells are sampled in approximate order of increasing contamination.

Prior to field activities ground-water and field monitoring equipment are calibrated using the appropriate calibration standards.

Water Level Measurements

Prior to checking for floating product, purging of the well and sampling, the depth to water is measured in each well using a sealed sounding tape of a scaled electric sounder. Water levels are recorded in the field to the nearest 0.01 foot from a common reference point on the well casing.

Floating Product Thickness

A field check for floating product is made with a clean and clear acrylic or Teflon bailer. Thickness of floating product as well as odor and color of the water is recorded. A clean nylon or cotton cord is used in each well. The cords are replaced with new cords prior to the sampling event.

Water Sampling Procedures

Prior to sampling of the ground water, minimums of four to ten well-casing volumes of water are removed from the well. The volume of water to be removed is calculated from the measurements of the water level, casing diameter, and the well depth. Water is removed by bailer, hand pump, or submersible electric pump. During purging, temperature, pH, dissolved solids, and oxidation-reduction potential are monitored for stabilization (±10%). Turbidity of the water is also noted either qualitatively or by means of a NTU instrument. A water sample is collected using a clean disposable polyethylene bailer when the appropriate volume has been purged or when the parameters have stabilized and a minimum of four well-casings have been purged. If the well is dewatered during purging, the well is allowed to recover to 80 percent of the static water level prior to sampling. If recovery exceeds a two-hour duration, the sample will be collected when a sufficient volume is available for the specific laboratory analyses.

Collection of Samples

Ground-water samples are collected in the appropriately sized pre-cleaned laboratory containers. Samples for volatile organic analyses are recovered in 40-milliliter vials lined with a Teflon septum. The volatile organic samples are recovered with zero headspace to prevent the loss of volatile constituents.

Ground-water samples for metal analyses are filtered in the field using a pressurized bailer system. Following filtering, the metal samples are acidified to pH < 2 with HNO_3 or HCL and preserved in a cooled ice chest.

The water sample containers are labeled with the appropriate sample number, location, project name and number, time of collection and the date. Chain-of-custody forms are logged with the same information, signed and accompany the samples. Samples are placed in an iced cooler and transported to a state-certified analytical laboratory. Travel and equipment blanks are submitted on a project-specific basis to provide for laboratory and field QA/QC.

SOIL SAMPLING PROTOCOL

Soil Sampling by Drill Rig

Review and confirmation of the proposed boring locations and special instructions are discussed with the client prior to sampling. Underground Service Alert (USA) and/or private utility locaters are contacted to mark utilities in the area before beginning the drilling activities.

Equipment used in drilling is steam cleaned prior to its arrival at the site. Equipment includes, but is not limited to, augers, bits, drilling rod, samplers and sample liners. The sampler is thoroughly cleaned with trisodium phosphate or Alquinox and rinsed with distilled water between sampling intervals.

Each exploratory boring is drilled with a truck-mounted drilling rig using either solid flight or hollow stem augers. The boring is advanced to the desired sampling depth and the sampler is then lowered to the bottom of the hole. The sampler is driven a maximum of 18 inches by a 140-pound, rig-operated hammer falling 30 inches. The number of blows required to drive the sampler the final 12 inches is recorded on the boring log.

The samplers commonly used are either a California-type sampler (3-inch or 2.5-inch) or a standard penetrometer (2-inch). If samples are collected for laboratory analysis, a California sampler equipped with brass or stainless steel liners is used.

Upon retrieval, the sampler is disassembled into its component parts. One or more of the liners are selected for chemical analysis. The selected liner(s) are sealed with Teflon sheets, plastic caps, and tape. The samples are then labeled, logged on the chain-of-custody and preserved in a cooled ice chest.

Each soil sample is classified in the field with the aid of the Unified Soil Classification System and a Munsell soil color chart. Soil descriptions are detailed on the boring log.

Soil samples may also be field-screened for volatile organic vapor with a photoionization detector (PID) calibrated to a 100 ppm isobutylene standard. Soil samples or auger cuttings are placed into polyethylene bags or glass mason jars and allowed to accumulate (PID) headspace vapors for a period of five to ten minutes (temperature dependent). The instrument probe is inserted into the bags or mason jars and the maximum reading is recorded.

Samples are held in the possession of ENGEO personnel until transfer to the analytical laboratory. The transfer is accomplished in one of three ways; on-site pick up by the laboratory, pick up by the laboratory at ENGEO offices; or delivery to the laboratory by ENGEO. Each transfer of responsibility is documented on a chain-of-custody log that accompanies the sample(s).

LABORATORY PROCEDURES

Laboratory Contractor Selection

The laboratories selected to perform the analytical work are certified by the California State Department of Health Services as qualified to perform the selected analyses. The selected laboratories are reviewed by ENGEO to provide that an adequate quality control program is in place and certified by the State of California.

Chain-of-Custody Control

The following procedures are used during sampling and analytical activities to provide chain-of-custody control during transfer of samples from collection through delivery to the laboratory.

- Contact with the laboratory prior to the sampling date to attain the appropriate containers for the desired analysis and to alert the laboratory to the date of sampling and sample pick up.
- Documentation of the field sampling activities are logged.
- Each sample is clearly and completely labeled for identification.
- Chain-of-custody record documenting the transfer and possession of samples is maintained.
- A laboratory analysis request sheet for documenting analyses to be performed is completed.

Samples Containers

Sample containers vary with each type of analytical parameter. Selected container types and materials are non-reactive with the sample and the particular analytical parameter being tested. Sample containers are cleaned and sterilized by the certified laboratory according to the EPA protocol for the individual analyses.

Sample Preservation and Shipment

Various preservatives are used by the certified laboratory to retard chemical changes in the samples. The samples are stored on ice after collection. Sample shipment from ENGEO to laboratories performing the selected analyses routinely occurs within 24 hours of sample

collection. Sample holding times designated by DHS and the EPA for the specific analyses are observed.

Analytical Procedures

The analysis of ground-water and soil samples is conducted in accordance with accepted quantitative analytical procedures. The following publications are considered the primary references for ground-water sample analysis, and the contracts with the laboratories analyzing the samples stipulate that the methods set out in these publications be used. These procedures used are periodically updated by federal and state agencies.

Standard Methods for the Examination of Water and Wastewater, 16th Edition, American Public Health Association, et al., 1985.

Methods for Chemical Analysis of Water and Wastes, United States Environmental Protection Agency, 600/4-79-020, March 1979.

Test Methods for Evaluation of Solid Waste: Physical/Chemical Methods, United States Environmental Protection Agency, SW-846, 1982.

Methods for Organic Chemical Analysis of Municipal and Industrial Wastewater, United States Environmental Protection Agency, 600/4-82-057, 1982.

Practical Guide for Ground-Water Sampling, United States Environmental Protection Agency, 600/2-85/104.

RCRA Ground-Water Monitoring Technical Enforcement Guidance Document, United States Environmental Protection Agency, September 1986.

Leaking Underground Tank Field Manual, State of California Leaking Underground Fuel Tank Task Force; October 1989.

Tri-Regional Board Staff Recommendations For Preliminary Evaluation and Investigation of Underground Tank Sites, State of California Regional Water Quality Control Board (Regions 1, 2, and 5), August 10, 1990.

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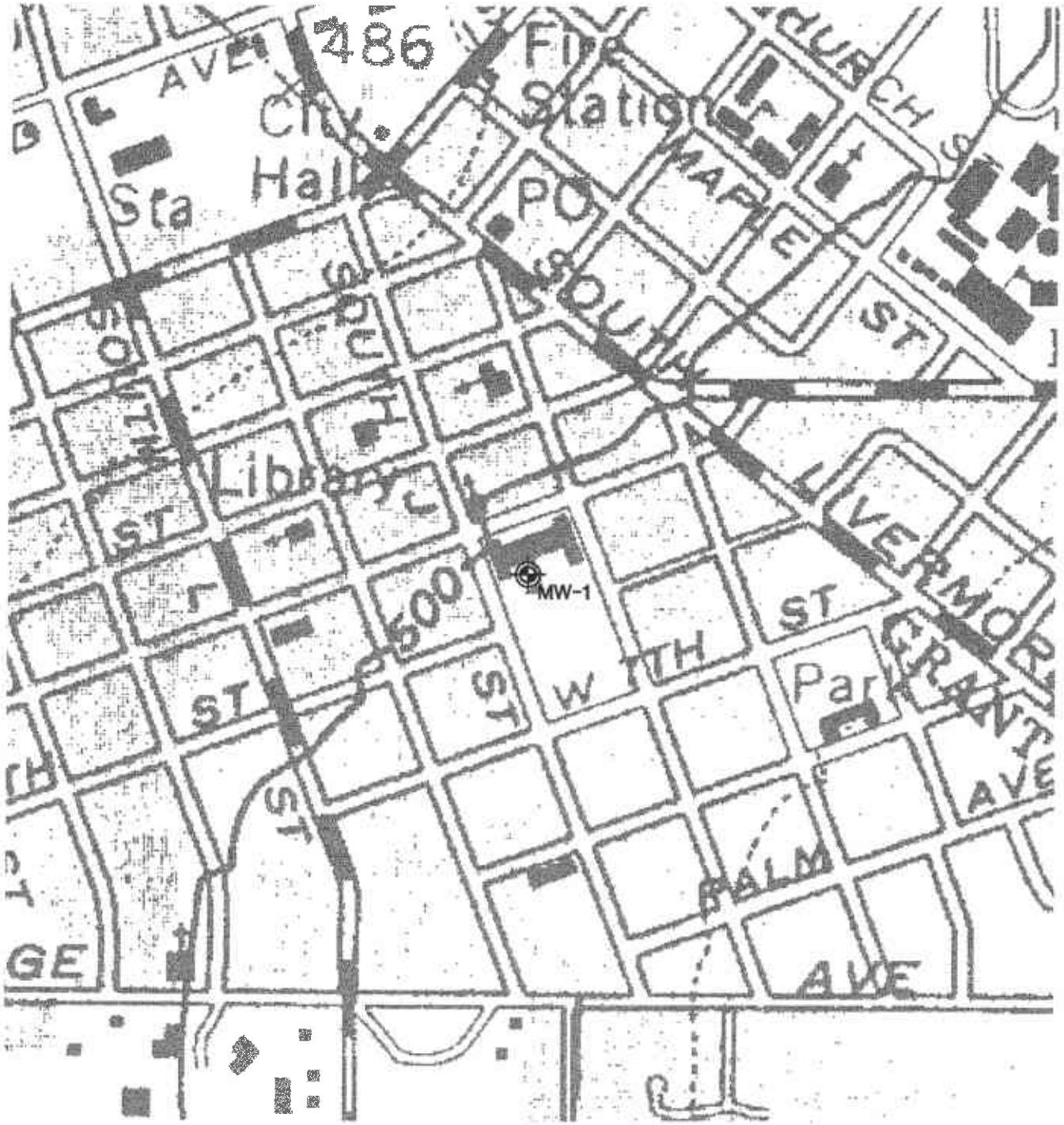


EXPLANATION

MW-1 ⊕ APPROXIMATE LOCATION OF MONITORING WELL

N

BASE MAP SOURCE: U.S.G.S.

N.T.S.

ENGEO INCORPORATED

SITE PLAN & MONITORING WELL LOCATION
DEL VALLE CONTINUATION HIGH SCHOOL
LIVERMORE, CALIFORNIA

PROJECT NO.: 4729.3.002.02
DATE: JULY 2000
DRAWN BY: CHECKED BY:

FIGURE NO. 1

DATE OF BORING: April 25, 2000

SURFACE ELEVATION: Approx. 505 feet (154 meters)

DEPTH (FEET)	DEPTH (METERS)	SAMPLE NUMBER	LOG, LOCATION AND TYPE OF SAMPLE	DESCRIPTION	BLOWS/FT	OVM READING P.I.D. (10.0eV) (Parts Per million)	IN PLACE DRY UNIT WEIGHT (PCF)	IN PLACE MOIST. CONTENT % DRY WEIGHT
0				Paved, playground area. (asphalt)				
				SILTY GRAVEL (GM), brown, loose, subrounded. (FILL)				
5	1							
	2	MW1-1		Brick red color, loose, subrounded. (FILL)	36	0		
10	3	MW-2		Brick red color, loose, subrounded. (FILL)	83	0		
				Abundant bricks. (FILL)				
	4							
15		MW-3			64	0		
	5							
20	6	MW-4		SANDY GRAVEL with CLAY (GC), brown, subrounded to subangular, dense, increasing moisture, increase clay.	50	0		
	7							
25		MW-5		SILTY CLAY (CL), brown, moist, stiff.	17	0		
	8							
30	9							

OVMMET 4729.GPJ 7/18/00

ENGEO INCORPORATED

DEL VALLE HIGH SCHOOL

LIVERMORE, CALIFORNIA

BORING NO.: MW-1

DATE: July 2000

PROJ. NO.: 4729.3.002.02

CHECKED BY

FIGURE NO. 2

DATE OF BORING: April 25, 2000

SURFACE ELEVATION: Approx. 505 feet (154 meters)

DEPTH (FEET)	DEPTH (METERS)	SAMPLE NUMBER	LOG, LOCATION AND TYPE OF SAMPLE	DESCRIPTION	BLOWS/FT	OVM READING P.I.D. (10.0eV) (Parts Per million)	IN PLACE DRY UNIT WEIGHT (PCF)	IN PLACE MOIST. CONTENT % DRY WEIGHT
30		MW-6		SANDY CLAY (CL), brown, with trace gravel, moist, medium stiff, increasing moist, increased sand.	39	0		
	10			▽ Ground water encountered.				
35		MW-7		SANDY GRAVEL (GC), brown, dense, saturated.	89	0		
	11							
	12							
40		MW-8		GRAVELLY SAND (SP), brown, very saturated, loose.	50/3"	0		
	13							
				No recovery.				
45								
	14	MW-9		Gravelly SAND (SP), very saturated, loose.	55	0		
	15							
50		MW-10			43	0		
	16			Bottom of boring at approximately 50 $^{1}/_{2}$ feet. Ground water encountered at 34 $^{1}/_{2}$ feet during drilling.				
55	17							
	18							
60								

OVMMET 4729.GPJ 7/18/00

ENGEO INCORPORATED

DEL VALLE HIGH SCHOOL

LIVERMORE, CALIFORNIA

BORING NO.: MW-1

DATE: July 2000

PROJ. NO.: 4729.3.002.02

CHECKED BY

FIGURE NO. 2

ZONE 7 WATER AGENCY

5997 PARKSIDE DRIVE PLEASANTON, CALIFORNIA 94588-5127 VOICE (925) 484-2600 X235
FAX (925) 462-3914

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

LOCATION OF PROJECT Del Valle High School
2253 5th Street - Livermore

California Coordinates Source _____ ft Accuracy± _____ ft.
CCN _____ ft. CCE _____ ft.
APN 47-50-1

CLIENT
Name L.V.J.U.S.D.
Address 685 E. Jack London Blvd. Phone 606-3319
City Livermore, CA Zip 94550

APPLICANT
Name Shawn Minger - ENGEO Incorporated
Fax 925-838-7425
Address 2401 Crow Canyon Rd #200 Phone 925-838-2600
City San Ramon, CA Zip 94583

TYPE OF PROJECT

Well Construction		Geotechnical Investigation	
Cathodic Protection	☐	General	☐
Water Supply	☐	Contamination	☐
Monitoring	X	Well Destruction	☐

PROPOSED WATER SUPPLY WELL USE

New Domestic	☐	Replacement Domestic	☐
Municipal	☐	Irrigation	☐
Industrial	☐	Other _____	☐

DRILLING METHOD:

Mud Rotary	☐	Air Rotary	☐	Auger	X
Cable	☐	Other	☐		

DRILLER'S LICENSE NO 482390

WELL PROJECTS
Drill Hole Diameter 6 1/4 in. Maximum
Casing Diameter 2 in. Depth 50 ft.
Surface Seal Depth 20 ft Number 4

GEOTECHNICAL PROJECTS
Number of Borings _____ Maximum
Hole Diameter _____ in Depth _____ ft.

ESTIMATED STARTING DATE 4/25/00
ESTIMATED COMPLETION DATE 4/25/00

I hereby agree to comply with all requirements of this permit and Alameda County Ordinance No. 73-68.
APPLICANT'S SIGNATURE _____ Date 4/19/00

FOR OFFICE

PERMIT NUMBER 20062
WELL NUMBER _____
APN 097 0050 001 00

PERMIT CONDITIONS

Circled Permit Requirements Apply

(A.) GENERAL
1 A permit application should be submitted so as to arrive at the Zone 7 office five days prior to proposed starting date
2 Submit to Zone 7 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

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.
3 An access port at least 0.5 inches in diameter is required on the wellhead for water level measurements.
4 A sample port is required on the discharge pipe near the wellhead

(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.

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, tremied cement grout shall be used in place of compacted cuttings.
E. CATHODIC. Fill hole above anode zone with concrete placed by tremie
F. WELL DESTRUCTION. See attached.
G. SPECIAL CONDITIONS

Approved Wyman Hong Date 4/27/00
Wyman Hong

8/6/99

BORING/WELL NO. MW-1

MONITORING WELL DETAIL

PROJECT NUMBER 4729.3.002.02

PROJECT NAME DEL VALLE CONTINUATION HIGH SCHOOL

COUNTY ALAMEDA

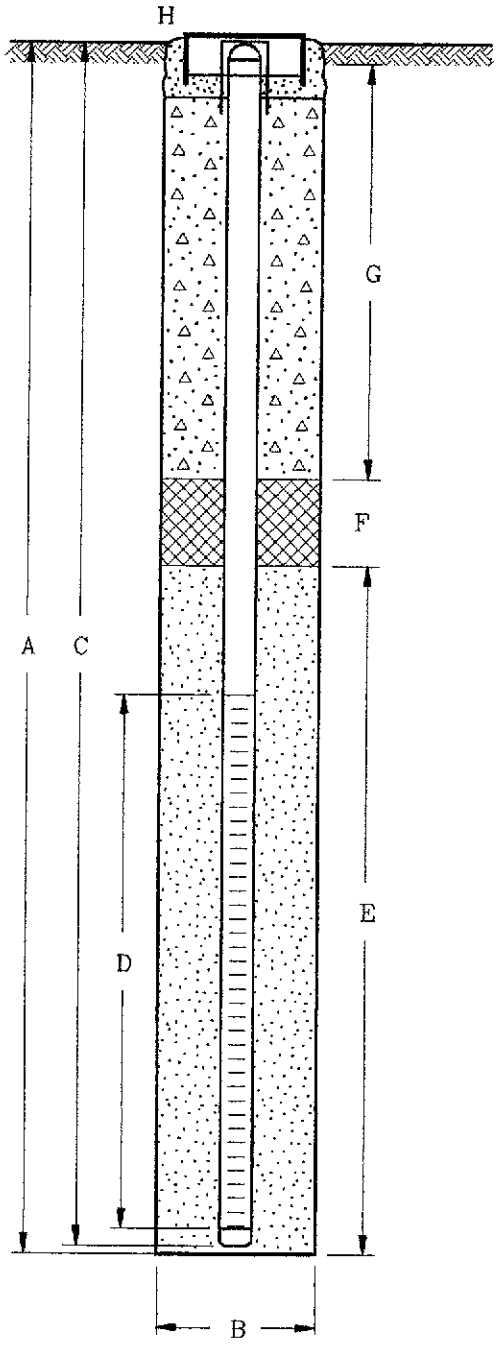
WELL PERMIT NO. _____

DATE OF INSTALLATION APRIL 25, 2000

TOP OF CASING ELEV. 5" BELOW GROUND SURFACE

GROUND SURFACE ELEV. ~505'

DATUM MEAN SEA LVEL



EXPLORATORY BORING

A. TOTAL DEPTH 50.5 FT.

B. DIAMETER 8.25 IN.

DRILLING METHOD HOLLOW-STEM AUGER

WELL CONSTRUCTION

C. CASING LENGTH 50 FT.

MATERIAL SCHEDULE 40 PVC

DIAMETER 2 IN.

D. SLOTTED INTERVAL LENGTH 22.5 FT.

SLOTTED INTERVAL FROM 28 TO 50.5 FT.

SLOT SIZE 0.01 IN.

E. FILTER PACK INTERVAL 28 TO 50.5 FT.

FILTER MATERIAL #212 SAND

F. FILTER PACK SEAL 26 TO 28 FT.

SEAL MATERIAL BENTONITE

G. GROUT INTERVAL 0 TO 26 FT.

GROUT MATERIAL CEMENT/BENTONITE

H. _____

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CONFIDENTIAL

STATE OF CALIFORNIA-DWR
WELL COMPLETION REPORT
(WELL LOGS)

REMOVED

ENGEO INCORPORATED
GROUND-WATER SAMPLING INFORMATION

Job Name: Del Valle Continuation High School	Job Number: 4729.3.002.02
Location: Livermore	Date: June 1, 2000
Client: Livermore Valley Joint Unified School District	By: Bill Fagundes

WELL INFORMATION

Well Number: MW-1	Diameter (in): 2 inches
Total Depth (ft): 49.1	Screen Length: 22.5
Depth to Water (ft): 26.44 (TOC)	Casing Volume (gal): 3.7

PURGING INFORMATION

Bailer: Pump: X Rate: 1.2 gpm	Time: (init./fin) 1538/1551
Volume Removed (gal): 16	No. of Casing Vol: 4.32

Time	Volume Removed (Gal.)	Total Casing Volumes	Temp°F	Conc (µmohs/cm)	TDS	pH	Comments
1538							Initial. Slightly turbid
1541	4	1.08	72.3	740	365	6.53	Slightly turbid
1545	8	2.16	68.7	711	355	6.56	Slightly turbid
1548	12	3.24	69.3	711	355	6.47	Slightly turbid
1551	16	4.32	68.7	708	354	6.39	Slightly turbid

SAMPLE INFORMATION

Bailer: X Pump: Rate: (gpm)	
Decon Procedure: TSP: X OR Alquinox:	Distilled H_2O
Disposable	Other

Sample	Time	Size	Presv.	Test	Comments
MW-1	1601	5L and 40ml	Ice and HCl	EPA(8015, 8015M, 8270A, 8082) for gasoline, BTEX, diesel, PNAs, and PCBs)	Slightly turbid samples

4729.3.002.02

May 1?

CHAIN OF CUSTODY RECORD

5784?

PROJECT NUMBER	PROJECT NAME
4729.3002.02	DEL VALLE HIGH SCHOOL

SAMPLED BY: (SIGNATURE)/(PRINT) Robert Murray / Robert Murray

SAMPLE NUMBER	DATE	TIME	MATRIX	NUMBER OF CONTAINERS	CONTAINER SIZE	PRESERVATIVE	TPH - GASOLINE (EPA 8015/5030)	TPH - DIESEL (EPA 8015/3550/3510)	PURGEABLE AROMATICS BTEX (EPA 602, 8020)	PURGEABLE HALOCARBONS (EPA 601, 8010)	VOLATILE ORGANICS (EPA 624, 8240)	BASE/NEUTRALS, ACIDS (EPA 625,8270)	TOTAL OIL & GREASE (SMWW 5520 F)	OC PESTICIDES/PCB (EPA 608, 8080)	OP PESTICIDES (EPA 614/8140)	TITLE 26 METALS (17)	PRIORITY METALS (13)	BTEX	PCB - EPA 8082	PNA - EPA 8270	
MW1-4	4/26/00	10:58	SOIL	1	2"x6"	ICE	X	X										X	X	X	
MW1-5	"	11:11	"	"	"	"	X	X										X	X	X	
MW1-6	"	11:31	"	"	"	"	X	X										X	X	X	
MW1-7	"	12:00	"	"	"	"	X	X										X	X	X	

REMARKS
REQUIRED DETECTION LIMITS

Please report TPH diesel as Diesel and Heating Oil

Please HOLD until Mondy May 1, 2000

RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)	RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)
Robert Murray					
RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)	RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)
RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE/TIME	REMARKS	
	04/28/00 1625	Thus Rowley		10 day T.A.T	

ENGEO INCORPORATED
2401 CROW CANYON ROAD • SUITE 200
SAN RAMON, CALIFORNIA 94583-1545
(925)838-1600 • FAX(925)838-7425
www.engeo.com

DISTRIBUTION: ORIGINAL ACCOMPANIES SHIPMENT; COPY TO PROJECT FIELD FILES

Engeo, Inc.
2401 Crow Canyon Rd., Suite 200
San Ramon, CA 94583-1545

Attn.: Mr. Robert Murray

Project: 4729.3.002.02
Del Valle High School

Dear Mr. Murray,

Attached is our report for your samples received on Friday April 28, 2000
This report has been reviewed and approved for release. Reproduction of this report is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after May 28, 2000 unless you have requested otherwise. We appreciate the opportunity to be of service to you.
If you have any questions, please call me at (925) 484-1919. You can also contact me via email.
My email address is: asalimpour@chromalab.com

Sincerely,

Afsaneh Salimpour

CHROMALAB, INC.
Environmental Services (SDB)

Submission #: 2000-05-0010

PNA analysis by 8270A

Engeo, Inc.
Attn: Robert Murray
Project #: 4729.3.002.02

2401 Crow Canyon Rd., Suite 200
San Ramon, CA 94583-1545
Phone: (925) 838-1600 Fax: (925) 838-7425
Project: Del Valle High School

Samples Reported

Sample ID	Matrix	Date Sampled	Lab #
MW1-4	Soil	04/26/2000 10:58	1
MW1-7	Soil	04/26/2000 12:00	4

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-05-0010

To: **Engeo, Inc.**
Attn.: Robert Murray

Test Method: 8270A
Prep Method: 3550/8270A

PNA analysis by 8270A

Sample ID:	**MW1-4**	Lab Sample ID:	**2000-05-0010-001**
Project:	4729.3.002.02 Del Valle High School	Received:	04/28/2000 16:25
		Extracted:	05/02/2000 07:35
Sampled:	04/26/2000 10:58	QC-Batch:	2000/05/02-01.11
Matrix:	Soil		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Naphthalene	ND	0.10	mg/Kg	1.00	05/04/2000 06:30	
Acenaphthylene	ND	0.10	mg/Kg	1.00	05/04/2000 06:30	
Acenaphthene	ND	0.10	mg/Kg	1.00	05/04/2000 06:30	
Fluorene	ND	0.10	mg/Kg	1.00	05/04/2000 06:30	
Phenanthrene	ND	0.10	mg/Kg	1.00	05/04/2000 06:30	
Anthracene	ND	0.10	mg/Kg	1.00	05/04/2000 06:30	
Fluoranthene	ND	0.10	mg/Kg	1.00	05/04/2000 06:30	
Pyrene	ND	0.10	mg/Kg	1.00	05/04/2000 06:30	
Benzo(a)anthracene	ND	0.10	mg/Kg	1.00	05/04/2000 06:30	
Chrysene	ND	0.10	mg/Kg	1.00	05/04/2000 06:30	
Benzo(b)fluoranthene	ND	0.10	mg/Kg	1.00	05/04/2000 06:30	
Benzo(k)fluoranthene	ND	0.20	mg/Kg	1.00	05/04/2000 06:30	
Benzo(a)pyrene	ND	0.050	mg/Kg	1.00	05/04/2000 06:30	
Indeno(1,2,3-c,d)pyrene	ND	0.20	mg/Kg	1.00	05/04/2000 06:30	
Dibenzo(a,h)anthracene	ND	0.20	mg/Kg	1.00	05/04/2000 06:30	
Benzo(g,h,i)perylene	ND	0.20	mg/Kg	1.00	05/04/2000 06:30	
Surrogate(s)						
Nitrobenzene-d5	70.9	23-120	%	1.00	05/04/2000 06:30	
2-Fluorobiphenyl	82.4	30-115	%	1.00	05/04/2000 06:30	
p-Terphenyl-d14	88.6	18-137	%	1.00	05/04/2000 06:30	

CHROMALAB, INC.
Environmental Services (SDB)

Submission #: 2000-05-0010

To: **Engeo, Inc.**
Attn.: Robert Murray

Test Method: 8270A
Prep Method: 3550/8270A

PNA analysis by 8270A

Sample ID:	**MW1-7**	Lab Sample ID:	**2000-05-0010-004**
Project:	4729.3.002.02 Del Valle High School	Received:	04/28/2000 16:25
		Extracted:	05/02/2000 07:35
Sampled:	04/26/2000 12:00	QC-Batch:	2000/05/02-01.11
Matrix:	Soil		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Naphthalene	ND	0.10	mg/Kg	1.00	05/03/2000 11:31	
Acenaphthylene	ND	0.10	mg/Kg	1.00	05/03/2000 11:31	
Acenaphthene	ND	0.10	mg/Kg	1.00	05/03/2000 11:31	
Fluorene	ND	0.10	mg/Kg	1.00	05/03/2000 11:31	
Phenanthrene	ND	0.10	mg/Kg	1.00	05/03/2000 11:31	
Anthracene	ND	0.10	mg/Kg	1.00	05/03/2000 11:31	
Fluoranthene	ND	0.10	mg/Kg	1.00	05/03/2000 11:31	
Pyrene	ND	0.10	mg/Kg	1.00	05/03/2000 11:31	
Benzo(a)anthracene	ND	0.10	mg/Kg	1.00	05/03/2000 11:31	
Chrysene	ND	0.10	mg/Kg	1.00	05/03/2000 11:31	
Benzo(b)fluoranthene	ND	0.10	mg/Kg	1.00	05/03/2000 11:31	
Benzo(k)fluoranthene	ND	0.20	mg/Kg	1.00	05/03/2000 11:31	
Benzo(a)pyrene	ND	0.050	mg/Kg	1.00	05/03/2000 11:31	
Indeno(1,2,3-c,d)pyrene	ND	0.20	mg/Kg	1.00	05/03/2000 11:31	
Dibenzo(a,h)anthracene	ND	0.20	mg/Kg	1.00	05/03/2000 11:31	
Benzo(g,h,i)perylene	ND	0.20	mg/Kg	1.00	05/03/2000 11:31	
Surrogate(s)						
Nitrobenzene-d5	68.4	23-120	%	1.00	05/03/2000 11:31	
2-Fluorobiphenyl	76.6	30-115	%	1.00	05/03/2000 11:31	
p-Terphenyl-d14	70.2	18-137	%	1.00	05/03/2000 11:31	

To: **Engeo, Inc.**
Attn.: Robert Murray

Test Method: 8270A
Prep Method: 3550/8270A

Batch QC Report
PNA analysis by 8270A

Method Blank | **Soil** | **QC Batch # 2000/05/02-01.11**

MB: 2000/05/02-01.11-001 | Date Extracted: 05/02/2000 07:35

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Naphthalene	ND	0.10	mg/Kg	05/02/2000 17:50	
Acenaphthylene	ND	0.10	mg/Kg	05/02/2000 17:50	
Acenaphthene	ND	0.10	mg/Kg	05/02/2000 17:50	
Fluorene	ND	0.10	mg/Kg	05/02/2000 17:50	
Phenanthrene	ND	0.10	mg/Kg	05/02/2000 17:50	
Anthracene	ND	0.10	mg/Kg	05/02/2000 17:50	
Fluoranthene	ND	0.10	mg/Kg	05/02/2000 17:50	
Pyrene	ND	0.10	mg/Kg	05/02/2000 17:50	
Benzo(a)anthracene	ND	0.10	mg/Kg	05/02/2000 17:50	
Chrysene	ND	0.10	mg/Kg	05/02/2000 17:50	
Benzo(b)fluoranthene	ND	0.10	mg/Kg	05/02/2000 17:50	
Benzo(k)fluoranthene	ND	0.20	mg/Kg	05/02/2000 17:50	
Benzo(a)pyrene	ND	0.02	mg/Kg	05/02/2000 17:50	
Indeno(1,2,3-c,d)pyrene	ND	0.20	mg/Kg	05/02/2000 17:50	
Dibenzo(a,h)anthracene	ND	0.20	mg/Kg	05/02/2000 17:50	
Benzo(g,h,i)perylene	ND	0.20	mg/Kg	05/02/2000 17:50	
Surrogate(s)					
Nitrobenzene-d5	57.2	23-120	%	05/02/2000 17:50	
2-Fluorobiphenyl	69.2	30-115	%	05/02/2000 17:50	
p-Terphenyl-d14	71.6	18-137	%	05/02/2000 17:50	

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-05-0010

To: **Engeo, Inc.**

Attn: Robert Murray

Test Method: 8270A

Prep Method: 3550/8270A

Batch QC Report

PNA analysis by 8270A

Laboratory Control Spike (LCS/LCSD) **Soil** **QC Batch # 2000/05/02-01.11**

LCS: 2000/05/02-01.11-002 Extracted: 05/02/2000 07:35 Analyzed 05/02/2000 18:35

LCSD: 2000/05/02-01.11-003 Extracted: 05/02/2000 07:35 Analyzed 05/02/2000 19:20

Compound	Conc. [mg/Kg]		Exp.Conc. [mg/Kg]		Recovery [%]		RPD	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recovery	RPD	LCS	LCSD
Acenaphthene	0.780	0.770	1.000	1.000	78.0	77.0	1.3	49-102	30		
Pyrene	0.890	0.880	1.000	1.000	89.0	88.0	1.1	25-117	35		
Surrogate(s)											
Nitrobenzene-d5	14.0	13.7	25	25	56.0	54.8		23-120			
2-Fluorobiphenyl	17.1	16.7	25	25	68.4	66.8		30-115			
p-Terphenyl-d14	19.1	18.4	25	25	76.4	73.6		18-137			

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-05-0010

Gas/BTEX

Engeo, Inc.

Attn: Robert Murray

Project #: 4729.3.002.02

2401 Crow Canyon Rd., Suite 200
San Ramon, CA 94583-1545

Phone: (925) 838-1600 Fax: (925) 838-7425

Project: Del Valle High School

Samples Reported

Sample ID	Matrix	Date Sampled	Lab #
MW1-4	Soil	04/26/2000 10:58	1
MW1-7	Soil	04/26/2000 12:00	4

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-05-0010

To: **Engeo, Inc.**

Attn.: Robert Murray

Test Method: 8020
8015M

Prep Method: 5030

Gas/BTEX

Sample ID:	**MW1-4**	Lab Sample ID:	**2000-05-0010-001**
Project:	4729.3.002.02 Del Valle High School	Received:	04/28/2000 16:25
		Extracted:	05/02/2000 00:30
Sampled:	04/26/2000 10:58	QC-Batch:	2000/05/01-01.02
Matrix:	Soil		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	05/02/2000 00:30	
Benzene	ND	0.0050	mg/Kg	1.00	05/02/2000 00:30	
Toluene	ND	0.0050	mg/Kg	1.00	05/02/2000 00:30	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	05/02/2000 00:30	
Xylene(s)	ND	0.0050	mg/Kg	1.00	05/02/2000 00:30	
Surrogate(s)						
Trifluorotoluene	93.4	53-125	%	1.00	05/02/2000 00:30	
4-Bromofluorobenzene-FID	59.7	58-124	%	1.00	05/02/2000 00:30	

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-05-0010

To: **Engeo, Inc.**

Attn.: Robert Murray

Test Method: 8020
8015M

Prep Method: 5030

Gas/BTEX

Sample ID:	**MW1-7**	Lab Sample ID:	**2000-05-0010-004**
Project:	4729.3.002.02 Del Valle High School	Received:	04/28/2000 16:25
		Extracted:	05/05/2000 15:48
Sampled:	04/26/2000 12:00	QC-Batch:	2000/05/05-01.04
Matrix:	Soil		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	05/05/2000 15:48	
Benzene	ND	0.0050	mg/Kg	1.00	05/05/2000 15:48	
Toluene	ND	0.0050	mg/Kg	1.00	05/05/2000 15:48	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	05/05/2000 15:48	
Xylene(s)	ND	0.0050	mg/Kg	1.00	05/05/2000 15:48	
Surrogate(s)						
Trifluorotoluene	70.0	53-125	%	1.00	05/05/2000 15:48	
Trifluorotoluene-FID	63.8	53-125	%	1.00	05/05/2000 15:48	

To: **Engeo, Inc.**

Attn.: Robert Murray

Test Method: 8020
8015M

Prep Method: 5030

Batch QC Report
Gas/BTEX

Method Blank | **Soil** | **QC Batch # 2000/05/01-01.02**

MB: 2000/05/01-01.02-001

Date Extracted: 05/01/2000 06:34

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	05/01/2000 06:34	
Benzene	ND	0.0050	mg/Kg	05/01/2000 06:34	
Toluene	ND	0.0050	mg/Kg	05/01/2000 06:34	
Ethyl benzene	ND	0.0050	mg/Kg	05/01/2000 06:34	
Xylene(s)	ND	0.0050	mg/Kg	05/01/2000 06:34	
Surrogate(s)					
Trifluorotoluene	112.0	53-125	%	05/01/2000 06:34	
4-Bromofluorobenzene-FID	112.0	58-124	%	05/01/2000 06:34	

To: **Engeo, Inc.**

Attn.: Robert Murray

Test Method: 8020
8015M

Prep Method: 5030

Batch QC Report
Gas/BTEX

Method Blank | **Soil** | **QC Batch # 2000/05/05-01.04**

MB: 2000/05/05-01.04-001 | Date Extracted: 05/05/2000 06:19

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	05/05/2000 06:19	
Benzene	ND	0.0050	mg/Kg	05/05/2000 06:19	
Toluene	ND	0.0050	mg/Kg	05/05/2000 06:19	
Ethyl benzene	ND	0.0050	mg/Kg	05/05/2000 06:19	
Xylene(s)	ND	0.0050	mg/Kg	05/05/2000 06:19	
Surrogate(s)					
Trifluorotoluene	88.8	53-125	%	05/05/2000 06:19	
4-Bromofluorobenzene-FID	73.0	58-124	%	05/05/2000 06:19	

To: **Engeo, Inc.**

Attn: Robert Murray

Test Method: 8020
8015M

Prep Method: 5030

Batch QC Report

Gas/BTEX

Laboratory Control Spike (LCS/LCSD) **Soil** **QC Batch # 2000/05/01-01.02**

LCS: 2000/05/01-01.02-002 Extracted: 05/01/2000 07:05 Analyzed 05/01/2000 07:05

LCSD: 2000/05/01-01.02-003 Extracted: 05/01/2000 07:36 Analyzed 05/01/2000 07:36

Compound	Conc. [mg/Kg]		Exp.Conc. [mg/Kg]		Recovery [%]		RPD	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recovery	RPD	LCS	LCSD
Gasoline	0.489	0.487	0.500	0.500	97.8	97.4	0.4	75-125	35		
Benzene	0.105	0.0949	0.1000	0.1000	105.0	94.9	10.1	77-123	35		
Toluene	0.0994	0.0945	0.1000	0.1000	99.4	94.5	5.1	78-122	35		
Ethyl benzene	0.0939	0.0920	0.1000	0.1000	93.9	92.0	2.0	70-130	35		
Xylene(s)	0.278	0.275	0.300	0.300	92.7	91.7	1.1	75-125	35		
Surrogate(s)											
Trifluorotoluene	504	452	500	500	100.8	90.4		53-125			
4-Bromofluorobenzene-FI	526	528	500	500	105.2	105.6		58-124			

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-05-0010

To: **Engeo, Inc.**

Attn: Robert Murray

Test Method: 8020
8015M

Prep Method: 5030

Batch QC Report

Gas/BTEX

Laboratory Control Spike (LCS/LCSD) **Soil** **QC Batch # 2000/05/05-01.04**

LCS: 2000/05/05-01.04-002 Extracted: 05/05/2000 06:47 Analyzed 05/05/2000 06:47

LCSD: 2000/05/05-01.04-003 Extracted: 05/05/2000 07:16 Analyzed 05/05/2000 07:16

Compound	Conc. [mg/Kg]		Exp.Conc. [mg/Kg]		Recovery [%]		RPD	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recovery	RPD	LCS	LCSD
Gasoline	0.460	0.430	0.500	0.500	92.0	86.0	6.7	75-125	35		
Benzene	0.0960	0.0875	0.1000	0.1000	96.0	87.5	9.3	77-123	35		
Toluene	0.0935	0.0872	0.1000	0.1000	93.5	87.2	7.0	78-122	35		
Ethyl benzene	0.0935	0.0883	0.1000	0.1000	93.5	88.3	5.7	70-130	35		
Xylene(s)	0.265	0.250	0.300	0.300	88.3	83.3	5.8	75-125	35		
Surrogate(s)											
Trifluorotoluene	475	430	500	500	95.0	86.0		53-125			
4-Bromofluorobenzene-FI	422	406	500	500	84.4	81.2		58-124			

PCBs - EPA 8082

Engeo, Inc.

Attn: Robert Murray

Project #: 4729.3.002.02

2401 Crow Canyon Rd., Suite 200
San Ramon, CA 94583-1545

Phone: (925) 838-1600 Fax: (925) 838-7425

Project: Del Valle High School

Samples Reported

Sample ID	Matrix	Date Sampled	Lab #
MW1-4	Soil	04/26/2000 10:58	1
MW1-7	Soil	04/26/2000 12:00	4

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-05-0010

To: **Engeo, Inc.**
Attn.: Robert Murray

Test Method: 8082
Prep Method: 3550/8082

PCBs - EPA 8082

Sample ID:	**MW1-4**	Lab Sample ID:	**2000-05-0010-001**
Project:	4729.3.002.02 Del Valle High School	Received:	04/28/2000 16:25
		Extracted:	05/02/2000 09:30
Sampled:	04/26/2000 10:58	QC-Batch:	2000/05/02-01.14
Matrix:	Soil		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Aroclor 1016	ND	0.050	mg/Kg	1.00	05/02/2000 21:50	
Aroclor 1221	ND	0.050	mg/Kg	1.00	05/02/2000 21:50	
Aroclor 1232	ND	0.050	mg/Kg	1.00	05/02/2000 21:50	
Aroclor 1242	ND	0.050	mg/Kg	1.00	05/02/2000 21:50	
Aroclor 1248	ND	0.050	mg/Kg	1.00	05/02/2000 21:50	
Aroclor 1254	ND	0.050	mg/Kg	1.00	05/02/2000 21:50	
Aroclor 1260	ND	0.050	mg/Kg	1.00	05/02/2000 21:50	
Surrogate(s)						
2,4,5,6-Tetrachloro-m-xylene	88.6	50-125	%	1.00	05/02/2000 21:50	
Decachlorobiphenyl	84.6	46-142	%	1.00	05/02/2000 21:50	

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-05-0010

To: **Engeo, Inc.**
Attn.: Robert Murray

Test Method: 8082
Prep Method: 3550/8082

PCBs - EPA 8082

Sample ID:	**MW1-7**	Lab Sample ID:	**2000-05-0010-004**
Project:	4729.3.002.02 Del Valle High School	Received:	04/28/2000 16:25
		Extracted:	05/02/2000 09:30
Sampled:	04/26/2000 12:00	QC-Batch:	2000/05/02-01.14
Matrix:	Soil		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Aroclor 1016	ND	0.050	mg/Kg	1.00	05/02/2000 22:22	
Aroclor 1221	ND	0.050	mg/Kg	1.00	05/02/2000 22:22	
Aroclor 1232	ND	0.050	mg/Kg	1.00	05/02/2000 22:22	
Aroclor 1242	ND	0.050	mg/Kg	1.00	05/02/2000 22:22	
Aroclor 1248	ND	0.050	mg/Kg	1.00	05/02/2000 22:22	
Aroclor 1254	ND	0.050	mg/Kg	1.00	05/02/2000 22:22	
Aroclor 1260	ND	0.050	mg/Kg	1.00	05/02/2000 22:22	
Surrogate(s)						
2,4,5,6-Tetrachloro-m-xylene	88.2	50-125	%	1.00	05/02/2000 22:22	
Decachlorobiphenyl	85.8	46-142	%	1.00	05/02/2000 22:22	

To: **Engeo, Inc.**
Attn.: Robert Murray

Test Method: 8082
Prep Method: 3550/8082

Batch QC Report
PCBs - EPA 8082

Method Blank | **Soil** | **QC Batch # 2000/05/02-01.14**

MB: 2000/05/02-01.14-001 | Date Extracted: 05/02/2000 09:30

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Aroclor 1016	ND	0.05	mg/Kg	05/02/2000 16:35	
Aroclor 1221	ND	0.05	mg/Kg	05/02/2000 16:35	
Aroclor 1232	ND	0.05	mg/Kg	05/02/2000 16:35	
Aroclor 1242	ND	0.05	mg/Kg	05/02/2000 16:35	
Aroclor 1248	ND	0.05	mg/Kg	05/02/2000 16:35	
Aroclor 1254	ND	0.05	mg/Kg	05/02/2000 16:35	
Aroclor 1260	ND	0.05	mg/Kg	05/02/2000 16:35	
Surrogate(s)					
2,4,5,6-Tetrachloro-m-xylene	89.2	50-125	%	05/02/2000 16:35	
Decachlorobiphenyl	86.0	46-142	%	05/02/2000 16:35	

To: **Engeo, Inc.**
Attn: Robert Murray

Test Method: 8082
Prep Method: 3550/8082

Batch QC Report

PCBs - EPA 8082

Laboratory Control Spike (LCS/LCSD) **Soil** **QC Batch # 2000/05/02-01.14**

LCS: 2000/05/02-01.14-002 Extracted: 05/02/2000 09:30 Analyzed 05/02/2000 17:07
LCSD: 2000/05/02-01.14-003 Extracted: 05/02/2000 09:30 Analyzed 05/02/2000 17:38

Compound	Conc. [mg/Kg]		Exp.Conc. [mg/Kg]		Recovery [%]		RPD	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recovery	RPD	LCS	LCSD
Aroclor 1016	0.0715	0.0674	0.0667	0.0667	107.2	101.0	6.0	65-135	30		
Aroclor 1260	0.0630	0.0620	0.0667	0.0667	94.5	93.0	1.6	65-135	30		
Surrogate(s)											
2,4,5,6-Tetrachloro-m-xyl	43.1	43.0	50	50	86.2	86.0		50-125			
Decachlorobiphenyl	43.5	42.7	50	50	87.0	85.4		46-142			

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-05-0010

To: **Engeo, Inc.**

Attn.: Robert Murray

Test Method: 8082

Prep Method: 3550/8082

Batch QC Report

PCBs - EPA 8082

Matrix Spike (MS / MSD) **Soil** **QC Batch # 2000/05/02-01.14**

Sample ID: **MW1-4** Lab Sample ID: 2000-05-0010-001

MS: 2000/05/02-01.14-004 Extracted: 05/02/2000 09:30 Analyzed: 05/02/2000 18:10 Dilution: 1.0

MSD: 2000/05/02-01.14-005 Extracted: 05/02/2000 09:30 Analyzed: 05/02/2000 18:41 Dilution: 1.0

Compound	Conc. [mg/Kg]			Exp.Conc. [mg/Kg]		Recovery [%]		RPD	Ctrl. Limits [%]		Flags	
	MS	MSD	Sample	MS	MSD	MS	MSD	[%]	Recovery	RPD	MS	MSD
Aroclor 1016	0.0684	0.0677	ND	0.0666	0.0666	102.7	101.7	1.0	65-135	30		
Aroclor 1260	0.0614	0.0620	ND	0.0666	0.0666	92.2	93.1	1.0	65-135	30		
Surrogate(s)												
2,4,5,6-Tetrachloro-m-xyl	39.9	42.5		50	50	79.8	85.0		50-125			
Decachlorobiphenyl	43.2	43.7		50	50	86.4	87.4		46-142			

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-05-0010

Total Extractable Petroleum Hydrocarbons (TEPH)

Engeo, Inc.

Attn: Robert Murray

Project #: 4729.3.002.02

2401 Crow Canyon Rd., Suite 200
San Ramon, CA 94583-1545

Phone: (925) 838-1600 Fax: (925) 838-7425

Project: Del Valle High School

Samples Reported

Sample ID	Matrix	Date Sampled	Lab #
MW1-4	Soil	04/26/2000 10:58	1
MW1-7	Soil	04/26/2000 12:00	4

To: **Engeo, Inc.**
Attn.: Robert Murray

Test Method: 8015M
Prep Method: 3550/8015M

Total Extractable Petroleum Hydrocarbons (TEPH)

Sample ID:	**MW1-4**	Lab Sample ID:	**2000-05-0010-001**
Project:	4729.3.002.02 Del Valle High School	Received:	04/28/2000 16:25
		Extracted:	05/05/2000 06:59
Sampled:	04/26/2000 10:58	QC-Batch:	2000/05/05-01.10
Matrix:	Soil		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	ND	1.0	mg/Kg	1.00	05/06/2000 04:19	
Surrogate(s)						
o-Terphenyl	93.0	60-130	%	1.00	05/06/2000 04:19	

To: **Engeo, Inc.**
Attn.: Robert Murray

Test Method: 8015M
Prep Method: 3550/8015M

Total Extractable Petroleum Hydrocarbons (TEPH)

Sample ID:	**MW1-7**	Lab Sample ID:	**2000-05-0010-004**
Project:	4729.3.002.02 Del Valle High School	Received:	04/28/2000 16:25
		Extracted:	05/05/2000 06:59
Sampled:	04/26/2000 12:00	QC-Batch:	2000/05/05-01.10
Matrix:	Soil		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	ND	1.0	mg/Kg	1.00	05/06/2000 04:58	
Surrogate(s)						
o-Terphenyl	91.2	60-130	%	1.00	05/06/2000 04:58	

To: **Engeo, Inc.**
Attn.: Robert Murray

Test Method: 8015M
Prep Method: 3550/8015M

Batch QC Report
Total Extractable Petroleum Hydrocarbons (TEPH)

Method Blank **Soil** **QC Batch # 2000/05/05-01.10**

MB: 2000/05/05-01.10-001 Date Extracted: 05/05/2000 06:59

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Diesel	ND	1	mg/Kg	05/05/2000 14:34	
Surrogate(s)					
o-Terphenyl	81.0	60-130	%	05/05/2000 14:34	

To: **Engeo, Inc.**

Attn: Robert Murray

Test Method: 8015M

Prep Method: 3550/8015M

Batch QC Report

Total Extractable Petroleum Hydrocarbons (TEPH)

Laboratory Control Spike (LCS/LCSD) **Soil** **QC Batch # 2000/05/05-01.10**

LCS: 2000/05/05-01.10-002 Extracted: 05/05/2000 06:59 Analyzed 05/05/2000 15:53

LCSD: 2000/05/05-01.10-003 Extracted: 05/05/2000 06:59 Analyzed 05/05/2000 16:32

Compound	Conc. [mg/Kg]		Exp.Conc. [mg/Kg]		Recovery [%]		RPD	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recovery	RPD	LCS	LCSD
Diesel	33.5	37.8	41.7	41.7	80.3	90.6	12.1	60-130	25		
Surrogate(s)											
o-Terphenyl	18.3	23.1	20.0	20.0	91.5	115.5		60-130			

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-05-0010

To: **Engeo, Inc.**

Attn.: Robert Murray

Test Method: 8015M

Prep Method: 3550/8015M

Batch QC Report

Total Extractable Petroleum Hydrocarbons (TEPH)

Matrix Spike (MS / MSD) **Soil** **QC Batch # 2000/05/05-01.10**

Sample ID: **MW1-7** Lab Sample ID: 2000-05-0010-004

MS: 2000/05/05-01.10-004 Extracted: 05/05/2000 06:59 Analyzed: 05/06/2000 01:43 Dilution: 1.0

MSD: 2000/05/05-01.10-005 Extracted: 05/05/2000 06:59 Analyzed: 05/06/2000 02:22 Dilution: 1.0

Compound	Conc. [mg/Kg]			Exp.Conc. [mg/Kg]		Recovery [%]		RPD	Ctrl. Limits [%]		Flags	
	MS	MSD	Sample	MS	MSD	MS	MSD	[%]	Recovery	RPD	MS	MSD
Diesel	32.7	32.7	NA	41.7	40.8	78.4	80.1	2.1	60-130	25		
Surrogate(s)												
o-Terphenyl	18.9	18.9		20.0	20.0	94.5	94.5		60-130			

CHROMALAB, INC.
Environmental Services (SDB)

Submission #: 2000-06-0038
Date: June 13, 2000

Engeo, Inc.
2401 Crow Canyon Rd., Suite 200
San Ramon, CA 94583-1545

Attn.: Mr. Keith Nowell

Project: 4729.3.002.02
Del Valle High School

Dear Mr. Nowell,

Attached is our report for your samples received on Thursday June 1, 2000
This report has been reviewed and approved for release. Reproduction of this report is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after July 1, 2000 unless you have requested otherwise. We appreciate the opportunity to be of service to you.
If you have any questions, please call me at (925) 484-1919. You can also contact me via email.
My email address is: asalimpour@chromalab.com

Sincerely,

Afsaneh Salimpour

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-06-0038

PNA analysis by 8270A

Engeo, Inc.

2401 Crow Canyon Rd., Suite 200
San Ramon, CA 94583-1545

Attn: Keith Nowell

Phone: (925) 838-1600 Fax: (925) 838-7425

Project #: 4729.3.002.02

Project: Del Valle High School

Samples Reported

Sample ID	Matrix	Date Sampled	Lab #
MW-1	Water	06/01/2000 16:00	1

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-06-0038

To: **Engeo, Inc.**
Attn.: Keith Nowell

Test Method: 8270A
Prep Method: 3510/8270A

PNA analysis by 8270A

Sample ID: **MW-1**
Lab Sample ID: **2000-06-0038-001**

Project: 4729.3.002.02
Del Valle High School

Received: 06/01/2000 17:20

Extracted: 06/05/2000 12:49

Sampled: 06/01/2000 16:00
QC-Batch: 2000/06/05-02.11

Matrix: Water

Sample/Analysis Flag rl (See Legend & Note section)

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Naphthalene	ND	2.3	ug/L	1.16	06/06/2000 10:33	
Acenaphthylene	ND	2.3	ug/L	1.16	06/06/2000 10:33	
Acenaphthene	ND	2.3	ug/L	1.16	06/06/2000 10:33	
Fluorene	ND	5.8	ug/L	1.16	06/06/2000 10:33	
Phenanthrene	ND	2.3	ug/L	1.16	06/06/2000 10:33	
Anthracene	ND	2.3	ug/L	1.16	06/06/2000 10:33	
Fluoranthene	ND	2.3	ug/L	1.16	06/06/2000 10:33	
Pyrene	ND	2.3	ug/L	1.16	06/06/2000 10:33	
Benzo(a)anthracene	ND	2.3	ug/L	1.16	06/06/2000 10:33	
Chrysene	ND	2.3	ug/L	1.16	06/06/2000 10:33	
Benzo(b)fluoranthene	ND	2.3	ug/L	1.16	06/06/2000 10:33	
Benzo(k)fluoranthene	ND	2.3	ug/L	1.16	06/06/2000 10:33	
Benzo(a)pyrene	ND	2.3	ug/L	1.16	06/06/2000 10:33	
Indeno(1,2,3-c,d)pyrene	ND	2.3	ug/L	1.16	06/06/2000 10:33	
Dibenzo(a,h)anthracene	ND	2.3	ug/L	1.16	06/06/2000 10:33	
Benzo(g,h,i)perylene	ND	2.3	ug/L	1.16	06/06/2000 10:33	
Surrogate(s)						
Nitrobenzene-d5	34.3	35-114	%	1.16	06/06/2000 10:33	sl
2-Fluorobiphenyl	38.4	43-116	%	1.16	06/06/2000 10:33	sl
p-Terphenyl-d14	69.3	33-141	%	1.16	06/06/2000 10:33	

To: **Engeo, Inc.**
Attn.: Keith Nowell

Test Method: 8270A
Prep Method: 3510/8270A

Batch QC Report
PNA analysis by 8270A

Method Blank | **Water** | **QC Batch # 2000/06/05-02.11**

MB: 2000/06/05-02.11-001 | Date Extracted: 06/05/2000 12:49

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Naphthalene	ND	2.0	ug/L	06/06/2000 18:52	
Acenaphthylene	ND	2.0	ug/L	06/06/2000 18:52	
Acenaphthene	ND	2.0	ug/L	06/06/2000 18:52	
Fluorene	ND	5.0	ug/L	06/06/2000 18:52	
Phenanthrene	ND	2.0	ug/L	06/06/2000 18:52	
Anthracene	ND	2.0	ug/L	06/06/2000 18:52	
Fluoranthene	ND	2.0	ug/L	06/06/2000 18:52	
Pyrene	ND	2.0	ug/L	06/06/2000 18:52	
Benzo(a)anthracene	ND	2.0	ug/L	06/06/2000 18:52	
Chrysene	ND	2.0	ug/L	06/06/2000 18:52	
Benzo(b)fluoranthene	ND	2.0	ug/L	06/06/2000 18:52	
Benzo(k)fluoranthene	ND	2.0	ug/L	06/06/2000 18:52	
Benzo(a)pyrene	ND	2.0	ug/L	06/06/2000 18:52	
Indeno(1,2,3-c,d)pyrene	ND	2.0	ug/L	06/06/2000 18:52	
Dibenzo(a,h)anthracene	ND	2.0	ug/L	06/06/2000 18:52	
Benzo(g,h,i)perylene	ND	2.0	ug/L	06/06/2000 18:52	
Surrogate(s)					
Nitrobenzene-d5	74.0	35-114	%	06/06/2000 18:52	
2-Fluorobiphenyl	76.4	43-116	%	06/06/2000 18:52	
p-Terphenyl-d14	88.8	33-141	%	06/06/2000 18:52	

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-06-0038

To: **Engeo, Inc.**
Attn: Keith Nowell

Test Method: 8270A
Prep Method: 3510/8270A

Batch QC Report

PNA analysis by 8270A

Laboratory Control Spike (LCS/LCSD) **Water** **QC Batch # 2000/06/05-02.11**

LCS: 2000/06/05-02.11-002 Extracted: 06/05/2000 12:49 Analyzed 06/06/2000 13:06
LCSD: 2000/06/05-02.11-003 Extracted: 06/05/2000 12:49 Analyzed 06/06/2000 13:50

Compound	Conc. [ug/L]		Exp.Conc. [ug/L]		Recovery [%]		RPD	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recovery	RPD	LCS	LCSD
Acenaphthene	22.1	23.8	30.0	30.0	73.7	79.3	7.3	56-118	30		
Pyrene	23.5	26.0	30.0	30.0	78.3	86.7	10.2	52-115	35		
Surrogate(s)											
Nitrobenzene-d5	15.4	17.2	25	25	61.6	68.8		35-114			
2-Fluorobiphenyl	16.1	17.8	25	25	64.4	71.2		43-116			
p-Terphenyl-d14	21.5	23.7	25	25	86.0	94.8		33-141			

To: **Engeo, Inc.**
Attn:Keith Nowell

Test Method: 8270A
Prep Method: 3510/8270A

Legend & Notes

PNA analysis by 8270A

Analysis Flags

rl

Reporting limits raised due to reduced sample size.

Analyte Flags

sl

Surrogate recoveries were lower than QC limit due to matrix interference, confirmed by reanalysis.

Diesel

Engeo, Inc.

Attn: Keith Nowell

Project #: 4729.3.002.02

2401 Crow Canyon Rd., Suite 200
San Ramon, CA 94583-1545

Phone: (925) 838-1600 Fax: (925) 838-7425

Project: Del Valle High School

Samples Reported

Sample ID	Matrix	Date Sampled	Lab #
MW-1	Water	06/01/2000 16:00	1

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-06-0038

To: **Engeo, Inc.**
Attn.: Keith Nowell

Test Method: 8015m
Prep Method: 3510/8015M

Diesel

Sample ID:	**MW-1**	Lab Sample ID:	**2000-06-0038-001**
Project:	4729.3.002.02 Del Valle High School	Received:	06/01/2000 17:20
		Extracted:	06/07/2000 06:26
Sampled:	06/01/2000 16:00	QC-Batch:	2000/06/07-01.10
Matrix:	Water		

Sample/Analysis Flag rl (See Legend & Note section)

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	ND	100	ug/L	2.00	06/13/2000 07:28	
Surrogate(s)						
o-Terphenyl	64.2	60-130	%	2.00	06/13/2000 07:28	

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-06-0038

To: **Engeo, Inc.**
Attn.: Keith Nowell

Test Method: 8015m
Prep Method: 3510/8015M

Batch QC Report
Diesel

Method Blank | **Water** | **QC Batch # 2000/06/07-01.10**

MB: 2000/06/07-01.10-001 | Date Extracted: 06/07/2000 06:26

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Diesel	ND	50	ug/L	06/10/2000 09:20	
Surrogate(s)					
o-Terphenyl	111.5	60-130	%	06/10/2000 09:20	

To: **Engeo, Inc.**
Attn: Keith Nowell

Test Method: 8015m
Prep Method: 3510/8015M

Batch QC Report

Diesel

Laboratory Control Spike (LCS/LCSD) **Water** **QC Batch # 2000/06/07-01.10**

LCS: 2000/06/07-01.10-002 Extracted: 06/07/2000 06:26 Analyzed 06/11/2000 15:34
LCSD: 2000/06/07-01.10-003 Extracted: 06/07/2000 06:26 Analyzed 06/11/2000 16:13

Compound	Conc. [ug/L]		Exp.Conc. [ug/L]		Recovery [%]		RPD	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recovery	RPD	LCS	LCSD
Diesel	1250	1240	1250	1250	100.0	99.2	0.8	60-130	25		
Surrogate(s)											
o-Terphenyl	20.5	20.5	20.0	20.0	102.5	102.5		60-130			

To: **Engeo, Inc.**
Attn:Keith Nowell

Test Method: 8015m
Prep Method: 3510/8015M

Legend & Notes

Diesel

Analysis Flags

rl

Reporting limits raised due to reduced sample size.

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-06-0038

Gas/BTEX

Engeo, Inc.	2401 Crow Canyon Rd., Suite 200 San Ramon, CA 94583-1545
Attn: Keith Nowell	Phone: (925) 838-1600 Fax: (925) 838-7425
Project #: 4729.3.002.02	Project: Del Valle High School

Samples Reported

Sample ID	Matrix	Date Sampled	Lab #
MW-1	Water	06/01/2000 16:00	1

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-06-0038

To: **Engeo, Inc.**

Attn.: Keith Nowell

Test Method: 8015M
8020

Prep Method: 5030

Gas/BTEX

Sample ID:	**MW-1**	Lab Sample ID:	**2000-06-0038-001**
Project:	4729.3.002.02 Del Valle High School	Received:	06/01/2000 17:20
		Extracted:	06/08/2000 20:03
Sampled:	06/01/2000 16:00	QC-Batch:	2000/06/08-01.01
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	06/08/2000 20:03	
Benzene	ND	0.50	ug/L	1.00	06/08/2000 20:03	
Toluene	ND	0.50	ug/L	1.00	06/08/2000 20:03	
Ethyl benzene	ND	0.50	ug/L	1.00	06/08/2000 20:03	
Xylene(s)	ND	0.50	ug/L	1.00	06/08/2000 20:03	
Surrogate(s)						
Trifluorotoluene	67.2	58-124	%	1.00	06/08/2000 20:03	
4-Bromofluorobenzene-FID	79.0	50-150	%	1.00	06/08/2000 20:03	

To: **Engeo, Inc.**

Attn.: Keith Nowell

Test Method: 8015M
8020

Prep Method: 5030

Batch QC Report
Gas/BTEX

Method Blank | **Water** | **QC Batch # 2000/06/08-01.01**

MB: 2000/06/08-01.01-001 | Date Extracted: 06/08/2000 10:48

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Gasoline	ND	50	ug/L	06/08/2000 10:48	
Benzene	ND	0.5	ug/L	06/08/2000 10:48	
Toluene	ND	0.5	ug/L	06/08/2000 10:48	
Ethyl benzene	ND	0.5	ug/L	06/08/2000 10:48	
Xylene(s)	ND	0.5	ug/L	06/08/2000 10:48	
Surrogate(s)					
Trifluorotoluene	86.6	58-124	%	06/08/2000 10:48	
4-Bromofluorobenzene-FID	77.2	50-150	%	06/08/2000 10:48	

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-06-0038

To: **Engeo, Inc.**

Test Method: 8015M
8020

Attn: Keith Nowell

Prep Method: 5030

Batch QC Report

Gas/BTEX

Laboratory Control Spike (LCS/LCSD) **Water** **QC Batch # 2000/06/08-01.01**

LCS: 2000/06/08-01.01-002 Extracted: 06/08/2000 11:23 Analyzed 06/08/2000 11:23

LCSD: 2000/06/08-01.01-003 Extracted: 06/08/2000 11:58 Analyzed 06/08/2000 11:58

Compound	Conc. [ug/L]		Exp.Conc. [ug/L]		Recovery [%]		RPD	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recovery	RPD	LCS	LCSD
Gasoline	470	481	500	500	94.0	96.2	2.3	75-125	20		
Benzene	89.8	91.3	100.0	100.0	89.8	91.3	1.7	77-123	20		
Toluene	86.3	87.7	100.0	100.0	86.3	87.7	1.6	78-122	20		
Ethyl benzene	89.3	90.6	100.0	100.0	89.3	90.6	1.4	70-130	20		
Xylene(s)	268	273	300	300	89.3	91.0	1.9	75-125	20		
Surrogate(s)											
Trifluorotoluene	396	409	500	500	79.2	81.8		58-124			
4-Bromofluorobenzene-FI	414	401	500	500	82.8	80.2		50-150			

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-06-0038

PCBs - EPA 8082

Engeo, Inc.

Attn: Keith Nowell

Project #: 4729.3.002.02

2401 Crow Canyon Rd., Suite 200
San Ramon, CA 94583-1545

Phone: (925) 838-1600 Fax: (925) 838-7425

Project: Del Valle High School

Samples Reported

Sample ID	Matrix	Date Sampled	Lab #
MW-1	Water	06/01/2000 16:00	1

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-06-0038

To: **Engeo, Inc.**
Attn.: Keith Nowell

Test Method: 8082
Prep Method: 3510/8082

PCBs - EPA 8082

Sample ID:	**MW-1**	Lab Sample ID:	**2000-06-0038-001**
Project:	4729.3.002.02 Del Valle High School	Received:	06/01/2000 17:20
		Extracted:	06/06/2000 12:36
Sampled:	06/01/2000 16:00	QC-Batch:	2000/06/06-01.14
Matrix:	Water		

Sample/Analysis Flag rl (See Legend & Note section)

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Aroclor 1016	ND	0.59	ug/L	1.18	06/07/2000 13:10	
Aroclor 1221	ND	0.59	ug/L	1.18	06/07/2000 13:10	
Aroclor 1232	ND	0.59	ug/L	1.18	06/07/2000 13:10	
Aroclor 1242	ND	0.59	ug/L	1.18	06/07/2000 13:10	
Aroclor 1248	ND	0.59	ug/L	1.18	06/07/2000 13:10	
Aroclor 1254	ND	0.59	ug/L	1.18	06/07/2000 13:10	
Aroclor 1260	ND	0.59	ug/L	1.18	06/07/2000 13:10	
Surrogate(s)						
2,4,5,6-Tetrachloro-m-xylene	64.0	62-123	%	1.18	06/07/2000 13:10	
Decachlorobiphenyl	52.6	56-136	%	1.18	06/07/2000 13:10	s

To: **Engeo, Inc.**
Attn.: Keith Nowell

Test Method: 8082
Prep Method: 3510/8082

Batch QC Report
PCBs - EPA 8082

Method Blank **Water** **QC Batch # 2000/06/06-01.14**

MB: 2000/06/06-01.14-001 Date Extracted: 06/06/2000 12:36

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Aroclor 1016	ND	0.5	ug/L	06/07/2000 11:35	
Aroclor 1221	ND	0.5	ug/L	06/07/2000 11:35	
Aroclor 1232	ND	0.5	ug/L	06/07/2000 11:35	
Aroclor 1242	ND	0.5	ug/L	06/07/2000 11:35	
Aroclor 1248	ND	0.5	ug/L	06/07/2000 11:35	
Aroclor 1254	ND	0.5	ug/L	06/07/2000 11:35	
Aroclor 1260	ND	0.5	ug/L	06/07/2000 11:35	
Surrogate(s)					
2,4,5,6-Tetrachloro-m-xylene	89.6	62-123	%	06/07/2000 11:35	
Decachlorobiphenyl	91.6	56-136	%	06/07/2000 11:35	

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-06-0038

To: **Engeo, Inc.**

Attn: Keith Nowell

Test Method: 8082

Prep Method: 3510/8082

Batch QC Report

PCBs - EPA 8082

Laboratory Control Spike (LCS/LCSD) **Water** **QC Batch # 2000/06/06-01.14**

LCS: 2000/06/06-01.14-002 Extracted: 06/06/2000 12:36 Analyzed 06/07/2000 12:07

LCSD: 2000/06/06-01.14-003 Extracted: 06/06/2000 12:36 Analyzed 06/07/2000 12:38

Compound	Conc. [ug/L]		Exp.Conc. [ug/L]		Recovery [%]		RPD	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recovery	RPD	LCS	LCSD
Aroclor 1016	1.90	1.95	2.00	2.00	95.0	97.5	2.6	65-135	30		
Aroclor 1260	2.03	2.00	2.00	2.00	101.5	100.0	1.5	65-135	30		
Surrogate(s)											
2,4,5,6-Tetrachloro-m-xyl	43.5	44.3	50	50	87.0	88.6		62-123			
Decachlorobiphenyl	45.1	45.3	50	50	90.2	90.6		56-136			

To: **Engeo, Inc.**
Attn:Keith Nowell

Test Method: 8082
Prep Method: 3510/8082

Legend & Notes

PCBs - EPA 8082

Analysis Flags

rl

Reporting limits raised due to reduced sample size.

Analyte Flags

s

One surrogate recovery out of control, but second surrogate within QC limits confirms test performance.

CHROMALAB, INC.

Environmental Services (SDB) (DOHS 1094)

4729.3.002.02

1220 Quarry Lane • Pleasanton, California 94566-4756
(925) 484-1919 • Fax (925) 484-1096

2000-06-0038

Reference #: 12579

Chain of Custody

DATE _____ PAGE _____ OF _____

PROJ. MGR Keith Nowell
COMPANY ENGEO INC STE 200
ADDRESS 2401 Crow Canyon Rd
San Ramon 94583

SAMPLERS (SIGNATURE) Bill Fogarty (PHONE NO.) 925-838-1600
(FAX NO.) 925-838-7135

SAMPLE ID.	DATE	TIME	MATRIX	PRESERV.	TPH-(EPA 8015,8020) ☒Gas w/ ☒BTEX ☐MTBE	PURGEABLE AROMATICS BTEX (EPA 8020)	TPH-Diesel (EPA 8015M)	TEPH (EPA 8015M) ☐Diesel ☐M.O. ☐Other	PURGEABLE HALOCARBONS (HVOCs) (EPA 8010)	VOLATILE ORGANICS (VOCs) (EPA 8260)	SEMIVOLATILES (EPA 8270)	Oil & Grease ☐Petrol ☐Total ☐1664		☐PESTICIDES/EPA 8080) ☐PCB's (EPA ~~8080~~ 8082)	PNA's by ☒8270 ☐8310	☐Spec. Cond. ☐TSS ☐TDS	LUFT METALS: Cd, Cr, Pb, Ni, Zn	CAM 17 METALS (EPA 6010/7470/7471)	TOTAL LEAD	☐W.E.T. (STLC) ☐TCLP	☐Hexavalent Chromium ☐pH (24 hr hold time for H20)				NUMBER OF CONTAINERS
MW-1 ~~(3)~~	6-1-00	1600	Aqueous	HCl	X		X							X	X										8
~~MW-1 (5)~~	~~6-1-00~~	~~1607~~	~~Aqueous~~	~~ICE~~																					

PROJECT INFORMATION

PROJECT NAME: Del Valle High School
PROJECT NUMBER: 4729.3.002.02
P.O. #:

TAT: STANDARD 5-DAY | 24 | 48 | 72 | OTHER

SPECIAL INSTRUCTIONS/COMMENTS:
Report: ☐ Routine ☐ Level 2 ☐ Level 3 ☐ Level 4 ☐ Electronic Report

SAMPLE RECEIPT

TOTAL NO. OF CONTAINERS	
HEAD SPACE	
TEMPERATURE	
CONFORMS TO RECORD	

	1.	2.	3.
RELINQUISHED BY	Bill Fogarty 17:20		
(SIGNATURE) (TIME)			
(PRINTED NAME) (DATE)	BILL FOGARTY 6-1-00		
(COMPANY)	ENGEO INC		
RECEIVED BY			RECEIVED BY (LABORATORY) 17:30
(SIGNATURE) (TIME)			
(PRINTED NAME) (DATE)			CHRISTINA 6-1-00
(COMPANY)			(LAB)