

August 30, 1013

LIMITED PHASE II SUBSURFACE INVESTIGATION

Property Identification: 1502 Lincoln Avenue Calistoga, California 94515

AEI Project No. 321593

Prepared for:

Indian Springs 1712 Lincoln Avenue Calistoga, California 94515

Prepared by:

AEI Consultants 2500 Camino Diablo Walnut Creek, California 94597 (925) 746-6000 San Francisco HQ

Atlanta

Chicago

Costa Mesa

Dallas

Denver

Los Angeles

Miami

New York

Phoenix

Portland

San Jose

National Presence Regional Focus Local Solutions

TABLE OF CONTENTS

1.0	SITE DESCRIPTION	1
2.0	BACKGROUND AND PURPOSE	2
3.0	INVESTIGATION EFFORTS	2
3.1 3.2	Health and Safety Plan	2
3.3	Drilling and Soil Sample Collection	2
3.4 3.5	Boring Destruction	3 3
3.6 3.7	Laboratory Analyses Investigation Derived Wastes	3 3
4.0	FINDINGS	3
4.1 4.2 4.3	Geology and Hydrogeology Soil Sample Analytical Results Groundwater Sample Analytical Results	4 4 4
5.0	SUMMARY AND CONCLUSIONS	4
6.0	REPORT LIMITATIONS AND RELIANCE	5

FIGURES

Figure 1 Figure 2	Site Location Map Site Map
Table 1 Table 2	TABLES Soil Sample Data Summary Groundwater Sample Data Summary
Appendix A	APPENDICES Soil Boring Permits
A management in D	Davis a Lawa

Appendix BBoring LogsAppendix CLaboratory Analytical Reports



2500 Camino Diablo, Walnut Creek, CA 94597

Environmental & Engineering Services

Tel: 925.746.6000 Fax: 925.746.6099

August 30, 2013

Mr. Daniel Merchant 1712 Lincoln Avenue Calistoga, California 94515

Subject: Limited Phase II Subsurface Investigation 1502 Lincoln Avenue Calistoga, California 94515 AEI Project No. 321593

AEI Consultants (AEI) is pleased to provide this report which describes the activities and results of the Limited Phase II Subsurface Investigation (Phase II) performed at the above referenced subject property (Figures 1 and 2). This investigation was completed in general accordance with the authorized scope of services outlined in our authorized proposal number 34480.

1.0 SITE DESCRIPTION

The subject property, which consists of a multi-building mixed-use retail, office, and storage facility, is located east of Lincoln Avenue in a mixed commercial and residential area of Calistoga, California. The property totals approximately 44 acres and is improved with seven single-story buildings constructed slab-on-grade with no evidence of basements or other sub-grade areas. The subject property is currently occupied by the Indian Springs Resort offices, a coin operated Laundromat, art studios/showrooms, and storage spaces for the Indian Springs Resort. On-site operations include retail (art) sales, storage uses, a laundry facility, and general office activities. The property is also improved with a small vacant shed structure (former radio control room for former on-site landing strip), asphalt-paved walkway and parking areas, and associated landscaping in the western portion of the site. The remainder (and majority) of the site consists of undeveloped land that was historically used as an airstrip.

One of the seven buildings on the property was reportedly occupied by a drycleaners during the 1950s and 1960s. This building and the area around it is the focus of the current investigation.

A release case for underground storage tanks immediately adjacent to the investigation site was given closure by the Napa County Department of Environmental Management (NCDEM) issued a Case Closed status for the site on August 30, 2007.

Based on a review of the United States Geological Survey (USGS) Geologic Map and Database of Eastern Sonoma County and Western Napa Counties (Scientific Investigations map 2956, R.W Graymer, et al, 2007), the area surrounding the subject property is underlain by alluvial deposits of Holocene-era sand, silt, and gravel characteristic of fan, valley fill, terrace, or basin

environments. Based upon groundwater monitoring data from the subject property site, the direction of groundwater flow beneath the subject property is to the south.

2.0 BACKGROUND AND PURPOSE

A Phase I Environmental Site Assessment (ESA) was performed by AEI May, 2013 (AEI Project Number 317822). The ESA identified the western most hangar building as a former drycleaners during the 1950s and 1960s. This area is the focus of the current investigation.

A release case for underground storage tanks immediately adjacent to the investigation site was given closure by the Napa County Department of Environmental Management (NCDEM) on August 30, 2007.

AEI was retained to perform a limited subsurface investigation, including the collection of soil and groundwater and samples, to determine if historical dry cleaning operations had adversely impacted the property.

3.0 INVESTIGATION EFFORTS

3.1 Health and Safety Plan

A site-specific health and safety plan was prepared, reviewed by onsite personnel, and kept onsite for the duration of the fieldwork.

3.2 Permitting and Utility Clearance

Drilling permits for the proposed investigation were obtained from the NCDEM (Permit # E13-00444 - E13-00446). Copies of the boring logs are attached as Appendix A. Underground Service Alert North (USAN) was notified to allow public utilities in the work area to mark their underground lines. On July 26, 2013, the locations of the soil borings were cleared for underground utilities and other obstructions by Subdynamic Locators of San Jose, California. This work was performed under the oversight of a California-licensed professional geologist.

3.3 Drilling and Soil Sample Collection

On August 2, 2013 four (4) soil borings (SB-1 through SB-4) were advanced at the subject Site (Figure 2) by Environmental Control Associates (ECA) of Aptos, California using a Geoprobe[®] 5410 truck-mounted direct-push drilling rig. Prior to mechanical drilling, each soil boring was hand cleared to a depth of 5-feet below the ground surface (bgs) with a 2.25-inch diameter bucket auger. The borings were then advanced using 2.25-inch outer diameter (OD) by a 4 feet long Geoprobe Macro-Core[®] sampler.

Once the target depth was reached, the sampler was retrieved, the sample liner was removed, and transferred to the onsite geologist. The soil borings were logged in general accordance with the Unified Soil Classification System. A photo ionization detector (PID) was used to screen soil samples in the field and the PID readings for each sample were included on the boring logs



(Appendix B). At least one soil sample was selected from each sleeve and retained for possible chemical analysis. The samples were then sealed labeled and placed in an iced cooler, pending same day transportation to the analytical laboratory.

Down-hole equipment was decontaminated using a triple rinse system containing detergent between collection of each sample.

3.4 Groundwater Sample Collection

Upon encountering groundwater, clean slotted ³/₄-inch OD poly vinyl chloride (PVC) casing was placed in the soil borings. Following an equilibrium period of 30 minutes the water samples were collected from the borings using a peristaltic pump.

3.5 Boring Destruction

Following sample collection and removal of tooling, the borings were backfilled with neat cement grout using a tremie pipe and completed to the surface with concrete or soil to match the surrounding conditions.

3.6 Laboratory Analyses

The samples were transferred under appropriate chain-of-custody documentation by the sampler to McCampbell Analytical, Inc. (MAI) of Pittsburg, California. Laboratory analytical documentation is provided in Appendix B.

Laboratory analysis of four soil samples:

• Halogenated Volatile Organic Compounds (HVOCs) by EPA Method 8260B

Laboratory analysis of four groundwater sample:

• HVOCs by EPA Method 8260B

3.7 Investigation Derived Wastes

Investigation derived waste was left onsite in two sealed and labeled 5-gallon plastic buckets pending characterization and disposal at an appropriate facility.

4.0 FINDINGS

For the purpose of providing context to the data obtained during this investigation, the results of this investigation were compared to the May 2013 Environmental Screening Levels (ESLs) from the San Francisco Bay Regional Water Quality Control Board. Under most circumstances, the presence of a chemical in soil, soil gas or groundwater at concentrations below the corresponding ESL can generally be assumed to not pose a significant threat to human health and the environment.



4.1 Geology and Hydrogeology

Sediment encountered in each of the borings generally consisted of silt and clay, with sand to sandy gravel observed a depth of 10 to 11 feet below the ground surface (bgs). Detailed descriptions are found on the boring logs in Appendix B.

Groundwater was encountered at depth ranging from 10- to 12-feet bgs. The site is located approximately 1,100 feet southwest of the Indian Springs geothermal well.

4.2 Soil Sample Analytical Results

The following information is a summary of the soil sample analytical test results (Appendix C). This information has also been included in Table 1.

- Cis-1,2-dochloroethene (cis-1,2-DCE) was reported in sample SB-2-7.5 at a concentration of 0.0087 mg/kg, which does not exceed the shallow soil ESL of 0.19 milligrams per kilogram (mg/kg) (residential land use where the groundwater has potential for use as drinking water).
- All other HVOCs in the soil sample from SB-2 were reported below their standard laboratory reporting limits.
- All HVOCs were below their standard laboratory reporting limits in all soil samples from soil borings SB-1, SB-3, and SB-4.

4.3 Groundwater Sample Analytical Results

The following information is a summary of the grab groundwater sample analytical test results (Appendix C). This information has also been included in Table 2.

- Tetrachloroethene (PCE) was reported in the groundwater sample from soil boring SB-2 at a concentration of 6.9 μ g/L, which exceeds the drinking water ESL of 5.0 μ g/L. All other HVOCs were below the standard laboratory reporting limits.
- The PCE reported in the SB-2 grab groundwater sample is below the groundwater ESL for non-drinking water of 63 μg/L.
- All HVOCs were below the standard laboratory reporting limits in grab groundwater samples from soil borings SB-1, SB-3, or SB-4.

5.0 SUMMARY AND CONCLUSIONS

AEI has completed a Limited Phase II at the subject property. The purpose of the Limited Phase II at the subject property was to evaluate current soil and groundwater conditions related to the historic use of PCE in a former dry cleaning at the Site. Four (4) soil borings (SB-1 through SB-4) were advanced at the subject property for collection of soil, soil gas and groundwater samples.

The results of this investigation were compared to the San Francisco Bay RWQCB ESLs for shallow soil and groundwater. The results of this comparison are summarized below:



- The soil sample from SB-2 contained cis-1,1-DCE at a concentration below the ESL. All other HVOCs in the soil sample from SB-2 were reported below their method detection limits.
- The grab groundwater from SB-2 contained PCE at a concentration of 6.9 μ g/L which exceeds the ESL for a drinking water resource (5.0 μ g/L), but is below the ESL for a non-drinking water resource (63 μ g/L).

The results of the Phase II ESA indicate that impacts consistent with a release from a dry cleaning facility are present at the site. The impact appears limited to the area of SB-2. The concentrations of HVOCs reported in the soil and groundwater to not appear to represent a significant risk to human health and the environment. As a result, no additional investigative activities appear to be warranted at this time.

As a condition of issuance of the drilling permits, NCDEM requires notification within 48 hours of the finding of any impacted soil or groundwater during completion of the investigation. Based on the results of analyses of the soil and water samples verbal notification was made. The NCDEM has requested that a complete copy of the final report be submitted to the NCDEM.

6.0 **REPORT LIMITATIONS AND RELIANCE**

This report presents a summary of work completed by AEI Consultants. The completed work includes observations and descriptions of site conditions encountered. Where appropriate, it includes analytical results for samples taken during the course of the work. The number and location of samples are chosen to provide the requested information, subject to scope of work for which AEI was retained and limitations inherent in this type of work, but it cannot be assumed that they are representative of areas not sampled. This report should not be regarded as a guarantee that no further contamination beyond that which could have been detected within the scope of this investigation is present beneath the subject property. Undocumented, unauthorized releases of hazardous material, the remains of which are not readily identifiable by visual inspection and are of different chemical constituents, are difficult and often impossible to detect within the scope of a chemical specific investigation.

Any conclusions and/or recommendations are based on these analyses and observations, and the governing regulations. Conclusions beyond those stated and reported herein should not be inferred from this document. These services were performed in accordance with generally accepted practices, in the environmental engineering and construction field, which existed at the time and location of the work. No other warranty, either expressed or implied, has been made.

This investigation was prepared for the sole use and benefit of Indian Springs Resort. All reports, both verbal and written, whether in draft or final, are for the benefit of Indian Springs. This report has no other purpose and may not be relied upon by any other person or entity without the written consent of AEI. Either verbally or in writing, third parties may come into possession of this report or all or part of the information generated as a result of this work. In the absence of a written agreement with AEI granting such rights, no third parties shall have rights of recourse or recovery whatsoever under any course of action against AEI, its officers,



employees, vendors, successors or assigns. Reliance is provided in accordance with AEI's Proposal and Standard Terms & Conditions executed by Mr. Daniel Merchant of Indian Springs Resort on July 7, 2013. The limitation of liability defined in the Terms and Conditions is the aggregate limit of AEI's liability to the client and all relying parties.

If there are any questions regarding our investigation, please do not hesitate to contact AEI at (925) 746-6000.

Sincerely, AEI Consultants

David Provance, PG Senior Hydrogeologist

Robert & Flory







FIGURES





FIGURE 1



Source: USGS (2003)

Project Number: 321593



TABLES



TABLE 1: SOIL ANALYTICAL DATA SUMMARY

1502 Lincoln Street, Calistoga, California

Location ID	Date Sampled	Depth	PCE	TCE	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Other HVOCs
		feet (bgs)			n	ng/kg		
SB-1-7.5	8/02/2013	7.5	<0.005	<0.005	<0.005	<0.005	<0.005	<mrl< td=""></mrl<>
SB-2-7.5	8/02/2013	7.5	0.0087	< 0.005	< 0.005	< 0.005	<0.005	<mrl< td=""></mrl<>
SB-3-7.5	8/02/2013	7.5	<0.005	< 0.005	<0.005	< 0.005	<0.005	<mrl< td=""></mrl<>
SB-4.7.5	8/02/2013	7.5	<0.005	< 0.005	< 0.005	< 0.005	<0.005	<mrl< td=""></mrl<>
ESL Table B-2 (NDW C/I)		2.9	8.3	4.3	0.18	3.9	varies
ESL Table B-1 (I	NDW res)		2.6	8.3	4.3	0.18	3.9	varies
ESL Table A-2 (I	DW C/I)		0.7	0.46	1.0	0.19	0.67	varies
ESL TableA-1 (D	W Res)		0.55	0.46	1.0	0.19	0.67	varies
Vapor Intrusion			Use soil gas	Use soil gas	Use soil gas	Use soil gas	Use soil gas	Use soil gas
Notes								
PCE = tetrachlor	roethene				<mrl =="" less="" td="" tl<=""><td>han the method re</td><td>porting limit</td><td></td></mrl>	han the method re	porting limit	
TCE = trichloroe	ethene				ESL = Enviror	mental Screening	Level	
1, 1-DCE = 1, 1-C	lichloroethene				Res = Residen	tial land use		
cis-1,2-DCE = ci	s-1,2-dichloroethe	ne			C/I = Commer	cial/Industrial land	use	
Trans-1,2-DCE =	= trans-1,2-dichlor	oethene			DW = Drinking	water		
mg/kg = milligra	ams per kilogram				NDW = Non D	rinking Water		
Feet (bgs) = fee	et below the groui	nd surface			BOLD Value	= Value reported a	bove standard re	porting limit
ESL Table B-2 =	San Francisco Ba	y Regional Wate	r Quality Contro	Board (RWQCB)	Environmental S	creening Levels (E	SL),	
FCI Table D 1	Commercial/Indu	Istrial Land Use,	Non-drinking w	ater, Table B-2, N	/Iay 1013	ana amimm Laural/ECI	`	
EST TADIE B-1 =	San Francisco Ba	y Regional Wate	r Quality Contro	D 1 May 1012	Environmental S	creening Lever(ESL	_),	
ESL Table A-2 =	San Francisco Ba Commercial/Indu	y Regional Wate strial Land Use,	r Quality Contro drinking water,	B-1, May 1013 I Board (RWQCB) Table A-2 May 1	Environmental S 013	creening Levels (E	SL),	
ESL Table A-1 =	San Francisco Ba	y Regional Wate	r Quality Contro	l Board (RWQCB)	Environmental S	creening Level (ES	5L),	
	Residential Land	Use, drinking w	ater, Table A-1	May 1013				

TABLE 2: GROUNDWATER ANALYTICAL DATA SUMMARY

Location ID	Date Sampled	PCE	TCE	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Other HVOCs
				μζ	g/L		
SB-1	8/2/2013	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	<mdl< td=""></mdl<>
SB-2	8/2/2013	ND<0.5	ND<0.5	ND<0.5	6.9	ND<0.5	<mdl< td=""></mdl<>
SB-3	8/2/2013	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	<mdl< td=""></mdl<>
SB-4	8/2/2013	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	<mdl< td=""></mdl<>
ESL Table E-1 (V	/apor Intrusion)	63	130	16000	no value	14000	varies
ESL Table F-1b ((NDW)	63	130	25	590	590	varies
ESL Table F-1a ((DW)	5.0	5.0	6.0	6.0 茾	10	varies

1502 Lincoln Street, Calistoga, California

Notes:

PCE = tetrachloroethene	mg/kg = milligrams per kilogram
TCE = trichloroethene	bgs = below ground surface
1,1-DCE = 1,1-dichloroethene	<mrl =="" less="" limit<="" method="" reporting="" td="" than="" the=""></mrl>
cis-1,2-DCE= cis-1,2-dichloroethene	ESL = Environmental Screening Level
trans 1,1-DCE = trans-1,2-dichloroethene	(Res) = Residential Land Use
BOLD Value = Value reported above standard reporting limit	(C/I) = Commercial/Industrial Land Use
DW = Drinking water	NDW = Non-drinking water
ESL Table E-1 (VI) = ESL Table F-1a San Francisco Bay Regional	Water Quality Control Board (RWQCB)
ESL Workbook, Groundwater to indoor air, May 20	013
ESL Table F-1b (NDW) = ESL Table F-1b San Francisco Bay Regio	onal Water Quality Control Board (RWQCB)
ESL Workbook, Non-drinking Water, May 2013	
ESL Table F-1a (DW) = ESL Table F-1a San Francisco Bay Region	al Water Quality Control Board (RWQCB)

ESL Workbook, Drinking Water, May 2013

APPENDIX A

SOIL BORING PERMITS



				REAL P
E13-00444	SOIL BORING	PERMIT APPLIC	ATION	III OE ODIO
		I DEFARING		JUL 20 2013
	ENVIRONMEN	NIAL MANAGEI		
Napa County Use Only	Geotechnical Investig Phase 2 Investigation	ation LOP S	ite Other	
FEES		(Please	check one)	240-07
Date				
Receipt#		NOIVIBER	A9955990K	S PARCEL NOWBER
The following <u>MUST</u> be included before 1. Assessor's Parcel Number 2. Location map (showing both prop 3. Permission document(s) (if requinable)	pre this permit application posed and existing holes red)	n can be processed: 4. Encroachmer 5) 5. Clearance fro	nt permit(s) (if requi m public agency(ie	ired) es) (if required)
Site Name: Indian Se	ORINGS	Property Owner:	Mercho	ut/Indian Spring
Site Address: 1502 Liv	ncolu	City: Calis	toşa	Zip: 94-575
Owner's Mailing Address (7/7	Incalis	City: Oalea	torn	Zip: 94615
Owner's Maning Address. 1772	A/MCOID	Carlo Cecol	1 C C C	
		Type of	License [.]	
Drilling Contractor: EC	A	1,900,01	695	970 C-97
	: D (+	License	#: 100	
Mailing Address: 3011 Two	in tolms of	R	675	170
city: Anton	State:	1	Zip:	203
Consultant:			Telephone #:	
Address: 2500 Cam	no Dialolo c	ity: WalnuTC	Reef State: (2H Zip: 94597
Responsible Person at Site:	Robert F	. Flor		
	TV	pe of Work		
New Construction of Holes -	- # of Holes/	_ dias	ect push	,
Monitoring Molle currently on Site	2 - 0 - # of well		- /	
Reaso	n for Soil Boring Ins	tallation (Check as	manv as apply)	
Underground tank site:		Surface Impoundn	nent:	
Tanks Still Present:		Landfill Site:		
Spill or Discharge Site:		Geotechnical Stud	y:	
Baseline Study:	annan minister minister for an an fan die fan die fan die ser m	Other: Phase	11 - old .1	Dry Cleaner -
	Other S	ite Information:		
Closest Distance to:				
Septic System: Unk Sew	ver Line: 11/1/K	Water Wells: 🗸	NK Rivers, (Creeks, or Lakes: 900 54
Und	lerground Storage			
Underground Utilities: Tan	ks: Nond	F	L	
Riparian Cover Permit Required?	Yes	<u> </u>		
Issued by the County Public Work	s Dept. (Attach Copy)		· · · · · · · · · · · · · · · · · · ·	
May apply to any site outside City	limits and within 150 f	eet of a designated	waterway.	
Page 1 of 2	Permi	tApplication		

1

.

	Soil B	oring Permit Applic Page 2 of 2	ation			
Hole Location: Are all Holes co	vered by this app	plication on a single p	parcel and not on a	djoining Parcels or public		
or utility rights-of-way? Yes_X	<u>No lf</u>	no, list other parcels	, public rights-of-w	ay or utility rights-of-way.		
1. Owner or R/W Owner:		Site Address:	Lotato	APN.		
Owner address:	State:	L Zib:				
Number of Holes: Permission Document Attached:						
2. Owner or R/W Owner:		Site Address:		APN:		
Owner address:		City:	State:	∠ıp:		
Number of Holes:		Permission Docun	nent Attached:			
3. Owner or R/W Owner:		Site Address:		APN:		
Owner address:		City:	State:	Zip:		
Number of Holes:		Permission Docun	nent Attached:			
legal agent for the owner. If any bo	ings are proposed	I on public or utility righ	its-of-way, a written o	clearance and/or encroachmer		
permit must accompany this applica	tion.	Hole Construction				
permit must accompany this applica	Maximum De	Hole Construction	1			
Bore Hole Diameter:	Maximum De	Hole Construction				
Bore Hole Diameter:	tion. Maximum De みずく	Hole Construction epth: Type of Grout:	Nent C.e.	ment		
Permit must accompany this application Bore Hole Diameter:	tion. Maximum De みぞく	Hole Construction epth: Type of Grout:	Hent C.e.	ment		
Bore Hole Diameter:	Maximum De	Hole Construction epth: Type of Grout:	Nent Ce.	ment		
permit must accompany this applica Bore Hole Diameter: 205 // dice	Maximum De	Hole Construction epth: Type of Grout:	Hent Ce.	ment		
permit must accompany this applica Bore Hole Diameter: 205 // dice	Maximum De	Hole Construction epth: Type of Grout: Disposal Methods	Nent Ce.	ment		
Bore Hole Diameter: 205 // dice Soil Cuttings Daumed a	Maximum De	Hole Construction epth: Type of Grout: Disposal Methods	Nont Ce.	ment Mognzate dizza		
Bore Hole Diameter: <u>205</u> ^(I) <u>dice</u> Soil Cuttings <u>Dammed</u>	Maximum De	Hole Construction epth: Type of Grout: Disposal Methods Cencely Ferry rilling contractor and	Nont Ce.	ment Mographite dign responsible for the		
Permit must accompany this application Bore Hole Diameter: <u>2.5.11 d.ce</u> Soil Cuttings <u>Dammed</u> In applying for this permit, I under following:	tion. Maximum De 3.5^{-1} $2n_{3}$, 5^{-1} , rstand that the d	Hole Construction apth: Type of Grout: Disposal Methods <i>Disposal Methods</i> <i>Ce.ncl.y.kc.</i> rilling contractor and	Nent Ce Nent Ce	ment Mographite diza responsible for the		
Permit must accompany this application Bore Hole Diameter: <u>205 (1) dice</u> Soil Cuttings <u>Dammed</u> In applying for this permit, I under following: 1) Compliance with the State of	Maximum De	Hole Construction pth: Type of Grout: Disposal Methods Cencely Fc rilling contractor and per's Compensation L	Non Ce	ment Mographite digge responsible for the		
Permit must accompany this application Bore Hole Diameter: <u>2.5.11 dice</u> Soil Cuttings <u>Dammed</u> In applying for this permit, I under following: 1) Compliance with the State of 2) Compliance with the State a	Maximum De	Hole Construction apth: Type of Grout: Disposal Methods Concly Fer rilling contractor and ther's Compensation L er Health and Safety thutilities which might	<i>Nent Ce</i> <i>Nent Ce</i> <i>the consultant are</i> aws; Laws; be impacted by the	ment Mographic dign responsible for the		
permit must accompany this applica Bore Hole Diameter: 2.5 // d.cc Soil Cuttings Dawmad In applying for this permit, I under following: 1) Compliance with the State or 2) Compliance with the State at 3) Location of all underground at 4) Compliance with the Napa Compliance with the State at	Maximum De 35 2013 to 10 rstand that the d California Work and Federal Work and aboveground ounty and State	Hole Construction epth: Type of Grout: Disposal Methods Cence by Accord rilling contractor and er's Compensation L er Health and Safety d utilities which might of California well req	the consultant are aws; Laws; be impacted by the uirements;	ment Momputedig responsible for the e proposed work;		
permit must accompany this applica Bore Hole Diameter: 205 11 dice Soil Cuttings Dawmed In applying for this permit, I under following: 1) Compliance with the State or 2) Compliance with the State at a 3) Location of all underground at 4) Compliance with the Napa C 5) Notification of the NCDEM* at a state of the NCDEM* at a s	Maximum De	Hole Construction apth: Type of Grout: Disposal Methods Concly Fer rilling contractor and ter's Compensation L er Health and Safety d utilities which might of California well req orkdays before work	<i>Nent Ce</i> <i>Nent Ce</i> <i>Ment Ce</i> <i>the consultant are</i> aws; Laws; be impacted by the uirements; is initiated,	ment Mographic digns responsible for the e proposed work;		
permit must accompany this application Bore Hole Diameter: 205 (1 d)cc Soil Cuttings Jaumad In applying for this permit, I under following: 1) Compliance with the State or 2) Compliance with the State at 3) Location of all underground at 4) Compliance with the Napa C 5) Notification of the NCDEM* with	Maximum De 3-5 2-1	Hole Construction epth: Type of Grout: Disposal Methods Cencely Act rilling contractor and er's Compensation L er Health and Safety d utilities which might of California well req orkdays before work ays of the discovery of	the consultant are aws; Laws; be impacted by the uirements; is initiated, f contaminated soi	ment Mongan & dign responsible for the e proposed work; I or ground water and		
permit must accompany this application Bore Hole Diameter: 205 11 dice Soil Cuttings Jacumed a In applying for this permit, I under following: 1) Compliance with the State or 2) Compliance with the State a 3) Location of all underground a 4) Compliance with the Napa C 5) Notification of the NCDEM* a 6) Notification of NCDEM* with	Maximum De	Hole Construction apth: Type of Grout: Disposal Methods Concly Fred rilling contractor and ter's Compensation L er Health and Safety d utilities which might of California well req orkdays before work ays of the discovery of	the consultant are aws; Laws; be impacted by the uirements; is initiated, of contaminated soi	ment Mographic digns responsible for the e proposed work; I or ground water and		
permit must accompany this application Bore Hole Diameter: 205 // dice Soil Cuttings Jaumad In applying for this permit, I under following: 1) Compliance with the State or 2) Compliance with the State at 3) Location of all underground at 4) Compliance with the Napa Co	Maximum De	Hole Construction pth: Type of Grout: Disposal Methods Cenal y Act rilling contractor and ter's Compensation L ter Health and Safety d utilities which might of California well req orkdays before work ays of the discovery of	$\frac{1}{NenT Ce}$	ment <u>ment</u> <u>theometry</u> responsible for the e proposed work; I or ground water and 3		
permit must accompany this application Bore Hole Diameter: 205 11 dice Soil Cuttings Dawmed In applying for this permit, I under following: 1) Compliance with the State or 2) Compliance with the State at a 3) Location of all underground at 4) Compliance with the Napa C 5) Notification of the NCDEM* at a 3) Location of the NCDEM* at a 3) Location of all underground at a compliance with the Napa C 5) Notification of the NCDEM* at a 3) Location of all underground at a compliance with the Napa C 6) Notification of the NCDEM* at a 3) Location of all underground at a compliance with the Napa C 5) Notification of the NCDEM* at a 3) Location of all underground at a compliance with the Napa C 6) Notification of the NCDEM* at a 3) Location at a 3) Location at a 3) Location at a 3) Location at a 3) Locat	Maximum De	Hole Construction apth: Type of Grout: Disposal Methods Concluster rilling contractor and ter's Compensation L er Health and Safety d utilities which might of California well req orkdays before work ays of the discovery of	the consultant are aws; Laws; be impacted by the uirements; is initiated, f contaminated soi	ment Mographic digns responsible for the e proposed work; I or ground water and 3		
permit must accompany this application Bore Hole Diameter: 2 • 5 11 dice Soil Cuttings Jaumad In applying for this permit, I under following: 1) Compliance with the State or 2) Compliance with the State at 3) Location of all underground at 4) Compliance with the Napa C 5) Notification of the NCDEM* with Signature of Authorized Agent of I Or Site Consultant	Maximum De 3-5 2-11-5-5 	Hole Construction pth: Type of Grout: Disposal Methods Cenal y Fer rilling contractor and ter's Compensation L ter Health and Safety d utilities which might of California well req orkdays before work ays of the discovery of C	$\frac{1}{NexT Ce}$	ment <u>ment</u> <u>theometry</u> responsible for the e proposed work; I or ground water and 3		
Bore Hole Diameter: 205 11 dice Soil Cuttings Dawmed In applying for this permit, I under following: 1) Compliance with the State or 2) Compliance with the State at at a compliance with the State at at a compliance with the Napa C 3) Location of all underground at the NCDEM* at a compliance with the Napa C 5) Notification of the NCDEM* at a compliance with the Napa C 6) Notification of the NCDEM* at a compliance with the Napa C 5) Notification of the NCDEM* at a compliance with the Napa C 6) Notification of the NCDEM* at a compliance with the Napa C 6) Notification of the NCDEM* at a compliance with the Napa C 6) Notification of the NCDEM* at a compliance with the Napa C 6) Notification of NCDEM* with at a compliance of NCDEM* at a compliance with the Napa C 6) Notification of NCDEM* with at a compliance of NCDEM* with at a compliance of Authorized Agent of NCDEM* at a compliance of a state compliance of a state compliance at a sta	Maximum De	Hole Construction apth: Type of Grout: Disposal Methods Concly Fee rilling contractor and ther Health and Safety d utilities which might of California well req orkdays before work ays of the discovery of the discovery of the discovery of the discovery of the discovery of	$\frac{1}{NenT Ce}$	ment Magnant dign responsible for the e proposed work; I or ground water and 3		
Bore Hole Diameter: 205 // dice Soil Cuttings Dawmed In applying for this permit, I under following: 1) Compliance with the State or 2) Compliance with the State or 3) Location of all underground at 4) Compliance with the Napa C 5) Notification of the NCDEM* with 6) Notification of the NCDEM* with Mathematication of Authorized Agent of I Or Site Consultant FOR OFFICIAL USE ONLY Required certificate of current work Consultant: Exp. Date: Contractor: Exp. Date: 0	Maximum De	Hole Construction pth: Type of Grout: Disposal Methods Cenal y Fer rilling contractor and ter's Compensation L ter Health and Safety d utilities which might of California well req orkdays before work ays of the discovery of the discovery of the discovery of the discovery of the discovery of the discovery of	$\frac{1}{NexT Ce}$	ment <u>Mangarta digna</u> responsible for the e proposed work; I or ground water and 3		
Bore Hole Diameter: 205 11 dice Soil Cuttings Dawmed In applying for this permit, I under following: 1) Compliance with the State or 2) Compliance with the State at at a state of all underground at the state or 3) Location of all underground at the Napa C 5) Notification of the NCDEM* at a state of Notification of the NCDEM* at a state of a state of Notification of the NCDEM* at a state of a state of Notification of the NCDEM* at a state of the NCDEM* at a state of Notification of the NCDEM* at a state of a state of Notification of the NCDEM* at a state of a state of Notification of the NCDEM* at a state of a state of Notification of the NCDEM* at a state of	Maximum De	Hole Construction apth: Type of Grout: Disposal Methods Concly Fer rilling contractor and ther Health and Safety d utilities which might of California well req orkdays before work ays of the discovery of Concly Construction the discovery of the discovery of Disposal Methods The construction Disposal Methods The construction Disposal Methods The construction Disposal Methods The construction Disposal Methods The construction The construction Disposal Methods The construction The construction Disposal Methods The construction The constr	$\frac{1}{NenT Ce}$ $\frac{1}{NenT Ce}$ $\frac{1}{NenT Ce}$ $\frac{1}{2}$ $\frac{1}{2$	ment Magnatute diga responsible for the e proposed work; I or ground water and 3		

					RECEIVED
E13-00445	SOIL BORING	PERMIT A	PPLICATIO	DN	JUL 25 2013
	NAPA COUN ENVIRONMEI	TY DEPAR NTAL MAN		: Г	Napa County Planning, Building
					SAA - Saad T M & Const 11.1 A San Sa Kata Sa Ka
apa County Use Only	Geotechnical Investig	jațion	LOP Site	Other	
	Phase 2 Investigation	μĄ	(Plaana abaak)	ono)	
Date By			(Flease check	O_{ll}	1-340-03
Receipt#	NCDEM SITE I	NUMBER	A	SSESSO	R'S PARCEL NUMBER
The following <u>MUST</u> be included be 1. Assessor's Parcel Number 2. Location map (showing both p 3. Permission document(s) (if re	pefore this permit applicatio proposed and existing hole quired)	n can be proc 4. Encro s) 5. Clear	essed: bachment perm ance from publ	it(s) (if requ ic agency(i	iired) es) (if required)
s a prime province of the second s The province of the second s The province of the second					
Site Name: Indian	Springs	Property Ov	vner: M-	erch	ant/Indian Span
Site Address: 1502	incoln	City: C	alistos	<u>q</u>	Zip: 94575
Owner's Mailing Address: / 7/	2 Lincoln	City: Co	alistog	Û	Zip: 94515
	~ n_	•	Type of Licens	se: 1.95	970 6-57
Drilling Contractor:	CH		iconco #:	619	110 001
Mailing Address: 3011 Tu	vin Palms &	Dre	_icense #.	695	970
City: Anton	State:	4-		Zip:	700 3
City. TUTES					
Consultant:			Teler	hone #	
Consultant.	5 11		-1-		
Address: 2500 Car	nino Dialolo (City: Wall	nu/Creek	State: (CH Zip: 94597
Responsible Person at Site:	Robert P	Flor			
	Ţ	pe of Work			
New Construction of Holes	# of Holes	<u>/</u>			
Monitoring Wells currently on S	Site? - O-# of we	lle			
Rea	ason for Soil Boring Ins	stallation (Cl	neck as man	as apply	1
Underground tank site:		Surface Im	poundment:		
Tanks Still Present:		Landfill Site	э:		
Spill or Discharge Site:		Geotechnic	cal Study:		
Baseline Study:		Other: Ph	ase 11.	- old .	Dry Cleaner -
	Other	Site Informa	tion:		1
Closest Distance to:	·				
Septic System: Unk	Sewer Line: UNK	Water Wel	ls: UNK	_ Rivers,	Creeks, or Lakes: りつつ が
	Inderground Storage				
Dinderground Utilities:	idinks. 7 Von C	Ł	$\overline{\mathbf{v}}$		
Issued by the County Public M	orks Dent (Attach Conv)			
May apply to any site outside (City limits and within 150	, feet of a desi	gnated water	way.	
may apply to any site balaide t				i ulita qua l'ante tamin Marini d'Ante provinci	
Page 1 of 2	Perm	it Application			

				011-340-03
	Soil I	Boring Permit Appli Page 2 of 2	cation	
Hole Location: Are all Holes or utility rights-of-way? Yes	covered by this ap	oplication on a single f no . list other parcels	parcel and not on a s. public rights-of-w	adjoining Parcels or public vay or utility rights-of-way.
1. Owner or R/W Owner:	na tradici di una di tra di	Site Address:		APN:
Owner address:		City:	State:	Zip:
Number of Holes:		Permission Docur	ment Attached:	
2. Owner or R/W Owner:	Site Address:		APN:	
Owner address:		City:	State:	Zip:
Number of Holes:		Permission Docur	ment Attached:	
3. Owner or R/W Owner:		Site Address:		APN:
Owner address:		City:	State:	Zip:
Number of Holes:		Permission Docur	ment Attached:	
permit must accompany this appli	cation.	Hole Construction		
Bore Hole Diameter:	Maximum D	epth:		
2.5" dice	25'			·
Soil Cuttings <u>Dawmed</u> In applying for this permit, I une following: 1) Compliance with the State 2) Compliance with the State 3) Location of all underground	erstand that the of California Wor and Federal Wor d and abovegroun	Disposal Methods	The consultant are aws; / Laws; t be impacted by th	e responsible for the
 4) Compliance with the Napa 5) Notification of the NCDEM 6) Notification of NCDEM* with 6) Stignature of Authorized Agent of Or Site Consultant <u>FOR OFFICIAL USE ONLY:</u> <u>Required certificate of current</u> <u>Consultant</u>: Exp. Date: 	County and State * at least two (2) workd thin two (2) workd of Driffing Contractor worker's compensation	e of California well rec workdays before work ays of the discovery of r r r r r r r r r r r r r r r r r r r	juirements; is initiated, of contaminated so <u>2213</u> Date DEM;	il or ground water and
Permit Issued by: Market	commed			zin austrenden da Standarden etta Schönkerdinen kenkere in der
/ <i>V</i> *	Permit is valid 4	Date:	7/31/13	

KEGEIVED

E13-0044	SOIL BORING F	PERMIT APPLICATION Y DEPARTMENT OF	JUL 2 5 2013 Napa County Planning, Building
	EINAUKOIAIAIEI		& Environmental Services
Napa County lise Only	Geotechnical Investig	ation LOP Site	Other
	Phase 2 Investigation	<u>X</u>	
FEE \$		(Please check one	011-340-04
Date By			ESSOR'S PARCEL NUMBER
Receipt#	NUDEM SHE N		
The following <u>MUST</u> be included be 1. Assessor's Parcel Number 2. Location map (showing both pro 3. Permission document(s) (if requ	fore this permit application oposed and existing holes uired)	 4. Encroachment permit(s 5. Clearance from public a 	s) (if required) agency(ies) (if required)
Site Name: Indian 5	DRINGS	Property Owner: M-e	schant/Indian Spring &
Site Address: 1502 2	ncoln	City: Calistogo	Zip: 94575
Owner's Mailing Address: /7/.2	Luncola	City: Calistera	Zip: 94515
		Type of License:	I GOTO C ET
Drilling Contractor: EC	CA-		675770 0-91
Mailing Address: 3011 Tu	in Polms J	Dre License #:	695970
A at	State:	r Zi	p: C 500 3
<u>City: H-0103</u>			
	Paran Ingela kara dari kara na tan kara		azina muzikana katalakan kata kata katalakan zerangan di katalakan yang katalakan katalakan katalakan katalakan
Consultant:		Telepho	one #:
Address: 2500 Can	ino Dialelo o	ity: Walnut Creeks	state: CH Zip: 94597
	PLATE	Flore	
Responsible Person at Site:	$\wedge o \mathcal{O} \mathcal{E} \mathcal{E} $	· / /ORY	
Now Construction of Holes	- # of Holes	7	
		A	
Monitoring Wells currently on Sit	e? # of wel	IS ·	
Reas	on for Soil Boring Ins	tallation (Check as many a	s apply):
Underground tank site:		Surface Impoundment:	
Tanks Still Present:		Landfill Site:	
Spill or Discharge Site:		Other: Vhcit a 11 -	ald Day Cleaned
Daseline Study.	OtherS	Site Information:	
Closest Distance to:			
Sentic System: UNK Se	wer Line: iLuK	Water Wells: UNK	Rivers, Creeks, or Lakes: 900 50
Ur	nderground Storage		
Underground Utilities: Ta	inks: Nond	<u>L</u>	
Riparian Cover Permit Required	? Yes	No X	
Issued by the County Public Wo	rks Dept. (Attach Copy)	· · · · · · · · · · · · · · · · · · ·	
May apply to any site outside Cit	y limits and within 150 f	eet of a designated waterwa	
Page 1 of 2	Permi	t Application	

.

	Soil Boring Permit App Page 2 of 2	olication	
Hole Location: Are all Holes cove or utility rights-of-way? Yes_X	ered by this application on a sing No If <u>no</u> , list other parc	le parcel and not on a els, public rights-of-v	adjoining Parcels or public vay or utility rights-of-way.
1. Owner or R/W Owner:	Site Address:		APN:
Owner address:	City:	State:	Zip:
Number of Holes:	Permission Doc	ument Attached:	
2. Owner or R/W Owner:	Site Address:		APN:
Owner address:	City:	State:	Żip:
Number of Holes:	Permission Doc	ument Attached:	ezmentek konstantiset konstantiset konstantiset konstantiset konstantiset konstantiset konstantiset konstantis
3. Owner or R/W Owner:	Site Address:		APN:
Owner address:	City:	State:	Zip:
Number of Holes:	Permission Doc	ument Attached:	
legal agent for the sumar of any harin	as are proposed on public or utility	ights-of-way, a written	clearance and/or encroaching
permit must accompany this application	Hole Construction	on	
Bore Hole Diameter:	Hole Constructio	on I	
Bore Hole Diameter:	Hole Construction	on 	
Bore Hole Diameter:	Hole Constructio Maximum Depth: スティ Type of Grou	on ut: Neat Ce	ment
Bore Hole Diameter: <u>205</u> Soil Cuttings In applying for this permit, I unders	Hole Construction Maximum Depth: 3.5.1 Type of Grou Disposal Method	Is nd the consultant are	ment theoppart dig
Bore Hole Diameter: 3.5 / dice Soil Cuttings Dawmed end In applying for this permit, I underse following: 1) Compliance with the State of C 2) Compliance with the State and 3) Location of all underground an 4) Compliance with the Napa Cou 5) Notification of the NCDEM* at 6) Notification of the NCDEM* at 6) Notification of the NCDEM* at 6) Notification of the NCDEM* within Signature of Authorized Agent of Dr Or Site Consultant FOR OFFICIAL USE ONLY III Required certificate of current work Consultant Exp. Date: Contractor: Exp. Date: 5/1//14	Hole Construction Hole Construction Maximum Depth: Disposal Method Disposal Method Maximum Depth: Disposal Method Maximum Depth: Disposal Method Maximum Depth: Disposal Method Met	bin t: New T Ce t: New T Ce t: New T Ce tis New T Ce	ment <u>ment</u> <u>theometric dry</u> e responsible for the ne proposed work; il or ground water and <u>3</u>
Bore Hole Diameter: 3.5.7 Jice Soil Cuttings Dawmed co In applying for this permit, I underse following: 1) Compliance with the State of C 2) Compliance with the State and 3) Location of all underground and 4) Compliance with the Napa Cou 5) Notification of the NCDEM* at 6) Notification of the NCDEM* at 6) Notification of the NCDEM* within Signature of Authorized Agent of Dr Or Site Consultant (FOR OFFICIAL USE ONLY 1) Required certificate of current work Consultant Exp. Date: Contractor: Exp. Date: 571/151 Permit Issued by:	Hole Construction Hole Construction Maximum Depth: 3.5 Type of Ground Disposal Method Maximum Depth: 3.5 Type of Ground Disposal Method Meth	bin it: New T Ce it: New T	ment <u>ment</u> <u>theometry</u> eresponsible for the ne proposed work; il or ground water and <u>3</u>

.

APPENDIX B

BORING LOGS



Environmen	Consult	ants	A	El Consulta	ants	В	ORING NUMBER SB-1 PAGE 1 OF 1
	Indian Spr	ings Resort				PROJECT NAME Indian Springs Res	sort
PROJE		321593					Avenue, Calistoga, CA 94515
			` A	COMPLE	ETED 8/2/13		HOLE SIZE _2.25 inches
		Direct Pu	vA Jeh			∇ AT TIME OF DRILLING Q 00 f	÷
LOGGE	DBY Robe	ert E Flory	1311	CHECKE	D BY	AT FND OF DRILLING	L
NOTES		itt flory		0.120112		AFTER DRILLING	
DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS	PID DATA (ppm	GRAPHIC LOG	М	ATERIAL DESCRIPTION	COMPLETION
				0.4	(CL-ML) Silty Clay, br	own - yellow brown, gravelley-rocky, stiff	, ,
					CL-ML) Siltv Clav. br	own, occasional gravel, stif. moist	/
				3.0	(CL-ML) Silty Clay, br	own, moderately stiff, moist	
5			<1				
	SB-1-7.5		<8	9.0		irk brown, moderately still, moist to very	moist
10				11.0			
	SB-1-11.5		1.1		(ML) Sandy Silt, dark downward, firm, wet	grown to dark gray, sand increasing	
					SW) Sand - Sandy G grained gravel, firm - I	ravel, dark gray, fine grained sand - fine hard, friable, wet.	
15			-1		(GW) Sandy Gravel, o firm, wet	lark gray, fine - coarse grained sand mat	rix,
<u>;</u> ∠	1-10.0			16.0	0Bot	tom of borehole at 16.0 feet.	

Environm	A Engineering	ants	A	El Consu	ultants	BORI	NG NUMBER SB-2 PAGE 1 OF 1
CLIEN	IT Indian Spr	ings Resort	:			PROJECT NAME Indian Springs Resort	
PROJ		<u>321593</u>		0040			e, Calistoga, CA 94515
		<u>3/2/13</u>		COMP	LETED <u>8/2/13</u>		IULE SIZE 2.25 Inches
			JA Joh			$\nabla \mathbf{ATTIME OF DBULING} = 10.00 \text{ ft}$	
		The Flory	1511	CHEC			
NOTE	S			ONEO			
DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS	PID DATA (ppm)	GRAPHIC LOG	Μ	ATERIAL DESCRIPTION	COMPLETION
				0).4 Wood chip, coarse		
					(CL-ML) Silty Clay, br	own, occasional gravel/rock, stiff, moist	
				2	2.5		_
	-				(CL-ML) Silty Clay, br	own, stiff, moist	
			<1				
5				5	5.0		_
	X SB-2-5		-1		(CL-ML) Silty Clay, da	ark brown - brown, moderately stiff, moist	
<u>-</u> -	-		<1				
L -	SB-2-7.5						
	-						
10					10.0 🗸		
					(CL-ML) Sandy Silty (Clay, dark brown - brown, moderately stiff, wet	
L -							
	SB-02-11 5		<1				
	V 00 02-11.0				(SP-SM) Silty Sand, v	ery fine grained - silt grade, moderately firm.	-
					wet		
1-							
15			<1		(SW) Sand, dark gree	nish gray, very fine - coarse grained, fine	-
	SB-2-15.5				rounded gravel at top	becoming finer downward, firm, friable	
					Bot	tom of borehole at 16.0 feet.	
5							
2							

Envin	Consult Consult	tants Services	A	El Consu	ltants	B	DRING NUMBER SB-3 PAGE 1 OF 1
CLI	ENT Indian Spi	rings Resort				PROJECT NAME Indian Springs Res	ort
PR	DJECT NUMBER	R <u>321593</u>				PROJECT LOCATION 1502 Lincoln	Avenue, Calistoga, CA 94515
DA		8/2/13		COMP	LETED 8/2/13	GROUND ELEVATION	HOLE SIZE _21.25 inches
DR	LLING CONTRA	CTOR EC	A			GROUND WATER LEVELS:	
DR	LLING METHO	Direct Pu	ish			$\overline{2}$ at time of drilling _9.50 ft	
LO	GGED BY Robe	ert F Flory		CHEC	KED BY	AT END OF DRILLING	
NO	TES					AFTER DRILLING	
o DEPTH	(IT) SAMPLE TYPE NUMBER	BLOW COUNTS	PID DATA (ppm)	GRAPHIC LOG	Μ	ATERIAL DESCRIPTION	COMPLETION
				0	L3Asphalt		
F	_			1	.0 (CL) Sandy Gravelly (slightly moist, firm (Fi	Jlay, gray - grayish brown, dense, dry - ve Il/disturbed)	ry /
-	-				(CL-ML) Silty Clay, br	own, slightly moist - moist, stiff	
5	SB-3-5		<1	5	.0 (CL-ML) Silty Clay, br	own, slightly moist - moist, stiff	
- 10					(CL) Sandy Silty Clay downward, stiff ⊻ 0.5	r, brown, moist - moisture increasing	
	- X SB-3-11.5		1.2		(SW-SC) Sandy Clay moderately stiff, sligh	- Clayey Sand, brown - dark brown, wet, y plastic	
15					(SP-SC) Clayey Sand with no clay, locally st	, dark gray - dark greenish gray, locally st reaks with fine gravel, wet, firm	reaks
ð							
	X SB-3-15.5		1.4	1	6.0	tom of horoholo at 16.0 fact	

Environ	Consult mental & Engineering 1 NT Indian Sor	ants iervices	A	El Cons	ultants	BOIECT NAME Indian Springs Resort	RING NUMBER SB-4 PAGE 1 OF 1
		11195 NESUIT				PROJECT LOCATION 1502 Lincoln Ave	
PROJ		<u>321593</u>		COM			
DATE		<u>0/2/13</u>		COM	PLETED 8/2/13		HOLE SIZE 2.25 Inches
DRIL			;А				
DRIL	LING METHOD	Direct Pu	ish			→ AT TIME OF DRILLING 9.80 ft	
LOGO	GED BY Robe	ert F Flory		CHEC	:KED BY	AT END OF DRILLING	
NOTE	ES					AFTER DRILLING	
DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS	PID DATA (ppm)	GRAPHIC LOG	Μ	ATERIAL DESCRIPTION	COMPLETION
	SB-4-5 SB-4-7.5 SB-11.5		<1		(CL-ML) Silty Clay, br (disturbed) 6.5 6.7 Red Brick, hard, dry (CL-ML) Silty Clay, br 10.0 ♀ (CL) Sandy Clay, darl (CL) Sandy Clay, darl (SP-SM) Silty Sand, c	own - yellowish brown, slightly moist, firm own - yellowish brown, moist, firm	
			<1.5		16.0	tom of borehole at 16.0 feet.	

APPENDIX C

LABORATORY ANALYTICAL REPORTS





McCampbell Analytical, Inc. "When Quality Counts"

Analytical Report

AEI Consultants	Client Project ID: #321593; Indian Springs	Date Sampled: 08/02/13	
2500 Camino Diablo. Ste #200		Date Received: 08/02/13	
	Client Contact: Robert Flory	Date Reported: 08/08/13	
Walnut Creek, CA 94597	Client P.O.: #WC084264	Date Completed: 08/06/13	

WorkOrder: 1308118

August 08, 2013

Dear Robert:

Enclosed within are:

- 1) The results of the **4** analyzed samples from your project: **#321593; Indian Springs,**
- 2) QC data for the above samples, and
- 3) A copy of the chain of custody.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits.

If you have any questions or concerns, please feel free to give me a call. Thank you for choosing McCampbell Analytical Laboratories for your analytical needs.

Best regards,

Angela Rydelius Laboratory Manager McCampbell Analytical, Inc.

The analytical results relate only to the items tested.

	ЛсС	am	pbe	ell	A	nc	aly	rtic	20	ıl,	In	С							Cł	A		C	F	CI	JS	TC	D	Y	RE	C	O	RD	17	2	
	1534 Wi	llow Po	uss Rd. /	Pitt	sbu	rg, C	.a. 9	7456	5-1	701						τι	JRN	AR	OUN	DT	IME	: RU	SH	24	HR	48	BHR	7	2 HR	A	5 DA	YD	10 6A	Y 📮	1
w w	ww.mcc	ampb	ell.com	/ r	main	@m	ccc	mp	bel	.co	m		. 0			Ge	oTra	cker	EDF		PDF		EDD		Write	e On	(DW		EQ	uIS		/			
	Telepho	one: (8)	77) 252-9	926	2/F	ax:	(925	5) 25	2-92	269	_0	21	18)										_	UCT	Class		E	d D.		-	Clai	m #		_
									1	5	\cup	0				Eff	luen	t Sar	nple	Kequ	iring	. J.	nag	4	051	Clea	n Up	run	ia Pr	ojeci	·Ц;	Ciar			_
Report To: Rob	ert Flory				Bil	To:	AE	I															0	Ana	ysis	Req	uest			_		_	-	-	-
Company: AEI															_																				
2500 Cam	ino Diab	lo													_	TBE		&F)							5										
Walnut C	Creek, CA	94597			E-1	Mail	: rfl	ory@	aei	cons	ulta	nts.	com		_	/W		EB				crs			2			6	8		ysis				
Tele: 925-746-600	00	0			Far	C: 92	24-74	16-6)99	0						260)		5520		51)		ngen			2			602	602(amal				
Project #: 32159	1502 1	1.10	P /	2	Pro	oject	Nar	ne: I	ndia	in Sj	orin	gs	_		-	or 8		54/	8.1)	/ 800	()	/ C01		cides	H		NAs)	010/	10/	6	ctals				
Project Location:	1502 Lin	ooin, Ca	ilistoga, i	A	2	Irch	iser	rate	r# y	HEUR	\$426	4			-	8015		:(16	s (4)	8260	icide	lors	8	lerbi	(8)	(Cs)	s/Pl	8/6	8/60	602	Dm				
Sampler Signatur	e:	04	M.	4	-	1	<u>/</u>	IAT	DIV	/			ME	THO	OD	21/3		rease	urbon	Ada	Pest	Aroc	sticid	CLE	No.	SVC	PAH	200.	200.5	010	LVE				
	1	SAM	PLING				141		2	_			PRE	SER	VED	IS (8(6	& G	droca	X	G	3's;	P Pes	cidic	260 (270 (10 (0.7 /	11.0	8/6	SSO				
	Location/		_	L'S			er	/								as Ge	(801	lio	h Hy	NO	808	2 PC	1 (N	I (A	4/8	5/8	1/83	s (20	(20	200	or DI				
SAMPLE ID	Field Point			ine	Vate	tter	Wal	er							2	H	Issel	leur	leum	IEX	808	8082	814	815	/ 62	/ 62	SIN	fetal	ctals	0.7/	ple fo				
	Name	Date	Time	nta	A PE	M	ing	Wat							1	& T	SDid	letro	Cetro	C/B	05/ 0	08/	10	15/	24.2	25.2	8270	17.8	5 M	5	lunss				
				ပိ	Loui	aste	rink	1 8	ų	.5	apn	the	U	NO	ther	EX	PHa	otal 1	tal]	IBI	PA 5	PA 6	PA 5	PA 5	PA S	PA 5	M	AM	UFT	fetal	lter				
		11		#	9	2	Q	3	ιž.	<	20	<u> ٥</u>	Ξ	H	0	B	F	Ĕ	Ĕ	Σ	E	E	E	E	Ξ	Ξ	E	0	H	2	E	-		-	-
56-2-5	GB-2	1/0/13	1040						K						1														40	K				-	_
5B-2-7.5	4B-2	11	1042						X						V										X										_
5B-2-11.5	3B-2		1044						F						V								-					La	11					_	
5B-2-15.5	56-2		10+8	l					X						X												9	1.7	C	1					
93-4-5	SB-4		1115	1					V						X													fo	C	1					
9B-4-75			1121	1					Y						1										K		1								
SB-4-11.5		A .	126	1					Y			\square			\sum												14	0/	17						
5B-4-15,5		1/	1120						X			Π			5											1	1	ľ	1						
56-1-215			1200						X			П			1										4				0						
9B-1 -11. 7			1205	-1					1						7										L	11	5/	N							
JB-1~15,5		E	12/1	1					5						X										A	T	Pl	P	1						
**MAI clients MUST	disclose any	dangerou	as chemical	s kn	own t	o be p	resen	t in t	heir s	ubmi	tted s	am	ples i	n con	centr	ratio	ns tha	t may	caus	e imr	nedia	te hai	m or	serie	us fu	ure l	health	n enda	anger	ment	as a	result	ofbri	ief, Iowir	ıg
gloved, open air, samp us to work safely.	le handling	by MAI s	taff. Non-d	isclo	sure i	ncur	an ir	nmed	iate S	5250 s	urch	arge	and	the c	lient	is su	bject	to ful	llega	l liabi	lity fo	or hai	m su	iffere	1. Th	ank y	ou fo	or you	Ir un	aersta	andin	ig and	101, 111		-
Relinquished By:	1.	Date:	/ Time:		Rece	ived	By	1	_				1	I	CE/ť	.4	,4		_							(COM	MEN	TS:						
Kotte	K	8/2/	31/2UM	01	1		1	1	10	11	1	V	-6		GOOI	D CO	NDI	ARSE	NT	-															
Relinquished By:	V	Date:	Time:	+	Rece	ived	By:					-			DECH	ILOI	RINA	TED	INL	AB															
														A	PPR	OPR	EDI	E CO	NTAI	NER	s														
Dolinguished Du		Data	Time	\rightarrow	Deer	in all	Dave							-1 '	AL3	POIL A	201	A KIN		_				2 20.000											
Reinquisned By:		Date:	1 lime:		Rece	ived	by:								DEC	FPV	ATI	VO	DAS	0&	GI	MET/	LS	OT	HER	1	HAZ	ARD	OUS:						
					-									ľ	ALS	LICV	AIR	A14			P	11-4												_	_

	МсС	am	pbe	ell	A	nc	aly	/tic	cc	яI,	In	C							C	HA		10	DF	С	US	TC	DD	Y	RE	EC	0	RD	3	FZ	7
	1534 Wi	illow Pa	ss Rd. /	Pitt	sbu	rg, (Ca. 9	9456	65-1	701						Т	JRN	AR	OUN	T D	IMI	C: RI	JSH	2	4 HR		48 HF		72 HI	R	5 DA	Y 🔲	10 D.	AY [ב
v v	www.mcc	campbe	ell.com	n / r	mair	@m	ncco	amp	bel	l.co	m					Ge	GeoTracker EDF PDF EDD Write On (DW) EQuIS																		
	Telepho	one: (87	7) 252-	926	2/F	ax:	(925	5) 25	52-92	269																									
																Ef	Effluent Sample Requiring "J" flag UST Clean Up Fund Project []; Claim #										-								
Report To: Rob	ert Flory				Bil	l To:	AE	CI .										_		_				Ana	lysis	Re	ques	t	_	_	_				
Company: AEI																																			
2500 Car	nino Diab	lo			_											IBE		&F)																	
Walnut	Walnut Creek, CA 94597 E-Mail: rflory@aeiconsultants.com											1		W/		EB				GLS			1			6	6		ysis						
Tele: 925-746-60	00 Fax: 924-746-6099												_	260)		5520		12		ngen			0	1		602	602(anal						
Project #: 3215	93	1.1		-	PP	rect	Nar	me: I	India	an S	prin	gs	_			or 8		12	8.1)	V 80	6	0		cides	D		(SAS)	010/	10/	6	tals				
Project Location:	: 1502 Lyn	comccal	ustoga, d	4	A	ircha	ase (Irde	r# V	VC0	8426	4				\$015		(16	s (4)	8260	icide	lors	8	erbi	X	C)	Id/s	8/6	/ 60	602	Due				
Sampler Signatu	re:	1	14	4	-		D.	TAT:	DIV		_	_	M	ETHO	DD	21/3		case	rbon	AT	Pest	Aroc	ticid	CIH	§.	SVO	AHE	200	00.8	10/	EN				
	//	SAMP	PLING				IV	141	MIA				PRE	SER	VED	s (80	6	& G	Iroca	Y (F	(CI	3'8.	Pes	idic	000	70 (10 (F	110	7/2	8160	IOSS				
	X.		/	100			1									s Ga	801	EO.	Hyd	INO	8081	PCE	Z	(Y	1/82	1 82	/ 83	50	500	200.8	DIS				
SAMPLE ID	Field Point			ner	ater	ter	Vata									PHa	sel	eum	eum	EX	08/	9082	8141	8151	624	625	SIM	etals	tals	10	e for				
	Name	Date	Time	Itai	MP	Wa	gu	Vate								& TI	Die	etrol	etrol	/BT	15/6	8/8	14	51	4.2	5.2	270	ML	5 Mc	500	Idua				
				3	uno	aste	inki	10	-		dge	her	H	io,	her	EX	H as	lal P	tal P	IBE	A 50	A 60	A 50	A 51	A 52	A 52	A 8	W	FT	stals	ter st				
				#	Gr	W	Dr	Sea	So	Ah	Shu	õ	HC	H	õ	BT	d1	Tot	Tot	W	EP	EP	EP	EP	EP	EP	E	C	FI	Me	Filt				
56-3-5		8-2	1232						V																		Ke	V	F						
56-3-65			1935						X																X	1									_
5A - 3 -114	1		BUC	11					Ŭ.																	d	K	1	1						
56 - 3-150			19044	1					X																	11	10	10							_
20 - 1917	1	V	11-11						A			H														-									-
												\square	-																	-				-	_
-				+	-							\vdash																		+	-			+	_
					-	-						H	-				-	+		-	-				-		-		-	+	-			-	-
						-	-	-				+	-			-	+			-				-	-		-	-	-	+	-			-	-
				\square		-	-	-		-	-	\vdash	-			-	-	-		-	-			-			-	-	-	+	-			-+	_
						-	-	-			-	\square					-													-	-	+		\rightarrow	_
						Ļ				Ļ			Ļ.,		L.,		L			L	L			Ļ				L,							_
gloved, open air, sam	ple handling	by MAI st	taff. Non-	disclo	ownt	incur	s an i	mmed	liate S	\$250	surch	argo	e and	the c	lient	is su	bject	to ful	l lega	l liabi	ility fo	or ha	rm su	ffere	d. Th	ank	you fo	or you	ir une	derst	asai	ig and	for all	owing	1
us to work safely.	11		1.00		-		_	_						-	-	-					_														_
Relinquished By:	1	Date:	Time:	D	Rece	sived	Br	1		11	1	4	1	I G	CE/f	DCO	ONDI	TION	1								COM	MEN	TS:						
nut	11	014	9164	W.	/	-	0	U	u	C	0	0	2	H	IEAI	D SP	ACE	ABSE	NT_		-														
Relinquished By:		Date:	'Time:		Rece	eived	By:							D	PPR	ROPE	RINA	E CO	IN L. NTAI	AB_INER	s	-													
D.F. with 1D		Deter	Th		D		Der					_		- P	RES	DERV	LDI	IN LA	в																
Relinquished By:		Date:	Time:		Rece	erved	By:							P	RES	SERV	ATI	ON	DAS	0&	G I	H<2	ALS	OT	HER		HAZ	ARD	OUS:						
										_												_													_

McCampbell Analytical, Inc.

SB-1-7.5

SB-3-7.5



Page 1 of 1

Pittsburg, (925) 252	CA 94565-1701 -9262				W	orkO	rder: 1	308118	3	ClientC	code: Al	EL				
		WaterTrax	WriteOn	EDF	E	xcel	E	EQuIS	✓E	mail	HardC	Сору	ThirdPart	y	_J-fla	g
Report to:						Bil	ll to:					Reque	ested TAT:		5 d	lays
Robert Flory AEI Consulta 2500 Camino Walnut Creek (408) 559-7600	nts Diablo, Ste.#200 x, CA 94597 FAX: (408) 559-7601	Email: cc: PO: ProjectNo:	rflory@aeiconsu #WC084264 #321593; Indiar	ultants.com		Sara GuerinAEI Consultants2500 Camino Diablo, Ste. #200Walnut Creek, CA 94597AccountsPayable@AEIConsultants.co						Received: Printed:	()8/02/2)8/02/2	013 013	
					ſ				Requ	uested Test	s (See le	gend be	elow)			
Lab ID	Client ID		Matrix	Collection Date	Hold	1	2	3	4	5 6	7	8	9	10	11	12
1308118-002	SB-2-7.5		Soil	8/2/2013 10:42		А										
1308118-006	SB-4-7.5		Soil	8/2/2013 11:21		А										

А

А

8/2/2013 12:00

8/2/2013 12:35

Test Legend:

1308118-009

1308118-013

1	8010BMS_S
6	
11	

2	
7	
12	

Soil

Soil

3	
8	

4	
9	

5	
10	

Prepared by: Jena Alfaro

Comments:

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days). Hazardous samples will be returned to client or disposed of at client expense.



Sample Receipt Checklist

Client Name:	AEI Consultants				Date	and	Time Received:	8/2/2013 8	:11:33 PM
Project Name:	#321593; Indian S	prings			Logi	n Rev	viewed by:		Jena Alfaro
WorkOrder N°:	1308118	Matrix: Soil			Carri	er:	Client Drop-In		
		<u>Cha</u>	<u>iin of Cu</u>	istody (C	OC) Inform	ation	l		
Chain of custody	present?		Yes	✓	No 🗌				
Chain of custody	v signed when relinqu	ished and received?	Yes	✓	No				
Chain of custody	agrees with sample	labels?	Yes	✓	No 🗌				
Sample IDs note	d by Client on COC?		Yes	✓	No				
Date and Time o	f collection noted by	Client on COC?	Yes	✓	No 🗌				
Sampler's name	noted on COC?		Yes	✓	No 🗌				
			<u>Sample</u>	Receipt	Information	<u>n</u>			
Custody seals in	tact on shipping cont	ainer/cooler?	Yes		No 🗌			NA 🖌	
Shipping contain	er/cooler in good cor	ndition?	Yes	✓	No 🗌				
Samples in prope	er containers/bottles?	?	Yes	✓	No 🗌				
Sample containe	ers intact?		Yes	✓	No 🗌				
Sufficient sample	e volume for indicated	d test?	Yes	✓	No 🗌				
		Sample Pres	servatio	n and Ho	ld Time (H1	<u>r) Info</u>	ormation		
All samples rece	ived within holding tir	me?	Yes	✓	No				
Container/Temp	Blank temperature		Coole	r Temp:	4.4°C			NA	
Water - VOA vial	ls have zero headspa	ace / no bubbles?	Yes		No 🗌	No	VOA vials submi	tted 🗹	
Sample labels ch	necked for correct pre	eservation?	Yes	✓	No 🗌				
Metal - pH accep	otable upon receipt (p	0H<2)?	Yes		No			NA 🖌	
Samples Receive	ed on Ice?		Yes	✓	No 🗌				
		(Ісе Тур	be: WE	TICE)	1				
* NOTE: If the "N	No" box is checked, s	ee comments below.							

Comments:

	<u>Əll Anal</u> 1 Quality Cou	<u>ytic</u> unts''	<u>al, I</u> :	<u>nc.</u>	1534 Willow F Toll Free Telephor http://www.mccam	Pass Road, ne: (877) 2: pbell.com/	Pittsburg, CA 94565-170 52-9262 / Fax: (925) 252- E-mail: main@mccampbe	1 9269 ell.com	
AEI Consultants		Clie	nt Proj	ect ID:	#321593; Indian	Date S	ampled: 08/02/2	13	
2500 Comine Dichle Ste #20	0	Spri	ngs			Date F	Received: 08/02/2	13	
2500 Camino Diabio, Ste.#200	J	Clie	nt Con	tact: Ro	obert Flory	Date F	Extracted 08/02/2	13	
Walnut Creek, CA 94597		Clie	nt P.O.	: #WC0)84264	Date A	Analyzed 08/06/2	13	
Halogena Extraction Method: SW5030B	ited Volatile	e Org	;anics l Ana	by P&T	' and GC-MS (8010 Ba	asic Tar	•get List)* Work Of	rder: 1308	8118
Lab ID			·		1308118-002A				
Client ID Matrix					SB-2-7.5				
Compound	Concentrati	ion *	DF	Reporting Limit	Compound		Concentration *	DF	Reporting L imit
Bromodichloromethane	ND		1.0	0.005	Bromoform		ND	1.0	0.005
Bromomethane	ND		1.0	0.005	Carbon Tetrachloride		ND	1.0	0.005
Chlorobenzene	ND		1.0	0.005	Chloroethane	ND	1.0	0.005	
Chloroform	ND		1.0	0.005	Chloromethane		ND	1.0	0.005
Dibromochloromethane	ND		1.0	0.005	1,2-Dibromoethane (EDB)		ND	1.0	0.004
1,2-Dichlorobenzene	ND		1.0	0.005	1,3-Dichlorobenzene		ND	1.0	0.005
1,4-Dichlorobenzene	ND		1.0	0.005	Dichlorodifluoromethane		ND	1.0	0.005
1,1-Dichloroethane	ND		1.0	0.005	1,2-Dichloroethane (1,2-DC	CA)	ND	1.0	0.004
1,1-Dichloroethene	ND		1.0	0.005	cis-1,2-Dichloroethene		ND	1.0	0.005
trans-1,2-Dichloroethene	ND		1.0	0.005	1,2-Dichloropropane		ND	1.0	0.005
cis-1,3-Dichloropropene	ND		1.0	0.005	trans-1,3-Dichloropropene		ND	1.0	0.005
Freon 113	ND		1.0	0.1	Methylene chloride		ND	1.0	0.005
1,1,1,2-Tetrachloroethane	ND		1.0	0.005	1,1,2,2-Tetrachloroethane		ND	1.0	0.005
Tetrachloroethene	0.4	0087	1.0	0.005	1,1,1-Trichloroethane		ND	1.0	0.005
1,1,2-Trichloroethane	ND	D 1.0 0.005 Trichloroethene					ND	1.0	0.005
Trichlorofluoromethane	ND		1.0	0.005	Vinyl Chloride		ND	1.0	0.005
			Surr	ogate Re	ecoveries (%)				
%SS1:		95	i		%SS2:		90	1	
%SS3:		92	:						
Comments:									

	<u>Əll Analy</u> Quality Coun	/tical, l uts''	nc.	1534 Willow H Toll Free Telepho http://www.mccam	Pass Road, 1 ne: (877) 25 pbell.com /	Pittsburg, CA 94565-170 52-9262 / Fax: (925) 252- E-mail: main@mccampbo)1 ·9269 ell.com						
AEI Consultants	(Client Proj	ect ID:	#321593; Indian	Date S	ampled: 08/02/	13						
	5	Springs			Date R	Received: 08/02/	13						
2500 Camino Diablo, Ste.#200)	Client Con	tact: Ro	obert Flory	Date E	Extracted 08/02/	13						
Walnut Creek, CA 94597	(Client P.O.	.: #WC0)84264	Date A	Analyzed 08/06/	13						
Halogena	ited Volatile (Organics	by P&T	and GC-MS (8010 Ba	asic Tar	rget List)*							
Extraction Method: SW5030B		Ana	lytical Met	hod: SW8260B		Work O	rder: 1308	8118					
Client ID	<u> </u>			1308118-006A SB-4-7.5									
Matrix				Soil									
Compound	Concentration	n* DF	Reporting Limit	Compound		Concentration *	DF	Reporting Limit					
Bromodichloromethane	ND	1.0	0.005	Bromoform		ND	1.0	0.005					
Bromomethane	ND	1.0	0.005	Carbon Tetrachloride		ND	1.0	0.005					
Chlorobenzene	ND	1.0	0.005	Chloroethane		ND	1.0	0.005					
Chloroform	ND	1.0	0.005	Chloromethane		ND	1.0	0.005					
Dibromochloromethane	ND	1.0	0.005	1,2-Dibromoethane (EDB)		ND	1.0	0.004					
1,2-Dichlorobenzene	ND	1.0	0.005	1,3-Dichlorobenzene		ND	1.0	0.005					
1,4-Dichlorobenzene	ND	1.0	0.005	Dichlorodifluoromethane		ND	1.0	0.005					
1,1-Dichloroethane	ND	1.0	0.005	1,2-Dichloroethane (1,2-DC	CA)	ND	1.0	0.004					
1,1-Dichloroethene	ND	1.0	0.005	cis-1,2-Dichloroethene		ND	1.0	0.005					
trans-1,2-Dichloroethene	ND	1.0	0.005	1,2-Dichloropropane		ND	1.0	0.005					
cis-1,3-Dichloropropene	ND	1.0	0.005	trans-1,3-Dichloropropene		ND	1.0	0.005					
Freon 113	ND	1.0	0.1	Methylene chloride		ND	1.0	0.005					
1,1,1,2-Tetrachloroethane	ND	1.0	0.005	1,1,2,2-Tetrachloroethane		ND	1.0	0.005					
Tetrachloroethene	ND	1.0	0.005	1,1,1-Trichloroethane		ND	1.0	0.005					
1,1,2-Trichloroethane	ND	1.0	0.005	Trichloroethene		ND	1.0	0.005					
Trichlorofluoromethane	ND	1.0	0.005	Vinyl Chloride		ND	1.0	0.005					
		Sur	rogate Re	ecoveries (%)									
%SS1:		94		%SS2: 89									
%SS3:		88											
Comments:													
Trichlorofluoromethane %SS1: %SS3: Comments: * water and vapor samples are reported extracts are reported in mg/L, wipe san	ND	1.0 Sur 94 88 udge/solid sar	0.005 rogate Re	Vinyl Chloride coveries (%) %SS2: ng/kg, product/oil/non-aqueor	ıs liquid s	ND 89 amples and all TCLP	1.0						

	ell Anal a Quality Cou	ytic unts''	cal, I	nc.	1534 Willow H Toll Free Telepho http://www.mccam	Pass Road, 1 ne: (877) 25 obell.com /	Pittsburg, CA 94565-170 52-9262 / Fax: (925) 252- E-mail: main@mccampbe	01 9269 ell.com	
AEI Consultants		Clie	nt Proj	ect ID:	#321593; Indian	Date S	ampled: 08/02/2	13	
2500 Coming Distance #20	0	Spri	ngs			Date R	Received: 08/02/2	13	
2500 Camino Diabio, Ste.#20	0	Clie	nt Con	tact: Ro	obert Flory	Date E	Extracted 08/02/2	13	
Walnut Creek, CA 94597		Clie	nt P.O.	: #WC0	084264	Date A	analyzed 08/06/2	13	
Halogena Extraction Method: SW5030B	ited Volatil	e Org	ganics I Ana	by P&T	and GC-MS (8010 Ba	asic Tar	r get List)* Work Or	rder: 130	8118
Lab ID					1308118-009A				
Client ID					SB-1-7.5				
Matrix				Reporting	Soil				Reporting
Compound	Concentrati	on *	DF	Limit	Concentration *	DF	Limit		
Bromodichloromethane	ND		1.0	0.005	Bromoform		ND	1.0	0.005
Bromomethane	ND		1.0	0.005	Carbon Tetrachloride		ND	1.0	0.005
Chlorobenzene	ND		1.0	0.005	Chloroethane		ND	1.0	0.005
Chloroform	ND		1.0	0.005	Chloromethane		ND	1.0	0.005
Dibromochloromethane	ND		1.0	0.005	1,2-Dibromoethane (EDB)		ND	1.0	0.004
1,2-Dichlorobenzene	ND		1.0	0.005	1,3-Dichlorobenzene		ND	1.0	0.005
1,4-Dichlorobenzene	ND		1.0	0.005	Dichlorodifluoromethane		ND	1.0	0.005
1,1-Dichloroethane	ND		1.0	0.005	1,2-Dichloroethane (1,2-DC	CA)	ND	1.0	0.004
1,1-Dichloroethene	ND		1.0	0.005	cis-1,2-Dichloroethene		ND	1.0	0.005
trans-1,2-Dichloroethene	ND		1.0	0.005	1,2-Dichloropropane		ND	1.0	0.005
cis-1,3-Dichloropropene	ND		1.0	0.005	trans-1,3-Dichloropropene		ND	1.0	0.005
Freon 113	ND		1.0	0.1	Methylene chloride		ND	1.0	0.005
1,1,1,2-Tetrachloroethane	ND		1.0	0.005	1,1,2,2-Tetrachloroethane		ND	1.0	0.005
Tetrachloroethene	ND		1.0	0.005	1,1,1-Trichloroethane		ND	1.0	0.005
1,1,2-Trichloroethane	ND		1.0	0.005	Trichloroethene		ND	1.0	0.005
Trichlorofluoromethane	ND		1.0	0.005	Vinyl Chloride		ND	1.0	0.005
			Sur	rogate Re	ecoveries (%)				
%SS1:		95	i		%SS2:		90		
%SS3:		94	Ļ						
Comments:	·								
* water and vapor samples are reported extracts are reported in mg/L, wipe sar	1 in μg/L, soil/s nples in μg/wit	sludge/ be.	solid san	nples in m	ng/kg, product/oil/non-aqueou	ıs liquid s	amples and all TCLP	& SPLP	

	ell Anal a Quality Cou	ytic nts''	cal, I	nc.	1534 Willow H Toll Free Telepho http://www.mccam	Pass Road, 1 ne: (877) 25 obell.com /	Pittsburg, CA 94565-170 52-9262 / Fax: (925) 252- E-mail: main@mccampbe	9269 ell.com		
AEI Consultants		Clie	nt Proj	ect ID:	#321593; Indian	Date S	ampled: 08/02/2	13		
2500 Coming Distance #20	0	Spri	ngs			Date R	Received: 08/02/2	13		
2500 Camino Diabio, Ste.#20	0	Clie	nt Con	tact: Ro	obert Flory	Date E	Extracted 08/02/2	13		
Walnut Creek, CA 94597		Clie	nt P.O.	: #WC0	084264	Date A	Analyzed 08/06/2	13		
Halogena Extraction Method: SW5030B	nted Volatile	e Org	ganics I Ana	by P&T	and GC-MS (8010 Ba	asic Tar	rget List)* Work Or	rder: 130	8118	
Lab ID				<u>,</u>	1308118-013A					
Client ID					SB-3-7.5					
Matrix				Reporting	Soil				Reporting	
Compound	Concentrati	on *	DF	Limit	Compound	Concentration *	DF	Limit		
Bromodichloromethane	ND		1.0	0.005	Bromoform		ND	1.0	0.005	
Bromomethane	ND		1.0	0.005	Carbon Tetrachloride		ND	1.0	0.005	
Chlorobenzene	ND		1.0	0.005	Chloroethane		ND	1.0	0.005	
Chloroform	ND		1.0	0.005	Chloromethane		ND	1.0	0.005	
Dibromochloromethane	ND		1.0	0.005	1,2-Dibromoethane (EDB)		ND	1.0	0.004	
1,2-Dichlorobenzene	ND		1.0	0.005	1,3-Dichlorobenzene		ND	1.0	0.005	
1,4-Dichlorobenzene	ND		1.0	0.005	Dichlorodifluoromethane		ND	1.0	0.005	
1,1-Dichloroethane	ND		1.0	0.005	1,2-Dichloroethane (1,2-DC	CA)	ND	1.0	0.004	
1,1-Dichloroethene	ND		1.0	0.005	cis-1,2-Dichloroethene		ND	1.0	0.005	
trans-1,2-Dichloroethene	ND		1.0	0.005	1,2-Dichloropropane		ND	1.0	0.005	
cis-1,3-Dichloropropene	ND		1.0	0.005	trans-1,3-Dichloropropene		ND	1.0	0.005	
Freon 113	ND		1.0	0.1	Methylene chloride		ND	1.0	0.005	
1,1,1,2-Tetrachloroethane	ND		1.0	0.005	1,1,2,2-Tetrachloroethane		ND	1.0	0.005	
Tetrachloroethene	ND		1.0	0.005	1,1,1-Trichloroethane		ND	1.0	0.005	
1,1,2-Trichloroethane	ND		1.0	0.005	Trichloroethene		ND	1.0	0.005	
Trichlorofluoromethane	ND		1.0	0.005	Vinyl Chloride		ND	1.0	0.005	
			Suri	rogate Re	ecoveries (%)					
%SS1:		89)		%SS2:		84			
%SS3:		87	,							
Comments:										
Comments: * water and vapor samples are reported in μg/L, soil/sludge/solid samples in mg/kg, product/oil/non-aqueous liquid samples and all TC extracts are reported in mg/L, wipe samples in μg/wipe.										



QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Soil		BatchID: 80108 WorkOrder: 1308118								
EPA Method: SW8260B Extraction: S	W5030B					5	Spiked Sam	ple ID:	1308090-024A	
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	Acc	eptance	Criteria (%)	
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	MS / MSD	RPD	LCS	
Chlorobenzene	ND	0.050	76.8	75.7	1.37	87.3	61 - 108	30	70 - 130	
1,2-Dibromoethane (EDB)	ND	0.050	75.7	74.5	1.53	83.5	54 - 119	30	70 - 130	
1,2-Dichloroethane (1,2-DCA)	ND	0.050	70.8	70.5	0.343	76.9	48 - 115	30	70 - 130	
1,1-Dichloroethene	ND	0.050	76.2	75.6	0.821	73.2	46 - 111	30	70 - 130	
Trichloroethene	ND	0.050	77	77.1	0.0979	104	60 - 116	30	70 - 130	
%SS1:	100	0.82	100	94	6.56	101	70 - 130	30	70 - 130	
%SS2:	96	0.32	92	91	0.985	77	70 - 130	30	70 - 130	
%SS3:	92	0.032	92	92	0	83	70 - 130	30	70 - 130	
All target compounds in the Method Blank of this extraction ba NONE	tch were ND	less than th	e method	RL with th	ne following	g exception	s:			

BATCH 80108 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1308118-002A	08/02/13 10:42 AM 08/02/13		08/06/13 2:58 AM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

Laboratory extraction solvents such as methylene chloride and freon 113 may occasionally appear in the method blank at low levels.

CDPH ELAP 1644 ♦ NELAP 12283CA



QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Soil	BatchID: 80123 WorkOrder: 1308118								
EPA Method: SW8260B Extraction: S	W5030B					5	Spiked Sam	ple ID:	1308118-006A
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	Acc	eptance	Criteria (%)
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	MS / MSD	RPD	LCS
Chlorobenzene	ND	0.050	79.2	78	1.55	84.1	61 - 108	30	70 - 130
1,2-Dibromoethane (EDB)	ND	0.050	75.6	76.5	1.12	85.2	54 - 119	30	70 - 130
1,2-Dichloroethane (1,2-DCA)	ND	0.050	69.3	68.8	0.651	75.7	48 - 115	30	70 - 130
1,1-Dichloroethene	ND	0.050	75.8	76.3	0.602	72.6	46 - 111	30	70 - 130
Trichloroethene	ND	0.050	88.3	94.5	6.73	83.5	60 - 116	30	70 - 130
%SS1:	94	0.82	95	96	1.21	100	70 - 130	30	70 - 130
%SS2:	89	0.32	92	91	0.795	76	70 - 130	30	70 - 130
%SS3:	88	0.032	92	93	0.568	79	70 - 130	30	70 - 130
All target compounds in the Method Blank of this extraction ba NONE	tch were ND	less than th	e method	RL with th	ne following	g exception	IS:		

BATCH 80123 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1308118-006A	08/02/13 11:21 AM	08/02/13	08/06/13 3:36 AM	1308118-009A	08/02/13 12:00 PM	08/02/13	08/06/13 6:47 AM
1308118-013A	08/02/13 12:35 PM	08/02/13	08/06/13 7:25 AM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

Laboratory extraction solvents such as methylene chloride and freon 113 may occasionally appear in the method blank at low levels.

CDPH ELAP 1644 ♦ NELAP 12283CA



McCampbell Analytical, Inc. "When Quality Counts"

Analytical Report

AEI Consultants	Client Project ID: #321593	Date Sampled: 08/02/13
2500 Camino Diablo. Ste #200		Date Received: 08/02/13
	Client Contact: Robert Flory	Date Reported: 08/09/13
Walnut Creek, CA 94597	Client P.O.: #WC084264	Date Completed: 08/07/13

WorkOrder: 1308122

August 09, 2013

Dear Robert:

Enclosed within are:

- 1) The results of the 4 analyzed samples from your project: **#321593**,
- 2) QC data for the above samples, and
- 3) A copy of the chain of custody.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits.

If you have any questions or concerns, please feel free to give me a call. Thank you for choosing

McCampbell Analytical Laboratories for your analytical needs.

Best regards,

Angela Rydelius Laboratory Manager McCampbell Analytical, Inc.

The analytical results relate only to the items tested.

McCampbell Analytical, Inc.														CI	HA	(IN	1.0)F	C	US	TC	D	Y	RE	Cu	QF	R	-1	1						
	1534 Wi	low Pa	iss Rd. /	Pitt	tsbu	g, C	Ca. 9	9456	5-17	701						TU	RN	AR	DUN	DT	IME	C: RI	JSH	2	24	HR [1	48 H	R [72	HR [3	ØA	Y' 矣	-
	vww.mcc	ampb	ell.com	1 / r	nair	@m	1925	2mp	bell	.00	m	~	1	2		Ge	oTra	cker I	EDF[PDF		EDD		Writ	e On	(DW	0	EQ	ulS		1	0 D.A	Y	
	relephic	116. (0)	11 202-	720	271	un.	(120	1 20	12-11	ĺ	3	0	61	L		Eff	luen	t San	nple	Requ	irinş	; "J"	flag		UST	Clea	un Ul	o Fui	nd Pr	oject	;	Clai	m #	•	-
Report To: Rob	COAT F.	Tory			Bil	l To:											_	_		_	_		_	Ana	lysis	Rec	uest		_				_		
Company: A	-	2.7	170		22.22										1			&F)							IN										
Walket	Cne	2E	952	55	7E-1	Mail	R	-6	141	OK	E	i de	rai	ylà	la.	Ca		E/B			ers				01						lysis				
Tele: (925) 7	46-6	000	3	1	Fa	x: ()	10	5						8015)		/ 552(=		ngen		s)		20			602(6020		s ana				
Project #: 30	2159-	3	-		Pr	oject	Nar	ne:		110	~	711	21	/	/	021/		1664	(418.	es)	s/C		oicide	260)	F		NAS	5010	010/	(0)	metal				
Project Location:	aft	slop	19	L	Pu	rcha	se O	rdei	# 6	ve	0	540	NE	7	_	as (8		ase ()	pons	sticid	oclor	ides)	Hert	as (8	6	OCs)	Hs / I	0.8/6	8/6	/ 602	/ED I				
Sampler Signature: SAMPLING MATRIX METT PRESE								SERV		H as G		& Gre	Irocarl	(CI Pe	's; Ar	Pestic	die CI	H as G	60 (NO	70 (SV	(PA)	17/20	7/200	/ 6010	SSOLA										
	PRESI									& 1P	(8015	n Oil	n Hyc	8081	PCB	NP I	l (Aci	& TP	1/82	5/82	/ 831	s (200	(200	200.8	or DIS										
SAMPLE ID	Location/ Field Point			iner	Vater	ater	Wat								2	TBE	iesel	oleur	oleur	608/	8082	814	815	TBE	2 / 62	2 / 62	NIS (Metal	fetals	0.7 /	ple fo				
	Name	Date	Time	onta	V pui	te W.	king	Wate			Se la	-		°	1	NW	as D	Petr	Petr	505/	608 /	201	515/	X/M	524.2	525.2	827(117.1	TSN	ds (20	r sam				
				# C	Grot	Wasi	Drin	Sea	Soil	Air	Slud	Othe	HCL	HNC	Othe	BTE	HAL	Tota	Tota	EPA	EPA	EPA	EPA	BTE	EPA	EPA	EPA	CAN	LUF	Meta	Filte		•		
5.b-1		ste	1215	4	ANA								ľ		1										1										
36-2		TE	1050	4																					R										
56-3		TE	1250	4																		-			K										
56-4		8/2	144	4									1)									-	A										_
	-	7			-								_									-						_				1	_		
							_				_	\square	_															1			_	(_		_
	-					_				_	_	\square	_			-						-								-					
												\parallel	_		_			-				-	-	-		-		-		-			_		
								-		-		\square	_		-	-	-		-	-	-	-	-				-	-		-	-				_
					-			-	-			\mathbb{H}	_		-	-		-		-															_
**MAI clients MUST	disclose any	dangerou	is chemica	ls kn	own t	o be n	reser	t in t	heir s	ubmi	tted s	amp	les i	n con	centi	ratio	s tha	t may	caus	e imi	nedia	te har	m or	serio	us fut	ture h	lealth	enda	ngeri	ment	as a r	esult	of bri	ef,	_
gloved, open air, sam	ple handling	by MAI s	taff. Non-o	disclo	osure	ncurs	s an ii	mmed	liate 5	\$250 s	urch	arge	and	the c	lient	is su	oject	to ful	llega	l liab	ility fo	or hai	rm su	ffered	i. Th	ank y	ou fo	r you	r und	lersta	nding	and	for al	lowin	g
Refinquished By: Date: Time: Received B: Date: 1640						G	CE/f	D CO		TION	NT							(COM	MEN	TS:														
Relinquished by: Date: Time: Received By: DA						ECE PPR RES	ILOI OPR	IATE ED II	TED E CON N LAI	IN LA NTAI B	AB NER	s																							
Relinquished By: Date: Time: Received By: P					VOAS 0&G METALS OTHER HAZARDOUS: PRESERVATIONpH<2						ofo																								

McCampbell Analytical, Inc. SHO 1534 Willow Pass Rd

SB-4

Pittsburg, CA 94565-1701



Page 1 of 1

(925) 252-9262					W	orkO	rder:	1308122		Client	Code: A	EL				
		WaterTrax	WriteOn	EDF	E	cel		EQuIS	√ Ema	ul	□Hard	Сору	ThirdF	'arty	J-fla	ig
Report to:						Bi	ll to:					Requ	lested TAT	:	5 c	lays
Robert Flory AEI Consultants 2500 Camino D Walnut Creek, C (408) 559-7600	s iablo, Ste.#200 CA 94597 FAX: (408) 559-7601	Email: cc: PO: ProjectNo:	rflory@aeiconsu #WC084264 #321593	ltants.com	Bill to:RequestedSara GuerinAEI Consultants2500 Camino Diablo, Ste. #200Date ReceitWalnut Creek, CA 94597Date PrintAccountsPayable@AEIConsultants.coDate Print							e Received e Printed:	<i>l:</i>	08/02/2 08/02/2	2013 2013	
					Γ				Reques	sted Tes	ts (See le	egend k	pelow)			
Lab ID	Client ID		Matrix	Collection Date	Hold	1	2	3	4 ;	5 6	5 7	8	9	10	11	12
1308122-001	SB-1		Water	8/2/2013 12:15		А										
1308122-002	SB-2		Water	8/2/2013 10:50		А										
1308122-003	SB-3		Water	8/2/2013 12:50		А										

8/2/2013 11:44

А

Test Legend:

1308122-004

1	8010BMS_W
6	
11	

2	
7	
12	

Water

З	
8	
	·

4

9

5	
10	

Prepared by: Jena Alfaro

Comments:

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days). Hazardous samples will be returned to client or disposed of at client expense.



Sample Receipt Checklist

Client Name:	AEI Consultants				Date a	and Time Received:	8/2/2013 8:44:31 PM
Project Name:	#321593				LogIn	Reviewed by:	Jena Alfaro
WorkOrder N°:	1308122	Matrix: Water			Carrie	er: <u>Client Drop-In</u>	
		<u>Cha</u>	<u>iin of Cι</u>	<u>ustody (C</u>	OC) Informa	tion	
Chain of custody	present?		Yes	✓	No		
Chain of custody signed when relinquished and received?				✓	No 🗌		
Chain of custody	agrees with sample I	abels?	Yes	✓	No 🗌		
Sample IDs note	d by Client on COC?		Yes	✓	No		
Date and Time o	f collection noted by 0	Client on COC?	Yes	✓	No 🗌		
Sampler's name	noted on COC?		Yes	✓	No 🗌		
			Sample	e Receipt	Information		
Custody seals in	tact on shipping conta	ainer/cooler?	Yes		No 🗌		NA 🔽
Shipping contain	er/cooler in good con	dition?	Yes	✓	No 🗌		
Samples in prope	er containers/bottles?		Yes	✓	No 🗌		
Sample containe	ers intact?		Yes	✓	No 🗌		
Sufficient sample	e volume for indicated	test?	Yes	✓	No 🗌		
		Sample Pres	servatio	<u>n and Ho</u>	<u>ld Time (HT)</u>	Information	
All samples rece	ived within holding tim	ıe?	Yes	✓	No		
Container/Temp	Blank temperature		Coole	er Temp:	4.4°C		
Water - VOA vial	ls have zero headspa	ce / no bubbles?	Yes	✓	No 🗌	No VOA vials subm	itted
Sample labels ch	necked for correct pre	servation?	Yes	✓	No		
Metal - pH accep	otable upon receipt (pl	H<2)?	Yes		No 🗌		NA 🗹
Samples Receive	ed on Ice?		Yes	✓	No 🗌		
		(Ісе Тур	be: WE	TICE)			
* NOTE: If the "N	lo" box is checked, se	ee comments below.					

Comments:

	ell Anal 1 Quality Col	lytic unts''	<u>al, I</u>	<u>nc.</u>	1534 Willow Pass Road, Pittsburg, CA 94565-1701 Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269 http://www.mccampbell.com / E-mail: main@mccampbell.com				
AEI Consultants		Clie	nt Proj	ect ID:	#321593	Date Sampled: 08/02/13			
2500 Comine Dichle Ste #20	0					Date F	Received: 08/02/2	13	
2500 Camino Diabio, Sie.#20	0	Clie	nt Con	tact: Ro	obert Flory	Date E	Extracted 08/06/2	13	
Walnut Creek, CA 94597		Clie	nt P.O.	: #WC0)84264	Date A	Analyzed 08/06/2	13	
Halogena	ted Volatil	e Org	ganics l	by P&T	[and GC-MS (8010 Ba	asic Tai	rget List)*		
Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 130812								8122	
Lab ID Client ID					1308122-001A SB-1				
Matrix					Water				
Compound	Concentrat	ion *	DF	Reporting Limit	Compound		Concentration *	DF	Reporting Limit
Bromodichloromethane	ND		1.0	0.5	Bromoform		ND	1.0	0.5
Bromomethane	ND		1.0	0.5	Carbon Tetrachloride		ND	1.0	0.5
Chlorobenzene	ND	ND		0.5	Chloroethane	ND	1.0	0.5	
Chloroform	ND		1.0	0.5	Chloromethane	ND	1.0	0.5	
Dibromochloromethane	ND		1.0	0.5	1,2-Dibromoethane (EDB)		ND	1.0	0.5
1,2-Dichlorobenzene	ND		1.0	0.5	1,3-Dichlorobenzene		ND	1.0	0.5
1,4-Dichlorobenzene	ND		1.0	0.5	Dichlorodifluoromethane		ND	1.0	0.5
1,1-Dichloroethane	ND		1.0	0.5	1,2-Dichloroethane (1,2-DC	CA)	ND	1.0	0.5
1,1-Dichloroethene	ND		1.0	0.5	cis-1,2-Dichloroethene		ND	1.0	0.5
trans-1,2-Dichloroethene	ND		1.0	0.5	1,2-Dichloropropane		ND	1.0	0.5
cis-1,3-Dichloropropene	ND		1.0	0.5	trans-1,3-Dichloropropene		ND	1.0	0.5
Freon 113	ND		1.0	10	Methylene chloride		ND	1.0	0.5
1,1,1,2-Tetrachloroethane	ND		1.0	0.5	1,1,2,2-Tetrachloroethane		ND	1.0	0.5
Tetrachloroethene	ND		1.0	0.5	1,1,1-Trichloroethane		ND	1.0	0.5
1,1,2-Trichloroethane	ND		1.0	0.5	Trichloroethene		ND	1.0	0.5
Trichlorofluoromethane	ND		1.0	0.5	Vinyl Chloride		ND	1.0	0.5
			Surr	ogate Re	ecoveries (%)				
%SS1:		98	\$		%SS2:		89	'	
%SS3:		89	ı						
Comments:									
* water and vapor samples are reported extracts are reported in mg/L, wipe sat	d in μg/L, soil/ mples in μg/wi	sludge/	/solid sar	nples in r	ng/kg, product/oil/non-aqueo	us liquid :	samples and all TCLP	& SPLF	>

McCampbell Analytical, Inc				<u>nc.</u>	1534 Willow Pass Road, Pittsburg, CA 94565-1701 Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269 http://www.mccampbell.com / E-mail: main@mccampbell.com				
AEI Consultants		Clie	nt Proj	ect ID:	#321593	Date Sampled: 08/02/13			
2500 C						Date Received: 08/02/13			
2500 Camino Diablo, Ste.#20	0	Clie	nt Con	tact: Ro	obert Flory	Date E	Extracted 08/06/1	13	
Walnut Creek, CA 94597		Clie	nt P.O.	: #WC0)84264	Date A	Analyzed 08/06/1	13	
Halogena	ated Volatil	e Org	anics I	by P&T	ն and GC-MS (8010 B։	asic Tai	rget List)*		
Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 1308122								8122	
Lab ID					1308122-002A				
Matrix					Water				
Compound	Concentrati	ion *	DF	Reporting Limit	Compound		Concentration *	DF	Reporting Limit
Bromodichloromethane	ND		1.0	0.5	Bromoform		ND	1.0	0.5
Bromomethane	ND		1.0	0.5	Carbon Tetrachloride		ND	1.0	0.5
Chlorobenzene	ND		1.0	0.5	Chloroethane	ND	1.0	0.5	
Chloroform	ND		1.0	0.5	Chloromethane		ND	1.0	0.5
Dibromochloromethane	ND		1.0	0.5	1,2-Dibromoethane (EDB)		ND	1.0	0.5
1,2-Dichlorobenzene	ND		1.0	0.5	1,3-Dichlorobenzene	ND	1.0	0.5	
1,4-Dichlorobenzene	ND		1.0	0.5	Dichlorodifluoromethane		ND	1.0	0.5
1,1-Dichloroethane	ND		1.0	0.5	1,2-Dichloroethane (1,2-DC	CA)	ND	1.0	0.5
1,1-Dichloroethene	ND		1.0	0.5	cis-1,2-Dichloroethene		6.9	1.0	0.5
trans-1,2-Dichloroethene	ND		1.0	0.5	1,2-Dichloropropane		ND	1.0	0.5
cis-1,3-Dichloropropene	ND		1.0	0.5	trans-1,3-Dichloropropene		ND	1.0	0.5
Freon 113	ND		1.0	10	Methylene chloride		ND	1.0	0.5
1,1,1,2-Tetrachloroethane	ND		1.0	0.5	1,1,2,2-Tetrachloroethane		ND	1.0	0.5
Tetrachloroethene	ND		1.0	0.5	1,1,1-Trichloroethane		ND	1.0	0.5
1,1,2-Trichloroethane	ND		1.0	0.5	Trichloroethene		ND	1.0	0.5
Trichlorofluoromethane	ND		1.0	0.5	Vinyl Chloride		ND	1.0	0.5
			Suri	ogate Re	ecoveries (%)				
%SS1:		97			%SS2:		91		
%SS3:		93							
Comments:									

McCampbell Analytical, In "When Quality Counts"				<u>nc.</u>	1534 Willow Pass Road, Pittsburg, CA 94565-1701 Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269 http://www.mccampbell.com / E-mail: main@mccampbell.com				
AEI Consultants		Clie	nt Proj	ect ID:	#321593	Date Sampled: 08/02/13			
2500 C	0					Date Received: 08/02/13			
2500 Camino Diabio, Ste.#200)	Clie	nt Con	tact: Ro	obert Flory	Date E	Extracted 08/07/1	13	
Walnut Creek, CA 94597		Clie	nt P.O.	: #WC()84264	Date A	Analyzed 08/07/1	13	
Halogena	ited Volatil	e Org	anics l	by P&T	and GC-MS (8010 B	asic Tai	rget List)*		
Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 1308122									8122
Lab ID					1308122-003A				
Matrix					Water				
Compound	Concentrati	ion *	DF	Reporting Limit	Compound		Concentration *	DF	Reporting Limit
Bromodichloromethane	ND		1.0	0.5	Bromoform	ND	1.0	0.5	
Bromomethane	ND		1.0	0.5	Carbon Tetrachloride		ND	1.0	0.5
Chlorobenzene	ND		1.0	0.5	Chloroethane	ND	1.0	0.5	
Chloroform	ND		1.0	0.5	Chloromethane	ND	1.0	0.5	
Dibromochloromethane	ND		1.0	0.5	1,2-Dibromoethane (EDB)		ND	1.0	0.5
1,2-Dichlorobenzene	ND		1.0	0.5	1,3-Dichlorobenzene	ND	1.0	0.5	
1,4-Dichlorobenzene	ND		1.0	0.5	Dichlorodifluoromethane		ND	1.0	0.5
1,1-Dichloroethane	ND		1.0	0.5	1,2-Dichloroethane (1,2-DC	CA)	ND	1.0	0.5
1,1-Dichloroethene	ND		1.0	0.5	cis-1,2-Dichloroethene		ND	1.0	0.5
trans-1,2-Dichloroethene	ND		1.0	0.5	1,2-Dichloropropane		ND	1.0	0.5
cis-1,3-Dichloropropene	ND		1.0	0.5	trans-1,3-Dichloropropene		ND	1.0	0.5
Freon 113	ND		1.0	10	Methylene chloride		ND	1.0	0.5
1,1,1,2-Tetrachloroethane	ND		1.0	0.5	1,1,2,2-Tetrachloroethane		ND	1.0	0.5
Tetrachloroethene	ND		1.0	0.5	1,1,1-Trichloroethane		ND	1.0	0.5
1,1,2-Trichloroethane	ND		1.0	0.5	Trichloroethene		ND	1.0	0.5
Trichlorofluoromethane	ND		1.0	0.5	Vinyl Chloride		ND	1.0	0.5
			Suri	ogate Re	ecoveries (%)				
%SS1:		97			%SS2:		89		
%SS3:		91							
Comments:									

	ell Anal 1 Quality Col	lytic unts''	cal, I	<u>nc.</u>	1534 Willow Pass Road, Pittsburg, CA 94565-1701 Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269 http://www.mccampbell.com / E-mail: main@mccampbell.com				
AEI Consultants		Clie	nt Proj	ect ID:	#321593	Date Sampled: 08/02/13			
2500 Consist Dishing Sta #20						Date Received: 08/02/13			
2500 Camino Diabio, Sie.#20	0	Clie	nt Con	tact: Ro	obert Flory	Date E	Extracted 08/07/1	13	
Walnut Creek, CA 94597		Clie	nt P.O.	: #WC()84264	Date A	analyzed 08/07/1	13	
Halogena	nted Volatil	e Org	ganics l	by P&T	and GC-MS (8010 Ba	asic Tai	rget List)*		
Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 130812								8122	
Lab ID Client ID					1308122-004A				
Matrix					Water				
Compound	Concentrat	ion *	DF	Reporting Limit	Compound		Concentration *	DF	Reporting Limit
Bromodichloromethane	ND		1.0	0.5	Bromoform		ND	1.0	0.5
Bromomethane	ND		1.0	0.5	Carbon Tetrachloride		ND	1.0	0.5
Chlorobenzene	ND		1.0	0.5	Chloroethane	ND	1.0	0.5	
Chloroform	ND		1.0	0.5	Chloromethane		ND	1.0	0.5
Dibromochloromethane	ND		1.0	0.5	1,2-Dibromoethane (EDB)		ND	1.0	0.5
1,2-Dichlorobenzene	ND		1.0	0.5	1,3-Dichlorobenzene		ND	1.0	0.5
1,4-Dichlorobenzene	ND		1.0	0.5	Dichlorodifluoromethane		ND	1.0	0.5
1,1-Dichloroethane	ND		1.0	0.5	1,2-Dichloroethane (1,2-DC	CA)	ND	1.0	0.5
1,1-Dichloroethene	ND		1.0	0.5	cis-1,2-Dichloroethene		ND	1.0	0.5
trans-1,2-Dichloroethene	ND		1.0	0.5	1,2-Dichloropropane		ND	1.0	0.5
cis-1,3-Dichloropropene	ND		1.0	0.5	trans-1,3-Dichloropropene		ND	1.0	0.5
Freon 113	ND		1.0	10	Methylene chloride		ND	1.0	0.5
1,1,1,2-Tetrachloroethane	ND		1.0	0.5	1,1,2,2-Tetrachloroethane		ND	1.0	0.5
Tetrachloroethene	ND		1.0	0.5	1,1,1-Trichloroethane		ND	1.0	0.5
1,1,2-Trichloroethane	ND		1.0	0.5	Trichloroethene		ND	1.0	0.5
Trichlorofluoromethane	ND		1.0	0.5	Vinyl Chloride		ND	1.0	0.5
			Surr	ogate Re	ecoveries (%)				
%SS1:		98	\$		%SS2:		89	'	
%SS3:		90) <u> </u>						
Comments:									
* water and vapor samples are reported extracts are reported in mg/L, wipe sat	d in μg/L, soil/ mples in μg/wi	sludge/	/solid sar	nples in r	ng/kg, product/oil/non-aqueo	us liquid :	samples and all TCLP	& SPLF	>



QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Water	BatchID: 80276 WorkOrder: 1308122					order: 1308122			
EPA Method: SW8260B Extraction: S	PA Method: SW8260B Extraction: SW5030B					Ş	Spiked Sam	ple ID:	1308116-001A
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	Acc	eptance	Criteria (%)
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	MS / MSD	RPD	LCS
Chlorobenzene	ND	20	90.3	93.2	3.16	88.9	70 - 130	20	70 - 130
1,2-Dibromoethane (EDB)	ND	20	99.1	100	1.11	88.8	70 - 130	20	70 - 130
1,2-Dichloroethane (1,2-DCA)	ND	20	92.8	92.4	0.409	83.4	70 - 130	20	70 - 130
1,1-Dichloroethene	ND	20	104	104	0	101	70 - 130	20	70 - 130
Trichloroethene	ND	20	91	92.5	1.67	89	70 - 130	20	70 - 130
%SS1:	97	25	99	96	2.64	96	70 - 130	20	70 - 130
%SS2:	90	25	90	90	0	92	70 - 130	20	70 - 130
%SS3:	91	2.5	92	91	0.358	92	70 - 130	20	70 - 130
All target compounds in the Method Blank of this extraction ba NONE	tch were ND	less than th	e method	RL with th	he following	g exception	s:		

BATCH 80276 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1308122-001A	08/02/13 12:15 PM	08/06/13	08/06/13 2:24 PM	1308122-002A	08/02/13 10:50 AM	08/06/13	08/06/13 11:26 PM
1308122-003A	08/02/13 12:50 PM	08/07/13	08/07/13 12:05 AM	1308122-004A	08/02/13 11:44 AM	08/07/13	08/07/13 12:43 AM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

Laboratory extraction solvents such as methylene chloride and freon 113 may occasionally appear in the method blank at low levels.

AC___QA/QC Officer

CDPH ELAP 1644 ♦ NELAP 12283CA