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



April 9, 1997

Ms. Juliet Shin
Department of Environmental Health
Alameda County Health Agency
1131 Harbor Bay Parkway, Second Floor
Alameda, California 94502

97 APR 10 PH 4: 09

Clayton Project No. 70-97203.00.500

Subject: Report on Grab Groundwater Sampling at Coliseum Way and 50th Avenue

in Oakland, California

Dear Ms. Shin:

Please find enclosed the above-referenced report which describes our field activities and provides the analytical data for the two grab groundwater samples collected off-site and downgradient from the intersection of 50th Avenue and Coliseum Way. Please call me at (510)426-2686 with any comments or questions.

Sincerely,

Dwight R. Hoenig

Vice President/Major Project Development Environmental Management and Remediation

San Francisco Regional Office

DRH/

cc: Sumadhu Arigala, RWQCB

Tim Colvig, Lempres and Wulfsberg

Patrick Sullivan, Forensic Management Associates

Rick Day, Clayton Environmental

Mike Zimmerman, Clayton Environmental

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



Report on Grab Groundwater Sampling
Coliseum Way and 50th Avenue
Oakland, California
for
Alameda County Department Of Environmental
Health
Oakland, California

Clayton Project No. 97203.00

April 8, 1997





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1.0 INTRODUCTION

This report provides a summary of grab groundwater sampling conducted by Clayton Environmental Consultants, Inc. on October 11, 1996 at the intersection of Coliseum Way and 50th Avenue in Oakland, California. The site location is shown on Figure 1.

The purpose of collecting the grab groundwater samples was to determine metal concentrations and pH levels in groundwater on the east and west sides of the storm sewer, and south of Coliseum Way. These sample locations were selected specifically to evaluate the extent of heavy metal migration in groundwater in the area located hydraulically downgradient of the heavy metal plume beneath the 5050 Coliseum Way property.

2.0 SCOPE OF WORK

The specific tasks Clayton completed for this project included:

- Obtaining drilling permits;
- Preparing a site-specific health and safety plan;
- Performing a utility clearance survey; and
- Advancing two soil borings and collecting grab groundwater samples.

2.1 PRE-FIELD ACTIVITIES

Prior to performing field activities Clayton obtained a drilling permit from Alameda County Flood Control and Water Management Agency - Zone 7, and an encroachment permit from the City of Oakland. Clayton also contacted Underground Service Alert 48 hours prior to the drilling date. A site-specific health and safety plan was written for these activities.

2.2 FIELD ACTIVITIES

Clayton began field work on October 11, 1996. Clayton retained a professional utility locator to identify underground utilities in the vicinity of the borehole locations. Clayton advanced two boreholes (CBH-1 and CBH-2) and obtained grab groundwater samples from each boring for laboratory analysis. The grab groundwater samples were analyzed for CAM-17 metals by Chromalab, Inc. and for pH by Clayton's analytical laboratory. The two boring locations are shown on Figure 2.



The borings were drilled using a combination of hand excavation through the upper fill material and Geoprobe drilling in the zone of interest. The actual field procedures are described in Appendix A. Observations of samples and field conditions were recorded on the boring logs included as Appendix B to this report.

3.0 RESULTS OF THE INVESTIGATION

The analytical results of the sample analysis are summarized in the following table. Laboratory analytical sheets and chain-of-custody are included as Appendix C.

	of Metal and pH Analytica lits reported in milligrams per liter	
Parameter	CBH-1	СВН-2
Antimony	0.012	ND
Arsenic	ND	ND -
Barium	0.15	0.039
Beryllium	ND	ND
Cadmium	ND	ND
Chromium	ND	ND
Cobalt	0.034	0.0073 .
Copper	Basin Flan	ND ,
Lead	ND	ND
Molybdenum	0.022	0.063
Nickel	0.067-67pph	م م ح ح ح ح ح ح ح ح
Selenium	0.032	0.068 = 68 pp
Silver	ND	ND
Thallium	0.0092 =	ND
Vanadium	ND	ND
Zinc	ND	0.034 × 34pp
Mercury	ND	ND
pH	6.9	7.3

= Exceeds Nat'l Toxics Rule volves for saltwater

4.0 CONCLUSIONS

This limited offsite groundwater investigation provides two data points in the area which is downgradient of the plume of heavy metal/low pH groundwater known to exist beneath the 5050 Coliseum Way property. The analytical results are significant for two specific reasons:

- The pH results indicate that the low pH groundwater condition known to exist at 5050 Coliseum Way is not present at these downgradient offsite locations, a distance of 60 to 100 feet from the northwest corner of the 5050 Coliseum Way Property; and
- The dissolved metal concentrations in these samples are below all known <u>Federal</u> and <u>State</u> water quality criteria for the protection of human health and the environment.

This report prepared by:

Matthew W. Hanko Project Geologist

This report reviewed by:

Dwight R. Hoenig

Vice President, Major Project Development

San Francisco Regional Office

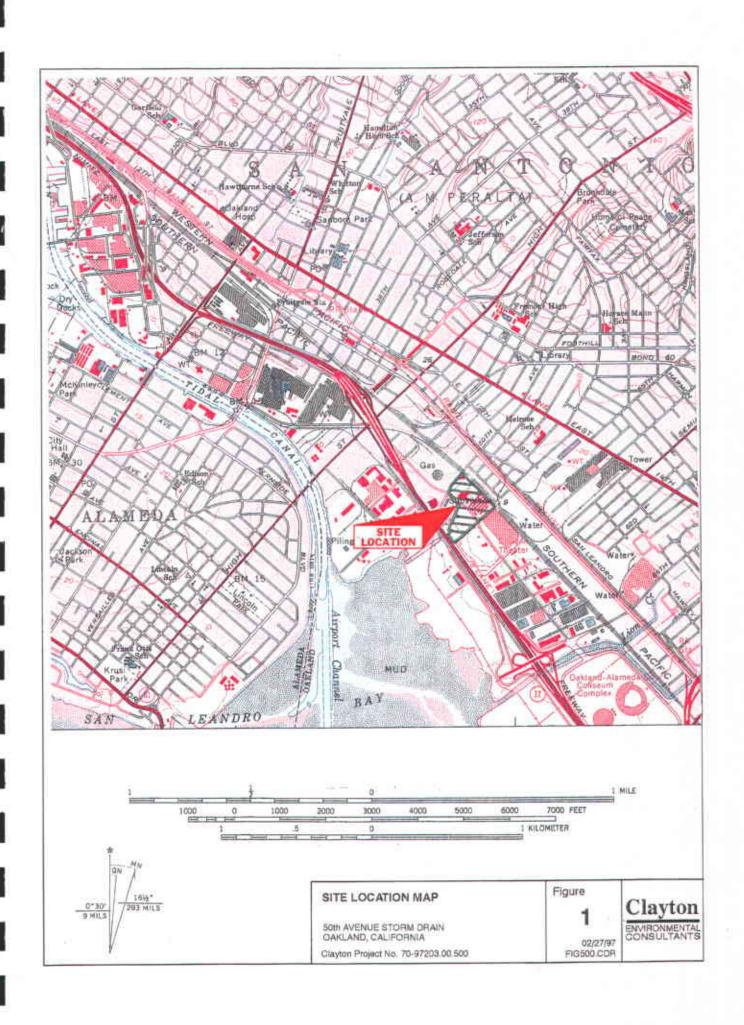
This report reviewed by:

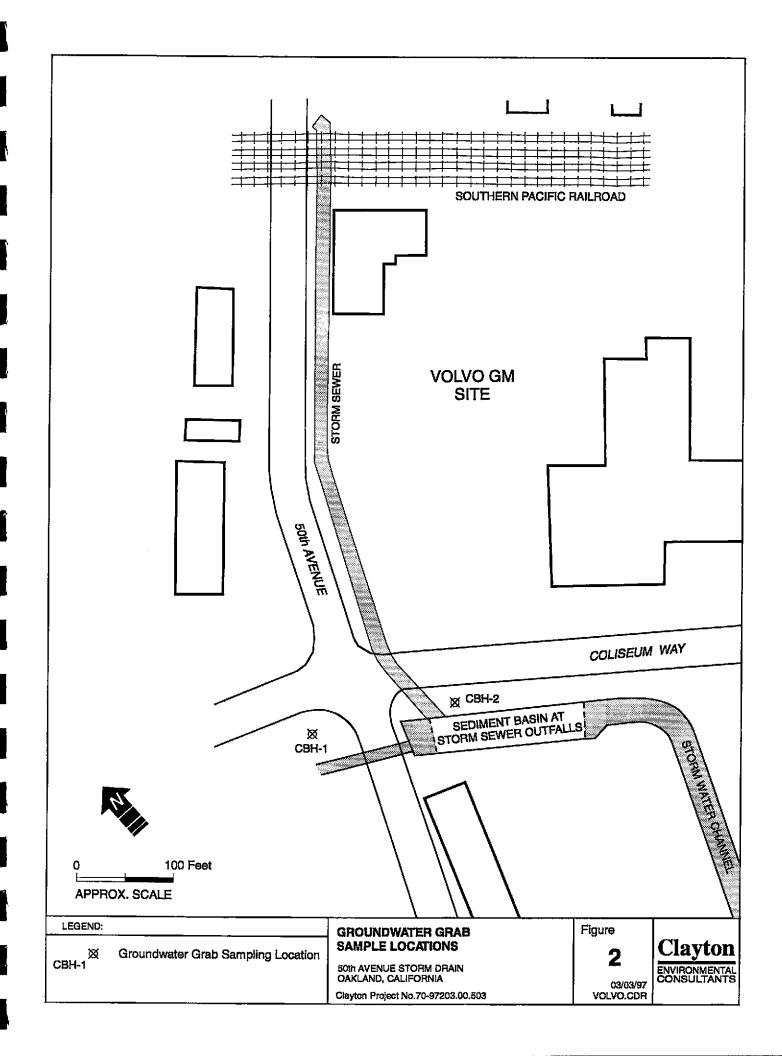
Richard W. Day, CEG, CHG

Supervisor, Geosciences/Remediation

Environmental Management and Remediation

San Francisco Regional Office







APPENDIX A

GEOPROBE SAMPLING PROTOCOLS



CLAYTON ENVIRONMENTAL CONSULTANTS, INC. GEOPROBE SAMPLING FIELD PROTOCOL

1.0 GEOPROBE SAMPLING PROCEDURES

The borings were drilled using a combination of hand excavation through the upper fill material (2.5 feet) and Geoprobe drilling in the zone of interest. Prior to first use, all sampling equipment was washed with a brush and non-phosphate detergent and rinsed with distilled or de-ionized water. Sampling equipment was also decontaminated between borings

Soil cuttings or samples were examined by a geologist for soil type and visible contamination and classified according to the Uniform Soil Classification System. These observations were recorded on the boring logs.

Groundwater grab samples were obtained by installing a precleaned 3/4"-diameter casing with 0.010" factory slot in the Geoprobe boring and bailing samples from the casing using a precleaned Teflon or stainless steel bailer.

2.0 SAMPLE CONTROL PROCEDURES

Each sample container was labeled with the following information at the time of collection:

- Facility name and location
- Sample number indicating location and depth
- Analytical parameters
- Date of sample collection
- Name of sampler

The sample containers were then labeled and those to be analyzed offsite were packaged for shipment. Samples were placed in coolers for storage and shipment and maintained at about 4° centigrade. The samples were delivered to a State of California-certified laboratory. The chain-of-custody procedures described below were followed.

3.0 CHAIN-OF-CUSTODY

Samples sent offsite for analyses followed proper chain-of-custody procedures to ensure the legal defensibility of each sample. To establish the documentation necessary to trace sample possession from the time of collection, a chain-of-custody record must be completely filled out and, at a minimum, included the following for each sample:

- Sample number
- Date of sampling
- Place and address of collection •
- Inclusive dates of possession
- Signature of collector
- Persons involved in the chain of possession
 - Waste type

APPENDIX B

BORING LOGS

•	To the Moderno	annonen on a last on	20000 0000	o SoSinani, and			(CNS) Case
]	EXPLO		G OI ORY	BORD	NG	Project No.: 69998.00 pate: Client: Location: Leurges Logged By: PLS PLS RS BORING NO. CBH-1 Sheet of
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	Drilling Rate (ft/min)	441	DHAHH	P L	Group Symbol	Litho- grabie	Date /6/() DESCRIPTION
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							NEW

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	Ground E	levation:	: 	33 3 33333	×1-2200000000000000000000000000000000000	Datum:	Casing Installation Data: 76-6-6-8-4 3/4" SCH YO PC
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		Page 6	D		Sell		Time 1530
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APPENDIX C

LABORATORY ANALYTICAL REPORT AND CHAIN-OF-CUSTODY DOCUMENTATION

CHROMALAB, INC.

Environmental Services (SDB)

October 12, 1996

Submission #: 9610153

CLAYTON ENVIRONMENTAL CONSULT.

Atten: Dwight Hoenig

Project: Not provided

Received: October 11, 1996

Project#: 69998.00

re: One sample for Soluble Miscellaneous Metals with Mercury analysis.

Method: EPA 3005A/6010A/7470A

Client Sample ID: CBH-1

Spl#: 103449 Sampled: October 11, 1996 Matrix: WATER Run#: 3568

Extracted: October 11, 1996
Analyzed: October 11, 1996

BLANK DILUTION REPORTING BLANK RESULT LIMIT RESULT SPIKE **FACTOR** (mg/L)(mg/L)<u>ANALYTE</u> (mg/L)<u>(%)</u> 108 108 ANTIMONY 0.012 0.0050 N.D. 1 N.D. 0.0050 N.D. ARSENIC N.D. 107 1 0.15 0.0050 BARIUM 1 106 BERYLLIUM N.D. 0.0050 N.D. 1 N.D. 106 0.0020 CADMIUM N.D. 0.0050 N.D. 108 1 CHROMIUM N.D. 0.034 COBALT 0.0050 N.D. 107 0.0050 COPPER N.D. 106 0.010 ī LEAD N.D. 0.0050 N.D. 108 į MOLYBDEMUM 0.022 0.0050 N.D. 107 N.D. 108 111 0.067 0.0050 NICKEL 0.032 108 0.0050 N.D. SELENIUM SILVER N.D. 0.0050 N.D. 106 1 109 THALLIUM 0.0092 0.0050 N.D. 105 1. 0.0050 N.D. VANADIUM N.D. N.D. 0.010 N.D. 107 ZINC MERCURY N.D. 0.00050 N.D. 91.5

Mercury extracted on October 11, 1996 and analyzed on October 11, 1996.

Shafi Barek

Chemist

John S. Labash

Inorganics Supervisor

CHROMALAB, INC.

Environmental Services (SDB)

October 12, 1996

Submission #: 9610153

CLAYTON ENVIRONMENTAL CONSULT.

Atten: Dwight Hoenig

Project: Not provided

Received: October 11, 1996

Project#: 69998.00

re: One sample for Soluble Miscellaneous Metals with Mercury analysis.

Method: EPA 3005A/6010A/7470A

Client Sample ID: CBH-2

Spl#: 103450 Sampled: October 11, 1996 Matrix: WATER Run#: 3568

Extracted: October 11, 1996
Analyzed: October 11, 1996

		RESULT	REPORTING LIMIT	BLANK RESULT	BLANK I SPIKE	OILUTION FACTOR
ANALYTE		(mg/L)	(mg/L)	(mg/L)	(%)	
ANTIMONY		N.D.	0.0050	N.D.	108	1.
ARSENIC		N.D.	0.0050	N.D.	108	1
BARIUM		0.039	0.0050	N.D.	107	1
BERYLLIUM		N.D.	0.0050	N.D.	106	1
CADMIUM	•	N.D.	0.0020	N.D.	106	1
CHROMIUM		N.D.	0.0050	N.D.	108	1
COBALT		0.0073	0.0050	N.D.	107	1
COPPER		N.D.	0.0050	N.D.	106	1
LEAD		N.D.	0.0050	N.D.	108	1
MOLYBDEMUM		0.063	0.0050	N.D.	107	1
NICKEL		0.022	0.0050	N.D.	108	1.
SELENIUM		0.068	0.0050	N.D.	108	1
SILVER		N.D.	0.0050	N.D.	106	1
THALLIUM	1	N.D.	0.0050	N.D.	109	1
VANADIUM	·	N.D.	0.0050	N.D.	105	1.
ZINC		0.034	0.010	N.D.	107	1
MERCURY	, <u>, , , , , , , , , , , , , , , , , , </u>	N.D.	0.00050	N.D.	91.5	1

Mercury extracted on October 11, 1996 and analyzed on October 11, 1996.

Shafi Barekzai

Chemist

John S. Labash

Inorganics Supervisor

CHROMALAB, INC. SAMPLE RECEIPT CHECKLIST

Client Name CLAYTON	Date/Time Received 10/11/96 1760
Project <u>& 9998.08</u>	Received by Coula
Reference/Subm # 30/89/96/0153	Carrier name
Checklist Completed 10/14/9	Logged in by 10/11/9 (
by: // Date	Matrix H20 Initials / Date
Shipping container in good condition?	NAYesNo
Custody seals present on shipping contain	
Custody seals on sample bottles?	
Chain of custody present?	Yes No
Chain of custody signed when relinquished	and received? Yes No
Chain of custody agrees with sample label	s? YesNo
Samples in proper container/bottle?	Yes No
Samples intact?	YesNc
Sufficient sample volume for indicated te	st? YesNo
VOA vials have zero headspace?	NAYesNo
Trip Blank received?	NAYes No
All samples received within holding time?	YesNo
Container temperature? 18.5°C	
pH upon receiptpH adjusted	Check performed by:NA
Any \underline{NO} response must be detailed in the applicable, they should be marked NA.	comments section below. If items are not
Client contacted?	Date contacted?
Person contacted?	·
Regarding?	
Comments:	
Corrective Action:	

SMPLRECD.CX

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

October 15, 1996

Mr. Dwight Hoenig CLAYTON ENVIRONMENTAL CONS. 1252 Quarry Lane Pleasanton, CA 94566

> Client Ref.: 69998.00 Clayton Project No.: 96101.80

Dear Mr. Hoenig:

Attached is our analytical laboratory report for the samples received on October 11, 1996. 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 November 14, 1996, 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 2 of 2

Analytical Results

for

Clayton Environmental Consultants, Inc.

Client Reference: 69998.00 Clayton Project No. 96101.80

Sample Identification: See Below

Lab Number:

9610180

Sample Matrix/Media:

WATER

Method Reference:

EPA 150.1

Date Received: 10/11/96

Date Analyzed: 10/11/96

Lab Number	Sample Identification	Date Sampled	pH (S.U.)	Method Detection Limit (S.U.)
-01	CBH-1	10/11/96	6.9	
-02	CBH-2	10/11/96	7.3	

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

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Please ratum completed form and samples to one of the Clayton Environmental Consultants, Inc. labs listed below:

Detroit Regional Lab 22345 Floethel Driva Novi, MI 48375 (800) 808-5887 (810) 344-1770 FAX (810) 344-2655 Atlante Regional Lab 400 Chaslain Center Blvd., N.W., Suite 490 Kennesaw, GA 30144 (800) 252-9919 (770) 499-7500 FAX (770) 423-4890 8an Francisco Regional Lab 1252 Cuarry Lane Pleasanton, CA 94586 (800) 294-1755 (510) 426-2657 FAX (510) 426-0108 Seattle Regional Lab 4636 E. Marginal Way S., Suite 215 Seattle, WA 98134 (800) 568-7755 (206) 763-7364 FAX (206) 763-4189 DISTRIBUTION:

Blue = Claylon Laboratory

ENVIRONMENTAL CONSULTANTS

Company

Mailing Address City, State, Zip

Telephone No.

(method, limit of detection, etc.)

Explanation of Preservative:

CLIENT SAMPLE IDENTIFICATION

DWIGHT HOENG

Name DWIGHT

Clayton 155/103447 - 103450 REQUEST FOR LABORATORY **ANALYTICAL SERVICES**

HOLN16

12 5 BUMBING

5104760-7600

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@(510)

CLAMTON

Special instructions and/or specific regulatory requirements:

PULAS

Client Job No.

TFAX No. (510) SKI-880

TIME

SAMPLED

DATE

SAMPLED

MATRIX/

MEDIA

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ORY S		A	Pate Results Requested: 10/12/96 Rush Charges Authorized? Yes No Phone or Fax Results							Page of For Clayton Use Only Clayton Lab Project No.					
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Please return completed form and samples to one of the Clayton Environmental Consultants, inc. labs listed below:

Detroit Regional Lab 22345 Roethel Drive Novi, MI 48375 (800) 806-5887 (810) 344-1770 FAX (810) 344-2655

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Authorized by:

Atlanta Regional Lab 400 Chastain Center Blvd., N.W., Suite 490 Kennesaw, GA 30144

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(800) 252-9919 (770) 499-7500 FAX (770) 423-4990

(Client Signature MUST Accompany Request)

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San Francisco Regional Lab 1252 Quarry Lane

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