

January 29, 1996

Ms. Jennifer Eberle Hazardous Materails Specialist Hazardous Materails Division Alameda County Health Care Services Agency 1131 Harbor Bay Parkway Alameda, CA 94502

SUBJECT: GROUNDWATER MONITORING AND SAMPLING REPORT,

TRANSBAY CONTAINER TERMINAL (TBCT),
707 FERRY STREET, OAKLAND, CALIFORNIA,

STID # 3982

Dear Jennifer:

Enclosed you will find a copy of the Groundwater Monitoring and Sampling Report for a UST site located at TransBay Container Terminal (TBCT), 707 Ferry Street, Oakland, California. The Fourth Quarter 1995 Report was prepared on the behalf of the Port of Oakland by Alisto Engineering Group. The report address groundwater monitoring of a monitoring well that constructed in the vicinity of Port tank site CF-04.

If you have any questions or comments, please call me at 272-1373.

Sincerely,

John Prall, R.G.

Associate Environmental Scientist

Enclosed

cc: Neil Warner Dave Adams

GROUNDWATER MONITORING AND SAMPLING REPORT

Port of Oakland Berth 25 707 Ferry Street Oakland, California

Project No. 10-255-01-004

Prepared for:

Port of Oakland 530 Water Street Oakland, California

Prepared by:

Alisto Engineering Group 1575 Treat Boulevard, Suite 201 Walnut Creek, California

January 17, 1996

Brady Nagle

Project Manager

Al Sevilla, P.E.

Principal



GROUNDWATER MONITORING AND SAMPLING REPORT

Port of Oakland Berth 25 707 Ferry Street Oakland, California

Project No. 10-255-01-004

January 17, 1996

INTRODUCTION

This report presents the results and findings of the November 13, 1995 groundwater monitoring and sampling conducted by Alisto Engineering Group at the Transbay Container Terminal, Port of Oakland, Berth 25, 707 Ferry Street, Oakland, California. A site vicinity map is shown on Figure 1.

The scope of work includes monitoring and sampling of one groundwater monitoring well, MW-1, which was installed on May 18, 1994 in the location of a former 10,000-gallon diesel underground fuel storage tank (CF-04). The undeground storage tank was removed on December 3, 1993.

FIELD PROCEDURES

Field activities were performed in accordance with the procedures and guidelines of the Alameda County Health Care Services Agency and the California Regional Water Quality Control Board, San Francisco Bay Region.

Before purging and sampling, the groundwater level in Well MW-1 was measured from a permanent mark on top of the casing to the nearest 0.01 foot using an electronic sounder. The survey data and groundwater elevation measurements collected to date are presented in Table 1.

Before sample collection, Well MW-1 was purged of 3 casing volumes while recording field readings of pH, temperature, and electrical conductivity. The groundwater samples were collected for laboratory analysis by lowering a bottom-fill, disposable bailer to just below the water level in the well. The samples were transferred from the bailer into laboratory-supplied containers. The field procedures for groundwater monitoring well sampling and the water sampling field survey forms are presented in Appendix A.

SAMPLING AND ANALYTICAL RESULTS

The groundwater sample was analyzed by Clayton Environmental Consultants, a state-certified laboratory, for the following:



- Total petroleum hydrocarbons as diesel (TPH-D) using EPA Method 8015 (modified)
- Total petroleum hydrocarbons as motor oil (TPH-MO) using EPA Method 8015 (modified)
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX) using EPA Method 8020
- Total dissolved solids using EPA Method 160.1

The results of monitoring and laboratory analysis of the groundwater samples for this and previous events are summarized in Table 1. The potentiometric groundwater elevations interpreted from MW-1 and from monitoring wells at the neighboring former Mobil Oil Bulk Terminal at 909 Ferry Street are shown on Figure 2. The field procedures for chain of custody documentation and the laboratory report and chain of custody record are presented in Appendix B.

SUMMARY OF FINDINGS

The findings of the November 13, 1995 groundwater monitoring and sampling event are summarized as follows:

- Free product or sheen was not observed in Monitoring Well MW-1.
- Groundwater elevation data from the one well onsite and the wells at the neighboring former Mobil Oil Bulk Terminal site indicate a westerly gradient at the site.
- TPH-D was detected at a concentration of 110 micrograms per liter (ug/l) in the sample collected from MW-1. TPH-MO was detected at a concentration of 1300 ug/l. BTEX constituents were not detected above the reported detection limits.
- Total dissolved solids was detected at a concentration of 1200 milligrams per liter in the sample collected from MW-1.

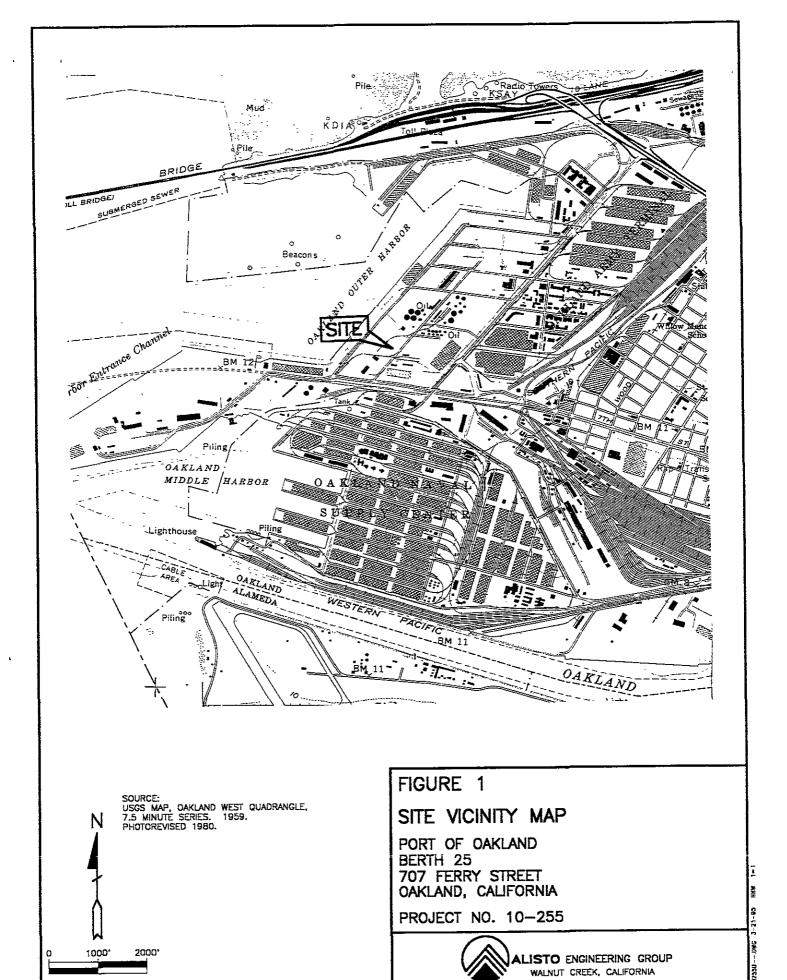


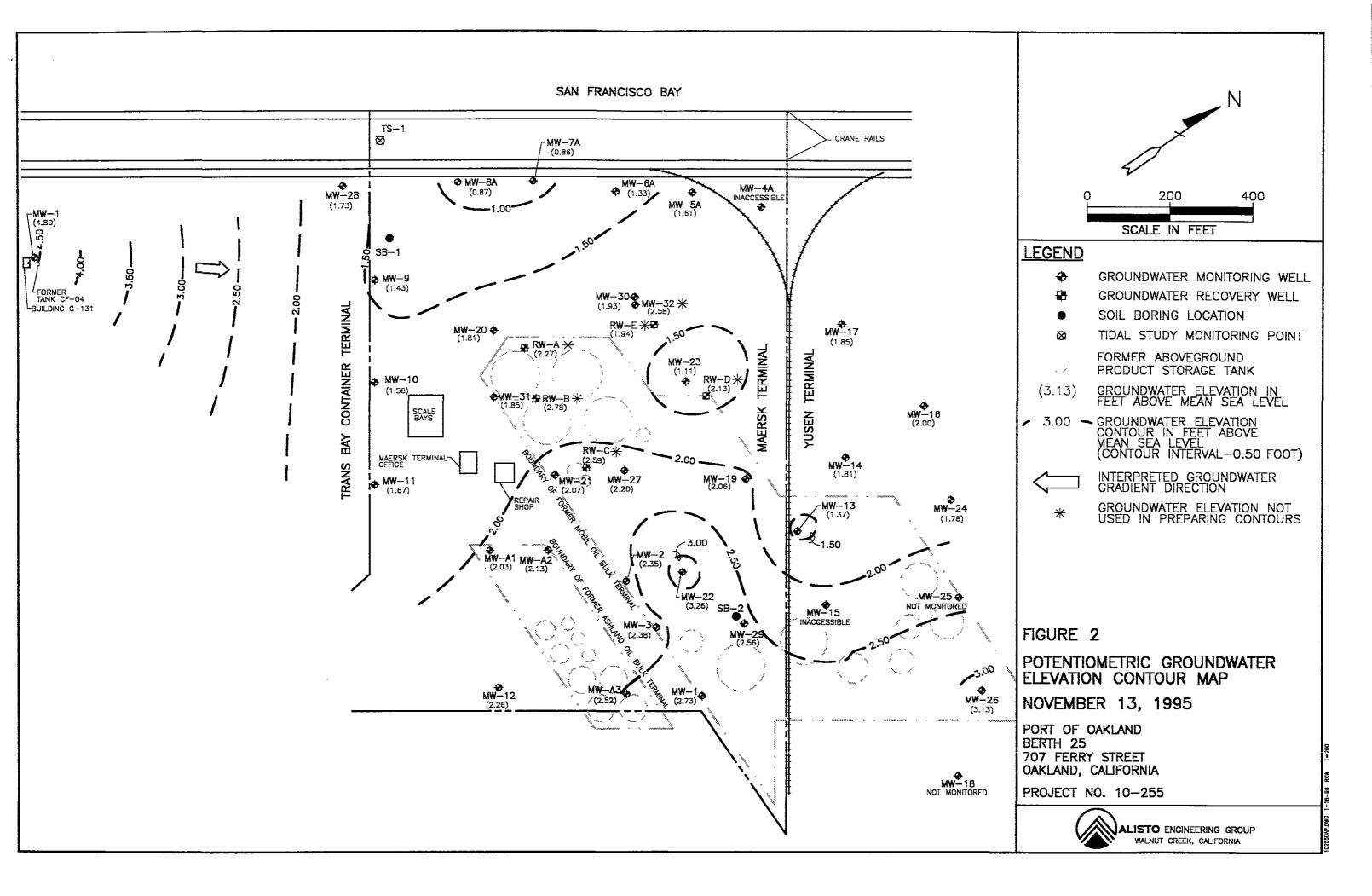
TABLE 1 - SUMMARY OF RESULTS OF GROUNDWATER MONITORING AND SAMPLING PORT OF OAKLAND, BERTH 25 707 FERRY STREET, OAKLAND, CALIFORNIA

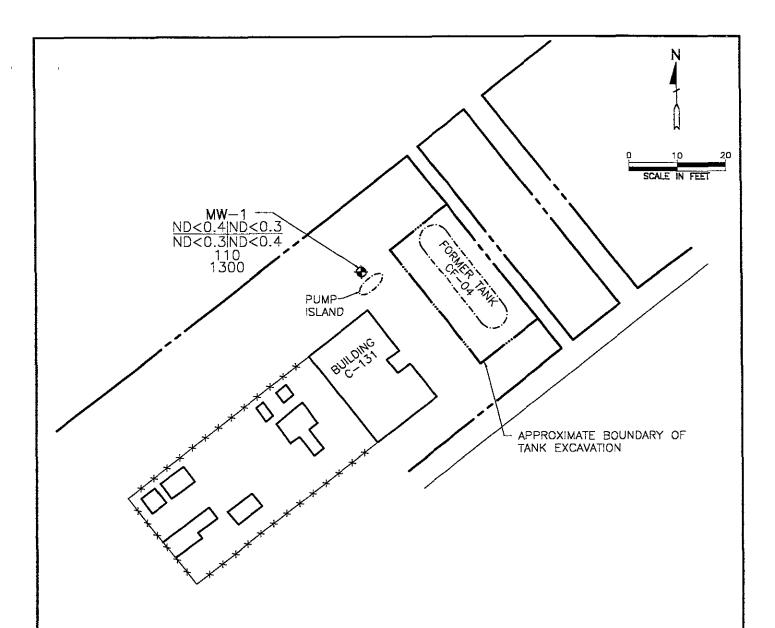
ALISTO PROJECT NO. 10-255

WELL ID	DATE OF SAMPLING/ MONITORING	CASING ELEVATION (a) (feet)	DEPTH TO WATER (feet)	GROUNDWATER ELEVATION (b) (feet)	TPH-D (ug/l)	TPH-MO (ug/l)	B (ug/l)	T (ug/l)	E (ug/l)	X (ug/l)	TDS (mg/l)	LAB
MW-1	06/09/94	14.65	9.88	4.77	410		ND<0.50	ND<0.50	ND<0.50	ND<0.50	1900	D&M
MW-1	02/22/95	14.65	9.66	4.99	990	120	ND<0.4	ND<0.3	ND<0.3	ND<0.4	1100	CEC
QC-1 (c)	02/22/95	14.65	5.00 				ND<0.4	ND<0.3	ND<0.3	ND<0.4		CEC
MW-1	05/24/95	14.65	9.71	4.94	180	600	ND<0.4	ND<0.3	ND<0.3	ND<0.4	1200	CEC
QC-1 (c)	05/24/95	14.65					ND<0.4	ND<0.3	ND<0.3	ND<0.4		CEC
MW-1	08/24/95	14.65	9.85	4.80	08>C N	400	ND<0.4	ND<0.3	ND<0.3	ND<0.4	1300	CEC
QC-1 (c)	08/24/95	1-7.00		***	***		ND<0.4	ND<0.3	ND<0.3	ND<0.4		CEC
MW-1	11/13/95	14.65	10.18	4.47	110	1300	ND<0.4	ND<0.3	ND<0.3	ND<0.4	1200	CEC
QC-1 (c)	11/13/95						ND<0.4	ND<0.3	ND<0.3	ND<0.4		CEC
								N	ND 00	NES O A		CEC
QC-2 (d)	02/22/95						ND<0.4	ND<0.3	ND<0.3	ND<0.4		CEC
QC-2 (d)	05/24/95		***				ND<0.4	ND<0.3	ND<0.3	ND<0.4		CEC
QC-2 (d)	08/24/95			10 1444			ND<0.4	ND<0.3	ND<0.3	ND<0.4		CEC
QC-2 (d)	11/13/95						ND<0.4	ND<0.3	ND<0.3	ND<0.4		CEC
ABBREVIA	ABBREVIATIONS:			NOTES								
TPH-D TPH-MO B		hydrocarbons as d hydrocarbons as n		(a)	relative to		r low water (3	to the nearest 2 feet below r	0.01 foot nean sea leve	el)		
E X TDS	Ethylbenzene Total xylenes Total dissolved	solids		(b)	Groundv low wate		ns expressed	in feet above	mean lower			
ug/l mg/l	Micrograms pe	Micrograms per liter			Blind duplicate.							
ND D&M CEC	Milligrams per liter Not analyzed/applicable Not detected above reported detection limit D&M Laboratories Clayton Environmental Consultants			(d)	Travel bl	lank.	,					

E\0\10-255\255-1-4.WQ2







LEGEND

GROUNDWATER MONITORING WELL

TPH-G BIT EX

CONCENTRATION OF CONSTITUENTS IN MICROGRAMS PER LITER

TPH-D

TPH-MO

TOTAL PETROLEUM TPH-G

HYDROCARBONS AS GASOLINE

BENZENE В

Τ TOLUENE

Ξ **ETHYLBENZENE**

TOTAL XYLENES Χ

TOTAL PETROLEUM TPH-D HYDROCARBONS AS DIESEL

TOTAL PETROLEUM TPH-MO

HYDROCARBONS AS MOTOR OIL

NOT DETECTED ABOVE REPORTED ND DETECTION LIMIT

FIGURE 3

CONCENTRATIONS OF PETROLEUM HYDROCARBONS IN GROUNDWATER

NOVEMBER 13, 1995

PORT OF OAKLAND BERTH 25 707 FERRY STREET OAKLAND, CALIFORNIA

PROJECT NO. 10-255



APPENDIX A

FIELD PROCEDURES FOR GROUNDWATER MONITORING WELL SAMPLING AND WATER SAMPLING FIELD SURVEY FORMS

FIELD PROCEDURES FOR GROUNDWATER MONITORING WELL SAMPLING

Groundwater Level Measurement

Before groundwater sampling, the groundwater level in each well was measured from a marked survey reference point at the top of the well casing. Groundwater in each well was monitored for free-floating product or sheen. The depth to groundwater was measured to an accuracy of 0.01 foot from the top of the PVC well casing using an electronic sounder.

Groundwater Monitoring Well Sampling

To ensure that the groundwater samples were representative of the aquifer, the wells were purged of 3 well casing volumes before sample collection. This purging was accomplished using a clean bailer or pump.

The groundwater samples were collected using a disposable bailer, and then transferred into laboratory-supplied containers. Care was taken to avoid turbulence when transferring the water samples, and volatile analysis vials were filled so that no air bubbles were trapped. The sampling technician wore nitrile gloves at all times during purging and well sampling. The samples were labeled with the well number, site identification, date and time of sample collection, and sampler's initials, and transported in an iced cooler maintained at 4 degrees Centigrade to Clayton Environmental Consultants, a state-certified laboratory, following preservation and chain of custody protocol.

ALISTO

Field Report / Sampling Data Sheet

ENGINEERIN	1G	Ø	Ground	dwater San	npling	Date	= ab	355	Project	No. [C	1-255	-01-004
GROUP						Day:			Statlon i	No.		
1575 TREAT	BOULEVARD,	SUITE 20	01			Wealt	ner: 💋		Address	707	Ferry	St, ODGIGACL
WALNUT CR	EEK CA 9459	6 (510) 2	295-1650	FAX 295-1823	3		SAMPLE	R:	2		0	
Well ID	SAMPLE#	WATER	DEPTH	Well ID	SAMPLE	#	WATER	DEPTH	Well	ID	SAMPLE	WATER DEPTH
MW-1		8-101	1020								<u> </u>	
	} 											
				······································				****				
Well ID	Depth to Water	r Dlam	Cap/Lock	Product Depth		Gal.	Time	Temp *F		E.C.	D.O.	O EPA 601
mw-1	10.15	2"	m_		P		F101	12.3	7.05	1.34		O TPH-G/BTEX
•	Waler Level=		_	•	-	<u> </u>	1952	71.4	7.17	1.30		O TPH Diesel
	-10.18=						105%	70.1	7.19	1,29		O TOG 5520
-	: OSurface Pun	np ODIsp.	Tube OWIn	ch Wisp. Balle	r(s) 1 OSys Po	ort T		 				Time Sampled
Comments:		· · · · · · · · · · · · · · · · · · ·		<u> </u>				<u> </u>				1100
Well ID	Depth to Water	Dlam	Cap/Lock	Product Depth	Thlckness	Gal.	Time	Temp *F	рН	E.C.	D.O.	O EPA 601 O TPH-G/BTEX
Total Don'th N	Valer Level=		Fastar	x#vol. to Purge:	= PurgeVol.			ļ.,				O TPH Diesel
^ .	water reve⊫	X MAHI AOI	. rucioi=	XIIVOI, IO Pulge:	= Fulgevol.	<u> </u>		<u> </u>				O TOG 5520
Division Marks and	l: OSurface Purr	- ODIn	Tuba OM/In	ob ODles Rella	r(s)OSys Po	L				<u> </u>		Time Sampled
Comments:		np ODISp.	TUDO OWIN	ch Obisp. Boile	r(s)Ooys PC	л, 		<u> </u>			-	
	Depth to Water	r Dlam	Cap/Lock	Product Depth	Thickness	Gal.	1 1ime	Temp *F	pl-l	E.C.	D.O.	O EPA 601
1101115	Dopin to train	1	T T T T T T T T T T T T T T T T T T T	110000130011	1110111000	<u> </u>						O TPH-G/BTEX
Total Depth - V	Nater Level=	x Well Vol	. Factor=	x#vol. to Purge:	= PurgeVol.		<u> </u>	· · · · · · · · · · · · · · · · · · ·				O TPH Diesel
												O TOG 5520
Purge Melhod	l: OSurface Pum	np ODIsp.	Tube OWIn	ch ODlsp. Balle	r(s)OSys Pc	ort						Time Sampled
Comments:												
Well ID	Depth to Water	r Dlam	Cap/Lock	Product Depth	Thlckness	Gal.	Tlme	Temp *F	рН	E.C.	D.O.	O EPA 601
												O TPH-G/BTEX
Total Depth - V	Vater Level=	x Well Vol	. Factor=	x#vol. to Purge:	 PurgeVol. 							O TPH Diesel
						<u></u>		<u> </u>				O TOG 5520
	: OSurface Pur	np ODIsp.	Tube OWIn	ch ODIsp. Balle	r(s)OSys Po	ort		<u> </u>				Time Sampled
Comments:						<u></u>		<u> </u>	ļ	<u> </u>	1	
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APPENDIX B

FIELD PROCEDURES FOR CHAIN OF CUSTODY DOCUMENTATION, LABORATORY REPORT, AND CHAIN OF CUSTODY RECORD

FIELD PROCEDURES FOR CHAIN OF CUSTODY DOCUMENTATION

The samples were handled in accordance with the California Department of Health Services guidelines. Samples were labeled in the field and immediately stored in coolers and preserved with blue ice for transport to a state-certified laboratory for analysis.

A chain of custody record accompanied the samples, and included the site and sample identification, date and time of collection, analysis requested, and the name and signature of the sampling technician. When transferring possession of the samples, the transferee signed and dated the chain of custody record.

1252 Quarry Lane P.O. Box 9019 Pleasanton, CA 94566 (510) 426-2600 Fax (510) 426-0106



November 29, 1995

Mr. Brady Nagle ALISTO ENGINEERING GROUP 1575 Treat Blvd., Suite 201 Walnut Creek, CA 94598

> Client Ref.: 10-2SS-01-004 Clayton Project No.: 95112.06

Dear Mr. Nagle:

Attached is our analytical laboratory report for the samples received on November 15, 1995. Following the cover letter is the Quality Control Narrative detailing sample information/problems and a summary of the quality control issues. Also enclosed is a copy of the Chain-of-Custody record acknowledging receipt of these samples.

Please note that any unused portion of the samples will be discarded after December 29, 1995, unless you have requested otherwise.

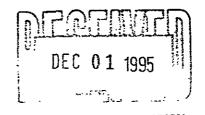
We appreciate the opportunity to assist you. If you have any questions concerning this report, please contact Suzanne Haus, Client Services Supervisor, at (510) 426-2657.

Sincerely,

Harriotte A. Hurley, CIH
Director, Laboratory Services
San Francisco Regional Office

HAH/tjb

Attachments





Page 1a

QUALITY CONTROL NARRATIVE for Alisto Engineering Group Client Reference: 10-2SS-01-004 Clayton Project No. 95112.06

Sample Information/Problems:

There were no problems with sample receipt.

Analytical Problems:

No problems were encountered with the sample analyses.

Quality Control:

The quality control data is summarized in the Quality Assurance Data Package, which follows the analytical report.

- MS/MSD: A matrix spike and matrix spike duplicate were analyzed where applicable, and all results were acceptable.
- LCS/LCSD: A laboratory control spike and duplicate were analyzed where applicable, and all results were acceptable.
- ICV/CCV: Response for all analytes met Clayton acceptance criteria.
- Surrogate Recoveries: All surrogate recoveries were acceptable. The surrogate recoveries, where applicable, are listed on the sample result pages.

of 8 Page 2

Analytical Results for

Alisto Engineering Group

Client Reference: 10-2SS-01-004 Clayton Project No. 95112.06

Sample Identification: MW-1

Lab Number:

9511206-01A

Sample Matrix/Media:

WATER

Preparation Method: Method Reference:

EPA 5030

Date Sampled:

11/13/95 11/15/95 Date Received: 11/27/95 Date Prepared:

Date Analyzed:

11/27/95

FAK Analyst: EPA 8020

Analyte	CAS #	Concentration (ug/L)	Method Detection Limit (ug/L)	
BTEX				
Benzene	71-43-2	ND	0.4	
Ethylbenzene	100-41-4	ND	0.3	
Toluene	108-88-3	ND	0.3	
o-Xylene	95-47-6	ND	0.4	
p,m-Xylenes	11-57-4	ND	0.4	
Surrogates		Recovery (%)	QC Limits (%)	
a,a,a-Trifluorotoluene	98-08-8	89	50 - 150	

Not detected at or above limit of detection ND: Information not available or not applicable



Page 3 of 8

Analytical Results for

Alisto Engineering Group

Client Reference: 10-2SS-01-004 Clayton Project No. 95112.06

Sample Identification: QC-1

Lab Number:

9511206-02A

Sample Matrix/Media: Preparation Method:

WATER

Method Reference:

EPA 5030 EPA 8020 Date Sampled:

11/13/95 11/15/95

Date Received: Date Prepared: Date Analyzed:

11/27/95

11/27/95

Analyst:	FAK
----------	-----

Analyte	CAS #	Concentration (ug/L)	Method Detection Limit (ug/L)	
BTEX				
Benzene	71-43-2	ND	0.4	
Ethylbenzene	100-41-4	ND	0.3	
Toluene	108-88-3	ND	0.3	
o-Xylene	95-47-6	ND	0.4	
p,m-Xylenes	11-57-4	ND	0.4	
<u>Surrogates</u>		Recovery (%)	QC Limits (%)	
a,a,a-Trifluorotoluene	98-08-8	95	50 - 150	

ND: Not detected at or above limit of detection --: Information not available or not applicable

of 8 Page 4

Analytical Results for

Alisto Engineering Group

Client Reference: 10-2SS-01-004 Clayton Project No. 95112.06

Sample Identification: QC-2

Lab Number:

9511206-03A

Sample Matrix/Media:

WATER

Preparation Method: Method Reference:

EPA 5030 EPA 8020 Date Sampled:

11/13/95 Date Received: 11/15/95

Date Prepared:

11/27/95

Date Analyzed:

11/27/95

Analyst: FAK

Method Reference: LPA 6020		midiyst.	1111
Analyte	CAS #	Concentration (ug/L)	Method Detection Limit (ug/L)
BTEX			
Benzene	71-43-2	ND	0.4
Ethylbenzene	100-41-4	ND	0.3
Toluene	108-88-3	ND	0.3
o-Xylene	95-47-6	ND	0.4
p,m-Xylenes	11-57-4	ND	0.4
Surrogates		Recovery (%)	OC Limits (%)
a,a,a-Trifluorotoluene	98-08-8	88	50 - 150

Not detected at or above limit of detection ND: Information not available or not applicable

Page 5 of 8

Analytical Results for

Alisto Engineering Group

Client Reference: 10-2SS-01-004 Clayton Project No. 95112.06

Sample Identification: METHOD BLANK

Lab Number:

9511206-04A

Sample Matrix/Media:

WATER

Preparation Method: Method Reference:

EPA 5030

EPA 8020

Date Sampled:

Date Received:

Date Prepared:

11/27/95 Date Analyzed: 11/27/95

Analyst:

FAK

Analyte	CAS #	Concentration (ug/L)	Method Detection Limit (ug/L)	
BTEX				
Benzene	71-43-2	ND	0.4	
Ethylbenzene	100-41-4	ND	0.3	
Toluene	108-88-3	ND	0.3	
o-Xylene	95-47-6	ND	0.4	
p,m-Xylenes	11 - 57-4	ND	0.4	
Surrogates		Recovery (%)	QC Limits (%)	
a,a,a-Trifluorotoluene	98-08-8	93	50 - 150	

Not detected at or above limit of detection ND:

Information not available or not applicable



Page 6 of 8

Analytical Results for

Alisto Engineering Group

Client Reference: 10-2SS-01-004 Clayton Project No. 95112.06

Sample Identification: See Below

Date Received: 11/15/95

Lab Number:

9511206

Date Extracted: 11/20/95 Date Analyzed: 11/21/95

Sample Matrix/Media:

WATER

Extraction Method:

EPA 3510

Method Reference:

EPA 8015 (Modified)

Lab Number	Sample Identification	Date Sampled	TPH-D (ug/L)	Method Detection Limit (ug/L)
-01	MW-1	11/13/95	110 a	50
-04	METHOD BLANK		ND	50

ND: Not detected at or above limit of detection --: Information not available or not applicable

TPH-D = Extractable petroleum hydrocarbons from C10 to C20 quantitated as diesel.

a Sample does not match typical diesel pattern.



Page 7 of 8

Analytical Results for

Alisto Engineering Group

Client Reference: 10-2SS-01-004 Clayton Project No. 95112.06

Sample Identification: See Below

Date Received: 11/15/95

Lab Number:

9511206

Date Extracted: 11/20/95

Sample Matrix/Media:

WATER

Date Analyzed: 11/21/95

Preparation Method:

EPA 3510

Method Reference:

EPA 8015 (Modified)

Lab Number	Sample Identification	Date Sampled	TPH-O (ug/L)	Method Detection Limit (ug/L)
-01	MW-1	11/13/95	1300	200
-04	METHOD BLANK		ND	200

ND: Not detected at or above limit of detection --: Information not available or not applicable

TPH-0 = Extractable petroleum hydrocarbons from C20 to C42 quantitated as motor oil.

Page 8 of 8

Analytical Results for

Alisto Engineering Group

Client Reference: 10-2SS-01-004 Clayton Project No. 95112.06

Sample Identification: See Below

Date Received: 11/15/95 Date Analyzed: 11/17/95

Lab Number:

9511206

Sample Matrix/Media:

WATER

Method Reference:

EPA 160.1

Lab Number	Sample Identification	Date Total Sampled	Dissolved Solids	Method Detection Limit (mg/L)
-01	MW-1	11/13/95	1200	10
-04	METHOD BLANK		<10	10

ND: Not detected at or above limit of detection Information not available or not applicable --:



Quality Assurance Results Summary

Matrix Spike/Matrix Spike Duplicate Results

for

Clayton Project No. 95112.06

Quality Assurance Results Summary - Matrix Spike/Matrix Spike Duplicate

Clayton Project No. 95112.06

Clayton Lab Number: Ext./Prep. Method: Date: Analyst: 9511206-LCS EPA 3510 11/20/95

FHK

Std. Source: Sample Matrix/Media: E951025-01W

WATER

Analytical Method: EPA 8015
Instrument ID: 02883
Date: 11/20/95
Time: 21:36
Analyst: GUD
Units: UG/L
QC Batch No: 95112084

Analyte	Sample Result	Spike Level	Matrix Spike Result	MS Recovery (%)	Matrix Spike Duplicate Result	MSD Recovery (%)	Average Recovery (% R)	LCL (% R)	UCL (% R)	RPD (%)	UCL (%RPD)
DIESEL	ND	1,000	1,010	101	995	99	100	65	128	1.1	25



Quality Assurance Results Summary - Matrix Spike/Matrix Spike Duplicate for Clayton Project No. 95112.06

Clayton Lab Number: Ext./Prep. Method: Date:

Analyst:

FAK

9511246-06A EPA 5030 11/27/95

V951109-02W WATER

Std. Source: Sample Matrix/Media:

EPA 8015/8020 Analytical Method: 05587 Instrument ID: 11/28/95 Date: 06:22 Time: FAK Analyst: Units: ug/L 951127A1 QC Batch No:

Analyte		Sample Result	Spike Level	Matrix Spike Result	MS Recovery (%)	Matrix Spike Duplicate Result	MSD Recovery (%)	Average Recovery (% R)	LCL (% R)	UCL (% R)	RPD (%)	UCL (%RPD)
BENZENE	(PID)	ND	4.39	4.84	110	4.68	107	108	79	125	3.4	20
ETHYLBENZENE	(PID)	ND	5.56	5.21	94	5.13	92	93	91	123	1.5	20
GASOLINE	(FID)	ND	500	492	98	505	101	100	80	120	2.6	25
TOLUENE	(PID)	ND	24.8	23.7	96	23.2	94	95	84	118	2.1	20
TOTAL XYLENE	(PID)	ND	35.1	31.6	90	31.1	89	89	85	115	1.6	20



Quality Assurance Results Summary - Laboratory Control Samples (LCS)

for

Clayton Project No. 95112.06

Clayton Lab Number: Ext./Prep. Method:

9511249-LCS EPA 5030

11/27/95 Date: Analyst: FAK

Std. Source:

Sample Matrix/Media:

V951109-02W

WATER

Analytical	Method:	EPA	8015/8020
Instrument	ID:		05587
Date:			11/27/95
Time:			11:29
Analyst:			FAK
Units:			$\mathtt{ug/L}$
QC Batch no	:		951127A1

Page 1 of 1

Analyte	Blank Result	Spike Level	LCS Result	LCS Recovery (%)	LCL (% R)	UCL (% R)
Benzene	ND	4.39	4.72	108	79	125
Ethylbenzene	ND	5.56	5.49	99	91	123
Gasoline	· ND	500	527	105	80	120
SURR a,a,a-Trifluorotoluene	ND	100	90.0	90	50	150
Toluene	ND	24.8	24.2	98	84	118
Total Xylenes	ND	35.1	33.4	95	85	115



REQUEST FOR LABORATORY **ANALYTICAL SERVICES**

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E City, State, Zip Churt Creek (4 9759)]8 ≥	Name Som Control Dept. Address Onword (530 works 54)												
[III Tolenh	ione No. (だい))	255 IGSN Telefax N	0. (5)	2/0	G5 18		TOWN CHANGE AND A PARTY OF THE												
Date Results	s Req.: Rush Cha	arges Authorized? Phone	/Fax H	lesults	Sample		ers	ANALYSIS REQUESTED (Enter an 'X' in the box below to indicate request; Enter a 'P' if Preservative added.										ded. *)	
						f applicable)	Containers			7.	Zi								
Special Instr	ructions: (method,	limit of detection, etc.)			☐ Drinking Water		g												
		M= He				Collected in the State of New York													
* Explanatio	n of Preservative:			į	State	of New York	ser af	١,	/ 3	100	15/	/ /	/ /	/ /	/ /	/ /	/ /	5001	
	CLIENT SAMPLE II	DENTIFICATION		ATE PLED	MATRIX/ MEDIA	AIR VOLUME (specify units)		/3	5//3		7							FOR L USE O	
			1	P-2_	H20	3706 A	LI	护人	10,×	$\sqrt{\chi}$								01 A-1	<i>)</i>
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CUAIN							 			00		7				***	Date/	lime	~ 17
CHAIN	100000000000000000000000000000000000000					Date/Time GT //: Y			Received by: Role 13 Oscal Date/Time 1/-15-95 11:50										
CUSTODY	Relinquished by: 1300 Date/Time 3:40															5.742V			
Method of Shipment:					Sample Condition Upon Receipt: Acceptable														
Authorized by: Date																			
7001011200	(Client Signature Must Accompany Request)						1												
Please retu	Please return completed form and samples to one of the Clayton Environmental Consultants, In						, Inc. labs listed below: DISTRIBUTION:												

22345 Roethel Drive

Novi, MI 48375 160 Fieldcrest Ave. Edison, NJ 08837 (810) 344-1770 (908) 225-6040

Raritan Center

400 Chastain Center Blvd., N.W. Suite 490

Kennesaw, GA 30144 (404) 499-7500

1252 Quarry Lane Pleasanton, CA 94566 (510) 426-2657

- Clayton Laboratory WHITE YELLOW - Clayton Accounting - Client Retains PINK

2/92