

AES

APPLIED EARTH SCIENCES, INC.

xc: Amador Escudero
Luis Perez-Garcia
Eric Wold-Raba Kistner
8-03-92

July 10, 1992

Mr. Charles Brown
C. C. Pump Service Inc.
3827 Baldwin Boulevard
Corpus Christi, Texas 78405

RE: Aviation fuel transfer line release, Laredo International Airport, Laredo, Texas; AES Project No. 9702.

Dear Mr. Brown:

Applied Earth Sciences, Inc. (AES) investigated an apparent release at the referenced facility on June 23, 1992.

Repairs to the transfer line were completed below grade in an excavated area three feet by 30 feet by one foot deep at the airport fuel farm (Figure 1). C. C. Pump Service, Inc. of Corpus Christi, Texas performed the repairs on June 23 and 24, 1992.

AES collected the soil samples on June 23, 1992. Samples were submitted to Environmental Chemistry, Inc. of Houston, Texas for analyses of benzene, toluene, ethylbenzene, and xylene (BTEX) by EPA method 8020 and total petroleum hydrocarbons (TPH) by ASTM method 3328 (GC).

At four feet below grade (B-1(4')) total BTEX was 11,216 ug/Kg and TPH was 5,230 mg/Kg. A composite soil sample (SW-2') was collected from four points within the open excavation. Compositing points were located two feet to the north, south, east, and west of sample point B-1(4'), and sample depth was two feet below grade. Total BTEX and TPH for this composite sample, SW-2', were below detection limits. The analyses are summarized in Table 1, and complete laboratory reports are attached.

AES appreciates this opportunity to be of service. Please contact me at (512) 854-9182 should a question arise.

Sincerely,



William W. Barber
Environmental Scientist

Attachment: laboratory reports.

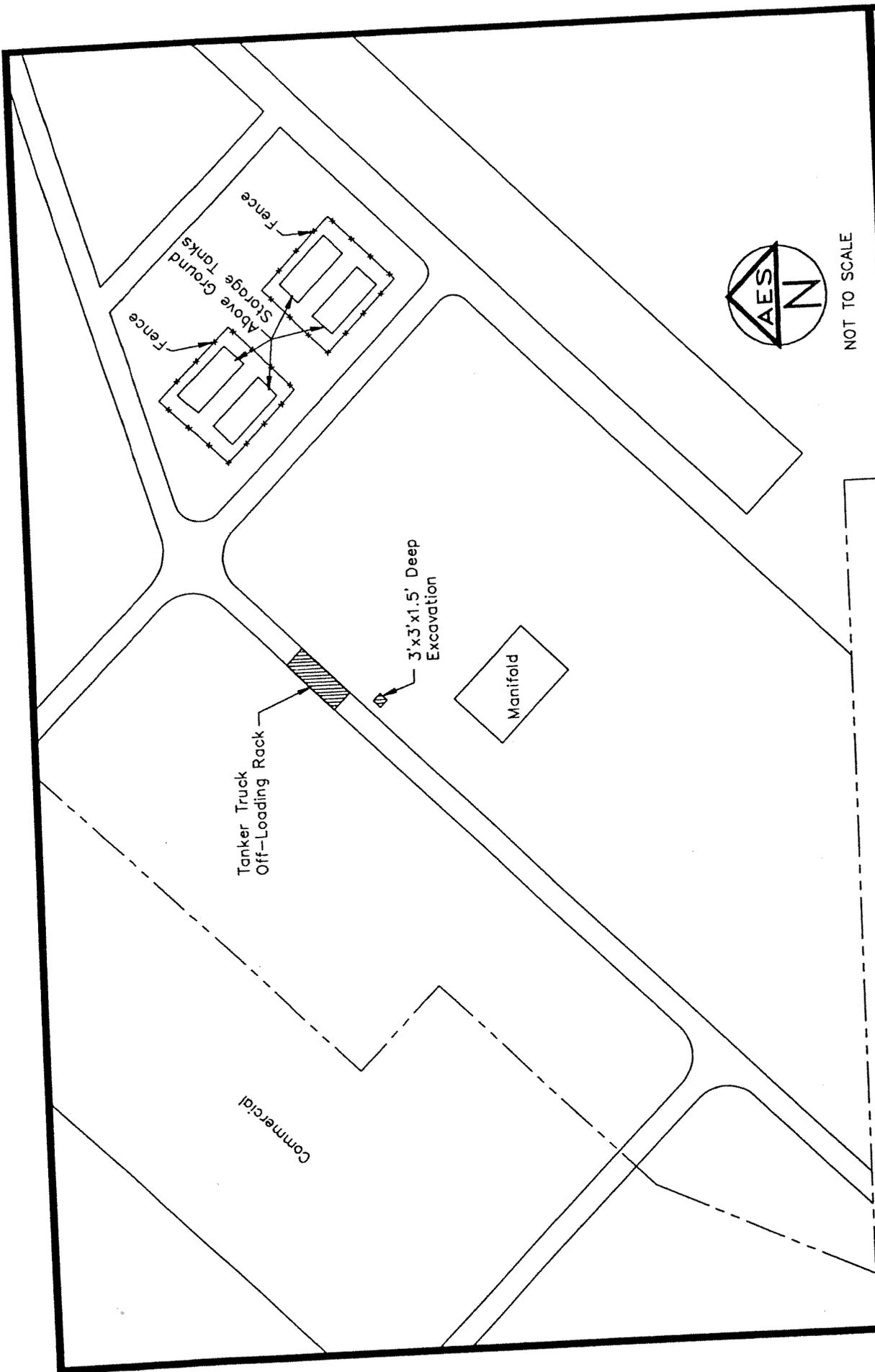
00681

APPLIED EARTH SCIENCES

Soil Analyses
 Laredo International Airport
 Laredo, Texas
 AES Project No. 9702

<u>Sample</u>	<u>Date</u>	<u>Benzene</u> ug/Kg	<u>Toluene</u> ug/Kg	<u>Ethyl- benzene</u> ug/Kg	<u>Xylene</u> ug/Kg	<u>Total BTEX</u> ug/Kg	<u>Total Petroleum Hydrocarbons</u> mg/Kg
B-1 (4')	06/23/92	BDL	66	1,930	9,220	11,216	5,230
SW (2')	06/23/92	BDL	BDL	BDL	BDL	BDL	BDL
CSP	06/23/92	BDL	22	326	1,720	2,068	2,440

BDL = Below Detection Limits



NOT TO SCALE



1

SITE LAYOUT

LAREDO INTERNATIONAL AIRPORT
Laredo, Texas

Commercial

APPLIED EARTH SCIENCES

Janie Apac 07-09-92
Ref. File 9998SL

9702

1

38903

Environmental Chemistry, Inc.

Applied Earth Sciences, Inc.
5151 Flynn Parkway
Suite 412-P
Corpus Christi, Texas 78411
Attention: William Barber

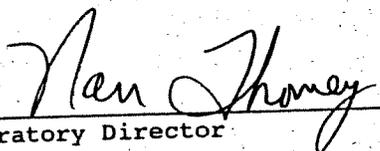
Report Number: 920492
Date Received: 06/25/92
Date Reported: 07/08/92
Client Project: 9702

ANALYTICAL REPORT

Lab Number: 920492-1 Sampled: 06/23/92 1330 by W. Barber
Description: B-1 (4')

Parameter	Result	Units	Dilution	Detn.	Limit	Method
Benzene	BDL	ug/KG	6	30	8020	
Toluene	66	ug/KG	6	30	8020	
Ethylbenzene	1930	ug/KG	6	30	8020	
Xylenes	9220	ug/KG	6	90	8020	
Petroleum Hydrocarbons by GC, Total	5230	mg/KG	1	10	D3328	

BDL = Below Detection Limit


Laboratory Director



Environmental Chemistry, Inc.

Applied Earth Sciences, Inc.
5151 Flynn Parkway
Suite 412-P
Corpus Christi, Texas 78411
Attention: William Barber

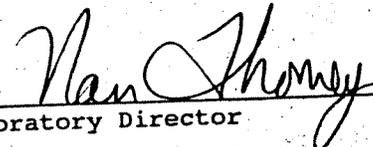
Report Number: 920492
Date Received: 06/25/92
Date Reported: 07/08/92
Client Project: 9702

ANALYTICAL REPORT

Lab Number: 920492-2 Sampled: 06/23/92 1335 by W. Barber
Description: SW (2')

Parameter	Result	Units	Dilution	Detn.	Limit	Method
Benzene	BDL	ug/KG	2	10	8020	
Toluene	BDL	ug/KG	2	10	8020	
Ethylbenzene	BDL	ug/KG	2	10	8020	
Xylenes	BDL	ug/KG	2	30	8020	
Petroleum Hydrocarbons by GC, Total	BDL	mg/KG	1	10	D3328	

BDL = Below Detection Limit


Laboratory Director



Environmental Chemistry, Inc.

Applied Earth Sciences, Inc.
5151 Flynn Parkway
Suite 412-P
Corpus Christi, Texas 78411
Attention: William Barber

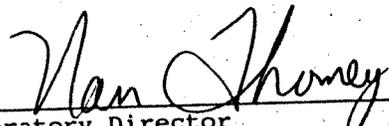
Report Number: 920492
Date Received: 06/25/92
Date Reported: 07/08/92
Client Project: 9702

ANALYTICAL REPORT

Lab Number: 920492-3 Sampled: 06/23/92 1340 by W. Barber
Description: CSP

Parameter	Result	Units	Dilution	Detn. Limit	Method
Benzene	BDL	ug/KG	2	10	8020
Toluene	22	ug/KG	2	10	8020
Ethylbenzene	326	ug/KG	2	10	8020
Xylenes	1720	ug/KG	2	30	8020
Petroleum Hydrocarbons by GC, Total	2440	mg/KG	1	10	D3328

BDL = Below Detection Limit


Laboratory Director

00686



Environmental Chemistry, Inc.

Applied Earth Sciences, Inc.
5151 Flynn Parkway
Suite 412-P
Corpus Christi, Texas 78411
Attention: William Barber

Report Number: 920492
Date Received: 06/25/92
Date Reported: 07/08/92
Client Project: 9702

SUMMARY OF ANALYTICAL METHODS AND HOLDING TIMES

		by 8020, SW-846			Hold Days 14	
Sample	Description	Sampled	Started	Completed	Analyst	Days Hold Time
920492- 1	B-1 (4')	06/23/92	07/01/92	07/01/92	NMT	8 Met
920492- 2	SW (2')	06/23/92	07/01/92	07/01/92	NMT	8 Met
920492- 3	CSP	06/23/92	06/30/92	06/30/92	NMT	7 Met

		by D3328, ASTM			Hold Days 28	
Sample	Description	Sampled	Started	Completed	Analyst	Days Hold Time
920492- 1	B-1 (4')	06/23/92	07/07/92	07/07/92	DJN	14 Met
920492- 2	SW (2')	06/23/92	07/07/92	07/07/92	DJN	14 Met
920492- 3	CSP	06/23/92	07/07/92	07/07/92	DJN	14 Met

00687



AES

APPLIED EARTH SCIENCES, INC.

CHAIN OF CUSTODY

970492

Project No. 9702 Sampled by: W. Barber
 Date Results Expected: Verbal 2-wks Written 2-wks Surcharge Authorized no
 Send Report To: William Barber
 Laboratory Name: ECE

Sample ID	Date/Time Sampled	Type Sample	No. Containers	Analyses Requested (include Methods)
970492-1 B-1(4')	6/23/92 1:30	Soil	1	BTEX (8020) TPH (by GC)
970492-2 SW (2')	6/23/92 1:35	Soil	1	BTEX (8020) TPH (by GC)
970492-3 CSF	6/23/92 1:40	Soil	1	BTEX (8020) TPH (by GC)

COMMENTS: Sent by FEDEX
Bill AES Corpus Christi, TX

AES PROJECT NUMBER MUST APPEAR ON ALL REPORTS AND INVOICES!!!

Relinquished by: Sign <u>William Barber</u>	Date/Time <u>6/24/92 12:00</u>	Received by: Sign	Date/Time
Relinquished by: Sign	Date/Time	Received by: Sign	Date/Time
Relinquished by: Sign	Date/Time	Received by: Sign	Date/Time

Received For Laboratory by: Sign <u>Graci Wayford</u>	Date/Time <u>6/25/92 1405</u>	Sample Condition <u>7.4°C</u>
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C. C. PUMP SERVICE INC.

3827 BALDWIN • CORPUS CHRISTI, TEXAS 78405-3094
PHONE 882-9370 & 882-5892

"Sales, Service & Installation"

INVOICE NO.
46842

SOLD TO

City of Laredo
4719 Maher Ave
Laredo, TX 78041

SHIP TO

DATE 7-20 19 92
International Airport
Laredo

CUSTOMER'S ORDER NO.		DATE SHIPPED	SHIPPED VIA	TERMS	SALESMAN	OUR ORDER NO.	
B-90159		6-24-92	Armando	Net 30 Days	IN	A35508	
QTY. ORD'D	QTY. B.O.	DESCRIPTION			QTY. SHP'D	UNIT PRICE	AMOUNT
		Repaired leak in 4" fiberglas line. Replaced under-ground fiberglas line & fittings, tested & backfilled. Had Applied Earth Science perform environmental testing.					
		LABOR: 6-11 8 hrs 2 men				45 00	360 00
		2 " " OT				67 50	135 00
		6-23 8 " "				45 00	360 00
		2 1/2 " " "				67 50	168 75
		6-24 8 " "				45 00	360 00
		MILES: 600 miles				40	240 00
		Per Diem 1 night 2 men			Each	75 00	150 00
		A.E.S.					2,313 00
10		Absorbant Pads				1 00	10 00
90'		4" Fiberglas Pipe				5 10'	459 00
3		4" Couplings				19 06	57 18
3		Adhesive Kits				16 44	49 32
1		4" Flange					46 00
8		Studs/nuts/washers				2 66	21 28
							\$ 4,729 53

[Handwritten Signature]
8/3/92

701 "Seller represents that with respect to the production of the articles covered by this invoice, it has fully complied with the provisions of the Fair Labor Standards Act of 1938, as amended." DISCLAIMER OF WARRANTIES: Any warranties on the products sold hereby are those made by the manufacturer. THE SELLER, C.C. Pump Service, Inc., hereby expressly disclaims all warranties, either express or implied, including any implied warranty of merchantability or fitness for a particular purpose, and C.C. Pump Service, Inc., neither assumes nor authorizes any other person to assume for it any liability in connection with the sale of said products.