

Field Sampling Report

2012 CW4CB Task 3

Phase I Sampling

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Submitted to:

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1. Introduction

This report details activities associated with implementation of Clean Watersheds for a Clean Bay (CW4CB) Task 3, Phase I sampling, conducted within the Ettie Street watershed in Oakland and Parr and Lauritzen Channel Watersheds in Richmond, CA. All sampling was conducted between September 27th and October 4th, 2012 by ADH Environmental personnel under the management of Applied Marine Sciences, Inc. (AMS).

2. Field Sampling Report

2.1. Objectives

The objectives of the sampling effort were to collect the following:

1. Sediment samples from up to 42 sites for analysis of PCB congeners, Hg, Total Organic Carbon (TOC), and particle size analysis by ALS Group (ALS).
2. Sediment samples from 10% of the target sites for analysis of field duplicate samples by ALS.
3. Sediment samples from 10% of the target sites for analysis of dioxins, PAHs, PBDEs, and OC pesticides by ALS.
4. Sediment samples from one site for delivery to Kinnetic Laboratories, Inc. (KLI) for analysis of OC pesticide and Hg split samples.

2.2. Personnel

The personnel and work assignments for Phase I sampling are shown in Table 1.

Table 1. Personnel for CW4CB Task 3 Phase I Sampling

Name	Affiliation	Duties
Paul Salop	AMS	Project manager, training for field team personnel
Traci Linder	AMS	Logistics
Lucile Paquette	ADH	Sample collection
Calvin Sandlin	ADH	Sample collection

2.3. Sampling Activities

Sampling activities for Task 3 Phase I sampling conducted within the Ettie watershed are summarized in Table 2. For the four inlet sites sampled within the Ettie Street watershed, City of Oakland personnel supported sampling efforts by providing traffic control and removing and replacing inlet grates. None of the samples collected within the Parr and Lauritzen Channel watersheds were collected from within the drop inlets, and therefore sampling personnel were able to operate independently throughout this sampling.

Table 2. Sampling Activities for CW4CB Task 3 Phase I Sampling

SiteCode	Site Description	Date	Lat	Long	Comments
ETT2	Cole Bros, 1797 12th St, along curb	10/2/12	37.81247	-122.30029	
ETT2a	Nautical Engineering, 1790 11th St	10/2/12	37.81176	-122.30064	

SiteCode	Site Description	Date	Lat	Long	Comments
ETT8a	ISSA Trucking; 1639 18th St	10/2/12	37.81438	-122.29249	
ETT29	Precision Casting; near 32nd and Hannah, on Hannah side	9/28/12	37.82326	-122.28675	
ETT29a	Precision Casting; near 32nd and Hannah, on 32nd side	9/28/12	37.82317	-122.28660	
ETT56	2838 Hannah St, near former driveway	9/28/12	37.82272	-122.28700	
ETT57	2838 Hannah St, adjacent to chain link fence	9/28/12	37.82116	-122.28620	Insufficient soil - no sample taken
ETT58	Vacant lot, directly across street from 2857 Hannah	9/28/12	37.82291	-122.28653	
ETT63	AMG - 3434 Helen St, southern portion of property	10/1/12	37.82639	-122.28638	Insufficient soil - no sample taken
ETT64-65	AMG - 3434 Helen St, northern portion of property	10/1/12	37.82583	-122.28639	Insufficient soil - no sample taken
ETT66	Drop inlet north end of Helen St	10/1/12	37.82640	-122.28662	Inlet
ETT84	CASS West - between 26th and 28th	9/28/12	37.81889	-122.28805	
ETT84b	CASS East Facility, along Union St, between 26th and 28th, at westernmost driveway	9/28/12	37.81985	-122.28493	
ETT84c	CASS north, along Peralta St	9/28/12	37.81987	-122.28490	Insufficient soil - no sample taken
ETT84d	CASS north, along Poplar, east of 28th, adjacent to blue wall	9/28/12	37.82172	-122.28519	
ETT84f	CASS East, along Poplar St	10/2/12	37.82061	-122.28555	Inlet
ETT85	CASS Central, along Poplar St, in front of mural	10/1/12	37.82069	-122.28558	
ETT85a	CASS Central - along Union, SW corner of Peralta & Hannah	10/2/12	37.82090	-122.28643	
ETT85b	NW corner Poplar & 26th, future tree well installation area	10/1/12	37.81938	-122.28612	
ETT121	Granite Expo - NE Corner of Wood St & 34th	9/27/12	37.82465	-122.29043	
ETT121a	CA Waste Solutions - 3300 Wood St, both sides of driveway	9/27/12	37.82418	-122.29042	
ETT121b	Illegal dumping site just south of ETT121a	9/27/12	37.82355	-122.29024	
ETT122	Granite Expo - 3430 Wood St, driveway along Wood St	9/27/12	37.82552	-122.29101	
ETT122a	North of Granite Expo - 3430 Wood St, on abandoned RR ROW	9/27/12	37.82536	-122.29100	
ETT122b	Dumping areas north of Granite Expo - 3430 Wood St	9/27/12	37.82563	-122.29101	
ETT123	Driveway entrance to Dan's Salvage, 3520 Harlan St	10/1/12	37.82696	-122.28209	
ETT123a	Inlet at Dan's Salvage, 3520 Harlan St	10/1/12	37.82663	-122.28201	Inlet
ETT124	Inlet, NW corner Poplar & 26th	10/1/12	37.81951	-122.28607	Inlet
LAU-01	Simms - West (600 South Fourth St)	10/3/12	37.92426	-122.36578	
LAU-02	S. 2nd, 1 block N of Cutting; 427 S 2nd	10/3/12	37.92646	-122.36809	
LAU-03	Rickert property; Cutting & 2nd, on 2nd St side (445 S. 2nd)	10/3/12	37.92559	-122.36807	
LAU-04	Rickert property; Cutting and 2nd, on Cutting side (135 Cutting)	10/3/12	37.92542	-122.36829	
LAU-05	PG&E lot (444 S 1st St; Cutting @ 1st)	10/3/12	37.92557	-122.36907	
LAU-06	PG&E (432 S. 1st St)	10/3/12	37.92664	-122.36912	
PAR-01	Marina North (939 Marina Way South); empty lot; 1st RR crossing south of Wright, across from Kaiser	10/4/12	37.91955	-122.35605	
PAR-02	Marina - South; same empty lot as PAR-01, about 100m south of PAR-01	10/4/12	37.91813	-122.35579	
PAR-03	Ford - North; near south end of Harbour. East side of street, in front of black chain link fence, near entrance to boiler house restaurant	10/4/12	37.91236	-122.35937	
PAR-04	Cal-Oils - North (1145 Harbour Way S); driveway just north of RR tracks	10/4/12	37.91703	-122.36024	
PAR-05	Cal-Oils - South; Large driveway before yellow RR sign on W side of Harbour	10/4/12	37.91750	-122.36045	

SiteCode	Site Description	Date	Lat	Long	Comments
PAR-06	Simms - south (803 Wright Ave), just W of 1st RR tracks on N side of Wright	10/4/12	37.92125	-122.36226	
PAR-07	Simms - south (799 Wright Ave, just W of Gate 6E)	10/4/12	37.92131	-122.36306	
PAR-08	Simms - north (600 Hoffman Blvd); Park at dead end road, 6th St, sampling site directly across Hoffman	10/4/12	37.92397	-122.36330	

Per the programmatic SAP, field duplicates were collected for analysis at a minimum of ten percent of sites sampled. Similarly, samples for analyses of OC pesticides, PAHs, PBDEs, and dioxins were also collected at ten percent of sites. In addition, a split sample from one location, ETT122a, was transferred from AMS to KLI for analysis of mercury and OC pesticides by laboratories employed by the KLI team, SCL and ATL. Samples collected by site are shown in Table 3.

Table 3. Summary of Requested Laboratory Analyses for CW4CB Task 3 Phase I Sampling

SiteCode	PCBs, Hg, TOC, Part. Size	FD, PCBs	FD, Hg, TOC, Part. Size	Dx, OCPs, PAHs, PBDEs	Split (Hg & OCPs)
ETT2	x				
ETT2a	x				
ETT8a	x			x	
ETT29	x				
ETT29a	x				
ETT56	x				
ETT58	x	x		x	
ETT66	x				
ETT84	x				
ETT84b	x				
ETT84d	x				
ETT84f	x				
ETT85	x				
ETT85a	x	x	x		
ETT85b	x				
ETT121	x				
ETT121a	x				
ETT121b	x				
ETT122	x				
ETT122a	x		x	x	x
ETT122b	x				
ETT123	x	x	x		
ETT123a	x				
ETT124	x				
LAU-01	x				
LAU-02	x	x	x		
LAU-03	x				
LAU-04	x				
LAU-05	x				
LAU-06	x				
PAR-01	x				
PAR-02	x				

SiteCode	PCBs, Hg, TOC, Part. Size	FD, PCBs	FD, Hg, TOC, Part. Size	Dx, OCPs, PAHs, PBDEs	Split (Hg & OCPs)
PAR-03	x				
PAR-04	x				
PAR-05	x			x	
PAR-06	x				
PAR-07	x				
PAR-08	x				
Total	38	4	4	4	1

2.4. Sample Handling

All sample containers were supplied by ALS. The containers used and sample handling implemented for Task 3 Phase I are summarized in Table 4.

Table 4. Sample Handling for CW4CB Task 3 Phase I Sampling.

Analysis	Container	Handling Requirements
Particle Size	Ziploc bag	Place on wet ice.
PCBs	8 oz glass	Place on wet ice.
Hg, TOC	8 oz glass	Place on wet ice.
Archive	8 oz glass	Place on wet ice.
PCBs, Dx	8 oz glass	Freeze on dry ice (only for 10% sites where additional analyses performed)
PBDE, OCP, PAH	8 oz glass	Place on wet ice.

2.5. Sample Labeling

The sample ID labeling system used is as follows:

WWW-S-NNN-##

Where:

WWW = Watershed
 S = Media (S for soil)
 NNN = Site number
 ## = Unique ID number

The photo ID labeling system used is as follows:

WWW-P-NNN-##

Where:

WWW	=	Watershed
P	=	Media (P for photo)
NN	=	Site number, identical to those used for sample ID
##	=	Unique ID number

2.6. Discussion

Representatives from the PMT met with AMS personnel in advance of sampling to review the viability of potential sampling sites and identify specific locations within each identified site for sample collection. On September 24th, Paul Salop of AMS conducted a site visit to proposed Ettie sampling sites with Becky Tuden from the City of Oakland and Adrienne Miller and Matt Freiberg of Geosyntec Consultants. Of those sites targeted for sampling during the reconnaissance, four sites were not sampled due to a lack of a sufficient volume of soil present during subsequent sampling operations, likely due to extensive street and sidewalk cleaning conducting between time of the survey and sampling by respective property owners.

On September 28th, Mr. Salop met with Joanne Le and Lynne Scarpa of the City of Richmond and Khalil Abu-Saba of Brown and Caldwell to perform site visits within the Lauritzen and Parr watersheds. A total of fourteen sites were identified for sampling, six within the Lauritzen watershed and eight within the Parr watershed. All sites were sampled as planned.