ALISTO ENGINEERING GROUP

LOP 2878.

July 14, 1995

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

10-024-04-002

Subject: Sewer Discharge Permit - Semi-Annual Report
BP Oil Company Service Station No. 11132
3201 35th Street
Oakland, California
Wastewater Discharge Permit No. 502-62901

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. 11132, 3201 35th Street, Oakland, California. The previous report covered the period from January 1 to March 31, 1995, therefore, this report covers the period from April 1 to June 30, 1995. The next report will cover the period from July 1 to December 31, 1995.

The total 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 in 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."

JUL 19 PM 2:16

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: Florencio Gonzalez, East Bay Municipal Utility District
Scott Hooton, BP Oil Company

ALISTO ENGINEERING GROUP

July 14, 1995

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

10-024-04-002

Subject: Sewer Discharge Permit - Semi-Annual Report
BP Oil Company Service Station No. 11132
3201 35th Street
Oakland, California
Wastewater Discharge Permit No. 502-62901

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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. 11132
3201 35TH STREET, OAKLAND, CALIFORNIA

ALISTO PROJECT NO. 10-024

DATE	FLOW METER READING (Gallons)		EFFLUENT DISCHARGED (Gallons)	AVERAGE FLOW RATE (GPD)	AVERAGE FLOW RATE (GPM)
01/22/93	48860		48860	---	0.00
02/23/93	48860	(a)	0	---	0.00
07/14/93	50770		1910	---	0.00
07/19/93	0	(b)	---	---	0.00
07/26/93	13700		13700	1957	1.36
08/17/93	37367		23667	1076	0.75
09/28/93	64180		26813	638	0.44
10/25/93	86610		22430	831	0.58
11/26/93	95550		8940	279	0.19
12/28/93	116960		21410	669	0.46
01/28/94	117200		240	8	0.01
02/28/94	164070		46870	1512	1.05
03/29/94	208760		44690	1541	1.07
04/29/94	243380		34620	1117	0.78
05/31/94	292140		48760	1524	1.06
09/03/94	410710		118570	1248	0.87
10/05/94	454250		43540	1361	0.94
10/31/94	464410		10160	391	0.27
11/29/94	482970		18560	640	0.44
12/07/94	508770		25800	3225	2.24
01/04/95	508770		0	0	0.00
01/30/95	547720		38950	1498	1.04
02/21/95	570040		22320	1015	0.70
03/30/95	623360		53320	1441	1.00
05/02/95	670240		46880	1421	0.99
05/31/95	705540		35300	1217	0.85
06/28/95	755067		49527	1769	1.23
TOTAL FOR QUARTER			131707	2311	1.60

ABBREVIATIONS:

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

NOTE:

(a)	Flow meter not operating. System shut down.
(b)	Flow meter replaced.

TABLE 2 - SUMMARY OF RESULTS OF GROUNDWATER TREATMENT SYSTEM OPERATION
BP OIL COMPANY SERVICE STATION NO. 11132
3201 35TH STREET, OAKLAND, CALIFORNIA

ALISTO PROJECT NO. 10-024

Sample ID		Date	TPH-G (ug/l)	TPH-D (ug/l)	B (ug/l)		T (ug/l)	E (ug/l)	X (ug/l)	Acetone (ug/l)	MEK (ug/l)	LAB
I-1		11/06/92	22000	---	4500		1600	760	3900	---	---	PACE
I-1		01/22/93	---	120	ND<0.5		250	84	590	54	---	PACE
I-1		07/26/93	---	620	2600		210	120	960	78	96	PACE
I-1		08/17/93	---	520	1200		58	35	300	ND<5.0	ND<5.0	PACE
I-1		09/22/93	4200	370	1000		110	38	520	---	---	PACE
I-1		10/20/93	---	140	930		32	8	190	---	---	PACE
I-1	(a)	11/18/93	---	470	970		72	19	410	ND<50	ND<50	PACE
I-1		12/07/93	---	2100	780	(b)	ND<5	ND<5	97	ND<50	ND<50	PACE
I-1		02/08/94	---	410000	3400		1400	610	7300	ND<2500	ND<2500	PACE
I-1		02/15/94	42000	6400	4400		2500	820	9400	ND<1200	ND<1200	PACE
I-1		03/15/94	---	1500	1200		200	38	780	ND<50	ND<50	PACE
I-1		04/15/94	---	2500	580		27	38	700	ND<50	ND<50	PACE
I-1		05/12/94	---	430	ND<5		ND<5	ND<5	ND<5	ND<50	ND<50	PACE
I-1		06/16/94	---	ND<50	150		11	ND<5	ND<5	---	---	PACE
I-1		07/14/94	---	ND<50	ND<5		ND<5	ND<5	ND<5	---	---	PACE
I-1		08/23/94	---	1100	330		7	200	---	---	---	PACE
I-1		09/19/94	---	580	280		62	ND<5	---	---	---	PACE
I-1		10/17/94	---	ND<50	ND<25		ND<25	ND<25	61	---	---	GTEL
I-1		11/18/94	---	4600	2200		880	140	2300	---	---	GTEL
I-1		01/17/95	---	960	960		83	6	300	---	---	ATI
I-1		02/21/95	---	4400	980		130	10	450	ND<50	ND<50	ATI
I-1		03/14/95	---	3000	740		ND<10	10	300	390 (c)	ND<50	ATI
I-1		04/18/95	---	---	890		80	2	270	82	ND<50	ATI
I-1		04/19/95	---	1800	---		---	---	---	---	---	ATI
QC-1		04/19/95	---	1500	---		---	---	---	---	---	ATI
I-1		05/16/95	---	1700	910		84	26	250	ND<50	ND<50	ATI
QC-1		05/16/95	---	1700	780		52	20	170	ND<50	ND<50	ATI
I-1		06/19/95	---	370	6		ND<2	ND<1	ND<1	15	ND<10	ATI
A-1		11/06/92	---	---	---		---	---	---	---	---	PACE
A-1		01/22/93	---	ND<50	ND<0.5		ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	PACE
A-1		07/26/93	---	ND<50	ND<0.5		ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	PACE
A-1		08/17/93	---	ND<50	ND<0.5		ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	PACE
A-1		09/22/93	ND<50	---	ND<0.5		ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	PACE
A-1		10/20/93	---	---	ND<5		ND<5	ND<5	ND<5	ND<50	ND<50	PACE
A-1	(a)	11/18/93	---	---	ND<5		ND<5	ND<5	ND<5	ND<50	ND<50	PACE
A-1		12/07/93	---	---	ND<5		ND<5	ND<5	ND<5	ND<50	ND<50	PACE
A-1		02/08/94	---	---	ND<5		ND<5	ND<5	ND<5	ND<50	ND<50	PACE
A-1		02/15/94	---	---	ND<5		ND<5	ND<5	ND<5	ND<50	ND<50	PACE
A-1		03/15/94	---	---	ND<5		ND<5	ND<5	ND<5	ND<50	ND<50	PACE
A-1		04/15/94	---	---	ND<5		ND<5	ND<5	ND<5	ND<50	ND<50	PACE
A-1		05/12/94	---	---	ND<5		ND<5	ND<5	ND<5	ND<50	ND<50	PACE
A-1		06/16/94	---	---	ND<5		ND<5	ND<5	ND<5	---	---	PACE
A-1		07/14/94	---	---	ND<5		ND<5	ND<5	ND<5	---	---	PACE
A-1		08/23/94	---	---	ND<5		ND<5	ND<5	---	---	---	PACE
A-1		09/19/94	---	---	ND<5		ND<5	ND<5	---	---	---	PACE
A-1		10/17/94	---	---	ND<5		ND<5	ND<5	ND<5	---	---	GTEL
A-1		11/18/94	---	---	ND<5		ND<5	ND<5	ND<5	---	---	GTEL
A-1		01/17/95	---	---	ND<1		ND<5	ND<1	ND<2	---	---	ATI
A-1		02/21/95	---	---	ND<1		ND<2	ND<1	ND<1	ND<10	ND<10	ATI
A-1		03/14/95	---	---	ND<1		ND<2	ND<1	ND<1	ND<10	ND<10	ATI
A-1		04/18/95	---	---	ND<1		ND<2	ND<1	ND<1	ND<10	ND<10	ATI
A-1		05/16/95	---	---	ND<1		ND<2	ND<1	ND<1	ND<10	ND<10	ATI
A-1		06/19/95	---	---	ND<1		ND<2	ND<1	ND<1	ND<10	ND<10	ATI

TABLE 2 - SUMMARY OF RESULTS OF GROUNDWATER TREATMENT SYSTEM OPERATION
BP OIL COMPANY SERVICE STATION NO. 11132
3201 35TH STREET, OAKLAND, CALIFORNIA

ALISTO PROJECT NO. 10-024

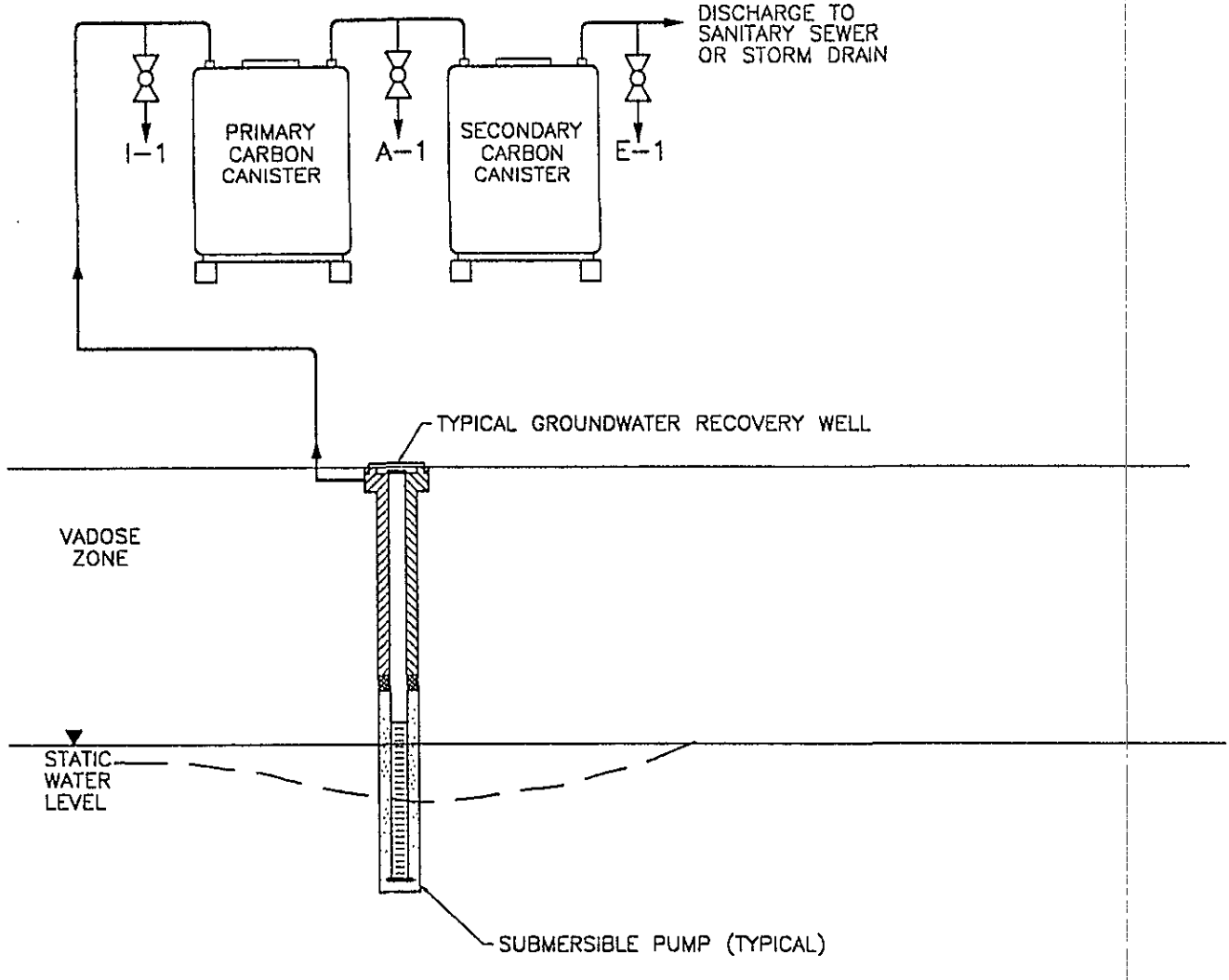
Sample ID		Date	TPH-G (ug/l)	TPH-D (ug/l)	B (ug/l)	T (ug/l)	E (ug/l)	X (ug/l)	Acetone (ug/l)	MEK (ug/l)	LAB
E-1		11/06/92	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<.5	---	---	PACE
E-1		01/22/93	---	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	PACE
E-1		07/26/93	---	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	PACE
E-1		08/17/93	---	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	PACE
E-1		09/22/93	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	PACE
E-1		10/20/93	---	---	ND<0.5	ND<5	ND<5	ND<5	ND<5	ND<5	PACE
E-1	(a)	11/18/93	---	---	400	22	5	120	ND<50	ND<5	PACE
E-1		12/07/93	---	---	ND<5	ND<5	ND<5	ND<5	ND<50	140	PACE
E-1		02/08/94	---	---	ND<5	ND<5	ND<5	ND<5	ND<50	ND<50	PACE
E-1		02/15/94	---	---	ND<5	ND<5	ND<5	ND<5	ND<50	ND<50	PACE
E-1		03/15/94	---	---	ND<5	ND<5	ND<5	ND<5	ND<50	ND<50	PACE
E-1		04/15/94	---	---	ND<5	ND<5	ND<5	ND<5	ND<50	ND<50	PACE
E-1		05/12/94	---	---	ND<5	ND<5	ND<5	ND<5	ND<50	ND<50	PACE
E-1		06/16/94	---	---	ND<5	ND<5	ND<5	ND<5	---	---	PACE
E-1		07/14/94	---	---	ND<5	ND<5	ND<5	ND<5	---	---	PACE
E-1		08/23/94	---	---	ND<5	ND<5	ND<5	---	---	---	PACE
E-1		09/19/94	---	---	ND<5	ND<5	ND<5	---	---	---	PACE
E-1		10/17/94	---	---	ND<5	ND<5	ND<5	ND<5	---	---	GTEL
E-1		11/18/94	---	---	ND<5	ND<5	ND<5	ND<5	---	---	GTEL
E-1		01/17/95	---	---	ND<1	ND<5	ND<1	ND<2	---	---	ATI
E-1		02/21/95	---	---	ND<1	ND<2	ND<1	ND<1	ND<10	ND<10	ATI
E-1		03/14/95	---	---	ND<1	ND<2	ND<1	ND<1	ND<10	ND<10	ATI
QC-1		03/14/95	---	---	ND<1	ND<2	ND<1	ND<1	ND<10	ND<10	ATI
E-1		04/18/95	---	---	ND<1	ND<2	ND<1	ND<1	ND<10	ND<10	ATI
QC-1		04/18/95	---	---	ND<1	ND<2	ND<1	ND<1	ND<10	ND<10	ATI
E-1		05/16/95	---	---	ND<1	ND<2	ND<1	ND<1	ND<10	ND<10	ATI
E-1		06/19/95	---	---	ND<1	ND<2	ND<1	ND<1	11	ND<10	ATI
QC-1		06/19/95	---	---	ND<1	ND<2	ND<1	ND<1	13	ND<10	ATI

ABBREVIATIONS:

TPH-G	Total petroleum hydrocarbons as gasoline
TPH-D	Total petroleum hydrocarbons as diesel
B	Benzene
T	Toluene
E	Ethylbenzene
X	Total xylenes
MEK	2-Butanone
ug/l	Micrograms per liter
ND	Not detected above reported detection limit
---	Not analyzed/available
QC-1	Field blank
PACE	Pace, Inc.
GTEL	GTEL Environmental Laboratories, Inc.
ATI	Analytical Technologies, Inc.

NOTES:

(a)	Suspected sample identification error.
(b)	Sample dilution required to bring compound within linear calibration range.
(c)	Analyte detected in the associated reagent blank.



LEGEND

I = INFLUENT
A = INTERMEDIATE
E = EFFLUENT

SAMPLE PORT

FIGURE 1

ACTIVATED CARBON TREATMENT SYSTEM SAMPLING LOCATIONS

BP OIL SERVICE STATION NO. 11132
3201 35TH AVENUE
OAKLAND, CALIFORNIA

PROJECT NO. 10–024

ALISTO ENGINEERING GROUP
WALNUT CREEK, CALIFORNIA

10027U--.DWG 10-26-93 RKW 1-1

ATTACHMENT A

LABORATORY REPORTS AND CHAIN OF CUSTODY RECORDS

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

ATI I.D.: 504212

May 01, 1995

ALISTO ENGINEERING
1777 OAKLAND BOULEVARD, SUITE 200
WALNUT CREEK, CA 94596

Project Name: BP SITE#11132/3201 35TH AVENUE,OAKLAND CA
Project # : G247985/10-024-04-001

Attention: PETE BEAVER

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

Date Received	Quantity	Matrix
April 20, 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
LABORATORY MANAGER

Analytical Technologies, Inc.

SAMPLE CROSS REFERENCE

Client : ALISTO ENGINEERING
Project # : G247985/10-024-04-001
Project Name: BP SITE#11132/3201 35TH AVENUE,OAKLAND CA

Report Date: May 01, 1995
ATI I.D. : 504212

ATI #	Client Description	Matrix	Date Collected
1	STA #11132 INF	WATER	18-APR-95
2	STA #11132 A	WATER	18-APR-95
3	STA #11132 EFF	WATER	18-APR-95
4	STA #11132 FIELD BLANK	WATER	18-APR-95
5	STA #11132 INF	WATER	19-APR-95
6	STA #11132 FIELD BLANK	WATER	19-APR-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 Technologies, Inc.

ANALYTICAL SCHEDULE

Client : ALISTO ENGINEERING
Project # : G247985/10-024-04-001
Project Name: BP SITE#11132/3201 35TH AVENUE,OAKLAND CA

ATI I.D.: 504212

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

Analytical Technologies, Inc.

GAS CHROMATOGRAPHY RESULTS

Test : MOD EPA 8015-CDOHS (FUEL HYDROCARBONS: C7-C24)
Client : ALISTO ENGINEERING
ATI I.D. : 504212
Project # : G247985/10-024-04-001
Project Name: BP SITE#11132/3201 35TH AVENUE,OAKLAND CA

Sample #	Client ID	Matrix	Date Sampled	Date Extracted	Date Analyzed	Dil. Factor
5	STA #11132 INF	WATER	19-APR-95	24-APR-95	25-APR-95	1.00
6	STA #11132 FIELD BLANK	WATER	19-APR-95	24-APR-95	25-APR-95	1.00

Parameter	Units	5	6
FUEL HYDROCARBONS	MG/L	1.8	1.5
HYDROCARBON RANGE		C7-C14	C7-C14
HYDROCARBONS QUANTITATED USING		GASOLINE	GASOLINE
SURROGATES			
BIS(2-ETHYLHEXYL) PHTHALATE	%	99	94

Analytical Technologies, Inc.

GAS CHROMATOGRAPHY - QUALITY CONTROL

REAGENT BLANK

Test : MOD EPA 8015-CDOHS (FUEL HYDROCARBONS)
Blank I.D. : 35145
Client : ALISTO ENGINEERING
Project # : G247985/10-024-04-001
Project Name: BP SITE#11132/3201 35TH AVENUE,OAKLAND CA

ATI I.D. : 504212
Date Extracted: 24-APR-95
Date Analyzed : 25-APR-95
Dil. Factor : 1.00

Parameters	Units	Results
FUEL HYDROCARBONS	MG/L	<0.05
HYDROCARBON RANGE		-
HYDROCARBONS QUANTITATED USING		-
SURROGATES		
BIS(2-ETHYLHEXYL)PHTHALATE	%	51

Analytical Technologies, Inc.

GAS CHROMATOGRAPHY - QUALITY CONTROL

MSMSD

Test : MOD EPA 8015-CDOHS (FUEL HYDROCARBONS)
MSMSD # : 75108
Client : ALISTO ENGINEERING

Project # : G247985/10-024-04-001
Project Name: BP SITE#11132/3201 35TH AVENUE,OAKLAND CA

ATI I.D. : 504212
Date Extracted: 24-APR-95
Date Analyzed : 25-APR-95
Sample Matrix : WATER
REF I.D. : 504211-01

Parameters	Units	Sample Result	Conc Spike	Spiked Sample	% Rec	Dup Spike	Dup % Rec	RPD
FUEL HYDROCARBONS	MG/L	46	1.0	51	N/A*V	49	N/A*V	4

% 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 #: 56051
Client : ALISTO ENGINEERING
Project # : G247985/10-024-04-001
Project Name : BP SITE#11132/3201 35TH AVENUE,OAKLAND CA

ATI I.D. : 504212
Date Extracted: 24-APR-95
Date Analyzed : 24-APR-95
Sample Matrix : WATER

Parameters	Units	Blank Result	Spiked Sample	Spike Conc.	% Rec
FUEL HYDROCARBONS	MG/L	<0.05	0.76	1.0	76

% 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. : 504212
Project # : G247985/10-024-04-001
Project Name: BP SITE#11132/3201 35TH AVENUE,OAKLAND CA

Sample #	Client ID	Matrix	Date Sampled	Date Extracted	Date Analyzed	Dil. Factor
1	STA #11132 INF	WATER	18-APR-95	N/A	26-APR-95	5.00
2	STA #11132 A	WATER	18-APR-95	N/A	26-APR-95	1.00
3	STA #11132 EFF	WATER	18-APR-95	N/A	26-APR-95	1.00

Parameter	Units	1	2	3
CHLOROMETHANE	UG/L	<50	<10	<10
VINYL CHLORIDE	UG/L	<25	<5	<5
BROMOMETHANE	UG/L	<50	<10	<10
CHLOROETHANE	UG/L	<25	<5	<5
ACETONE	UG/L	82	<10	<10
1,1-DICHLOROETHENE	UG/L	<5	<1	<1
METHYLENE CHLORIDE	UG/L	<25	<5	<5
CARBON DISULFIDE	UG/L	<10	<2	<2
TRANS-1,2-DICHLOROETHENE	UG/L	<5	<1	<1
1,1-DICHLOROETHANE	UG/L	<5	<1	<1
CIS-1,2-DICHLOROETHENE	UG/L	<5	<1	<1
CHLOROFORM	UG/L	<5	<1	<1
2-BUTANONE (MEK)	UG/L	<50	<10	<10
1,1,1-TRICHLOROETHANE	UG/L	<5	<1	<1
CARBON TETRACHLORIDE	UG/L	<5	<1	<1
1,2-DICHLOROETHANE	UG/L	<5	<1	<1
BENZENE	UG/L	890	<1	<1
TRICHLOROETHENE	UG/L	<5	<1	<1
1,2-DICHLOROPROPANE	UG/L	<5	<1	<1
BROMODICHLOROMETHANE	UG/L	<5	<1	<1
4-METHYL-2-PENTANONE (MIBK)	UG/L	<50	<10	<10
CIS-1,3-DICHLOROPROPENE	UG/L	<5	<1	<1
TOLUENE	UG/L	80	<2	<2
TRANS-1,3-DICHLOROPROPENE	UG/L	<5	<1	<1
2-HEXANONE (MBK)	UG/L	<50	<10	<10
1,1,2-TRICHLOROETHANE	UG/L	<5	<1	<1
TETRACHLOROETHENE	UG/L	<5	<1	<1
DIBROMOCHLOROMETHANE	UG/L	<5	<1	<1
CHLOROBENZENE	UG/L	<5	<1	<1
ETHYLBENZENE	UG/L	2	<1	<1
XYLENES (TOTAL)	UG/L	270	<1	<1
STYRENE	UG/L	<10	<2	<2
BROMOFORM	UG/L	<25	<5	<5
1,1,2,2-TETRACHLOROETHANE	UG/L	<5	<1	<1
DICHLORODIFLUOROMETHANE	UG/L	<50	<10	<10
TRICHLOROFLUOROMETHANE	UG/L	<25	<5	<5
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	UG/L	<25	<5	<5
1,2-DICHLOROBENZENE	UG/L	<25	<5	<5

GAS CHROMATOGRAPHY/MASS SPECTROSCOPY RESULTS

Test : EPA 624 (GC/MS FOR VOLATILE ORGANICS)
Client : ALISTO ENGINEERING ATI I.D. : 504212
Project # : G247985/10-024-04-001
Project Name: BP SITE#11132/3201 35TH AVENUE,OAKLAND CA

Sample #	Client ID	Matrix	Date Sampled	Date Extracted	Date Analyzed	Dil. Factor
1	STA #11132 INF	WATER	18-APR-95	N/A	26-APR-95	5.00
2	STA #11132 A	WATER	18-APR-95	N/A	26-APR-95	1.00
3	STA #11132 EFF	WATER	18-APR-95	N/A	26-APR-95	1.00

Parameter	Units	1	2	3
1,3-DICHLOROBENZENE	UG/L	<25	<5	<5
1,4-DICHLOROBENZENE	UG/L	<25	<5	<5
SURROGATES				
1,2-DICHLOROETHANE-D4	%	104	106	105
TOLUENE-D8	%	101	101	100
BFB	%	99	99	97

ADDITIONAL COMPOUNDS (SEMI-QUANTITATED)

Method : EPA 624 (GC/MS FOR VOLATILE ORGANICS)
Client : ALISTO ENGINEERING
Project # : G247985/10-024-04-001
Project Name: BP SITE#11132/3201 35TH AVENUE,OAKLAND CA

WATER
ATI I.D.: 504212

Sample	Parameters	Units	Results
1	ALIPHATIC HYDROCARBON C5	UG/L	200
	ALIPHATIC HYDROCARBON C6	UG/L	80
	OXYGENATED HYDROCARBON	UG/L	2000
	TRIMETHYL BENZENE ISOMER	UG/L	70
	UNKNOWN HYDROCARBON	UG/L	70
2	OXYGENATED HYDROCARBON	UG/L	20
3	OXYGENATED HYDROCARBON	UG/L	20

GAS CHROMATOGRAPHY/MASS SPECTROSCOPY RESULTS

Test : EPA 624 (GC/MS FOR VOLATILE ORGANICS)
Client : ALISTO ENGINEERING ATI I.D. : 504212
Project # : G247985/10-024-04-001
Project Name: BP SITE#11132/3201 35TH AVENUE,OAKLAND CA

Sample #	Client ID	Matrix	Date Sampled	Date Extracted	Date Analyzed	Dil. Factor
4	STA #11132 FIELD BLANK	WATER	18-APR-95	N/A	26-APR-95	1.00

Parameter	Units	4
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. : 504212
Project # : G247985/10-024-04-001
Project Name: BP SITE#11132/3201 35TH AVENUE,OAKLAND CA

Sample #	Client ID	Matrix	Date Sampled	Date Extracted	Date Analyzed	Dil. Factor
4	STA #11132 FIELD BLANK	WATER	18-APR-95	N/A	26-APR-95	1.00

Parameter	Units	4
1,3-DICHLOROBENZENE	UG/L	<5
1,4-DICHLOROBENZENE	UG/L	<5
SURROGATES		
1,2-DICHLOROETHANE-D4	%	104
TOLUENE-D8	%	100
BFB	%	96

ADDITIONAL COMPOUNDS (SEMI-QUANTITATED)

Method : EPA 624 (GC/MS FOR VOLATILE ORGANICS) WATER
Client : ALISTO ENGINEERING ATI I.D.: 504212
Project # : G247985/10-024-04-001
Project Name: BP SITE#11132/3201 35TH AVENUE,OAKLAND CA

Sample	Parameters	Units	Results
4	OXYGENATED HYDROCARBON	UG/L	20

Analytical Technologies, Inc.

GAS CHROMATOGRAPHY/MASS SPECTROSCOPY - QUALITY CONTROL

REAGENT BLANK

Test : EPA 8240 (GC/MS FOR VOLATILE ORGANICS)
Blank I.D. : 35162
Client : ALISTO ENGINEERING
Project # : G247985/10-024-04-001
Project Name: BP SITE#11132/3201 35TH AVENUE,OAKLAND CA

ATI I.D. : 504212
Date Extracted: N/A
Date Analyzed : 26-APR-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	%	104
TOLUENE-D8	%	100
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. : 35162 ATI I.D. : 504212
Client : ALISTO ENGINEERING
Project # : G247985/10-024-04-001
Project Name: BP SITE#11132/3201 35TH AVENUE,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 # : 75151
Client : ALISTO ENGINEERING

Project # : G247985/10-024-04-001
Project Name: BP SITE#11132/3201 35TH AVENUE,OAKLAND CA

ATI I.D. : 504212
Date Extracted: N/A
Date Analyzed : 26-APR-95
Sample Matrix : WATER
REF I.D. : 504212-02

Parameters	Units	Sample Result	Conc Spike	Spiked Sample	% Rec	Dup Spike	Dup % Rec	RPD
1,1-DICHLOROETHENE	UG/L	<1	50	51	102	49	98	4
BENZENE	UG/L	<1	50	49	98	46	92	6
TRICHLOROETHENE	UG/L	<1	50	49	98	47	94	4
TOLUENE	UG/L	<2	50	51	102	49	98	4
CHLOROBENZENE	UG/L	<1	50	56	112	53	106	6

% 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 #: 56081
Client : ALISTO ENGINEERING
Project # : G247985/10-024-04-001
Project Name : BP SITE#11132/3201 35TH AVENUE,OAKLAND CA

ATI I.D. : 504212
Date Extracted: N/A
Date Analyzed : 26-APR-95
Sample Matrix : WATER

Parameters	Units	Blank Result	Spiked Sample	Spike Conc.	% Rec
1,1-DICHLOROETHENE	UG/L	<1	51	50	102
BENZENE	UG/L	<1	48	50	96
TRICHLOROETHENE	UG/L	<1	49	50	98
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

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 #: 504212 **INITIALS:** [illegible]

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 (circled)
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 (circled)
	a) are Custody Seals present on Cooler(s) ?	YES	NO (circled)
	If yes, are seals intact ? n/a	YES	NO
	b) are Custody Seals present on the sample ?	YES	NO (circled)
	If yes, are seals intact ? n/a	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 (circled)	NO
5	Is the COC* complete per cooler ? Relinquished: yes/no (yes circled) Requested analysis: yes/no (yes circled)	YES (circled)	NO
6	Is the COC* in agreement with the samples received? # Samples: yes/no (yes circled) Sample ID's: yes/no (yes circled) Date sampled: yes/no (yes circled) Matrix: yes/no (yes circled) # containers: yes/no (yes circled)	YES (circled)	NO
7	Are the samples preserved correctly?	YES (circled)	NO
8	Is there enough sample for all the requested analyses?	YES (circled)	NO
9	Are all samples within holding times for the requested analyses?	YES (circled)	NO
10	Record cooler temperature. Contact PM if temperature is not 4°C ± 2°C.	2.0	°C
	Is ice present in cooler?	YES (circled)	NO
11	Were all sample containers received intact (ie. not broken, leaking, etc.)?	YES (circled)	NO
12	Are samples requiring no headspace, headspace free? N/A	YES	NO (circled)
13	Are VOA 1st stickers required?	YES	NO (circled)
14	Are there special comments on the Chain of Custody which require client contact?	YES	N/A (circled)
15	If yes, was ATI Project Manager notified?	YES	NO

Describe "no" items:

11132 [illegible] for T[illegible] 2-[illegible] [illegible] 5-[illegible] headspace.
Will use other bottle.
11132 Field Blank for T[illegible]; 1 of 1 bottles has 5-[illegible] headspace.

Was client contacted? yes / no OK per Gary. [illegible] 4-20-95

If yes, Date: ________ Name of Person contacted:

Describe actions taken or client instructions: ________

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

ATIFRM902(03/95)

BP 504212

CHAIN OF CUSTODY

No. 055453 Page 1 of 1

CONSULTANT'S NAME	ADDRESS	CITY	STATE	ZIP CODE
ALISTO ENGINEERING GROUP	1777 OAKLAND BLVD.	WALNUT CREEK	CA	94596

BP SITE NUMBER	BP CORNER ADDRESS/CITY	CONSULTANT PROJECT NUMBER
11132	3201 35th AVENUE OAKLAND CA	10-024-04-001

CONSULTANT PROJECT MANAGER	PHONE NUMBER	FAX NUMBER	CONSULTANT CONTRACT NUMBER
PETE BEAVER	510 295-1650	510 295-1823	G247985

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 Bicking	4/19/95	FED EX

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.	TYPE (VOL.)	PRESERVATIVE / LAB SAMPLE #	HCL									COMMENTS
	4/18/95 / 1500	GW			624										
STA# 11132-INF	1502	↓	3	VOA	01	✓									
STA# 11132-A	1505	↓	3	↓	02	✓									
STA# 11132 EFF	1508	↓	3	↓	03	✓									
STA# 11132-FIELD BLANK	1511	↓	3	↓	04	✓									

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
John Bicking	4/18/95	2215			
			Michael Halloran ATI	4/20/95	1030

ADDITIONAL COMMENTS

Received: good condition 2.0°C. MH 4-20-95

CLV-16722

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

5042/2

CHAIN OF CUSTODY

No. 055455 Page 1 of 1

CONSULTANT'S NAME: ALISTO ENGINEERING	ADDRESS: 1777 OAKLAND Blvd #200	CITY: Walnut Creek	STATE: CA ZIP CODE: 94596
BP SITE NUMBER: 11132	BP CORNER ADDRESS/CITY: 3201 35th Avenue OAKLAND CA		CONSULTANT PROJECT NUMBER: 10-024-04-001
CONSULTANT PROJECT MANAGER: PETE BEAVER	PHONE NUMBER: 510 295-1650	FAX NUMBER: 510-295-1823	CONSULTANT CONTRACT NUMBER: 624 7985
BP CONTACT: SCOTT HOOTON	BP ADDRESS: RENTON, WA	PHONE NUMBER	FAX NO
LAB CONTACT: GARY STEWART	LABORATORY ADDRESS: San Diego, CA	PHONE NUMBER	FAX NO.
SAMPLED BY (Please Print Name): JOHN BICKING	SAMPLED BY (Signature): John K. Bicking	SHIPMENT DATE: 4/19/95	SHIPMENT METHOD: FED EX

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

ANALYSIS REQUIRED

AIRBILL NUMBER

SAMPLE DESCRIPTION	COLLECTION DATE 4/19/95	COLLECTION TIME	MATRIX SOIL/WATER	CONTAINERS NO.	CONTAINERS TYPE (VOL.)	PRESERVATIVE LAB SAMPLE #	TPH-D	COMMENTS
STA# 11132 INF		0700	GW	3	LT	05	✓	
STA# 11132 FIELD BLANK		0705	GW	1	LT	06	✓	

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
John K. Bicking	4/19/95				
			Michael Hollen ATI	4/20/95	1030

ADDITIONAL COMMENTS

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.: 505178

May 24, 1995

ALISTO ENGINEERING
1777 OAKLAND BOULEVARD, SUITE 200
WALNUT CREEK, CA 94596

Project Name: BP SITE#11132/3201 35TH AVE. OAKLAND, CA
Project # : G247985/10-024-04-001

Attention: PETE BEAVER

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

Date Received	Quantity	Matrix
May 18, 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 # : G247985/10-024-04-001
Project Name: BP SITE#11132/3201 35TH AVE. OAKLAND, CA

Report Date: May 24, 1995
ATI I.D. : 505178

ATI #	Client Description	Matrix	Date Collected
1	STA#11132 INF	WATER	16-MAY-95
2	STA#11132 A	WATER	16-MAY-95
3	STA#11132 EFF	WATER	16-MAY-95
4	STA#11132 FIELD BLANK	WATER	16-MAY-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 # : G247985/10-024-04-001
Project Name: BP SITE#11132/3201 35TH AVE. OAKLAND, CA

ATI I.D.: 505178

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

Analytical Technologies, Inc.

GAS CHROMATOGRAPHY RESULTS

Test : MOD EPA 8015-CDOHS (FUEL HYDROCARBONS: C7-C24)
Client : ALISTO ENGINEERING ATI I.D. : 505178
Project # : G247985/10-024-04-001
Project Name: BP SITE#11132/3201 35TH AVE. OAKLAND, CA

Sample #	Client ID	Matrix	Date Sampled	Date Extracted	Date Analyzed	Dil. Factor
1	STA#11132 INF	WATER	16-MAY-95	19-MAY-95	22-MAY-95	5.00
4	STA#11132 FIELD BLANK	WATER	16-MAY-95	19-MAY-95	22-MAY-95	5.00

Parameter	Units	1	4
FUEL HYDROCARBONS	MG/L	1.7	1.7
HYDROCARBON RANGE		C7-C14	C7-C14
HYDROCARBONS QUANTITATED USING		GASOLINE	GASOLINE
SURROGATES			
BIS(2-ETHYLHEXYL)PHTHALATE	%	103	104

GAS CHROMATOGRAPHY - QUALITY CONTROL

REAGENT BLANK

Test : MOD EPA 8015-CDOHS (FUEL HYDROCARBONS)
Blank I.D. : 35466
Client : ALISTO ENGINEERING
Project # : G247985/10-024-04-001
Project Name: BP SITE#11132/3201 35TH AVE. OAKLAND, CA

ATI I.D. : 505178
Date Extracted: 19-MAY-95
Date Analyzed : 22-MAY-95
Dil. Factor : 1.00

Parameters	Units	Results
FUEL HYDROCARBONS	MG/L	<0.050
HYDROCARBON RANGE		-
HYDROCARBONS QUANTITATED USING		-
SURROGATES		
BIS(2-ETHYLHEXYL) PHTHALATE	%	59

GAS CHROMATOGRAPHY - QUALITY CONTROL

MSMSD

Test : MOD EPA 8015-CDOHS (FUEL HYDROCARBONS)
MSMSD # : 75838
Client : ALISTO ENGINEERING

Project # : G247985/10-024-04-001
Project Name: BP SITE#11132/3201 35TH AVE. OAKLAND, CA

ATI I.D. : 505178
Date Extracted: 19-MAY-95
Date Analyzed : 20-MAY-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	1.0	100	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 RESULTS

Test : EPA 624 (GC/MS FOR VOLATILE ORGANICS)
Client : ALISTO ENGINEERING ATI I.D. : 505178
Project # : G247985/10-024-04-001
Project Name: BP SITE#11132/3201 35TH AVE. OAKLAND, CA

Sample #	Client ID	Matrix	Date Sampled	Date Extracted	Date Analyzed	Dil. Factor
1	STA#11132 INF	WATER	16-MAY-95	N/A	24-MAY-95	5.00
2	STA#11132 A	WATER	16-MAY-95	N/A	24-MAY-95	1.00
3	STA#11132 EFF	WATER	16-MAY-95	N/A	24-MAY-95	1.00

Parameter	Units	1	2	3
CHLOROMETHANE	UG/L	<50	<10	<10
VINYL CHLORIDE	UG/L	<25	<5	<5
BROMOMETHANE	UG/L	<50	<10	<10
CHLOROETHANE	UG/L	<25	<5	<5
ACETONE	UG/L	<50	<10	<10
1,1-DICHLOROETHENE	UG/L	<5	<1	<1
METHYLENE CHLORIDE	UG/L	<25	<5	<5
CARBON DISULFIDE	UG/L	<10	<2	<2
TRANS-1,2-DICHLOROETHENE	UG/L	<5	<1	<1
1,1-DICHLOROETHANE	UG/L	<5	<1	<1
CIS-1,2-DICHLOROETHENE	UG/L	<5	<1	<1
CHLOROFORM	UG/L	<5	<1	<1
2-BUTANONE (MEK)	UG/L	<50	<10	<10
1,1,1-TRICHLOROETHANE	UG/L	<5	<1	<1
CARBON TETRACHLORIDE	UG/L	<5	<1	<1
1,2-DICHLOROETHANE	UG/L	14	<1	<1
BENZENE	UG/L	910	<1	<1
TRICHLOROETHENE	UG/L	<5	<1	<1
1,2-DICHLOROPROPANE	UG/L	<5	<1	<1
BROMODICHLOROMETHANE	UG/L	<5	<1	<1
4-METHYL-2-PENTANONE (MIBK)	UG/L	<50	<10	<10
CIS-1,3-DICHLOROPROPENE	UG/L	<5	<1	<1
TOLUENE	UG/L	84	<2	<2
TRANS-1,3-DICHLOROPROPENE	UG/L	<5	<1	<1
2-HEXANONE (MBK)	UG/L	<50	<10	<10
1,1,2-TRICHLOROETHANE	UG/L	<5	<1	<1
TETRACHLOROETHENE	UG/L	<5	<1	<1
DIBROMOCHLOROMETHANE	UG/L	<5	<1	<1
CHLOROBENZENE	UG/L	<5	<1	<1
ETHYLBENZENE	UG/L	26	<1	<1
XYLENES (TOTAL)	UG/L	250	<1	<1
STYRENE	UG/L	<10	<2	<2
BROMOFORM	UG/L	<25	<5	<5
1,1,2,2-TETRACHLOROETHANE	UG/L	<5	<1	<1
DICHLORODIFLUOROMETHANE	UG/L	<50	<10	<10
TRICHLOROFLUOROMETHANE	UG/L	<25	<5	<5
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	UG/L	<25	<5	<5
1,2-DICHLOROBENZENE	UG/L	<25	<5	<5

GAS CHROMATOGRAPHY/MASS SPECTROSCOPY RESULTS

Test : EPA 624 (GC/MS FOR VOLATILE ORGANICS)
Client : ALISTO ENGINEERING
Project # : G247985/10-024-04-001
Project Name: BP SITE#11132/3201 35TH AVE. OAKLAND, CA

ATI I.D. : 505178

Sample #	Client ID	Matrix	Date Sampled	Date Extracted	Date Analyzed	Dil. Factor
1	STA#11132 INF	WATER	16-MAY-95	N/A	24-MAY-95	5.00
2	STA#11132 A	WATER	16-MAY-95	N/A	24-MAY-95	1.00
3	STA#11132 EFF	WATER	16-MAY-95	N/A	24-MAY-95	1.00

Parameter	Units	1	2	3
1,3-DICHLOROBENZENE	UG/L	<25	<5	<5
1,4-DICHLOROBENZENE	UG/L	<25	<5	<5
SURROGATES				
1,2-DICHLOROETHANE-D4	%	94	94	96
TOLUENE-D8	%	96	99	100
BFB	%	96	93	94

ADDITIONAL COMPOUNDS (SEMI-QUANTITATED)

Method : EPA 624 (GC/MS FOR VOLATILE ORGANICS)
Client : ALISTO ENGINEERING
Project # : G247985/10-024-04-001
Project Name: BP SITE#11132/3201 35TH AVE. OAKLAND, CA

WATER
ATI I.D.: 505178

Sample	Parameters	Units	Results
1	ALIPHATIC HYDROCARBON C4	UG/L	100
	ALIPHATIC HYDROCARBON C5	UG/L	300
	ALIPHATIC HYDROCARBON C6	UG/L	100
	OXYGENATED HYDROCARBON	UG/L	2000
	TRIMETHYLBENZENE ISOMER	UG/L	60
2	OXYGENATED HYDROCARBON	UG/L	30
3	OXYGENATED HYDROCARBON	UG/L	20

GAS CHROMATOGRAPHY/MASS SPECTROSCOPY RESULTS

Test : EPA 624 (GC/MS FOR VOLATILE ORGANICS)
Client : ALISTO ENGINEERING ATI I.D. : 505178
Project # : G247985/10-024-04-001
Project Name: BP SITE#11132/3201 35TH AVE. OAKLAND, CA

Sample #	Client ID	Matrix	Date Sampled	Date Extracted	Date Analyzed	Dil. Factor
4	STA#11132 FIELD BLANK	WATER	16-MAY-95	N/A	24-MAY-95	5.00

Parameter	Units	4
CHLOROMETHANE	UG/L	<50
VINYL CHLORIDE	UG/L	<25
BROMOMETHANE	UG/L	<50
CHLOROETHANE	UG/L	<25
ACETONE	UG/L	<50
1,1-DICHLOROETHENE	UG/L	<5
METHYLENE CHLORIDE	UG/L	<25
CARBON DISULFIDE	UG/L	<10
TRANS-1,2-DICHLOROETHENE	UG/L	<5
1,1-DICHLOROETHANE	UG/L	<5
CIS-1,2-DICHLOROETHENE	UG/L	<5
CHLOROFORM	UG/L	<5
2-BUTANONE (MEK)	UG/L	<50
1,1,1-TRICHLOROETHANE	UG/L	<5
CARBON TETRACHLORIDE	UG/L	<5
1,2-DICHLOROETHANE	UG/L	13
BENZENE	UG/L	780
TRICHLOROETHENE	UG/L	<5
1,2-DICHLOROPROPANE	UG/L	<5
BROMODICHLOROMETHANE	UG/L	<5
4-METHYL-2-PENTANONE (MIBK)	UG/L	<50
CIS-1,3-DICHLOROPROPENE	UG/L	<5
TOLUENE	UG/L	52
TRANS-1,3-DICHLOROPROPENE	UG/L	<5
2-HEXANONE (MBK)	UG/L	<50
1,1,2-TRICHLOROETHANE	UG/L	<5
TETRACHLOROETHENE	UG/L	<5
DIBROMOCHLOROMETHANE	UG/L	<5
CHLOROBENZENE	UG/L	<5
ETHYLBENZENE	UG/L	20
XYLENES (TOTAL)	UG/L	170
STYRENE	UG/L	<10
BROMOFORM	UG/L	<25
1,1,2,2-TETRACHLOROETHANE	UG/L	<5
DICHLORODIFLUOROMETHANE	UG/L	<50
TRICHLOROFLUOROMETHANE	UG/L	<25
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	UG/L	<25
1,2-DICHLOROBENZENE	UG/L	<25

Test : EPA 624 (GC/MS FOR VOLATILE ORGANICS)
Client : ALISTO ENGINEERING ATI I.D. : 505178
Project # : G247985/10-024-04-001
Project Name: BP SITE#11132/3201 35TH AVE. OAKLAND, CA

Sample #	Client ID	Matrix	Date Sampled	Date Extracted	Date Analyzed	Dil. Factor
4	STA#11132 FIELD BLANK	WATER	16-MAY-95	N/A	24-MAY-95	5.00

Parameter	Units	4
1,3-DICHLOROBENZENE	UG/L	<25
1,4-DICHLOROBENZENE	UG/L	<25
SURROGATES		
1,2-DICHLOROETHANE-D4	%	96
TOLUENE-D8	%	99
BFB	%	95

ADDITIONAL COMPOUNDS (SEMI-QUANTITATED)

Method : EPA 624 (GC/MS FOR VOLATILE ORGANICS)
Client : ALISTO ENGINEERING
Project # : G247985/10-024-04-001
Project Name: BP SITE#11132/3201 35TH AVE. OAKLAND, CA

WATER
ATI I.D.: 505178

Sample	Parameters	Units	Results
4	ALIPHATIC HYDROCARBON C4	UG/L	80
	ALIPHATIC HYDROCARBON C4	UG/L	100
	ALIPHATIC HYDROCARBON C5	UG/L	200
	ALIPHATIC HYDROCARBON C6	UG/L	90
	OXYGENATED HYDROCARBON	UG/L	2000

GAS CHROMATOGRAPHY/MASS SPECTROSCOPY - QUALITY CONTROL

REAGENT BLANK

Test : EPA 8240 (GC/MS FOR VOLATILE ORGANICS)
Blank I.D. : 35502
Client : ALISTO ENGINEERING
Project # : G247985/10-024-04-001
Project Name: BP SITE#11132/3201 35TH AVE. OAKLAND, CA

ATI I.D. : 505178
Date Extracted: N/A
Date Analyzed : 24-MAY-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	%	95
TOLUENE-D8	%	98
BFB	%	94

GAS CHROMATOGRAPHY/MASS SPECTROSCOPY - QUALITY CONTROL

REAGENT BLANK
ADDITIONAL COMPOUNDS (SEMI-QUANTITATED)

Test : EPA 8240 (GC/MS FOR VOLATILE ORGANICS)
Blank I.D. : 35502
Client : ALISTO ENGINEERING
Project # : G247985/10-024-04-001
Project Name: BP SITE#11132/3201 35TH AVE. OAKLAND, CA

ATI I.D. : 505178

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 # : 75895
Client : ALISTO ENGINEERING

Project # : G247985/10-024-04-001
Project Name: BP SITE#11132/3201 35TH AVE. OAKLAND, CA

ATI I.D. : 505178
Date Extracted: N/A
Date Analyzed : 24-MAY-95
Sample Matrix : WATER
REF I.D. : 505178-02

Parameters	Units	Sample Result	Conc Spike	Spiked Sample	% Rec	Dup Spike	Dup % Rec	RPD
1,1-DICHLOROETHENE	UG/L	<1	50	51	102	51	102	0
BENZENE	UG/L	<1	50	51	102	50	100	2
TRICHLOROETHENE	UG/L	<1	50	49	98	48	96	2
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 #: 56705
Client : ALISTO ENGINEERING
Project # : G247985/10-024-04-001
Project Name : BP SITE#11132/3201 35TH AVE. OAKLAND, CA

ATI I.D. : 505178
Date Extracted: N/A
Date Analyzed : 24-MAY-95
Sample Matrix : WATER

Parameters	Units	Blank Result	Spiked Sample	Spike Conc.	% Rec
1,1-DICHLOROETHENE	UG/L	<1	56	50	112
BENZENE	UG/L	<1	53	50	106
TRICHLOROETHENE	UG/L	<1	51	50	102
TOLUENE	UG/L	<2	54	50	108
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

ACCESSION #: 505178 INITIALS: Q. R

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 ? (N/A)	YES	NO
	b) are Custody Seals present on the sample ?	YES	(NO)
	If yes, are seals intact ? (N/A)	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 lot 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

CHAIN OF CUSTODY

No. 055458 | 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
11132	3201 35th AVE. OAKLAND, CA	10-024-04-001

CONSULTANT PROJECT MANAGER	PHONE NUMBER	FAX NUMBER	CONSULTANT CONTRACT NUMBER
Pete BEAVER	(510) 295-1650	(510) 295-1823	G2.47985

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

LAB CONTACT	LABORATORY ADDRESS	PHONE NUMBER	FAX NO.
CARLA STEWART	San Diego, CA	(619) 458-9141	(619) 558-2389

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

AIRBILL NUMBER:

SAMPLE DESCRIPTION	COLLECTION DATE / TIME	MATRIX SOIL/WATER	CONTAINERS NO.	CONTAINERS TYPE (VOL.)	PRESERVATIVE LAB SAMPLE #	ANALYSIS REQUIRED 624	ANALYSIS REQUIRED TPH-D	COMMENTS
STA# 11132 INF	5/16/95 10:25	GW	3	VOA	01	✓		
	10:28		2	Lt	↓		✓	
STA# 11132 A	10:30		3	VOA	02	✓		
STA# 11132 EFF	10:35		3	VOA	03	✓		
	10:38							
STA# 11132 FIELD BLANK	10:40		3	VOA	04	✓		
	10:42		2	Lt	↓		✓	

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
John K. Bicking	5/16/95				
			CA Test	5/18/95	10:10

ADDITIONAL COMMENTS: 505178 2.2°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.: 506267

July 12, 1995

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

Project Name: BP SITE#11132/35TH AVE. OAKLAND, CA
Project # : G247985/10-024-07-001

Attention: PETE BEAVER

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

Date Received	Quantity	Matrix
June 22, 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 # : G247985/10-024-07-001
Project Name: BP SITE#11132/35TH AVE. OAKLAND, CA

Report Date: July 12, 1995
ATI I.D. : 506267

ATI #	Client Description	Matrix	Date Collected
1	STA# 11132 INF	WATER	19-JUN-95
2	STA# 11132 A	WATER	19-JUN-95
3	STA# 11132 EFF	WATER	19-JUN-95
4	STA# 11132 FIELD BLANK	WATER	19-JUN-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 # : G247985/10-024-07-001
Project Name: BP SITE#11132/35TH AVE. OAKLAND, CA

ATI I.D.: 506267

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

Analytical Technologies, Inc GAS CHROMATOGRAPHY RESULTS

Test : MOD EPA 8015-CDOHS (FUEL HYDROCARBONS: C7-C24)
Client : ALISTO ENGINEERING ATI I.D. : 506267
Project # : G247985/10-024-07-001
Project Name: BP SITE#11132/35TH AVE. OAKLAND, CA

Sample #	Client ID	Matrix	Date Sampled	Date Extracted	Date Analyzed	Dil. Factor
1	STA# 11132 INF	WATER	19-JUN-95	26-JUN-95	26-JUN-95	1.00

Parameter	Units	1
FUEL HYDROCARBONS	MG/L	0.37
HYDROCARBON RANGE		C7-C14
HYDROCARBONS QUANTITATED USING		GASOLINE
SURROGATES		
BIS(2-ETHYLHEXYL) PHTHALATE	%	97

GAS CHROMATOGRAPHY - QUALITY CONTROL

REAGENT BLANK

Test : MOD EPA 8015-CDOHS (FUEL HYDROCARBONS)
Blank I.D. : 35861
Client : ALISTO ENGINEERING
Project # : G247985/10-024-07-001
Project Name: BP SITE#11132/35TH AVE. OAKLAND, CA

ATI I.D. : 506267
Date Extracted: 26-JUN-95
Date Analyzed : 26-JUN-95
Dil. Factor : 1.00

Parameters	Units	Results
FUEL HYDROCARBONS	MG/L	<0.050
HYDROCARBON RANGE		-
HYDROCARBONS QUANTITATED USING		-
SURROGATES		
BIS(2-ETHYLHEXYL) PHTHALATE	%	96

GAS CHROMATOGRAPHY - QUALITY CONTROL

MSMSD

Test : MOD EPA 8015-CDOHS (FUEL HYDROCARBONS)
MSMSD # : 76723
Client : ALISTO ENGINEERING

Project # : G247985/10-024-07-001
Project Name: BP SITE#11132/35TH AVE. OAKLAND, CA

ATI I.D. : 506267
Date Extracted: 26-JUN-95
Date Analyzed : 27-JUN-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	0.97	97	0.95	95	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 RESULTS

Test : EPA 624 (GC/MS FOR VOLATILE ORGANICS)
Client : ALISTO ENGINEERING ATI I.D. : 506267
Project # : G247985/10-024-07-001
Project Name: BP SITE#11132/35TH AVE. OAKLAND, CA

Sample #	Client ID	Matrix	Date Sampled	Date Extracted	Date Analyzed	Dil. Factor
1	STA# 11132 INF	WATER	19-JUN-95	N/A	30-JUN-95	1.00
2	STA# 11132 A	WATER	19-JUN-95	N/A	30-JUN-95	1.00
3	STA# 11132 EFF	WATER	19-JUN-95	N/A	30-JUN-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	15	<10	11
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	6	<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	<2	<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	<1	<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. : 506267
Project # : G247985/10-024-07-001
Project Name: BP SITE#11132/35TH AVE. OAKLAND, CA

Sample #	Client ID	Matrix	Date Sampled	Date Extracted	Date Analyzed	Dil. Factor
1	STA# 11132 INF	WATER	19-JUN-95	N/A	30-JUN-95	1.00
2	STA# 11132 A	WATER	19-JUN-95	N/A	30-JUN-95	1.00
3	STA# 11132 EFF	WATER	19-JUN-95	N/A	30-JUN-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	%	84	83	86
TOLUENE-D8	%	97	95	94
BFB	%	89	87	88

ADDITIONAL COMPOUNDS (SEMI-QUANTITATED)

Method : EPA 624 (GC/MS FOR VOLATILE ORGANICS)
Client : ALISTO ENGINEERING
Project # : G247985/10-024-07-001
Project Name: BP SITE#11132/35TH AVE. OAKLAND, CA

WATER
ATI I.D.: 506267

Sample	Parameters	Units	Results
1	ALIPHATIC HYDROCARBON C5	UG/L	50
	OXYGENATED HYDROCARBON	UG/L	900
	ALIPHATIC HYDROCARBON C7	UG/L	20
	ALIPHATIC HYDROCARBON C8	UG/L	10
	ALIPHATIC HYDROCARBON C8	UG/L	30
2	OXYGENATED HYDROCARBON	UG/L	100
	METHYL PROPANOL ISOMER	UG/L	20
3	METHYL PROPANOL ISOMER	UG/L	30

GAS CHROMATOGRAPHY/MASS SPECTROSCOPY RESULTS

Test : EPA 624 (GC/MS FOR VOLATILE ORGANICS)
Client : ALISTO ENGINEERING ATI I.D. : 506267
Project # : G247985/10-024-07-001
Project Name: BP SITE#11132/35TH AVE. OAKLAND, CA

Sample #	Client ID	Matrix	Date Sampled	Date Extracted	Date Analyzed	Dil. Factor
4	STA# 11132 FIELD BLANK	WATER	19-JUN-95	N/A	30-JUN-95	1.00

Parameter	Units	4
CHLOROMETHANE	UG/L	<10
VINYL CHLORIDE	UG/L	<5
BROMOMETHANE	UG/L	<10
CHLOROETHANE	UG/L	<5
ACETONE	UG/L	13
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. : 506267
Project # : G247985/10-024-07-001
Project Name: BP SITE#11132/35TH AVE. OAKLAND, CA

Sample #	Client ID	Matrix	Date Sampled	Date Extracted	Date Analyzed	Dil. Factor
4	STA# 11132 FIELD BLANK	WATER	19-JUN-95	N/A	30-JUN-95	1.00

Parameter	Units	4
1,3-DICHLOROBENZENE	UG/L	<5
1,4-DICHLOROBENZENE	UG/L	<5
SURROGATES		
1,2-DICHLOROETHANE-D4	%	84
TOLUENE-D8	%	95
BFB	%	89

ADDITIONAL COMPOUNDS (SEMI-QUANTITATED)

Method : EPA 624 (GC/MS FOR VOLATILE ORGANICS)
Client : ALISTO ENGINEERING
Project # : G247985/10-024-07-001
Project Name: BP SITE#11132/35TH AVE. OAKLAND, CA

WATER
ATI I.D.: 506267

Sample	Parameters	Units	Results
4	METHYL PROPANOL ISOMER	UG/L	30

GAS CHROMATOGRAPHY/MASS SPECTROSCOPY - QUALITY CONTROL

REAGENT BLANK

Test : EPA 8240 (GC/MS FOR VOLATILE ORGANICS)
Blank I.D. : 35933
Client : ALISTO ENGINEERING
Project # : G247985/10-024-07-001
Project Name: BP SITE#11132/35TH AVE. OAKLAND, CA

ATI I.D. : 506267
Date Extracted: N/A
Date Analyzed : 30-JUN-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	%	81
TOLUENE-D8	%	96
BFB	%	84

REAGENT BLANK
ADDITIONAL COMPOUNDS (SEMI-QUANTITATED)

Test : EPA 8240 (GC/MS FOR VOLATILE ORGANICS)
Blank I.D. : 35933 ATI I.D. : 506267
Client : ALISTO ENGINEERING
Project # : G247985/10-024-07-001
Project Name: BP SITE#11132/35TH AVE. 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 # : 76771
Client : ALISTO ENGINEERING

Project # : G247985/10-024-07-001
Project Name: BP SITE#11132/35TH AVE. OAKLAND, CA

ATI I.D. : 506267
Date Extracted: N/A
Date Analyzed : 29-JUN-95
Sample Matrix : WATER
REF I.D. : 506272-01

Parameters	Units	Sample Result	Conc Spike	Spiked Sample	% Rec	Dup Spike	Dup % Rec	RPD
1,1-DICHLOROETHENE	UG/L	<1	50	49	98	44	88	11
BENZENE	UG/L	<1	50	53	106	50	100	6
TRICHLOROETHENE	UG/L	<1	50	52	104	48	96	8
TOLUENE	UG/L	<2	50	53	106	50	100	6
CHLOROBENZENE	UG/L	<1	50	56	112	54	108	4

% 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 #: 57443
Client : ALISTO ENGINEERING
Project # : G247985/10-024-07-001
Project Name : BP SITE#11132/35TH AVE. OAKLAND, CA

ATI I.D. : 506267
Date Extracted: N/A
Date Analyzed : 30-JUN-95
Sample Matrix : WATER

Parameters	Units	Blank Result	Spiked Sample	Spike Conc.	% Rec
1,1-DICHLOROETHENE	UG/L	<1	48	50	96
BENZENE	UG/L	<1	49	50	98
TRICHLOROETHENE	UG/L	<1	46	50	92
TOLUENE	UG/L	<2	50	50	100
CHLOROBENZENE	UG/L	<1	53	50	106

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

• ACCESSION #: 506267 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 (#471)	
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.	3.9 °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

BP

ATI # 506267

CHAIN OF CUSTODY

No. 061516 Page 1 of 1

CONSULTANT'S NAME: Alisto Engineering Group

ADDRESS: 1575 Treat Blvd Ste 201 | CITY: Walnut Creek | STATE: CA | ZIP CODE: 94596

BP SITE NUMBER: 11132

BP CORNER ADDRESS/CITY: 35th Ave. OAKLAND, CA

CONSULTANT PROJECT NUMBER: 10-024-07-001

CONSULTANT PROJECT MANAGER: Pete Bonner

PHONE NUMBER: 510 295-1650

FAX NUMBER: 510 295 1823

CONSULTANT CONTRACT NUMBER: C 247985

BP CONTACT: Scott Hooton

BP ADDRESS: Renton, WA

PHONE NUMBER:

FAX NO:

LAB CONTACT: Gary Stewart

LABORATORY ADDRESS: San Diego, CA

PHONE NUMBER:

FAX NO:

SAMPLED BY (Please Print Name): John Bucking

SAMPLED BY (Signature): John K. Buck

SHIPMENT DATE:

SHIPMENT METHOD: Bellaire

AIRBILL NUMBER: 774148

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

ANALYSIS REQUIRED

SAMPLE DESCRIPTION	COLLECTION DATE 6/19/95 / COLLECTION TIME	MATRIX SOIL/WATER	CONTAINERS NO.	CONTAINERS TYPE (VOL.)	PRESERVATIVE / LAB SAMPLE #	HCl 624	none TPH-D							COMMENTS
STA # 11132 INF	1610	GW	5	2L 3VOA	01	✓	✓							
STA # 11132 A	1612		3	VOA	02	✓								
STA # 11132 EFF	1614	↓	3		03	✓								
STA # 11132 FIELD BLANK	1616	↓	3	↓	04	✓								

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
John K. Buck	6/20/95	1100			
			(ATI)	6-22-95	08:30

ADDITIONAL COMMENTS: cooler # 471 = 3.9°

CLV-16722

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