BP OIL

BP Oil Company
Environmental Resources Management
Building 13, Suite N
295 SW 41st Street
Renton, Washington 98055-4931
(206) 251-0667
Fax No: (206) 251-0736

July 10,1996

Mr. Raymond Maxwell
Source Control Division
East Bay Municipal District
Oakland, California 94623

Subject: Sewer Discharge Permit - Semi-Annual Report
BP Oil Branded Service Station No. 11109
4280 Foothill Boulevard
Oakland, California
Wastewater Discharge Permit No. 502-77421

Dear Mr.Newman,

This is to inform you that the remediation system at the branded BP Oil Service Station No. 11109 4280 Foothill Boulevard, Oakland, California, has been shut down during the reporting period of January 1,1996 to June 30,1996.

Please call if you have any questions regarding this submittal.

Respectfully,

Scott T. Hooton
Environmental Resources Management
Corrective Action Manager

STH:sb msword\dis11266

cc: Peter Beaver, Alisto Engineering

Mr. Barney Chan, Alameda County Health Care Service Agency

Site File

ALISTO ENGINEERING GROUP

January 15, 1996

Mr. Barney Chan
Alameda County Health Care Services Agency
Department of Environmental Health
1131 Harbor Bay Parkway, Room 250
Alameda, California 94502-6577

10-005-03-002

Subject: Sewer Discharge Permit - Semi-Annual Report
BP Oil Company Service Station No. 11109
4280 Foothill Boulevard
Oakland, California
Wastewater Discharge Permit No. 502-77421

Dear Mr. Chan:

On behalf of BP Oil Company, we have enclosed a summary of analytical results for the remediation system sampling events and quantity discharged for BP Oil Company Service Station No. 11109, 4280 Foothill Boulevard, Oakland, California. This report covers the period from July 1 to December 31, 1995.

The results of sample analysis indicate that petroleum hydrocarbon constituents were not present above the reported detection limits in the effluent samples. The volume discharged for the period is presented in Table 1. The results of influent, intermediate, and effluent sample analysis are presented in Table 2. The sampling locations are shown on Figure 1. The laboratory reports and chain of custody records are presented in Attachment A.

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering information, the information is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

1575 TREAT BOULEVARD, SUITE 201 • WALNUT CREEK, CA 94598 • (510) 295-1650 • (510) 295-1823
CONTRACTORS LICENSE NO. A-652544

Please call if you have questions regarding this report.

Sincerely,

ALISTO ENGINEERING GROUP

Peter Beaver
Engineering Manager

Enclosures

cc: Robert Newman, East Bay Municipal Utility District
Scott Hooton, BP Oil Company

ALISTO ENGINEERING GROUP

January 15, 1996

Mr. Robert Newman
East Bay Municipal Utility District
Source Control Division
P.O. Box 24055
Oakland, California 94623

10-005-03-002

Subject: Sewer Discharge Permit - Semi-Annual Report
BP Oil Company Service Station No. 11109
4280 Foothill Boulevard
Oakland, California
Wastewater Discharge Permit No. 502-77421

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CONTRACTORS LICENSE NO. A-652544

Please call if you have questions regarding this report.

Sincerely,

ALISTO ENGINEERING GROUP

Peter Beaver
Engineering Manager

Enclosures

cc: Barney Chan, Alameda County Health Care Services Agency
Scott Hooton, BP Oil Company

TABLE 1 - FLOW DATA FOR GROUNDWATER TREATMENT SYSTEM
BP OIL COMPANY SERVICE STATION NO. 11109
4280 FOOTHILL BOULEVARD, OAKLAND, CALIFORNIA

ALISTO PROJECT NO. 10-005

DATE	FLOW METER READING (Gallons)	EFFLUENT DISCHARGED (Gallons)	AVERAGE FLOW RATE (GPD)	AVERAGE FLOW RATE (GPM)
02/15/94	0	0	---	0.00
02/28/94	1640	1640	126	0.09
03/30/94	3000	1360	45	0.03
04/29/94	12550	9550	318	0.22
05/31/94	16237	3687	115	0.08
07/01/94	19505	3268	105	0.07
07/29/94	30516	11011	393	0.27
09/03/94	50432	19916	553	0.38
10/05/94	72894	22462	702	0.49
10/31/94	96393	23499	904	0.63
11/29/94	130333	33940	1170	0.81
12/29/94	137135	6802	227	0.16
01/30/95	147776	10641	333	0.23
02/22/95	150774	2998	130	0.09
03/30/95	156834	6060	168	0.12
05/16/95	159944	3110	66	0.05
06/29/95	163362	3418	78	0.05
08/01/95	177156	13794	418	0.29
08/29/95	216089	38933	1390	0.97
09/28/95	252466	36377	1213	0.84
10/18/95	274057	21591	1080	0.75
11/14/95	300728	26671	988	0.69
12/27/95	344650	43922	1021	0.71
TOTAL FOR PERIOD		181288	1002	0.70

ABBREVIATIONS:

GPD	Gallons per day
GPM	Gallons per minute
---	Not applicable

10-005F.WQ1

TABLE 2 - SUMMARY OF RESULTS OF GROUNDWATER TREATMENT SYSTEM OPERATION
BP OIL COMPANY SERVICE STATION NO. 11109
4280 FOOTHILL BOULEVARD, OAKLAND, CALIFORNIA

ALISTO PROJECT NO. 10-005

Sample ID	Date	TPH-G (ug/l)	TPH-D (ug/l)	B (ug/l)	T (ug/l)	E (ug/l)	X (ug/l)	UNKNOWN (ug/l)	MEK (ug/l)	1,2-DCA	Arsenic (mg/l)	Barium (mg/l)	Molybdenum (mg/l)	Copper (mg/l)	Nickel (mg/l)	Zinc (mg/l)	MTBE (ug/l)	LAB
STA11109-I	02/15/94	---	---	810	440	ND<0.50	1400	---	ND<5.0	---	ND<0.005	0.15	ND<0.02	0.02	0.05	0.43	---	PACE
I-1	02/18/94	19000	---	2500	1300	180	1800	---	ND<5.0	---	---	---	---	---	---	---	---	PACE
I-1	02/25/94	19000	3700	2400	1300	190	1400	1400	---	---	---	---	---	---	---	---	---	PACE
I-1	03/07/94	5800	---	660	290	52	540	---	---	---	---	---	---	---	---	---	---	PACE
I-1	04/15/94	7600	---	740	240	ND<0.50	590	---	---	---	---	---	---	---	---	---	---	PACE
I-1	05/12/94	6800	---	710	470	67	730	---	---	---	---	---	---	---	---	---	---	PACE
I-1	06/16/94	6000	---	460	270	60	730	---	---	---	---	---	---	---	---	---	---	PACE
I-1	07/14/94	5300	2100	260	180	58	820	---	---	---	---	---	---	---	---	---	---	PACE
I-1	08/23/94	4700	1400	690	120	52	590	---	---	---	---	---	---	---	---	---	---	PACE
I-1	09/19/94	5900	2200	310	120	43	530	---	---	---	---	---	---	---	---	---	---	PACE
I-1	10/17/94	2500	ND<50	66	8.9	7.6	110	---	---	---	---	---	---	---	---	---	---	GTEL
I-1	11/15/94	14000	ND<50	1000	290	33	1200	---	---	---	---	---	---	---	---	---	---	GTEL
I-1	12/14/94	15000	---	2500	470	45	1200	---	---	---	---	---	---	---	---	---	---	GTEL
I-1	01/19/95	9300	79	3100	840	150	1500	---	---	---	---	---	---	---	---	---	---	ATI
I-1	02/06/95	14000	13000	2400	670	48	1200	---	---	---	---	---	---	---	---	---	---	ATI
I-1	02/22/95	11000	12000	1600	380	57	910	---	---	---	---	---	---	---	---	---	---	ATI
I-1	03/14/95	12000	15000	2000	560	38	1200	---	---	---	---	---	---	---	---	---	---	ATI
I-1	04/18/95	14000	9500	2400	650	60	1500	---	---	---	---	---	---	---	---	---	---	ATI
I-1	05/16/95	15000	12000	2800	830	100	1400	---	---	---	---	---	---	---	---	---	---	ATI
I-1	06/19/95	12000	9300	2300	700	98	1000	---	---	---	---	---	---	---	---	---	---	ATI
I-1	07/18/95	1100	8900	1900	650	96	950	---	---	---	---	---	---	---	---	---	---	ATI
I-1	08/17/95	6500	5100	300	180	33	510	---	---	---	---	---	---	---	---	---	190	ATI
I-1	09/19/95	4700	3600	99	75	13	490	---	---	---	---	---	---	---	---	---	79	ATI
I-1	10/18/95	3900	---	37	20	<1	360	---	ND<10	1	---	---	---	---	---	---	---	ATI
I-1	11/14/95	4300	4000	28	5	<1	250	---	ND<10	ND<1	---	---	---	---	---	---	---	ATI
I-1	12/12/95	4500	5800	47	4	<1	260	---	ND<10	ND<1	---	---	---	---	---	---	---	ATI
STA11109-A	02/15/94	---	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	---	ND<5.0	---	ND<0.005	ND<0.01	ND<0.02	ND<0.01	ND<0.02	0.13	---	PACE
A-1	02/18/94	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	---	ND<5.0	---	---	---	---	---	---	---	---	PACE
A-1	02/25/94	ND<50	---	1.1	0.8	ND<0.50	0.7	---	---	---	---	---	---	---	---	---	---	PACE
A-1	03/07/94	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	---	---	---	---	---	---	---	---	---	---	PACE
A-1	04/15/94	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	---	---	---	---	---	---	---	---	---	---	PACE
A-1	05/12/94	ND<50	---	ND<0.50	ND<0.50	ND<0.50	0.5	---	---	---	---	---	---	---	---	---	---	PACE
A-1	06/16/94	ND<50	---	0.7	0.5	ND<0.50	0.6	---	---	---	---	---	---	---	---	---	---	PACE
A-1	07/14/94	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	---	---	---	---	---	---	---	---	---	---	PACE
A-1	08/23/94	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	---	---	---	---	---	---	---	---	---	---	PACE
A-1	09/19/94	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	---	---	---	---	---	---	---	---	---	---	PACE
A-1	10/17/94	ND<100	---	ND<0.5	ND<1.0	ND<1.0	ND<2.0	---	---	---	---	---	---	---	---	---	---	GTEL
A-1	11/15/94	ND<10	---	ND<0.3	ND<0.3	ND<0.3	ND<0.5	---	---	---	---	---	---	---	---	---	---	GTEL
A-1	12/14/94	ND<10	---	ND<0.3	ND<0.3	ND<0.3	ND<0.5	---	---	---	---	---	---	---	---	---	---	GTEL
A-1	01/19/95	ND<50	---	ND<0.5	ND<0.5	0.6	2	---	---	---	---	---	---	---	---	---	---	ATI
A-1	02/06/95	ND<50	---	2.9	1.1	ND<0.25	2.6	---	---	---	---	---	---	---	---	---	---	ATI
A-1	02/22/95	ND<50	---	1.8	0.96	ND<0.50	2.1	---	---	---	---	---	---	---	---	---	---	ATI
A-1	03/14/95	ND<50	---	0.77	ND<0.50	ND<0.50	1.1	---	---	---	---	---	---	---	---	---	---	ATI
A-1	04/18/95	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	---	---	---	---	---	---	---	---	---	---	ATI
A-1	05/16/95	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	---	---	---	---	---	---	---	---	---	---	ATI
A-1	06/19/95	ND<50	---	0.59	0.52	ND<0.50	1.0	---	---	---	---	---	---	---	---	---	---	ATI
QC-1	06/19/95	ND<50	---	0.62	ND<0.50	ND<0.50	1.0	---	---	---	---	---	---	---	---	---	---	ATI
A-1	07/18/95	ND<50	---	1.6	1.3	ND<0.50	2.2	---	---	---	---	---	---	---	---	---	---	ATI
QC-1	07/18/95	ND<50	---	1.6	1.2	ND<0.50	2.2	---	---	---	---	---	---	---	---	---	---	ATI
A-1	08/17/95	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	---	---	---	---	---	---	---	---	---	ND<5.0	ATI
A-1	09/19/95	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	---	---	---	---	---	---	---	---	---	ND<5.0	ATI
A-1	10/18/95	ND<50	---	ND<1	ND<2	ND<1	ND<1	---	ND<10	ND<1	---	---	---	---	---	---	---	ATI
A-1	11/14/95	ND<50	---	ND<1	ND<2	ND<1	ND<1	---	ND<10	ND<1	---	---	---	---	---	---	---	ATI
A-1	12/12/95	ND<50	---	ND<1	ND<2	ND<1	ND<1	---	ND<10	ND<1	---	---	---	---	---	---	---	ATI

TABLE 2 - SUMMARY OF RESULTS OF GROUNDWATER TREATMENT SYSTEM OPERATION
BP OIL COMPANY SERVICE STATION NO. 11109
4280 FOOTHILL BOULEVARD, OAKLAND, CALIFORNIA

ALISTO PROJECT NO. 10-005

Sample ID	Date	TPH-G (ug/l)	TPH-D (ug/l)	B (ug/l)	T (ug/l)	E (ug/l)	X (ug/l)	UNKNOWN (ug/l)	MEK (ug/l)	1,2-DCA	Arsenic (mg/l)	Barium (mg/l)	Molybdenum (mg/l)	Copper (mg/l)	Nickel (mg/l)	Zinc (mg/l)	MTBE (ug/l)	LAB
STA11109-E	02/15/94	---	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	---	59	---	0.019	ND<0.01	0.04	ND<0.01	ND<0.01	0.05	---	PACE
E-1	02/18/94	---	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	---	ND<5.0	---	---	---	---	---	---	---	---	PACE
E-1	02/25/94	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	---	---	---	---	---	---	---	---	---	---	PACE
E-1	03/07/94	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	---	---	---	---	---	---	---	---	---	---	PACE
E-1	04/15/94	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	---	---	---	---	---	---	---	---	---	---	PACE
E-1	05/12/94	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	---	---	---	---	---	---	---	---	---	---	PACE
E-1	06/16/94	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	---	---	---	---	---	---	---	---	---	---	PACE
E-1	07/14/94	ND<50	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	---	---	---	---	---	---	---	---	---	---	PACE
E-1	08/23/94	ND<50	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	---	---	---	---	---	---	---	---	---	---	PACE
E-1	09/19/94	ND<50	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	---	---	---	---	---	---	---	---	---	---	PACE
E-1	10/17/94	ND<100	ND<50	ND<0.5	ND<1.0	ND<1.0	ND<2.0	---	---	---	---	---	---	---	---	---	---	GTEL
E-1	11/15/94	ND<10	ND<50	ND<0.3	ND<0.3	ND<0.3	ND<0.5	---	---	---	---	---	---	---	---	---	---	GTEL
E-1	12/14/94	ND<10	ND<50	ND<0.3	ND<0.3	ND<0.3	ND<0.5	---	---	---	---	---	---	---	---	---	---	GTEL
E-1	01/19/95	ND<50	5700	3	0.8	ND<0.5	1	---	---	---	---	---	---	---	---	---	---	ATI
E-1	02/06/95	ND<50	ND<500	ND<0.25	ND<0.25	ND<0.25	ND<0.50	---	---	---	---	---	---	---	---	---	---	ATI
E-1	02/22/95	ND<50	ND<500	ND<0.50	ND<0.50	ND<0.50	ND<1.0	---	---	---	---	---	---	---	---	---	---	ATI
QC-1	02/22/95	ND<50	ND<500	ND<0.50	ND<0.50	ND<0.50	ND<1.0	---	---	---	---	---	---	---	---	---	---	ATI
E-1	03/14/95	ND<50	ND<500	ND<0.50	ND<0.50	ND<0.50	ND<1.0	---	---	---	---	---	---	---	---	---	---	ATI
E-1	04/18/95	ND<50	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	---	---	---	---	---	---	---	---	---	---	ATI
QC-1	04/18/95	ND<50	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	---	---	---	---	---	---	---	---	---	---	ATI
E-1	05/16/95	ND<50	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	---	---	---	---	---	---	---	---	---	---	ATI
QC-1	05/16/95	ND<50	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	---	---	---	---	---	---	---	---	---	---	ATI
E-1	06/19/95	ND<50	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	---	---	---	---	---	---	---	---	---	---	ATI
E-1	07/18/95	ND<50	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	---	---	---	---	---	---	---	---	---	---	ATI
E-1	08/17/95	ND<50	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	---	---	---	---	---	---	---	---	---	ND<5.0	ATI
QC-1	08/17/95	ND<50	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	---	---	---	---	---	---	---	---	---	ND<5.0	ATI
E-1	09/19/95	ND<50	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	---	---	---	---	---	---	---	---	---	ND<5.0	ATI
E-1	10/18/95	ND<50	---	ND<1	ND<2	ND<1	ND<1	---	ND<10	ND<1	---	---	---	---	---	---	---	ATI
QC-1	10/18/95	ND<50	---	ND<1	ND<2	ND<1	ND<1	---	ND<10	ND<1	---	---	---	---	---	---	---	ATI
E-1	11/14/95	ND<50	ND<50	ND<1	ND<2	ND<1	ND<1	---	ND<10	ND<1	---	---	---	---	---	---	---	ATI
QC-1	11/14/95	ND<50	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ATI
E-1	12/12/95	ND<50	ND<50	ND<1	ND<2	ND<1	ND<1	---	ND<10	ND<1	---	---	---	---	---	---	---	ATI

ABBREVIATIONS:

TPH-G	Total petroleum hydrocarbons as gasoline	ND	Not detected above reported detection limit
TPH-D	Total petroleum hydrocarbons as diesel	---	Not analyzed/available
B	Benzene	I-1	Influent sampling port
T	Toluene	A-1	Intermediate sampling port
E	Ethylbenzene	E-1	Effluent sampling port
X	Total xylenes	QC-1	Field blank
MEK	Methyl ethyl ketone	PACE	Pace, Inc.
MTBE	Methyl tert butyl ether	GTEL	GTEL Environmental Laboratories, Inc.
ug/l	Micrograms per liter	ATI	Analytical Technologies, Inc.
mg/l	Milligrams per liter		

Analytical**Technologies,** Inc. Corporate Offices: 5550 Morehouse Drive San Diego, CA 92121 (619) 458-9141

ATI I.D.: 507193

August 01, 1995

ALISTO ENGINEERING
1575 TREAT BOULEVARD, SUITE 201
WALNUT CREEK, CA 94598

Project Name: BP SITE#11109/4280 FOOTHILL BLVD. OAKLAND, CA
Project # : G314386/10-005-03-001

Attention: PETER BEAVER

Analytical Technologies, Inc. has received the following sample(s):

Date Received	Quantity	Matrix
July 20, 1995	4	WATER

The sample(s) were analyzed with EPA methodology or equivalent methods as specified in the enclosed analytical schedule. The symbol for "less than" indicates a value below the reportable detection limit. If any flags appear next to the analytical data in this report, please see the attached list of flag definitions.

The results of these analyses and the quality control data are enclosed. Please note that the Sample Condition Upon Receipt Checklist is included at the end of this report.

GARY STEWART
VOLATILES SUPERVISOR

ALAN J. KLEINSCHMIDT
LABORATORY MANAGER

RECEIVED
AUG 04 1995

Analytical Technologies, Inc.

SAMPLE CROSS REFERENCE

Client : ALISTO ENGINEERING
Project # : G314386/10-005-03-001
Project Name: BP SITE#11109/4280 FOOTHILL BLVD. OAKLAND, CA

Report Date: August 01, 1995
ATI I.D. : 507193

ATI #	Client Description	Matrix	Date Collected
1	STA #11109 INF	WATER	18-JUL-95
2	STA #11109 A	WATER	18-JUL-95
3	STA #11109 EFF	WATER	18-JUL-95
4	STA #11109 FIELD BLANK	WATER	18-JUL-95

---TOTALS---

Matrix	# Samples
WATER	4

ATI STANDARD DISPOSAL PRACTICE

The sample(s) from this project will be disposed of in twenty-one (21) days from the date of this report. If an extended storage period is required, please contact our sample control department before the scheduled disposal date.

Analytical Technologies, Inc.

ANALYTICAL SCHEDULE

Client : ALISTO ENGINEERING
Project # : G314386/10-005-03-001
Project Name: BP SITE#11109/4280 FOOTHILL BLVD. OAKLAND, CA

ATI I.D.: 507193

Analysis	Technique/Description
MOD EPA 8015-CDOHS (FUEL HYDROCARBONS: C7-C24)	GC/FLAME IONIZATION DETECTOR
MOD EPA 8015-CDOHS/8020 (HYDROCARBONS C6-C12/BTXE)	GC/FLAME ION./PHOTO IONIZATION DETECTOR

Analytical Technologies, Inc.

GAS CHROMATOGRAPHY RESULTS

Test : MOD EPA 8015-CDOHS (FUEL HYDROCARBONS: C7-C24)
Client : ALISTO ENGINEERING ATI I.D. : 507193
Project # : G314386/10-005-03-001
Project Name: BP SITE#11109/4280 FOOTHILL BLVD. OAKLAND, CA

Sample #	Client ID	Matrix	Date Sampled	Date Extracted	Date Analyzed	Dil. Factor
1	STA #11109 INF	WATER	18-JUL-95	22-JUL-95	25-JUL-95	10.00
3	STA #11109 EFF	WATER	18-JUL-95	22-JUL-95	24-JUL-95	1.00

Parameter	Units	1	3
FUEL HYDROCARBONS	MG/L	8.9	<0.05
HYDROCARBON RANGE		C7-C14	-
HYDROCARBONS QUANTITATED USING		GASOLINE	-
SURROGATES			
BIS(2-ETHYLHEXYL)PHTHALATE	%	92	103

Analytical Technologies, Inc.

GAS CHROMATOGRAPHY - QUALITY CONTROL

REAGENT BLANK

Test : MOD EPA 8015-CDOHS (FUEL HYDROCARBONS)
Blank I.D. : 36149
Client : ALISTO ENGINEERING
Project # : G314386/10-005-03-001
Project Name: BP SITE#11109/4280 FOOTHILL BLVD. OAKLAND, CA

ATI I.D. : 507193
Date Extracted: 22-JUL-95
Date Analyzed : 24-JUL-95
Dil. Factor : 1.00

Parameters	Units	Results
FUEL HYDROCARBONS	MG/L	<0.05
HYDROCARBON RANGE		-
HYDROCARBONS QUANTITATED USING		-
SURROGATES		
BIS(2-ETHYLHEXYL)PHTHALATE	%	95

Analytical Technologies, Inc.

GAS CHROMATOGRAPHY - QUALITY CONTROL

MSMSD

Test : MOD EPA 8015-CDOHS (FUEL HYDROCARBONS)
MSMSD # : 77312
Client : ALISTO ENGINEERING

Project # : G314386/10-005-03-001
Project Name: BP SITE#11109/4280 FOOTHILL BLVD. OAKLAND, CA

ATI I.D. : 507193
Date Extracted: 22-JUL-95
Date Analyzed : 24-JUL-95
Sample Matrix : WATER
REF I.D. : REAGENT WATER

Parameters	Units	Sample Result	Conc Spike	Spiked Sample	% Rec	Dup Spike	Dup % Rec	RPD
FUEL HYDROCARBONS	MG/L	<0.050	1.0	0.65	65	0.74	74	13

% Recovery = (Spike Sample Result - Sample Result)*100/Spike Concentration
RPD (Relative % Difference) = (Spiked Sample Result - Duplicate Spike Result)*100/Average Result

GAS CHROMATOGRAPHY RESULTS

Test : MOD EPA 8015-CDOHS/8020 (HYDROCARBONS C6-C12/BTXE)
Client : ALISTO ENGINEERING ATI I.D. : 507193
Project # : G314386/10-005-03-001
Project Name: BP SITE#11109/4280 FOOTHILL BLVD. OAKLAND, CA

Sample #	Client ID	Matrix	Date Sampled	Date Extracted	Date Analyzed	Dil. Factor
1	STA #11109 INF	WATER	18-JUL-95	N/A	29-JUL-95	50.00
2	STA #11109 A	WATER	18-JUL-95	N/A	30-JUL-95	1.00
3	STA #11109 EFF	WATER	18-JUL-95	N/A	30-JUL-95	1.00

Parameter	Units	1	2	3
BENZENE	UG/L	1900	1.6	<0.50
TOLUENE	UG/L	650	1.3	<0.50
ETHYLBENZENE	UG/L	96	<0.50	<0.50
XYLENES (TOTAL)	UG/L	950	2.2	<1.0
FUEL HYDROCARBONS	UG/L	1100	<50	<50
HYDROCARBON RANGE		C6-C12	C6-C12	C6-C12
HYDROCARBONS QUANTITATED USING		GASOLINE	GASOLINE	GASOLINE
SURROGATES				
TRIFLUOROTOLUENE	%	110	98	98

Analytical Technologies, Inc.

GAS CHROMATOGRAPHY RESULTS

Test : MOD EPA 8015-CDOHS/8020 (HYDROCARBONS C6-C12/BTXE)
Client : ALISTO ENGINEERING ATI I.D. : 507193
Project # : G314386/10-005-03-001
Project Name: BP SITE#11109/4280 FOOTHILL BLVD. OAKLAND, CA

Sample #	Client ID	Matrix	Date Sampled	Date Extracted	Date Analyzed	Dil. Factor
4	STA #11109 FIELD BLANK	WATER	18-JUL-95	N/A	30-JUL-95	1.00

Parameter	Units	4
BENZENE	UG/L	1.6
TOLUENE	UG/L	1.2
ETHYLBENZENE	UG/L	<0.50
XYLENES (TOTAL)	UG/L	2.2
FUEL HYDROCARBONS	UG/L	<50
HYDROCARBON RANGE		C6-C12
HYDROCARBONS QUANTITATED USING		GASOLINE
SURROGATES		
TRIFLUOROTOLUENE	%	100

Analytical Technologies, Inc.

GAS CHROMATOGRAPHY - QUALITY CONTROL

REAGENT BLANK

Test : MOD EPA 8015-CDOHS (FUEL HYDROCARBONS/BTXE)
Blank I.D. : 36211
Client : ALISTO ENGINEERING
Project # : G314386/10-005-03-001
Project Name: BP SITE#11109/4280 FOOTHILL BLVD. OAKLAND, CA

ATI I.D. : 507193
Date Extracted: N/A
Date Analyzed : 29-JUL-95
Dil. Factor : 1.00

Parameters	Units	Results
BENZENE	UG/L	<0.50
TOLUENE	UG/L	<0.50
ETHYLBENZENE	UG/L	<0.50
XYLENES (TOTAL)	UG/L	<1.0
FUEL HYDROCARBONS	UG/L	<50
HYDROCARBON RANGE		C6-C12
HYDROCARBONS QUANTITATED USING		GASOLINE
SURROGATES		
TRIFLUOROTOLUENE	%	101

Analytical Technologies, Inc.

GAS CHROMATOGRAPHY - QUALITY CONTROL

REAGENT BLANK

Test : MOD EPA 8015-CDOHS (FUEL HYDROCARBONS/BTXE)
Blank I.D. : 36212
Client : ALISTO ENGINEERING
Project # : G314386/10-005-03-001
Project Name: BP SITE#11109/4280 FOOTHILL BLVD. OAKLAND, CA

ATI I.D. : 507193
Date Extracted: N/A
Date Analyzed : 30-JUL-95
Dil. Factor : 1.00

Parameters	Units	Results
BENZENE	UG/L	<0.50
TOLUENE	UG/L	<0.50
ETHYLBENZENE	UG/L	<0.50
XYLENES (TOTAL)	UG/L	<1.0
FUEL HYDROCARBONS	UG/L	<50
HYDROCARBON RANGE		C6-C12
HYDROCARBONS QUANTITATED USING		GASOLINE
SURROGATES		
TRIFLUOROTOLUENE	%	99

GAS CHROMATOGRAPHY - QUALITY CONTROL

MSMSD

Test : MOD EPA 8015-CDOHS (FUEL HYDROCARBONS/BTXE)
MSMSD # : 77350
Client : ALISTO ENGINEERING

Project # : G314386/10-005-03-001
Project Name: BP SITE#11109/4280 FOOTHILL BLVD. OAKLAND, CA

ATI I.D. : 507193
Date Extracted: N/A
Date Analyzed : 27-JUL-95
Sample Matrix : WATER
REF I.D. : 507164-01

Parameters	Units	Sample Result	Conc Spike	Spiked Sample	% Rec	Dup Spike	Dup % Rec	RPD
BENZENE	UG/L	<0.50	5.0	4.8	96	4.9	98	2
TOLUENE	UG/L	<0.50	5.0	5.1	102	5.2	104	2

% Recovery = (Spike Sample Result - Sample Result)*100/Spike Concentration
RPD (Relative % Difference) = (Spiked Sample Result - Duplicate Spike Result)*100/Average Result

Analytical Technologies, Inc.

GAS CHROMATOGRAPHY - QUALITY CONTROL

BLANK SPIKE

Test : MOD EPA 8015-CDOHS (FUEL HYDROCARBONS/BTXE)
Blank Spike #: 57901
Client : ALISTO ENGINEERING
Project # : G314386/10-005-03-001
Project Name : BP SITE#11109/4280 FOOTHILL BLVD. OAKLAND, CA

ATI I.D. : 507193
Date Extracted: N/A
Date Analyzed : 29-JUL-95
Sample Matrix : WATER

Parameters	Units	Blank Result	Spiked Sample	Spike Conc.	% Rec
BENZENE	UG/L	<0.50	4.8	5.0	96
TOLUENE	UG/L	<0.50	5.2	5.0	104

% Recovery = (Spike Sample Result - Sample Result)*100/Spike Concentration
RPD (Relative % Difference) = (Spiked Sample - Blank Result)*100/Average Result

Analytical Technologies, Inc.

GAS CHROMATOGRAPHY - QUALITY CONTROL

BLANK SPIKE

Test : MOD EPA 8015-CDOHS (FUEL HYDROCARBONS/BTXE)
Blank Spike #: 57902
Client : ALISTO ENGINEERING
Project # : G314386/10-005-03-001
Project Name : BP SITE#11109/4280 FOOTHILL BLVD. OAKLAND, CA

ATI I.D. : 507193
Date Extracted: N/A
Date Analyzed : 30-JUL-95
Sample Matrix : WATER

Parameters	Units	Blank Result	Spiked Sample	Spike Conc.	% Rec
BENZENE	UG/L	<0.50	4.9	5.0	98
TOLUENE	UG/L	<0.50	5.2	5.0	104

% Recovery = (Spike Sample Result - Sample Result)*100/Spike Concentration
RPD (Relative % Difference) = (Spiked Sample - Blank Result)*100/Average Result

ACCESSION #: 507193 INITIALS: LY

ATI-SanDiego
SAMPLE CONDITION UPON RECEIPT CHECKLIST
(FOR RE-ACCESSIONS, COMPLETE #7 THRU #9)

1	Does this project require special handling according to NFESC Levels C, D, AFCEE or CLP protocols? If yes, complete a) and b) a) pH sample aliquoted: yes /no /na b) Either 1) Record Bottle Lot #'s: Or 2) Attach Sample Kit Request Form(s)	YES	(NO)
2	Number of Coolers Received If more than one cooler received attach Multiple Cooler Documentation Form (MCD) Indicate "see MCD" on Item 11 below	1 (#199)	
3	Are custody seals required for this project ?	YES	(N/A)
	a) are Custody Seals present on Cooler(s) ?	YES	(NO)
	If yes, are seals intact ?	YES	NO
	b) are Custody Seals present on the sample ?	YES	(NO)
	If yes, are seals intact ?	YES	NO
4	Is there a Chain-Of-Custody (COC)* per cooler ? if not, if a problem is found indicate which samples/test were in the affected cooler on the MCD.	(YES)	NO
5	Is the COC* complete per cooler ? Relinquished: (yes)/no Requested analysis: (yes)/no	(YES)	NO
6	Is the COC* in agreement with the samples received? # Samples: (yes)/no Sample ID's: (yes)/no Date sampled: (yes)/no Matrix: (yes)/no # containers: (yes)/no	(YES)	NO
7	Are the samples preserved correctly?	(YES)	NO
8	Is there enough sample for all the requested analyses?	(YES)	NO
9	Are all samples within holding times for the requested analyses?	(YES)	NO
10	Record cooler temperature. Contact PM if temperature is not 4°C ± 2°C.	2.3 °C	
	Is ice present in cooler?	(YES)	NO
11	Were all sample containers received intact (ie. not broken, leaking, etc.)?	(YES)	NO
12	Are samples requiring no headspace, headspace free? N/A	(YES)	NO
13	Are VOA 1st stickers required?	YES	(NO)
14	Are there special comments on the Chain of Custody which require client contact?	YES	(N/A)
15	If yes, was ATI Project Manager notified?	YES	NO

Describe "no" items: _____

Was client contacted? yes / no

If yes, Date: _____ Name of Person contacted:

Describe actions taken or client instructions: _____

*Or other representative documents, letters, and/or shipping memos

BP

ATI# 507193

CHAIN OF CUSTODY

No. 061527

Page 1 of 1

CONSULTANT'S NAME	ADDRESS	CITY	STATE	ZIP CODE
ALISTO ENGINEERING	1575 TREAT BLVD STE 201	WALNUT CREEK	CA	94596

BP SITE NUMBER	BP CORNER ADDRESS/CITY	CONSULTANT PROJECT NUMBER
11109	4280 Foothill Blvd OAKLAND CA	10-005-03-001

CONSULTANT PROJECT MANAGER	PHONE NUMBER	FAX NUMBER	CONSULTANT CONTRACT NUMBER
PETE BEAVER	510 295 1650	510 295 1623	6.7.14.386.

BP CONTACT	BP ADDRESS	PHONE NUMBER	FAX NO.
SCOTT HOUTON	RENTON, WA		

LAB CONTACT	LABORATORY ADDRESS	PHONE NUMBER	FAX NO.
GARY STEWART	SAN DIEGO, CA		

SAMPLED BY (Please Print Name)	SAMPLED BY (Signature)	SHIPMENT DATE	SHIPMENT METHOD
JOHN BICKING	John K. Bicking		Fed Ex

TAT: ☐ 24 Hours ☐ 48 Hours ☐ 1 Week ☑ Standard 2 Weeks

AIRBILL NUMBER: 181892108 6.

ANALYSIS REQUIRED

SAMPLE DESCRIPTION	COLLECTION DATE	COLLECTION TIME	MATRIX SOIL/WATER	CONTAINERS NO.	CONTAINERS TYPE (VOL.)	PRESERVATIVE LAB SAMPLE #	HCl TPH-G BTEX	None TPH-D							COMMENTS
STA# 11109 INF	7/15/95	0800	GW	3	VOA	01	✓	✓							
		0805		2	U	↓		✓							
STA# 11109 A		0810		3	VOA	02	✓								
STA# 11109 EFF		0815		3	VOA	03	✓								
		0817		2	U	↓		✓							
STA# 11109 FIELD BLANK		0820		3	VOA	04	✓								

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
John R. Bicking	7/15/95	1001	[signature] (ATI)	7-20-95	0830

ADDITIONAL COMMENTS

Coolers @ 1199 = 2.3°C

CLV-16722

Distribution: White - Original (with Data)
Yellow - BP
Pink - Lab
Blue - Consultant Field Staff

Analytical**Technologies,**Inc. Corporate Offices: 5550 Morehouse Drive San Diego, CA 92121 (619) 458-9141

ATI I.D.: 508186

August 30, 1995

ALISTO ENGINEERING
1575 TREAT BOULEVARD, SUITE 201
WALNUT CREEK, CA 94598

Project Name: BP SITE#11109/4280 FOOTHILL BLVD., OAKLAND,CA
Project # : G314386/10-005-03-001

Attention: PETE BEAVER

Analytical Technologies, Inc. has received the following sample(s):

Date Received	Quantity	Matrix
August 19, 1995	4	WATER

The sample(s) were analyzed with EPA methodology or equivalent methods as specified in the enclosed analytical schedule. The symbol for "less than" indicates a value below the reportable detection limit. If any flags appear next to the analytical data in this report, please see the attached list of flag definitions.

The results of these analyses and the quality control data are enclosed. Please note that the Sample Condition Upon Receipt Checklist is included at the end of this report.

GARY STEWART
VOLATILES SUPERVISOR

FOR ALAN J. KLEINSCHMIDT
LABORATORY MANAGER

Analytical Technologies, Inc.

SAMPLE CROSS REFERENCE

Client : ALISTO ENGINEERING
Project # : G314386/10-005-03-001
Project Name: BP SITE#11109/4280 FOOTHILL BLVD., OAKLAND,CA

Report Date: August 30, 1995
ATI I.D. : 508186

ATI #	Client Description	Matrix	Date Collected
1	STA#11109 INF	WATER	17-AUG-95
2	STA#11109 A	WATER	17-AUG-95
3	STA#11109 EFF	WATER	17-AUG-95
4	STA#11109 Q-C-1	WATER	17-AUG-95

---TOTALS---

Matrix	# Samples
WATER	4

ATI STANDARD DISPOSAL PRACTICE

The sample(s) from this project will be disposed of in twenty-one (21) days from the date of this report. If an extended storage period is required, please contact our sample control department before the scheduled disposal date.

Client : ALISTO ENGINEERING
Project # : G314386/10-005-03-001
Project Name: BP SITE#11109/4280 FOOTHILL BLVD., OAKLAND,CA

ATI I.D.: 508186

Analysis	Technique/Description
MOD EPA 8015-CDOHS (FUEL HYDROCARBONS: C7-C24)	GC/FLAME IONIZATION DETECTOR
MOD EPA 8015-CDOHS/8020 (HYDROCARBONS C6-C12/BTXE)	GC/FLAME ION./PHOTO IONIZATION DETECTOR

Analytical Technologies, Inc. GAS CHROMATOGRAPHY RESULTS

Test : MOD EPA 8015-CDOHS (FUEL HYDROCARBONS: C7-C24)
Client : ALISTO ENGINEERING ATI I.D. : 508186
Project # : G314386/10-005-03-001
Project Name: BP SITE#11109/4280 FOOTHILL BLVD., OAKLAND,CA

Sample #	Client ID	Matrix	Date Sampled	Date Extracted	Date Analyzed	Dil. Factor
1	STA#11109 INF	WATER	17-AUG-95	22-AUG-95	24-AUG-95	1.00
3	STA#11109 EFF	WATER	17-AUG-95	22-AUG-95	24-AUG-95	1.00

Parameter	Units	1	3
FUEL HYDROCARBONS	MG/L	5.1	<0.05
HYDROCARBON RANGE		C7-C14	-
HYDROCARBONS QUANTITATED USING		GASOLINE	-
SURROGATES			
BIS(2-ETHYLHEXYL)PHTHALATE	%	102	100

Analytical Technologies Inc.

GAS CHROMATOGRAPHY - QUALITY CONTROL

REAGENT BLANK

Test : MOD EPA 8015-CDOHS (FUEL HYDROCARBONS)
Blank I.D. : 36521
Client : ALISTO ENGINEERING
Project # : G314386/10-005-03-001
Project Name: BP SITE#11109/4280 FOOTHILL BLVD., OAKLAND,CA

ATI I.D. : 508186
Date Extracted: 22-AUG-95
Date Analyzed : 24-AUG-95
Dil. Factor : 1.00

Parameters	Units	Results
FUEL HYDROCARBONS	MG/L	<0.05
HYDROCARBON RANGE		-
HYDROCARBONS QUANTITATED USING		-
SURROGATES		
BIS(2-ETHYLHEXYL) PHTHALATE	%	98

MSMSD

Test : MOD EPA 8015-CDOHS (FUEL HYDROCARBONS)
MSMSD # : 78055
Client : ALISTO ENGINEERING

Project # : G314386/10-005-03-001
Project Name: BP SITE#11109/4280 FOOTHILL BLVD., OAKLAND,CA

ATI I.D. : 508186
Date Extracted: 22-AUG-95
Date Analyzed : 25-AUG-95
Sample Matrix : WATER
REF I.D. : REAGENT WATER

Parameters	Units	Sample Result	Conc Spike	Spiked Sample	% Rec	Dup Spike	Dup % Rec	RPD
FUEL HYDROCARBONS	MG/L	<0.050	1.0	1.1	110	0.99	99	11

% Recovery = (Spike Sample Result - Sample Result)*100/Spike Concentration
RPD (Relative % Difference) = (Spiked Sample Result - Duplicate Spike Result)*100/Average Result

Analytical Technologies, Inc. GAS CHROMATOGRAPHY RESULTS

Test : MOD EPA 8015-CDOHS/8020 (HYDROCARBONS C6-C12/BTXE)
Client : ALISTO ENGINEERING ATI I.D. : 508186
Project # : G314386/10-005-03-001
Project Name: BP SITE#11109/4280 FOOTHILL BLVD., OAKLAND,CA

Sample #	Client ID	Matrix	Date Sampled	Date Extracted	Date Analyzed	Dil. Factor
1	STA#11109 INF	WATER	17-AUG-95	N/A	28-AUG-95	10.00
2	STA#11109 A	WATER	17-AUG-95	N/A	27-AUG-95	1.00
3	STA#11109 EFF	WATER	17-AUG-95	N/A	27-AUG-95	1.00

Parameter	Units	1	2	3
METHYL T-BUTYL ETHER	UG/L	190	<5.0	<5.0
BENZENE	UG/L	300	<0.50	<0.50
TOLUENE	UG/L	180	<0.50	<0.50
ETHYLBENZENE	UG/L	33	<0.50	<0.50
XYLENES (TOTAL)	UG/L	510	<1.0	<1.0
FUEL HYDROCARBONS	UG/L	6500	<50	<50
HYDROCARBON RANGE		C6-C12	C6-C12	C6-C12
HYDROCARBONS QUANTITATED USING		GASOLINE	GASOLINE	GASOLINE
SURROGATES				
TRIFLUOROTOLUENE	%	107	101	96

Test : MOD EPA 8015-CDOHS/8020 (HYDROCARBONS C6-C12/BTXE)
Client : ALISTO ENGINEERING ATI I.D. : 508186
Project # : G314386/10-005-03-001
Project Name: BP SITE#11109/4280 FOOTHILL BLVD., OAKLAND,CA

Sample #	Client ID	Matrix	Date Sampled	Date Extracted	Date Analyzed	Dil. Factor
4	STA#11109 Q-C-1	WATER	17-AUG-95	N/A	27-AUG-95	1.00

Parameter	Units	4
METHYL T-BUTYL ETHER	UG/L	<5.0
BENZENE	UG/L	<0.50
TOLUENE	UG/L	<0.50
ETHYLBENZENE	UG/L	<0.50
XYLENES (TOTAL)	UG/L	<1.0
FUEL HYDROCARBONS	UG/L	<50
HYDROCARBON RANGE		C6-C12
HYDROCARBONS QUANTITATED USING		GASOLINE
SURROGATES		
TRIFLUOROTOLUENE	%	95

GAS CHROMATOGRAPHY - QUALITY CONTROL

REAGENT BLANK

Test : MOD EPA 8015-CDOHS (FUEL HYDROCARBONS/BTXE)
Blank I.D. : 36532
Client : ALISTO ENGINEERING
Project # : G314386/10-005-03-001
Project Name: BP SITE#11109/4280 FOOTHILL BLVD., OAKLAND,CA

ATI I.D. : 508186
Date Extracted: N/A
Date Analyzed : 27-AUG-95
Dil. Factor : 1.00

Parameters	Units	Results
METHYL T-BUTYL ETHER	UG/L	<5.0
BENZENE	UG/L	<0.50
TOLUENE	UG/L	<0.50
ETHYLBENZENE	UG/L	<0.50
XYLENES (TOTAL)	UG/L	<1.0
FUEL HYDROCARBONS	UG/L	<50
HYDROCARBON RANGE		C6-C12
HYDROCARBONS QUANTITATED USING		GASOLINE
SURROGATES		
TRIFLUOROTOLUENE	%	86

REAGENT BLANK

Test : MOD EPA 8015-CDOHS (FUEL HYDROCARBONS/BTXE)
Blank I.D. : 36533
Client : ALISTO ENGINEERING
Project # : G314386/10-005-03-001
Project Name: BP SITE#11109/4280 FOOTHILL BLVD., OAKLAND,CA

ATI I.D. : 508186
Date Extracted: N/A
Date Analyzed : 28-AUG-95
Dil. Factor : 1.00

Parameters	Units	Results
METHYL T-BUTYL ETHER	UG/L	<5.0
BENZENE	UG/L	<0.50
TOLUENE	UG/L	<0.50
ETHYLBENZENE	UG/L	<0.50
XYLENES (TOTAL)	UG/L	<1.0
FUEL HYDROCARBONS	UG/L	<50
HYDROCARBON RANGE		C6-C12
HYDROCARBONS QUANTITATED USING		GASOLINE
SURROGATES		
TRIFLUOROTOLUENE	%	92

MSMSD

Test : MOD EPA 8015-CDOHS (FUEL HYDROCARBONS/BTXE)
MSMSD # : 78043
Client : ALISTO ENGINEERING

Project # : G314386/10-005-03-001
Project Name: BP SITE#11109/4280 FOOTHILL BLVD., OAKLAND,CA

ATI I.D. : 508186
Date Extracted: N/A
Date Analyzed : 23-AUG-95
Sample Matrix : WATER
REF I.D. : 508170-01

Parameters	Units	Sample Result	Conc Spike	Spiked Sample	% Rec	Dup Spike	Dup % Rec	RPD
BENZENE	UG/L	<0.50	5.0	4.6	92	4.5	90	2
TOLUENE	UG/L	<0.50	5.0	5.0	100	5.0	100	0

% Recovery = (Spike Sample Result - Sample Result)*100/Spike Concentration
RPD (Relative % Difference) = (Spiked Sample Result - Duplicate Spike Result)*100/Average Result

GAS CHROMATOGRAPHY - QUALITY CONTROL

BLANK SPIKE

Test : MOD EPA 8015-CDOHS (FUEL HYDROCARBONS/BTXE)
Blank Spike #: 58496
Client : ALISTO ENGINEERING
Project # : G314386/10-005-03-001
Project Name : BP SITE#11109/4280 FOOTHILL BLVD., OAKLAND,CA

ATI I.D. : 508186
Date Extracted: N/A
Date Analyzed : 27-AUG-95
Sample Matrix : WATER

Parameters	Units	Blank Result	Spiked Sample	Spike Conc.	% Rec
BENZENE	UG/L	<0.50	5.1	5.0	102
TOLUENE	UG/L	<0.50	5.3	5.0	106

% Recovery = (Spike Sample Result - Sample Result)*100/Spike Concentration
RPD (Relative % Difference) = (Spiked Sample - Blank Result)*100/Average Result

GAS CHROMATOGRAPHY - QUALITY CONTROL

BLANK SPIKE

Test : MOD EPA 8015-CDOHS (FUEL HYDROCARBONS/BTXE)
Blank Spike #: 58497
Client : ALISTO ENGINEERING
Project # : G314386/10-005-03-001
Project Name : BP SITE#11109/4280 FOOTHILL BLVD., OAKLAND,CA

ATI I.D. : 508186
Date Extracted: N/A
Date Analyzed : 28-AUG-95
Sample Matrix : WATER

Parameters	Units	Blank Result	Spiked Sample	Spike Conc.	% Rec
BENZENE	UG/L	<0.50	4.9	5.0	98
TOLUENE	UG/L	<0.50	5.0	5.0	100

% Recovery = (Spike Sample Result - Sample Result)*100/Spike Concentration
RPD (Relative % Difference) = (Spiked Sample - Blank Result)*100/Average Result

ACCESSION #: 508186 INITIALS: LJ

ATI-SanDiego
SAMPLE CONDITION UPON RECEIPT CHECKLIST
(FOR RE-ACCESSIONS, COMPLETE #7 THRU #9)

1	Does this project require special handling according to NFESC Levels C, D, AFCEE or CLP protocols? If yes, complete a) and b) a) pH sample aliquoted: yes /no /na b) Either 1) Record Bottle Lot #'s: Or 2) Attach Sample Kit Request Form(s)	YES	(NO)
2	Number of Coolers Received If more than one cooler received attach Multiple Cooler Documentation Form (MCD) Indicate "see MCD" on Item 11 below	1 (#1169)	
3	Are custody seals required for this project ?	YES	(N/A)
	a) are Custody Seals present on Cooler(s) ?	YES	(NO)
	If yes, are seals intact ?	YES	NO
	b) are Custody Seals present on the sample ?	YES	(NO)
	If yes, are seals intact ?	YES	NO
4	Is there a Chain-Of-Custody (COC)' per cooler ? if not, if a problem is found indicate which samples/test were in the affected cooler on the MCD.	(YES)	NO
5	Is the COC' complete per cooler ? Relinquished: (yes)/no Requested analysis: (yes)/no	(YES)	NO
6	Is the COC' in agreement with the samples received? # Samples: (yes)/no Sample ID's: (yes)/no Date sampled: yes/(no) Matrix: (yes)/no # containers: (yes)/no	YES	(NO)
7	Are the samples preserved correctly?	(YES)	NO
8	Is there enough sample for all the requested analyses?	(YES)	NO
9	Are all samples within holding times for the requested analyses? *	(YES)	NO
10	Record cooler temperature. Contact PM if temperature is not 4°C ± 2°C.	4.7 °C	
	Is ice present in cooler?	(YES)	NO
11	Were all sample containers received intact (ie. not broken, leaking, etc.)?	YES	(NO)
12	Are samples requiring no headspace, headspace free? N/A	(YES)	NO
13	Are VOA 1st stickers required?	YES	(NO)
14	Are there special comments on the Chain of Custody which require client contact?	YES	(N/A)
15	If yes, was ATI Project Manager notified?	YES	NO

Describe "no" items: (6) No Sample Date on Samples OR COC. *UNKNOWN
(11) ONE VOA vial EACH for Sample STA#11109 INF (ATI#01) and STA# 11109 Q-C-1 (ATI #04), FROZEN in TRANSit. Received with bottoms broken off VOAS & Sample FROZEN. Two VOA vials REMAINing for EACH Sample

Was client contacted? (yes) no

If yes, Date: 8/22 Name of Person contacted: Pattie Felton by Gary Stewart

Describe actions taken or client instructions: Date Sampled is 8/17/05. Faxed amended C.O.C on 8/22/05.

*Or other representative documents, letters, and/or shipping memos

ATI # 509186

CHAIN OF CUSTODY

No. 061522 Page 1 of 1

CONSULTANT'S NAME	ADDRESS	CITY	STATE	ZIP CODE
ALISTO ENGINEERING	1575 TREAT Blvd. #201	WALNUT Creek	CA	94596

BP SITE NUMBER	BP CORNER ADDRESS/CITY	CONSULTANT PROJECT NUMBER
11109	4280 Foothill Blvd / OAKLAND, CA	10-005-02-001

CONSULTANT PROJECT MANAGER	PHONE NUMBER	FAX NUMBER	CONSULTANT CONTRACT NUMBER
PETE BEAVER	510 295-1650	510 295-1823	G314386

BP CONTACT	BP ADDRESS	PHONE NUMBER	FAX NO.
SCOTT HOUSTON	Renton, WA		

LAB CONTACT	LABORATORY ADDRESS	PHONE NUMBER	FAX NO.
KARY STEWART	San Diego, CA		

SAMPLED BY (Please Print Name)	SAMPLED BY (Signature)	SHIPMENT DATE	SHIPMENT METHOD
JOHN BICKING	John K. Bicking		Fed Ex

TAT: ☐ 24 Hours ☐ 48 Hours ☐ 1 Week ☒ Standard 2 Weeks

AIRBILL NUMBER 6680235571

ANALYSIS REQUIRED

SAMPLE DESCRIPTION	COLLECTION DATE / COLLECTION TIME	MATRIX SOIL/WATER	CONTAINERS NO.	CONTAINERS TYPE (VOL.)	PRESERVATIVE LAB SAMPLE #	TPH G BTEX	TPH D	COMMENTS
STA# 11105 INF	0700	GW	3	VOA	01	✓	✓	
			2	LT	↓	✓		
STA# 11109 A	0710		3	VOA	02	✓		
STA# 11109 L/F	0720		3	VOA	03	✓	✓	
			2	LT	↓	✓		
STA# 11109 Q.C-1	0730		3	VOA	04	✓		

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
John K Bicking	8/17	1210			
			ATI	8-24-95	09:10

ADDITIONAL COMMENTS: Witnessed by P. Yetton and Z. Edmond

Cooler # 11169 = 4.7°C

CLV-16722

Distribution: White - Original (with Data); Yellow - BP; Pink - Lab; Blue - Consultant Field Staff

Analytical**Technologies,** Inc. Corporate Offices: 5550 Morehouse Drive San Diego, CA 92121 (619) 458-9141

ATI I.D.: 509200

October 05, 1995

ALISTO ENGINEERING
1575 TREAT BOULEVARD, SUITE 201
WALNUT CREEK, CA 94598

Project Name: BP SITE#11109/4280 FOOTHILL BLVD. OAKLAND, CA
Project # : G314386/10-005-03-007

Attention: PETE BEAVER

Analytical Technologies, Inc. has received the following sample(s):

Date Received	Quantity	Matrix
September 20, 1995	3	WATER

The sample(s) were analyzed with EPA methodology or equivalent methods as specified in the enclosed analytical schedule. The symbol for "less than" indicates a value below the reportable detection limit. If any flags appear next to the analytical data in this report, please see the attached list of flag definitions.

The results of these analyses and the quality control data are enclosed. Please note that the Sample Condition Upon Receipt Checklist is included at the end of this report.

GARY STEWART
VOLATILES SUPERVISOR

for ALAN J. KLEINSCHMIDT
LABORATORY MANAGER

SAMPLE CROSS REFERENCE

Client : ALISTO ENGINEERING
Project # : G314386/10-005-03-007
Project Name: BP SITE#11109/4280 FOOTHILL BLVD. OAKLAND, CA

Report Date: October 05, 1995
ATI I.D. : 509200

ATI #	Client Description	Matrix	Date Collected
1	STA# 11109 INF	WATER	19-SEP-95
2	STA# 11109 A	WATER	19-SEP-95
3	STA# 11109 EFF	WATER	19-SEP-95

---TOTALS---

Matrix	# Samples
WATER	3

ATI STANDARD DISPOSAL PRACTICE

The sample(s) from this project will be disposed of in twenty-one (21) days from the date of this report. If an extended storage period is required, please contact our sample control department before the scheduled disposal date.

ANALYTICAL SCHEDULE

Client : ALISTO ENGINEERING
Project # : G314386/10-005-03-007
Project Name: BP SITE#11109/4280 FOOTHILL BLVD. OAKLAND, CA

ATI I.D.: 509200

Analysis	Technique/Description
MOD EPA 8015-CDOHS (FUEL HYDROCARBONS: C7-C24)	GC/FLAME IONIZATION DETECTOR
MOD EPA 8015-CDOHS/8020 (HYDROCARBONS C6-C12/BTXE)	GC/FLAME ION./PHOTO IONIZATION DETECTOR

GAS CHROMATOGRAPHY RESULTS

Test : MOD EPA 8015-CDOHS (FUEL HYDROCARBONS: C7-C24)
Client : ALISTO ENGINEERING ATI I.D. : 509200
Project # : G314386/10-005-03-007
Project Name: BP SITE#11109/4280 FOOTHILL BLVD. OAKLAND, CA

Sample #	Client ID	Matrix	Date Sampled	Date Extracted	Date Analyzed	Dil. Factor
1	STA# 11109 INF	WATER	19-SEP-95	22-SEP-95	25-SEP-95	1.00
3	STA# 11109 EFF	WATER	19-SEP-95	22-SEP-95	26-SEP-95	1.00

Parameter	Units	1	3
FUEL HYDROCARBONS	MG/L	3.6	<0.05
HYDROCARBON RANGE		C7-C14	-
HYDROCARBONS QUANTITATED USING		GASOLINE	-
SURROGATES			
BIS(2-ETHYLHEXYL)PHTHALATE	%	109	113

GAS CHROMATOGRAPHY - QUALITY CONTROL

REAGENT BLANK

Test : MOD EPA 8015-CDOHS (FUEL HYDROCARBONS)
Blank I.D. : 36864
Client : ALISTO ENGINEERING
Project # : G314386/10-005-03-007
Project Name: BP SITE#11109/4280 FOOTHILL BLVD. OAKLAND, CA

ATI I.D. : 509200
Date Extracted: 22-SEP-95
Date Analyzed : 25-SEP-95
Dil. Factor : 1.00

Parameters	Units	Results
FUEL HYDROCARBONS	MG/L	<0.05
HYDROCARBON RANGE		-
HYDROCARBONS QUANTITATED USING		-
SURROGATES		
BIS(2-ETHYLHEXYL)PHTHALATE	%	106

GAS CHROMATOGRAPHY - QUALITY CONTROL

MSMSD

Test : MOD EPA 8015-CDOHS (FUEL HYDROCARBONS)
MSMSD # : 78786
Client : ALISTO ENGINEERING

Project # : G314386/10-005-03-007
Project Name: BP SITE#11109/4280 FOOTHILL BLVD. OAKLAND, CA

ATI I.D. : 509200
Date Extracted: 22-SEP-95
Date Analyzed : 25-SEP-95
Sample Matrix : WATER
REF I.D. : REAGENT WATER

Parameters	Units	Sample Result	Conc Spike	Spiked Sample	% Rec	Dup Spike	Dup % Rec	RPD
FUEL HYDROCARBONS	MG/L	<0.05	1.0	1.1	110	1.1	110	0

% Recovery = (Spike Sample Result - Sample Result)*100/Spike Concentration
RPD (Relative % Difference) = (Spiked Sample Result - Duplicate Spike Result)*100/Average Result

GAS CHROMATOGRAPHY RESULTS

Test : MOD EPA 8015-CDOHS/8020 (HYDROCARBONS C6-C12/BTXE)
Client : ALISTO ENGINEERING ATI I.D. : 509200
Project # : G314386/10-005-03-007
Project Name: BP SITE#11109/4280 FOOTHILL BLVD. OAKLAND, CA

Sample #	Client ID	Matrix	Date Sampled	Date Extracted	Date Analyzed	Dil. Factor
1	STA# 11109 INF	WATER	19-SEP-95	N/A	03-OCT-95	10.00
2	STA# 11109 A	WATER	19-SEP-95	N/A	03-OCT-95	1.00
3	STA# 11109 EFF	WATER	19-SEP-95	N/A	03-OCT-95	1.00

Parameter	Units	1	2	3
METHYL T-BUTYL ETHER	UG/L	79	<5.0	<5.0
BENZENE	UG/L	99	<0.50	<0.50
TOLUENE	UG/L	75	<0.50	<0.50
ETHYLBENZENE	UG/L	13	<0.50	<0.50
XYLENES (TOTAL)	UG/L	490	<1.0	<1.0
FUEL HYDROCARBONS	UG/L	4700	<50	<50
HYDROCARBON RANGE		C6-C12	C6-C12	C6-C12
HYDROCARBONS QUANTITATED USING		GASOLINE	GASOLINE	GASOLINE
SURROGATES				
TRIFLUOROTOLUENE	%	145*H	91	88

GAS CHROMATOGRAPHY - QUALITY CONTROL

REAGENT BLANK

Test : MOD EPA 8015-CDOHS (FUEL HYDROCARBONS/BTXE)
Blank I.D. : 36917
Client : ALISTO ENGINEERING
Project # : G314386/10-005-03-007
Project Name: BP SITE#11109/4280 FOOTHILL BLVD. OAKLAND, CA

ATI I.D. : 509200
Date Extracted: N/A
Date Analyzed : 03-OCT-95
Dil. Factor : 1.00

Parameters	Units	Results
METHYL T-BUTYL ETHER	UG/L	<5.0
BENZENE	UG/L	<0.50
TOLUENE	UG/L	<0.50
ETHYLBENZENE	UG/L	<0.50
XYLENES (TOTAL)	UG/L	<1.0
FUEL HYDROCARBONS	UG/L	<50
HYDROCARBON RANGE		C6-C12
HYDROCARBONS QUANTITATED USING		GASOLINE
SURROGATES		
TRIFLUOROTOLUENE	%	90

GAS CHROMATOGRAPHY - QUALITY CONTROL

MSMSD

Test : MOD EPA 8015-CDOHS (FUEL HYDROCARBONS/BTXE)
MSMSD # : 78838
Client : ALISTO ENGINEERING

Project # : G314386/10-005-03-007
Project Name: BP SITE#11109/4280 FOOTHILL BLVD. OAKLAND, CA

ATI I.D. : 509200
Date Extracted: N/A
Date Analyzed : 29-SEP-95
Sample Matrix : WATER
REF I.D. : 509164-10

Parameters	Units	Sample Result	Conc Spike	Spiked Sample	% Rec	Dup Spike	Dup % Rec	RPD
BENZENE	UG/L	<0.50	5.0	4.9	98	4.8	96	2
TOLUENE	UG/L	<0.50	5.0	5.2	104	5.3	106	2

% Recovery = (Spike Sample Result - Sample Result)*100/Spike Concentration
RPD (Relative % Difference) = (Spiked Sample Result - Duplicate Spike Result)*100/Average Result

GAS CHROMATOGRAPHY - QUALITY CONTROL

BLANK SPIKE

Test : MOD EPA 8015-CDOHS (FUEL HYDROCARBONS/BTXE)
Blank Spike #: 59185
Client : ALISTO ENGINEERING
Project # : G314386/10-005-03-007
Project Name : BP SITE#11109/4280 FOOTHILL BLVD. OAKLAND, CA

ATI I.D. : 509200
Date Extracted: N/A
Date Analyzed : 03-OCT-95
Sample Matrix : WATER

Parameters	Units	Blank Result	Spiked Sample	Spike Conc.	% Rec
BENZENE	UG/L	<0.50	4.7	5.0	94
TOLUENE	UG/L	<0.50	4.7	5.0	94

% Recovery = (Spike Sample Result - Sample Result)*100/Spike Concentration
RPD (Relative % Difference) = (Spiked Sample - Blank Result)*100/Average Result

ANALYTICAL TECHNOLOGIES, INC.
SAN DIEGO
FLAGS

ORGANICS

FLAG	MESSAGE DESCRIPTION
A	A TIC IS A SUSPECTED ALDOL-CONDENSATION PRODUCT
B	ANALYTE FOUND IN THE ASSOCIATED REAGENT BLANK
C	PESTICIDE, WHERE THE IDENTIFICATION WAS CONFIRMED BY GC/MS
CO	THESE COMPOUNDS CO-ELUTE AND ARE QUANTITATED AS ONE PEAK
D	COMPOUND IDENTIFIED IN AN ANALYSIS AT SECONDARY DILUTION
E	ANALYTE AMOUNT EXCEEDS THE CALIBRATION RANGE
J	ESTIMATED VALUE
H	QUANTIFIED AS DIESEL BUT CHROMATOGRAPHIC PATTERN DOES NOT MATCH THAT OF DIESEL
K	QUANTIFIED AS KEROSENE BUT CHROMATOGRAPHIC PATTERN DOES NOT MATCH THAT OF KEROSENE
L	QUANTIFIED AS GASOLINE BUT CHROMATOGRAPHIC PATTERN DOES NOT MATCH THAT OF GASOLINE
N	PRESUMPTIVE EVIDENCE OF A COMPOUND
P	PESTICIDE/AROCLOR TARGET ANALYTE, WHERE THERE IS GREATER THAN 25% DIFFERENCE FOR DETECTED CONCENTRATION BETWEEN 2 GC COLUMNS
TR	COMPOUND DETECTED AT AN UNQUANTIFIABLE TRACE LEVEL
U	COMPOUND WAS ANALYZED FOR BUT NOT DETECTED
X	SEE CASE NARRATIVE
Y	SEE CASE NARRATIVE
Z	SEE CASE NARRATIVE
*	OUTSIDE OF QUALITY CONTROL LIMITS
*D	COMPOUND ANALYZED FROM A SECONDARY ANALYSIS
*F	RESULT OUTSIDE OF ATI'S QUALITY CONTROL LIMITS
*G	RESULT OUTSIDE QUALITY CONTROL LIMITS. INSUFFICIENT SAMPLE FOR RE-EXTRACTION/ANALYSIS
*H	RESULT OUTSIDE OF LIMITS DUE TO SAMPLE MATRIX INTERFERENCE
*I	BECAUSE OF NECESSARY SAMPLE DILUTION, VALUE WAS OUTSIDE QC LIMITS
*K	DUE TO THE NECESSARY DILUTION OF THE SAMPLE, RESULT WAS NOT ATTAINABLE
*L	ANALYTE IS A SUSPECTED LAB CONTAMINANT
*P	A STANDARD WAS USED TO QUANTITATE THIS VALUE
*R	DATA IS NOT USABLE
*T	SURROGATE RECOVERY IS OUTSIDE QC CONTROL LIMITS. NO CORRECTIVE ACTION INDICATED BY METHOD
*V	SAMPLE RESULT IS >4X SPIKED CONCENTRATION, THEREFORE SPIKE IS NOT DETECTABLE
*Y	RESULT NOT ATTAINABLE DUE TO SAMPLE MATRIX INTERFERENCE
@A	RESULTS OUT OF LIMITS DUE TO SAMPLE NON-HOMOGENEITY
@C	*VARIABLE MESSAGE*
@D	RESULT COULD NOT BE CONFIRMED DUE TO MATRIX INTERFERENCE ON THE CONFIRMATION COLUMN
@E	RESULT MAY BE FALSELY ELEVATED DUE TO SAMPLE MATRIX INTERFERENCE
@F	RESULT OUTSIDE OF CONTRACT SPECIFIED QUALITY CONTROL LIMITS
@G	RESULT OUTSIDE OF CONTRACT SPECIFIED ADVISORY LIMITS
@H	DETECTION LIMIT ELEVATED DUE TO MATRIX INTERFERENCE
@M	RESULT NOT CONFIRMED BY U.V. DUE TO SAMPLE MATRIX INTERFERENCE
@N	RESULT NOT CONFIRMED BY FLUORESCENCE DUE TO SAMPLE MATRIX INTERFERENCE
@P	RESULT QUANTITATED USING FLUORESCENCE ONLY DUE TO THE LOW CONCENTRATION
@Q	DETECTION LIMIT ELEVATED DUE TO LIMITED SAMPLE FOR ANALYSIS
@T	RESULT DUE TO TCLP EXTRACTION MATRIX INTERFERENCE. NO QC LIMITS HAVE BEEN ESTABLISHED
@U	SAMPLE CHROMATOGRAM DOES NOT RESEMBLE COMMON FUEL HYDROCARBON FINGERPRINTS
@Z	SAMPLE CHROMATOGRAM DOES NOT RESEMBLE A FUEL HYDROCARBON

ACCESSION #: 509200 INITIALS: LY

ATI-SanDiego
SAMPLE CONDITION UPON RECEIPT CHECKLIST
(FOR RE-ACCESSIONS, COMPLETE #7 THRU #9)

1	Does this project require special handling according to NFESC Levels C, D, AFCEE or CLP protocols? If yes, complete a)and b) a) pH sample aliquoted: yes /no /na b) Either 1) Record Bottle Lot #'s: Or 2) Attach Sample Kit Request Form(s)	YES	(NO)
2	Number of Coolers Received If more than one cooler received attach Multiple Cooler Documentation Form (MCD) Indicate "see MCD"on Item 11 below	1 (#1065)	
3	Are custody seals required for this project ?	YES	(N/A)
	a) are Custody Seals present on Cooler(s) ?	YES	(NO)
	If yes, are seals intact ?	YES	NO
	b) are Custody Seals present on the sample ?	YES	(NO)
	If yes, are seals intact ?	YES	NO
4	Is there a Chain-Of-Custody (COC)* per cooler ? if not, if a problem is found indicate which samples/test were in the affected cooler on the MCD.	(YES)	NO
5	Is the COC* complete per cooler ? Relinquished: (yes)/no Requested analysis: (yes)/no	(YES)	NO
6	Is the COC* in agreement with the samples received? # Samples: (yes)/no Sample ID's: (yes)/no Date sampled: (yes)/no Matrix: (yes)/no # containers: (yes)/no	(YES)	NO
7	Are the samples preserved correctly?	(YES)	NO
8	Is there enough sample for all the requested analyses?	(YES)	NO
9	Are all samples within holding times for the requested analyses?	(YES)	NO
10	Record cooler temperature. Contact PM if temperature is not 4°C ± 2°C.	2.0 °C	
	Is ice present in cooler?	(YES)	NO
11	Were all sample containers received intact (ie. not broken, leaking, etc.)?	YES	(NO)
12	Are samples requiring no headspace, headspace free? N/A	(YES)	NO
13	Are VOA 1st stickers required?	YES	(NO)
14	Are there special comments on the Chain of Custody which require client contact?	YES	(N/A)
15	If yes, was ATL Project Manager notified?	YES	NO

Describe "no" items: (11) ONE VOA VIAL for STA#11109 INF(ATI#01) Received with CAP CRACKED (Sample still HEADSPACE FREE). TWO VOA VIALS Remaining.

Was client contacted? yes / no.

If yes, Date: _____ Name of Person contacted:

Describe actions taken or client instructions:

*Or other representative documents, letters, and/or shipping memos

ATT #5092.00

CHAIN OF CUSTODY

No. 067395 Page 1 of 1

CONSULTANT'S NAME	ADDRESS	CITY	STATE	ZIP CODE
Alisto Engineering	1515 Treat Blvd. Ste #201	Walnut Creek	CA	94596

BP SITE NUMBER	BP CORNER ADDRESS/CITY	CONSULTANT PROJECT NUMBER
11109	4280 Foothill Blvd. OAKLAND CA	10 005-03-009

CONSULTANT PROJECT MANAGER	PHONE NUMBER	FAX NUMBER	CONSULTANT CONTRACT NUMBER
Pete Beaver	510 295-1650	510-295-1823	G314386

BP CONTACT	BP ADDRESS	PHONE NUMBER	FAX NO.
Scott Hooten	Benton, WA	(206) 251-8200	

LAB CONTACT	LABORATORY ADDRESS	PHONE NUMBER	FAX NO.
Gary Stewart	San Diego, CA	(619) 458-9141	

SAMPLED BY (Please Print Name)	SAMPLED BY (Signature)	SHIPMENT DATE	SHIPMENT METHOD
John Bicking	John K. Bicking	9-19-95	Hand Del.

TAT: ☐ 24 Hours ☐ 48 Hours ☐ 1 Week ☒ Standard 2 Weeks

ANALYSIS REQUIRED

AIRBILL NUMBER: [illegible]

SAMPLE DESCRIPTION	COLLECTION DATE / TIME	MATRIX SOIL/WATER	CONTAINERS NO.	CONTAINERS TYPE (VOL.)	PRESERVATIVE / LAB SAMPLE #	HCl TPH & BTEX	HCl TPH-D						COMMENTS
STA# 11109 INF	1000	GW	5	L/VOA	01	✓	✓						
STA# 11109 A	1005		3	VOA	02	✓							
STA# 11109-EFF	1010	↓	5	L/VOA	03	✓	✓						

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
John K. Bicking	9/19/95	1210	Patricia Colton	9/19/95	1215
Patricia Colton	9/19/95	1330	[illegible] / ATT	9/20/95	09:15

ADDITIONAL COMMENTS

Cooler # 1065 = 2.0°

CLV-16722
PKG/50

Distribution: White - Original (with Data)
Yellow - BP
Pink - Lab
Blue - Consultant Field Staff

Analytical**Technologies,** Inc. Corporate Offices: 5550 Morehouse Drive San Diego, CA 92121 (619) 458-9141

ATI I.D.: 510233

November 14, 1995

ALISTO ENGINEERING
1575 TREAT BOULEVARD, SUITE 201
WALNUT CREEK, CA 94598

Project Name: BP SITE#11109/4280 FOOTHILL BLVD, OAKLAND
Project # : G314386/10-005-03-001

Attention: PETER BEAVER

Analytical Technologies, Inc. has received the following sample(s):

Date Received	Quantity	Matrix
October 20, 1995	7	WATER

The sample(s) were analyzed with EPA methodology or equivalent methods as specified in the enclosed analytical schedule. The symbol for "less than" indicates a value below the reportable detection limit. If any flags appear next to the analytical data in this report, please see the attached list of flag definitions.

The results of these analyses and the quality control data are enclosed. Please note that the Sample Condition Upon Receipt Checklist is included at the end of this report.

Please note EPA MOD 8015 analyses was performed by Analytical Technologies, Inc. Renton, WA.

GARY STEWART
VOLATILES SUPERVISOR

ALAN J. KLEINSCHMIDT
FOR LABORATORY MANAGER

RECEIVED
NOV 20 1995

SAMPLE CROSS REFERENCE

Client : ALISTO ENGINEERING
Project # : G314386/10-005-03-001
Project Name: BP SITE#11109/4280 FOOTHILL BLVD, OAKLAND

Report Date: November 14, 1995
ATI I.D. : 510233

ATI #	Client Description	Matrix	Date Collected
1	INF. 1425	WATER	18-OCT-95
2	EFF. 1405	WATER	18-OCT-95
3	EFF. 1400	WATER	18-OCT-95
4	INF. 1420	WATER	18-OCT-95
5	A 1410	WATER	18-OCT-95
6	A 1415	WATER	18-OCT-95
7	QC-1 1430	WATER	18-OCT-95

---TOTALS---

Matrix	# Samples
WATER	7

ATI STANDARD DISPOSAL PRACTICE

The sample(s) from this project will be disposed of in twenty-one (21) days from the date of this report. If an extended storage period is required, please contact our sample control department before the scheduled disposal date.

ANALYTICAL SCHEDULE

Client : ALISTO ENGINEERING
Project # : G314386/10-005-03-001
Project Name: BP SITE#11109/4280 FOOTHILL BLVD, OAKLAND

ATI I.D.: 510233

Analysis	Technique/Description
EPA 624 (GC/MS FOR VOLATILE ORGANICS)	GC/MASS SPECTROMETER
MOD EPA 8015-CDOHS (HYDROCARBONS C6-C12)	GC/PURGE & TRAP/FLAME ION. DETECTOR

GAS CHROMATOGRAPHY/MASS SPECTROSCOPY RESULTS

Test : EPA 624 (GC/MS FOR VOLATILE ORGANICS)
Client : ALISTO ENGINEERING ATI I.D. : 510233
Project # : G314386/10-005-03-001
Project Name: BP SITE#11109/4280 FOOTHILL BLVD, OAKLAND

Sample #	Client ID	Matrix	Date Sampled	Date Extracted	Date Analyzed	Dil. Factor
1	INF. 1425	WATER	18-OCT-95	N/A	24-OCT-95	1.00
2	EFF. 1405	WATER	18-OCT-95	N/A	24-OCT-95	1.00
6	A 1415	WATER	18-OCT-95	N/A	24-OCT-95	1.00

Parameter	Units	1	2	6
CHLOROMETHANE	UG/L	<10	<10	<10
VINYL CHLORIDE	UG/L	<5	<5	<5
BROMOMETHANE	UG/L	<10	<10	<10
CHLOROETHANE	UG/L	<5	<5	<5
ACETONE	UG/L	<10	<10	<10
1,1-DICHLOROETHENE	UG/L	<1	<1	<1
METHYLENE CHLORIDE	UG/L	<5	<5	<5
CARBON DISULFIDE	UG/L	<2	<2	<2
TRANS-1,2-DICHLOROETHENE	UG/L	<1	<1	<1
1,1-DICHLOROETHANE	UG/L	<1	<1	<1
CIS-1,2-DICHLOROETHENE	UG/L	<1	<1	<1
CHLOROFORM	UG/L	<1	<1	<1
2-BUTANONE (MEK)	UG/L	<10	<10	<10
1,1,1-TRICHLOROETHANE	UG/L	<1	<1	<1
CARBON TETRACHLORIDE	UG/L	<1	<1	<1
1,2-DICHLOROETHANE	UG/L	1	<1	<1
BENZENE	UG/L	37	<1	<1
TRICHLOROETHENE	UG/L	<1	<1	<1
1,2-DICHLOROPROPANE	UG/L	<1	<1	<1
BROMODICHLOROMETHANE	UG/L	<1	<1	<1
4-METHYL-2-PENTANONE (MIBK)	UG/L	<10	<10	<10
CIS-1,3-DICHLOROPROPENE	UG/L	<1	<1	<1
TOLUENE	UG/L	20	<2	<2
TRANS-1,3-DICHLOROPROPENE	UG/L	<1	<1	<1
2-HEXANONE (MBK)	UG/L	<10	<10	<10
1,1,2-TRICHLOROETHANE	UG/L	<1	<1	<1
TETRACHLOROETHENE	UG/L	<1	<1	<1
DIBROMOCHLOROMETHANE	UG/L	<1	<1	<1
CHLOROBENZENE	UG/L	<1	<1	<1
ETHYLBENZENE	UG/L	<1	<1	<1
XYLENES (TOTAL)	UG/L	360	<1	<1
STYRENE	UG/L	<2	<2	<2
BROMOFORM	UG/L	<5	<5	<5
1,1,2,2-TETRACHLOROETHANE	UG/L	<1	<1	<1
DICHLORODIFLUOROMETHANE	UG/L	<10	<10	<10
TRICHLOROFLUOROMETHANE	UG/L	<5	<5	<5
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	UG/L	<5	<5	<5
1,2-DICHLOROBENZENE	UG/L	<5	<5	<5

GAS CHROMATOGRAPHY/MASS SPECTROSCOPY RESULTS

Test : EPA 624 (GC/MS FOR VOLATILE ORGANICS)
Client : ALISTO ENGINEERING ATI I.D. : 510233
Project # : G314386/10-005-03-001
Project Name: BP SITE#11109/4280 FOOTHILL BLVD, OAKLAND

Sample #	Client ID	Matrix	Date Sampled	Date Extracted	Date Analyzed	Dil. Factor
1	INF. 1425	WATER	18-OCT-95	N/A	24-OCT-95	1.00
2	EFF. 1405	WATER	18-OCT-95	N/A	24-OCT-95	1.00
6	A 1415	WATER	18-OCT-95	N/A	24-OCT-95	1.00

Parameter	Units	1	2	6
1,3-DICHLOROBENZENE	UG/L	<5	<5	<5
1,4-DICHLOROBENZENE	UG/L	<5	<5	<5
SURROGATES				
1,2-DICHLOROETHANE-D4	%	93	97	97
TOLUENE-D8	%	107	104	105
BFB	%	105	99	99

ADDITIONAL COMPOUNDS (SEMI-QUANTITATED)

Method : EPA 624 (GC/MS FOR VOLATILE ORGANICS) WATER
Client : ALISTO ENGINEERING ATI I.D.: 510233
Project # : G314386/10-005-03-001
Project Name: BP SITE#11109/4280 FOOTHILL BLVD, OAKLAND

Sample	Parameters	Units	Results
1	ALIPHATIC HYDROCARBON C5	UG/L	100
	ALIPHATIC HYDROCARBON C5	UG/L	100
	METHYL CYCLOPENTANE	UG/L	200
	METHYL CYCLOHEXANE	UG/L	200
	TRIMETHYL BENZENE ISOMER	UG/L	100
2	NONE DETECTED	N/A	N/A
6	NONE DETECTED	N/A	N/A

GAS CHROMATOGRAPHY/MASS SPECTROSCOPY RESULTS

Test : EPA 624 (GC/MS FOR VOLATILE ORGANICS)
Client : ALISTO ENGINEERING ATI I.D. : 510233
Project # : G314386/10-005-03-001
Project Name: BP SITE#11109/4280 FOOTHILL BLVD, OAKLAND

Sample #	Client ID	Matrix	Date Sampled	Date Extracted	Date Analyzed	Dil. Factor
7	QC-1 1430	WATER	18-OCT-95	N/A	24-OCT-95	1.00

Parameter	Units	7
CHLOROMETHANE	UG/L	<10
VINYL CHLORIDE	UG/L	<5
BROMOMETHANE	UG/L	<10
CHLOROETHANE	UG/L	<5
ACETONE	UG/L	<10
1,1-DICHLOROETHENE	UG/L	<1
METHYLENE CHLORIDE	UG/L	<5
CARBON DISULFIDE	UG/L	<2
TRANS-1,2-DICHLOROETHENE	UG/L	<1
1,1-DICHLOROETHANE	UG/L	<1
CIS-1,2-DICHLOROETHENE	UG/L	<1
CHLOROFORM	UG/L	<1
2-BUTANONE (MEK)	UG/L	<10
1,1,1-TRICHLOROETHANE	UG/L	<1
CARBON TETRACHLORIDE	UG/L	<1
1,2-DICHLOROETHANE	UG/L	<1
BENZENE	UG/L	<1
TRICHLOROETHENE	UG/L	<1
1,2-DICHLOROPROPANE	UG/L	<1
BROMODICHLOROMETHANE	UG/L	<1
4-METHYL-2-PENTANONE (MIBK)	UG/L	<10
CIS-1,3-DICHLOROPROPENE	UG/L	<1
TOLUENE	UG/L	<2
TRANS-1,3-DICHLOROPROPENE	UG/L	<1
2-HEXANONE (MBK)	UG/L	<10
1,1,2-TRICHLOROETHANE	UG/L	<1
TETRACHLOROETHENE	UG/L	<1
DIBROMOCHLOROMETHANE	UG/L	<1
CHLOROBENZENE	UG/L	<1
ETHYLBENZENE	UG/L	<1
XYLENES (TOTAL)	UG/L	<1
STYRENE	UG/L	<2
BROMOFORM	UG/L	<5
1,1,2,2-TETRACHLOROETHANE	UG/L	<1
DICHLORODIFLUOROMETHANE	UG/L	<10
TRICHLOROFLUOROMETHANE	UG/L	<5
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	UG/L	<5
1,2-DICHLOROBENZENE	UG/L	<5

GAS CHROMATOGRAPHY/MASS SPECTROSCOPY RESULTS

Test : EPA 624 (GC/MS FOR VOLATILE ORGANICS)
Client : ALISTO ENGINEERING ATI I.D. : 510233
Project # : G314386/10-005-03-001
Project Name: BP SITE#11109/4280 FOOTHILL BLVD, OAKLAND

Sample #	Client ID	Matrix	Date Sampled	Date Extracted	Date Analyzed	Dil. Factor
7	QC-1 1430	WATER	18-OCT-95	N/A	24-OCT-95	1.00

Parameter	Units	7
1,3-DICHLOROBENZENE	UG/L	<5
1,4-DICHLOROBENZENE	UG/L	<5
SURROGATES		
1,2-DICHLOROETHANE-D4	%	99
TOLUENE-D8	%	102
BFB	%	99

ADDITIONAL COMPOUNDS (SEMI-QUANTITATED)

Method : EPA 624 (GC/MS FOR VOLATILE ORGANICS) WATER
Client : ALISTO ENGINEERING ATI I.D.: 510233
Project # : G314386/10-005-03-001
Project Name: BP SITE#11109/4280 FOOTHILL BLVD, OAKLAND

Sample	Parameters	Units	Results
7	NONE DETECTED	N/A	N/A

GAS CHROMATOGRAPHY/MASS SPECTROSCOPY - QUALITY CONTROL

REAGENT BLANK

Test : EPA 8240 (GC/MS FOR VOLATILE ORGANICS)
Blank I.D. : 37148
Client : ALISTO ENGINEERING
Project # : G314386/10-005-03-001
Project Name: BP SITE#11109/4280 FOOTHILL BLVD, OAKLAND

ATI I.D. : 510233
Date Extracted: N/A
Date Analyzed : 24-OCT-95
Dil. Factor : 1.00

Parameters	Units	Results
CHLOROMETHANE	UG/L	<10
VINYL CHLORIDE	UG/L	<5
BROMOMETHANE	UG/L	<10
CHLOROETHANE	UG/L	<5
ACETONE	UG/L	<10
1,1-DICHLOROETHENE	UG/L	<1
METHYLENE CHLORIDE	UG/L	<5
CARBON DISULFIDE	UG/L	<2
TRANS-1,2-DICHLOROETHENE	UG/L	<1
1,1-DICHLOROETHANE	UG/L	<1
CIS-1,2-DICHLOROETHENE	UG/L	<1
CHLOROFORM	UG/L	<1
2-BUTANONE (MEK)	UG/L	<10
1,1,1-TRICHLOROETHANE	UG/L	<1
CARBON TETRACHLORIDE	UG/L	<1
1,2-DICHLOROETHANE	UG/L	<1
BENZENE	UG/L	<1
TRICHLOROETHENE	UG/L	<1
1,2-DICHLOROPROPANE	UG/L	<1
BROMODICHLOROMETHANE	UG/L	<1
4-METHYL-2-PENTANONE (MIBK)	UG/L	<10
CIS-1,3-DICHLOROPROPENE	UG/L	<1
TOLUENE	UG/L	<2
TRANS-1,3-DICHLOROPROPENE	UG/L	<1
2-HEXANONE (MBK)	UG/L	<10
1,1,2-TRICHLOROETHANE	UG/L	<1
TETRACHLOROETHENE	UG/L	<1
DIBROMOCHLOROMETHANE	UG/L	<1
CHLOROBENZENE	UG/L	<1
ETHYLBENZENE	UG/L	<1
XYLENES (TOTAL)	UG/L	<1
STYRENE	UG/L	<1
BROMOFORM	UG/L	<5
1,1,2,2-TETRACHLOROETHANE	UG/L	<2
DICHLORODIFLUOROMETHANE	UG/L	<10
TRICHLOROFLUOROMETHANE	UG/L	<5
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	UG/L	<5
1,2-DICHLOROBENZENE	UG/L	<5
1,3-DICHLOROBENZENE	UG/L	<5
1,4-DICHLOROBENZENE	UG/L	<5
SURROGATES		
1,2-DICHLOROETHANE-D4	%	98
TOLUENE-D8	%	104
BFB	%	97

GAS CHROMATOGRAPHY/MASS SPECTROSCOPY - QUALITY CONTROL

REAGENT BLANK
ADDITIONAL COMPOUNDS (SEMI-QUANTITATED)

Test : EPA 8240 (GC/MS FOR VOLATILE ORGANICS)
Blank I.D. : 37148 ATI I.D. : 510233
Client : ALISTO ENGINEERING
Project # : G314386/10-005-03-001
Project Name: BP SITE#11109/4280 FOOTHILL BLVD, OAKLAND

Parameters	Units	Results
NONE DETECTED	N/A	N/A

GAS CHROMATOGRAPHY/MASS SPECTROSCOPY - QUALITY CONTROL

MSMSD

Test : EPA 8240 (GC/MS FOR VOLATILE ORGANICS)
MSMSD # : 79349
Client : ALISTO ENGINEERING

Project # : G314386/10-005-03-001
Project Name: BP SITE#11109/4280 FOOTHILL BLVD, OAKLAND

ATI I.D. : 510233
Date Extracted: N/A
Date Analyzed : 23-OCT-95
Sample Matrix : WATER
REF I.D. : 510195-01

Parameters	Units	Sample Result	Conc Spike	Spiked Sample	% Rec	Dup Spike	Dup % Rec	RPD
1,1-DICHLOROETHENE	UG/L	<1	50	45	90	51	102	13
BENZENE	UG/L	<1	50	49	98	54	108	10
TRICHLOROETHENE	UG/L	<1	50	51	102	56	112	9
TOLUENE	UG/L	<2	50	52	104	55	110	6
CHLOROBENZENE	UG/L	<1	50	56	112	62	124	10

% Recovery = (Spike Sample Result - Sample Result)*100/Spike Concentration
RPD (Relative % Difference) = (Spiked Sample Result - Duplicate Spike Result)*100/Average Result

GAS CHROMATOGRAPHY/MASS SPECTROSCOPY - QUALITY CONTROL

BLANK SPIKE

Test : EPA 8240 (GC/MS FOR VOLATILE ORGANICS)
Blank Spike #: 59606
Client : ALISTO ENGINEERING
Project # : G314386/10-005-03-001
Project Name : BP SITE#11109/4280 FOOTHILL BLVD, OAKLAND

ATI I.D. : 510233
Date Extracted: N/A
Date Analyzed : 24-OCT-95
Sample Matrix : WATER

Parameters	Units	Blank Result	Spiked Sample	Spike Conc.	% Rec
1,1-DICHLOROETHENE	UG/L	<1	43	50	86
BENZENE	UG/L	<1	48	50	96
TRICHLOROETHENE	UG/L	<1	49	50	98
TOLUENE	UG/L	<2	50	50	100
CHLOROBENZENE	UG/L	<1	56	50	112

% Recovery = (Spike Sample Result - Sample Result)*100/Spike Concentration
RPD (Relative % Difference) = (Spiked Sample - Blank Result)*100/Average Result

Analytical Technologies, Inc.
560 Naches Avenue, S.W., Suite 101, Renton, WA 98055 (206) 228-8335
John M. Buerger, Laboratory Manager

ATI I.D. # 510127

November 10, 1995

Analytical Technologies, Inc.
5550 Morehouse Drive
San Diego CA 92121

Attention : Gary Stewart

Project Number : 510233

Project Name : BP# 11109

Dear Mr. Stewart:

On October 26, 1995, Analytical Technologies, Inc. (ATI), received four samples for analysis. The samples were analyzed with EPA methodology or equivalent methods as specified in the attached analytical schedule. The results, sample cross reference, and quality control data are enclosed.

Sincerely,

Victoria L. Bayly
Project Manager

VLB/hal/elf

Enclosure

Analytical Technologies, Inc.

ATI I.D. # 510127

SAMPLE CROSS REFERENCE SHEET

CLIENT : ANALYTICAL TECHNOLOGIES, INC.
PROJECT # : 510233
PROJECT NAME : BP# 11109

ATI #	CLIENT DESCRIPTION	DATE SAMPLED	MATRIX
510127-1	EFF. 1400	10/18/95	WATER
510127-2	INF. 1420	10/18/95	WATER
510127-3	A 1410	10/18/95	WATER
510127-4	QC-1 1430	10/18/95	WATER

----- TOTALS -----

MATRIX	# SAMPLES
WATER	4

ATI STANDARD DISPOSAL PRACTICE

The samples from this project will be disposed of in thirty (30) days from the date of the report. If an extended storage period is required, please contact our sample control department before the scheduled disposal date.

Analytical Technologies, Inc.

ATI I.D. # 510127

ANALYTICAL SCHEDULE

CLIENT : ANALYTICAL TECHNOLOGIES, INC.
PROJECT # : 510233
PROJECT NAME : BP# 11109

ANALYSIS	TECHNIQUE	REFERENCE	LAB
FUEL HYDROCARBONS	GC/FID	EPA 8015 MODIFIED-CDOHS	R

R = ATI - Renton
SD = ATI - San Diego
PHX = ATI - Phoenix
PTL = ATI - Portland
ANC = ATI - Anchorage
PNR = ATI - Pensacola
FC = ATI - Fort Collins
SUB = Subcontract

Analytical Technologies, Inc.

ATI I.D. # 510127

FUEL HYDROCARBONS ANALYSIS
DATA SUMMARY

CLIENT	: ANALYTICAL TECHNOLOGIES, INC.	DATE SAMPLED	: N/A
PROJECT #	: 510233	DATE RECEIVED	: N/A
PROJECT NAME	: BP# 11109	DATE EXTRACTED	: N/A
CLIENT I.D.	: METHOD BLANK	DATE ANALYZED	: 10/27/95
SAMPLE MATRIX	: WATER	UNITS	: ug/L
EPA METHOD	: 8015 MODIFIED-CDOHS	DILUTION FACTOR	: 1

COMPOUNDS	RESULTS
FUEL HYDROCARBONS	<50
HYDROCARBON RANGE	BENZENE TO DODECANE
HYDROCARBON QUANTITATION USING	GASOLINE

SURROGATE PERCENT RECOVERY		LIMITS
TRIFLUOROTOLUENE	94	50 - 150

Analytical Technologies, Inc.

ATI I.D. # 510127

FUEL HYDROCARBONS ANALYSIS
DATA SUMMARY

CLIENT	: ANALYTICAL TECHNOLOGIES, INC.	DATE SAMPLED	: N/A
PROJECT #	: 510233	DATE RECEIVED	: N/A
PROJECT NAME	: BP# 11109	DATE EXTRACTED	: N/A
CLIENT I.D.	: METHOD BLANK	DATE ANALYZED	: 10/28/95
SAMPLE MATRIX	: WATER	UNITS	: ug/L
EPA METHOD	: 8015 MODIFIED-CDOHS	DILUTION FACTOR	: 1

COMPOUNDS	RESULTS
FUEL HYDROCARBONS	<50
HYDROCARBON RANGE	BENZENE TO DODECANE
HYDROCARBON QUANTITATION USING	GASOLINE

SURROGATE PERCENT RECOVERY		LIMITS
TRIFLUOROTOLUENE	96	50 - 150

Analytical Technologies, Inc.

ATI I.D. # 510127

FUEL HYDROCARBONS ANALYSIS
DATA SUMMARY

CLIENT	: ANALYTICAL TECHNOLOGIES, INC.	DATE SAMPLED	: N/A
PROJECT #	: 510233	DATE RECEIVED	: N/A
PROJECT NAME	: BP# 11109	DATE EXTRACTED	: N/A
CLIENT I.D.	: METHOD BLANK	DATE ANALYZED	: 10/30/95
SAMPLE MATRIX	: WATER	UNITS	: ug/L
EPA METHOD	: 8015 MODIFIED-CDOHS	DILUTION FACTOR	: 1

COMPOUNDS	RESULTS
FUEL HYDROCARBONS	<50
HYDROCARBON RANGE	BENZENE TO DODECANE
HYDROCARBON QUANTITATION USING	GASOLINE

SURROGATE PERCENT RECOVERY		LIMITS
TRIFLUOROTOLUENE	96	50 - 150

Analytical Technologies, Inc.

ATI I.D. # 510127-1

FUEL HYDROCARBONS ANALYSIS
DATA SUMMARY

CLIENT	: ANALYTICAL TECHNOLOGIES, INC.	DATE SAMPLED	: 10/18/95
PROJECT #	: 510233	DATE RECEIVED	: 10/26/95
PROJECT NAME	: BP# 11109	DATE EXTRACTED	: N/A
CLIENT I.D.	: EFF. 1400	DATE ANALYZED	: 10/28/95
SAMPLE MATRIX	: WATER	UNITS	: ug/L
EPA METHOD	: 8015 MODIFIED-CDOHS	DILUTION FACTOR	: 1

COMPOUNDS	RESULTS
FUEL HYDROCARBONS	<50
HYDROCARBON RANGE	BENZENE TO DODECANE
HYDROCARBON QUANTITATION USING	GASOLINE

SURROGATE PERCENT RECOVERY		LIMITS
TRIFLUOROTOLUENE	91	50 - 150

Analytical Technologies, Inc.

ATI I.D. # 510127-2

FUEL HYDROCARBONS ANALYSIS
DATA SUMMARY

CLIENT	: ANALYTICAL TECHNOLOGIES, INC.	DATE SAMPLED	: 10/18/95
PROJECT #	: 510233	DATE RECEIVED	: 10/26/95
PROJECT NAME	: BP# 11109	DATE EXTRACTED	: N/A
CLIENT I.D.	: INF. 1420	DATE ANALYZED	: 10/30/95
SAMPLE MATRIX	: WATER	UNITS	: ug/L
EPA METHOD	: 8015 MODIFIED-CDOHS	DILUTION FACTOR	: 1

COMPOUNDS	RESULTS
FUEL HYDROCARBONS	3900
HYDROCARBON RANGE	BENZENE TO DODECANE
HYDROCARBON QUANTITATION USING	GASOLINE

SURROGATE PERCENT RECOVERY		LIMITS
TRIFLUOROTOLUENE	107	50 - 150

Analytical Technologies, Inc.

ATI I.D. # 510127-3

FUEL HYDROCARBONS ANALYSIS
DATA SUMMARY

CLIENT	: ANALYTICAL TECHNOLOGIES, INC.	DATE SAMPLED	: 10/18/95
PROJECT #	: 510233	DATE RECEIVED	: 10/26/95
PROJECT NAME	: BP# 11109	DATE EXTRACTED	: N/A
CLIENT I.D.	: A 1410	DATE ANALYZED	: 10/28/95
SAMPLE MATRIX	: WATER	UNITS	: ug/L
EPA METHOD	: 8015 MODIFIED-CDOHS	DILUTION FACTOR	: 1

COMPOUNDS	RESULTS
FUEL HYDROCARBONS	<50
HYDROCARBON RANGE	BENZENE TO DODECANE
HYDROCARBON QUANTITATION USING	GASOLINE

SURROGATE PERCENT RECOVERY		LIMITS
TRIFLUOROTOLUENE	93	50 - 150

Analytical Technologies, Inc.

ATI I.D. # 510127-4

FUEL HYDROCARBONS ANALYSIS
DATA SUMMARY

CLIENT	: ANALYTICAL TECHNOLOGIES, INC.	DATE SAMPLED	: 10/18/95
PROJECT #	: 510233	DATE RECEIVED	: 10/26/95
PROJECT NAME	: BP# 11109	DATE EXTRACTED	: N/A
CLIENT I.D.	: QC-1 1430	DATE ANALYZED	: 10/29/95
SAMPLE MATRIX	: WATER	UNITS	: ug/L
EPA METHOD	: 8015 MODIFIED-CDOHS	DILUTION FACTOR	: 1

COMPOUNDS	RESULTS
FUEL HYDROCARBONS	<50
HYDROCARBON RANGE	BENZENE TO DODECANE
HYDROCARBON QUANTITATION USING	GASOLINE

SURROGATE PERCENT RECOVERY		LIMITS
TRIFLUOROTOLUENE	93	50 - 150

Analytical Technologies, Inc.

ATI I.D. # 510127

FUEL HYDROCARBONS ANALYSIS
QUALITY CONTROL DATA

CLIENT	: ANALYTICAL TECHNOLOGIES, INC.	SAMPLE I.D. #	: BLANK
PROJECT #	: 510233	DATE EXTRACTED	: N/A
PROJECT NAME	: BP# 11109	DATE ANALYZED	: 10/27/95
SAMPLE MATRIX	: WATER	UNITS	: ug/L
EPA METHOD	: 8015 MODIFIED - CDOHS		

COMPOUNDS	SAMPLE RESULT	SPIKE ADDED	SPIKED RESULT	% REC.	DUP. SPIKED SAMPLE	DUP. % REC.	RPD
GASOLINE	<50.0	1000	939	94	N/A	N/A	N/A

CONTROL LIMITS	% REC.	RPD
GASOLINE	78 - 116	20

SURROGATE RECOVERIES	SPIKE	DUP. SPIKE	LIMITS
TRIFLUOROTOLUENE	90	N/A	50 - 150

Analytical Technologies, Inc.

ATI I.D. # 510127

FUEL HYDROCARBONS ANALYSIS
QUALITY CONTROL DATA

CLIENT	: ANALYTICAL TECHNOLOGIES, INC.	SAMPLE I.D. #	: BLANK
PROJECT #	: 510233	DATE EXTRACTED	: N/A
PROJECT NAME	: BP# 11109	DATE ANALYZED	: 10/28/95
SAMPLE MATRIX	: WATER	UNITS	: ug/L
EPA METHOD	: 8015 MODIFIED-CDOHS		

COMPOUNDS	SAMPLE RESULT	SPIKE ADDED	SPIKED RESULT	% REC.	DUP. SPIKED SAMPLE	DUP. % REC.	RPD
GASOLINE	<50.0	1000	1010	101	N/A	N/A	N/A

CONTROL LIMITS	% REC.	RPD
GASOLINE	78 - 116	20

SURROGATE RECOVERIES	SPIKE	DUP. SPIKE	LIMITS
TRIFLUOROTOLUENE	96	N/A	50 - 150

Analytical Technologies, Inc.

ATI I.D. # 510127

FUEL HYDROCARBONS ANALYSIS
QUALITY CONTROL DATA

CLIENT : ANALYTICAL TECHNOLOGIES, INC.
PROJECT # : 510233
PROJECT NAME : BP# 11109
SAMPLE MATRIX : WATER
EPA METHOD : 8015 MODIFIED-CDOHS

SAMPLE I.D. # : BLANK
DATE EXTRACTED : N/A
DATE ANALYZED : 10/30/95
UNITS : ug/L

COMPOUNDS	SAMPLE RESULT	SPIKE ADDED	SPIKED RESULT	% REC.	DUP. SPIKED SAMPLE	DUP. % REC.	RPD
GASOLINE	<50.0	1000	970	97	N/A	N/A	N/A
CONTROL LIMITS				% REC.			RPD
GASOLINE				78 - 116			20
SURROGATE RECOVERIES		SPIKE		DUP. SPIKE		LIMITS	
TRIFLUOROTOLUENE		94		N/A		50 - 150	

Analytical Technologies, Inc.

ATI I.D. # 510127

FUEL HYDROCARBONS ANALYSIS
QUALITY CONTROL DATA

CLIENT	: ANALYTICAL TECHNOLOGIES, INC.	SAMPLE I.D. #	: 510125-1
PROJECT #	: 510233	DATE EXTRACTED	: N/A
PROJECT NAME	: BP# 11109	DATE ANALYZED	: 10/28/95
SAMPLE MATRIX	: WATER	UNITS	: ug/L
EPA METHOD	: 8015 MODIFIED - CDOHS		

COMPOUND	SAMPLE RESULT	SAMPLE DUP. RESULT	RPD	SPIKE ADDED	SPIKED RESULT	% REC.	DUP. SPIKED RESULT	DUP. % REC.	RPD
GASOLINE	<50.0	<50.0	NC	N/A	N/A	N/A	N/A	N/A	N/A

CONTROL LIMITS	% REC.	RPD
GASOLINE	N/A	20

SURROGATE RECOVERIES	SAMPLE	SAMPLE DUP.	LIMITS
TRIFLUOROTOLUENE	90	90	50 - 150

NC = Not calculable.

Analytical Technologies, Inc.

ATI I.D. # 510127

FUEL HYDROCARBONS ANALYSIS
QUALITY CONTROL DATA

CLIENT	: ANALYTICAL TECHNOLOGIES, INC.	SAMPLE I.D. #	: 510121-1
PROJECT #	: 510233	DATE EXTRACTED	: N/A
PROJECT NAME	: BP# 11109	DATE ANALYZED	: 10/27/95
SAMPLE MATRIX	: WATER	UNITS	: ug/L
EPA METHOD	: 8015 MODIFIED - CDOHS		

COMPOUND	SAMPLE RESULT	SAMPLE DUP. RESULT	RPD	SPIKE ADDED	SPIKED RESULT	% REC.	DUP. SPIKED RESULT	DUP. % REC.	RPD
GASOLINE	<50.0	<50.0	NC	1000	895	90	948	95	6

CONTROL LIMITS	% REC.	RPD
GASOLINE	80 - 113	20

SURROGATE RECOVERIES	SPIKE	DUP. SPIKE	LIMITS
TRIFLUOROTOLUENE	88	91	50 - 150

NC = Not calculable.

To Renton

Chain of Custody

510127

DATE 10/25/95 PAGE 1 OF 1

Analytical Technologies, Inc.
5550 MOREHOUSE DRIVE
SAN DIEGO, CA 92121-1709
(619) 458-9141

PROJECT MANAGER: Gary Stewart
COMPANY: ATI - SD
ADDRESS:

BILL TO:
COMPANY:
ADDRESS:

SAMPLERS: (Signature) ( ) PHONE NUMBER

SAMPLE ID	SAMPLE DATE	TIME	MATRIX	LAB ID
510233-03 (EFF. 1400)	10/18		H_2O	1
-04 (INF. 1420)				2
-05 (A 1410)				3
-07 (QC-1430)	↓		↓	4

Recommended Quantity and Preservative (Provide triple volume on QC Samples)

Petroleum Hydrocarbons 418.1	Oil and Grease 413.2	Gasoline (MOD 8015/DOHS)	Diesel (MOD 8015/DOHS)	Gasoline/BTXE (MOD 8015/8020) Maximum Contamination Level of Gasoline: 2ppm (water), 50ppm (Soil)	MOD 8015 (Unknown)	BTXE (8020)	Chlorinated Hydrocarbons (8010)	Aromatic Hydrocarbons (8020)	Chlorinated/Aromatic Hydrocarbons (8010/8020)	Organic Pb	Pesticides/PCB (8080)	Base/NEU/Acid Cmpds GC/MS (8270)	Volatile Cmpds GC/MS (8240)	Polynuclear Aromatic (8310)	CCR Metals	Priority Pollutant Metals	Fuel GAS Only	Number of Containers
1L (H_2SO_4)/100g	1L (H_2SO_4)/100g	4 oz (HCl)/50g	4 oz (HCl)/50g	2X40ml (HCl)/50g	4 oz (HCl)/50g	2X40ml (HCl)/50g	2X40ml (HCl)/50g	2X40ml (HCl)/50g	2X40ml (HCl)/50g	500ml/50g	1L/50g	1L/100g	2X40ml (HCl)/100g	1L/100g	500ml/100g	500ml/100g		
																X	X	3
																X	X	3
																X	X	3
																X	X	3 → 1B
																		1B

PROJECT INFORMATION		SAMPLE RECEIPT	
PROJECT NUMBER:	BP 11169	TOTAL NUMBER OF CONTAINERS	10
PROJECT NAME:	BP/Arisco	CHAIN OF CUSTODY SEALS Y/N/NA	N
PURCHASE ORDER NUMBER:		SEALS INTACT? Y/N/NA	NA
VIA:	AE	RECEIVED GOOD COND/COLD	Y/Y
TAT: ☐24HR ☐48HRS ☐72HRS ☐1WK ☐2WK		LAB NUMBER	510127

SAMPLE DISPOSAL INSTRUCTIONS

☐ ATI Disposal @ $5.00 each ☐ Return ☐ Pickup

Comments: Hold time = 11/1

RELINQUISHED BY: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature: Time: 1430	Signature: Time:	Signature: Time:
Printed Name: J. Graham Date: 10/25/95	Printed Name: Date:	Printed Name: Date:
Company: ATI - SD	Company:	Company:
RECEIVED BY: 1.	**RECEIVED BY: 2.**	**RECEIVED BY: (LAB) 3.**
Signature: Time: 1020	Signature: Time:	Signature: Time:
Printed Name: SUNNA KUNSLER Date: 10/26/95	Printed Name: Date:	Printed Name: Date:
Company: ATI-LA	Company:	Analytical Technologies, Inc.

DISTRIBUTION: White, Canary - ANALYTICAL TECHNOLOGIES, INC. • Pink - ORIGINATOR

ACCESSION #: 510233 INITIALS: LY

ATI-SanDiego
SAMPLE CONDITION UPON RECEIPT CHECKLIST
(FOR RE-ACCESSIONS, COMPLETE #7 THRU #9)

1	Does this project require special handling according to NFESC Levels C, D, AFCEE or CLP protocols? If yes, complete a) and b) a) pH sample aliquoted: yes /no /na b) Either 1) Record Bottle Lot #'s: Or 2) Attach Sample Kit Request Form(s)	YES	(NO)
2	Number of Coolers Received If more than one cooler received attach Multiple Cooler Documentation Form (MCD) Indicate "see MCD"on Item 11 below	1	
3	Are custody seals required for this project ?	YES	(N/A)
	a) are Custody Seals present on Cooler(s) ?	YES	(NO)
	If yes, are seals intact ?	YES	NO
	b) are Custody Seals present on the sample ?	YES	(NO)
	If yes, are seals intact ?	YES	NO
4	Is there a Chain-Of-Custody (COC)* per cooler ? if not, if a problem is found indicate which samples/test were in the affected cooler on the MCD.	(YES)	NO
5	Is the COC* complete per cooler ? Relinquished: (yes)/no Requested analysis: (yes)/no	(YES)	NO
6	Is the COC* in agreement with the samples received? # Samples: (yes)/no Sample ID's: (yes)/no Date sampled: (yes)/no Matrix: (yes)/no # containers: (yes)/no	(YES)	NO
7	Are the samples preserved correctly?	(YES)	NO
8	Is there enough sample for all the requested analyses?	(YES)	NO
9	Are all samples within holding times for the requested analyses?	(YES)	NO
10	Record cooler temperature. Contact PM if temperature is not 4°C ± 2°C.	2.9 °C	
	Is ice present in cooler?	(YES)	NO
11	Were all sample containers received intact (ie. not broken, leaking, etc.)?	(YES)	NO
12	Are samples requiring no headspace, headspace free? N/A	(YES)	NO
13	Are VOA 1st stickers required?	YES	(NO)
14	Are there special comments on the Chain of Custody which require client contact?	YES	(N/A)
15	If yes, was ATI Project Manager notified?	YES	NO

Describe "no" items: _____

Was client contacted? yes / no

If yes, Date: _____ Name of Person contacted:

Describe actions taken or client instructions: _____

*Or other representative documents, letters, and/or shipping memos

ATI # 510233

CHAIN OF CUSTODY

No. 066931 Page 1 of 1

CONSULTANT'S NAME	ADDRESS	CITY	STATE	ZIP CODE
Alisto Engineering Group	1515 Treat Blvd.	Walnut Creek	Ca.	94596

BP SITE NUMBER	BP CORNER ADDRESS/CITY	CONSULTANT PROJECT NUMBER
11109	4280 Foothill Blvd. Oakland	10-005-03-001

CONSULTANT PROJECT MANAGER	PHONE NUMBER	FAX NUMBER	CONSULTANT CONTRACT NUMBER
Peter Beaver	(510) 295-1650	(510) 295-1823	631438.0

BP CONTACT	BP ADDRESS	PHONE NUMBER	FAX NO.
Scott Hooten	Renton, Wa.		

LAB CONTACT	LABORATORY ADDRESS	PHONE NUMBER	FAX NO.
ATI	San Diego, Ca.	(619) 458-9111	

SAMPLED BY (Please Print Name)	SAMPLED BY (Signature)	SHIPMENT DATE	SHIPMENT METHOD
Clay DeBiaggio	Clay DeBiaggio	10-19-95	Fed Ex

TAT: ☐ 24 Hours ☐ 48 Hours ☐ 1 Week ☒ Standard 2 Weeks

ANALYSIS REQUIRED

AIRBILL NUMBER 6668 2356 2351

SAMPLE DESCRIPTION	COLLECTION DATE / COLLECTION TIME	MATRIX SOIL/WATER	CONTAINERS NO.	CONTAINERS TYPE (VOL.)	PRESERVATIVE LAB SAMPLE #	TPH-GAS	624	COMMENTS
Inf. 1425	10/18/95	H2O	3	Voa	01		X	17 lbs
Eff. 1405					02		X	
Eff. 1400					03	X		
Inf. 1420					04	X		
A 1410					05	X		
A 1415					06		X	
QC-1 1430					07	X	X	

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
Clay DeBiaggio	10/19/95	0830	Patricia Upton	10/19/95	1200
Patricia Upton	10/19/95	1500	[illegible] / ATI	10/20/95	09:15

ADDITIONAL COMMENTS

29°c

CLV-16722
PKG/50

Distribution: White - Original (with Data)
Yellow - BP
Pink - Lab
Blue - Consultant Field Staff

Analytical Technologies, Inc. Corporate Offices: 5550 Morehouse Drive San Diego, CA 92121 (619) 458-9141

ATI I.D.: 511267

December 01, 1995

ALISTO ENGINEERING
1575 TREAT BOULEVARD, SUITE 201
WALNUT CREEK, CA 94598

Project Name: BP SITE#11109/4280 FOOTHILL BLVD. OAKLAND, CA
Project # : G314386/10-005-03-001

Attention: PETE BEAVER

Analytical Technologies, Inc. has received the following sample(s):

Date Received	Quantity	Matrix
November 16, 1995	6	WATER

The sample(s) were analyzed with EPA methodology or equivalent methods as specified in the enclosed analytical schedule. The symbol for "less than" indicates a value below the reportable detection limit. If any flags appear next to the analytical data in this report, please see the attached list of flag definitions.

The results of these analyses and the quality control data are enclosed. Please note that the Sample Condition Upon Receipt Checklist is included at the end of this report.

GARY STEWART
VOLATILES SUPERVISOR

ALAN J. KLEINSCHMIDT
FOR LABORATORY MANAGER

RECEIVED
DEC 13 1995

SAMPLE CROSS REFERENCE

Client : ALISTO ENGINEERING
Project # : G314386/10-005-03-001
Project Name: BP SITE#11109/4280 FOOTHILL BLVD. OAKLAND, CA

Report Date: December 01, 1995
ATI I.D. : 511267

ATI #	Client Description	Matrix	Date Collected
1	STA#11109 INF 0830	WATER	14-NOV-95
2	STA#11109 INF 0835	WATER	14-NOV-95
3	STA#11109 A	WATER	14-NOV-95
4	STA#11109 EFF 0840	WATER	14-NOV-95
5	STA#11109 EFF 0845	WATER	14-NOV-95
6	STA#11109 Q-C-1	WATER	14-NOV-95

---TOTALS---

Matrix	# Samples
WATER	6

ATI STANDARD DISPOSAL PRACTICE

The sample(s) from this project will be disposed of in twenty-one (21) days from the date of this report. If an extended storage period is required, please contact our sample control department before the scheduled disposal date.

ANALYTICAL SCHEDULE

Client : ALISTO ENGINEERING
Project # : G314386/10-005-03-001
Project Name: BP SITE#11109/4280 FOOTHILL BLVD. OAKLAND, CA

ATI I.D.: 511267

Analysis	Technique/Description
EPA 624 (GC/MS FOR VOLATILE ORGANICS)	GC/MASS SPECTROMETER
MOD EPA 8015-CDOHS (FUEL HYDROCARBONS: C7-C24)	GC/FLAME IONIZATION DETECTOR
MOD EPA 8015-CDOHS (HYDROCARBONS C6-C12)	GC/PURGE & TRAP/FLAME ION. DETECTOR

GAS CHROMATOGRAPHY RESULTS

Test : MOD EPA 8015-CDOHS (FUEL HYDROCARBONS: C7-C24)
Client : ALISTO ENGINEERING ATI I.D. : 511267
Project # : G314386/10-005-03-001
Project Name: BP SITE#11109/4280 FOOTHILL BLVD. OAKLAND, CA

Sample #	Client ID	Matrix	Date Sampled	Date Extracted	Date Analyzed	Dil. Factor
2	STA#11109 INF 0835	WATER	14-NOV-95	27-NOV-95	28-NOV-95	1.00
5	STA#11109 EFF 0845	WATER	14-NOV-95	27-NOV-95	28-NOV-95	1.00

Parameter	Units	2 JK	5 JK
FUEL HYDROCARBONS	MG/L	4.0	<0.05
HYDROCARBON RANGE		C7-C15	-
HYDROCARBONS QUANTITATED USING		GASOLINE	-
SURROGATES			
BIS(2-ETHYLHEXYL)PHTHALATE	%	93	102

GAS CHROMATOGRAPHY - QUALITY CONTROL

REAGENT BLANK

Test : MOD EPA 8015-CDOHS (FUEL HYDROCARBONS)
Blank I.D. : 37454
Client : ALISTO ENGINEERING
Project # : G314386/10-005-03-001
Project Name: BP SITE#11109/4280 FOOTHILL BLVD. OAKLAND, CA

ATI I.D. : 511267
Date Extracted: 27-NOV-95
Date Analyzed : 27-NOV-95
Dil. Factor : 1.00

Parameters	Units	Results
FUEL HYDROCARBONS	MG/L	<0.05
HYDROCARBON RANGE		-
HYDROCARBONS QUANTITATED USING		-
SURROGATES		
BIS(2-ETHYLHEXYL) PHTHALATE	%	105

GAS CHROMATOGRAPHY - QUALITY CONTROL

MSMSD

Test : MOD EPA 8015-CDOHS (FUEL HYDROCARBONS)
MSMSD # : 80256
Client : ALISTO ENGINEERING

Project # : G314386/10-005-03-001
Project Name: BP SITE#11109/4280 FOOTHILL BLVD. OAKLAND, CA

ATI I.D. : 511267
Date Extracted: 27-NOV-95
Date Analyzed : 27-NOV-95
Sample Matrix : WATER
REF I.D. : REAGENT WATER

Parameters	Units	Sample Result	Conc Spike	Spiked Sample	% Rec	Dup Spike	Dup % Rec	RPD
FUEL HYDROCARBONS	MG/L	<0.05	1.0	1.0	100	1.0	100	0

% Recovery = (Spike Sample Result - Sample Result)*100/Spike Concentration
RPD (Relative % Difference) = (Spiked Sample Result - Duplicate Spike Result)*100/Average Result

GAS CHROMATOGRAPHY RESULTS

Test : MOD EPA 8015-CDOHS (HYDROCARBONS C6-C12)
Client : ALISTO ENGINEERING ATI I.D. : 511267
Project # : G314386/10-005-03-001
Project Name: BP SITE#11109/4280 FOOTHILL BLVD. OAKLAND, CA

Sample #	Client ID	Matrix	Date Sampled	Date Extracted	Date Analyzed	Dil. Factor
1	STA#11109 INF 0830	WATER	14-NOV-95	N/A	27-NOV-95	5.00
3	STA#11109 A	WATER	14-NOV-95	N/A	27-NOV-95	1.00
4	STA#11109 EFF 0840	WATER	14-NOV-95	N/A	27-NOV-95	1.00

Parameter	Units	1 DK	3 DK	4
FUEL HYDROCARBONS	UG/L	4300	<50	<50
HYDROCARBON RANGE		C6-C12	C6-C12	C6-C12
HYDROCARBONS QUANTITATED USING		GASOLINE	GASOLINE	GASOLINE
SURROGATES				
TRIFLUOROTOLUENE	%	152*H	92	88

GAS CHROMATOGRAPHY RESULTS

Test : MOD EPA 8015-CDOHS (HYDROCARBONS C6-C12)
Client : ALISTO ENGINEERING ATI I.D. : 511267
Project # : G314386/10-005-03-001
Project Name: BP SITE#11109/4280 FOOTHILL BLVD. OAKLAND, CA

Sample #	Client ID	Matrix	Date Sampled	Date Extracted	Date Analyzed	Dil. Factor
6	STA#11109 Q-C-1	WATER	14-NOV-95	N/A	28-NOV-95	1.00

Parameter	Units	6
FUEL HYDROCARBONS	UG/L	<50
HYDROCARBON RANGE		C6-C12
HYDROCARBONS QUANTITATED USING		GASOLINE
SURROGATES		
TRIFLUOROTOLUENE	%	96

GAS CHROMATOGRAPHY - QUALITY CONTROL

REAGENT BLANK

Test : MOD EPA 8015-CDOHS (FUEL HYDROCARBONS)
Blank I.D. : 37459
Client : ALISTO ENGINEERING
Project # : G314386/10-005-03-001
Project Name: BP SITE#11109/4280 FOOTHILL BLVD. OAKLAND, CA

ATI I.D. : 511267
Date Extracted: N/A
Date Analyzed : 27-NOV-95
Dil. Factor : 1.00

Parameters	Units	Results
FUEL HYDROCARBONS	UG/L	<50
HYDROCARBON RANGE		C6-C12
HYDROCARBONS QUANTITATED USING		GASOLINE
SURROGATES		
TRIFLUOROTOLUENE	%	95

GAS CHROMATOGRAPHY - QUALITY CONTROL

MSMSD

Test : MOD EPA 8015-CDOHS (FUEL HYDROCARBONS)
MSMSD # : 80262
Client : ALISTO ENGINEERING

Project # : G314386/10-005-03-001
Project Name: BP SITE#11109/4280 FOOTHILL BLVD. OAKLAND, CA

ATI I.D. : 511267
Date Extracted: N/A
Date Analyzed : 28-NOV-95
Sample Matrix : WATER
REF I.D. : 511266-04

Parameters	Units	Sample Result	Conc Spike	Spiked Sample	% Rec	Dup Spike	Dup % Rec	RPD
FUEL HYDROCARBONS	UG/L	<50	100	97	97	100	100	3

% Recovery = (Spike Sample Result - Sample Result)*100/Spike Concentration
RPD (Relative % Difference) = (Spiked Sample Result - Duplicate Spike Result)*100/Average Result

GAS CHROMATOGRAPHY - QUALITY CONTROL

BLANK SPIKE

Test : MOD EPA 8015-CDOHS (FUEL HYDROCARBONS)
Blank Spike #: 60227
Client : ALISTO ENGINEERING
Project # : G314386/10-005-03-001
Project Name : BP SITE#11109/4280 FOOTHILL BLVD. OAKLAND, CA

ATI I.D. : 511267
Date Extracted: N/A
Date Analyzed : 27-NOV-95
Sample Matrix : WATER

Parameters	Units	Blank Result	Spiked Sample	Spike Conc.	% Rec
FUEL HYDROCARBONS	UG/L	<50	98	100	98

% Recovery = (Spike Sample Result - Sample Result)*100/Spike Concentration
RPD (Relative % Difference) = (Spiked Sample - Blank Result)*100/Average Result

GAS CHROMATOGRAPHY/MASS SPECTROSCOPY RESULTS

Test : EPA 624 (GC/MS FOR VOLATILE ORGANICS)
Client : ALISTO ENGINEERING ATI I.D. : 511267
Project # : G314386/10-005-03-001
Project Name: BP SITE#11109/4280 FOOTHILL BLVD. OAKLAND, CA

Sample #	Client ID	Matrix	Date Sampled	Date Extracted	Date Analyzed	Dil. Factor
1	STA#11109 INF 0830	WATER	14-NOV-95	N/A	27-NOV-95	1.00
3	STA#11109 A	WATER	14-NOV-95	N/A	28-NOV-95	1.00
4	STA#11109 EFF 0840	WATER	14-NOV-95	N/A	27-NOV-95	1.00

Parameter	Units	1 JV	3 JK	4 JK
CHLOROMETHANE	UG/L	<10	<10	<10
VINYL CHLORIDE	UG/L	<5	<5	<5
BROMOMETHANE	UG/L	<10	<10	<10
CHLOROETHANE	UG/L	<5	<5	<5
ACETONE	UG/L	<10	<10	<10
1,1-DICHLOROETHENE	UG/L	<1	<1	<1
METHYLENE CHLORIDE	UG/L	<5	<5	<5
CARBON DISULFIDE	UG/L	<2	<2	<2
TRANS-1,2-DICHLOROETHENE	UG/L	<1	<1	<1
1,1-DICHLOROETHANE	UG/L	<1	<1	<1
CIS-1,2-DICHLOROETHENE	UG/L	<1	<1	<1
CHLOROFORM	UG/L	<1	<1	<1
2-BUTANONE (MEK)	UG/L	<10	<10	<10
1,1,1-TRICHLOROETHANE	UG/L	<1	<1	<1
CARBON TETRACHLORIDE	UG/L	<1	<1	<1
1,2-DICHLOROETHANE	UG/L	<1	<1	<1
BENZENE	UG/L	26	<1	<1
TRICHLOROETHENE	UG/L	<1	<1	<1
1,2-DICHLOROPROPANE	UG/L	<1	<1	<1
BROMODICHLOROMETHANE	UG/L	<1	<1	<1
4-METHYL-2-PENTANONE (MIBK)	UG/L	<10	<10	<10
CIS-1,3-DICHLOROPROPENE	UG/L	<1	<1	<1
TOLUENE	UG/L	8	<2	<2
TRANS-1,3-DICHLOROPROPENE	UG/L	<1	<1	<1
2-HEXANONE (MBK)	UG/L	<10	<10	<10
1,1,2-TRICHLOROETHANE	UG/L	<1	<1	<1
TETRACHLOROETHENE	UG/L	<1	<1	<1
DIBROMOCHLOROMETHANE	UG/L	<1	<1	<1
CHLOROBENZENE	UG/L	<1	<1	<1
ETHYLBENZENE	UG/L	<1	<1	<1
XYLENES (TOTAL)	UG/L	250	<1	<1
STYRENE	UG/L	<2	<2	<2
BROMOFORM	UG/L	<5	<5	<5
1,1,2,2-TETRACHLOROETHANE	UG/L	<1	<1	<1
DICHLORODIFLUOROMETHANE	UG/L	<10	<10	<10
TRICHLOROFLUOROMETHANE	UG/L	<5	<5	<5
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	UG/L	<5	<5	<5
1,2-DICHLOROBENZENE	UG/L	<5	<5	<5

GAS CHROMATOGRAPHY/MASS SPECTROSCOPY RESULTS

Test : EPA 624 (GC/MS FOR VOLATILE ORGANICS)
Client : ALISTO ENGINEERING ATI I.D. : 511267
Project # : G314386/10-005-03-001
Project Name: BP SITE#11109/4280 FOOTHILL BLVD. OAKLAND, CA

Sample #	Client ID	Matrix	Date Sampled	Date Extracted	Date Analyzed	Dil. Factor
1	STA#11109 INF 0830	WATER	14-NOV-95	N/A	27-NOV-95	1.00
3	STA#11109 A	WATER	14-NOV-95	N/A	28-NOV-95	1.00
4	STA#11109 EFF 0840	WATER	14-NOV-95	N/A	27-NOV-95	1.00

Parameter	Units	1	3	4
1,3-DICHLOROBENZENE	UG/L	<5	<5	<5
1,4-DICHLOROBENZENE	UG/L	<5	<5	<5
SURROGATES				
1,2-DICHLOROETHANE-D4	%	108	94	92
TOLUENE-D8	%	100	99	97
BFB	%	99	96	98

ADDITIONAL COMPOUNDS (SEMI-QUANTITATED)

Method : EPA 624 (GC/MS FOR VOLATILE ORGANICS) WATER
Client : ALISTO ENGINEERING ATI I.D.: 511267
Project # : G314386/10-005-03-001
Project Name: BP SITE#11109/4280 FOOTHILL BLVD. OAKLAND, CA

Sample	Parameters	Units	Results
1	CYCLIC HYDROCARBON	UG/L	90
	CYCLIC HYDROCARBON	UG/L	100
	TRIMETHYL BENZENE ISOMER	UG/L	100
	TRIMETHYL BENZENE ISOMER	UG/L	90
	ALIPHATIC HYDROCARBON C5	UG/L	50
3	NONE DETECTED	N/A	N/A
4	NONE DETECTED	N/A	N/A

GAS CHROMATOGRAPHY/MASS SPECTROSCOPY - QUALITY CONTROL

REAGENT BLANK

Test : EPA 8240 (GC/MS FOR VOLATILE ORGANICS)
Blank I.D. : 37464
Client : ALISTO ENGINEERING
Project # : G314386/10-005-03-001
Project Name: BP SITE#11109/4280 FOOTHILL BLVD. OAKLAND, CA

ATI I.D. : 511267
Date Extracted: N/A
Date Analyzed : 26-NOV-95
Dil. Factor : 1.00

Parameters	Units	Results
CHLOROMETHANE	UG/L	<10
VINYL CHLORIDE	UG/L	<5
BROMOMETHANE	UG/L	<10
CHLOROETHANE	UG/L	<5
ACETONE	UG/L	<10
1,1-DICHLOROETHENE	UG/L	<1
METHYLENE CHLORIDE	UG/L	<5
CARBON DISULFIDE	UG/L	<2
TRANS-1,2-DICHLOROETHENE	UG/L	<1
1,1-DICHLOROETHANE	UG/L	<1
CIS-1,2-DICHLOROETHENE	UG/L	<1
CHLOROFORM	UG/L	<1
2-BUTANONE (MEK)	UG/L	<10
1,1,1-TRICHLOROETHANE	UG/L	<1
CARBON TETRACHLORIDE	UG/L	<1
1,2-DICHLOROETHANE	UG/L	<1
BENZENE	UG/L	<1
TRICHLOROETHENE	UG/L	<1
1,2-DICHLOROPROPANE	UG/L	<1
BROMODICHLOROMETHANE	UG/L	<1
4-METHYL-2-PENTANONE (MIBK)	UG/L	<10
CIS-1,3-DICHLOROPROPENE	UG/L	<1
TOLUENE	UG/L	<2
TRANS-1,3-DICHLOROPROPENE	UG/L	<1
2-HEXANONE (MBK)	UG/L	<10
1,1,2-TRICHLOROETHANE	UG/L	<1
TETRACHLOROETHENE	UG/L	<1
DIBROMOCHLOROMETHANE	UG/L	<1
CHLOROBENZENE	UG/L	<1
ETHYLBENZENE	UG/L	<1
XYLENES (TOTAL)	UG/L	<1
STYRENE	UG/L	<2
BROMOFORM	UG/L	<5
1,1,2,2-TETRACHLOROETHANE	UG/L	<1
DICHLORODIFLUOROMETHANE	UG/L	<10
TRICHLOROFLUOROMETHANE	UG/L	<5
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	UG/L	<5
1,2-DICHLOROBENZENE	UG/L	<5
1,3-DICHLOROBENZENE	UG/L	<5
1,4-DICHLOROBENZENE	UG/L	<5
SURROGATES		
1,2-DICHLOROETHANE-D4	%	89
TOLUENE-D8	%	97
BFB	%	92

GAS CHROMATOGRAPHY/MASS SPECTROSCOPY - QUALITY CONTROL

REAGENT BLANK
ADDITIONAL COMPOUNDS (SEMI-QUANTITATED)

Test : EPA 8240 (GC/MS FOR VOLATILE ORGANICS)
Blank I.D. : 37464 ATI I.D. : 511267
Client : ALISTO ENGINEERING
Project # : G314386/10-005-03-001
Project Name: BP SITE#11109/4280 FOOTHILL BLVD. OAKLAND, CA

Parameters	Units	Results
NONE DETECTED	N/A	N/A

GAS CHROMATOGRAPHY/MASS SPECTROSCOPY - QUALITY CONTROL

REAGENT BLANK

Test : EPA 8240 (GC/MS FOR VOLATILE ORGANICS)
Blank I.D. : 37465
Client : ALISTO ENGINEERING
Project # : G314386/10-005-03-001
Project Name: BP SITE#11109/4280 FOOTHILL BLVD. OAKLAND, CA

ATI I.D. : 511267
Date Extracted: N/A
Date Analyzed : 27-NOV-95
Dil. Factor : 1.00

Parameters	Units	Results
CHLOROMETHANE	UG/L	<10
VINYL CHLORIDE	UG/L	<5
BROMOMETHANE	UG/L	<10
CHLOROETHANE	UG/L	<5
ACETONE	UG/L	<10
1,1-DICHLOROETHENE	UG/L	<1
METHYLENE CHLORIDE	UG/L	<5
CARBON DISULFIDE	UG/L	<2
TRANS-1,2-DICHLOROETHENE	UG/L	<1
1,1-DICHLOROETHANE	UG/L	<1
CIS-1,2-DICHLOROETHENE	UG/L	<1
CHLOROFORM	UG/L	<1
2-BUTANONE (MEK)	UG/L	<10
1,1,1-TRICHLOROETHANE	UG/L	<1
CARBON TETRACHLORIDE	UG/L	<1
1,2-DICHLOROETHANE	UG/L	<1
BENZENE	UG/L	<1
TRICHLOROETHENE	UG/L	<1
1,2-DICHLOROPROPANE	UG/L	<1
BROMODICHLOROMETHANE	UG/L	<1
4-METHYL-2-PENTANONE (MIBK)	UG/L	<10
CIS-1,3-DICHLOROPROPENE	UG/L	<1
TOLUENE	UG/L	<2
TRANS-1,3-DICHLOROPROPENE	UG/L	<1
2-HEXANONE (MBK)	UG/L	<10
1,1,2-TRICHLOROETHANE	UG/L	<1
TETRACHLOROETHENE	UG/L	<1
DIBROMOCHLOROMETHANE	UG/L	<1
CHLOROBENZENE	UG/L	<1
ETHYLBENZENE	UG/L	<1
XYLENES (TOTAL)	UG/L	<1
STYRENE	UG/L	<2
BROMOFORM	UG/L	<5
1,1,2,2-TETRACHLOROETHANE	UG/L	<1
DICHLORODIFLUOROMETHANE	UG/L	<10
TRICHLOROFLUOROMETHANE	UG/L	<5
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	UG/L	<5
1,2-DICHLOROBENZENE	UG/L	<5
1,3-DICHLOROBENZENE	UG/L	<5
1,4-DICHLOROBENZENE	UG/L	<5
SURROGATES		
1,2-DICHLOROETHANE-D4	%	93
TOLUENE-D8	%	97
BFB	%	98

GAS CHROMATOGRAPHY/MASS SPECTROSCOPY - QUALITY CONTROL

REAGENT BLANK
ADDITIONAL COMPOUNDS (SEMI-QUANTITATED)

Test : EPA 8240 (GC/MS FOR VOLATILE ORGANICS)
Blank I.D. : 37465 ATI I.D. : 511267
Client : ALISTO ENGINEERING
Project # : G314386/10-005-03-001
Project Name: BP SITE#11109/4280 FOOTHILL BLVD. OAKLAND, CA

Parameters	Units	Results
NONE DETECTED	N/A	N/A

GAS CHROMATOGRAPHY/MASS SPECTROSCOPY - QUALITY CONTROL

MSMSD

Test : EPA 8240 (GC/MS FOR VOLATILE ORGANICS)
MSMSD # : 80268
Client : ALISTO ENGINEERING

Project # : G314386/10-005-03-001
Project Name: BP SITE#11109/4280 FOOTHILL BLVD. OAKLAND, CA

ATI I.D. : 511267
Date Extracted: N/A
Date Analyzed : 28-NOV-95
Sample Matrix : WATER
REF I.D. : 511266-04

Parameters	Units	Sample Result	Conc Spike	Spiked Sample	% Rec	Dup Spike	Dup % Rec	RPD
1,1-DICHLOROETHENE	UG/L	<1	50	53	106	48	96	10
BENZENE	UG/L	<1	50	49	98	49	98	0
TRICHLOROETHENE	UG/L	<1	50	47	94	47	94	0
TOLUENE	UG/L	<2	50	51	102	49	98	4
CHLOROBENZENE	UG/L	<1	50	54	108	53	106	2

% Recovery = (Spike Sample Result - Sample Result)*100/Spike Concentration
RPD (Relative % Difference) = (Spiked Sample Result - Duplicate Spike Result)*100/Average Result

GAS CHROMATOGRAPHY/MASS SPECTROSCOPY - QUALITY CONTROL

BLANK SPIKE

Test : EPA 8240 (GC/MS FOR VOLATILE ORGANICS)
Blank Spike #: 60236
Client : ALISTO ENGINEERING
Project # : G314386/10-005-03-001
Project Name : BP SITE#11109/4280 FOOTHILL BLVD. OAKLAND, CA

ATI I.D. : 511267
Date Extracted: N/A
Date Analyzed : 26-NOV-95
Sample Matrix : WATER

Parameters	Units	Blank Result	Spiked Sample	Spike Conc.	% Rec
1,1-DICHLOROETHENE	UG/L	<1	53	50	106
BENZENE	UG/L	<1	49	50	98
TRICHLOROETHENE	UG/L	<1	49	50	98
TOLUENE	UG/L	<2	51	50	102
CHLOROBENZENE	UG/L	<1	55	50	110

% Recovery = (Spike Sample Result - Sample Result)*100/Spike Concentration
RPD (Relative % Difference) = (Spiked Sample - Blank Result)*100/Average Result

GAS CHROMATOGRAPHY/MASS SPECTROSCOPY - QUALITY CONTROL

BLANK SPIKE

Test : EPA 8240 (GC/MS FOR VOLATILE ORGANICS)
Blank Spike #: 60240
Client : ALISTO ENGINEERING
Project # : G314386/10-005-03-001
Project Name : BP SITE#11109/4280 FOOTHILL BLVD. OAKLAND, CA

ATI I.D. : 511267
Date Extracted: N/A
Date Analyzed : 28-NOV-95
Sample Matrix : WATER

Parameters	Units	Blank Result	Spiked Sample	Spike Conc.	% Rec
1,1-DICHLOROETHENE	UG/L	<1	53	50	106
BENZENE	UG/L	<1	50	50	100
TRICHLOROETHENE	UG/L	<1	48	50	96
TOLUENE	UG/L	<2	51	50	102
CHLOROBENZENE	UG/L	<1	54	50	108

% Recovery = (Spike Sample Result - Sample Result)*100/Spike Concentration
RPD (Relative % Difference) = (Spiked Sample - Blank Result)*100/Average Result

ACCESSION #: 511267 INITIALS: LT

ATI-SanDiego
SAMPLE CONDITION UPON RECEIPT CHECKLIST
(FOR RE-ACCESSIONS, COMPLETE #7 THRU #9)

1	Does this project require special handling according to NFESC Levels C, D, AFCEE or CLP protocols? If yes, complete a) and b) a) pH sample aliquoted: yes /no /na b) Either 1) Record Bottle Lot #'s: Or 2) Attach Sample Kit Request Form(s).	YES	(NO)
2	Number of Coolers Received If more than one cooler received attach Multiple Cooler Documentation Form (MCD) Indicate "see MCD" on Item 11 below	1	
3	Are custody seals required for this project ?	YES	(N/A)
	a) are Custody Seals present on Cooler(s) ?	YES	(NO)
	If yes, are seals intact ?	YES	NO
	b) are Custody Seals present on the sample ?	YES	(NO)
	If yes, are seals intact ?	YES	NO
4	Is there a Chain-Of-Custody (COC)* per cooler ? if not, if a problem is found indicate which samples/test were in the affected cooler on the MCD.	(YES)	NO
5	Is the COC* complete per cooler ? Relinquished: (yes)/no Requested analysis: (yes)/no	(YES)	NO
6	Is the COC* in agreement with the samples received? # Samples: (yes)/no Sample ID's: (yes)/no Date sampled: (yes)/no Matrix: (yes)/no # containers: (yes)/no	(YES)	NO
7	Are the samples preserved correctly?	(YES)	NO
8	Is there enough sample for all the requested analyses?	(YES)	NO
9	Are all samples within holding times for the requested analyses?	(YES)	NO
10	Record cooler temperature. Contact PM if temperature is not 4°C ± 2°C.	2.3°C	
	Is ice present in cooler?	(YES)	NO
11	Were all sample containers received intact (ie. not broken, leaking, etc.)?	(YES)	NO
12	Are samples requiring no headspace, headspace free? N/A	(YES)	NO
13	Are VOA 1st stickers required?	YES	(NO)
14	Are there special comments on the Chain of Custody which require client contact?	YES	(N/A)
15	If yes, was ATI Project Manager notified?	YES	NO

Describe "no" items: _____

Was client contacted? yes / no

If yes, Date: _____ Name of Person contacted:

Describe actions taken or client instructions: _____

*Or other representative documents, letters, and/or shipping memos

ATI # 511267

CHAIN OF CUSTODY

No. 071259

Page 1 of 1

CONSULTANT'S NAME	ADDRESS	CITY	STATE	ZIP CODE
Alisto Engineering Group	1575 TREAT Blvd. Ste 201	Walnut Creek	CA	94596

BP SITE NUMBER	BP CORNER ADDRESS/CITY	CONSULTANT PROJECT NUMBER
11109	4280 FOOTHILL Blvd. OAKLAND, CA	10-005-03-001

CONSULTANT PROJECT MANAGER	PHONE NUMBER	FAX NUMBER	CONSULTANT CONTRACT NUMBER
PETE BEAVER	510-295-1650	510 295-1823	G1314386

BP CONTACT	BP ADDRESS	PHONE NUMBER	FAX NO.
SCOTT HOOTON	Renton, WA		

LAB CONTACT	LABORATORY ADDRESS	PHONE NUMBER	FAX NO.
GARY STEWART	San Diego, CA		

SAMPLED BY (Please Print Name)	SAMPLED BY (Signature)	SHIPMENT DATE	SHIPMENT METHOD
JOHN BICKING	John R. Bicking	11-15-95	Fed Ex

TAT: ☐ 24 Hours ☐ 48 Hours ☐ 1 Week ☒ Standard 2 Weeks

ANALYSIS REQUIRED

AIRBILL NUMBER 6668 2-6592

SAMPLE DESCRIPTION	COLLECTION DATE / TIME	MATRIX SOIL/WATER	CONTAINERS NO.	CONTAINERS TYPE (VOL.)	PRESERVATIVE LAB SAMPLE #	HCL TPH-G	HCL 624	HCL TPH-D	COMMENTS
STA# 11109 INF	11/14/95 0830	GW	6	VOA	01	✓	✓	✓	
	0835		2	LI	02			✓	
STA# 11109 A	0835		6	VOA	03	✓	✓		
STA# 11109 EFF	0840		6	VOA	04	✓	✓		
	0845		2	LI	05			✓	
STA# 11109 Q-C 1	0846		3	VOA	06	✓			

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
John R. Bicking	11/14/95	1405	P. Yelton	11/15/95	1500
P. Yelton	11/14/95	1500	[signature] / ATI	11/16/95	0915

ADDITIONAL COMMENTS

Cooler # 1050 = 2.3°

CIV-16722
PKG/50

Distribution: White - Original (with Data)
Yellow - BP
Pink - Lab
Blue - Consultant Field Staff

Analytical Technologies, Inc. Corporate Offices: 5550 Morehouse Drive San Diego, CA 92121 (619) 458-9141

ATI I.D.: 512150

December 28, 1995

ALISTO ENGINEERING
1575 TREAT BOULEVARD, SUITE 201
WALNUT CREEK, CA 94598

Project Name: BP SITE#11109/4280 FOOTHILL BLVD. OAKLAND, CA
Project # : G314386/10-005-03-001

Attention: PETE BEAVER

Analytical Technologies, Inc. has received the following sample(s):

Date Received	Quantity	Matrix
December 13, 1995	3	WATER

The sample(s) were analyzed with EPA methodology or equivalent methods as specified in the enclosed analytical schedule. The symbol for "less than" indicates a value below the reportable detection limit. If any flags appear next to the analytical data in this report, please see the attached list of flag definitions.

The results of these analyses and the quality control data are enclosed. Please note that the Sample Condition Upon Receipt Checklist is included at the end of this report.

GARY STEWART
VOLATILES SUPERVISOR

For ALAN J. KLEINSCHMIDT
LABORATORY MANAGER

SAMPLE CROSS REFERENCE

Client : ALISTO ENGINEERING
Project # : G314386/10-005-03-001
Project Name: BP SITE#11109/4280 FOOTHILL BLVD. OAKLAND, CA

Report Date: December 28, 1995
ATI I.D. : 512150

ATI #	Client Description	Matrix	Date Collected
1	STA#11109 INF	WATER	12-DEC-95
2	STA#11109 A	WATER	12-DEC-95
3	STA#11109 EFF	WATER	12-DEC-95

---TOTALS---

Matrix	# Samples
WATER	3

ATI STANDARD DISPOSAL PRACTICE

The sample(s) from this project will be disposed of in twenty-one (21) days from the date of this report. If an extended storage period is required, please contact our sample control department before the scheduled disposal date.

ANALYTICAL SCHEDULE

Client : ALISTO ENGINEERING
Project # : G314386/10-005-03-001
Project Name: BP SITE#11109/4280 FOOTHILL BLVD. OAKLAND, CA

ATI I.D.: 512150

Analysis	Technique/Description
EPA 624 (GC/MS FOR VOLATILE ORGANICS)	GC/MASS SPECTROMETER
MOD EPA 8015-CDOHS (FUEL HYDROCARBONS: C7-C24)	GC/FLAME IONIZATION DETECTOR
MOD EPA 8015-CDOHS (HYDROCARBONS C6-C12)	GC/PURGE & TRAP/FLAME ION. DETECTOR

GAS CHROMATOGRAPHY RESULTS

Test : MOD EPA 8015-CDOHS (FUEL HYDROCARBONS: C7-C24)
Client : ALISTO ENGINEERING ATI I.D. : 512150
Project # : G314386/10-005-03-001
Project Name: BP SITE#11109/4280 FOOTHILL BLVD. OAKLAND, CA

Sample #	Client ID	Matrix	Date Sampled	Date Extracted	Date Analyzed	Dil. Factor
1	STA#11109 INF	WATER	12-DEC-95	18-DEC-95	22-DEC-95	1.00
3	STA#11109 EFF	WATER	12-DEC-95	18-DEC-95	22-DEC-95	1.00

Parameter	Units	1	3
FUEL HYDROCARBONS	MG/L	5.6	<0.05
HYDROCARBON RANGE		C7-C24+	-
HYDROCARBONS QUANTITATED USING		GASOLINE	-
SURROGATES			
BIS(2-ETHYLHEXYL)PHTHALATE	%	107	107

GAS CHROMATOGRAPHY - QUALITY CONTROL

REAGENT BLANK

Test : MOD EPA 8015-CDOHS (FUEL HYDROCARBONS)
Blank I.D. : 37692
Client : ALISTO ENGINEERING
Project # : G314386/10-005-03-001
Project Name: BP SITE#11109/4280 FOOTHILL BLVD. OAKLAND, CA

ATI I.D. : 512150
Date Extracted: 18-DEC-95
Date Analyzed : 20-DEC-95
Dil. Factor : 1.00

Parameters	Units	Results
FUEL HYDROCARBONS	MG/L	<0.50
HYDROCARBON RANGE		-
HYDROCARBONS QUANTITATED USING		-
SURROGATES		
BIS(2-ETHYLHEXYL)PHTHALATE	%	105

GAS CHROMATOGRAPHY - QUALITY CONTROL

MSMSD

Test : MOD EPA 8015-CDOHS (FUEL HYDROCARBONS)
MSMSD # : 80905
Client : ALISTO ENGINEERING

Project # : G314386/10-005-03-001
Project Name: BP SITE#11109/4280 FOOTHILL BLVD. OAKLAND, CA

ATI I.D. : 512150
Date Extracted: 18-DEC-95
Date Analyzed : 20-DEC-95
Sample Matrix : WATER
REF I.D. : REAGENT WATER

Parameters	Units	Sample Result	Conc Spike	Spiked Sample	% Rec	Dup Spike	Dup % Rec	RPD
FUEL HYDROCARBONS	MG/L	<0.05	1.0	1.0	100	1.1	110	10

% Recovery = (Spike Sample Result - Sample Result)*100/Spike Concentration
RPD (Relative % Difference) = (Spiked Sample Result - Duplicate Spike Result)*100/Average Result

GAS CHROMATOGRAPHY RESULTS

Test : MOD EPA 8015-CDOHS (HYDROCARBONS C6-C12)
Client : ALISTO ENGINEERING ATI I.D. : 512150
Project # : G314386/10-005-03-001
Project Name: BP SITE#11109/4280 FOOTHILL BLVD. OAKLAND, CA

Sample #	Client ID	Matrix	Date Sampled	Date Extracted	Date Analyzed	Dil. Factor
1	STA#11109 INF	WATER	12-DEC-95	N/A	19-DEC-95	10.00
2	STA#11109 A	WATER	12-DEC-95	N/A	19-DEC-95	1.00
3	STA#11109 EFF	WATER	12-DEC-95	N/A	19-DEC-95	1.00

Parameter	Units	1	2	3
FUEL HYDROCARBONS	UG/L	4500	<50	<50
HYDROCARBON RANGE		C6-C12	C6-C12	C6-C12
HYDROCARBONS QUANTITATED USING		GASOLINE	GASOLINE	GASOLINE
SURROGATES				
TRIFLUOROTOLUENE	%	132*H	98	94

GAS CHROMATOGRAPHY - QUALITY CONTROL

REAGENT BLANK

Test : MOD EPA 8015-CDOHS (FUEL HYDROCARBONS)
Blank I.D. : 37674
Client : ALISTO ENGINEERING
Project # : G314386/10-005-03-001
Project Name: BP SITE#11109/4280 FOOTHILL BLVD. OAKLAND, CA

ATI I.D. : 512150
Date Extracted: N/A
Date Analyzed : 19-DEC-95
Dil. Factor : 1.00

Parameters	Units	Results
FUEL HYDROCARBONS	UG/L	<50
HYDROCARBON RANGE		C6-C12
HYDROCARBONS QUANTITATED USING		GASOLINE
SURROGATES		
TRIFLUOROTOLUENE	%	99

GAS CHROMATOGRAPHY - QUALITY CONTROL

MSMSD

Test : MOD EPA 8015-CDOHS (FUEL HYDROCARBONS)
MSMSD # : 80788
Client : ALISTO ENGINEERING

Project # : G314386/10-005-03-001
Project Name: BP SITE#11109/4280 FOOTHILL BLVD. OAKLAND, CA

ATI I.D. : 512150
Date Extracted: N/A
Date Analyzed : 14-DEC-95
Sample Matrix : WATER
REF I.D. : 512135-01

Parameters	Units	Sample Result	Conc Spike	Spiked Sample	% Rec	Dup Spike	Dup % Rec	RPD
FUEL HYDROCARBONS	UG/L	<50	100	97	97	97	97	0

% Recovery = (Spike Sample Result - Sample Result)*100/Spike Concentration
RPD (Relative % Difference) = (Spiked Sample Result - Duplicate Spike Result)*100/Average Result

GAS CHROMATOGRAPHY - QUALITY CONTROL

BLANK SPIKE

Test : MOD EPA 8015-CDOHS (FUEL HYDROCARBONS)
Blank Spike #: 60655
Client : ALISTO ENGINEERING
Project # : G314386/10-005-03-001
Project Name : BP SITE#11109/4280 FOOTHILL BLVD. OAKLAND, CA

ATI I.D. : 512150
Date Extracted: N/A
Date Analyzed : 19-DEC-95
Sample Matrix : WATER

Parameters	Units	Blank Result	Spiked Sample	Spike Conc.	% Rec
FUEL HYDROCARBONS	UG/L	<50	96	100	96

% Recovery = (Spike Sample Result - Sample Result)*100/Spike Concentration
RPD (Relative % Difference) = (Spiked Sample - Blank Result)*100/Average Result

GAS CHROMATOGRAPHY/MASS SPECTROSCOPY RESULTS

Test : EPA 624 (GC/MS FOR VOLATILE ORGANICS)
Client : ALISTO ENGINEERING ATI I.D. : 512150
Project # : G314386/10-005-03-001
Project Name: BP SITE#11109/4280 FOOTHILL BLVD. OAKLAND, CA

Sample #	Client ID	Matrix	Date Sampled	Date Extracted	Date Analyzed	Dil. Factor
1	STA#11109 INF	WATER	12-DEC-95	N/A	19-DEC-95	1.00
2	STA#11109 A	WATER	12-DEC-95	N/A	19-DEC-95	1.00
3	STA#11109 EFF	WATER	12-DEC-95	N/A	19-DEC-95	1.00

Parameter	Units	1	2	3
CHLOROMETHANE	UG/L	<10	<10	<10
VINYL CHLORIDE	UG/L	<5	<5	<5
BROMOMETHANE	UG/L	<10	<10	<10
CHLOROETHANE	UG/L	<5	<5	<5
ACETONE	UG/L	<10	<10	<10
1,1-DICHLOROETHENE	UG/L	<1	<1	<1
METHYLENE CHLORIDE	UG/L	<5	<5	<5
CARBON DISULFIDE	UG/L	<2	<2	<2
TRANS-1,2-DICHLOROETHENE	UG/L	<1	<1	<1
1,1-DICHLOROETHANE	UG/L	<1	<1	<1
CIS-1,2-DICHLOROETHENE	UG/L	<1	<1	<1
CHLOROFORM	UG/L	<1	<1	<1
2-BUTANONE (MEK)	UG/L	<10	<10	<10
1,1,1-TRICHLOROETHANE	UG/L	<1	<1	<1
CARBON TETRACHLORIDE	UG/L	<1	<1	<1
1,2-DICHLOROETHANE	UG/L	<1	<1	<1
BENZENE	UG/L	47	<1	<1
TRICHLOROETHENE	UG/L	<1	<1	<1
1,2-DICHLOROPROPANE	UG/L	<1	<1	<1
BROMODICHLOROMETHANE	UG/L	<1	<1	<1
4-METHYL-2-PENTANONE (MIBK)	UG/L	<10	<10	<10
CIS-1,3-DICHLOROPROPENE	UG/L	<1	<1	<1
TOLUENE	UG/L	4	<2	<2
TRANS-1,3-DICHLOROPROPENE	UG/L	<1	<1	<1
2-HEXANONE (MBK)	UG/L	<10	<10	<10
1,1,2-TRICHLOROETHANE	UG/L	<1	<1	<1
TETRACHLOROETHENE	UG/L	<1	<1	<1
DIBROMOCHLOROMETHANE	UG/L	<1	<1	<1
CHLOROBENZENE	UG/L	<1	<1	<1
ETHYLBENZENE	UG/L	<1	<1	<1
XYLENES (TOTAL)	UG/L	260	<1	<1
STYRENE	UG/L	<2	<2	<2
BROMOFORM	UG/L	<5	<5	<5
1,1,2,2-TETRACHLOROETHANE	UG/L	<1	<1	<1
DICHLORODIFLUOROMETHANE	UG/L	<10	<10	<10
TRICHLOROFLUOROMETHANE	UG/L	<5	<5	<5
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	UG/L	<5	<5	<5
1,2-DICHLOROBENZENE	UG/L	<5	<5	<5

GAS CHROMATOGRAPHY/MASS SPECTROSCOPY RESULTS

Test : EPA 624 (GC/MS FOR VOLATILE ORGANICS)
Client : ALISTO ENGINEERING ATI I.D. : 512150
Project # : G314386/10-005-03-001
Project Name: BP SITE#11109/4280 FOOTHILL BLVD. OAKLAND, CA

Sample #	Client ID	Matrix	Date Sampled	Date Extracted	Date Analyzed	Dil. Factor
1	STA#11109 INF	WATER	12-DEC-95	N/A	19-DEC-95	1.00
2	STA#11109 A	WATER	12-DEC-95	N/A	19-DEC-95	1.00
3	STA#11109 EFF	WATER	12-DEC-95	N/A	19-DEC-95	1.00

Parameter	Units	1	2	3
1,3-DICHLOROBENZENE	UG/L	<5	<5	<5
1,4-DICHLOROBENZENE	UG/L	<5	<5	<5
SURROGATES				
1,2-DICHLOROETHANE-D4	%	90	101	98
TOLUENE-D8	%	97	94	94
BFB	%	97	96	93

ADDITIONAL COMPOUNDS (SEMI-QUANTITATED)

Method : EPA 624 (GC/MS FOR VOLATILE ORGANICS)
Client : ALISTO ENGINEERING
Project # : G314386/10-005-03-001
Project Name: BP SITE#11109/4280 FOOTHILL BLVD. OAKLAND, CA

WATER
ATI I.D.: 512150

Sample	Parameters	Units	Results
1	METHYL CYCLOPENTANE	UG/L	100
	METHYL CYCLOHEXANE	UG/L	200
	UNKNOWN HYDROCARBON	UG/L	100
	TRIMETHYL BENZENE ISOMER	UG/L	200
	ALIPHATIC HYDROCARBON C5	UG/L	70
2	NONE DETECTED	N/A	N/A
3	NONE DETECTED	N/A	N/A

GAS CHROMATOGRAPHY/MASS SPECTROSCOPY - QUALITY CONTROL

REAGENT BLANK

Test : EPA 8240 (GC/MS FOR VOLATILE ORGANICS)
Blank I.D. : 37655
Client : ALISTO ENGINEERING
Project # : G314386/10-005-03-001
Project Name: BP SITE#11109/4280 FOOTHILL BLVD. OAKLAND, CA

ATI I.D. : 512150
Date Extracted: N/A
Date Analyzed : 19-DEC-95
Dil. Factor : 1.00

Parameters	Units	Results
CHLOROMETHANE	UG/L	<10
VINYL CHLORIDE	UG/L	<5
BROMOMETHANE	UG/L	<10
CHLOROETHANE	UG/L	<5
ACETONE	UG/L	<10
1,1-DICHLOROETHENE	UG/L	<1
METHYLENE CHLORIDE	UG/L	<5
CARBON DISULFIDE	UG/L	<2
TRANS-1,2-DICHLOROETHENE	UG/L	<1
1,1-DICHLOROETHANE	UG/L	<1
CIS-1,2-DICHLOROETHENE	UG/L	<1
CHLOROFORM	UG/L	<1
2-BUTANONE (MEK)	UG/L	<10
1,1,1-TRICHLOROETHANE	UG/L	<1
CARBON TETRACHLORIDE	UG/L	<1
1,2-DICHLOROETHANE	UG/L	<1
BENZENE	UG/L	<1
TRICHLOROETHENE	UG/L	<1
1,2-DICHLOROPROPANE	UG/L	<1
BROMODICHLOROMETHANE	UG/L	<1
4-METHYL-2-PENTANONE (MIBK)	UG/L	<10
CIS-1,3-DICHLOROPROPENE	UG/L	<1
TOLUENE	UG/L	<2
TRANS-1,3-DICHLOROPROPENE	UG/L	<1
2-HEXANONE (MBK)	UG/L	<10
1,1,2-TRICHLOROETHANE	UG/L	<1
TETRACHLOROETHENE	UG/L	<1
DIBROMOCHLOROMETHANE	UG/L	<1
CHLOROBENZENE	UG/L	<1
ETHYLBENZENE	UG/L	<1
XYLENES (TOTAL)	UG/L	<1
STYRENE	UG/L	<2
BROMOFORM	UG/L	<5
1,1,2,2-TETRACHLOROETHANE	UG/L	<1
DICHLORODIFLUOROMETHANE	UG/L	<10
TRICHLOROFLUOROMETHANE	UG/L	<5
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	UG/L	<5
1,2-DICHLOROBENZENE	UG/L	<5
1,3-DICHLOROBENZENE	UG/L	<5
1,4-DICHLOROBENZENE	UG/L	<5
SURROGATES		
1,2-DICHLOROETHANE-D4	%	100
TOLUENE-D8	%	93
BFB	%	96

GAS CHROMATOGRAPHY/MASS SPECTROSCOPY - QUALITY CONTROL

REAGENT BLANK
ADDITIONAL COMPOUNDS (SEMI-QUANTITATED)

Test : EPA 8240 (GC/MS FOR VOLATILE ORGANICS)
Blank I.D. : 37655 ATI I.D. : 512150
Client : ALISTO ENGINEERING
Project # : G314386/10-005-03-001
Project Name: BP SITE#11109/4280 FOOTHILL BLVD. OAKLAND, CA

Parameters	Units	Results
NONE DETECTED	N/A	N/A

GAS CHROMATOGRAPHY/MASS SPECTROSCOPY - QUALITY CONTROL

REAGENT BLANK

Test : EPA 8240 (GC/MS FOR VOLATILE ORGANICS)
Blank I.D. : 37656
Client : ALISTO ENGINEERING
Project # : G314386/10-005-03-001
Project Name: BP SITE#11109/4280 FOOTHILL BLVD. OAKLAND, CA

ATI I.D. : 512150
Date Extracted: N/A
Date Analyzed : 19-DEC-95
Dil. Factor : 1.00

Parameters	Units	Results
CHLOROMETHANE	UG/L	<10
VINYL CHLORIDE	UG/L	<5
BROMOMETHANE	UG/L	<10
CHLOROETHANE	UG/L	<5
ACETONE	UG/L	<10
1,1-DICHLOROETHENE	UG/L	<1
METHYLENE CHLORIDE	UG/L	<5
CARBON DISULFIDE	UG/L	<2
TRANS-1,2-DICHLOROETHENE	UG/L	<1
1,1-DICHLOROETHANE	UG/L	<1
CIS-1,2-DICHLOROETHENE	UG/L	<1
CHLOROFORM	UG/L	<1
2-BUTANONE (MEK)	UG/L	<10
1,1,1-TRICHLOROETHANE	UG/L	<1
CARBON TETRACHLORIDE	UG/L	<1
1,2-DICHLOROETHANE	UG/L	<1
BENZENE	UG/L	<1
TRICHLOROETHENE	UG/L	<1
1,2-DICHLOROPROPANE	UG/L	<1
BROMODICHLOROMETHANE	UG/L	<1
4-METHYL-2-PENTANONE (MIBK)	UG/L	<10
CIS-1,3-DICHLOROPROPENE	UG/L	<1
TOLUENE	UG/L	<2
TRANS-1,3-DICHLOROPROPENE	UG/L	<1
2-HEXANONE (MBK)	UG/L	<10
1,1,2-TRICHLOROETHANE	UG/L	<1
TETRACHLOROETHENE	UG/L	<1
DIBROMOCHLOROMETHANE	UG/L	<1
CHLOROBENZENE	UG/L	<1
ETHYLBENZENE	UG/L	<1
XYLENES (TOTAL)	UG/L	<1
STYRENE	UG/L	<2
BROMOFORM	UG/L	<5
1,1,2,2-TETRACHLOROETHANE	UG/L	<1
DICHLORODIFLUOROMETHANE	UG/L	<10
TRICHLOROFLUOROMETHANE	UG/L	<5
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	UG/L	<5
1,2-DICHLOROBENZENE	UG/L	<5
1,3-DICHLOROBENZENE	UG/L	<5
1,4-DICHLOROBENZENE	UG/L	<5
SURROGATES		
1,2-DICHLOROETHANE-D4	%	96
TOLUENE-D8	%	94
BFB	%	95

GAS CHROMATOGRAPHY/MASS SPECTROSCOPY - QUALITY CONTROL

REAGENT BLANK
ADDITIONAL COMPOUNDS (SEMI-QUANTITATED)

Test : EPA 8240 (GC/MS FOR VOLATILE ORGANICS)
Blank I.D. : 37656 ATI I.D. : 512150
Client : ALISTO ENGINEERING
Project # : G314386/10-005-03-001
Project Name: BP SITE#11109/4280 FOOTHILL BLVD. OAKLAND, CA

Parameters	Units	Results
NONE DETECTED	N/A	N/A

GAS CHROMATOGRAPHY/MASS SPECTROSCOPY - QUALITY CONTROL

MSMSD

Test : EPA 8240 (GC/MS FOR VOLATILE ORGANICS)
MSMSD # : 80810
Client : ALISTO ENGINEERING

Project # : G314386/10-005-03-001
Project Name: BP SITE#11109/4280 FOOTHILL BLVD. OAKLAND, CA

ATI I.D. : 512150
Date Extracted: N/A
Date Analyzed : 20-DEC-95
Sample Matrix : WATER
REF I.D. : 512150-02

Parameters	Units	Sample Result	Conc Spike	Spiked Sample	% Rec	Dup Spike	Dup % Rec	RPD
1,1-DICHLOROETHENE	UG/L	<1	50	40	80	45	90	10
BENZENE	UG/L	<1	50	44	88	47	94	7
TRICHLOROETHENE	UG/L	<1	50	49	98	51	102	4
TOLUENE	UG/L	<2	50	47	94	50	100	6
CHLOROBENZENE	UG/L	<1	50	54	108	58	116	7

% Recovery = (Spike Sample Result - Sample Result)*100/Spike Concentration
RPD (Relative % Difference) = (Spiked Sample Result - Duplicate Spike Result)*100/Average Result

GAS CHROMATOGRAPHY/MASS SPECTROSCOPY - QUALITY CONTROL

BLANK SPIKE

Test : EPA 8240 (GC/MS FOR VOLATILE ORGANICS)
Blank Spike #: 60623
Client : ALISTO ENGINEERING
Project # : G314386/10-005-03-001
Project Name : BP SITE#11109/4280 FOOTHILL BLVD. OAKLAND, CA

ATI I.D. : 512150
Date Extracted: N/A
Date Analyzed : 19-DEC-95
Sample Matrix : WATER

Parameters	Units	Blank Result	Spiked Sample	Spike Conc.	% Rec
1,1-DICHLOROETHENE	UG/L	<1	47	50	94
BENZENE	UG/L	<1	47	50	94
TRICHLOROETHENE	UG/L	<1	54	50	108
TOLUENE	UG/L	<2	48	50	96
CHLOROBENZENE	UG/L	<1	55	50	110

% Recovery = (Spike Sample Result - Sample Result)*100/Spike Concentration
RPD (Relative % Difference) = (Spiked Sample - Blank Result)*100/Average Result

ANALYTICAL TECHNOLOGIES, INC.
SAN DIEGO
FLAGS

ORGANICS

FLAG	MESSAGE DESCRIPTION
A	A TIC IS A SUSPECTED ALDOL-CONDENSATION PRODUCT
B	ANALYTE FOUND IN THE ASSOCIATED REAGENT BLANK
C	PESTICIDE, WHERE THE IDENTIFICATION WAS CONFIRMED BY GC/MS
CO	THESE COMPOUNDS CO-ELUTE AND ARE QUANTITATED AS ONE PEAK
D	COMPOUND IDENTIFIED IN AN ANALYSIS AT SECONDARY DILUTION
E	ANALYTE AMOUNT EXCEEDS THE CALIBRATION RANGE
J	ESTIMATED VALUE
H	QUANTIFIED AS DIESEL BUT CHROMATOGRAPHIC PATTERN DOES NOT MATCH THAT OF DIESEL
K	QUANTIFIED AS KEROSENE BUT CHROMATOGRAPHIC PATTERN DOES NOT MATCH THAT OF KEROSENE
L	QUANTIFIED AS GASOLINE BUT CHROMATOGRAPHIC PATTERN DOES NOT MATCH THAT OF GASOLINE
N	PRESUMPTIVE EVIDENCE OF A COMPOUND
P	PESTICIDE/AROCLOR TARGET ANALYTE, WHERE THERE IS GREATER THAN 25% DIFFERENCE FOR DETECTED CONCENTRATION BETWEEN 2 GC COLUMNS
TR	COMPOUND DETECTED AT AN UNQUANTIFIABLE TRACE LEVEL
U	COMPOUND WAS ANALYZED FOR BUT NOT DETECTED
X	SEE CASE NARRATIVE
Y	SEE CASE NARRATIVE
Z	SEE CASE NARRATIVE
*	OUTSIDE OF QUALITY CONTROL LIMITS
*D	COMPOUND ANALYZED FROM A SECONDARY ANALYSIS
*F	RESULT OUTSIDE OF ATI'S QUALITY CONTROL LIMITS
*G	RESULT OUTSIDE QUALITY CONTROL LIMITS. INSUFFICIENT SAMPLE FOR RE-EXTRACTION/ANALYSIS
*H	RESULT OUTSIDE OF LIMITS DUE TO SAMPLE MATRIX INTERFERENCE
*I	BECAUSE OF NECESSARY SAMPLE DILUTION, VALUE WAS OUTSIDE QC LIMITS
*K	DUE TO THE NECESSARY DILUTION OF THE SAMPLE, RESULT WAS NOT ATTAINABLE
*L	ANALYTE IS A SUSPECTED LAB CONTAMINANT
*P	A STANDARD WAS USED TO QUANTITATE THIS VALUE
*R	DATA IS NOT USABLE
*T	SURROGATE RECOVERY IS OUTSIDE QC CONTROL LIMITS. NO CORRECTIVE ACTION INDICATED BY METHOD
*V	SAMPLE RESULT IS >4X SPIKED CONCENTRATION, THEREFORE SPIKE IS NOT DETECTABLE
*Y	RESULT NOT ATTAINABLE DUE TO SAMPLE MATRIX INTERFERENCE
@A	RESULTS OUT OF LIMITS DUE TO SAMPLE NON-HOMOGENEITY
@C	*VARIABLE MESSAGE*
@D	RESULT COULD NOT BE CONFIRMED DUE TO MATRIX INTERFERENCE ON THE CONFIRMATION COLUMN
@E	RESULT MAY BE FALSELY ELEVATED DUE TO SAMPLE MATRIX INTERFERENCE
@F	RESULT OUTSIDE OF CONTRACT SPECIFIED QUALITY CONTROL LIMITS
@G	RESULT OUTSIDE OF CONTRACT SPECIFIED ADVISORY LIMITS
@H	DETECTION LIMIT ELEVATED DUE TO MATRIX INTERFERENCE
@M	RESULT NOT CONFIRMED BY U.V. DUE TO SAMPLE MATRIX INTERFERENCE
@N	RESULT NOT CONFIRMED BY FLUORESCENCE DUE TO SAMPLE MATRIX INTERFERENCE
@P	RESULT QUANTITATED USING FLUORESCENCE ONLY DUE TO THE LOW CONCENTRATION
@Q	DETECTION LIMIT ELEVATED DUE TO LIMITED SAMPLE FOR ANALYSIS
@T	RESULT DUE TO TCLP EXTRACTION MATRIX INTERFERENCE. NO QC LIMITS HAVE BEEN ESTABLISHED
@U	SAMPLE CHROMATOGRAM DOES NOT RESEMBLE COMMON FUEL HYDROCARBON FINGERPRINTS
@Z	SAMPLE CHROMATOGRAM DOES NOT RESEMBLE A FUEL HYDROCARBON

ACCESSION #: 512150 INITIALS: LQ

ATI-SanDiego
SAMPLE CONDITION UPON RECEIPT CHECKLIST
(FOR RE-ACCESSIONS, COMPLETE #7 THRU #9)

1	Does this project require special handling according to NFESC Levels C, D, AFCEE or CLP protocols? If yes, complete a) and b) a) pH sample aliquoted: yes /no /na b) Either 1) Record Bottle Lot #'s: Or 2) Attach Sample Kit Request Form(s)	YES	(NO)
2	Number of Coolers Received If more than one cooler received attach Multiple Cooler Documentation Form (MCD) Indicate "see MCD" on Item 11 below		1
3	Are custody seals required for this project ?	YES	(N/A)
	a) are Custody Seals present on Cooler(s) ?	YES	(NO)
	If yes, are seals intact ?	YES	NO (NA)
	b) are Custody Seals present on the sample ?	YES	(NO)
	If yes, are seals intact ?	YES	NO (NA)
4	Is there a Chain-Of-Custody (COC)* per cooler ? if not, if a problem is found indicate which samples/test were in the affected cooler on the MCD.	(YES)	NO
5	Is the COC* complete per cooler ? Relinquished: (yes)/no Requested analysis: (yes)/no	(YES)	NO
6	Is the COC* in agreement with the samples received? # Samples: (yes)/no Sample ID's: (yes)/no Date sampled: (yes)/no Matrix: (yes)/no # containers: (yes)/no	(YES)	NO
7	Are the samples preserved correctly?	(YES)	NO
8	Is there enough sample for all the requested analyses?	(YES)	NO
9	Are all samples within holding times for the requested analyses?	(YES)	NO
10	Record cooler temperature. Contact PM if temperature is not 4°C ± 2°C.	2.0 °C	
	Is ice present in cooler?	(YES)	NO
11	Were all sample containers received intact (ie. not broken, leaking, etc.)?	(YES)	NO
12	Are samples requiring no headspace, headspace free? N/A	(YES)	NO
13	Are VOA 1st stickers required?	YES	(NO)
14	Are there special comments on the Chain of Custody which require client contact?	YES	(N/A)
15	If yes, was ATI Project Manager notified?	YES	(NO)

Describe "no" items: _____

Was client contacted? yes / no

If yes, Date: _____ Name of Person contacted:

Describe actions taken or client instructions: _____

*Or other representative documents, letters, and/or shipping memos

ATI - LAB I.D
512150

CHAIN OF CUSTODY

No. 066947 Page 1 of 1

CONSULTANT'S NAME	ADDRESS	CITY	STATE	ZIP CODE
Alisto Engineering Group	1575 Treat Blvd. Ste 201	Walnut Creek	CA	94596

BP SITE NUMBER	BP CORNER ADDRESS/CITY	CONSULTANT PROJECT NUMBER
11109	4280 Foothill Blvd. Oakland CA	10-005-03-001

CONSULTANT PROJECT MANAGER	PHONE NUMBER	FAX NUMBER	CONSULTANT CONTRACT NUMBER
Pete Bennett	510 295-1650	510 295-1823	631435.10

BP CONTACT	BP ADDRESS	PHONE NUMBER	FAX NO.
Scott Hooton	Renton, WA		

LAB CONTACT	LABORATORY ADDRESS	PHONE NUMBER	FAX NO.
Cathy Stewart	San Diego CA		

SAMPLED BY (Please Print Name)	SAMPLED BY (Signature)	SHIPMENT DATE	SHIPMENT METHOD
John Bicking	John K. Bicking		

TAT: ☐ 24 Hours ☐ 48 Hours ☐ 1 Week ☒ Standard 2 Weeks

ANALYSIS REQUIRED

AIRBILL NUMBER

SAMPLE DESCRIPTION	COLLECTION DATE	COLLECTION TIME	MATRIX SOIL/WATER	CONTAINERS NO.	CONTAINERS TYPE (VOL.)	PRESERVATIVE LAB SAMPLE #	HCL TPH-G	HCL 624	HCL TPH-D	COMMENTS
Stat# 11109 INF	12/12/95	0900	GW	8		01	✓	✓	✓	
Stat# 11109 A		0910		6		02	✓	✓		
Stat# 11109 EFF		0920		8		03	✓	✓	✓	

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
John K. Bicking	12/12/95	1000	Tracy Quinn	12/13/95	9:30AM

ADDITIONAL COMMENTS

Temp. 2.0°C

CLV-16722
PKG/50

Distribution: White - Original (with Data)
Yellow - BP
Pink - Lab
Blue - Consultant Field Staff