



Santa Monica Malibu Schools

Santa Monica-Malibu Unified School District

1651 Sixteenth Street • Santa Monica, California 90404 • 310.450.8338

School or Office Location 82000 Superintendent's Office **Contract No.** UC 14050
Account Number 25-90100-0-00000-8000-5890-050-1500 **Vendor No.** 20834
Resource Capital Facility Fund **Board Action Date** 11/7/13
(Resource Description: SIP Title 1, EIA)

Previous or Continuing Contract? ☐ Yes ☒ No

THIS AGREEMENT is entered into this 1st Day of July, 2012 between

Mark Katchen

Name

The Phylmar Group, Inc.

Company Name

10573 West Pico Blvd., #194

Address

310-474-3937

Phone

Cell Phone

Company contact if different from above: In addition

Name

Social Security Number

95-4652949

Tax ID Number

Los Angeles

CA

90064

City

State

Zip

310-446-1826

FAX

mkatchen@phylmar.com

Email Address

Cell Phone:

Email:

Phone (Indicate if cell or office number)

hereinafter referred to as the Contractor, and the Santa Monica-Malibu Unified School District of Los Angeles County, hereinafter referred to as the District.

WITNESSETH:

WHEREAS the District is authorized by Government Code Section 53069 to contract with and employ an independent contractor specially trained to perform special services required; and WHEREAS the Contractor is specially trained and experienced and competent to perform the special services pursuant to this agreement; The parties hereto contract and agree as follows:

- PERIOD OF AGREEMENT** shall be from October 1, 2013 to June 30, 2014
unless sooner terminated in accordance with paragraph 16 of this agreement.
- CONTRACTOR DUTIES:** Shall be as set forth in the attached proposal.
- PAYMENT BY THE DISTRICT:** The District shall pay the Contractor at the rate of _____ per
not to exceed a total of \$25,000

- 4 **AUTHORIZED EXPENSES:** ☐ No Expenses authorized ☐ Hotel and Meals
☐ Transportation ☐ Other as specified in attached proposal
Reimbursements not to exceed District Conference and Travel Policy 3351 rates (see Attachment 1)

5 **TOTAL COMPENSATION & INVOICING:**

Total compensation under this contract not to exceed \$

The Contractor shall submit an invoice to the authorized District representative, on a form furnished by the District, certifying that he/she has personally performed the services required (invoice must state contract number).

☒ monthly ☐ upon completion of services

The Contractor shall assume all expenses, including but not limited to travel expenses, incurred by him/her in performance under this contract, unless authorized in #4 above.

- 6 **LIABILITY:** The District shall not be liable to the Contractor for personal injury or property damage sustained by the contractor in the performance of this contract whether caused by the District, its employees or pupils, or by any third persons. The District is not responsible for any property left or placed by Contractor on the District's premises.

- 7 **INDEPENDENT CONTRACTOR NOT AN OFFICER, EMPLOYEE OR AGENT OF DISTRICT:** While engaged in performance of this contract, the Contractor is an independent contractor and is not an officer, employee or agent of the District.

- 8 **INDEMNIFICATION:** Contractor shall defend, indemnify and hold harmless the District, its officers, agents, employees, elected and appointed officials, students and volunteers from and against any and all claims, liability, loss, damage, expense, costs (including without limited costs and attorney fees of litigation) of every nature arising out of or in connection with Contractor's performance of work hereunder or its failure to comply with any current or prospective law, except for such loss or damage which was caused by the sole negligence or willful misconduct of District.

9 **INSURANCE:**

☒ **General Liability** Expiration Date: _____

During the entire term of this contract and any extension or modification thereof, Contractor shall maintain insurance or a program of self-insurance acceptable to the District in its sole discretion, providing general liability insurance to cover Contractor's activities with a minimum Combined Single Limit for bodily injury, personal injury and property damage as required:

- ☐ General Liability shall include Sexual Molestation Defense Liability
☐ \$1,000,000.00
☐ \$5,000,000.00
☐ Other: _____

☐ **Professional Liability/Errors and Omissions** During the entire term of this contract and any extension or modification thereof, Contractor shall maintain insurance acceptable to the District in its sole discretion, to cover Contractor's activities with a minimum Combined Single Limit of \$1,000,000.00.

☐ **Automotive (Owned and Non-owned)**

During the entire term of this contract and any extension or modification thereof, Contractor shall maintain insurance acceptable to the District in its sole discretion, to cover Contractor's activities with a minimum Combined Single Limit for automobile operations, bodily injury, personal injury and property damage as required by District:

- ☐ \$1,000,000.00
☐ \$5,000,000.00
☐ Other: _____

9 **INSURANCE, continued**

No later than the effective date of this contract, Contractor shall provide District with a Certificate of Insurance and an original endorsement naming the District, its governing board, employees and volunteers as additional insured on all required policies including:

1. A provision for thirty (30) calendar days written notice to the District before cancellation, suspension, or reduction in coverage or limits.
2. The certificate shall also provide that the District's self-insurance and insurance programs shall be non-contributory.
3. Insurance Certificate shall state the services and site which the insurance coverage is for.

☐ **Worker's Compensation**

Contractor agrees to carry worker's compensation insurance acceptable to the District in its sole discretion at a limit determined by the Labor code of the State of California and Employer's Liability insurance in the amount of \$1 million of its current limit of each, whichever is greater. Proof of such coverage will be furnished by Contractor prior to the commencement of this agreement.

10 **OTHER REQUIREMENTS:**

- ☐ TB Testing Date Tested: N/A
☐ Fingerprinting

- 11 **ASSIGNMENT OF CONTRACT:** Contractor shall not assign, transfer or subcontract any of its rights, burdens, duties or obligations under this agreement without prior permission of the District.
- 12 **AMERICANS WITH DISABILITIES ACT:** It is the policy of the District to comply with all relevant and applicable provisions of the Americans with Disabilities Act. All organizations/individuals providing services under contract to the District must agree to provide services in a nondiscriminatory manner consistent with the Americans with Disabilities Act.
- 13 **ANTI-DISCRIMINATION:** The Governing Board of the Santa Monica-Malibu Unified School District has adopted an Affirmative Action Program for equal employment opportunities of all school district contracts. The Contractor shall familiarize himself with these requirements and is to consider them as a binding part of the contract.
- 14 **LAWS-ADHERENCE TO ALL LOCAL, STATE, FEDERAL REQUIREMENTS:** The Contractor shall adhere to all applicable federal, state and local laws, codes and ordinances, including but not limited to those promulgated by CAL-OSHA, FED-OSHA, EPA, the California State Department of Health Services and Cities of Malibu and Santa Monica Health Departments.
- 15 **SMOKE-FREE WORK PLACE:** The District has declared that it is in the best interest of the District, its students and employees, and the public, to prohibit the use of tobacco product within all District facilities, on all exterior grounds when pupils are on site and in all District vehicles (BP4250). Contractors are therefore not permitted to smoke while on District property.
- 16 **TERMINATION OF CONTRACT:** The District may terminate this contract at any time for any reason including, but not limited to, loss of funding for the contract. The termination of contract shall be in writing, with 24 hours notice. The District shall compensate the Contractor for work or services performed through the date of the termination.
- 17 **PREVAILING WAGES:** The Contractor and any subcontractor shall pay not less than the specified prevailing rates of wages to all workers employed by them in the execution of the contract as required by law.

21 **HEADSTART PROJECT REQUIREMENT/REGULATION:** Los Angeles County office of Education Contract for Operation of Head Start/Early Head Start Program (C:12243;11:12). 17. ACCESS TO RECORDS/SITES. LACOE, HHS, the Comptroller General of the United States, or any of their duly authorized representatives, including any LACOE monitor or independent auditors, shall have the right to immediate, unannounced and unrestricted access to any Early Head Start/Head Start/State Preschool books, documents, papers, classrooms and records of the DA or any other related documents associated with these programs or its transactions or which may affect the program operations whether funded by these programs or by other funds held by the agency, or a contractor, sub-contractor or financial institution, etc., of the DA when such records are determined by any of them to be pertinent to the project for the purpose of making audits, examinations, photocopies, excerpts or transcripts. Such access shall be granted by the DA, and any contractor employed by the DA, at such reasonable times as may be determined by the parties as specified herein. This right to access exists as long as the records are retained, which may exceed the required retention period or term of this contract.

22 **POST RETIRMENT EARNINGS:** I have read, understand and will comply with Employing CalSTRS, Education Code 22461, and CalPERS, Government Code 21220, for retirees working as an independent contractor or as an employee of a third party. Is/are there any employees providing services who are current/prior members of CalSTRS or CalPERS? ☐ Yes, _____ CalSTRS _____ CalPERS, or ☒ No

If yes, company will provide an excel spreadsheet at time of invoicing with the following information:

CalSTRS / CalPERS Employee Name	Social Security Number	Accrual Period Worked	Hourly Pay Rate	Hours Worked and Paid	Amount Earned
------------------------------------	---------------------------	--------------------------	--------------------	--------------------------	------------------

WITNESS the parties hereto the day and year first above written.

Santa Monica-Malibu Unified School District
1651 Sixteenth Street
Santa Monica CA 90404

BY:

Mark Katchen

Digitally signed by Mark Katchen
DN: cn=Mark Katchen, o=The Plym Group, Inc., ou,
email=markkatchen@plym.com, c=US
Date: 2013.10.28 12:54:55 -0700

Contractor

Sponsoring Administrator

Mark Katchen

Printed Name

Title

October 28, 2013

Date

Date

Approval

Assistant Supt. Business/Fiscal Services

Purchasing Director

Date

Date

NOTE: THIS CONTRACT IS NOT VALID UNLESS IT IS SUPPORTED BY A BOARD ACTION

☐ Addendum Attached for contract modifications.

☐ Waiver/Confirmation of Testing

☐ Hold Harmless Agreement

- 18 **TAXES:** Contractor shall be liable and solely responsible for paying all required taxes and other obligations, including, but not limited to federal and state income taxes and social security taxes payable in connection with this contract. Contractor agrees to indemnify, defend and hold the District harmless from and against any worker's compensation or other tax liability which the District may incur to any Federal or State governments with jurisdiction as a consequence of this contract. All payment made to contractor shall be reported to the Internal Revenue Service.

WITNESS the parties hereto the day and year first above written.


Santa Monica-Malibu Unified School District
1651 Sixteenth Street
Santa Monica CA 90404

BY:


Contractor

Mark Katchen

Printed Name


Sponsoring Administrator

Associate Supt., CFO
Title

10-17-13
Date

10/22/13
Date

Approval


Assistant Supt. Business/Fiscal Services

Purchasing Director

10/22/13
Date

Date


NOTE: THIS CONTRACT IS NOT VALID UNLESS IT IS SUPPORTED BY A BOARD ACTION

☐ Addendum Attached for contract modifications.

Attachment Form – Independent Contract

Per item 5 of Contract Procedures, the following shall be attached and submitted with the contract:

1. **Objective of contract: (Outcome of the contracted services)**
 - To provide coordination of environmental testing, reporting, and communication with staff, parents, and the community regarding environmental concerns at Malibu High School.
2. **Contractor's requirement by the District to fulfill the contract and the milestones to complete the contract either listed by date or deliverable(s). (Detailed contract services to be attached or stated below)**
 -
3. **Payable schedule** _____ **Check here if not submitted by contractor**
 -
4. **Why can the contract not be done using in-house staff?**
 -
5. **Financial Impact Statement: Is there any additional funding required as outcome of this contract?**
_____ No _____ Yes **If yes, please state estimated cost and program requirements.**
6. **I certify that I am in compliance with funding source requirements**


Signature _____
Sandra Lyon
Printed Name Jane Maelz
Superintendent
Title Assoc. Supt., CFO

10/24/13
Dated _____

(If Federal funding is being used, the services must include language for NCLB. Please procedures for list of clause that can be used for this purpose.

Independent Contractor: Waiver / Confirmation of Testing

Request for Waiver

Request for Confirmation of Testing

Contractor's Name:
The Phylmar Group, Inc.

Contract No: UC14050

Submitted By:
Diana Kamibayashi

Date: 10-23-13

School Site:
District Office – Superintendent's Office

Phone:
310-450-8338 x70240

Waiver of Insurance Requirements
(A Hold Harmless form must be signed before processing payment)

Waiver Declined: ☐

Janece L. Maez
Janece L. Maez, Asst. Supt., Business & Fiscal Services, CFO

10/24/13
Date

X

Waiver of Fingerprinting Requirements

Waiver Declined: ☐

X

Waiver of T/B Testing

Waiver Declined: ☐

Debra Moore Washington
Debra Moore Washington, Asst. Supt., Human Resources

10-25-13
Date

Reason Waiver is being requested:

Confirmation of Testing:

 Fingerprinting requirements have been met and cleared.

 T/B Testing has been done and requirements have been met.

Debra Moore Washington
Debra Moore Washington, Asst. Supt., Human Resources

10-25-13
Date

Please return this completed contract waiver with approval signatures and contract to the Purchasing Office.
SMMUSD.ICWC8/08

Kamibayashi, Diana

From: Mark Katchen <mkatchen@phylmar.com>
Sent: Monday, October 21, 2013 9:08 AM
To: Kamibayashi, Diana
Subject: Contract Addendum

Diana, thanks for including the following language in the contract addendum:

As full consideration for the performance of the Scope of Services described herein, the Client shall pay Consultant the compensation provided in the agreement in accordance with applicable charges. Consultant shall submit progress invoices to the Client showing the services performed during the invoice period and the charges incurred in the performance of said services. If the project is not completed for reasons outside of the control of Consultant or its subcontractor, the Client will be responsible for payment of the entire project management portion of the fee and the portion of the fee associated with the completed scope of work once the work is authorized. Invoices are to be submitted, twice monthly, or at the end of the project, whichever occurs sooner to the Client: Client shall pay Consultant the full amount of the invoice within thirty (30) days of receipt of invoice for services. If however, the Client objects to all or any portion of any Invoice, Client shall so notify Consultant in writing of same within ten (10) days from date of receipt of invoice and shall pay that portion of the invoice not in dispute within thirty (30) days of receipt of payment from Client. The Client and Consultant shall immediately make every effort to settle the disputed portion of the Invoice.

Consultant bills are payable upon receipt. Consultant may assess a rebilling fee of \$75.00 plus 1.5 percent per month for any undisputed amounts not paid within 30 days of the billing date. Consultant reserves the right to suspend work, including the withholding of work products, until all past due payments have been received.

Best regards,

Mark

Mark Katchen, CIH
Managing Principal
The Phylmar Group, Inc.
310-474-3937
310-446-1826 (fax)
www.phylmar.com

Empowering Communities of Environmental Health and Safety/Sustainability Professionals



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CERTIFICATE OF LIABILITY INSURANCE

OP ID: IQ

DATE (MM/DD/YYYY)

10/18/13

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER 202-263-4000
Hays Affinity Solutions 202-263-4001
1133 20th St. N.W., Suite 450
Washington, DC 20036
Barry F. Peters

CONTACT NAME:
PHONE
(A/C, No, Ext): **FAX**
(A/C, No):
E-MAIL
ADDRESS:
PRODUCER
CUSTOMER ID #: THEPH-2

INSURED The Phylmar Group, Inc.
Mr. Mark A. Katchen
2342 Manning Avenue
Los Angeles, CA 90064

INSURER(S) AFFORDING COVERAGE

NAIC #

INSURER A: Lloyds of London

INSURER B: Hartford Casualty Company

29424

INSURER C:

INSURER D:

INSURER E:

INSURER F:

COVERAGES**CERTIFICATE NUMBER:****REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL SUBR INSR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
B	GENERAL LIABILITY <input type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR <input checked="" type="checkbox"/> Business Liab		42SBABV5421	09/01/13	09/01/14	EACH OCCURRENCE \$ 2,000,000 DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 1,000,000 MED EXP (Any one person) \$ 10,000 PERSONAL & ADV INJURY \$ 2,000,000 GENERAL AGGREGATE \$ 4,000,000 PRODUCTS - COMPROP AGG \$ 4,000,000
B	AUTOMOBILE LIABILITY <input type="checkbox"/> ANY AUTO <input type="checkbox"/> ALL OWNED AUTOS <input type="checkbox"/> SCHEDULED AUTOS <input checked="" type="checkbox"/> HIRED AUTOS <input checked="" type="checkbox"/> NON-OWNED AUTOS		42 SBA BV5421	09/01/13	09/01/14	COMBINED SINGLE LIMIT (Ea accident) \$ 2,000,000 BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$ \$ \$
B	<input checked="" type="checkbox"/> UMBRELLA LIAB <input checked="" type="checkbox"/> OCCUR <input type="checkbox"/> EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE DEDUCTIBLE <input checked="" type="checkbox"/> RETENTION \$ 10,000		42SBABV5421	09/01/13	09/01/14	EACH OCCURRENCE \$ 2,000,000 AGGREGATE \$ 2,000,000 \$ \$
	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below	Y/N <input type="checkbox"/> N/A				WC STATU- TORY LIMITS OTH- ER E.L. EACH ACCIDENT \$ E.L. DISEASE - EA EMPLOYEE \$ E.L. DISEASE - POLICY LIMIT \$
A	Professional (E&O) Liability		AIHA0013011	10/01/13	10/01/14	Per Claim 2,000,000 Aggregate 2,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (Attach ACORD 101, Additional Remarks Schedule, if more space is required)
Santa Monica-Malibu Unified School District is an additional insured with respects to the General Liability coverage.

CERTIFICATE HOLDER**CANCELLATION**

SANTAM-

Santa Monica-Malibu Unified
School District
1651 Sixteenth Street
Santa Monica, CA 90404

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

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NOTEPAD

INSURED'S NAME **The Phylmar Group, Inc.**

THEPH-2
OP ID: IQ

PAGE 2
DATE 10/18/13

A) Mold Sublimit For Professional Liability Only: \$100,000 (Aggregate)



Santa Monica Malibu Schools

SANTA MONICA-MALIBU UNIFIED SCHOOL DISTRICT REQUEST FOR BOARD APPROVAL OF CONTRACT CONTRACT NUMBER: UC 14 050

(Note: Obtain Contract Number from Diane Hernandez in Fiscal Services)

I. CONTRACTOR:

Name The Philmar Group, Inc. Tax ID. 95-4652949
Address 19573 Dinwiddie Pico Blvd #194 Soc. Sec. # 310.474.3937
Los Angeles, CA Telephone # 90064
Is this contractor employed by the District in any other position? NO
If yes, please state the position: _____

Background Information:

To provide coordination of environmental testing, reporting, and communication w/ staff, parents, & community regarding environmental concern @ Malibu H.S.

II. SERVICES TO BE RENDERED:

Description: _____

Dates of Service: From 10/1/12 To 6/30/14 Location 050

III. BOARD APPROVAL DATE:

11-7-13

IV. COMPENSATION:

- Fee: \$ _____ Per _____ Not to exceed \$ 25,000.-
- Authorized Expenses:
_____ No expenses authorized _____ Transportation
_____ Hotel and Meals _____ Other (Specify) _____
- TOTAL compensation under this contract not to exceed \$ 25,000.-

V. PAYMENT SCHEDULE:

Payment will be made on the 10th of the month following service,
provided all paperwork is in place.

82000

VI. FUNDING:

25-90100-0-00000-8000-5890-050-1500

(Account Number)

Resource:

Capital Facility Fund

(Resource Description i.e. SIP, Title I, EIA)

VII. ADMINISTRATOR:

Name Janece D. May
Sch/Dept Supt. Office
Signature Janece May

Date: 10/22/13

This completed form should be sent to Educational Services,
Attention: Karen Dahlem for submission at the next Board meeting.

OFFICE USE ONLY:

Date sent to Educational Services: _____

Sent by: _____

TO: BOARD OF EDUCATION

ACTION/CONSENT

11/07/13

FROM: SANDRA LYON / TERRY DELORIA / JANECE L. MAEZ / STUART SAM

RE: APPROVAL OF INDEPENDENT CONTRACTORS

RECOMMENDATION NO. A.02

It is recommended that the Board of Education enter into an agreement with the following Independent Contractors. These contracts are included in the 2013-2014 budget.

Contractor/ Contract Dates	Description	Site	Funding (Measure BB)
NONE			

Contractor/ Contract Dates	Description	Site	Funding
Family Services of Santa Monica 10/18/13 to 06/10/14 Not to exceed \$3,000	Provide counseling services to students K-2	Roosevelt	01-90150-0-11100- 10000-2917-007-1501 (PTA)
Santa Monica Academy of Music (Darren Gravelle) 9/2013 to 6/2014 Not to exceed: \$7,200	Gift contractor - Music classes for K - 2nd	McKinley	01-90150-0-11100- 10000-5802-004-4040
The Phylmar Group, Inc. 10/1/13 to 6/30/14 Not to exceed: \$164,150 (\$25,000: coordination fee; \$139,150: implementation fee)	1) To provide coordination of environmental testing, reporting, and communication with staff, parents, and community regarding environment concern at Malibu High School. 2) Implementation of the Initial Environmental Sampling Plan	District	25-90100-0-0000- 82000-589-050-1500 (Capital Facility Fund)
American Fidelity Administrative Services 11/1/13 to 6/30/14 Not to exceed: \$9,000	Healthcare reform consulting implementation	Human Resources	01-00000-0-00000- 74000-5802-025-1250

MOTION MADE BY: Mr. Mechur

SECONDED BY: Dr. Escarce

STUDENT ADVISORY VOTE: N/A

AYES: All (7)

NOES: None (0)

ADDENDUM FOR CONTRACT MODIFICATIONS
The contract shall be modified as follows:

Contract # UC14050

Vendor: The Phylmar Group, Inc.

Addendum Change:

Contract Amount:

Not to exceed \$260,850 submitted for Board approval as 1st amendment on January 16, 2014.

The Phylmar Group, Inc.
10573 West Pico Blvd, #194
Los Angeles, CA 90064



Contractor

Mark Katchen
The Phylmar Group, Inc.

Printed Name

December 19, 2013

Date

Santa Monica-Malibu Unified School District
1651 Sixteenth Street
Santa Monica CA 90404

BY:



Sponsoring Administrator

Janece L. Maez
Assistant Superintendent Business/Fiscal Services
Chief Financial Officer

Title

December 19, 2013

Date

TO: BOARD OF EDUCATION

ACTION/CONSENT

01/16/14

FROM: SANDRA LYON / TERRY DELORIA / JANECE L. MAEZ / STUART SAM

RE: APPROVAL OF INDEPENDENT CONTRACTORS

RECOMMENDATION NO. A.02

It is recommended that the Board of Education enter into an agreement with the following Independent Contractors. These contracts are included in the 2013-2014 budget.

Contractor/ Contract Dates	Description	Site	Funding (Measure BB)
NONE			

Contractor/ Contract Dates	Description	Site	Funding
Reading Partners 09/16/13 to 06/10/14 Not to exceed: \$10,000	Provide individual reading instruction for K-5 th grades	John Muir John Muir SMASH	<u>\$5,000</u> : 01-90150-0-11100-10000-5802-005-4050 (Resource-PTA) <u>\$2,000</u> : 01-30100-0-11100-10000-5802-005-4050 (Title I) <u>\$3,000</u> : 01-90121-0-11100-10000-5802-009-4090 (SMASH Equity Fund)
PS Arts 9/16/13 to 5/30/14 Not to exceed: \$5,000	To teach Art to all K-5 Classes	John Muir	01-90150-0-11100-10000-5802-005-4050 (PTA)
Pretender's Studio 10/18/13 to 06/10/14 Not to exceed: \$3,800	Kindergarten Dance instruction	Roosevelt	01-90150-0-11100-10000-2917-007-1501 (PTA)
UCLA Math Project 1/27/14 to 6/30/14 Not to exceed: \$17,200	Professional Development in cognitively guided instruction (CGI)	Educational Services	01-90180-0-11100-10000-5802-030-1300 (RGK Grant)
Theatre Thirty-One 12/13/13 to 3/31/14 Not to exceed: \$16,000	Provide after-school Theatre/Drama Program two to three days/week including a culminating event at the end of the program	John Adams	01-90810-0-11100-10000-5802-011-4110 (Ed Foundation) 01-90150-0-11100-10000-5802-011-4110 (Reimbursed by PTSA)

The Phylmar Group, Inc. 10/1/13 to 6/30/14 1 st addendum to increase contract amount by: \$96,700; total not to exceed: \$260,850 (\$164,150 approved on 11/7/13)	Additional environmental testing at MHS	District	25-90100-0-00000-82000-5890-050-1500
NRC Environmental Services Inc. 12/19/13 to 6/30/14 Not to exceed: \$81,800	Best Management Practices (BMP) Cleaning of Class Room Areas at MHS	District	25-90100-0-00000-82000-5890-050-1500
Pillsbury 11/1/13 to 6/30/14 Not-to-exceed hourly amount as follows: \$695 (partners) \$550 (associates) \$270 (paralegals)	To provide legal counsel regarding environmental issues throughout the district.	District	25-90100-0-00000-82000-5820-050-1500 (Capital Facility Fund)
Davida Leal Jane Glaser 2/1/14 to 5/30/14 Not to exceed: \$14,000	Ceramics and Dance enrichment classes for second semester for K-5 th grade students.	Grant Elementary School	01-90150-0-11100-10000-5300-003-4030 (PTA)
Pretender's Studio 10/18/13 to 6/10/14 Not to exceed: \$3,800	Kindergarten Dance Instruction	Roosevelt	01-90150-0-11100-10000-2917-1501 (PTA)

MOTION MADE BY: Mr. Mechur

SECONDED BY: Ms. Lieberman

STUDENT ADVISORY VOTE: N/A

AYES: Six (6) (Mr. Allen, Dr. Escarce, Ms. Leon-Vazquez, Ms. Lieberman, Mr. Mechur, Mr. Patel)

NOES: None (0)

ABSENT: One (1) (Mr. de la Torre)



Santa Monica Malibu Schools

Santa Monica-Malibu Unified School District
1651 Sixteenth Street • Santa Monica, California 90404 • 310.450.8338

School or Office Location	Business Services	Contract No.	UC 14072
Account Number	25-90100-0-00000-82000-5802-050-1500	Vendor No.	20951
Resource	Capital Facility Fund	Board Action Date	January 16, 2014
(Resource Description: SIP, Title 1, EIA)			

Previous or Continuing Contract? ☐ Yes ☒ No

THIS AGREEMENT is entered into this 19th Day of December 2013 between

Frank Garrett
Name

Social Security Number

(OR)

NRC Environmental Services, Inc.

91-1572532

Company Name

Tax ID Number

3777 Long Beach Blvd

Long Beach

CA

90807

Address

City

State

Zip

562-432-1304

Phone

FAX

fgarrett@nrcc.com

Email Address

Cell Phone

Company contact if different from above:

N/A

N/A

Name

Phone (Indicate if cell or office number)

hereinafter referred to as the Contractor, and the Santa Monica-Malibu Unified School District of Los Angeles County, hereinafter referred to as the District.

WITNESSETH:

WHEREAS the District is authorized by Government Code Section 53069 to contract with and employ an independent contractor specially trained to perform special services required; and WHEREAS the Contractor is specially trained and experienced and competent to perform the special services pursuant to this agreement; The parties hereto contract and agree as follows:

- 1 **PERIOD OF AGREEMENT** shall be from December 19, 2013 to June 30, 2014
unless sooner terminated in accordance with paragraph 16 of this agreement.
- 2 **CONTRACTOR DUTIES:** Shall be as set forth in the attached proposal.
- 3 **PAYMENT BY THE DISTRICT:** The District shall pay the Contractor at the rate of _____ per
not to exceed a total of \$81,800. (including all expenses)

- 4 **AUTHORIZED EXPENSES:** ☐ No Expenses authorized ☐ Hotel and Meals
☐ Transportation ☒ Other as specified in attached proposal
Reimbursements not to exceed District Conference and Travel Policy 3351 rates (see Attachment 1)

5 **TOTAL COMPENSATION & INVOICING:**

Total compensation under this contract not to exceed \$81,800

The Contractor shall submit an invoice to the authorized District representative, on a form furnished by the District, certifying that he/she has personally performed the services required (invoice must state contract number).

☒ monthly ☐ upon completion of services

The Contractor shall assume all expenses, including but not limited to travel expenses, incurred by him/her in performance under this contract, unless authorized in #4 above.

- 6 **LIABILITY:** The District shall not be liable to the Contractor for personal injury or property damage sustained by the contractor in the performance of this contract whether caused by the District, its employees or pupils, or by any third persons. The District is not responsible for any property left or placed by Contractor on the District's premises.

- 7 **INDEPENDENT CONTRACTOR NOT AN OFFICER, EMPLOYEE OR AGENT OF DISTRICT:** While engaged in performance of this contract, the Contractor is an independent contractor and is not an officer, employee or agent of the District.

- 8 **INDEMNIFICATION:** Contractor shall defend, indemnify and hold harmless the District, its officers, agents, employees, elected and appointed officials, students and volunteers from and against any and all claims, liability, loss, damage, expense, costs (including without limited costs and attorney fees of litigation) of every nature arising out of or in connection with Contractor's performance of work hereunder or its failure to comply with any current or prospective law, except for such loss or damage which was caused by the sole negligence or willful misconduct of District.

9 **INSURANCE:**

☒ **General Liability** Expiration Date: _____

During the entire term of this contract and any extension or modification thereof, Contractor shall maintain insurance or a program of self-insurance acceptable to the District in its sole discretion, providing general liability insurance to cover Contractor's activities with a minimum Combined Single Limit for bodily injury, personal injury and property damage as required:

- ☐ General Liability shall include Sexual Molestation Defense Liability
☐ \$1,000,000.00
☐ \$5,000,000.00
☒ Other: Hold Harmless

☐ **Professional Liability/Errors and Omissions** During the entire term of this contract and any extension or modification thereof, Contractor shall maintain insurance acceptable to the District in its sole discretion, to cover Contractor's activities with a minimum Combined Single Limit of \$1,000,000.00.

☐ **Automotive (Owned and Non-owned)**

During the entire term of this contract and any extension or modification thereof, Contractor shall maintain insurance acceptable to the District in its sole discretion, to cover Contractor's activities with a minimum Combined Single Limit for automobile operations, bodily injury, personal injury and property damage as required by District:

- ☐ \$1,000,000.00
☐ \$5,000,000.00
☒ Other: N/A

9 INSURANCE, continued

No later than the effective date of this contract, Contractor shall provide District with a Certificate of Insurance and an original endorsement naming the District, its governing board, employees and volunteers as additional insured on all required policies including:

1. A provision for thirty (30) calendar days written notice to the District before cancellation, suspension, or reduction in coverage or limits.
2. The certificate shall also provide that the District's self-insurance and insurance programs shall be non-contributory.
3. Insurance Certificate shall state the services and site which the insurance coverage is for.

☐ **Worker's Compensation**

Contractor agrees to carry worker's compensation insurance acceptable to the District in its sole discretion at a limit determined by the Labor code of the State of California and Employer's Liability insurance in the amount of \$1 million of its current limit of each, whichever is greater. Proof of such coverage will be furnished by Contractor prior to the commencement of this agreement.

10 OTHER REQUIREMENTS:

- ☐ TB Testing Date Tested: N/A
☐ Fingerprinting

11 ASSIGNMENT OF CONTRACT: Contractor shall not assign, transfer or subcontract any of its rights, burdens, duties or obligations under this agreement without prior permission of the District.

12 AMERICANS WITH DISABILITIES ACT: It is the policy of the District to comply with all relevant and applicable provisions of the Americans with Disabilities Act. All organizations/individuals providing services under contract to the District must agree to provide services in a nondiscriminatory manner consistent with the Americans with Disabilities Act.

13 ANTI-DISCRIMINATION: The Governing Board of the Santa Monica-Malibu Unified School District has adopted an Affirmative Action Program for equal employment opportunities of all school district contracts. The Contractor shall familiarize himself with these requirements and is to consider them as a binding part of the contract.

14 LAWS—ADHERENCE TO ALL LOCAL, STATE, FEDERAL REQUIREMENTS: The Contractor shall adhere to all applicable federal, state and local laws, codes and ordinances, including but not limited to those promulgated by CAL-OSHA, FED-OSHA, EPA, the California State Department of Health Services and Cities of Malibu and Santa Monica Health Departments.

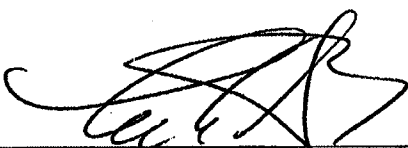
15 SMOKE-FREE WORK PLACE: The District has declared that it is in the best interest of the District, its students and employees, and the public, to prohibit the use of tobacco product within all District facilities, on all exterior grounds when pupils are on site and in all District vehicles (BP4250). Contractors are therefore not permitted to smoke while on District property.

16 TERMINATION OF CONTRACT: The District may terminate this contract at any time for any reason including, but not limited to, loss of funding for the contract. The termination of contract shall be in writing, with 24 hours notice. The District shall compensate the Contractor for work or services performed through the date of the termination.

17 PREVAILING WAGES: The Contractor and any subcontractor shall pay not less than the specified prevailing rates of wages to all workers employed by them in the execution of the contract as required by law.

- 18 **TAXES:** Contractor shall be liable and solely responsible for paying all required taxes and other obligations, including, but not limited to federal and state income taxes and social security taxes payable in connection with this contract. Contractor agrees to indemnify, defend and hold the District harmless from and against any worker's compensation or other tax liability which the District may incur to any Federal or State governments with jurisdiction as a consequence of this contract. All payment made to contractor shall be reported to the Internal Revenue Service.

WITNESS the parties hereto the day and year first above written.



Contractor

Frank Garrett
NRC

Printed Name



Date

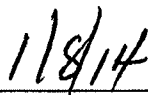
Santa Monica-Malibu Unified School District
1651 Sixteenth Street
Santa Monica CA 90404

BY: 

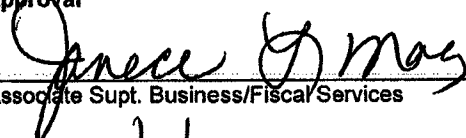
Sponsoring Administrator

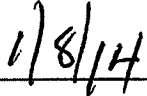
Janece L. Macz
Associate Superintendent Business/Fiscal Services
Chief Financial Officer

Title



Date

Approval


Associate Supt. Business/Fiscal Services


Date

Purchasing Director

Date

NOTE: THIS CONTRACT IS NOT VALID UNLESS IT IS SUPPORTED BY A BOARD ACTION

☐ Addendum Attached for contract modifications.

Attachment Form – Independent Contract

Per item 5 of Contract Procedures, the following shall be attached and submitted with the contract:

1. **Objective of contract: (Outcome of the contracted services)**
 - To mobilize necessary crew and support operations for limited remediation activity /limited surface cleaning of class room areas at Malibu High School

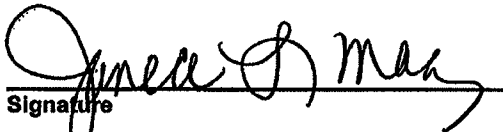
2. **Contractor's requirement by the District to fulfill the contract and the milestones to complete the contract either listed by date or deliverable(s). (Detailed contract services to be attached or stated below)**
 - As specified in the attached December 19, 2013 Rev 4 proposal.

3. **Payable schedule** _____ **Check here if not submitted by contractor**
 - Monthly

4. **Why can the contract not be done using in-house staff?**
 - Specialized expertise required.

5. **Financial Impact Statement: Is there any additional funding required as outcome of this contract?**
☒ **No** ☐ **Yes** If yes, please state estimated cost and program requirements.

6. **I certify that I am in compliance with funding source requirements**


Signature

1/8/14
Dated

Janece L. Macz

Printed Name

Associate Superintendent Business and Fiscal Services
Chief Financial Officer

Title

(If Federal funding is being used, the services must include language for NCLB. Please procedures for list of clause that can be used for this purpose.)



3777 Long Beach Boulevard, Long Beach CA 90807

December 15, 2013 Rev 4

Mr. Mark Katchen

Managing Principal

The Phylmar Group

RE: Limited Remediation Activity – Malibu High School

Limited Surface Cleaning of Class Room Areas

30215 Morning View Drive, Malibu CA 90265

National Response Corporation (NRC) is pleased to provide the following scope of work and pricing for the limited remediation of class rooms as listed in the provided summary and pricing table. All of the limited remediation work shall be concentrated on the window frames and specifically the frame and caulk interface. All of the limited BMP work shall focus on the non-porous surfaces of the areas identified in the summary and pricing table.

Proposed Scope of Work

1. Pre-Project Submittal:

NRC shall prepare the following documents prior to the mobilization to the project site.

- Employee Training Certifications (29 CFR 1910.120 Hazardous Waste Operations and Emergency Response "HazWOpER" trained technician and or supervisor;
- Employee Fit for Duty Designation under medical approval,
- Site Health and Safety Plan,
- Site Work Books
- Transportation and Traffic Plan
- Waste Storage and Management Plan
- Site Organizational Chart and contact names/numbers

All documents are submitted with a tracked transmittal form. Owner or owner's representative is required to acknowledge all submitted documents in writing prior to notice of mobilization.



3777 Long Beach Boulevard, Long Beach CA 90807

2. Project Mobilization:

NRC shall mobilize the necessary crew and support operations to complete the project. A review of the dispatch order will be conducted to ensure that only authorized employees are assigned to the project site. All personnel shall be subject to site verification by Owner or Owners' representative to ensure that all have prior approval.

Equipment shall be staged in protected areas only, i.e., within the locked and access restricted areas within the school property. A designated waste storage area that was established in the work plan shall be erected and properly labelled prior to the generation of mitigation related wastes.

NRC crews shall wear company identified coveralls. In addition a clearly displayed Identification badge shall be worn at all times. The badge design and logo shall be provided within the pre-project submittal.

Equipment shall remain secured within the NRC sealed cargo van when not in use. Overnight hours shall require the equipment to remain on site.

3. Work Area Remediation.

NRC shall complete the following activities for each work area.

- Complete the work area safety briefing with the assigned crew, following the meeting each crew member shall sign the safety briefing and sign the work area entry sheet.
- Work area photographs taken from four perspectives shall be completed prior to any area disturbance,
- NRC shall conduct OSHA Monitoring for employee exposure for PCB's. 20% of the work crew shall be assigned a personal sampling train that includes a Florisil® Tubes and Glass Fiber Filter that is attached to the employee within their breathing zone. The sampling will be conducted to obtain data of worker exposure in these activities: surface vacuuming, furniture movement, surface wipe down, and setup of polyethylene sheeting. The information shall be received within 5 working days and provided to both the Employee and the Owner or Owners' representative.
- Furniture and other materials that are stored adjacent to the window areas of the identified rooms shall be photographed and pre-cleaned and placed on polyethylene sheeting.
- The entire work area shall be photographed as work continues.
- The area below the window (wall and floor), once materials are removed, shall be HEPA vacuumed to remove visible dust.
- The area below the window (wall and floor) shall be cover with polyethylene sheeting. This shall be affixed with low tack tape and staples to limit surface damage during removal.



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- The window frame, primarily where the caulking exists, shall be HEPA vacuumed to remove surface dust.
- The window frame shall receive a solvent wipe to remove any adhered materials beyond that of the caulk, i.e., tape, glue and permanent marker.
- The window frame shall be masked with a low tack tape and receive one additional solvent wipe.
- All generated cleaning wastes are placed into a sealed 55 gallon steel drum and maintained in the designated project only storage area
- Utilizing a photographic image of the initial work area all furnishing and materials moved in the course of the work shall be replaced.
- All equipment utilized during the work operations shall be cleaned prior to moving to a new work location. This shall include, empty all vacuums, attach new hose ends, and through cleaning of the vacuum exterior.

4. Continuation of Remediation Activity

NRC shall repeat the process at each work location with the same remediation process. All log books shall be secured following the work activity. Only one log book can be used per room.

The log books are copied and secured. An initial copy of the field records are presented at the completion of each room.

5. Best Management Practice (BMP) Cleaning

NRC shall HEPA vacuum and wet wipe all non-porous surfaces that are rated as having contact potential, by the following manner:

NRC shall HEPA vacuum non-porous surfaces, including walls, window surfaces, doors and door frames, desks, chairs, book shelves, white boards and similar.

NRC shall wet wipe non-porous surfaces, including walls, window surfaces, doors and door frames, desks, chairs, book shelves, white boards, music stands, and similar. The wiping surfactant shall be an IAQ rated cleaner.

NRC shall HEPA Vacuum all carpet surfaces that are accessible within the rooms.

No cleaning of books or other non-porous objects shall be processed during the BMP Cleaning.

6. Post Remediation Activity

NRC shall manage the document records from the remediation phase that will include:

- Quality Assurance and Quality Control (QA/QC) to verify that all documents are accurately and properly signed by employees



3777 Long Beach Boulevard, Long Beach CA 90807

- Testing data for employee exposure is referenced to Chain of Custody documents
- Testing data from cleaning waste samples is referenced to Chain of Custody documents
- Cleaning waste disposal profiles are properly executed and submitted
- Cleaning waste disposal is handled under state approved documents
- Post area inspection to insure that all equipment and supplies are removed from site
- Safety Data Sheets (SDS) for all chemicals introduced during the course of work operations shall be provided.
- A photographic index of all site photography shall be provided along with 2 sets of CD's

Cost Estimate:

NRC proposes to complete the remedial activities as indicated in the below Pricing Matrix

Location	Remediation	BMP Cleaning	Total
Class Room 1*	\$4,400.00	\$3,100.00	\$7,500.00
Class Room 2**		\$3,100.00	\$3,100.00
Class Room 3**		\$3,100.00	\$3,100.00
Class Room 4**		\$3,100.00	\$3,100.00
Class Room 5*	\$4,400.00	\$3,100.00	\$7,500.00
Class Room 6**		\$3,100.00	\$3,100.00
Class Room 7**		\$3,100.00	\$3,100.00
Class Room 8*	\$4,400.00	\$3,100.00	\$7,500.00
Class Room 9**		\$3,100.00	\$3,100.00
Class Room 10**		\$3,100.00	\$3,100.00
Class Room 14**		\$2,200.00	\$2,200.00
Class Room 16**		\$2,200.00	\$2,200.00
Class Room 301 (Music Room)*	\$3,400.00	\$3,500.00	\$6,900.00
Class Room 302 (Music Room)**		\$3,500.00	\$3,500.00
Class Room 303 (Music Room)**		\$3,500.00	\$3,500.00
Costume Storage**		\$3,100.00	\$3,100.00
Library*	\$7,400.00	\$5,700.00	\$13,100.00
Gym Faculty Office **		\$3,100.00	\$3,100.00
Estimate	\$24,000.00	\$57,800.00	\$81,800.00

*All work is non- prevailing wage rates and is based on normal work hours 7:00 AM to 4:00 PM (Monday through Friday)

** All work is non- prevailing wage rates and is based on after hours work hours and weekends (Friday - Sunday)

All work is based on NRC Standard Terms and Conditions.



3777 Long Beach Boulevard, Long Beach CA 90807

If you have any questions please feel free to contact me at any time (562)432-1304.

Sincerely Yours,

Frank Garrett

HOLD HARMLESS AGREEMENT

This agreement Period shall be from December 19, 2013 to June 30, 2014 between Frank Garrett of NRC herein referred to as the Contractor, and Santa Monica-Malibu Unified School District of Los Angeles County, herein referred to as the District.

In lieu of insurance coverage, NRC (Contractor) agrees to defend, indemnify and hold harmless the Santa Monica-Malibu Unified District, its officers, agents, employees, elected and appointed officials, and volunteers from and against any and all claims including active and passive claims, losses, costs attorney fees and expenses arising out of any liability or claim of liability for personal injury, bodily injury to person or death, contractual liability and damage to property sustained or claimed to have been sustained arising out of the acts, errors or omissions of Contractor, its subcontractors or those of any of its officers, agents or employees< whether such act is authorized by the Agreement or not. District assumes no responsibility for any property placed on the premises. Contractor further agrees to waive all rights of subrogation against the District. The preceding provisions do not apply to any damages or losses caused by the sole negligence or willful misconduct of the District or any of its officers, agents or employees.



Signature (Contractor)

December 27, 2013

Date

Frank Garrett
NRC

Printed Name

Independent Contractor: Waiver / Confirmation of Testing

 X Request for Waiver

 Request for Confirmation of Testing

Contractor's Name:
Frank Garrett/NRC

Contract No: _____

Submitted By:
Janece L. Maez

Date:
December 19, 2013

School Site:
Business Services

Phone:
(310) 450-8338 ext. 70268

 X **Waiver of Insurance Requirements**
(A Hold Harmless form must be signed before processing payment)

Waiver Declined: ☐

Janece L. Maez
Janece L. Maez, Assoc. Supt., Business & Fiscal Services, CFO

1/8/14
Date

 X **Waiver of Fingerprinting Requirements**

Waiver Declined: ☐

 X **Waiver of T/B Testing**

Waiver Declined: ☐

Debra Moore Washington
Debra Moore Washington, Asst. Supt., Human Resources

1-9-14
Date

Reason Waiver is being requested:

No contact with students.

Confirmation of Testing:

 Fingerprinting requirements have been met and cleared.

 T/B Testing has been done and requirements have been met.

Debra Moore Washington
Debra Moore Washington, Asst. Supt., Human Resources

Date

Please return this completed contract waiver with approval signatures and contract to the Purchasing Office.
SMMUSD.ICWC8/08

TO: BOARD OF EDUCATION

ACTION/CONSENT

01/16/14

FROM: SANDRA LYON / TERRY DELORIA / JANECE L. MAEZ / STUART SAM

RE: APPROVAL OF INDEPENDENT CONTRACTORS

RECOMMENDATION NO. A.02

It is recommended that the Board of Education enter into an agreement with the following Independent Contractors. These contracts are included in the 2013-2014 budget.

Contractor/ Contract Dates	Description	Site	Funding (Measure BB)
NONE			

Contractor/ Contract Dates	Description	Site	Funding
Reading Partners 09/16/13 to 06/10/14 Not to exceed: \$10,000	Provide individual reading instruction for K-5 th grades	John Muir John Muir SMASH	<u>\$5,000:</u> 01-90150-0-11100-10000-5802-005-4050 (Resource-PTA) <u>\$2,000:</u> 01-30100-0-11100-10000-5802-005-4050 (Title I) <u>\$3,000:</u> 01-90121-0-11100-10000-5802-009-4090 (SMASH Equity Fund)
PS Arts 9/16/13 to 5/30/14 Not to exceed: \$5,000	To teach Art to all K-5 Classes	John Muir	01-90150-0-11100-10000-5802-005-4050 (PTA)
Pretender's Studio 10/18/13 to 06/10/14 Not to exceed: \$3,800	Kindergarten Dance instruction	Roosevelt	01-90150-0-11100-10000-2917-007-1501 (PTA)
UCLA Math Project 1/27/14 to 6/30/14 Not to exceed: \$17,200	Professional Development in cognitively guided instruction (CGI)	Educational Services	01-90180-0-11100-10000-5802-030-1300 (RGK Grant)
Theatre Thirty-One 12/13/13 to 3/31/14 Not to exceed: \$16,000	Provide after-school Theatre/Drama Program two to three days/week including a culminating event at the end of the program	John Adams	01-90810-0-11100-10000-5802-011-4110 (Ed Foundation) 01-90150-0-11100-10000-5802-01-4110 (Reimbursed by PTSA)

The Phylmar Group, Inc. 10/1/13 to 6/30/14 1 st addendum to increase contract amount by: \$96,700; total not to exceed: \$260,850 (\$164,150 approved on 11/7/13)	Additional environmental testing at MHS	District	25-90100-0-00000-82000-5890-050-1500
NRC Environmental Services Inc. 12/19/13 to 6/30/14 Not to exceed: \$81,800	Best Management Practices (BMP) Cleaning of Class Room Areas at MHS	District	25-90100-0-00000-82000-5890-050-1500
Pillsbury 11/1/13 to 6/30/14 Not-to-exceed hourly amount as follows: \$695 (partners) \$550 (associates) \$270 (paralegals)	To provide legal counsel regarding environmental issues throughout the district.	District	25-90100-0-00000-82000-5820-050-1500 (Capital Facility Fund)
Davida Leal Jane Glaser 2/1/14 to 5/30/14 Not to exceed: \$14,000	Ceramics and Dance enrichment classes for second semester for K-5 th grade students.	Grant Elementary School	01-90150-0-11100-10000-5300-003-4030 (PTA)
Pretender's Studio 10/18/13 to 6/10/14 Not to exceed: \$3,800	Kindergarten Dance Instruction	Roosevelt	01-90150-0-11100-10000-2917-1501 (PTA)

MOTION MADE BY: Mr. Mechur

SECONDED BY: Ms. Lieberman

STUDENT ADVISORY VOTE: N/A

AYES: Six (6) (Mr. Allen, Dr. Escarce, Ms. Leon-Vazquez, Ms. Lieberman, Mr. Mechur, Mr. Patel)

NOES: None (0)

ABSENT: One (1) (Mr. de la Torre)



Santa Monica-Malibu Schools

Santa Monica-Malibu Unified School District
1651 Sixteenth Street • Santa Monica, California 90404 • 310.450.8338

School or Office Location	Business Services	Contract No.	UC
Account Number	25-90100-0-00000-82000-5802-050-1500	Vendor No.	20951
Resource	Capital Facility Fund	Board Action Date	January 16, 2014

(Resource Description: SIP, Title 1, EIA)

Previous or Continuing Contract? ☐ Yes ☒ No

THIS AGREEMENT is entered into this 19th Day of December 2013 between

Frank Garrett

Name

NRC Environmental Services, Inc.

Company Name

3777 Long Beach Blvd

Address

562-432-1304

Phone

Cell Phone

Company contact if different from above:

N/A

Name

(OR)

Social Security Number

91-1572532

Tax ID Number

Long Beach

City

CA

State

90807

Zip

FAX

fgarrett@nrcc.com

Email Address

N/A

Phone (indicate if cell or office number)

hereinafter referred to as the Contractor, and the Santa Monica-Malibu Unified School District of Los Angeles County, hereinafter referred to as the District.

WITNESSETH:

WHEREAS the District is authorized by Government Code Section 53069 to contract with and employ an independent contractor specially trained to perform special services required; and WHEREAS the Contractor is specially trained and experienced and competent to perform the special services pursuant to this agreement; The parties hereto contract and agree as follows:

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- PAYMENT BY THE DISTRICT:** The District shall pay the Contractor at the rate of _____ per _____
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- 4 **AUTHORIZED EXPENSES:** ☐ No Expenses authorized ☐ Hotel and Meals
☐ Transportation ☒ Other as specified in attached proposal
Reimbursements not to exceed District Conference and Travel Policy 3351 rates (see Attachment 1)

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Total compensation under this contract not to exceed \$81,800

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☒ monthly ☐ upon completion of services

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- 7 **INDEPENDENT CONTRACTOR NOT AN OFFICER, EMPLOYEE OR AGENT OF DISTRICT:** While engaged in performance of this contract, the Contractor is an independent contractor and is not an officer, employee or agent of the District.

- 8 **INDEMNIFICATION:** Contractor shall defend, indemnify and hold harmless the District, its officers, agents, employees, elected and appointed officials, students and volunteers from and against any and all claims, liability, loss, damage, expense, costs (including without limited costs and attorney fees of litigation) of every nature arising out of or in connection with Contractor's performance of work hereunder or its failure to comply with any current or prospective law, except for such loss or damage which was caused by the sole negligence or willful misconduct of District.

9 **INSURANCE:**

☒ **General Liability** Expiration Date: _____

During the entire term of this contract and any extension or modification thereof, Contractor shall maintain insurance or a program of self-insurance acceptable to the District in its sole discretion, providing general liability insurance to cover Contractor's activities with a minimum Combined Single Limit for bodily injury, personal injury and property damage as required:

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☐ \$1,000,000.00
☐ \$5,000,000.00
☒ Other: Hold Harmless

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- ☐ \$1,000,000.00
☐ \$5,000,000.00
☒ Other: N/A

9 **INSURANCE, continued**

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1. A provision for thirty (30) calendar days written notice to the District before cancellation, suspension, or reduction in coverage or limits.
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☐ **Worker's Compensation**

Contractor agrees to carry worker's compensation insurance acceptable to the District in its sole discretion at a limit determined by the Labor code of the State of California and Employer's Liability insurance in the amount of \$1 million of its current limit of each, whichever is greater. Proof of such coverage will be furnished by Contractor prior to the commencement of this agreement.

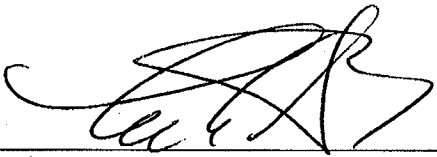
10 **OTHER REQUIREMENTS:**

- ☐ TB Testing Date Tested: N/A
☐ Fingerprinting

- 11 **ASSIGNMENT OF CONTRACT:** Contractor shall not assign, transfer or subcontract any of its rights, burdens, duties or obligations under this agreement without prior permission of the District.
- 12 **AMERICANS WITH DISABILITIES ACT:** It is the policy of the District to comply with all relevant and applicable provisions of the Americans with Disabilities Act. All organizations/individuals providing services under contract to the District must agree to provide services in a nondiscriminatory manner consistent with the Americans with Disabilities Act.
- 13 **ANTI-DISCRIMINATION:** The Governing Board of the Santa Monica-Malibu Unified School District has adopted an Affirmative Action Program for equal employment opportunities of all school district contracts. The Contractor shall familiarize himself with these requirements and is to consider them as a binding part of the contract.
- 14 **LAWS-ADHERENCE TO ALL LOCAL, STATE, FEDERAL REQUIREMENTS:** The Contractor shall adhere to all applicable federal, state and local laws, codes and ordinances, including but not limited to those promulgated by CAL-OSHA, FED-OSHA, EPA, the California State Department of Health Services and Cities of Malibu and Santa Monica Health Departments.
- 15 **SMOKE-FREE WORK PLACE:** The District has declared that it is in the best interest of the District, its students and employees, and the public, to prohibit the use of tobacco product within all District facilities, on all exterior grounds when pupils are on site and in all District vehicles (BP4250). Contractors are therefore not permitted to smoke while on District property.
- 16 **TERMINATION OF CONTRACT:** The District may terminate this contract at any time for any reason including, but not limited to, loss of funding for the contract. The termination of contract shall be in writing, with 24 hours notice. The District shall compensate the Contractor for work or services performed through the date of the termination.
- 17 **PREVAILING WAGES:** The Contractor and any subcontractor shall pay not less than the specified prevailing rates of wages to all workers employed by them in the execution of the contract as required by law.


- 18 **TAXES:** Contractor shall be liable and solely responsible for paying all required taxes and other obligations, including, but not limited to federal and state income taxes and social security taxes payable in connection with this contract. Contractor agrees to indemnify, defend and hold the District harmless from and against any worker's compensation or other tax liability which the District may incur to any Federal or State governments with jurisdiction as a consequence of this contract. All payment made to contractor shall be reported to the Internal Revenue Service.

WITNESS the parties hereto the day and year first above written.



Contractor

Frank Garrett
NRC

Printed Name

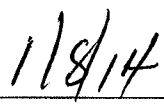

Date

Santa Monica-Malibu Unified School District
1651 Sixteenth Street
Santa Monica CA 90404

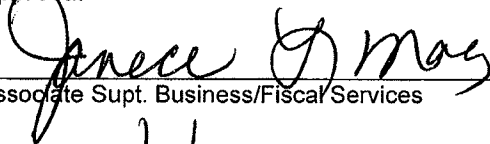
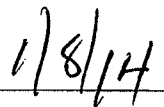
BY: 
Sponsoring Administrator

Janece L. Maez
Associate Superintendent Business/Fiscal Services
Chief Financial Officer

Title


Date

Approval


Associate Supt. Business/Fiscal Services

Date

Purchasing Director

Date

NOTE: THIS CONTRACT IS NOT VALID UNLESS IT IS SUPPORTED BY A BOARD ACTION

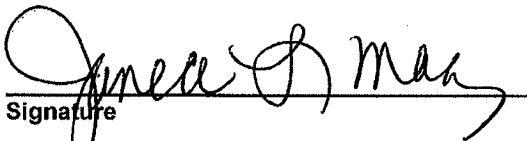
☐ Addendum Attached for contract modifications.

Attachment Form – Independent Contract

Per item 5 of Contract Procedures, the following shall be attached and submitted with the contract:

1. **Objective of contract: (Outcome of the contracted services)**
 - To mobilize necessary crew and support operations for limited remediation activity /limited surface cleaning of class room areas at Malibu High School
2. **Contractor's requirement by the District to fulfill the contract and the milestones to complete the contract either listed by date or deliverable(s). (Detailed contract services to be attached or stated below)**
 - As specified in the attached December 19, 2013 Rev 4 proposal.
3. **Payable schedule** _____ **Check here if not submitted by contractor**
 - Monthly
4. **Why can the contract not be done using in-house staff?**
 - Specialized expertise required.
5. **Financial Impact Statement: Is there any additional funding required as outcome of this contract?**
☒ No ☐ Yes If yes, please state estimated cost and program requirements.

6. I certify that I am in compliance with funding source requirements

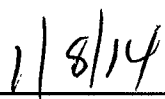

Signature

Janece L. Maez

Printed Name

Associate Superintendent Business and Fiscal Services
Chief Financial Officer

Title


Dated

(If Federal funding is being used, the services must include language for NCLB. Please procedures for list of clause that can be used for this purpose.)



3777 Long Beach Boulevard, Long Beach CA 90807

December 15, 2013 Rev 4

Mr. Mark Katchen

Managing Principal

The Phylmar Group

RE: Limited Remediation Activity – Malibu High School

Limited Surface Cleaning of Class Room Areas

30215 Morning View Drive, Malibu CA 90265

National Response Corporation (NRC) is pleased to provide the following scope of work and pricing for the limited remediation of class rooms as listed in the provided summary and pricing table. All of the limited remediation work shall be concentrated on the window frames and specifically the frame and caulk interface. All of the limited BMP work shall focus on the non-porous surfaces of the areas identified in the summary and pricing table.

Proposed Scope of Work

1. Pre-Project Submittal:

NRC shall prepare the following documents prior to the mobilization to the project site.

- Employee Training Certifications (29 CFR 1910.120 Hazardous Waste Operations and Emergency Response “HazWOpER” trained technician and or supervisor,
- Employee Fit for Duty Designation under medical approval,
- Site Health and Safety Plan,
- Site Work Books
- Transportation and Traffic Plan
- Waste Storage and Management Plan
- Site Organizational Chart and contact names/numbers

All documents are submitted with a tracked transmittal form. Owner or owner’s representative is required to acknowledge all submitted documents in writing prior to notice of mobilization.



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2. Project Mobilization:

NRC shall mobilize the necessary crew and support operations to complete the project. A review of the dispatch order will be conducted to ensure that only authorized employees are assigned to the project site. All personnel shall be subject to site verification by Owner or Owners' representative to ensure that all have prior approval.

Equipment shall be staged in protected areas only, i.e., within the locked and access restricted areas within the school property. A designated waste storage area that was established in the work plan shall be erected and properly labelled prior to the generation of mitigation related wastes.

NRC crews shall wear company identified coveralls. In addition a clearly displayed Identification badge shall be worn at all times. The badge design and logo shall be provided within the pre-project submittal.

Equipment shall remain secured within the NRC sealed cargo van when not in use. Overnight hours shall require the equipment to remain on site.

3. Work Area Remediation.

NRC shall complete the following activities for each work area.

- Complete the work area safety briefing with the assigned crew, following the meeting each crew member shall sign the safety briefing and sign the work area entry sheet.
- Work area photographs taken from four perspectives shall be completed prior to any area disturbance,
- NRC shall conduct OSHA Monitoring for employee exposure for PCB's. 20% of the work crew shall be assigned a personal sampling train that includes a Florisil® Tubes and Glass Fiber Filter that is attached to the employee within their breathing zone. The sampling will be conducted to obtain data of worker exposure in these activities: surface vacuuming, furniture movement, surface wipe down, and setup of polyethylene sheeting. The information shall be received within 5 working days and provided to both the Employee and the Owner or Owners' representative.
- Furniture and other materials that are stored adjacent to the window areas of the identified rooms shall be photographed and pre-cleaned and placed on polyethylene sheeting.
- The entire work area shall be photographed as work continues.
- The area below the window (wall and floor), once materials are removed, shall be HEPA vacuumed to remove visible dust.
- The area below the window (wall and floor) shall be cover with polyethylene sheeting. This shall be affixed with low tack tape and staples to limit surface damage during removal.



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- The window frame, primarily where the caulking exists, shall be HEPA vacuumed to remove surface dust.
- The window frame shall receive a solvent wipe to remove any adhered materials beyond that of the caulk, i.e., tape, glue and permanent marker.
- The window frame shall be masked with a low tack tape and receive one additional solvent wipe.
- All generated cleaning wastes are placed into a sealed 55 gallon steel drum and maintained in the designated project only storage area
- Utilizing a photographic image of the initial work area all furnishing and materials moved in the course of the work shall be replaced.
- All equipment utilized during the work operations shall be cleaned prior to moving to a new work location. This shall include, empty all vacuums, attach new hose ends, and through cleaning of the vacuum exterior.

4. Continuation of Remediation Activity

NRC shall repeat the process at each work location with the same remediation process. All log books shall be secured following the work activity. Only one log book can be used per room.

The log books are copied and secured. An initial copy of the field records are presented at the completion of each room.

5. Best Management Practice (BMP) Cleaning

NRC shall HEPA vacuum and wet wipe all non-porous surfaces that are rated as having contact potential, by the following manner:

NRC shall HEPA vacuum non-porous surfaces, including walls, window surfaces, doors and door frames, desks, chairs, book shelves, white boards and similar.

NRC shall wet wipe non-porous surfaces, including walls, window surfaces, doors and door frames, desks, chairs, book shelves, white boards, music stands, and similar. The wiping surfactant shall be an IAQ rated cleaner.

NRC shall HEPA Vacuum all carpet surfaces that are accessible within the rooms.

No cleaning of books or other non-porous objects shall be processed during the BMP Cleaning.

6. Post Remediation Activity

NRC shall manage the document records from the remediation phase that will include:

- Quality Assurance and Quality Control (QA/QC) to verify that all documents are accurately and properly signed by employees



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- Testing data for employee exposure is referenced to Chain of Custody documents
- Testing data from cleaning waste samples is referenced to Chain of Custody documents
- Cleaning waste disposal profiles are properly executed and submitted
- Cleaning waste disposal is handled under state approved documents
- Post area inspection to insure that all equipment and supplies are removed from site
- Safety Data Sheets (SDS) for all chemicals introduced during the course of work operations shall be provided.
- A photographic index of all site photography shall be provided along with 2 sets of CD's

Cost Estimate:

NRC proposes to complete the remedial activities as indicted in the below Pricing Matrix

Location	Remediation	BMP Cleaning	Total
Class Room 1*	\$4,400.00	\$3,100.00	\$7,500.00
Class Room 2**		\$3,100.00	\$3,100.00
Class Room 3**		\$3,100.00	\$3,100.00
Class Room 4**		\$3,100.00	\$3,100.00
Class Room 5*	\$4,400.00	\$3,100.00	\$7,500.00
Class Room 6**		\$3,100.00	\$3,100.00
Class Room 7**		\$3,100.00	\$3,100.00
Class Room 8*	\$4,400.00	\$3,100.00	\$7,500.00
Class Room 9**		\$3,100.00	\$3,100.00
Class Room 10**		\$3,100.00	\$3,100.00
Class Room 14**		\$2,200.00	\$2,200.00
Class Room 16**		\$2,200.00	\$2,200.00
Class Room 301 (Music Room)*	\$3,400.00	\$3,500.00	\$6,900.00
Class Room 302 (Music Room)**		\$3,500.00	\$3,500.00
Class Room 303 (Music Room)**		\$3,500.00	\$3,500.00
Costume Storage**		\$3,100.00	\$3,100.00
Library*	\$7,400.00	\$5,700.00	\$13,100.00
Gym Faculty Office **		\$3,100.00	\$3,100.00
Estimate	\$24,000.00	\$57,800.00	\$81,800.00

*All work is non- prevailing wage rates and is based on normal work hours 7:00 AM to 4:00 PM (Monday through Friday)

** All work is non- prevailing wage rates and is based on after hours work hours and weekends (Friday - Sunday)

All work is based on NRC Standard Terms and Conditions.



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If you have any questions please feel free to contact me at any time (562)432-1304.

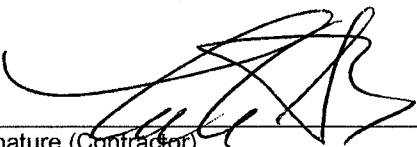
Sincerely Yours,

Frank Garrett

HOLD HARMLESS AGREEMENT

This agreement Period shall be from December 19, 2013 to June 30, 2014 between Frank Garrett of NRC herein referred to as the Contractor, and Santa Monica-Malibu Unified School District of Los Angeles County, herein referred to as the District.

In lieu of insurance coverage, NRC (Contractor) agrees to defend, indemnify and hold harmless the Santa Monica-Malibu Unified District, its officers, agents, employees, elected and appointed officials, and volunteers from and against any and all claims including active and passive claims, losses, costs attorney fees and expenses arising out of any liability or claim of liability for personal injury, bodily injury to person or death, contractual liability and damage to property sustained or claimed to have been sustained arising out of the acts, errors or omissions of Contractor, its subcontractors or those of any of its officers, agents or employees< whether such act is authorized by the Agreement or not. District assumes no responsibility for any property placed on the premises. Contractor further agrees to waive all rights of subrogation against the District. The preceding provisions do not apply to any damages or loses caused by the sole negligence or willful misconduct of the District or any of its officers, agents or employees.



Signature (Contractor)

December 27, 2013

Date

Frank Garrett
NRC

Printed Name

Independent Contractor: Waiver / Confirmation of Testing

 X Request for Waiver

 Request for Confirmation of Testing

Contractor's Name:
Frank Garrett/NRC

Contract No:

Submitted By:
Janece L. Maez

Date:
December 19, 2013

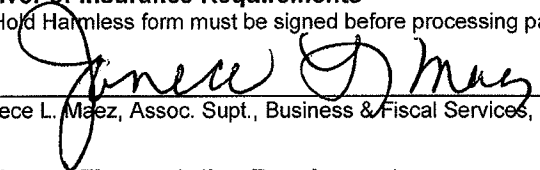
School Site:
Business Services

Phone:
(310) 450-8338 ext. 70268

 X **Waiver of Insurance Requirements**

(A Hold Harmless form must be signed before processing payment)

Waiver Declined: ☐

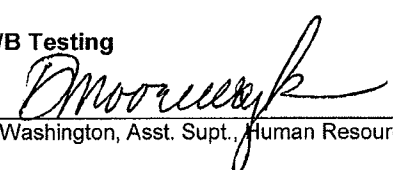

Janece L. Maez, Assoc. Supt., Business & Fiscal Services, CFO

11/8/14
Date

 X **Waiver of Fingerprinting Requirements**

Waiver Declined: ☐

 X **Waiver of T/B Testing**


Debra Moore Washington, Asst. Supt., Human Resources

Waiver Declined: ☐

1-9-14
Date

Reason Waiver is being requested:

No contact with students.

Confirmation of Testing:

 Fingerprinting requirements have been met and cleared.

 T/B Testing has been done and requirements have been met.

Debra Moore Washington, Asst. Supt., Human Resources

Date

Please return this completed contract waiver with approval signatures and contract to the Purchasing Office.
SMMUSD.ICWC8/08

Lyon, Sandra

From: Lyon, Sandra
Sent: Wednesday, December 11, 2013 10:29 AM
To: armann.steve@epa.gov
Subject: FW: Classroom cleanup

Hi Steve,

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Thanks in advance,
Sandy

Sandra Lyon
Superintendent
Santa Monica-Malibu Unified School District
1651 Sixteenth St.
Santa Monica, CA 90404
Tel: 310.450.8338 X 70241
FAX: 310.581.1138
www.smmusd.org

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If you are not the intended recipient, please contact the sender by reply email and destroy all copies of the original message. Thank you.

From: Elaine Rene-Weissman [<mailto:elaine@erwdesign.com>]
Sent: Wednesday, December 11, 2013 9:46 AM
To: Lyon, Sandra; Maez, Jan; Lieberman, Laurie; mkatchen@phylmar.com
Subject: Classroom cleanup

Good Morning,

I understand that cleaning the classrooms might be 'out of order' but Jennifer DeNicola has sent an email to the parents saying we MUST have this done over the winter break.

There's not much time between now and the Board of Ed meeting, but if the District can respond to this head on, it would avert a political mess.

Regards,
Elaine René-Weissman, Architect + LEED AP
SMMUSD District Liaison
ERW DESIGN
6624 Dume Drive
Malibu, CA 90265

Lyon, Sandra

From: Armann, Steve <Armann.Steve@epa.gov>
Sent: Wednesday, December 11, 2013 10:40 AM
To: Lyon, Sandra
Cc: Santos, Carmen
Subject: RE: Classroom cleanup

Sandy, in general ... if you guys can mobilize ... we will do everything we can to help!

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"I read Jennifer deNicola's message. My recommendation would be that while we wait for a more formal cleanup plan, a **letter or e-mail to us describing the cleaning procedures and waste handling would be sufficient**. In absence of better data, we may need to assume that dust to be removed from the school and HEPA filters need to be disposed as a PCB remediation waste. If we had bulk dust samples we could determine best choice for disposal (municipal vs. RCRA or TSCA landfill). In addition any liquid waste would need to be tested to assure that PCBs are not present above 0.5 ug/L. All tools and equipment used in the school initial cleanup must be decontaminated for reuse following self-implementing decontamination procedures in 40 CFR 761.79(c)(2).

Please let me know if you have any questions concerning this message. I can be reached via my work line. Thank you."

She's basically say we need to know how the District will handle "waste" generated. This should be fairly simple.

Steven S. Armann, Manager
RCRA Corrective Action Office
USEPA Region 9
75 Hawthorne Street
San Francisco, CA 94105

Phone: 415-972-3352
Fax: 415-947-3533
Email: armann.steve@epa.gov

From: Lyon, Sandra [<mailto:slyon@smmusd.org>]
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6624 Dume Drive
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310 457 1809 t
www.erwdesign.com

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From: Lyon, Sandra
Sent: Wednesday, December 11, 2013 1:46 PM
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Cc: santos.carmen@epa.gov
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Would we be doing this for all of the classrooms or just those with high wipe samples?

Sandra Lyon
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Sent: Wednesday, December 11, 2013 1:59 PM
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Subject: RE: Classroom cleanup

Up to you folks. My recommendation would be to prioritize those that with the high wipe samples. However, it is my understanding that the only room with high wipe samples that is occupied is the library. I don't see the needed to quickly clean rooms that are occupied.

Steven S. Armann, Manager
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Phone: 415-972-3352
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Sandra Lyon
Superintendent
Santa Monica-Malibu Unified School District
1651 Sixteenth St.
Santa Monica, CA 90404
Tel: 310.450.8338 X 70241
FAX: 310.581.1138
www.smmusd.org

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From: Elaine Rene-Weissman [<mailto:elaine@erwdesign.com>]
Sent: Wednesday, December 11, 2013 9:46 AM
To: Lyon, Sandra; Maez, Jan; Lieberman, Laurie; mkatchen@phylmar.com
Subject: Classroom cleanup

Good Morning,

I understand that cleaning the classrooms might be 'out of order' but Jennifer DeNicola has sent an email to the parents saying we MUST have this done over the winter break.

There's not much time between now and the Board of Ed meeting, but if the District can respond to this head on, it would avert a political mess.

Regards,
Elaine René-Weissman, Architect + LEED AP
SMMUSD District Liaison
ERW DESIGN
6624 Dume Drive
Malibu, CA 90265
310 457 1809 t
www.erwdesign.com

Lyon, Sandra

From: Wahrenbrock, Sarah
Sent: Friday, December 13, 2013 12:51 PM
To: armann.steve@epa.gov; wilson.patrick@epa.gov; Cota, Thomas@DTSC
(Thomas.Cota@dtsc.ca.gov); sblack@dtsc.ca.gov
Cc: Lyon, Sandra; Leon-Vazquez, Maria; Maez, Jan; Washington, Debra Moore; Deloria, Terry
Subject: Thank you!

****This email was sent on behalf of Superintendent Lyon.****

Dear Steve, Patrick, and Tom,

Thank you for traveling to the Santa Monica-Malibu Unified School District to meet with our Board of Education and members of the school community. I believe that your expert analysis and opinions went a long way to help our governance team and the public understand the current situation and the importance of prudent next steps.

We are committed to working with the government health and environmental regulatory agencies to review the plan for further testing, best practices cleaning and any further steps needed to assure the safety of the Malibu campus. Thank you for so graciously sharing your time and expertise with our community, both in the meeting and in the many calls that you have taken.

I wish you a happy holiday season and look forward to working with you in the New Year.

Thank You,
Sandra Lyon
Superintendent
Santa Monica-Malibu Unified School District
310.450.8338 x70-229 or 70-240
310.581.1138 (fax)

Lyon, Sandra

From: Armann, Steve <Armann.Steve@epa.gov>
Sent: Monday, December 16, 2013 8:13 AM
To: Lyon, Sandra
Subject: PCBs in Schools

Sandy, give me until noon today to figure a good path forward on dealing with the PCBs in the schools. Thanks.

Steven S. Armann, Manager
RCRA Corrective Action Office
USEPA Region 9
75 Hawthorne Street
San Francisco, CA 94105

Phone: 415-972-3352
Fax: 415-947-3533
Email: armann.steve@epa.gov

Lyon, Sandra

From: Lyon, Sandra
Sent: Monday, December 16, 2013 8:21 AM
To: Armann, Steve
Subject: Re: PCBs in Schools

Great. If you want to talk before then as you think about our cleaning plan, I'll be available after 10. Thanks.

Sent from my iPhone

On Dec 16, 2013, at 8:11 AM, "Armann, Steve" <Armann.Steve@epa.gov> wrote:

Sandy, give me until noon today to figure a good path forward on dealing with the PCBs in the schools. Thanks.

Steven S. Armann, Manager
RCRA Corrective Action Office
USEPA Region 9
75 Hawthorne Street
San Francisco, CA 94105

Phone: 415-972-3352
Fax: 415-947-3533
Email: armann.steve@epa.gov

Lyon, Sandra

From: Armann, Steve <Armann.Steve@epa.gov>
Sent: Tuesday, December 17, 2013 2:41 PM
To: r_e_rutkowski@att.net
Subject: Malibu Techers Demand Broader Toxic Testing at School (EPA Control Number AX-14-000-1932)

Dear Mr. Rutkowski,

Thank you very much for your e-mail dated November 25, 2013, to the EPA Administrator alerting her to the environmental concerns at Malibu High School. I have been asked to respond directly to your e-mail.

The primary concern noted in your e-mail is the teachers demand for a full site assessment. The Santa Monica Malibu Unified School District (District) discussed their plans to address your concerns at a public School Board meeting on December 12, 2013. At that meeting, the District Superintendent notified the School Board that she intends to hire a qualified consultant to work with the California Department of Toxic Substances Control (DTSC) to develop a plan to investigate potential soil contamination at the Malibu High School. For additional information on the District's plans please go to <http://www.smmusd.org/PublicNotices/Malibu.html>.

With regard to the PCB concerns at the Malibu High School, please see the copied e-mail I sent to Superintendent Lyon on November 21, 2013. Based on preliminary conversations with Superintendent Lyon, I fully expect that the District will implement the best management practices as suggested in my e-mail and submit an appropriate PCB cleanup plan for EPA approval.

If you have any questions or concerns please call me. Thank you.

Steven S. Armann, Manager
RCRA Corrective Action Office
USEPA Region 9
75 Hawthorne Street
San Francisco, CA 94105

Phone: 415-972-3352
Fax: 415-947-3533
Email: armann.steve@epa.gov

From: Armann, Steve
Sent: Thursday, November 21, 2013 3:57 PM
To: 'Lyon, Sandra'
Cc: Huetteman, Tom; Scott, Jeff; Barhite, Steven; Wilson, Patrick; Santos, Carmen; Baylor, Katherine; Taylor, Katherine; Keener, Bill; Tyahla, Stephen; Mogharabi, Nahal; Heller, Zoe; Beach, John; Priselac, Adrienne; Campopiano, Jorine; John, Steven; Kennedy, Aisha; McDaniel, Doug; 'tcota@dtsc.ca.gov'
Subject: PCB's in Malibu High School

Dear Sandra:

We appreciate the opportunity to speak with you, representatives of the Malibu Middle and High Schools Environmental Task Force (Task Force), and representatives from other regulatory agencies that participated in the call yesterday afternoon. Until now, EPA's role in this matter has been to provide technical assistance to you and the Task

Force. However, during yesterday's call we were informed that caulk samples show concentrations of PCBs above 50 ppm.

PCBs in caulk or other building materials at 50 ppm or above is not authorized for use under the Toxic Substances Control Act (TSCA). As such, the School District will need submit for EPA approval a PCB Cleanup Plan consistent with requirements in 40 CFR 761.61(c). In general, we envision that the plan will include the steps described in General Steps for Cleanup Plan noted at the end of this message. I recommend that we schedule a meeting by mid December 2013 to discuss the cleanup plan in more detail.

In reference to the indoor air data that you provided to EPA, we have completed a preliminary review of that data. **The PCB concentrations observed in the 10 air samples collected all show concentrations that are within EPA's acceptable risk range for PCB exposure in a residential setting.** A number of air samples also demonstrated "non-detect" results. Consistent with our discussion yesterday, our residential exposure scenarios assume that individuals are exposed to contaminated media 24 hours a day, 350 days/yr, for 30 years. This is a much more conservative exposure setting than would be expected in a typical school exposure scenario.

EPA has also developed site-specific exposure scenarios for schools which assume that children are exposed in the classroom setting for 10 hrs/day, 180 days/yr, for 6 years. **Our preliminary review of the airborne sampling results confirmed that all observations, albeit limited, are well below the health-based thresholds established by EPA for elementary & high school age children, and adult staff.** We are still conducting a comprehensive review of the wipe sample data.

Based on the preliminary results & limited sampling information available to us to date, we have no reason to believe that there is an immediate or acute threat to the health of the children or the staff at the school from the levels of PCB contamination found.

In light of the fact that certain caulk samples exceed 50 ppm PCBs and wipe samples are showing PCBs in surface areas, we recommend that the School District consider implementing appropriate Best Management Practices (BMPs) as described in EPA's Fact Sheet, "PCBs in Caulk in Older Buildings," December 20, 2012 (<http://www.epa.gov/pcbsincaulk/#determine>). These BMPs may include:

- Encouraging children to wash their hands with soap and water often and before eating.
- Cleaning to reduce dust and residue inside buildings.
 - Use vacuums with high-efficiency particulate air (HEPA) filters.
 - Use a wet or damp cloth or mop to clean surfaces.
 - Do not sweep with dry brooms; minimize the use of dusters.
 - Wash surfaces, windowsills, walls, and objects often in rooms known to have PCB-containing caulk or other PCB containing materials.
- Ventilating rooms before being occupied (bring in fresh air).

We are available to discuss implementation of BMPs at your earliest convenience. We would consider implementation of BMPs to be "interim actions to reduce risk" and not a final cleanup plan.

Additional information on research that EPA has conducted on PCBs in schools is available in the document "Polychlorinated Biphenyls (PCBs) in School Buildings: Sources, Environmental Levels, & Exposures" (EPA/600/R-12/051/Sept 30, 2012/ www.epa.gov.ord).

General Steps for Cleanup Plan

- Inspection of school buildings to identify via observation, and where applicable via testing, other potential sources of PCBs such as paint, fluorescent light ballasts, window glaze material, and ceiling tiles.
- Removal and disposal of caulk material and any other source(s) of PCBs present at the school. Disposal to be consistent with TSCA and state regulations.

- Testing of surfaces (e.g., concrete, masonry, metal) underlying the caulk or other PCB material such as paint.
- Cleanup of surfaces that have been in contact with PCB sources such as caulk consistent with a cleanup level to be established by EPA and procedures to be approved in the plan.
- Inspection of the ventilation system and collection of bulk dust samples for analysis, if in sufficient amount. Wipe samples should be collected, otherwise.
- Cleaning of the ventilation system, if necessary; and demonstration of the system's efficacy pre and post cleanup.
- Sampling and analysis of soils within 3 to 5 feet from school buildings; and removal of soils containing PCBs above a cleanup level to be established by EPA.
- Post-cleanup re-testing of indoor air within the school to verify cleanup efficacy. This testing is to include collection of background outdoor air samples.
- Post-cleanup re-testing of critical surfaces within the school building such as student desks, teachers' desks, and tables.
- Sampling and Analysis Plan detailing sampling and laboratory analysis procedures.
- Schedule to conduct the tasks required in the cleanup plan.

Although the list of tasks above may seem overwhelming, we will work with the School District to ensure the cleanup is planned in an efficient and effective manner. If you have any questions please feel free to call me or my staff. We look forward to working with you to address this situation. Thank you.

Steven S. Armann, Manager
RCRA Corrective Action Office
USEPA Region 9
75 Hawthorne Street
San Francisco, CA 94105

Phone: 415-972-3352
Fax: 415-947-3533
Email: armann.steve@epa.gov

Lyon, Sandra

From: Armann, Steve <Armann.Steve@epa.gov>
Sent: Tuesday, December 17, 2013 4:26 PM
To: Lyon, Sandra
Cc: Baylor, Katherine
Subject: Air sampling

Sandy, please have your folks consult with Kathy Baylor (415-972-3351) on the air and wipe sampling plan. Thanks.

Steven S. Armann, Manager
RCRA Corrective Action Office
USEPA Region 9
75 Hawthorne Street
San Francisco, CA 94105

Phone: 415-972-3352
Fax: 415-947-3533
Email: armann.steve@epa.gov

Lyon, Sandra

From: Lyon, Sandra
Sent: Tuesday, December 17, 2013 4:49 PM
To: 'Armann, Steve'
Cc: Baylor, Katherine
Subject: RE: Air sampling

Will do. Thanks,
Sandy

Sandra Lyon
Superintendent
Santa Monica-Malibu Unified School District
1651 Sixteenth St.
Santa Monica, CA 90404
Tel: 310.450.8338 X 70241
FAX: 310.581.1138
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From: Armann, Steve [<mailto:Armann.Steve@epa.gov>]
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75 Hawthorne Street
San Francisco, CA 94105

Phone: 415-972-3352
Fax: 415-947-3533
Email: armann.steve@epa.gov

Lyon, Sandra

From: Wilson, Patrick <Wilson.Patrick@epa.gov>
Sent: Tuesday, December 17, 2013 5:02 PM
To: Zander, Maia
Cc: Armann, Steve; Mogharabi, Nahal; Huetteman, Tom; Lyon, Sandra
Subject: RE: PCB question about Malibu High School

Good Afternoon Dr. Zander,

It was a pleasure speaking with you this afternoon regarding the results of the limited & preliminary PCB testing at Malibu High School. As we discussed, there has been plenty of confusion between the regulatory triggers for PCBs found in the Toxic Substances Control Act (TSCA) & the EPA's health or risk-based concentrations for air, water or impacted soils that we consider to be safe – or without appreciable long-term harm.

As we discussed, polychlorinated biphenyls or PCBs are regulated under TSCA. Unlike many federal environmental regulations, TSCA is not delegated to our state partners. Under TSCA, concentrations of impacted caulk or other building materials equal to or above 50 ppm is considered an unauthorized use (there are limited & specific exemptions spelled out in the law). Because some of the Malibu HS caulk samples were analyzed & found to have PCB concentrations in excess of this regulatory trigger concentration (50 ppm), it is now considered an unauthorized use & subject to regulation by TSCA.

We cannot emphasize enough that the 50 ppm regulatory trigger is not a health or risk-based standard nor guideline. That is to say, the 50 ppm concentration is not directly nor indirectly related to PCBs ability to elicit disease in humans.

As an Agency, EPA applies health or risk-based approaches to determine the amount or concentration of PCBs that are safe, or that are without appreciable long-term harm in air, water & soils. Air, water, soils & impacted foods are the primary routes by which individuals are exposed to elevated levels of PCBs in the US.

We realize that exposure to a contaminant or chemical is necessary before the contaminant can induce illness. We also realize that the higher the levels of exposure from impacted air, water, soils or foods – the greater the risk – or the greater the likelihood of developing an illness which has been associated with that contaminant.

Elevated exposures can generally occur in two fashions – acute exposure or high levels for short windows of time - & chronic exposures or trace levels for long windows of time. Based upon the limited & preliminary data shared with us to date, your situation falls into the chronic exposure category.

We have compared the max concentration found in any air sample from Malibu HS to EPA's health or risk-based guidelines. The site-specific guideline developed for NY City schools in conjunction with our Region II office is 0.2 ug/m3. The max PCB sample found in air at Malibu is 0.06 ugPCB/m3 air. The max concentration found in the air is roughly a factor of 10 or an order of magnitude below this guideline – and from that perspective the levels of PCBs found in the air have not been associated with illness or the ability to elicit illness.

We also compared the max concentration found in any air sample with EPA's Regional Screening Levels (RSLs) for a residential exposure scenario. As we discussed 0.0043 ugPCB/m3 of air to 0.43 ugPCB/m3 is our "acceptable risk range" for PCB exposures in residential air – and those airborne concentrations are roughly equivalent to a lifetime excess cancer risk (or likelihood) of 1 in a million to 100 in a million. The max concentration found at Malibu HS (0.06) is roughly equivalent to a 10 in a million excess risk of developing cancer assuming a 30-year duration of practically continuous exposure.

Again, when we compare the max concentration found (rather than the more typical average concentration) with our "acceptable risk range" we find that the levels identified in air are consistent with the levels specified in this range.


Steve Armann has spoken with the Superintendent's office about the potential to conduct near-term cleaning of rooms found with dust impacted by PCBs. Some of the dust samples had elevated levels of PCBs – and they should be remediated to reduce the exposure hazard. There were no airborne samples identified in this very preliminary sampling event to convince the Agency that the air was not safe to breathe based upon the concentrations of PCBs found to date.

It is my understanding that the school district will enter into an enforceable agreement with the Agency to remove impacted caulk, to re-test the air in continuing to ensure its safety, and to institute "Best Management Practices" to clean & remove impacted dust found on the surface of some buildings & rooms.

I hope this is useful Dr. Zander, please don't hesitate to contact me directly if we can offer additional clarification.

Best Regards...

..patrick

 United States Environmental Protection Agency

Patrick Wilson, Ph.D., M.P.H. | Senior Regional Toxicologist | Regional Incident Coordination Team
415.972.3354 | wilson.patrick@epa.gov
US EPA Region IX | 75 Hawthorne St. (WST-5) San Francisco, CA 94105-3901
<http://www.epa.gov/region9/>

From: Zander, Maia [<mailto:mzander@smmusd.org>]
Sent: Tuesday, December 17, 2013 12:58 PM
To: Wilson, Patrick
Subject: PCB question about Malibu High School

Hi Dr. Wilson,

Thank you SO much for coming to Malibu High School last week and talking to us. You were able to really clarify a lot of things for us!

I have a question for you, and I completely understand if you are not able to answer them for me. I am trying to convey some of what you said to my parents, and I am wondering if I could get anything from you in writing. The two things you said that really resonated with me were:

1. The distinction between regulatory concerns and health concerns--you made a clear distinction between the two and said that there was a far greater regulatory concern here than there was a health concern. From the levels of PCBs you have seen in our testing (which was not done by you), you said that the probability of getting sick was so low that it was considered theoretical. If you could explain that to me in a message that you would be comfortable with me sharing to my students and parents, I would really appreciate it.
2. This one might be more problematic for you, so I understand if you can't say anything about this... My classes have been moved from a windowless room with new flooring and paint (although it has NOT been tested for PCBs) into the library, where there were the highest levels of PCBs found in the wipe samples. In your opinion, is there any scientific reason for this decision?

I am trying to send a message out to my families tonight, so if you have time to get back to me ASAP, I would really appreciate it. Of course, if you aren't comfortable giving me a written statement about these two points, I will completely understand. I don't want to get you into any trouble!

Thanks again for everything you have done for us!
:)Maia

Dr. Maia Zander
Malibu High School Orchestras

Lyon, Sandra

From: Armann, Steve <Armann.Steve@epa.gov>
Sent: Wednesday, December 18, 2013 7:28 AM
To: Lyon, Sandra
Subject: FW: PCB question about Malibu High School

FYI ...

Steven S. Armann, Manager
RCRA Corrective Action Office
USEPA Region 9
75 Hawthorne Street
San Francisco, CA 94105

Phone: 415-972-3352
Fax: 415-947-3533
Email: armann.steve@epa.gov

From: Wilson, Patrick
Sent: Tuesday, December 17, 2013 5:14 PM
To: Armann, Steve; Mogharabi, Nahal; Huetteman, Tom
Subject: FW: PCB question about Malibu High School

FYI -

From: Zander, Maia [<mailto:mzander@smmusd.org>]
Sent: Tuesday, December 17, 2013 5:04 PM
To: Wilson, Patrick
Subject: RE: PCB question about Malibu High School

That was exactly the information I needed. Thank you SOOOOOOO much!!! This clearly took a lot of time on your part, and I can't tell you how much I appreciate it.

:)Maia

Dr. Maia Zander
Malibu High School Orchestras

From: Wilson, Patrick [Wilson.Patrick@epa.gov]
Sent: Tuesday, December 17, 2013 5:01 PM
To: Zander, Maia
Cc: Armann, Steve; Mogharabi, Nahal; Huetteman, Tom; Lyon, Sandra
Subject: RE: PCB question about Malibu High School

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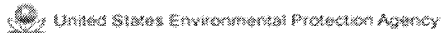
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I hope this is useful Dr. Zander, please don't hesitate to contact me directly if we can offer additional clarification.

Best Regards...

..patrick



Patrick Wilson, Ph.D., M.P.H. | Senior Regional Toxicologist | Regional Incident Coordination Team
415.972.3354 | wilson.patrick@epa.gov
US EPA Region IX | 75 Hawthorne St. (WST-5) San Francisco, CA 94105-3901
<http://www.epa.gov/region9/>

From: Zander, Maia [<mailto:mzander@smmusd.org>]

Sent: Tuesday, December 17, 2013 12:58 PM

To: Wilson, Patrick

Subject: PCB question about Malibu High School

Hi Dr. Wilson,

Thank you SO much for coming to Malibu High School last week and talking to us. You were able to really clarify a lot of things for us!

I have a question for you, and I completely understand if you are not able to answer them for me. I am trying to convey some of what you said to my parents, and I am wondering if I could get anything from you in writing. The two things you said that really resonated with me were:

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I am trying to send a message out to my families tonight, so if you have time to get back to me ASAP, I would really appreciate it. Of course, if you aren't comfortable giving me a written statement about these two points, I will completely understand. I don't want to get you into any trouble!

Thanks again for everything you have done for us!
:)Maia

Dr. Maia Zander
Malibu High School Orchestras

Lyon, Sandra

From: Lyon, Sandra
Sent: Wednesday, December 18, 2013 6:36 PM
To: armann.steve@epa.gov; 'tcota@dstc.gov'
Subject: FW: Study Session Questions

Hi to both of you,

First of all, thanks for all of your assistance as we navigate all of this. I have two quick questions.

- 1) Would you be able to look at the questions in blue below and see if you have a response? These are questions being asked in response to q/a from the study session.
- 2) Could I schedule two meetings, one staff one parents, for some time the first or second week of January? We could do one in the afternoon one in the evening. These would not be BOE meetings, but informal meetings

People who were at the teacher meeting and at the study session—save a handful—have reported feeling much better about all that is taking place and the safety of students and staff. I think, given we are not doing anything at Cabrillo right away, I will need expert answers to the questions about why we aren't testing everything immediately and the health risks they are worried about.

Again, thank you for your assistance.
Sandy

Sandra Lyon
Superintendent
Santa Monica-Malibu Unified School District
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From: Jennifer deNicola [<mailto:jd18@me.com>]
Sent: Wednesday, December 18, 2013 5:35 PM
To: Elaine Rene-Weissman
Cc: Eli Craig; Heather Anderson; Maez, Jan; Block, Jerry; John Sibert; Lieberman, Laurie; Lambert, Lisa; Michael Jacobson; mkatchen@phylmar.com; Levy, Nancy; Herkner, Pamela; Lyon, Sandra; Seth Jacobson; Soniya Perl; Pieper, Yalile
Subject: Re: Study Session Questions

Elaine:

I just want to make it clear that what I did was put in "my own words" a brief summary for parents, not transcribe the study session. I did this so parents who have not watched the study session could see a glimpse of what was said. These are parent questions and I want the parents to see the answers to their questions.

Just wanted to clear that up.
Thanks,
Jen

On Dec 18, 2013, at 4:34 PM, Elaine Rene-Weissman wrote:

Hello All,

Jennifer transcribed the Q+A portion of the Board of Ed study session.

Below are my comments, in blue.

2:00:45 EPA: Dust samples need to come down. Good cleaning is needed before long term plan is implemented. **WHAT ARE ACCEPTABLE REDUCTION LEVELS?**

2:02:00 EPA: After school cleaning EPA will do a verification sample post clean-up.
WILL THIS BE A HEPA CLEANING OR DEEP CLEANING OR BOTH?

Steve A: EPA fully intends to look for other PCB sources **WHAT IS THE TIMETABLE?**

2:22:25 Should kids dig in soil and at Cornucopia?

Steve A: we have no data, we cannot make any conclusion **CORNUCOPIA TO BE PART OF NEW TESTING?**

2:24:05 What does a soil testing of the entire property look like?

Tom (DTSC): We have not seen anything in the soil that is an acute threat. Nothing higher than 1.04ppm for PCBs.
SO WE DON'T TEST ENTIRE PROPERTY?

2:34:10 If the PCBs levels are "safe" why are we having so many health conditions? (This will be redirected to Public Health Department) **HOW DO WE COMPARE TO ANY OTHER SCHOOL POPULATION? ARE THERE SUCH STUDIES?**

2:44:00 Process?

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Elaine René-Weissman, Architect + LEED AP
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ERW DESIGN
6624 Dume Drive
Malibu, CA 90265
310 457 1809 t

Lyon, Sandra

From: Armann, Steve <Armann.Steve@epa.gov>
Sent: Thursday, December 19, 2013 6:29 AM
To: Lyon, Sandra; tcota@dstc.gov
Cc: Wilson, Patrick
Subject: RE: Study Session Questions

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BTW, my cell number is 650-274-5765. Please call if you have any questions between December 20 and January 7. Otherwise, call Patrick at 415-972-3354. I believe he will be in the office for most of the next two weeks.

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USEPA Region 9
75 Hawthorne Street
San Francisco, CA 94105

Phone: 415-972-3352
Fax: 415-947-3533
Email: armann.steve@epa.gov

From: Lyon, Sandra [mailto:slyon@smmusd.org]
Sent: Wednesday, December 18, 2013 6:36 PM
To: Armann, Steve; tcota@dstc.gov
Subject: FW: Study Session Questions

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From: Jennifer deNicola [<mailto:jd18@me.com>]
Sent: Wednesday, December 18, 2013 5:35 PM
To: Elaine Rene-Weissman
Cc: Eli Craig; Heather Anderson; Maez, Jan; Block, Jerry; John Sibert; Lieberman, Laurie; Lambert, Lisa; Michael Jacobson; mkatchen@phylmar.com; Levy, Nancy; Herkner, Pamela; Lyon, Sandra; Seth Jacobson; Soniya Perl; Pieper, Yalile
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From: Lyon, Sandra
Sent: Thursday, December 19, 2013 8:25 AM
To: Armann, Steve
Cc: tcota@dstc.gov; Wilson, Patrick
Subject: Re: Study Session Questions

Great. Is there a day/time that you prefer?

Sent from my iPhone

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From: Wilson, Patrick <Wilson.Patrick@epa.gov>
Sent: Thursday, December 19, 2013 4:04 PM
To: Jennifer deNicola
Cc: Lyon, Sandra; elaine@erwdesign.com; Armann, Steve; Cota, Thomas@DTSC (Thomas.Cota@dtsc.ca.gov)
Subject: Malibu High School PCB Question/Answers

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From: Elaine Rene-Weissman <elaine@erwdesign.com>
Sent: Thursday, December 19, 2013 4:08 PM
To: 'Wilson, Patrick'; 'Jennifer deNicola'
Cc: Lyon, Sandra; 'Armann, Steve'; 'Cota, Thomas@DTSC'
Subject: RE: Malibu High School PCB Question/Answers

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Version: 2014.0.4259 / Virus Database: 3658/6929 - Release Date: 12/17/13

Lyon, Sandra

From: Lyon, Sandra
Sent: Thursday, December 19, 2013 6:18 PM
To: 'Wilson, Patrick'
Cc: Maez, Jan; Lieberman, Laurie
Subject: RE: Malibu High School PCB Question/Answers

Patrick,

We agree that best management practices will include the ventilation system when we implement them districtwide. It is not our intent to clean the ventilation system as part of the initial cleaning of the classrooms of concern at MHS at this time. And that cleaning is set to take place over Winter Break.

We elected not to include cleaning of the ventilation system at this time because we want to give our environmental engineering consultants the opportunity, when they come on board, to include them in the further environmental classroom assessments.

We want to avoid confusion between the initial round of cleaning and the BMP that will be instituted with EPA and our engineering firm's assistance.

Thanks,
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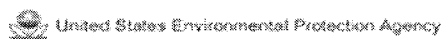
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Below are my comments, in blue.

2:00:45 EPA: Dust samples need to come down. Good cleaning is needed before long term plan is implemented. **WHAT ARE ACCEPTABLE REDUCTION LEVELS?**

EPA would prefer that all wipe sample results remain below 10 ug/100 cm². However, this is a regulatory level or trigger under the Toxic Substances Control Act (TSCA) rather than a health or risk-based guideline similar in nature to the health-based guideline that we have developed for air.

2:02:00 EPA: After school cleaning EPA will do a verification sample post clean-up.
WILL THIS BE A HEPA CLEANING OR DEEP CLEANING OR BOTH?

It is our current understanding that the cleaning will consist of vacuuming with a HEPA filter & wiping down impacted surfaces with a wet cloth. This approach is consistent with our "Best Management Practices". Cleaning of the ventilation system should also be included.

Steve A: EPA fully intends to look for other PCB sources **WHAT IS THE TIMETABLE?**

EPA will require a visual inspection of selected rooms to determine if additional sources of PCBs exist. However, should air sampling results continue to remain below our health-based guidelines, then it is probably not necessary to remove other sources. If the findings from additional air samples exceed EPA's health-based guidelines for air, then evaluation & mitigation of the other sources of PCBs will be necessary. EPA has committed to reviewing & turning around any remediation plans submitted by the district within one calendar week.

2:22:25 Should kids dig in soil and at Cornucopia?

EPA has not reviewed any data from this portion of the campus – therefore we are not in a position to comment on potential levels of contamination at Cornucopia.

Steve A: we have no data, we cannot make any conclusion **CORNUCOPIA TO BE PART OF NEW TESTING?**

If this portion of the campus is included in the long-term sampling & analysis plan – then it will be part of the additional testing regime.

2:24:05 What does a soil testing of the entire property look like?

Tom (DTSC): We have not seen anything in the soil that is an acute threat. Nothing higher than 1.04ppm for PCBs.

SO WE DON'T TEST ENTIRE PROPERTY?

Tom Cota – Calif. Department of Toxic Substances Control issue.

2:34:10 If the PCBs levels are "safe" why are we having so many health conditions? (This will be redirected to Public Health Department) **HOW DO WE COMPARE TO ANY OTHER SCHOOL POPULATION? ARE THERE SUCH STUDIES?**

The vast majority of health conditions – particularly chronic health conditions like cancer – are influenced by many factors. EPA considers these health conditions to be multi-factorial in nature. The concentrations of PCBs found from the limited & preliminary airborne sampling & analysis to date, remain below the concentrations that EPA has associated with the development of cancer.

2:44:00 Process?

EPA promises a one week turn around to approve a pre-vetted testing plan. Interview for environmental Engineering firms to be early January. EEF will create a testing plan, then submit to EPA. Testing occurs quickly, approx 2 week lab turn around, then EEF will crunch data. Takes EEF about 20-30 days to do a summary report, during this time, the EPA will look at raw data. As per DTSC, soil sample and gas takes 1 day. The analytical time for lab is longest, 2-3 weeks. Tom Cota, DTSC says cleanup needs to happen when kids are not present.

WHEN IS THERE SUCH A TIME?

2:57:40 We have all read about what has gone on in NY. The concern is cleaning the schools in NY did not reduce the airborne PCBs. PCBs were absorbed into other materials around it, like the particle board and drywall. These schools now ventilate the air every day, removing toxins from the air. **WOULD THIS BE ACCEPTABLE TO MALIBU?**

Ventilation is necessary in certain classrooms in New York because these rooms continue to suffer with elevated PCB concentrations which remain above EPA's health-based guideline for schools. These rooms have had the primary source (caulk, paint, mastic, etc) of PCBs removed - yet continue to demonstrate levels of PCBs above the Agency's health-based guidelines. We have not observed this level of contamination in air nor caulk at Malibu High School based upon the current, albeit limited, dataset.

03:00:45 Can you explain the outdoor background air vs. indoor air? EPA: sometimes the outdoor air contains elevated toxins that are over the 1 in 1M target. We do not know the levels in Malibu. This is the nature of our environment. **WILL WE TEST MALIBU 'TYPICAL' LEVELS?**

EPA has observed anthropogenic background concentrations of PCBs in outdoor or ambient air within the same order of magnitude as the concentration of PCBs that is equivalent to a 1 in a million excess risk of developing cancer. 0.004 ugPCB/m3 of air is roughly equivalent to a 1 in 1 million excess cancer risk under long-term & residential type exposure scenarios. 0.003 ugPCB/m3 of air has been measured in ambient or background urban air samples in the US. The Agency will request an outdoor air or ambient air sample to be included in the expanded sampling & analysis plan.

Unfortunately, in the United States a number of chemical contaminants are present at background concentrations which either exceed or are roughly equivalent to a 1 in 1 million excess risk of developing cancer.

Elaine René-Weissman, Architect + LEED AP
SMMUSD District Liaison

ERW DESIGN
6624 Dume Drive
Malibu, CA 90265
310 457 1809 t
www.erwdesign.com

Lyon, Sandra

From: Wilson, Patrick <Wilson.Patrick@epa.gov>
Sent: Friday, December 20, 2013 1:14 PM
To: Lyon, Sandra
Cc: Baylor, Katherine; Armann, Steve; Huetteman, Tom; Keener, Bill; Mogharabi, Nahal; Wilson, Patrick; Mark Katchen; Jennifer deNicola
Subject: Malibu High School Interim Cleanup Plan

Sent on behalf of S. Armann:

Dear Superintendent Lyon:

Thank you for the opportunity to review the district's interim subject work plan for Malibu High School. The plan, transmitted to EPA this morning titled "Limited PCB Remediation, Verification Sampling Work Plan for Malibu High School/Middle School" is appropriate for this project and is acceptable to **EPA only** with the conditions below.

As I mentioned at the board meeting on 12 December, the district's interim cleanup plan does not require EPA Approval.

Based on the information received this morning, and as we understand it, the plan generally involves the following:

- The plan covers pre- and post-sampling in certain rooms in building E, the library and music rooms.
- Pre cleaning air and wipe samples in rooms that were not previously sampled.
- HEPA vacuuming around windowsills, followed by wet cloth cleaning.
- Wet cleaning of all accessible surface areas (wall, floors, desks, etc).
- Post-sampling of air and surfaces (wipe sampling).
- Cleaning of the "ventilation" system will be limited to wet wiping. We understand that what has previously been referred to as a ventilation system in these particular rooms is actually a room heating system without any ducting.

Please note, EPA's acceptance of the plan is conditioned on the following:

- Verification sampling of the air (post-cleaning) be conducted as described in the plan with the additional requirement that all windows in the rooms tested shall be closed.
- Notification to EPA 72 hours prior to conducting verification air sampling. EPA will send a staff member from the San Francisco Region IX Office to be on-site. Our sampling & analysis expert will collect a limited number of independent samples to ensure quality control, and our staff member will also be on-site to review chain of custody procedures.

It is important to note that this interim plan is separate from the cleanup plan necessary to address PCB impacted caulk at Malibu H.S. The School District will need to submit, for EPA review and approval, a cleanup plan that will address the PCB impacted caulk in and around the buildings at Malibu High School. EPA looks forward to receiving that plan and will work with the Santa Monica-Malibu Unified School District to ensure the cleanup is efficient and effective.

Steven S. Armann, Manager
RCRA Corrective Action Office
USEPA Region 9
75 Hawthorne Street
San Francisco, CA 94105

Phone: 415-972-3352

Fax: 415-947-3533

Email: armann.steve@epa.gov

Lyon, Sandra

From: Lyon, Sandra
Sent: Friday, December 20, 2013 5:55 PM
To: armann.steve@epa.gov; wilson.patrick@epa.gov; Baylor, Katherine (Baylor.Katherine@epa.gov)
Cc: Lynn Murphy (lmurphy@fagenfriedman.com); Elliott, Mark E. (mark.elliott@pillsburylaw.com); Maez, Jan; Huetteman, Tom; Mark Katchen; Mogharabi, Nahal
Subject: 72 hour notice

Hello all:

Thanks for all your assistance this week so that we are able to move forward with cleaning and testing.

My understanding is, based on information that you sent to us, you need 72-hour notice for the verification testing that is to be done post-cleaning so that the EPA can send a representative from Region IX, San Francisco to be on-site.

That testing will be scheduled for January 2nd and 3rd 2014. We wanted to give you ample time to arrange for your representative to be there.

Please let me know if you need anything else.

Happy Holidays!
Sandy

Sandra Lyon
Superintendent
Santa Monica-Malibu Unified School District
1651 Sixteenth St.
Santa Monica, CA 90404
Tel: 310.450.8338 X 70241
FAX: 310.581.1138
www.smmusd.org

This email message is for the sole use of the intended recipient(s) and may contain privileged and confidential information. Any unauthorized review, use, disclosure or distribution is prohibited.

If you are not the intended recipient, please contact the sender by reply email and destroy all copies of the original message. Thank you.

Wahrenbrock, Sarah

From: Wahrenbrock, Sarah
Sent: Wednesday, December 04, 2013 9:48 AM
To: Cyrus Rangan (crangan@ph.lacounty.gov) (crangan@ph.lacounty.gov);
abellomo@ph.lacounty.gov; armann.steve@epa.gov; wilson.patrick@epa.gov;
DRaphael@dtsc.ca.gov; mark.elliott@pillsbury.com; Lieberman, Laurie;
tfinders@fagenfriedman.com
Cc: Lyon, Sandra; mkatchen@phylmar.com; Maez, Jan
Subject: SMMUSD: Conference Call Next Week

Dear All,
Superintendent Lyon asked that I schedule a 45- to 60-minute conference call sometime next week to discuss and plan for the study session that will take place at the beginning of the regular Board of Education meeting on Thursday, December 12.

Sandy is available for the call on Mon., Dec. 9 before 10am or Wed., Dec. 11 between 10am and 1pm. Please let me know what works best for everyone, and I will try to schedule this call for when the majority of the participants are available.

The call-in number is: 888.757.2748
The passcode is: 153470

Thank You,
Sarah Wahrenbrock
Assistant to the Superintendent
Santa Monica-Malibu Unified School District
310.450.8338 x70-229
310.581.1138 (fax)

Wahrenbrock, Sarah

From: Wahrenbrock, Sarah
Sent: Wednesday, December 04, 2013 3:23 PM
To: wilson.patrick@epa.gov; armann.steve@epa.gov; sblack@dtsc.ca.gov; Cyrus Rangan (crangan@ph.lacounty.gov) (crangan@ph.lacounty.gov); abellomo@ph.lacounty.gov
Cc: Lyon, Sandra; Lieberman, Laurie; mkatchen@phylmar.com
Subject: SMMUSD Board of Education Meeting: Dec. 12. 2013

Dear All,

Superintendent Lyon would very much appreciate it if you could be available during the study session (part of the regular Board of Education meeting) addressing the environmental concerns in Malibu on Thursday, December 12, 2013, at 6:00pm. The meeting will be at Malibu City Hall in the city council chambers (23825 Stuart Ranch Road, Malibu, CA 90265 – first floor).

The agenda item reads:

This study session is designed to allow the Board of Education to be fully updated about the environmental concerns at Malibu High School and Juan Cabrillo Elementary School. The board will be given an overview of the preliminary work done to date, including preliminary test results, as well as hear recommendations for a plan of action, including hiring an environmental engineering firm and the implementation of best management practices.

Representatives from the Environmental Protection Agency, Region 9; the Department of Toxic Substance Control; and the Los Angeles County Department of Public Health will participate in the study session to answer board members' questions and explain their respective roles in the district's next steps.

Please let me know if you will be available to attend. Thank you!

Thank You,
Sarah Wahrenbrock
Assistant to the Superintendent
Santa Monica-Malibu Unified School District
310.450.8338 x70-229
310.581.1138 (fax)

Wahrenbrock, Sarah

From: Armann, Steve <Armann.Steve@epa.gov>
Sent: Wednesday, December 04, 2013 3:36 PM
To: Wahrenbrock, Sarah
Cc: tcota@dtsc.ca.gov; Wilson, Patrick
Subject: RE: SMMUSD Board of Education Meeting: Dec. 12. 2013

Sarah, EPA will be there. I just got off the phone with folks from DTSC. We would like to tour the campus earlier in the day to get a better understanding of the scope of soil and pcb issues.

Steven S. Armann, Manager
RCRA Corrective Action Office
USEPA Region 9
75 Hawthorne Street
San Francisco, CA 94105

Phone: 415-972-3352
Fax: 415-947-3533
Email: armann.steve@epa.gov

From: Wahrenbrock, Sarah [mailto:swahrenbrock@smmusd.org]
Sent: Wednesday, December 04, 2013 3:23 PM
To: Wilson, Patrick; Armann, Steve; sblack@dtsc.ca.gov; Cyrus Rangan (crangan@ph.lacounty.gov) (crangan@ph.lacounty.gov); abellomo@ph.lacounty.gov
Cc: Lyon, Sandra; Lieberman, Laurie; mkatchen@phylmar.com
Subject: SMMUSD Board of Education Meeting: Dec. 12. 2013

Dear All,

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Representatives from the Environmental Protection Agency, Region 9; the Department of Toxic Substance Control; and the Los Angeles County Department of Public Health will participate in the study session to answer board members' questions and explain their respective roles in the district's next steps.

Please let me know if you will be available to attend. Thank you!

Thank You,
Sarah Wahrenbrock
Assistant to the Superintendent
Santa Monica-Malibu Unified School District

310.450.8338 x70-229
310.581.1138 (fax)

Wahrenbrock, Sarah

From: Wahrenbrock, Sarah
Sent: Wednesday, December 04, 2013 3:42 PM
To: wilson.patrick@epa.gov; Cyrus Rangan (crangan@ph.lacounty.gov)
(crangan@ph.lacounty.gov); abellomo@ph.lacounty.gov; sblack@dtsc.ca.gov;
tcota@dtsc.ca.gov
Cc: Lyon, Sandra; Lieberman, Laurie; mkatchen@phylmar.com
Subject: SMMUSD: Speaking to MHS Teachers

Dear All,

Superintendent Lyon was hoping you could come earlier on Thursday, December 12, 2013 – around 3:00pm – to speak with teachers at Malibu High School. Malibu High School is located at 30215 Morning View Drive, Malibu, CA 90265. The principal is Mr. Jerry Block (310.457.6801, ext. 74-277).

Thank You,
Sarah Wahrenbrock
Assistant to the Superintendent
Santa Monica-Malibu Unified School District
310.450.8338 x70-229
310.581.1138 (fax)

Wahrenbrock, Sarah

From: Wahrenbrock, Sarah
Sent: Thursday, December 05, 2013 10:35 AM
To: Cota, Thomas@DTSC
Cc: Armann, Steve
Subject: RE: SMMUSD Board of Education Meeting: Dec. 12. 2013

I will send the conference call Outlook invite right now!

Thank You,
Sarah Wahrenbrock
Assistant to the Superintendent
Santa Monica-Malibu Unified School District
310.450.8338 x70-229
310.581.1138 (fax)

From: Cota, Thomas@DTSC [mailto:Thomas.Cota@dtsc.ca.gov]
Sent: Thursday, December 05, 2013 10:27 AM
To: Wahrenbrock, Sarah
Cc: Armann, Steve
Subject: RE: SMMUSD Board of Education Meeting: Dec. 12. 2013

Hi Sara, would you please add me to your contact list for future meetings. I also understand that there is a conference call planned for next week prior to the workshop. I am planning to participate in this call.

Thank you.

Tom

Thomas M. Cota
Branch Chief
School Evaluation and Brownfield Outreach
Department of Toxic Substances Control

From: Armann, Steve [mailto:Armann.Steve@epa.gov]
Sent: Wednesday, December 04, 2013 3:36 PM
To: Wahrenbrock, Sarah
Cc: Cota, Thomas@DTSC; Wilson, Patrick
Subject: RE: SMMUSD Board of Education Meeting: Dec. 12. 2013

Sarah, EPA will be there. I just got off the phone with folks from DTSC. We would like to tour the campus earlier in the day to get a better understanding of the scope of soil and pcb issues.

Steven S. Armann, Manager
RCRA Corrective Action Office
USEPA Region 9
75 Hawthorne Street
San Francisco, CA 94105

Phone: 415-972-3352

Fax: 415-947-3533

Email: armann.steve@epa.gov

From: Wahrenbrock, Sarah [<mailto:swahrenbrock@smmusd.org>]

Sent: Wednesday, December 04, 2013 3:23 PM

To: Wilson, Patrick; Armann, Steve; sblack@dtsc.ca.gov; Cyrus Rangan (crangan@ph.lacounty.gov) (crangan@ph.lacounty.gov); abellomo@ph.lacounty.gov

Cc: Lyon, Sandra; Lieberman, Laurie; mkatchen@phylmar.com

Subject: SMMUSD Board of Education Meeting: Dec. 12. 2013

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Representatives from the Environmental Protection Agency, Region 9; the Department of Toxic Substance Control; and the Los Angeles County Department of Public Health will participate in the study session to answer board members' questions and explain their respective roles in the district's next steps.

Please let me know if you will be available to attend. Thank you!

Thank You,

Sarah Wahrenbrock

Assistant to the Superintendent

Santa Monica-Malibu Unified School District

310.450.8338 x70-229

310.581.1138 (fax)

Wahrenbrock, Sarah

From: Wahrenbrock, Sarah
Sent: Thursday, December 05, 2013 3:08 PM
To: Cyrus Rangan (crangan@ph.lacounty.gov) (crangan@ph.lacounty.gov);
abellomo@ph.lacounty.gov; armann.steve@epa.gov; wilson.patrick@epa.gov;
mark.elliott@pillsbury.com; Lieberman, Laurie; tfinders@fagenfriedman.com;
sblack@dtsc.ca.gov; 'Cota, Thomas@DTSC'; Lyon, Sandra; Maez, Jan;
mkatchen@phylmar.com
Subject: Monday's Conference Call w/ SMMUSD

Dear All,

I have sent the details of Monday's 8-9am conference call as a meeting request in Outlook. Thank you in advance for your participation.

Superintendent Lyon wondered if your organizations' Public Information Officers could also be available for the conference call. She would also like you to contact Terilyn Finders before Monday's call: 310.903.7895 (cell). Terilyn has been assisting our school district with communication.

Thank You,
Sarah Wahrenbrock
Assistant to the Superintendent
Santa Monica-Malibu Unified School District
310.450.8338 x70-229
310.581.1138 (fax)

Wahrenbrock, Sarah

From: Wahrenbrock, Sarah
Sent: Monday, December 09, 2013 10:14 AM
To: wilson.patrick@epa.gov; armann.steve@epa.gov; sblack@dtsc.ca.gov; Cyrus Rangan (crangan@ph.lacounty.gov) (crangan@ph.lacounty.gov); abellomo@ph.lacounty.gov
Cc: Lyon, Sandra; Lieberman, Laurie; mkatchen@phylmar.com
Subject: FW: SMMUSD Board of Education Meeting: Dec. 12. 2013

Dear All,

In order to make sure I have an accurate head count and the correct name plates, please confirm who from your organizations will participate in this Thursday's study session. Thank you!

Thank You,
Sarah Wahrenbrock
Assistant to the Superintendent
Santa Monica-Malibu Unified School District
310.450.8338 x70-229
310.581.1138 (fax)

From: Wahrenbrock, Sarah
Sent: Wednesday, December 04, 2013 3:23 PM
To: wilson.patrick@epa.gov; armann.steve@epa.gov; 'sblack@dtsc.ca.gov'; Cyrus Rangan (crangan@ph.lacounty.gov) (crangan@ph.lacounty.gov); 'abellomo@ph.lacounty.gov'
Cc: Lyon, Sandra; Lieberman, Laurie; mkatchen@phylmar.com
Subject: SMMUSD Board of Education Meeting: Dec. 12. 2013

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Representatives from the Environmental Protection Agency, Region 9; the Department of Toxic Substance Control; and the Los Angeles County Department of Public Health will participate in the study session to answer board members' questions and explain their respective roles in the district's next steps.

Please let me know if you will be available to attend. Thank you!

Thank You,
Sarah Wahrenbrock
Assistant to the Superintendent
Santa Monica-Malibu Unified School District
310.450.8338 x70-229

310.581.1138 (fax)

Wahrenbrock, Sarah

From: Armann, Steve <Armann.Steve@epa.gov>
Sent: Monday, December 09, 2013 10:24 AM
To: Wahrenbrock, Sarah
Cc: Wilson, Patrick
Subject: RE: SMMUSD Board of Education Meeting: Dec. 12. 2013

I will be attending along with:

Patrick Wilson, PhD.
Senior Regional Toxicologist
EPA Region 9

Steven S. Armann, Manager
RCRA Corrective Action Office
USEPA Region 9
75 Hawthorne Street
San Francisco, CA 94105

Phone: 415-972-3352
Fax: 415-947-3533
Email: armann.steve@epa.gov

From: Wahrenbrock, Sarah [<mailto:swahrenbrock@smmusd.org>]
Sent: Monday, December 09, 2013 10:14 AM
To: Wilson, Patrick; Armann, Steve; sblack@dtsc.ca.gov; Cyrus Rangan (crangan@ph.lacounty.gov) (crangan@ph.lacounty.gov); abellomo@ph.lacounty.gov
Cc: Lyon, Sandra; Lieberman, Laurie; mkatchen@phylmar.com
Subject: FW: SMMUSD Board of Education Meeting: Dec. 12. 2013

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Santa Monica-Malibu Unified School District
310.450.8338 x70-229
310.581.1138 (fax)

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Sent: Wednesday, December 04, 2013 3:23 PM
To: wilson.patrick@epa.gov; armann.steve@epa.gov; 'sblack@dtsc.ca.gov'; Cyrus Rangan (crangan@ph.lacounty.gov) (crangan@ph.lacounty.gov); 'abellomo@ph.lacounty.gov'
Cc: Lyon, Sandra; Lieberman, Laurie; mkatchen@phylmar.com
Subject: SMMUSD Board of Education Meeting: Dec. 12. 2013

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Thank You,
Sarah Wahrenbrock
Assistant to the Superintendent
Santa Monica-Malibu Unified School District
310.450.8338 x70-229
310.581.1138 (fax)

Wahrenbrock, Sarah

From: Wahrenbrock, Sarah
Sent: Tuesday, December 10, 2013 1:50 PM
To: wilson.patrick@epa.gov; armann.steve@epa.gov; sblack@dtsc.ca.gov; Cyrus Rangan (crangan@ph.lacounty.gov) (crangan@ph.lacounty.gov); abellomo@ph.lacounty.gov; Loaretta Keith
Subject: NEED FEEDBACK: Contact List to Hand Out
Attachments: 121213_Contact List.docx

Dear All,

Attached is a contact list sheet that we will be handing out at the school board meeting on Thursday. PLEASE REVIEW IT and let me know if you would like your administrative assistants' names and extensions listed as well as/in place of yours.

Thank You,
Sarah Wahrenbrock
Assistant to the Superintendent
Santa Monica-Malibu Unified School District
310.450.8338 x70-229
310.581.1138 (fax)

**Santa Monica Malibu Unified School District
Schools Health and Safety Contacts**

Santa Monica Malibu Unified School District

Sandra Lyon
Superintendent
slyon@smmusd.org
310-450-8338, ext. 70229 or 70240

Sarah Wahrenbrock
Executive Assistant to the Superintendent
swahrenbrock@smmusd.org
310-450-8338, ext. 70229

All media inquiries should be directed to Ms. Wahrenbrock, to expedite responses. The Superintendent's office strives to respond to inquiries within 24 hours. Some inquiries may be addressed through District-issued Q & A pieces, as part of ongoing communications efforts.

**Environmental Protection Agency
Region IX**

Steve Armann
Manager, RCRA Corrective Action Office
Armann.steve@epa.gov
415-972-3352

Patrick Wilson, Ph.D.
Senior Regional Toxicologist
Wilson.patrick@epa.gov
415-972-3354

As a matter of policy, all media inquiries must be addressed to the EPA Press Office:

Nahal Mogharabi
Public Affairs
Mogharabi.nahal@epa.gov
213-244-1815

Department of Toxic Substances Control

Thomas Cota
Branch Chief
School Evaluations and Brownfield Outreach
thomas.cota@dtsc.ca.gov
714-484-5459

Los Angeles County Department of Public Health

Angelo J. Bellomo, REHS
Director of Environmental Health
abellomo@ph.lacounty.gov
626-430-5374

Cyrus Rangan, M.D.
Director
Bureau of Toxicology and Environmental Assessment
crangan@ph.lacounty.gov

Wahrenbrock, Sarah

From: Wahrenbrock, Sarah
Sent: Tuesday, December 10, 2013 2:16 PM
To: wilson.patrick@epa.gov; armann.steve@epa.gov; sblack@dtsc.ca.gov; Cyrus Rangan (crangan@ph.lacounty.gov) (crangan@ph.lacounty.gov); abellomo@ph.lacounty.gov; Loaretta Keith
Cc: Lyon, Sandra; mkatchen@phylmar.com
Subject: FYI: Message RE: Thursday's Study Session

Dear Environmental Experts,

The superintendent asked that I share the below email with you as a courtesy. It has been shared with our school communities and the Malibu Schools Environmental Task Force.

****This email was sent on behalf of Superintendent Lyon.****

Dear All,

This Thursday, December 12, the Board of Education's regular meeting will be relocated to Malibu City Hall and preceded by a two-hour study session, which will allow the Board to examine in-depth the current questions, concerns and action plan regarding environmental health at the Malibu schools.

Board Study Session Details

- 6:00-8:00 p.m.
- Malibu City Hall

Board Regular Meeting

- Closed session 4:30-6:00 p.m.
- Regular meeting 6:00 p.m.

Agenda for Study Session:

- I. Background/Action to Date
Malibu School Community's Health Concerns and Questions
- II. Next Steps/Continued Testing and Improved Maintenance Efforts
- III. Input from Government Environmental and Health Agencies

Invited to attend/present and take Board and community:

Steve Armann, PCB Program Coordinator, Environmental Protection Agency (EPA) Region 9

Patrick Wilson, Ph. D., Senior Regional Toxicologist, EPA, Region 9

Tom Cota, Branch Chief, School Evaluation & Brownfield Outreach, Department of Toxic Substance Control (DTSC)

Angelo Bellomo, Director, Environmental Health, Los Angeles Department of Public Health (DPH)

IV. Public Questions (30 minutes)

Note: Throughout the meeting, all attendees are welcome to submit questions in writing to the Board President, who will work to integrate them into the discussion and/or secure responses through a follow-up Q and A, which will be posted on the District website.

V. Board to Review/Give Direction on the Proposed Next-Steps Action Plan

The meeting location was selected to provide convenient access for Malibu employees and residents; however, if you are unable to attend, the meeting will be replayed on in Malibu on Government Access Ch. 3 every Saturday at 8:00 p.m. and posted online at http://santamonica.granicus.com/ViewPublisher.php?view_id=5.

If you have questions, please feel free to submit them in writing to Sarah Wahrenbrock, my administrative assistant, at mhsfaq@smmusd.org; we will strive to respond to all questions within 24 hours.

Thank you,

Sandra Lyon

Superintendent

Santa Monica-Malibu Unified School District

310.450.8338 x70-229 or 70-240

310.581.1138 (fax)

Wahrenbrock, Sarah

From: Wahrenbrock, Sarah
Sent: Wednesday, December 11, 2013 2:47 PM
To: armann.steve@epa.gov; wilson.patrick@epa.gov
Subject: SMMUSD Board Meeting Handouts

Mr. Armann and Dr. Wilson,

We are looking forward to having you participate in our study session tomorrow evening in Malibu. I was informed that you would be bringing copies of an EPA fact sheet for the board members and public. I wanted to give you a heads up to bring about 100 copies of your handout. That will cover the board members, senior staff, my files, and then copies for the members of the public we are expecting.

Please let me know if you have any questions. Thanks!

Thank You,
Sarah Wahrenbrock
Assistant to the Superintendent
Santa Monica-Malibu Unified School District
310.450.8338 x70-229
310.581.1138 (fax)

Wahrenbrock, Sarah

From: Wahrenbrock, Sarah
Sent: Wednesday, December 11, 2013 3:39 PM
To: armann.steve@epa.gov; wilson.patrick@epa.gov; sblack@dtsc.ca.gov; Barnett, Lim@DTSC (Lim.Barnett@dtsc.ca.gov); thomas.cota@dtsc.ca.gov; abellomo@ph.lacounty.gov; Cyrus Rangan (crangan@ph.lacounty.gov) (crangan@ph.lacounty.gov); lkeith@ph.lacounty.gov
Cc: Lyon, Sandra; mkatchen@phylmar.com; Maez, Jan
Subject: SMMUSD: Questions for Agencies for Thursday's Meeting
Attachments: 121213_Questions for Agencies.docx

Dear All,

Attached is a list of questions the superintendent has compiled from the board, staff, and parents regarding the environmental concerns in Malibu. She wanted you to see them prior to the meeting, as they will most likely be asked during the study session.

Thank You,
Sarah Wahrenbrock
Assistant to the Superintendent
Santa Monica-Malibu Unified School District
310.450.8338 x70-229
310.581.1138 (fax)

SMMUSD
Board of Education Meeting
Study Session: 6-8pm

Questions to Agencies

These are the questions on the minds of our employees, parents and students; our goal is to collect the necessary information and consult with the proper government agencies/experts to assure everyone that our classrooms and campuses are healthy learning and working environments. To provide this assurance, these are the questions that the District must address. It is imperative that we strive to answer these concerns, so I will present the questions to you as they have been presented to us. Thank you in advance for helping our school community understand this topic and the most responsible course of action.

PCBs

- What are PCBs?
- Are the levels found at MHS a health concern?
- Would they cause cancer?
- Please explain the difference between health and regulatory levels, and why are they "different?"
- Do the levels of PCBs in the caulk concern you? Can they migrate?
- Is it safe to attend the school at this time?
- I understand that this situation has been examined closely in New York State; what can we learn from their situation and how they have handled the matter?
- Should the schools be vacated when they are cleaned (using best practices)?

Soil Testing and Review of Arcadis Report

- You have reviewed the Arcadis report; can you please comment on the action taken? Was it adequate/appropriate?
- There have been concerns raised about protections for the workers, can you comment on this please.
- There have been accusations that we hid this information and work from the public; will you please comment on the public notification process?
- Can you comment on/provide perspective on the levels found?

Wahrenbrock, Sarah

From: Wahrenbrock, Sarah
Sent: Wednesday, December 11, 2013 4:54 PM
To: armann.steve@epa.gov; wilson.patrick@epa.gov; sblack@dtsc.ca.gov; Barnett, Lim@DTSC (Lim.Barnett@dtsc.ca.gov); thomas.cota@dtsc.ca.gov; abellomo@ph.lacounty.gov; Cyrus Rangan (crangan@ph.lacounty.gov) (crangan@ph.lacounty.gov); lkeith@ph.lacounty.gov
Cc: Lyon, Sandra
Subject: Study Session Agenda
Attachments: 121213_Study Session Agenda FINAL.docx

Dear All,

Attached is the agenda for tomorrow evening's study session, which begins at 6:00pm. (Hardcopies will be provided at the meeting.)

Thank You,
Sarah Wahrenbrock
Assistant to the Superintendent
Santa Monica-Malibu Unified School District
310.450.8338 x70-229
310.581.1138 (fax)

**SMMUSD Board of Education
December 12, 2013
Study Session Agenda
6:00-8:00pm**

I. Background & Employee/Community Concerns	Superintendent Lyon
II. Action Taken To Date	Superintendent Lyon
III. Next-Steps Action Plan	Superintendent Lyon
IV. Government Agency Comments & Questions from the Board of Education	Mr. Steve Armann (EPA) Dr. Patrick Wilson (EPA) Mr. Thomas Cota (DTSC) Mr. Stewart Black (DTSC) Mr. Angelo Bellomo (DPH) Dr. Cyrus Rangan (DPH)
V. Questions from Malibu Schools Environmental Task Force <ul style="list-style-type: none">Will include written questions gathered from public	Ms. Jennifer deNicola
VI. Public Comments <ul style="list-style-type: none">All speakers are limited to two or three minutes, depending on the number of speakers. The Brown Act states that Board members may not engage in discussion of issues raised during Public Comments, except to ask clarifying questions or to refer the matter to staff.	Vice President Leon-Vazquez
VII. Closing Comments & Direction from the Board of Education	Superintendent Lyon Board Members

(Throughout the meeting, index cards will be available for members of the public to submit a written question to be answered during Section V.)

Wahrenbrock, Sarah

From: Wahrenbrock, Sarah
Sent: Friday, December 13, 2013 12:51 PM
To: armann.steve@epa.gov; wilson.patrick@epa.gov; Cota, Thomas@DTSC
(Thomas.Cota@dtsc.ca.gov); sblack@dtsc.ca.gov
Cc: Lyon, Sandra; Leon-Vazquez, Maria; Maez, Jan; Washington, Debra Moore;
tdeloria@smmusd.org
Subject: Thank you!

****This email was sent on behalf of Superintendent Lyon.****

Dear Steve, Patrick, and Tom,

Thank you for traveling to the Santa Monica-Malibu Unified School District to meet with our Board of Education and members of the school community. I believe that your expert analysis and opinions went a long way to help our governance team and the public understand the current situation and the importance of prudent next steps.

We are committed to working with the government health and environmental regulatory agencies to review the plan for further testing, best practices cleaning and any further steps needed to assure the safety of the Malibu campus. Thank you for so graciously sharing your time and expertise with our community, both in the meeting and in the many calls that you have taken.

I wish you a happy holiday season and look forward to working with you in the New Year.

Thank You,
Sandra Lyon
Superintendent
Santa Monica-Malibu Unified School District
310.450.8338 x70-229 or 70-240
310.581.1138 (fax)

Wahrenbrock, Sarah

From: Wahrenbrock, Sarah
Sent: Tuesday, November 19, 2013 1:22 PM
To: Lyon, Sandra; Cyrus Rangan (crangan@ph.lacounty.gov); abellomo@ph.lacounty.gov; armann.steve@epa.gov; wilson.patrick@epa.gov; DRaphael@dtsc.ca.gov; lkeith@ph.lacounty.gov
Cc: Mark Katchen; Maez, Jan
Subject: RE: SMMUSD Meeting

Dear All,

The superintendent asked that I provide you with the location of tomorrow's meeting as well as the call-in number if you are unable to attend in person.

Wed., Nov. 20
3:00-5:00pm PST
1651 16th Street, Santa Monica, CA 90404
Call-in number: 888.757.2748
Participant code: 153470
Host code: 1534701 (this is for Sandy)

We have some parking spots available to the public in our lot and there is some non-metered parking on the east side of 16th Street, but you might want to bring change for the meters on the west side of 16th Street just in case.

Please let me know if you have any questions.

Thank You,
Sarah Wahrenbrock
Assistant to the Superintendent
Santa Monica-Malibu Unified School District
310.450.8338 x70-229
310.581.1138 (fax)

From: Lyon, Sandra
Sent: Monday, November 18, 2013 7:39 PM
To: Cyrus Rangan (crangan@ph.lacounty.gov); abellomo@ph.lacounty.gov; armann.steve@epa.gov; wilson.patrick@epa.gov; DRaphael@dtsc.ca.gov
Cc: Wahrenbrock, Sarah; Mark Katchen; Maez, Jan
Subject: SMMUSD Meeting

Hi all,

I either spoke with you today or left a message for you. As you all know we have been going through an environmental testing process at Malibu High School and Cabrillo Elementary School due to concerns brought forth by teachers at MHS. We have completed our initial testing. So far we have results from Radon, EMF, CO₂ and we have the PCB air sampling and some wipe sample results and should have the bulk sample results by the end of the week. We have a very concerned community and now need to bring in the agencies responsible for setting standards around evaluation criteria and remediation as we determine next steps. I have a Board meeting on Thursday and we have agendized a discussion with the BOE to bring them up to speed, with a study session to be set for some time in December.

I would like to see if you, or a representative, can meet with me (or ring in by phone) on Wednesday at 3 p.m. to assist me in guiding the district forward. I would also like to see if any of you can attend the BOE meeting on Thursday at 7:30 should the BOE or public have questions.

I know this is not much advance warning and appreciate any assistance we can receive.

Thank you,

Sandra Lyon
Superintendent
Santa Monica-Malibu Unified School District
1651 Sixteenth St.
Santa Monica, CA 90404
Tel: 310.450.8338 X 70241
FAX: 310.581.1138
www.smmusd.org

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If you are not the intended recipient, please contact the sender by reply email and destroy all copies of the original message. Thank you.

Wahrenbrock, Sarah

From: Wahrenbrock, Sarah
Sent: Tuesday, November 19, 2013 8:38 AM
To: Mark Katchen
Subject: RE: Need Info: Malibu Schools Task Force Meeting Summary

Much appreciated!

Thank You,
Sarah Wahrenbrock
Assistant to the Superintendent
Santa Monica-Malibu Unified School District
310.450.8338 x70-229
310.581.1138 (fax)

From: Mark Katchen [mailto:mkatchen@phylmar.com]
Sent: Tuesday, November 19, 2013 8:33 AM
To: Wahrenbrock, Sarah
Subject: RE: Need Info: Malibu Schools Task Force Meeting Summary

Sarah, please see attached.

Mark Katchen, CIH
Managing Principal
The Phylmar Group, Inc.
310-474-3937
310-446-1826 (fax)
www.phylmar.com

Empowering Communities of Environmental Health and Safety/Sustainability Professionals



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From: Wahrenbrock, Sarah [mailto:swahrenbrock@smmusd.org]
Sent: Tuesday, November 19, 2013 8:19 AM
To: mkatchen@phylmar.com
Subject: Need Info: Malibu Schools Task Force Meeting Summary

Mark,
Attached is the draft task force meeting summary from October 24. Page two shows a reporting section on radon, but there is no information. What should the meeting summary read for this section?

Thank You,
Sarah Wahrenbrock
Assistant to the Superintendent
Santa Monica-Malibu Unified School District
310.450.8338 x70-229

310.581.1138 (fax)

Wahrenbrock, Sarah

From: Wahrenbrock, Sarah
Sent: Friday, November 22, 2013 11:54 AM
To: Mark Katchen
Subject: RE: Task Force Meeting: 12/4/13

Thank you!

Thank You,
Sarah Wahrenbrock
Assistant to the Superintendent
Santa Monica-Malibu Unified School District
310.450.8338 x70-229
310.581.1138 (fax)

From: Mark Katchen [mailto:mkatchen@phylmar.com]
Sent: Friday, November 22, 2013 11:35 AM
To: Wahrenbrock, Sarah
Subject: RE: Task Force Meeting: 12/4/13

Sarah, I am available.

Mark

Mark Katchen, CIH
Managing Principal
The Phylmar Group, Inc.
310-474-3937
310-446-1826 (fax)
www.phylmar.com

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From: Wahrenbrock, Sarah [mailto:swahrenbrock@smmusd.org]
Sent: Friday, November 22, 2013 11:20 AM
To: mkatchen@phylmar.com; Lambert, Lisa; Levy, Nancy; Lieberman, Laurie; Lyon, Sandra; Maez, Jan; Block, Jerry; Herkner, Pamela; Pieper, Yalile; michaelrichardjacobson@gmail.com; seth@jcipr.com; heatherla@me.com; soniya.perl@yahoo.com; Jd18@me.com; jsibert@malibucity.org; elaine@erwdesign.com
Cc: Ford, Nedra
Subject: Task Force Meeting: 12/4/13
Importance: High

Dear Task Force Members,

Due to the Thanksgiving holiday and the fact that the superintendent and Board of Education president will be out of town for the annual CSBA conference on 12/5/13, the next Malibu Schools Environmental Task Force meeting would not occur until 12/12/13.

However, both Sandy and Laurie agreed that it is critical for the task force to meet in advance of the Board of Education meeting on 12/12/13. That being said, they would like to schedule a task force meeting on Wednesday, 12/4/13 at 10:00am. I know that the task force meetings are held on Thursdays, but in order to get the task force together that week, it will need to be on Wednesday. Our apologies for any scheduling difficulties this might cause.

Please let us know if you will be able to attend the task force meeting on Wednesday, 12/4/13 at 10:00am. Thank you and have a great Thanksgiving!

Thank You,
Sarah Wahrenbrock
Assistant to the Superintendent
Santa Monica-Malibu Unified School District
310.450.8338 x70-229
310.581.1138 (fax)

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PO #	Invoice #	Date	Amount	Ck. #	Date
142645	13110402	11/4/2013	28,585.95	20974866	11/25/2013
142645	13112201	11/22/2013	73,860.69	20990195	12/5/2013
142645	13122401	12/24/2013	37,407.04	21035287	1/6/2014
142645	13120520	12/5/2013	12,913.96	21094387	1/31/2014 AMEX on 1/17/2014
142645	14012006	1/20/2014	11,382.36		To be paid on 02/06/2014
143265	14012006	1/20/2014	64,229.66		To be paid on 02/06/2014
143265	14012006	1/20/2014	36,470.34		To be paid on 02/13/2014
143737	14012006	1/20/2014	5,529.66		To be paid after 02/20/2014
143737			12,470.34		To be used to pay Final Invoice

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BILL TO

Santa Monica Malibu Unified School Dist.
1651 16th Street
Santa Monica, CA 90404
Attn: Sandra Lyon

UC 14050

DUE DATE	CASE NAME	PROJECT NUMBER
	MHS and Cabrillo Initial E...	365-001A

DATE	QTY	DESCRIPTION	RATE	AMOUNT
		MHS and Cabrillo Initial Eval.		
10/10/2013	3.6	Initial meeting with S. Lyons to discuss case. Began document review.	250.00	900.00
10/11/2013	4.7	Reviewed preliminary air monitoring results, coordinated faculty interview schedule, continued EIR document review reviewed and commented on media statements.	250.00	1,175.00
10/13/2013	1.3	Continued document review and coordinated faculty interview schedule.	250.00	325.00
10/14/2013	7.2	Traveled to MHS and conducted faculty interviews	250.00	1,800.00
10/15/2013	6.8	Traveled to J. Cabrillo Elementary and conducted staff interviews	250.00	1,700.00
10/16/2013	5.2	Met with staff to provide project direction on FAQ development and prep for task force meeting. Met with LA County Dept of Env. Health. Reviewed and commented on media alerts. Reviewed draft IAQ report for Bldg. E.	250.00	1,300.00
10/17/2013	7.6	Traveled to MHS and facilitated task force meeting. Attended and was introduced at Board meeting. Reviewed and commented on media communications.	250.00	1,900.00
10/18/2013	2.1	Responded to task force and Board member emails. Began researching sampling methods for sampling plan.	250.00	525.00
10/20/2013	4.3	Began drafting environmental evaluation plan. Reviewed and forwarded draft FAQs.	250.00	1,075.00
10/21/2013	3.75	Responded to emails and spoke with a parent. Reviewed and commented on task force meeting minutes. Modified FAQs per task force input. Prepared PTSA and Faculty presentations.	250.00	937.50
10/22/2013	3.1	Responded to task force email questions and staff telephone calls. Completed draft sampling plan.	250.00	775.00
10/23/2013	2.2	Participated in conference call with District representatives. Responded to email requests. Prepared for task force and PTA meetings.	250.00	550.00

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Attn: Sandra Lyon

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www.phylmar.com
FED ID 95-4652949

DUE DATE	CASE NAME	PROJECT NUMBER
	MHS and Cabrillo Initial E...	365-001A

DATE	QTY	DESCRIPTION	RATE	AMOUNT
10/24/2013	10.8	Travel to MHS and facilitate Task Force meeting. Conference call with District staff and communications consultant. Site walk of MHS to identify location of septic tank manhole identified by LA County Health Department. Presentation and Q&A at PTSA meeting.	250.00	2,700.00
10/25/2013	6.4	Solicited bids for labs to perform sample analysis. Travel to MHS to present at faculty meeting. Reviewed and edited fact sheets	250.00	1,600.00
10/27/2013	2.7	Revised draft sampling plan to reflect changes requested by Task Force. Send final draft sampling plan to LA County Health Dept. for review. Updated S. Lyon on project status.	250.00	675.00
10/28/2013	2.4	Assembled sampling quote. Participated in interview with Malibu Times reporter. Drafted response to P. Rosenfeld. Call with S. Lyon.	250.00	600.00
10/29/2013	2.4	Conference call with S. Lyon and J. Maze. Call with Task Force member. Re-draft email to P. Rosenfeld. Discussion with LA County Health Department staff. Interviewed by Malibu Times reporter.	250.00	600.00
10/30/2013	3.6	Responded to emails and logistics for environmental sampling. Participated in conference call with District staff. Responded to LA County Dept. of Env. Health inquiry regarding MHS manhole.	250.00	900.00
10/31/2013	9.2	Traveled and attended task force meeting. Coordinated sampling program. Revised sampling plan per LA County DPH comments. Provided input for media release of task force meeting.	250.00	2,300.00
10/10/2013		Mileage Reimbursement - Meeting at SMMUSD	4.52	4.52
10/14/2013		Mileage Reimbursement - Travel to MHS	31.64	31.64
10/15/2013		Mileage Reimbursement - Travel to J. Cabrillo Elementary	31.64	31.64
10/16/2013		Mileage Reimbursement - Travel to MHS and District HQ	36.16	36.16

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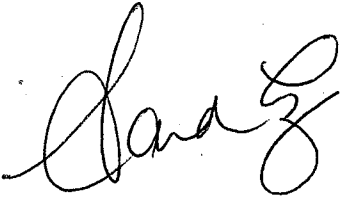
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BILL TO

Santa Monica Malibu Unified School Dist.
1651 16th Street
Santa Monica, CA 90404
Attn: Sandra Lyon

DUE DATE	CASE NAME	PROJECT NUMBER
	MHS and Cabrillo Initial E...	365-001A

DATE	QTY	DESCRIPTION	RATE	AMOUNT
10/17/2013		Mileage Reimbursement - Travel to MHS	31.64	31.64
10/24/2013		Mileage Reimbursement - Travel to MHS	31.64	31.64
10/25/2013		Mileage Reimbursement - Travel to MHS	31.64	31.64
10/31/2013		Mileage Reimbursement - Travel to MHS	31.64	31.64
10/30/2013		Radon in Air Analysis - Includes 12% markup	588.00	588.00
10/21/2013		McDaniel Lambert, Inc. - October 2013 Assistance with risk communication and health issues. Media background research and development of FAQ one pager. Answers to Cabrillo staff questions for Mark. 10/21 Call with Mark to review Sampling Plan. Edits to sampling plan. Development of EMF, Radon fact sheets. FAQ Spanish translation. Review historic environmental investigations and prepare health risk summary. 10/21 Call with Mark Katchen and review environmental sampling plan. PCB Screening Level Summary. Editing risk communication presentation slides. - Includes 12% markup.	4,314.80	4,314.80
		Communication Charges - 5% of Labor	1,115.13	1,115.13
				

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Page 3

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BILL TO

Santa Monica Malibu Unified School Dist.
1651 16th Street
Santa Monica, CA 90404
Attn: Sandra Lyon

DUE DATE	CASE NAME	PROJECT NUMBER
	MHS and Cabrillo Initial E...	365-001A

DATE	QTY	DESCRIPTION	RATE	AMOUNT
11/1/2013	1	MHS and Cabrillo Initial Eval. Discussed messaging to Cabrillo staff with principal. Reviewed media communication.	250.00	250.00
11/4/2013	2.7	Reviewed EMF and CO2 sampling strategy for MHS and Cabrillo Elementary. Responded to task force emails.	250.00	675.00
11/5/2013	2.4	Responded to emails and had multiple phone calls with District staff/consultants and task force members. Interview with Malibu times reporter.	250.00	600.00
11/6/2013	2.7	Drafted response to H. Kaufman question. Responded to emails.	250.00	675.00
11/7/2013	2.4	Responded to emails. Researched contacts at New York Schools.	250.00	600.00
11/8/2013	2.3	Responded to emails. Spoke with contact at NY School Construction Authority regarding PCB program. Worked on FAQs	250.00	575.00
11/10/2013	0.66667	Drafted response to FAQs.	250.00	166.67
11/11/2013	0.7	Reviewed/discussed radon results with the lab.	250.00	175.00
11/12/2013	1.83333		250.00	458.33
11/13/2013	7.1	Prepared results tables. Reviewed PCB criterion. Discussed posting of hazardous material reports with District staff. Reviewed letters and discussion communication process with District consultant. Prepared for Task Force meeting.	250.00	1,775.00
11/14/2013	12.1	Participated in Cabrillo faculty meeting and community meeting, and Malibu Environmental Task Force meeting	250.00	3,025.00
11/14/2013	56	Communication Charges - 5% of Labor	448.75	448.75
11/15/2013	24	Mileage Reimbursement - Travel to Malibu High School for Task Force Meeting	0.565	31.64
11/15/2013	24	Mileage Reimbursement - Travel to meeting with M. Elliott	0.565	13.56
11/15/2013	12	410 - Modified EPA Method 1668 209 PCBs - Air	975.00	11,700.00
11/15/2013	12	408-P - PUF Air Media Preparation.	52.50	630.00
11/18/2013	15	413-MOD - Modified EPA Method 1668 - Wipes	975.00	14,625.00
11/18/2013	3	413-MOD - Modified EPA Method 1668 - Wipes	975.00	2,925.00

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10573 W. Pico Blvd. #194
Los Angeles, CA 90064-2348
Tel: (310) 474-3937 | Fax: (310) 446-1826
www.phylmar.com
FED ID 95-4652949

DUE DATE	CASE NAME	PROJECT NUMBER
	MHS and Cabrillo Initial E...	365-001A

DATE	QTY	DESCRIPTION	RATE	AMOUNT
11/19/2013	15	413-MOD - Modified EPA Method 1668 209 PCBs - Wipe	975.00	14,625.00
11/20/2013	5	413-209 - EPA Method 1668 209 PCBs - Solid	975.00	4,875.00
11/20/2013	15	413-209 - EPA Method 1668 209 PCBs - Solid	975.00	14,625.00
11/20/2013		First Overnight shipping charge for Bottle Order shipped to Malibu school for Panacea re-sampling event. Tracking #797086125130	220.99	220.99
11/11/2013		Shipping & Handling for the first 15 Radon tests * Outsourced fees include 5% markup.	165.75	165.75


11.25.13**Electronic Remittance Information**Bank Name: Citibank
Bank Address: 10680 West Pico Blvd | Los Angeles, CA 90064
Bank Sort Code: 322271724
Bank Acct #: 204698674
Acct Name: The Phylmar Group, Inc.
Swift #: citiUS33

Page 2

Total

\$73,860.69

PO #142645

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Invoice

DATE	INVOICE #
12/24/2013	13122401

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FED ID 95-4652949

BILL TO

Santa Monica Malibu Unified School Dist.
1651 16th Street
Santa Monica, CA 90404
Attn: Sandra Lyon

DUE DATE	CASE NAME	PROJECT NUMBER
Net 30	MHS and Cabrillo Initial E...	365-001A

DATE	QTY	DESCRIPTION	RATE	AMOUNT
12/1/2013	2.7	MHS and Cabrillo Initial Eval.		
12/2/2013	2.2	Continued drafting report	250.00	675.00
12/3/2013	0.5	Continued drafting report.	250.00	550.00
		Reviewed and commented on 11/14 and 11/21 Task Force minutes.	250.00	125.00
12/4/2013	5.5	Traveled to MHS for task force meeting. Sent PCB location tables to District for posting. Finalized draft report.	250.00	1,375.00
12/9/2013	1.5	Participated in agency conference call. Discussed sampling methods with J. Beach of EPA.	250.00	375.00
12/11/2013	2.6	Coordinated obtaining MHS cleaning proposal. Discussions with District staff and consultants. Sampling logistics	250.00	650.00
12/12/2013	11.3	Travel to MHS to attend task force meeting, met with remediation contractor, and attended faculty meeting. Travel to Malibu City Hall and attended BOE meeting.	250.00	2,825.00
12/13/2013	1.7	Calls with remediation contractor, M. Elliott and District staff.	250.00	425.00
12/15/2013	0.7	Began drafting EPA workplan	250.00	175.00
12/16/2013	1.4	Completed initial draft of MHS remediation work plan. Contacted contractor and laboratory regarding remediation proposal and cost of sample analysis.	250.00	350.00
12/17/2013	1.8	Finalized draft remediation/air sampling workplan. Telephone calls with District staff regarding plan changes. Modified plan. Reviewed IAQ evaluation of Edison.	250.00	450.00
		Communication Charges - 5% of Labor	398.75	398.75
12/13/2013		Panacea - Field Sampling	26,689.393	26,689.39
12/19/2013		12/12/13 Mileage Reimbursement	33.90	33.90
				26,723.29
12/10/2013		McDaniel Lambert - FAQ drafting and editing & PCB risk assessment. SMMUSD - 365:001A - MHS and Cabrillo Initial Eval.	2,310.00	2,310.00

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Total

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12/24/2013	13122401

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Santa Monica, CA 90404
Attn: Sandra Lyon

DUE DATE	CASE NAME	PROJECT NUMBER
Net 30	MHS and Cabrillo Initial E...	365-001A

DATE	QTY	DESCRIPTION	RATE	AMOUNT
		* Outsourced fees include 5% markup.		
		<i>Janece L. May</i> <i>12/27/13</i>		

Electronic Remittance Information

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Total

\$37,407.04

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DATE	INVOICE #
12/5/2013	13120520

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1651 16th Street
Santa Monica, CA 90404
Attn: Sandra Lyon

DUE DATE	CASE NAME	PROJECT NUMBER
Net 30	MHS and Cabrillo Initial E...	365-001A

DATE	QTY	DESCRIPTION	RATE	AMOUNT
11/15/2013	4.5	MHS and Cabrillo Initial Eval.		
11/17/2013	5.5	Meetings regarding project management. Responded to emails.	250.00	1,125.00
11/18/2013	2.8	Reviewed laboratory data and created summary and individual sample tables. Provided summaries for IEQ, Radon and EMF data tables.	250.00	1,375.00
11/19/2013	3.1	Produced summary of IEQ, Radon and EMF results. Reviewed wipe sample data. Email and phone responses.	250.00	700.00
11/20/2013	4.7	Telephone call with District staff. Telephone call with US EPA. Review and preparation of wipe sample summary.	250.00	775.00
11/21/2013	10.7	Traveled to District HQ and attended meeting/conference call with EPA, DTSC, and LA County DPH. Reviewed bulk sampling results and created a summary spreadsheet with results.	250.00	1,175.00
11/22/2013	4.2	Traveled to MHS for Task Force meeting. Traveled to SMMUSD HQ for meetings with communication specialist. Attended SMMUSD Board meeting.	250.00	2,675.00
11/25/2013	1.7	Traveled to MHS to meet with EPA. Drafted PCB monitoring summary.	250.00	1,050.00
11/26/2013	1.8	Sent lab reports to District. Discussed bulk sampling locations with staff.	250.00	425.00
11/28/2013	4.2	Review of NIOSH target risk setting policy and responding to email. Spoke with L. Grillo from NYSCA regarding PCB program.	250.00	450.00
11/29/2013	5.6	Began drafting initial sampling report.	250.00	1,050.00
12/30/2013		Continued drafting report.	250.00	1,400.00
		Communication Charges - 5% of Labor	610.00	610.00
11/17/2013		Travel to MHS for task force meeting	31.64	31.64
11/20/2013		Travel to District HQ for meeting	4.52	4.52
11/21/2013		Travel to MHS for task force meeting and District HQ for BOE meeting	36.16	36.16
11/22/2013		Travel to MHS to meet with EPA	31.64	31.64

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Swift #: citiUS33

Page 1

Total

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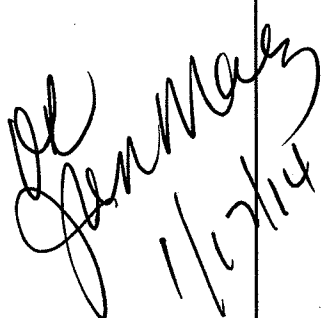
DATE	INVOICE #
12/5/2013	13120520

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www.phylmar.com
FED ID 95-4652949

BILL TO

Santa Monica Malibu Unified School Dist.
1651 16th Street
Santa Monica, CA 90404
Attn: Sandra Lyon

DUE DATE	CASE NAME	PROJECT NUMBER
Net 30	MHS and Cabrillo Initial E...	365-001A

DATE	QTY	DESCRIPTION	RATE	AMOUNT
		Total Reimbursable Expenses		103.96
				

Electronic Remittance Information

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Page 2

Total

\$12,913.96

V# 20834

P.O. #

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DATE	INVOICE #
1/20/2014	14012006

BILL TO

Santa Monica Malibu Unified School Dist.
1651 16th Street
Santa Monica, CA 90404
Attn: Janece L. Maez

Remit To:
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Los Angeles, CA 90064-2348
Tel: (310) 474-3937 | Fax: (310) 446-1826
www.phylmar.com
FED ID 95-4652949

DUE DATE	CASE NAME	PROJECT NUMBER
Net 30	MHS Pre/Post BMP Air M...	365-002A

DATE	QTY	DESCRIPTION	RATE	AMOUNT
12/18/2013	2.4	MHS Pre and Post BMP Air Monitoring Revised BMP Air Monitoring project authorization and MHS workplan as requested. Coordinated revision with contractor. Consulted on Edison school IAQ questions.	250.00	600.00
12/19/2013	6.3	Travel to MHS to attend task force meeting and walk site before pre-BMP sampling. Telephone calls regarding sampling logistics and modification of sampling plan.	250.00	1,575.00
12/20/2013	2.1	Call with EPA regarding sampling and cleaning plan. Coordination of sampling.	250.00	525.00
12/21/2013	0.3	Answered questions regarding site conditions.	250.00	75.00
12/23/2013	0.3	Discussions regarding locations for site cleanup.	250.00	75.00
12/24/2013	1	Prepared January 2-3 and 4-5 air and wipe sampling plan/instructions to technicians. Spoke with lab regarding sampling receipt and logistics for additional sampling.	250.00	250.00
12/27/2013	1	Discussed sampling logistics with laboratory and air monitoring staff	250.00	250.00
12/30/2013	1	Discussed and transmitted monitoring schedule. Coordinated logistics for January 2-5 sampling.	250.00	250.00
1/2/2014	5.9	Traveled to MHS to set up verification air sampling and inspect rooms. Reviewed pre-BMP air sampling data and prepared summary tables.	250.00	1,475.00
1/3/2014	5.7	Traveled to MHS to supervise wipe sample collection with USEPA representative.	250.00	1,425.00
1/5/2014	0.8	Post BMP sampling logistics and review of summary air sample location spreadsheet.	250.00	200.00
1/6/2014	0.5	Completed PCB air sampling chart.	250.00	125.00
1/7/2014	0.5	Discussed sampling data with J. Beach of USEPA. Discussed analysis with laboratory staff.	250.00	125.00
1/8/2014	0.3	Communication with Task Force member and District counsel.	250.00	75.00
1/10/2014	0.2	Review sampling location figures.	250.00	50.00
1/13/2014	1.8	Reviewed verification air and wipe samples and created summary results tables.	250.00	450.00

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1/20/2014	14012006

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BILL TO

Santa Monica Malibu Unified School Dist.
1651 16th Street
Santa Monica, CA 90404
Attn: Janece L. Maez

DUE DATE	CASE NAME	PROJECT NUMBER
Net 30	MHS Pre/Post BMP Air M...	365-002A

DATE	QTY	DESCRIPTION	RATE	AMOUNT
1/14/2014	3.9	Processed lab reports and field sampling logs. Discussed laboratory reports with L. Murphy and transmitted to her. Sent initial environmental evaluation report to S. Armann of EPA as requested by District. Reviewed draft letter to EPA and answered questions from EPA staff regarding verification sample results. Prepared summary tables for post-BMP air sample results.	250.00	975.00
1/15/2014	2.2	Reviewed draft transmittal letter to EPA. Reviewed cleanup contractor MHS project documents for each room. Discussed documents with L. Murphy. Communication Charges - 5% of Labor	250.00 452.50	550.00 452.50
1/2/2014		Frontier Analytical Laboratory - 1/2/14 - (15) EPA Method 1668 - Air (209 PCBs), 100% RUSH TAT SURCHARGE, (15) PUF Air Media Preparation.	28,500.00	28,500.00
1/9/2014		Field Work, Review, research, consultation, Sampling Pumps for PCB-Air, Calibrator, mileage, travel time, administrative, office support	3,657.24	3,657.24
1/13/2014		Frontier Analytical Laboratory - 1/13/2014 - (8) 8 EPA Method 1668 - Air 209 PCBs, 100% RUSH TAT SURCHARGE, (8) PUF Air Media Preparation.	15,200.00	15,200.00
1/13/2014		Frontier Analytical Laboratory - 1/13/2014 - EPA Method 1668 209 PCBs - Wipes, 100% RUSH TAT SURCHARGE	20,350.00	20,350.00
1/13/2014		Frontier Analytical Laboratory - 1/13/2014 - (2) EPA Method 1668 - Air (209 PCBs), 100% RUSH TAT SURCHARGE, (2) PUF Air Media Preparation.	3,800.00	3,800.00
1/14/2014		Frontier Analytical Laboratory - 1/14/2014 - (15) EPA Method 1668 - Air (209 PCBs), 100% RUSH TAT SURCHARGE, (15) PUF Air Media Preparation.	28,500.00	28,500.00
1/20/2014		Case 365-002A Mileage Reimbursement 12/19/2013	33.90	33.90
1/20/2014		Case 365-002A Mileage Reimbursement 1/2/2014	33.90	33.90
1/20/2014		Case 365-002A Mileage Reimbursement 1/3/2014	33.90	33.90
		Total Reimbursable Expenses		100,108.94

Electronic Remittance Information

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Bank Sort Code: 322271724
Bank Acct #: 204698674
Acct Name: The Phylmar Group, Inc.
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Page 2

Total

Page 3

Lyon, Sandra

From: Kamibayashi, Terry
Sent: Friday, November 22, 2013 3:19 PM
To: Mark Katchen
Cc: Lyon, Sandra; Maez, Jan
Subject: RE: test results

Hi Mark I could not find the specific testing that I need for my walkthrough with DLR Group specifically the CO2 results and the humidity levels. If this is available on the website please send me direction to location if not on website could you please provide for my Wednesday meeting.

From: Kamibayashi, Terry
Sent: Thursday, November 21, 2013 8:35 AM
To: 'Mark Katchen'
Cc: Lyon, Sandra; Jan Maez
Subject: test results

Hi Mark I will be working with The DLR Group next week to provide a proposal to make recommendation on Air Balance, humidity, and CO2 issues. Can you provide me the test results so that the DLR Group can investigate Malibu High and Cabrillo Elementary School with specific information.

Lyon, Sandra

From: Maez, Jan
Sent: Sunday, November 24, 2013 7:28 PM
To: Kamibayashi, Terry; Mark Katchen
Cc: Lyon, Sandra
Subject: RE: Malibu High Report
Attachments: Malibu-friable-non-friable drs111413.pdf

Terry,

This isn't really a revision (what you called it below) to their report - didn't we ask them to summarize their findings - and this is what they produced. I copied the Executive Summary in the report

From Alta Executive Summary page:

"Alta Environmental was retained by the Santa Monica Unified School District to review the most current AHERA 3-year re-inspection report and to provide a summary of 1) identified friable asbestos containing materials 2) and/or non-friable, with the potential to become, friable asbestos-containing materials at Malibu

High School, located at 30215 Morning View Drive, Malibu, California.

The summary of asbestos-containing materials included in this report is based on information included in the most current AHERA 3-year re-inspection report prepared by Alta Environmental, (#SMSD-13-1320, dated June 11, 2013). This summary of asbestos-containing materials was prepared by Tina Jordan, a Certified Asbestos Consultant and EPA Accredited Building Inspector."

I couldn't find that we had posted to the web site - should we? And did they do the same for Cabrillo?

Janece L. Maez

Associate Superintendent Business and Fiscal Services
Chief Financial Officer
1651 16th Street
Santa Monica, CA 93404
310-450-8338 ext.268
310-581-6720 fax

From: Kamibayashi, Terry
Sent: Friday, November 15, 2013 12:57 PM
To: Mark Katchen; Lyon, Sandra; Maez, Jan
Subject: FW: Malibu High Report

Malibu High School AHERA revisions as requested by Task Force

From: Cesar Ruvalcaba [<mailto:cesar.ruvalcaba@altaenviron.com>]
Sent: Friday, November 15, 2013 12:13 PM
To: Kamibayashi, Terry
Cc: David Schack
Subject: RE: Malibu High Report

Terry,
Attached is the report. please let us know if you have any questions.

Regards,

CESAR RUVALCABA, CAC, CDPH-IA,PM
PROJECT MANAGER



3777 Long Beach Blvd, Annex Building, Long Beach, CA 90807
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From: Kamibayashi, Terry [<mailto:tkamibayashi@smmusd.org>]

Sent: Thursday, November 14, 2013 5:26 PM

To: Cesar Ruvalcaba

Subject: RE: Malibu High Report-Draft

Looks good please finalize

From: Cesar Ruvalcaba [<mailto:cesar.ruvalcaba@altaenviron.com>]

Sent: Thursday, November 14, 2013 3:11 PM

To: Kamibayashi, Terry

Subject: Malibu High Report-Draft

For your review and comments. if approved, we will finalized and send as final.

Let me know if you have any comments.

CESAR RUVALCABA, CAC, CDPH-IA,PM
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Lyon, Sandra

From: Kamibayashi, Terry
Sent: Monday, November 25, 2013 7:23 AM
To: Maez, Jan; Mark Katchen
Cc: Lyon, Sandra
Subject: RE: Malibu High Report

Follow Up Flag: Follow up
Flag Status: Completed

You are right this is a summary with non asbestos items removed. The request was specific to Malibu High but I can request the same for Cabrillo if directed to.

From: Maez, Jan
Sent: Sunday, November 24, 2013 7:28 PM
To: Kamibayashi, Terry; Mark Katchen
Cc: Lyon, Sandra
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Terry,

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I couldn't find that we had posted to the web site - should we? And did they do the same for Cabrillo?

Janece L. Maez

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Subject: FW: Malibu High Report

Malibu High School AHERA revisions as requested by Task Force

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Sent: Friday, November 15, 2013 12:13 PM

To: Kamibayashi, Terry

Cc: David Schack

Subject: RE: Malibu High Report

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Regards,

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Subject: Malibu High Report-Draft

For your review and comments. if approved, we will finalized and send as final.

Let me know if you have any comments.

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Lyon, Sandra

From: Kamibayashi, Terry
Sent: Monday, November 25, 2013 10:35 AM
To: Maez, Jan; Mark Katchen
Cc: Lyon, Sandra
Subject: RE: Malibu High Report

I have just spoken with Cesar with Alta and he is going to work with ATC to update our AHERA for Malibu High. The survey provided by ATC for the BB Project can be used to update areas of assumed 1 and 2 and also show where known Asbestos was removed. This is taking place immediately and I will have an updated report soon.

From: Maez, Jan
Sent: Sunday, November 24, 2013 7:28 PM
To: Kamibayashi, Terry; Mark Katchen
Cc: Lyon, Sandra
Subject: RE: Malibu High Report

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Janece L. Maez

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310-450-8338 ext.268
310-581-6720 fax

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To: Mark Katchen; Lyon, Sandra; Maez, Jan
Subject: FW: Malibu High Report

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To: Kamibayashi, Terry
Subject: Malibu High Report-Draft

For your review and comments. if approved, we will finalized and send as final.

Let me know if you have any comments.

CESAR RUVALCABA, CAC, CDPH-IA, PM
PROJECT MANAGER



3777 Long Beach Blvd, Annex Building, Long Beach, CA 90807
o. 562.495.5777 c. 310.951.9485 f. 562.495.5877
cesar.ruvalcaba@altaenviron.com | www.altaenviron.com

Alta Environmental is the premier EH&S consultancy serving the needs of industrial, construction and transaction clients throughout the Western United States. For more information about our environmental compliance, subsurface remediation, building sciences and occupational safety capabilities, please [click here](#) for our website.

Lyon, Sandra

From: Laurie Lieberman <lieberman@hlkklaw.com>
Sent: Wednesday, December 04, 2013 6:07 PM
To: Lyon, Sandra; Maez, Jan; Mark Katchen
Subject: Fwd: Greenwich High School / contamination example

Sent from my iPad

Begin forwarded message:

From: Jennifer DENICOLA <jd18@me.com>
Date: December 4, 2013 at 11:34:15 AM PST
To: Laurie Lieberman <llieberman@smmusd.org>
Subject: Fwd: Greenwich High School / contamination example

communications:

<http://www.greenwichschools.org/page.cfm?p=10019>

<http://www.greenwichtime.com/news/article/Bob-Horton-Truth-about-PCBs-still-buried-4337625.php>

<http://greenwich.patch.com/groups/bill-effross-blog/p/secret-meeting-foia-complaint>

<http://www.greenwichtime.com/news/article/Toxins-found-in-groundwater-at-Greenwich-High-3497824.php>

Plan:

http://www.greenwichschools.org/uploaded/district/Board_of_Education/meeting_materials/2013-2014_meetings/9-19-13_meeting/91913_FINAL_Draft_Remedial_Action_Plan.pdf

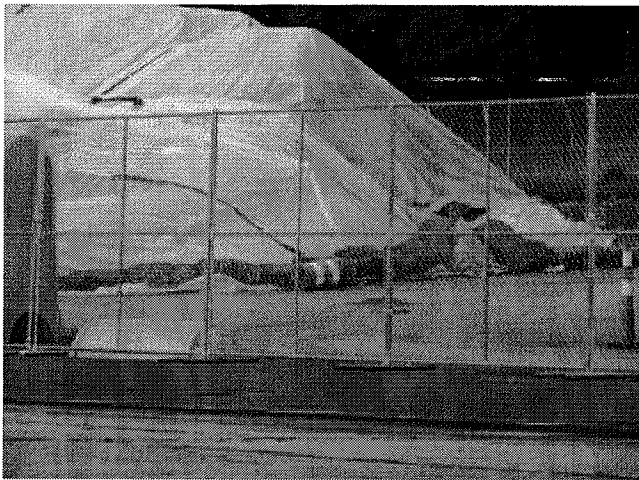
<http://greenwich.patch.com/groups/schools/p/greenwich-hs-soil-remediation-cost-pegged-at-13-to-17-million>

Greenwich HS Soil Remediation Cost Pegged at \$13 to \$17 Million

Plans to remove contaminated from the Greenwich High School campus will take two summers, and if approved by federal and state regulators, will begin in 2014.

Posted by Barbara Heins (Editor) , September 20, 2013 at 06:00 AM

1 Comment Recommend



Piles of contaminated soil at Greenwich High School in 2011. Patch File photo by Barbara Heins.

Two things are for certain, to remove the soil contaminated with arsenic and PCBS from the Greenwich High School campus—it's going to take a lot of time...and a lot of money.

In a presentation to the Greenwich Board of Education Thursday night, Greenwich Department of Public Works Commissioner Amy Siebert and environmental consultant Malcolm Beeler, project manager for AECOM, laid out the cleanup schedule, development implications and more importantly, the costs involved with removing the contaminated soil from the 10-plus acre campus on Hillside Road.

If the plan to scour up to three-feet of soil from certain athletic fields on the campus is approved by the federal Environmental Protection Agency, the state Department of Energy and Environmental Protection and the state Department of Health, and funding is approved by various town agencies including the Board of Estimate and Taxation and the Representative Town Meeting, the two-year project could begin in summer 2014, according to Siebert.

The project would be the culmination of two years of testing and analysis of soil that was found to be contaminated back in 2011 when preliminary work for an auditorium expansion project began.

Siebert and Beeler gave a 40-minute presentation and answered questions from the board Thursday night in the board's headquarters, the Havemeyer Building.

The plan is "Highly protective of health and human environment and in compliance in state and federal regulations," Beeler said. He said that the work on the project will mean "restricted access" to the high school which will prompt the relocation of summer school classes to Central Middle School as well as town Parks and Recreation Department athletic programs. At best, minimal school maintenance staff will be allowed in the school during the project, Beehler said.

Siebert said that project is now estimated to cost \$13 to \$17 million as opposed to estimates of \$13 to \$20 million and estimates that board members said hedged close to the \$100 million mark.

The remediation plan—which is posted on the Board of Education website and

the Greenwich High School website—is now in the "comment phase," according to Siebert. The public may post comments about the proposal on the websites until Oct. 5, before the federal and state agencies begin their deliberations. Officials are hoping those federal and state approvals will come by January.

If those approvals come through, it will allow the Board of Ed, via the Department of Public Works, to seek funding approvals from town agencies. Siebert said the town will seek to pre-approve environmental excavation contractors who would be eligible to bid for the work, to minimize contractual negotiation time.

"We don't want your typical backyard excavator" bidding on the job, Siebert said.

Regarding cost, Siebert said the cost range was \$13 to \$20 million. "The cost estimate is more like \$13 to \$17 million...we're hopeful...we're hopeful it will stay in that range and hopeful that it will be in lower range." Board member Nancy Kail said the estimate is far less than previously reported estimates that hovered close to \$100 million.

Conducting the soil removal and replacement work will mean coordination among various town departments and contractors as the Music and Instructional Space and Auditorium (commonly known as MISA) continues, Siebert and Beeler said.

"It will be great to coordinate with MISA.....let us get in there and get it done," Siebert said.

There weren't any objections voiced by the education board which is now scheduled to take a vote on the proposal at its October meeting.

Board of Estimate and Taxation Chair Michael Mason said following the meeting, that the plan "Seems to be a reasonable level of remediation in the plan to increase the confidence that there isn't any danger for anyone as the property is currently used for." He added, "The BET will have the opportunity to review the plan and make decisions on funding, method of funding. We will want to know the all in costs including traffic control. Legal cost, project management, general conditions etc."

There are many ramifications the project will have, if approved.

Among them:

- Summer school classes for GHS students in 2014 and 2015 will be held elsewhere, most likely Central Middle School.
- "The first remedial action would occur during the summer break of summer 2014...in the areas around west parking lot and some areas of southeast corner," Beeler said. Construction would end before school starts....."and pick up and complete in summer 2015, (however, it is) weather dependent. If something major happens, we may have to reschedule and it will take three years."

- No one other than construction crews and high school building maintenance personnel would be allowed on the campus.
- There will be air monitoring during all work, measuring contaminants in dust created by the excavation.
- There will be barriers to prevent storm water runoff from the site.
- Upon completion of excavation, soil and grass replenishment will be either sod or soil and grass seed. There also will be a tree and landscape replacement plan, Beehler said.
- All personnel will be subject to health monitoring.
- Deed restrictions regarding future construction and utility installation will be placed on land records.

<http://www.nytimes.com/2005/07/04/nyregion/04pcbs.html? r=1&>

Tainted Soil to Be Removed Next to Westchester School

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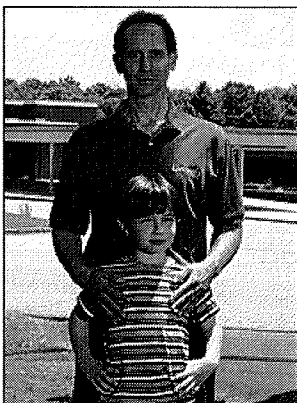
"A STORY THAT
SEIZES YOU WITH A
VISCERAL FORCE."
—THE NEW YORK TIMES

By BARBARA WHITAKER

Published: July 4, 2005

In what state health officials call the first cleanup of its kind in the state, a school district in Westchester County is planning to remove soil next to an elementary school in Yorktown Heights because the soil is contaminated by PCB's from caulking in the school's windows.

[Enlarge This Image](#)



Susan Farley for The New York Times

Dr. Daniel Lefkowitz requested tests on scraps of caulk left after maintenance at French Hill Elementary School, where his son, Evan, is a student. The tests found PCB's at 350 times above the federal limit.

The cleanup at French Hill Elementary School, which will cost the district about \$100,000, was prompted by a parent who had scraps of the caulking tested and found PCB's at 350 times above the federal limit. Soil around the school also showed evidence of PCB contamination, though at lower levels. PCB's, or polychlorinated biphenyls, which were banned in 1977, have been linked to developmental problems in children.

School officials have fenced off parts of the school outside near many of its windows and are seeking bids from contractors to clean up the contaminated soil. They hope the work can be completed by the time the children return in September.

A spokesman for the State Department of Health said the cleanup was the first the agency was aware of involving PCB contamination from caulk.

"We're kind of at the forefront here," said Dennis Verboys, director of facilities with the Yorktown Central School District. "Had we not had the overzealous community member, we never would have tested."

Dr. Daniel Lefkowitz, whose 7-year-old son attends the school, raised questions about possible contamination after reading a 2004 Harvard University study, which found that PCB's from caulk had contaminated schools and buildings in the Boston area. Knowing that the school's windows had been removed and replaced in 2003, and that the building was constructed when PCB's were used in caulk, Dr. Lefkowitz searched outside the building, found scraps of caulk left behind and had them tested.

Production of PCB's, which are flame-resistant, was banned in the United States in 1977, but they had been widely used in caulk and other building materials. Studies have shown that PCB's can cause developmental problems in infants and in children born to women exposed to the compounds during pregnancy. PCB's can also pose a risk of cancer, health experts say.

Westchester County Health Department officials say the contamination at the school does not present a health risk, but school officials say the contamination is sufficient under state and federal guidelines to require the cleanup. Dr. Lefkowitz, a podiatrist, is pressing for further testing at the school.

While there is growing concern among scientists about PCB's in caulk, many questions remain unanswered. For example, how commonly were PCB's used in caulk? Are PCB's migrating from the material and contaminating areas inside and outside buildings where they were used? If so, is the contamination at a level requiring removal? What are the health risks?

"This is something just coming on the radar screen," said Rich Cahill, a spokesman for the United States Environmental Protection Agency in the New York region. "There are efforts to quantify the risk associated with it, but at this point it's unknown."

Robert Herrick, who led the study by the Harvard School of Public Health, compared the issue to that of lead paint, which was used for many years, contaminating buildings and homes and causing health problems in children.

"PCB's are really potent developmental toxins," he said. "We want to minimize exposure for kids."

Of 24 buildings tested around Boston in the Harvard study, eight contained caulking material with PCB's exceeding 50 parts per million, the highest level allowable under federal guidelines. In addition, PCB levels in the indoor air and dust taken from the buildings revealed varied levels of contamination.

Dr. Herrick noted that in Finland, studies had found a correlation between PCB's in caulk and PCB's in the air as well as in the blood of construction workers handling the materials during renovations. In Germany, he said, a study found elevated blood levels of PCB's in teachers working in schools with contaminated caulking.

The study recommended random testing in schools, hospitals and other masonry buildings constructed or renovated during the time PCB's were used in caulk, commonly from 1960 to 1977. The caulk was typically used in brick buildings. "The E.P.A. requires you to clean it up if you find it, but they don't require you to look for it," Dr. Herrick said. "We need to pull together data to determine if there is a health risk."

Little is being done at the state level to address the issue. The State Education Department has notified schools of the findings in Dr. Herrick's study through a newsletter. Assemblyman Thomas P. DiNapoli, the chairman of the Assembly's Committee on Environmental Conservation, said he was considering sponsoring legislation that would finance a pilot program to test for contaminated caulk in schools and perhaps other buildings.

But environmental groups expect that advancing such legislation will be difficult. "What schools have a tendency to do is have a 'don't ask, don't tell' approach - they're afraid if you find something, then you'll have to do something about it," said Kathleen Curtis, executive director of the Citizens' Environmental Coalition, an Albany-based advocacy group. "School districts are tight on money. There's been a tremendous amount of difficulty getting a bill passed to test for lead in school water fountains."

New England Journal of Medicine 1996 Sep 12;335(11):783-9.

Intellectual impairment in children exposed to polychlorinated biphenyls [PCBs] in utero.

<http://www.ncbi.nlm.nih.gov/pubmed/8703183>

Lyon, Sandra

From: Lyon, Sandra
Sent: Friday, December 20, 2013 5:55 PM
To: armann.steve@epa.gov; wilson.patrick@epa.gov; Baylor, Katherine (Baylor.Katherine@epa.gov)
Cc: Lynn Murphy (lmurphy@fagenfriedman.com); Elliott, Mark E. (mark.elliott@pillsburylaw.com); Maez, Jan; Huetteman, Tom; Mark Katchen; Mogharabi, Nahal
Subject: 72 hour notice

Hello all:

Thanks for all your assistance this week so that we are able to move forward with cleaning and testing.

My understanding is, based on information that you sent to us, you need 72-hour notice for the verification testing that is to be done post-cleaning so that the EPA can send a representative from Region IX, San Francisco to be on-site.

That testing will be scheduled for January 2nd and 3rd 2014. We wanted to give you ample time to arrange for your representative to be there.

Please let me know if you need anything else.

Happy Holidays!
Sandy

Sandra Lyon
Superintendent
Santa Monica-Malibu Unified School District
1651 Sixteenth St.
Santa Monica, CA 90404
Tel: 310.450.8338 X 70241
FAX: 310.581.1138
www.smmusd.org

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If you are not the intended recipient, please contact the sender by reply email and destroy all copies of the original message. Thank you.

Lyon, Sandra

From: Mark Katchen <mkatchen@phylmar.com>
Sent: Monday, November 18, 2013 1:44 PM
To: armann.steve@epa.gov; Wilson.patrick@epa.gov
Cc: Lyon, Sandra
Subject: PCB Air Data for Malibu High School/Middle School
Attachments: 131104_MHS_PCB Air Lab Report.pdf

Gentlemen, Sandra Lyons requested I send the attached laboratory report for the air sampling conducted at Malibu High School/Middle School. Sample numbers corresponding to the sample locations are listed in the following table.

Sample Number	Location
A-1	Library
A-2	Blue Bldg. Room 1
A-3	Blue Bldg. Room 2
A-4	Blue Bldg. Room 8
A-5	Blue Bldg. Room 9
A-6	Blue Bldg. Room 5
A-7	Room 301
A-8	Mako Bldg., Room 104
A-9	Mako Bldg., Room 103
A-10	Mako Bldg., Room 105

Please contact me if you have any questions.

Best regards,
Mark Katchen, CIH
Managing Principal
The Phylmar Group, Inc.
310-474-3937
310-446-1826 (fax)
www.phylmar.com

Empowering Communities of Environmental Health and Safety/Sustainability Professionals



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November 15, 2013

FAL Project ID: 8158

Mr. Mark Katchen
Phylmar Group
2342 Manning Avenue
Los Angeles, CA 90064

Dear Mr. Katchen,

Attached are the results for Frontier Analytical Laboratory project **8158**. This corresponds to your project number **365-001A** and project name **MHS/Cabrillo Monitoring**. Twelve Polyurethane Foam/XAD-2 (PUF/XAD) cartridges were received on 11/5/2013 in good condition. The twelve samples were extracted and analyzed by EPA Method 1668C for all 209 polychlorinated biphenyls (PCBs). In addition, the total PCB concentration is listed in the upper right hand portion of page one of each sample data page. **Please note the results are reported in pg/sample.** The results have not been adjusted for the volume of air that was collected. The Phylmar Group requested a turnaround time of ten business days for project **8158**.

The following report consists of an Analytical Data section and a Sample Receipt section. The Analytical Data section contains our project-sample tracking log and the analytical results. The Sample Receipt section contains your chain of custody, our sample login form and the sample photos. The attached results are specifically for the samples referenced in this report only. These results shall not be reproduced except in full. Frontier Analytical Laboratory's NELAP Certificate number is 02113CA. This report has been emailed to you as a PDF file. A hardcopy will not be sent to you unless specifically requested.

If you have any questions regarding project **8158**, please contact me at (916) 934-0900. Thank you for choosing Frontier Analytical Laboratory for your analytical testing needs.

Sincerely,

A handwritten signature in black ink, appearing to read "Bradley B. Silverbush".

Bradley B. Silverbush
Director of Operations

Frontier Analytical Laboratory

Sample Tracking Log

FAL Project ID: **8158**

Received on: **11/05/2013**

Project Due: **11/20/2013**

Storage: **R2**

FAL Sample ID	Dup	Client Project ID	Client Sample ID	Requested Method	Matrix	Sampling Date	Sampling Time	Hold Time Due Date
8158-001-SA	0	365-001A	HC20131102-A-1	EPA 1668 PCB	PUF/XAD	11/02/2013	NP	11/09/2013
8158-002-SA	0	365-001A	HC20131102-A-2	EPA 1668 PCB	PUF/XAD	11/02/2013	NP	11/09/2013
8158-003-SA	0	365-001A	HC20131102-A-3	EPA 1668 PCB	PUF/XAD	11/02/2013	NP	11/09/2013
8158-004-SA	0	365-001A	HC20131102-A-4	EPA 1668 PCB	PUF/XAD	11/02/2013	NP	11/09/2013
8158-005-SA	0	365-001A	HC20131102-A-5	EPA 1668 PCB	PUF/XAD	11/02/2013	NP	11/09/2013
8158-006-SA	0	365-001A	HC20131102-A-6	EPA 1668 PCB	PUF/XAD	11/02/2013	NP	11/09/2013
8158-007-SA	0	365-001A	HC20131102-A-7	EPA 1668 PCB	PUF/XAD	11/02/2013	NP	11/09/2013
8158-008-SA	0	365-001A	HC20131102-A-8	EPA 1668 PCB	PUF/XAD	11/02/2013	NP	11/09/2013
8158-009-SA	0	365-001A	HC20131102-A-9	EPA 1668 PCB	PUF/XAD	11/02/2013	NP	11/09/2013
8158-010-SA	0	365-001A	HC20131102-A-10	EPA 1668 PCB	PUF/XAD	11/02/2013	NP	11/09/2013
8158-011-SA	0	365-001A	HC20131102-A-11	EPA 1668 PCB	PUF/XAD	11/02/2013	NP	11/09/2013
8158-012-SA	0	365-001A	HC20131102-A-12	EPA 1668 PCB	PUF/XAD	11/02/2013	NP	11/09/2013

EPA Modified Method 1668
PCBs



FAL ID: 8158-001-MB
Client ID: Method Blank
Matrix: PUF
Batch No: X2965

Date Extracted: 11-06-2013
Date Received: NA
Amount: 1.00 pg/sample

ICal: DAILY209FAL4-11-7-13
GC Column: DB1
Units: sample

Acquired: 11-07-2013
Total Conc: 27.5

Page 1 of 3

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-1	ND	1.88			PCB-51	ND	4.68		
PCB-2	ND	2.53			PCB-52	ND	4.08	C	69
PCB-3	ND	2.02			PCB-53	ND	4.80		
PCB-4	ND	7.47			PCB-54	ND	2.62		
PCB-5	ND	6.70			PCB-55	ND	3.53		
PCB-6	ND	5.77			PCB-56	ND	4.61	C	60
PCB-7	ND	7.23			PCB-57	ND	3.39		
PCB-8	ND	7.16			PCB-58	ND	3.81		
PCB-9	ND	6.10			PCB-59	-	-	C042	42
PCB-10	ND	6.47			PCB-60	-	-	C056	56
PCB-11	27.5	-	J		PCB-61	ND	3.66	C	70
PCB-12	ND	7.16			PCB-62	ND	3.43		
PCB-13	ND	7.09			PCB-63	ND	3.38		
PCB-14	ND	6.62			PCB-64	-	-	C041	41/71/72
PCB-15	ND	5.35			PCB-65	ND	3.89		
PCB-16	ND	4.15			PCB-66	ND	3.23	C	76
PCB-17	ND	4.90			PCB-67	ND	3.33		
PCB-18	ND	5.77			PCB-68	ND	3.21		
PCB-19	ND	4.11			PCB-69	-	-	C052	52
PCB-20	ND	3.55	C	21/33	PCB-70	-	-	C061	61
PCB-21	-	-	C020	20/33	PCB-71	-	-	C041	41/64/72
PCB-22	ND	3.65			PCB-72	-	-	C041	41/64/71
PCB-23	ND	3.68			PCB-73	ND	3.32		
PCB-24	ND	3.71			PCB-74	ND	2.55		
PCB-25	ND	3.42			PCB-75	-	-	C048	48
PCB-26	ND	3.70			PCB-76	-	-	C066	66
PCB-27	ND	3.67			PCB-77	ND	4.12		
PCB-28	ND	3.36			PCB-78	ND	4.78		
PCB-29	ND	3.63			PCB-79	ND	4.80		
PCB-30	ND	3.57			PCB-80	ND	2.88		
PCB-31	ND	3.15			PCB-81	ND	4.33		
PCB-32	ND	3.72			PCB-82	ND	9.90		
PCB-33	-	-	C020	20/21	PCB-83	ND	7.10	C	112
PCB-34	ND	4.43			PCB-84	ND	8.04	C	92
PCB-35	ND	3.86			PCB-85	ND	6.63	C	116
PCB-36	ND	3.64			PCB-86	ND	7.23		
PCB-37	ND	2.83			PCB-87	ND	5.99	C	117/125
PCB-38	ND	3.57			PCB-88	ND	6.55	C	91
PCB-39	ND	3.84			PCB-89	ND	8.29		
PCB-40	ND	6.02			PCB-90	ND	7.25	C	101
PCB-41	ND	3.58	C	64/71/72	PCB-91	-	-	C088	88
PCB-42	ND	3.88	C	59	PCB-92	-	-	C084	84
PCB-43	ND	3.77	C	49	PCB-93	ND	5.83		
PCB-44	ND	4.10			PCB-94	ND	7.23		
PCB-45	ND	5.14			PCB-95	ND	5.44		
PCB-46	ND	5.39			PCB-96	ND	4.49		
PCB-47	ND	4.03			PCB-97	ND	7.88		
PCB-48	ND	3.71	C	75	PCB-98	ND	5.71	C	102
PCB-49	-	-	C043	43	PCB-99	ND	6.15		
PCB-50	ND	4.38			PCB-100	ND	6.00		

EPA Modified Method 1668
PCBs



FAL ID: 8158-001-MB
Client ID: Method Blank
Matrix: PUF
Batch No: X2965

Date Extracted: 11-06-2013
Date Received: NA
Amount: 1.00 pg/sample

ICal: DAILY209FAL4-11-7-13
GC Column: DB1
Units: sample

Acquired: 11-07-2013

Page 2 of 3

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-101	-	-	C090	90	PCB-151	ND	9.67		
PCB-102	-	-	C098	98	PCB-152	ND	4.19		
PCB-103	ND	5.51			PCB-153	ND	5.34		
PCB-104	ND	3.23			PCB-154	ND	4.94		
PCB-105	ND	7.26			PCB-155	ND	2.96		
PCB-106	ND	8.24	C	118	PCB-156	ND	6.18		
PCB-107	ND	7.28	C	108	PCB-157	ND	6.45		
PCB-108	-	-	C107	107	PCB-158	ND	5.28	C	160
PCB-109	ND	6.26			PCB-159	ND	5.23		
PCB-110	ND	4.20			PCB-160	-	-	C158	158
PCB-111	ND	5.41	C	115	PCB-161	-	-	C132	132
PCB-112	-	-	C083	83	PCB-162	-	-	C128	128
PCB-113	ND	6.91			PCB-163	-	-	C138	138/164
PCB-114	ND	7.44			PCB-164	-	-	C138	138/163
PCB-115	-	-	C111	111	PCB-165	-	-	C146	146
PCB-116	-	-	C085	85	PCB-166	ND	5.39		
PCB-117	-	-	C087	87/125	PCB-167	ND	5.50		
PCB-118	-	8.24	C106	106	PCB-168	ND	5.57		
PCB-119	ND	5.62			PCB-169	ND	5.67		
PCB-120	ND	5.26			PCB-170	ND	7.86		
PCB-121	ND	4.80			PCB-171	ND	6.27		
PCB-122	ND	7.13			PCB-172	ND	6.92		
PCB-123	ND	7.45			PCB-173	ND	7.25		
PCB-124	ND	8.60			PCB-174	ND	6.23		
PCB-125	-	-	C087	87/117	PCB-175	ND	6.56		
PCB-126	ND	6.38			PCB-176	ND	4.40		
PCB-127	ND	7.82			PCB-177	ND	6.89		
PCB-128	ND	6.95	C	162	PCB-178	ND	6.36		
PCB-129	ND	8.09			PCB-179	ND	4.26		
PCB-130	ND	7.38			PCB-180	ND	6.09		
PCB-131	ND	7.41	C	133	PCB-181	ND	6.53		
PCB-132	ND	6.33	C	161	PCB-182	ND	5.63	C	187
PCB-133	-	-	C131	131	PCB-183	ND	5.75		
PCB-134	ND	7.44	C	143	PCB-184	ND	4.31		
PCB-135	ND	8.72			PCB-185	ND	6.57		
PCB-136	ND	4.64			PCB-186	ND	4.73		
PCB-137	ND	8.33			PCB-187	-	-	C182	182
PCB-138	ND	5.00	C	163/164	PCB-188	ND	3.58		
PCB-139	ND	6.68	C	149	PCB-189	ND	3.88		
PCB-140	ND	6.36			PCB-190	ND	5.47		
PCB-141	ND	6.98			PCB-191	ND	5.07		
PCB-142	ND	7.73			PCB-192	ND	5.52		
PCB-143	-	-	C134	134	PCB-193	ND	4.88		
PCB-144	ND	6.08			PCB-194	ND	5.53		
PCB-145	ND	4.42			PCB-195	ND	6.08		
PCB-146	ND	5.90	C	165	PCB-196	ND	6.60	C	203
PCB-147	ND	6.77			PCB-197	ND	4.91		
PCB-148	ND	5.09			PCB-198	ND	7.23		
PCB-149	-	-	C139	139	PCB-199	ND	7.73		
PCB-150	ND	4.43			PCB-200	ND	4.73		

EPA Modified Method 1668
PCBs



FAL ID: 8158-001-MB
Client ID: Method Blank
Matrix: PUF
Batch No: X2965

Date Extracted: 11-06-2013
Date Received: NA
Amount: 1.00 pg/sample

ICal: DAILY209FAL4-11-7-13
GC Column: DB1
Units: sample

Acquired: 11-07-2013


Page 3 of 3


Compound	Conc	DL	Qual	Coeluters
PCB-201	ND	4.86		
PCB-202	ND	3.75		
PCB-203	-	-	C196	196
PCB-204	ND	4.59		
PCB-205	ND	3.21		
PCB-206	ND	4.63		
PCB-207	ND	4.81		
PCB-208	ND	3.57		
PCB-209	ND	5.09		

Internal Standards	% Rec	QC Limits	Qual
13C-PCB-1	77.5	5.00 - 145	
13C-PCB-3	77.5	5.00 - 145	
13C-PCB-4	88.0	5.00 - 145	
13C-PCB-15	89.2	5.00 - 145	
13C-PCB-19	82.7	5.00 - 145	
13C-PCB-37	94.8	5.00 - 145	
13C-PCB-54	95.5	5.00 - 145	
13C-PCB-77	92.4	10.0 - 145	
13C-PCB-81	93.9	10.0 - 145	
13C-PCB-104	89.1	10.0 - 145	
13C-PCB-105	94.3	10.0 - 145	
13C-PCB-114	96.1	10.0 - 145	
13C-PCB-118	89.1	10.0 - 145	
13C-PCB-123	93.5	10.0 - 145	
13C-PCB-126	95.8	10.0 - 145	
13C-PCB-155	89.8	10.0 - 145	
13C-PCB-156	92.7	10.0 - 145	
13C-PCB-157	94.0	10.0 - 145	
13C-PCB-167	97.4	10.0 - 145	
13C-PCB-169	98.2	10.0 - 145	
13C-PCB-188	93.0	10.0 - 145	
13C-PCB-189	99.1	10.0 - 145	
13C-PCB-202	88.9	10.0 - 145	
13C-PCB-205	89.0	10.0 - 145	
13C-PCB-206	93.4	10.0 - 145	
13C-PCB-208	90.8	10.0 - 145	
13C-PCB-209	90.3	10.0 - 145	

Pre-Spike Standards	% Rec	QC Limits	Qual
13C-PCB-28	101	5.00 - 145	
13C-PCB-111	88.8	10.0 - 145	
13C-PCB-178	88.4	10.0 - 145	

- A Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
- B Analyte is present in Method Blank
- C Coelution
- D Presence of Diphenyl Ethers
- DNQ Analyte concentration is below calibration range
- E Analyte concentration is above calibration range
- F Analyte confirmation on secondary column
- J Analyte concentration is below calibration range
- M Maximum possible concentration
- ND Analyte Not Detected at Detection Limit Level
- NP Not Provided
- P Pre-filtered through a Whatman 0.7um GF/F filter
- S Sample acceptance criteria not met
- X Matrix interferences
- * Result taken from dilution or reinjection

Analyst: 
Date: 11/13/2013

Reviewed By: 
Date: 11/13/2013

EPA Modified Method 1668
PCBs



FAL ID: 8158-001-OPR
Client ID: OPR
Matrix: PUF
Batch No: X2965

Date Extracted: 11-06-2013
Date Received: NA
Amount: 1.00 sample

ICal: 1668FAL4-10-24-13
GC Column: DB1
Units: ng/ml

Acquired: 11-07-2013

Compound	% Recovery	QC Limits	Qual	Internal Standards	% Recovery	QC Limits	Qual
PCB-1	108	60.0 - 135		13C-PCB-1	81.0	15.0 - 145	
PCB-3	108	60.0 - 135		13C-PCB-3	80.6	15.0 - 145	
PCB-4	105	60.0 - 135		13C-PCB-4	80.9	15.0 - 145	
PCB-15	105	60.0 - 135		13C-PCB-15	80.3	15.0 - 145	
PCB-19	106	60.0 - 135		13C-PCB-19	87.1	15.0 - 145	
PCB-37	106	60.0 - 135		13C-PCB-37	78.5	15.0 - 145	
PCB-54	99.4	60.0 - 135		13C-PCB-54	106	15.0 - 145	
PCB-77	102	60.0 - 135		13C-PCB-77	81.4	40.0 - 145	
PCB-81	107	60.0 - 135		13C-PCB-81	77.3	40.0 - 145	
PCB-104	104	60.0 - 135		13C-PCB-104	84.1	40.0 - 145	
PCB-105	102	60.0 - 135		13C-PCB-105	90.7	40.0 - 145	
PCB-114	103	60.0 - 135		13C-PCB-114	86.5	40.0 - 145	
PCB-118	106	60.0 - 135		13C-PCB-118	90.7	40.0 - 145	
PCB-123	98.3	60.0 - 135		13C-PCB-123	90.9	40.0 - 145	
PCB-126	107	60.0 - 135		13C-PCB-126	87.2	40.0 - 145	
PCB-155	112	60.0 - 135		13C-PCB-155	82.2	40.0 - 145	
PCB-156	110	60.0 - 135		13C-PCB-156	88.2	40.0 - 145	
PCB-157	112	60.0 - 135		13C-PCB-157	85.8	40.0 - 145	
PCB-167	114	60.0 - 135		13C-PCB-167	87.4	40.0 - 145	
PCB-169	110	60.0 - 135		13C-PCB-169	89.5	40.0 - 145	
PCB-188	111	60.0 - 135		13C-PCB-188	98.4	40.0 - 145	
PCB-189	113	60.0 - 135		13C-PCB-189	88.6	40.0 - 145	
PCB-202	111	60.0 - 135		13C-PCB-202	93.0	40.0 - 145	
PCB-205	117	60.0 - 135		13C-PCB-205	78.4	40.0 - 145	
PCB-206	110	60.0 - 135		13C-PCB-206	93.5	40.0 - 145	
PCB-208	105	60.0 - 135		13C-PCB-208	92.4	40.0 - 145	
PCB-209	126	60.0 - 135		13C-PCB-209	80.4	40.0 - 145	
				Pre-Spike Standards	% Recovery	QC limits	Qual
				13C-PCB-28	89.9	15.0 - 145	
				13C-PCB-111	81.6	40.0 - 145	
				13C-PCB-178	94.3	40.0 - 145	

Analyst: 

Date: 11/13/2013

Reviewed By: 

Date: 11/13/2013

EPA Modified Method 1668
PCBs



FAL ID: 8158-001-SA
Client ID: HC20131102-A-1
Matrix: PUF
Batch No: X2965

Date Extracted: 11-06-2013
Date Received: 11-05-2013
Amount: 1.00 sample

ICal: DAILY209FAL4-11-7-13
GC Column: DB1
Units: pg/sample

Acquired: 11-07-2013
Total Conc: 504000

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Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-1	6170	-			PCB-51	636	-		
PCB-2	1110	-			PCB-52	48100	-	C	69
PCB-3	4730	-			PCB-53	2800	-		
PCB-4	4030	-			PCB-54	23.5	-	J	
PCB-5	480	-			PCB-55	308	-		
PCB-6	2570	-			PCB-56	5630	-	C	60
PCB-7	984	-			PCB-57	60.6	-		
PCB-8	15400	-			PCB-58	31.6	-	J	
PCB-9	939	-			PCB-59	-	-	C042	42
PCB-10	311	-			PCB-60	-	-	C056	56
PCB-11	8620	-	B		PCB-61	27100	-	C	70
PCB-12	427	-			PCB-62	ND	8.63		
PCB-13	658	-			PCB-63	493	-		
PCB-14	ND	9.23			PCB-64	-	-	C041	41/71/72
PCB-15	3080	-			PCB-65	ND	9.78		
PCB-16	3950	-			PCB-66	10800	-	C	76
PCB-17	6160	-			PCB-67	349	-		
PCB-18	18700	-			PCB-68	84.7	-		
PCB-19	987	-			PCB-69	-	-	C052	52
PCB-20	9150	-	C	21/33	PCB-70	-	-	C061	61
PCB-21	-	-	C020	20/33	PCB-71	-	-	C041	41/64/72
PCB-22	4660	-			PCB-72	-	-	C041	41/64/71
PCB-23	25.0	-	J		PCB-73	837	-		
PCB-24	150	-			PCB-74	5800	-		
PCB-25	980	-			PCB-75	-	-	C048	48
PCB-26	2470	-			PCB-76	-	-	C066	66
PCB-27	885	-			PCB-77	310	-		
PCB-28	14100	-			PCB-78	71.8	-		
PCB-29	102	-			PCB-79	300	-		
PCB-30	ND	6.76			PCB-80	169	-		
PCB-31	14500	-			PCB-81	445	-		
PCB-32	4150	-			PCB-82	2390	-		
PCB-33	-	-	C020	20/21	PCB-83	1300	-	C	112
PCB-34	52.5	-			PCB-84	16300	-	C	92
PCB-35	300	-			PCB-85	3530	-	C	116
PCB-36	13.9	-	J		PCB-86	133	-		
PCB-37	1760	-			PCB-87	10000	-	C	117/125
PCB-38	54.8	-			PCB-88	5960	-	C	91
PCB-39	14.0	-	J		PCB-89	422	-		
PCB-40	1800	-			PCB-90	35700	-	C	101
PCB-41	12000	-	C	64/71/72	PCB-91	-	-	C088	88
PCB-42	3410	-	C	59	PCB-92	-	-	C084	84
PCB-43	13200	-	C	49	PCB-93	ND	9.47		
PCB-44	18600	-			PCB-94	214	-		
PCB-45	2000	-			PCB-95	36100	-		
PCB-46	758	-			PCB-96	353	-		
PCB-47	3100	-			PCB-97	8480	-		
PCB-48	2650	-	C	75	PCB-98	ND	9.27	C	102
PCB-49	-	-	C043	43	PCB-99	11800	-		
PCB-50	41.2	-			PCB-100	107	-		

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EPA Modified Method 1668
PCBs



FAL ID: 8158-001-SA
Client ID: HC20131102-A-1
Matrix: PUF
Batch No: X2965

Date Extracted: 11-06-2013
Date Received: 11-05-2013
Amount: 1.00 sample

ICal: DAILY209FAL4-11-7-13
GC Column: DB1
Units: pg/sample

Acquired: 11-07-2013

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Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-101	-	-	C090	90	PCB-151	2260	-		
PCB-102	-	-	C098	98	PCB-152	42.9	-		
PCB-103	263	-			PCB-153	5290	-		
PCB-104	ND	2.47			PCB-154	150	-		
PCB-105	3670	-			PCB-155	ND	1.88		
PCB-106	12600	-	C	118	PCB-156	285	-		
PCB-107	886	-	C	108	PCB-157	65.5	-		
PCB-108	-	-	C107	107	PCB-158	786	-	C	160
PCB-109	ND	9.06			PCB-159	ND	6.38		
PCB-110	17500	-			PCB-160	-	-	C158	158
PCB-111	710	-	C	115	PCB-161	-	-	C132	132
PCB-112	-	-	C083	83	PCB-162	-	-	C128	128
PCB-113	ND	9.99			PCB-163	-	-	C138	138/164
PCB-114	361	-			PCB-164	-	-	C138	138/163
PCB-115	-	-	C111	111	PCB-165	-	-	C146	146
PCB-116	-	-	C085	85	PCB-166	30.0	-	J	
PCB-117	-	-	C087	87/125	PCB-167	142	-		
PCB-118	-	-	C106	106	PCB-168	ND	6.80		
PCB-119	397	-			PCB-169	ND	6.14		
PCB-120	33.9	-	J		PCB-170	123	-		
PCB-121	ND	7.79			PCB-171	96.2	-		
PCB-122	124	-			PCB-172	35.2	-	J	
PCB-123	245	-			PCB-173	11.8	-	J	
PCB-124	751	-			PCB-174	266	-		
PCB-125	-	-	C087	87/117	PCB-175	23.6	-	J	
PCB-126	20.4	-	J		PCB-176	103	-		
PCB-127	ND	9.74			PCB-177	155	-		
PCB-128	801	-	C	162	PCB-178	79.1	-		
PCB-129	391	-			PCB-179	290	-		
PCB-130	482	-			PCB-180	283	-		
PCB-131	376	-	C	133	PCB-181	14.9	-	J	
PCB-132	2850	-	C	161	PCB-182	350	-	C	187
PCB-133	-	-	C131	131	PCB-183	213	-		
PCB-134	774	-	C	143	PCB-184	ND	3.58		
PCB-135	1810	-			PCB-185	34.8	-	J	
PCB-136	3230	-			PCB-186	ND	3.93		
PCB-137	573	-			PCB-187	-	-	C182	182
PCB-138	4870	-	C	163/164	PCB-188	ND	3.02		
PCB-139	8450	-	C	149	PCB-189	ND	3.17		
PCB-140	161	-			PCB-190	20.3	-	J	
PCB-141	1160	-			PCB-191	ND	4.22		
PCB-142	ND	9.45			PCB-192	ND	4.59		
PCB-143	-	-	C134	134	PCB-193	14.5	-	J	
PCB-144	752	-			PCB-194	19.9	-	J	
PCB-145	17.7	-	J		PCB-195	ND	7.51		
PCB-146	951	-	C	165	PCB-196	54.7	-	C	203
PCB-147	379	-			PCB-197	ND	4.18		
PCB-148	82.1	-			PCB-198	ND	6.16		
PCB-149	-	-	C139	139	PCB-199	54.1	-		
PCB-150	36.5	-	J		PCB-200	11.7	-	J	

EPA Modified Method 1668
PCBs



FAL ID: 8158-001-SA
Client ID: HC20131102-A-1
Matrix: PUF
Batch No: X2965

Date Extracted: 11-06-2013
Date Received: 11-05-2013
Amount: 1.00 sample.

ICal: DAILY209FAL4-11-7-13
GC Column: DB1
Units: pg/sample

Acquired: 11-07-2013


Page 3 of 3


Compound	Conc	DL	Qual	Coeluters
PCB-201	17.8	-	J	
PCB-202	22.7	-	J	
PCB-203	-	-	C196	196
PCB-204	ND	3.91		
PCB-205	ND	3.97		
PCB-206	ND	8.27		
PCB-207	ND	8.88		
PCB-208	ND	6.78		
PCB-209	ND	3.30		

Internal Standards	% Rec	QC Limits	Qual
13C-PCB-1	81.6	5.00 - 145	
13C-PCB-3	82.2	5.00 - 145	
13C-PCB-4	92.3	5.00 - 145	
13C-PCB-15	96.6	5.00 - 145	
13C-PCB-19	84.2	5.00 - 145	
13C-PCB-37	107	5.00 - 145	
13C-PCB-54	92.3	5.00 - 145	
13C-PCB-77	104	10.0 - 145	
13C-PCB-81	104	10.0 - 145	
13C-PCB-104	89.0	10.0 - 145	
13C-PCB-105	102	10.0 - 145	
13C-PCB-114	103	10.0 - 145	
13C-PCB-118	102	10.0 - 145	
13C-PCB-123	105	10.0 - 145	
13C-PCB-126	106	10.0 - 145	
13C-PCB-155	84.7	10.0 - 145	
13C-PCB-156	98.1	10.0 - 145	
13C-PCB-157	99.5	10.0 - 145	
13C-PCB-167	101	10.0 - 145	
13C-PCB-169	103	10.0 - 145	
13C-PCB-188	93.1	10.0 - 145	
13C-PCB-189	103	10.0 - 145	
13C-PCB-202	89.5	10.0 - 145	
13C-PCB-205	92.6	10.0 - 145	
13C-PCB-206	92.6	10.0 - 145	
13C-PCB-208	88.9	10.0 - 145	
13C-PCB-209	87.6	10.0 - 145	

Pre-Spike Standards	% Rec	QC Limits	Qual
13C-PCB-28	108	5.00 - 145	
13C-PCB-111	94.4	10.0 - 145	
13C-PCB-178	90.6	10.0 - 145	

- A Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
- B Analyte is present in Method Blank
- C Coelution
- D Presence of Diphenyl Ethers
- DNQ Analyte concentration is below calibration range
- E Analyte concentration is above calibration range
- F Analyte confirmation on secondary column
- J Analyte concentration is below calibration range
- M Maximum possible concentration
- ND Analyte Not Detected at Detection Limit Level
- NP Not Provided
- P Pre-filtered through a Whatman 0.7um GF/F filter
- S Sample acceptance criteria not met
- X Matrix interferences
- * Result taken from dilution or reinjection

Analyst: 
Date: 11/13/2013

Reviewed By: 
Date: 11/13/2013

EPA Modified Method 1668
PCBs



FAL ID: 8158-002-SA
Client ID: HC20131102-A-2
Matrix: PUF
Batch No: X2965

Date Extracted: 11-06-2013
Date Received: 11-05-2013
Amount: 1.00 sample

ICal: DAILY209FAL4-11-7-13
GC Column: DB1
Units: pg/sample

Acquired: 11-07-2013
Total Conc: 589000

Page 1 of 3

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-1	6430	-			PCB-51	541	-		
PCB-2	886	-			PCB-52	45000	-	C	69
PCB-3	3590	-			PCB-53	2130	-		
PCB-4	2750	-			PCB-54	19.6	-	J	
PCB-5	170	-			PCB-55	318	-		
PCB-6	1470	-			PCB-56	4800	-	C	60
PCB-7	669	-			PCB-57	41.7	-		
PCB-8	8360	-			PCB-58	17.2	-	J	
PCB-9	562	-			PCB-59	-	-	C042	42
PCB-10	185	-			PCB-60	-	-	C056	56
PCB-11	7320	-	B		PCB-61	31000	-	C	70
PCB-12	192	-			PCB-62	ND	7.18		
PCB-13	334	-			PCB-63	438	-		
PCB-14	ND	6.17			PCB-64	-	-	C041	41/71/72
PCB-15	1300	-			PCB-65	ND	8.14		
PCB-16	2700	-			PCB-66	11500	-	C	76
PCB-17	4010	-			PCB-67	197	-		
PCB-18	14800	-			PCB-68	51.8	-		
PCB-19	635	-			PCB-69	-	-	C052	52
PCB-20	5530	-	C	21/33	PCB-70	-	-	C061	61
PCB-21	-	-	C020	20/33	PCB-71	-	-	C041	41/64/72
PCB-22	2860	-			PCB-72	-	-	C041	41/64/71
PCB-23	13.2	-	J		PCB-73	223	-		
PCB-24	87.4	-			PCB-74	5660	-		
PCB-25	413	-			PCB-75	-	-	C048	48
PCB-26	1290	-			PCB-76	-	-	C066	66
PCB-27	499	-			PCB-77	350	-		
PCB-28	8780	-			PCB-78	107	-		
PCB-29	46.0	-			PCB-79	376	-		
PCB-30	ND	3.70			PCB-80	ND	6.01		
PCB-31	10800	-			PCB-81	632	-		
PCB-32	2830	-			PCB-82	3330	-		
PCB-33	-	-	C020	20/21	PCB-83	1750	-	C	112
PCB-34	33.9	-	J		PCB-84	23400	-	C	92
PCB-35	91.8	-			PCB-85	4630	-	C	116
PCB-36	15.1	-	J		PCB-86	154	-		
PCB-37	915	-			PCB-87	15800	-	C	117/125
PCB-38	45.4	-			PCB-88	7820	-	C	91
PCB-39	ND	6.33			PCB-89	475	-		
PCB-40	1720	-			PCB-90	55400	-	C	101
PCB-41	10800	-	C	64/71/72	PCB-91	-	-	C088	88
PCB-42	2750	-	C	59	PCB-92	-	-	C084	84
PCB-43	11100	-	C	49	PCB-93	ND	5.94		
PCB-44	17900	-			PCB-94	246	-		
PCB-45	1680	-			PCB-95	51100	-		
PCB-46	629	-			PCB-96	338	-		
PCB-47	2560	-			PCB-97	12300	-		
PCB-48	2350	-	C	75	PCB-98	ND	5.82	C	102
PCB-49	-	-	C043	43	PCB-99	16300	-		
PCB-50	34.2	-	J		PCB-100	105	-		

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EPA Modified Method 1668
PCBs



FAL ID: 8158-002-SA
Client ID: HC20131102-A-2
Matrix: PUF
Batch No: X2965

Date Extracted: 11-06-2013
Date Received: 11-05-2013
Amount: 1.00 sample

ICal: DAILY209FAL4-11-7-13
GC Column: DB1
Units: pg/sample

Acquired: 11-07-2013

Page 2 of 3

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-101	-	-	C090	90	PCB-151	6070	-		
PCB-102	-	-	C098	98	PCB-152	63.7	-		
PCB-103	274	-			PCB-153	12100	-		
PCB-104	ND	3.30			PCB-154	245	-		
PCB-105	5290	-			PCB-155	ND	5.56		
PCB-106	19200	-	C	118	PCB-156	427	-		
PCB-107	1320	-	C	108	PCB-157	86.8	-		
PCB-108	-	-	C107	107	PCB-158	1480	-	C	160
PCB-109	ND	8.97			PCB-159	65.3	-		
PCB-110	27500	-			PCB-160	-	-	C158	158
PCB-111	922	-	C	115	PCB-161	-	-	C132	132
PCB-112	-	-	C083	83	PCB-162	-	-	C128	128
PCB-113	ND	9.89			PCB-163	-	-	C138	138/164
PCB-114	529	-			PCB-164	-	-	C138	138/163
PCB-115	-	-	C111	111	PCB-165	-	-	C146	146
PCB-116	-	-	C085	85	PCB-166	53.9	-		
PCB-117	-	-	C087	87/125	PCB-167	222	-		
PCB-118	-	-	C106	106	PCB-168	ND	6.05		
PCB-119	493	-			PCB-169	ND	4.40		
PCB-120	63.4	-			PCB-170	663	-		
PCB-121	ND	4.89			PCB-171	437	-		
PCB-122	196	-			PCB-172	160	-		
PCB-123	343	-			PCB-173	51.6	-		
PCB-124	1220	-			PCB-174	1650	-		
PCB-125	-	-	C087	87/117	PCB-175	111	-		
PCB-126	50.9	-			PCB-176	487	-		
PCB-127	ND	9.16			PCB-177	987	-		
PCB-128	1220	-	C	162	PCB-178	423	-		
PCB-129	597	-			PCB-179	1510	-		
PCB-130	748	-			PCB-180	1730	-		
PCB-131	669	-	C	133	PCB-181	62.6	-		
PCB-132	6310	-	C	161	PCB-182	2060	-	C	187
PCB-133	-	-	C131	131	PCB-183	1060	-		
PCB-134	1550	-	C	143	PCB-184	ND	4.07		
PCB-135	3930	-			PCB-185	265	-		
PCB-136	6430	-			PCB-186	ND	4.47		
PCB-137	971	-			PCB-187	-	-	C182	182
PCB-138	10000	-	C	163/164	PCB-188	ND	3.67		
PCB-139	18900	-	C	149	PCB-189	11.3	-	J	
PCB-140	301	-			PCB-190	145	-		
PCB-141	3140	-			PCB-191	34.8	-	J	
PCB-142	ND	8.40			PCB-192	ND	5.22		
PCB-143	-	-	C134	134	PCB-193	90.1	-		
PCB-144	1390	-			PCB-194	79.4	-		
PCB-145	27.4	-	J		PCB-195	80.3	-		
PCB-146	2010	-	C	165	PCB-196	270	-	C	203
PCB-147	713	-			PCB-197	27.1	-	J	
PCB-148	129	-			PCB-198	26.3	-	J	
PCB-149	-	-	C139	139	PCB-199	278	-		
PCB-150	55.9	-			PCB-200	81.5	-		

EPA Modified Method 1668
PCBs



FAL ID: 8158-002-SA
Client ID: HC20131102-A-2
Matrix: PUF
Batch No: X2965

Date Extracted: 11-06-2013
Date Received: 11-05-2013
Amount: 1.00 sample

ICal: DAILY209FAL4-11-7-13
GC Column: DB1
Units: pg/sample

Acquired: 11-07-2013


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Compound	Conc	DL	Qual	Coeluters
PCB-201	102	-		
PCB-202	115	-		
PCB-203	-	-	C196	196
PCB-204	ND	2.76		
PCB-205	ND	5.47		
PCB-206	10.3	-	J	
PCB-207	ND	6.89		
PCB-208	11.3	-	J	
PCB-209	ND	4.02		

Internal Standards	% Rec	QC Limits	Qual
13C-PCB-1	105	5.00 - 145	
13C-PCB-3	104	5.00 - 145	
13C-PCB-4	109	5.00 - 145	
13C-PCB-15	119	5.00 - 145	
13C-PCB-19	105	5.00 - 145	
13C-PCB-37	136	5.00 - 145	
13C-PCB-54	110	5.00 - 145	
13C-PCB-77	126	10.0 - 145	
13C-PCB-81	131	10.0 - 145	
13C-PCB-104	113	10.0 - 145	
13C-PCB-105	130	10.0 - 145	
13C-PCB-114	132	10.0 - 145	
13C-PCB-118	132	10.0 - 145	
13C-PCB-123	130	10.0 - 145	
13C-PCB-126	132	10.0 - 145	
13C-PCB-155	106	10.0 - 145	
13C-PCB-156	125	10.0 - 145	
13C-PCB-157	125	10.0 - 145	
13C-PCB-167	127	10.0 - 145	
13C-PCB-169	134	10.0 - 145	
13C-PCB-188	118	10.0 - 145	
13C-PCB-189	129	10.0 - 145	
13C-PCB-202	111	10.0 - 145	
13C-PCB-205	114	10.0 - 145	
13C-PCB-206	110	10.0 - 145	
13C-PCB-208	110	10.0 - 145	
13C-PCB-209	104	10.0 - 145	

Pre-Spike Standards	% Rec	QC Limits	Qual
13C-PCB-28	131	5.00 - 145	
13C-PCB-111	119	10.0 - 145	
13C-PCB-178	111	10.0 - 145	

- A Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
- B Analyte is present in Method Blank
- C Coelution
- D Presence of Diphenyl Ethers
- DNQ Analyte concentration is below calibration range
- E Analyte concentration is above calibration range
- F Analyte confirmation on secondary column
- J Analyte concentration is below calibration range
- M Maximum possible concentration
- ND Analyte Not Detected at Detection Limit Level
- NP Not Provided
- P Pre-filtered through a Whatman 0.7um GF/F filter
- S Sample acceptance criteria not met
- X Matrix interferences
- * Result taken from dilution or reinjection

Analyst: 
Date: 11/13/2013

Reviewed By: 
Date: 11/13/2013

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EPA Modified Method 1668
PCBs



FAL ID: 8158-003-SA
Client ID: HC20131102-A-3
Matrix: PUF
Batch No: X2965

Date Extracted: 11-06-2013
Date Received: 11-05-2013
Amount: 1.00 sample

ICal: DAILY209FAL4-11-7-13
GC Column: DB1
Units: pg/sample

Acquired: 11-07-2013
Total Conc: 163000

Page 1 of 3

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-1	6650	-			PCB-51	350	-		
PCB-2	1060	-			PCB-52	9610	-	C	69
PCB-3	4150	-			PCB-53	1140	-		
PCB-4	2810	-			PCB-54	14.1	-	J	
PCB-5	286	-			PCB-55	68.3	-		
PCB-6	1650	-			PCB-56	1590	-	C	60
PCB-7	738	-			PCB-57	17.3	-	J	
PCB-8	8750	-			PCB-58	ND	6.84		
PCB-9	670	-			PCB-59	-	-	C042	42
PCB-10	269	-			PCB-60	-	-	C056	56
PCB-11	6170	-	B		PCB-61	5160	-	C	70
PCB-12	173	-			PCB-62	ND	6.16		
PCB-13	322	-			PCB-63	129	-		
PCB-14	ND	9.03			PCB-64	-	-	C041	41/71/72
PCB-15	1310	-			PCB-65	ND	6.99		
PCB-16	2070	-			PCB-66	2940	-	C	76
PCB-17	3540	-			PCB-67	96.6	-		
PCB-18	11700	-			PCB-68	36.8	-	J	
PCB-19	677	-			PCB-69	-	-	C052	52
PCB-20	4290	-	C	21/33	PCB-70	-	-	C061	61
PCB-21	-	-	C020	20/33	PCB-71	-	-	C041	41/64/72
PCB-22	2160	-			PCB-72	-	-	C041	41/64/71
PCB-23	12.4	-	J		PCB-73	193	-		
PCB-24	108	-			PCB-74	1480	-		
PCB-25	427	-			PCB-75	-	-	C048	48
PCB-26	1090	-			PCB-76	-	-	C066	66
PCB-27	491	-			PCB-77	114	-		
PCB-28	6710	-			PCB-78	11.8	-	J	
PCB-29	58.1	-			PCB-79	42.7	-		
PCB-30	ND	4.25			PCB-80	ND	5.16		
PCB-31	7030	-			PCB-81	65.8	-		
PCB-32	2620	-			PCB-82	308	-		
PCB-33	-	-	C020	20/21	PCB-83	156	-	C	112
PCB-34	30.9	-	J		PCB-84	2060	-	C	92
PCB-35	75.2	-			PCB-85	443	-	C	116
PCB-36	16.1	-	J		PCB-86	22.8	-	J	
PCB-37	594	-			PCB-87	1280	-	C	117/125
PCB-38	24.4	-	J		PCB-88	806	-	C	91
PCB-39	ND	5.53			PCB-89	62.3	-		
PCB-40	656	-			PCB-90	5450	-	C	101
PCB-41	3790	-	C	64/71/72	PCB-91	-	-	C088	88
PCB-42	1300	-	C	59	PCB-92	-	-	C084	84
PCB-43	3780	-	C	49	PCB-93	ND	4.74		
PCB-44	4320	-			PCB-94	34.8	-	J	
PCB-45	1030	-			PCB-95	5350	-		
PCB-46	389	-			PCB-96	58.2	-		
PCB-47	1370	-			PCB-97	1040	-		
PCB-48	1160	-	C	75	PCB-98	ND	4.64	C	102
PCB-49	-	-	C043	43	PCB-99	1440	-		
PCB-50	23.3	-	J		PCB-100	18.8	-	J	

EPA Modified Method 1668
PCBs



FAL ID: 8158-003-SA
Client ID: HC20131102-A-3
Matrix: PUF
Batch No: X2965

Date Extracted: 11-06-2013
Date Received: 11-05-2013
Amount: 1.00 sample

ICal: DAILY209FAL4-11-7-13
GC Column: DB1
Units: pg/sample

Acquired: 11-07-2013

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Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-101	-	-	C090	90	PCB-151	1600	-		
PCB-102	-	-	C098	98	PCB-152	ND	6.32		
PCB-103	43.2	-			PCB-153	2540	-		
PCB-104	ND	2.63			PCB-154	22.5	-	J	
PCB-105	448	-			PCB-155	10.7	-	J	
PCB-106	1760	-	C	118	PCB-156	75.4	-		
PCB-107	113	-	C	108	PCB-157	ND	7.74		
PCB-108	-	-	C107	107	PCB-158	243	-	C	160
PCB-109	ND	8.73			PCB-159	26.8	-	J	
PCB-110	2290	-			PCB-160	-	-	C158	158
PCB-111	93.2	-	C	115	PCB-161	-	-	C132	132
PCB-112	-	-	C083	83	PCB-162	-	-	C128	128
PCB-113	ND	9.63			PCB-163	-	-	C138	138/164
PCB-114	59.8	-			PCB-164	-	-	C138	138/163
PCB-115	-	-	C111	111	PCB-165	-	-	C146	146
PCB-116	-	-	C085	85	PCB-166	ND	6.60		
PCB-117	-	-	C087	87/125	PCB-167	30.7	-	J	
PCB-118	-	-	C106	106	PCB-168	ND	6.81		
PCB-119	52.6	-			PCB-169	ND	5.58		
PCB-120	12.0	-	J		PCB-170	189	-		
PCB-121	ND	3.90			PCB-171	133	-		
PCB-122	18.7	-	J		PCB-172	47.6	-		
PCB-123	35.4	-	J		PCB-173	ND	9.25		
PCB-124	122	-			PCB-174	583	-		
PCB-125	-	-	C087	87/117	PCB-175	35.9	-	J	
PCB-126	ND	5.62			PCB-176	193	-		
PCB-127	ND	6.79			PCB-177	329	-		
PCB-128	153	-	C	162	PCB-178	173	-		
PCB-129	69.5	-			PCB-179	638	-		
PCB-130	102	-			PCB-180	523	-		
PCB-131	85.3	-	C	133	PCB-181	ND	8.33		
PCB-132	931	-	C	161	PCB-182	803	-	C	187
PCB-133	-	-	C131	131	PCB-183	393	-		
PCB-134	217	-	C	143	PCB-184	ND	5.49		
PCB-135	741	-			PCB-185	95.8	-		
PCB-136	1070	-			PCB-186	ND	6.03		
PCB-137	71.7	-			PCB-187	-	-	C182	182
PCB-138	1880	-	C	163/164	PCB-188	ND	4.60		
PCB-139	4110	-	C	149	PCB-189	ND	4.89		
PCB-140	29.9	-	J		PCB-190	42.6	-		
PCB-141	731	-			PCB-191	ND	6.47		
PCB-142	ND	9.46			PCB-192	ND	7.04		
PCB-143	-	-	C134	134	PCB-193	26.1	-	J	
PCB-144	345	-			PCB-194	23.7	-	J	
PCB-145	ND	6.66			PCB-195	23.9	-	J	
PCB-146	373	-	C	165	PCB-196	96.1	-	C	203
PCB-147	55.6	-			PCB-197	14.0	-	J	
PCB-148	28.7	-	J		PCB-198	ND	9.66		
PCB-149	-	-	C139	139	PCB-199	95.3	-		
PCB-150	ND	6.68			PCB-200	32.3	-	J	

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EPA Modified Method 1668
PCBs



FAL ID: 8158-003-SA
Client ID: HC20131102-A-3
Matrix: PUF
Batch No: X2965

Date Extracted: 11-06-2013
Date Received: 11-05-2013
Amount: 1.00 sample

ICal: DAILY209FAL4-11-7-13
GC Column: DB1
Units: pg/sample

Acquired: 11-07-2013


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Compound	Conc	DL	Qual	Coeluters
PCB-201	41.8	-		
PCB-202	54.0	-		
PCB-203	-	-	C196	196
PCB-204	ND	6.12		
PCB-205	ND	2.74		
PCB-206	ND	8.99		
PCB-207	ND	9.17		
PCB-208	ND	6.69		
PCB-209	ND	4.12		

Internal Standards	% Rec	QC Limits	Qual
13C-PCB-1	81.8	5.00 - 145	
13C-PCB-3	85.7	5.00 - 145	
13C-PCB-4	88.5	5.00 - 145	
13C-PCB-15	95.5	5.00 - 145	
13C-PCB-19	83.0	5.00 - 145	
13C-PCB-37	108	5.00 - 145	
13C-PCB-54	87.2	5.00 - 145	
13C-PCB-77	100	10.0 - 145	
13C-PCB-81	101	10.0 - 145	
13C-PCB-104	91.7	10.0 - 145	
13C-PCB-105	101	10.0 - 145	
13C-PCB-114	105	10.0 - 145	
13C-PCB-118	103	10.0 - 145	
13C-PCB-123	105	10.0 - 145	
13C-PCB-126	102	10.0 - 145	
13C-PCB-155	83.9	10.0 - 145	
13C-PCB-156	94.2	10.0 - 145	
13C-PCB-157	93.4	10.0 - 145	
13C-PCB-167	97.4	10.0 - 145	
13C-PCB-169	101	10.0 - 145	
13C-PCB-188	88.8	10.0 - 145	
13C-PCB-189	101	10.0 - 145	
13C-PCB-202	83.9	10.0 - 145	
13C-PCB-205	91.1	10.0 - 145	
13C-PCB-206	86.8	10.0 - 145	
13C-PCB-208	87.0	10.0 - 145	
13C-PCB-209	83.9	10.0 - 145	

Pre-Spike Standards	% Rec	QC Limits	Qual
13C-PCB-28	106	5.00 - 145	
13C-PCB-111	92.8	10.0 - 145	
13C-PCB-178	89.0	10.0 - 145	

- A Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
- B Analyte is present in Method Blank
- C Coelution
- D Presence of Diphenyl Ethers
- DNQ Analyte concentration is below calibration range
- E Analyte concentration is above calibration range
- F Analyte confirmation on secondary column
- J Analyte concentration is below calibration range
- M Maximum possible concentration
- ND Analyte Not Detected at Detection Limit Level
- NP Not Provided
- P Pre-filtered through a Whatman 0.7um GF/F filter
- S Sample acceptance criteria not met
- X Matrix interferences
- * Result taken from dilution or reinjection

Analyst: 
Date: 11/13/2013

Reviewed By: 
Date: 11/13/2013

EPA Modified Method 1668
PCBs



FAL ID: 8158-004-SA
Client ID: HC20131102-A-4
Matrix: PUF
Batch No: X2965

Date Extracted: 11-06-2013
Date Received: 11-05-2013
Amount: 1.00 sample

ICal: DAILY209FAL4-11-7-13
GC Column: DB1
Units: pg/sample

Acquired: 11-07-2013
Total Conc: 158000

Page 1 of 3

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-1	779	-			PCB-51	130	-		
PCB-2	143	-			PCB-52	9760	-	C	69
PCB-3	410	-			PCB-53	482	-		
PCB-4	771	-			PCB-54	ND	4.69		
PCB-5	107	-			PCB-55	87.0	-		
PCB-6	397	-			PCB-56	1470	-	C	60
PCB-7	140	-			PCB-57	11.1	-	J	
PCB-8	2210	-			PCB-58	ND	6.80		
PCB-9	143	-			PCB-59	-	-	C042	42
PCB-10	46.9	-			PCB-60	-	-	C056	56
PCB-11	4650	-	B		PCB-61	6570	-	C	70
PCB-12	41.5	-			PCB-62	ND	6.13		
PCB-13	94.3	-			PCB-63	105	-		
PCB-14	ND	8.19			PCB-64	-	-	C041	41/71/72
PCB-15	429	-			PCB-65	ND	6.95		
PCB-16	638	-			PCB-66	2730	-	C	76
PCB-17	1060	-			PCB-67	61.1	-		
PCB-18	3280	-			PCB-68	31.2	-	J	
PCB-19	199	-			PCB-69	-	-	C052	52
PCB-20	1610	-	C	21/33	PCB-70	-	-	C061	61
PCB-21	-	-	C020	20/33	PCB-71	-	-	C041	41/64/72
PCB-22	853	-			PCB-72	-	-	C041	41/64/71
PCB-23	ND	5.30			PCB-73	144	-		
PCB-24	39.9	-	J		PCB-74	1320	-		
PCB-25	164	-			PCB-75	-	-	C048	48
PCB-26	404	-			PCB-76	-	-	C066	66
PCB-27	154	-			PCB-77	155	-		
PCB-28	2140	-			PCB-78	25.7	-	J	
PCB-29	23.0	-	J		PCB-79	107	-		
PCB-30	ND	2.98			PCB-80	ND	5.14		
PCB-31	2590	-			PCB-81	172	-		
PCB-32	840	-			PCB-82	781	-		
PCB-33	-	-	C020	20/21	PCB-83	381	-	C	112
PCB-34	11.3	-	J		PCB-84	4920	-	C	92
PCB-35	53.8	-			PCB-85	1040	-	C	116
PCB-36	ND	5.25			PCB-86	53.1	-		
PCB-37	354	-			PCB-87	3470	-	C	117/125
PCB-38	17.8	-	J		PCB-88	1640	-	C	91
PCB-39	ND	5.53			PCB-89	111	-		
PCB-40	442	-			PCB-90	12800	-	C	101
PCB-41	2520	-	C	64/71/72	PCB-91	-	-	C088	88
PCB-42	715	-	C	59	PCB-92	-	-	C084	84
PCB-43	2490	-	C	49	PCB-93	ND	5.69		
PCB-44	3910	-			PCB-94	51.9	-		
PCB-45	385	-			PCB-95	11200	-		
PCB-46	146	-			PCB-96	76.9	-		
PCB-47	635	-			PCB-97	2680	-		
PCB-48	532	-	C	75	PCB-98	ND	5.57	C	102
PCB-49	-	-	C043	43	PCB-99	3390	-		
PCB-50	ND	7.83			PCB-100	24.0	-	J	

EPA Modified Method 1668
PCBs



FAL ID: 8158-004-SA
Client ID: HC20131102-A-4
Matrix: PUF
Batch No: X2965

Date Extracted: 11-06-2013
Date Received: 11-05-2013
Amount: 1.00 sample

ICal: DAILY209FAL4-11-7-13
GC Column: DB1
Units: pg/sample

Acquired: 11-07-2013

Page 2 of 3

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-101	-	-	C090	90	PCB-151	2870	-	-	-
PCB-102	-	-	C098	98	PCB-152	12.6	-	J	-
PCB-103	63.2	-	-	-	PCB-153	5440	-	-	-
PCB-104	ND	2.28	-	-	PCB-154	55.5	-	-	-
PCB-105	1250	-	-	-	PCB-155	ND	5.77	-	-
PCB-106	4740	-	C	118	PCB-156	181	-	-	-
PCB-107	323	-	C	108	PCB-157	29.1	-	J	-
PCB-108	-	-	C107	107	PCB-158	583	-	C	160
PCB-109	ND	8.76	-	-	PCB-159	55.0	-	-	-
PCB-110	6340	-	-	-	PCB-160	-	-	C158	158
PCB-111	212	-	C	115	PCB-161	-	-	C132	132
PCB-112	-	-	C083	83	PCB-162	-	-	C128	128
PCB-113	ND	9.65	-	-	PCB-163	-	-	C138	138/164
PCB-114	128	-	-	-	PCB-164	-	-	C138	138/163
PCB-115	-	-	C111	111	PCB-165	-	-	C146	146
PCB-116	-	-	C085	85	PCB-166	13.6	-	J	-
PCB-117	-	-	C087	87/125	PCB-167	87.1	-	-	-
PCB-118	-	-	C106	106	PCB-168	ND	6.21	-	-
PCB-119	111	-	-	-	PCB-169	ND	4.72	-	-
PCB-120	30.2	-	J	-	PCB-170	441	-	-	-
PCB-121	ND	4.68	-	-	PCB-171	263	-	-	-
PCB-122	50.5	-	-	-	PCB-172	108	-	-	-
PCB-123	93.2	-	-	-	PCB-173	23.5	-	J	-
PCB-124	351	-	-	-	PCB-174	1140	-	-	-
PCB-125	-	-	C087	87/117	PCB-175	72.0	-	-	-
PCB-126	18.4	-	J	-	PCB-176	325	-	-	-
PCB-127	ND	5.84	-	-	PCB-177	653	-	-	-
PCB-128	424	-	C	162	PCB-178	312	-	-	-
PCB-129	182	-	-	-	PCB-179	1070	-	-	-
PCB-130	251	-	-	-	PCB-180	1130	-	-	-
PCB-131	202	-	C	133	PCB-181	24.0	-	J	-
PCB-132	1850	-	C	161	PCB-182	1470	-	C	187
PCB-133	-	-	C131	131	PCB-183	748	-	-	-
PCB-134	506	-	C	143	PCB-184	ND	5.48	-	-
PCB-135	1570	-	-	-	PCB-185	188	-	-	-
PCB-136	2260	-	-	-	PCB-186	ND	6.01	-	-
PCB-137	248	-	-	-	PCB-187	-	-	C182	182
PCB-138	4140	-	C	163/164	PCB-188	ND	4.89	-	-
PCB-139	8090	-	C	149	PCB-189	ND	4.52	-	-
PCB-140	215	-	-	-	PCB-190	93.2	-	-	-
PCB-141	1410	-	-	-	PCB-191	21.2	-	J	-
PCB-142	ND	8.62	-	-	PCB-192	ND	7.02	-	-
PCB-143	-	-	C134	134	PCB-193	64.3	-	-	-
PCB-144	628	-	-	-	PCB-194	56.5	-	-	-
PCB-145	ND	8.62	-	-	PCB-195	55.3	-	-	-
PCB-146	801	-	C	165	PCB-196	185	-	C	203
PCB-147	182	-	-	-	PCB-197	22.4	-	J	-
PCB-148	75.5	-	-	-	PCB-198	14.1	-	J	-
PCB-149	-	-	C139	139	PCB-199	199	-	-	-
PCB-150	14.3	-	J	-	PCB-200	59.4	-	-	-

EPA Modified Method 1668
PCBs



FAL ID: 8158-004-SA
Client ID: HC20131102-A-4
Matrix: PUF
Batch No: X2965

Date Extracted: 11-06-2013
Date Received: 11-05-2013
Amount: 1.00 sample

ICal: DAILY209FAL4-11-7-13
GC Column: DB1
Units: pg/sample

Acquired: 11-07-2013


Page 3 of 3


Compound	Conc	DL	Qual	Coeluters
PCB-201	72.7	-		
PCB-202	79.8	-		
PCB-203	-	-	C196	196
PCB-204	ND	2.39		
PCB-205	ND	3.39		
PCB-206	ND	9.50		
PCB-207	ND	9.77		
PCB-208	ND	7.21		
PCB-209	ND	3.39		

Internal Standards	% Rec	QC Limits	Qual
13C-PCB-1	86.3	5.00 - 145	
13C-PCB-3	88.7	5.00 - 145	
13C-PCB-4	96.0	5.00 - 145	
13C-PCB-15	99.5	5.00 - 145	
13C-PCB-19	87.8	5.00 - 145	
13C-PCB-37	107	5.00 - 145	
13C-PCB-54	94.1	5.00 - 145	
13C-PCB-77	101	10.0 - 145	
13C-PCB-81	103	10.0 - 145	
13C-PCB-104	93.9	10.0 - 145	
13C-PCB-105	103	10.0 - 145	
13C-PCB-114	107	10.0 - 145	
13C-PCB-118	109	10.0 - 145	
13C-PCB-123	108	10.0 - 145	
13C-PCB-126	103	10.0 - 145	
13C-PCB-155	85.3	10.0 - 145	
13C-PCB-156	97.0	10.0 - 145	
13C-PCB-157	95.4	10.0 - 145	
13C-PCB-167	101	10.0 - 145	
13C-PCB-169	101	10.0 - 145	
13C-PCB-188	94.5	10.0 - 145	
13C-PCB-189	103	10.0 - 145	
13C-PCB-202	88.0	10.0 - 145	
13C-PCB-205	93.6	10.0 - 145	
13C-PCB-206	92.1	10.0 - 145	
13C-PCB-208	92.4	10.0 - 145	
13C-PCB-209	91.3	10.0 - 145	

Pre-Spike Standards	% Rec	QC Limits	Qual
13C-PCB-28	105	5.00 - 145	
13C-PCB-111	95.4	10.0 - 145	
13C-PCB-178	91.2	10.0 - 145	

- A Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
- B Analyte is present in Method Blank
- C Coelution
- D Presence of Diphenyl Ethers
- DNQ Analyte concentration is below calibration range
- E Analyte concentration is above calibration range
- F Analyte confirmation on secondary column
- J Analyte concentration is below calibration range
- M Maximum possible concentration
- ND Analyte Not Detected at Detection Limit Level
- NP Not Provided
- P Pre-filtered through a Whatman 0.7um GF/F filter
- S Sample acceptance criteria not met
- X Matrix interferences
- * Result taken from dilution or reinjection

Analyst: 
Date: 11/13/2013

Reviewed By: 
Date: 11/13/2013

EPA Modified Method 1668
PCBs



FAL ID: 8158-005-SA
Client ID: HC20131102-A-5
Matrix: PUF
Batch No: X2965

Date Extracted: 11-06-2013
Date Received: 11-05-2013
Amount: 1.00 sample

ICal: DAILY209FAL4-11-7-13
GC Column: DB1
Units: pg/sample

Acquired: 11-07-2013
Total Conc: 269000

Page 1 of 3

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-1	185	-			PCB-51	104	-		
PCB-2	77.5	-			PCB-52	10900	-	C	69
PCB-3	171	-			PCB-53	310	-		
PCB-4	388	-			PCB-54	ND	3.07		
PCB-5	98.5	-			PCB-55	155	-		
PCB-6	217	-			PCB-56	1910	-	C	60
PCB-7	88.6	-			PCB-57	13.6	-	J	
PCB-8	1150	-			PCB-58	ND	4.46		
PCB-9	63.4	-			PCB-59	-	-	C042	42
PCB-10	29.3	-	J		PCB-60	-	-	C056	56
PCB-11	6530	-	B		PCB-61	13000	-	C	70
PCB-12	19.8	-	J		PCB-62	ND	4.02		
PCB-13	56.0	-			PCB-63	148	-		
PCB-14	ND	8.53			PCB-64	-	-	C041	41/71/72
PCB-15	239	-			PCB-65	ND	4.56		
PCB-16	376	-			PCB-66	4010	-	C	76
PCB-17	564	-			PCB-67	74.7	-		
PCB-18	1750	-			PCB-68	36.8	-	J	
PCB-19	107	-			PCB-69	-	-	C052	52
PCB-20	915	-	C	21/33	PCB-70	-	-	C061	61
PCB-21	-	-	C020	20/33	PCB-71	-	-	C041	41/64/72
PCB-22	496	-			PCB-72	-	-	C041	41/64/71
PCB-23	ND	5.42			PCB-73	204	-		
PCB-24	34.5	-	J		PCB-74	1980	-		
PCB-25	93.4	-			PCB-75	-	-	C048	48
PCB-26	240	-			PCB-76	-	-	C066	66
PCB-27	71.4	-			PCB-77	262	-		
PCB-28	1300	-			PCB-78	66.2	-		
PCB-29	13.4	-	J		PCB-79	241	-		
PCB-30	ND	1.63			PCB-80	ND	3.37		
PCB-31	1370	-			PCB-81	413	-		
PCB-32	410	-			PCB-82	2070	-		
PCB-33	-	-	C020	20/21	PCB-83	957	-	C	112
PCB-34	ND	6.51			PCB-84	10900	-	C	92
PCB-35	66.6	-			PCB-85	2650	-	C	116
PCB-36	12.6	-	J		PCB-86	130	-		
PCB-37	276	-			PCB-87	8780	-	C	117/125
PCB-38	12.6	-	J		PCB-88	3330	-	C	91
PCB-39	ND	5.64			PCB-89	189	-		
PCB-40	468	-			PCB-90	28900	-	C	101
PCB-41	2720	-	C	64/71/72	PCB-91	-	-	C088	88
PCB-42	624	-	C	59	PCB-92	-	-	C084	84
PCB-43	2350	-	C	49	PCB-93	ND	3.58		
PCB-44	4640	-			PCB-94	85.5	-		
PCB-45	231	-			PCB-95	21800	-		
PCB-46	87.5	-			PCB-96	107	-		
PCB-47	579	-			PCB-97	6810	-		
PCB-48	378	-	C	75	PCB-98	ND	3.51	C	102
PCB-49	-	-	C043	43	PCB-99	8130	-		
PCB-50	ND	5.12			PCB-100	43.9	-		

EPA Modified Method 1668
PCBs



FAL ID: 8158-005-SA
Client ID: HC20131102-A-5
Matrix: PUF
Batch No: X2965

Date Extracted: 11-06-2013
Date Received: 11-05-2013
Amount: 1.00 sample

ICal: DAILY209FAL4-11-7-13
GC Column: DB1
Units: pg/sample

Acquired: 11-07-2013

Page 2 of 3

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-101	-	-	C090	90	PCB-151	4300	-		
PCB-102	-	-	C098	98	PCB-152	28.8	-	J	
PCB-103	104	-			PCB-153	9650	-		
PCB-104	ND	1.99			PCB-154	148	-		
PCB-105	3670	-			PCB-155	ND	6.60		
PCB-106	14300	-	C	118	PCB-156	398	-		
PCB-107	920	-	C	108	PCB-157	74.8	-		
PCB-108	-	-	C107	107	PCB-158	1160	-	C	160
PCB-109	ND	8.00			PCB-159	59.8	-		
PCB-110	16800	-			PCB-160	-	-	C158	158
PCB-111	515	-	C	115	PCB-161	-	-	C132	132
PCB-112	-	-	C083	83	PCB-162	-	-	C128	128
PCB-113	ND	8.82			PCB-163	-	-	C138	138/164
PCB-114	391	-			PCB-164	-	-	C138	138/163
PCB-115	-	-	C111	111	PCB-165	-	-	C146	146
PCB-116	-	-	C085	85	PCB-166	37.2	-	J	
PCB-117	-	-	C087	87/125	PCB-167	215	-		
PCB-118	-	-	C106	106	PCB-168	ND	3.40		
PCB-119	264	-			PCB-169	ND	2.91		
PCB-120	44.1	-			PCB-170	658	-		
PCB-121	ND	2.95			PCB-171	387	-		
PCB-122	122	-			PCB-172	153	-		
PCB-123	239	-			PCB-173	40.5	-		
PCB-124	876	-			PCB-174	1540	-		
PCB-125	-	-	C087	87/117	PCB-175	93.5	-		
PCB-126	41.2	-			PCB-176	448	-		
PCB-127	ND	8.23			PCB-177	942	-		
PCB-128	1030	-	C	162	PCB-178	416	-		
PCB-129	486	-			PCB-179	1410	-		
PCB-130	636	-			PCB-180	1630	-		
PCB-131	496	-	C	133	PCB-181	33.4	-	J	
PCB-132	4390	-	C	161	PCB-182	1910	-	C	187
PCB-133	-	-	C131	131	PCB-183	982	-		
PCB-134	1120	-	C	143	PCB-184	ND	7.38		
PCB-135	2620	-			PCB-185	232	-		
PCB-136	4150	-			PCB-186	ND	8.10		
PCB-137	682	-			PCB-187	-	-	C182	182
PCB-138	8310	-	C	163/164	PCB-188	ND	6.55		
PCB-139	14300	-	C	149	PCB-189	10.5	-	J	
PCB-140	155	-			PCB-190	144	-		
PCB-141	2510	-			PCB-191	32.9	-	J	
PCB-142	ND	4.73			PCB-192	ND	9.46		
PCB-143	-	-	C134	134	PCB-193	83.3	-		
PCB-144	1150	-			PCB-194	77.5	-		
PCB-145	ND	9.84			PCB-195	73.0	-		
PCB-146	1580	-	C	165	PCB-196	253	-	C	203
PCB-147	396	-			PCB-197	28.4	-	J	
PCB-148	47.6	-			PCB-198	18.7	-	J	
PCB-149	-	-	C139	139	PCB-199	262	-		
PCB-150	29.2	-	J		PCB-200	81.4	-		

EPA Modified Method 1668
PCBs



FAL ID: 8158-005-SA
Client ID: HC20131102-A-5
Matrix: PUF
Batch No: X2965

Date Extracted: 11-06-2013
Date Received: 11-05-2013
Amount: 1.00 sample

ICal: DAILY209FAL4-11-7-13
GC Column: DB1
Units: pg/sample

Acquired: 11-07-2013


Page 3 of 3


Compound	Conc	DL	Qual	Coeluters
PCB-201	92.9	-		
PCB-202	102	-		
PCB-203	-	-	C196	196
PCB-204	ND	2.13		
PCB-205	ND	5.15		
PCB-206	11.2	-	J	
PCB-207	ND	5.19		
PCB-208	11.6	-	J	
PCB-209	ND	3.48		

Internal Standards	% Rec	QC Limits	Qual
13C-PCB-1	83.3	5.00 - 145	
13C-PCB-3	84.5	5.00 - 145	
13C-PCB-4	93.0	5.00 - 145	
13C-PCB-15	99.1	5.00 - 145	
13C-PCB-19	88.0	5.00 - 145	
13C-PCB-37	114	5.00 - 145	
13C-PCB-54	91.7	5.00 - 145	
13C-PCB-77	104	10.0 - 145	
13C-PCB-81	106	10.0 - 145	
13C-PCB-104	97.0	10.0 - 145	
13C-PCB-105	107	10.0 - 145	
13C-PCB-114	111	10.0 - 145	
13C-PCB-118	111	10.0 - 145	
13C-PCB-123	109	10.0 - 145	
13C-PCB-126	110	10.0 - 145	
13C-PCB-155	88.7	10.0 - 145	
13C-PCB-156	105	10.0 - 145	
13C-PCB-157	107	10.0 - 145	
13C-PCB-167	107	10.0 - 145	
13C-PCB-169	115	10.0 - 145	
13C-PCB-188	93.4	10.0 - 145	
13C-PCB-189	107	10.0 - 145	
13C-PCB-202	88.4	10.0 - 145	
13C-PCB-205	94.3	10.0 - 145	
13C-PCB-206	88.0	10.0 - 145	
13C-PCB-208	88.3	10.0 - 145	
13C-PCB-209	83.0	10.0 - 145	

Pre-Spike Standards	% Rec	QC Limits	Qual
13C-PCB-28	107	5.00 - 145	
13C-PCB-111	96.8	10.0 - 145	
13C-PCB-178	93.4	10.0 - 145	

A	Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
B	Analyte is present in Method Blank
C	Coelution
D	Presence of Diphenyl Ethers
DNQ	Analyte concentration is below calibration range
E	Analyte concentration is above calibration range
F	Analyte confirmation on secondary column
J	Analyte concentration is below calibration range
M	Maximum possible concentration
ND	Analyte Not Detected at Detection Limit Level
NP	Not Provided
P	Pre-filtered through a Whatman 0.7um GF/F filter
S	Sample acceptance criteria not met
X	Matrix interferences
*	Result taken from dilution or reinjection

Analyst: 
Date: 11/13/2013

Reviewed By: 
Date: 11/13/2013

EPA Modified Method 1668
PCBs



FAL ID: 8158-006-SA
Client ID: HC20131102-A-6
Matrix: PUF
Batch No: X2965

Date Extracted: 11-06-2013
Date Received: 11-05-2013
Amount: 1.00 sample

ICal: DAILY209FAL4-11-7-13
GC Column: DB1
Units: pg/sample

Acquired: 11-08-2013
Total Conc: 239000

Page 1 of 3

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-1	672	-			PCB-51	125	-		
PCB-2	171	-			PCB-52	8590	-	C	69
PCB-3	447	-			PCB-53	426	-		
PCB-4	635	-			PCB-54	ND	4.66		
PCB-5	122	-			PCB-55	111	-		
PCB-6	411	-			PCB-56	1760	-	C	60
PCB-7	135	-			PCB-57	12.7	-	J	
PCB-8	2080	-			PCB-58	ND	6.75		
PCB-9	136	-			PCB-59	-	-	C042	42
PCB-10	45.7	-			PCB-60	-	-	C056	56
PCB-11	4620	-	B		PCB-61	9820	-	C	70
PCB-12	36.2	-	J		PCB-62	ND	6.09		
PCB-13	102	-			PCB-63	119	-		
PCB-14	ND	7.10			PCB-64	-	-	C041	41/71/72
PCB-15	370	-			PCB-65	ND	6.90		
PCB-16	547	-			PCB-66	3540	-	C	76
PCB-17	955	-			PCB-67	85.2	-		
PCB-18	2990	-			PCB-68	34.3	-	J	
PCB-19	174	-			PCB-69	-	-	C052	52
PCB-20	1310	-	C	21/33	PCB-70	-	-	C061	61
PCB-21	-	-	C020	20/33	PCB-71	-	-	C041	41/64/72
PCB-22	691	-			PCB-72	-	-	C041	41/64/71
PCB-23	ND	8.22			PCB-73	78.7	-		
PCB-24	48.6	-			PCB-74	1540	-		
PCB-25	139	-			PCB-75	-	-	C048	48
PCB-26	363	-			PCB-76	-	-	C066	66
PCB-27	122	-			PCB-77	308	-		
PCB-28	1890	-			PCB-78	61.6	-		
PCB-29	18.5	-	J		PCB-79	216	-		
PCB-30	ND	1.98			PCB-80	ND	5.10		
PCB-31	2160	-			PCB-81	364	-		
PCB-32	739	-			PCB-82	1850	-		
PCB-33	-	-	C020	20/21	PCB-83	806	-	C	112
PCB-34	ND	9.88			PCB-84	8800	-	C	92
PCB-35	69.9	-			PCB-85	2260	-	C	116
PCB-36	ND	8.11			PCB-86	77.5	-		
PCB-37	295	-			PCB-87	7790	-	C	117/125
PCB-38	14.4	-	J		PCB-88	2580	-	C	91
PCB-39	ND	8.56			PCB-89	173	-		
PCB-40	431	-			PCB-90	24100	-	C	101
PCB-41	2470	-	C	64/71/72	PCB-91	-	-	C088	88
PCB-42	650	-	C	59	PCB-92	-	-	C084	84
PCB-43	2200	-	C	49	PCB-93	ND	5.51		
PCB-44	3730	-			PCB-94	74.9	-		
PCB-45	335	-			PCB-95	16800	-		
PCB-46	137	-			PCB-96	83.5	-		
PCB-47	586	-			PCB-97	5990	-		
PCB-48	496	-	C	75	PCB-98	ND	5.40	C	102
PCB-49	-	-	C043	43	PCB-99	6780	-		
PCB-50	ND	7.76			PCB-100	32.1	-	J	

000022 of 000046

EPA Modified Method 1668
PCBs



FAL ID: 8158-006-SA
Client ID: HC20131102-A-6
Matrix: PUF
Batch No: X2965

Date Extracted: 11-06-2013
Date Received: 11-05-2013
Amount: 1.00 sample

ICal: DAILY209FAL4-11-7-13
GC Column: DB1
Units: pg/sample

Acquired: 11-08-2013

Page 2 of 3

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-101	-	-	C090	90	PCB-151	3910	-		
PCB-102	-	-	C098	98	PCB-152	27.6	-	J	
PCB-103	77.3	-			PCB-153	8630	-		
PCB-104	ND	3.06			PCB-154	143	-		
PCB-105	3450	-			PCB-155	ND	2.05		
PCB-106	13000	-	C	118	PCB-156	320	-		
PCB-107	880	-	C	108	PCB-157	69.4	-		
PCB-108	-	-	C107	107	PCB-158	1110	-	C	160
PCB-109	ND	6.86			PCB-159	33.4	-	J	
PCB-110	15000	-			PCB-160	-	-	C158	158
PCB-111	449	-	C	115	PCB-161	-	-	C132	132
PCB-112	-	-	C083	83	PCB-162	-	-	C128	128
PCB-113	ND	7.57			PCB-163	-	-	C138	138/164
PCB-114	310	-			PCB-164	-	-	C138	138/163
PCB-115	-	-	C111	111	PCB-165	-	-	C146	146
PCB-116	-	-	C085	85	PCB-166	37.6	-	J	
PCB-117	-	-	C087	87/125	PCB-167	200	-		
PCB-118	-	-	C106	106	PCB-168	ND	4.24		
PCB-119	222	-			PCB-169	ND	3.15		
PCB-120	31.7	-	J		PCB-170	392	-		
PCB-121	1890	4.53			PCB-171	268	-		
PCB-122	127	-			PCB-172	106	-		
PCB-123	222	-			PCB-173	30.9	-	J	
PCB-124	868	-			PCB-174	1040	-		
PCB-125	-	-	C087	87/117	PCB-175	71.6	-		
PCB-126	38.6	-	J		PCB-176	330	-		
PCB-127	ND	5.60			PCB-177	615	-		
PCB-128	953	-	C	162	PCB-178	286	-		
PCB-129	458	-			PCB-179	1040	-		
PCB-130	567	-			PCB-180	1080	-		
PCB-131	469	-	C	133	PCB-181	57.9	-		
PCB-132	4320	-	C	161	PCB-182	1330	-	C	187
PCB-133	-	-	C131	131	PCB-183	684	-		
PCB-134	1010	-	C	143	PCB-184	ND	7.26		
PCB-135	2520	-			PCB-185	174	-		
PCB-136	3810	-			PCB-186	ND	7.97		
PCB-137	692	-			PCB-187	-	-	C182	182
PCB-138	7290	-	C	163/164	PCB-188	ND	6.62		
PCB-139	13400	-	C	149	PCB-189	ND	5.84		
PCB-140	155	-			PCB-190	87.6	-		
PCB-141	2210	-			PCB-191	21.1	-	J	
PCB-142	ND	5.90			PCB-192	ND	9.31		
PCB-143	-	-	C134	134	PCB-193	59.2	-		
PCB-144	1010	-			PCB-194	41.6	-		
PCB-145	ND	3.06			PCB-195	46.6	-		
PCB-146	1420	-	C	165	PCB-196	178	-	C	203
PCB-147	443	-			PCB-197	20.5	-	J	
PCB-148	52.8	-			PCB-198	17.3	-	J	
PCB-149	-	-	C139	139	PCB-199	175	-		
PCB-150	28.9	-	J		PCB-200	53.2	-		

EPA Modified Method 1668
PCBs



FAL ID: 8158-006-SA
Client ID: HC20131102-A-6
Matrix: PUF
Batch No: X2965

Date Extracted: 11-06-2013
Date Received: 11-05-2013
Amount: 1.00 sample

ICal: DAILY209FAL4-11-7-13
GC Column: DB1
Units: pg/sample

Acquired: 11-08-2013


Page 3 of 3


Compound	Conc	DL	Qual	Coeluters
PCB-201	66.0	-		
PCB-202	76.4	-		
PCB-203	-	-	C196	196
PCB-204	ND	2.13		
PCB-205	ND	2.50		
PCB-206	ND	8.57		
PCB-207	ND	8.72		
PCB-208	ND	6.34		
PCB-209	ND	3.52		

Internal Standards	% Rec	QC Limits	Qual
13C-PCB-1	72.1	5.00 - 145	
13C-PCB-3	83.7	5.00 - 145	
13C-PCB-4	89.4	5.00 - 145	
13C-PCB-15	95.6	5.00 - 145	
13C-PCB-19	82.7	5.00 - 145	
13C-PCB-37	110	5.00 - 145	
13C-PCB-54	92.0	5.00 - 145	
13C-PCB-77	103	10.0 - 145	
13C-PCB-81	108	10.0 - 145	
13C-PCB-104	94.0	10.0 - 145	
13C-PCB-105	104	10.0 - 145	
13C-PCB-114	109	10.0 - 145	
13C-PCB-118	111	10.0 - 145	
13C-PCB-123	108	10.0 - 145	
13C-PCB-126	106	10.0 - 145	
13C-PCB-155	80.8	10.0 - 145	
13C-PCB-156	98.9	10.0 - 145	
13C-PCB-157	97.4	10.0 - 145	
13C-PCB-167	101	10.0 - 145	
13C-PCB-169	105	10.0 - 145	
13C-PCB-188	92.5	10.0 - 145	
13C-PCB-189	103	10.0 - 145	
13C-PCB-202	82.8	10.0 - 145	
13C-PCB-205	93.1	10.0 - 145	
13C-PCB-206	89.4	10.0 - 145	
13C-PCB-208	86.6	10.0 - 145	
13C-PCB-209	82.2	10.0 - 145	

Pre-Spike Standards	% Rec	QC Limits	Qual
13C-PCB-28	107	5.00 - 145	
13C-PCB-111	97.7	10.0 - 145	
13C-PCB-178	85.7	10.0 - 145	

- A Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
- B Analyte is present in Method Blank
- C Coelution
- D Presence of Diphenyl Ethers
- DNQ Analyte concentration is below calibration range
- E Analyte concentration is above calibration range
- F Analyte confirmation on secondary column
- J Analyte concentration is below calibration range
- M Maximum possible concentration
- ND Analyte Not Detected at Detection Limit Level
- NP Not Provided
- P Pre-filtered through a Whatman 0.7um GF/F filter
- S Sample acceptance criteria not met
- X Matrix interferences
- * Result taken from dilution or reinjection

Analyst: 
Date: 11/13/2013

Reviewed By: 
Date: 11/13/2013

EPA Modified Method 1668
PCBs



FAL ID: 8158-007-SA
Client ID: HC20131102-A-7
Matrix: PUF
Batch No: X2965

Date Extracted: 11-06-2013
Date Received: 11-05-2013
Amount: 1.00 sample

ICal: DAILY209FAL4-11-8-13
GC Column: DB1
Units: pg/sample

Acquired: 11-08-2013
Total Conc: 375000

Page 1 of 3

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-1	2410	-			PCB-51	211	-		
PCB-2	371	-			PCB-52	8760	-	C	69
PCB-3	1410	-			PCB-53	717	-		
PCB-4	1980	-			PCB-54	ND	5.97		
PCB-5	88.0	-			PCB-55	53.1	-		
PCB-6	1070	-			PCB-56	1170	-	C	60
PCB-7	348	-			PCB-57	17.6	-	J	
PCB-8	5010	-			PCB-58	ND	8.01		
PCB-9	400	-			PCB-59	-	-		
PCB-10	113	-			PCB-60	-	-	C042	42
PCB-11	6190	-	B		PCB-61	4010	-	C056	56
PCB-12	114	-			PCB-62	ND	8.77	C	70
PCB-13	266	-			PCB-63	97.7	-		
PCB-14	ND	7.08			PCB-64	-	-	C041	41/71/72
PCB-15	1020	-			PCB-65	ND	7.74		
PCB-16	1450	-			PCB-66	1860	-	C	76
PCB-17	1900	-			PCB-67	97.5	-		
PCB-18	5500	-			PCB-68	42.3	-		
PCB-19	358	-			PCB-69	-	-	C052	52
PCB-20	2710	-	C	21/33	PCB-70	-	-	C061	61
PCB-21	-	-	C020	20/33	PCB-71	-	-	C041	41/64/72
PCB-22	1370	-			PCB-72	-	-	C041	41/64/71
PCB-23	ND	8.03			PCB-73	52.7	-		
PCB-24	53.8	-			PCB-74	1000	-		
PCB-25	310	-			PCB-75	-	-	C048	48
PCB-26	701	-			PCB-76	-	-	C066	66
PCB-27	304	-			PCB-77	177	-		
PCB-28	3840	-			PCB-78	12.8	-	J	
PCB-29	41.6	-			PCB-79	42.4	-		
PCB-30	ND	3.54			PCB-80	835	-		
PCB-31	3840	-			PCB-81	142	-		
PCB-32	1180	-			PCB-82	265	-		
PCB-33	-	-	C020	20/21	PCB-83	154	-	C	112
PCB-34	17.2	-	J		PCB-84	4260	-	C	92
PCB-35	81.1	-			PCB-85	380	-	C	116
PCB-36	ND	6.96			PCB-86	15.7	-	J	
PCB-37	570	-			PCB-87	2940	-	C	117/125
PCB-38	18.7	-	J		PCB-88	747	-	C	91
PCB-39	ND	7.42			PCB-89	35.4	-	J	
PCB-40	466	-			PCB-90	30400	-	C	101
PCB-41	2570	-	C	64/71/72	PCB-91	-	-	C088	88
PCB-42	876	-	C	59	PCB-92	-	-	C084	84
PCB-43	2740	-	C	49	PCB-93	ND	5.86		
PCB-44	3130	-			PCB-94	39.7	-	J	
PCB-45	607	-			PCB-95	24600	-		
PCB-46	237	-			PCB-96	67.3	-		
PCB-47	867	-			PCB-97	1240	-		
PCB-48	706	-	C	75	PCB-98	ND	5.55	C	102
PCB-49	-	-	C043	43	PCB-99	1390	-		
PCB-50	ND	10.0			PCB-100	16.9	-	J	

EPA Modified Method 1668
PCBs



FAL ID: 8158-007-SA
Client ID: HC20131102-A-7
Matrix: PUF
Batch No: X2965

Date Extracted: 11-06-2013
Date Received: 11-05-2013
Amount: 1.00 sample

ICal: DAILY209FAL4-11-8-13
GC Column: DB1
Units: pg/sample

Acquired: 11-08-2013

Page 2 of 3

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-101	-	-	C090	90	PCB-151	16200	-		
PCB-102	-	-	C098	98	PCB-152	ND	7.42		
PCB-103	50.9	-			PCB-153	34300	-		
PCB-104	ND	3.29			PCB-154	49.4	-		
PCB-105	844	-			PCB-155	ND	5.40		
PCB-106	4810	-	C	118	PCB-156	732	-		
PCB-107	159	-	C	108	PCB-157	49.9	-		
PCB-108	-	-	C107	107	PCB-158	2150	-	C	160
PCB-109	ND	5.09			PCB-159	344	-		
PCB-110	7610	-			PCB-160	-	-	C158	158
PCB-111	76.4	-	C	115	PCB-161	-	-	C132	132
PCB-112	-	-	C083	83	PCB-162	-	-	C128	128
PCB-113	ND	4.92			PCB-163	-	-	C138	138/164
PCB-114	111	-			PCB-164	-	-	C138	138/163
PCB-115	-	-	C111	111	PCB-165	-	-	C146	146
PCB-116	-	-	C085	85	PCB-166	87.8	-		
PCB-117	-	-	C087	87/125	PCB-167	339	-		
PCB-118	-	-	C106	106	PCB-168	ND	9.25		
PCB-119	35.8	-	J		PCB-169	ND	6.63		
PCB-120	117	-			PCB-170	3280	-		
PCB-121	ND	4.63			PCB-171	1770	-		
PCB-122	14.2	-	J		PCB-172	773	-		
PCB-123	25.9	-	J		PCB-173	161	-		
PCB-124	364	-			PCB-174	8370	-		
PCB-125	-	-	C087	87/117	PCB-175	419	-		
PCB-126	19.4	-	J		PCB-176	1760	-		
PCB-127	ND	8.98			PCB-177	4300	-		
PCB-128	942	-	C	162	PCB-178	1840	-		
PCB-129	281	-			PCB-179	5730	-		
PCB-130	738	-			PCB-180	9610	-		
PCB-131	481	-	C	133	PCB-181	43.0	-		
PCB-132	7480	-	C	161	PCB-182	10600	-	C	187
PCB-133	-	-	C131	131	PCB-183	4940	-		
PCB-134	1400	-	C	143	PCB-184	ND	4.27		
PCB-135	5800	-			PCB-185	1290	-		
PCB-136	8110	-			PCB-186	ND	4.73		
PCB-137	77.5	-			PCB-187	-	-	C182	182
PCB-138	20200	-	C	163/164	PCB-188	ND	3.88		
PCB-139	41100	-	C	149	PCB-189	46.6	-		
PCB-140	23.7	-	J		PCB-190	755	-		
PCB-141	8390	-			PCB-191	167	-		
PCB-142	ND	9.81			PCB-192	ND	5.41		
PCB-143	-	-	C134	134	PCB-193	456	-		
PCB-144	3160	-			PCB-194	530	-		
PCB-145	ND	7.96			PCB-195	451	-		
PCB-146	3650	-	C	165	PCB-196	1390	-	C	203
PCB-147	77.2	-			PCB-197	121	-		
PCB-148	35.3	-	J		PCB-198	93.3	-		
PCB-149	-	-	C139	139	PCB-199	1340	-		
PCB-150	17.4	-	J		PCB-200	346	-		

EPA Modified Method 1668
PCBs



FAL ID: 8158-007-SA
Client ID: HC20131102-A-7
Matrix: PUF
Batch No: X2965

Date Extracted: 11-06-2013
Date Received: 11-05-2013
Amount: 1.00 sample

ICal: DAILY209FAL4-11-8-13
GC Column: DB1
Units: pg/sample

Acquired: 11-08-2013


Page 3 of 3


Compound	Conc	DL	Qual	Coeluters
PCB-201	378	-		
PCB-202	374	-		
PCB-203	-	-	C196	196
PCB-204	ND	3.36		
PCB-205	29.6	-	J	
PCB-206	53.8	-		
PCB-207	25.8	-	J	
PCB-208	26.7	-	J	
PCB-209	ND	4.29		

Internal Standards	% Rec	QC Limits	Qual
13C-PCB-1	85.6	5.00 - 145	
13C-PCB-3	89.9	5.00 - 145	
13C-PCB-4	88.3	5.00 - 145	
13C-PCB-15	94.5	5.00 - 145	
13C-PCB-19	90.5	5.00 - 145	
13C-PCB-37	103	5.00 - 145	
13C-PCB-54	88.6	5.00 - 145	
13C-PCB-77	102	10.0 - 145	
13C-PCB-81	99.7	10.0 - 145	
13C-PCB-104	93.0	10.0 - 145	
13C-PCB-105	102	10.0 - 145	
13C-PCB-114	98.7	10.0 - 145	
13C-PCB-118	97.4	10.0 - 145	
13C-PCB-123	108	10.0 - 145	
13C-PCB-126	100	10.0 - 145	
13C-PCB-155	93.6	10.0 - 145	
13C-PCB-156	96.7	10.0 - 145	
13C-PCB-157	97.9	10.0 - 145	
13C-PCB-167	99.3	10.0 - 145	
13C-PCB-169	102	10.0 - 145	
13C-PCB-188	90.2	10.0 - 145	
13C-PCB-189	98.7	10.0 - 145	
13C-PCB-202	89.0	10.0 - 145	
13C-PCB-205	95.7	10.0 - 145	
13C-PCB-206	101	10.0 - 145	
13C-PCB-208	102	10.0 - 145	
13C-PCB-209	98.9	10.0 - 145	

Pre-Spike Standards	% Rec	QC Limits	Qual
13C-PCB-28	101	5.00 - 145	
13C-PCB-111	95.5	10.0 - 145	
13C-PCB-178	89.9	10.0 - 145	

- A Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
- B Analyte is present in Method Blank
- C Coelution
- D Presence of Diphenyl Ethers
- DNQ Analyte concentration is below calibration range
- E Analyte concentration is above calibration range
- F Analyte confirmation on secondary column
- J Analyte concentration is below calibration range
- M Maximum possible concentration
- ND Analyte Not Detected at Detection Limit Level
- NP Not Provided
- P Pre-filtered through a Whatman 0.7um GF/F filter
- S Sample acceptance criteria not met
- X Matrix interferences
- * Result taken from dilution or reinjection

Analyst: 
Date: 11/13/2013

Reviewed By: 
Date: 11/13/2013

EPA Modified Method 1668
PCBs



FAL ID: 8158-008-SA
Client ID: HC20131102-A-8
Matrix: PUF
Batch No: X2965

Date Extracted: 11-06-2013
Date Received: 11-05-2013
Amount: 1.00 sample

ICal: DAILY209FAL4-11-8-13
GC Column: DB1
Units: pg/sample

Acquired: 11-08-2013
Total Conc: 203000

Page 1 of 3

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-1	1420	-			PCB-51	215	-		
PCB-2	346	-			PCB-52	30000	-	C	69
PCB-3	880	-			PCB-53	1290	-		
PCB-4	1620	-			PCB-54	10.6	-	J	
PCB-5	81.3	-			PCB-55	99.4	-		
PCB-6	917	-			PCB-56	1160	-	C	60
PCB-7	326	-			PCB-57	18.5	-	J	
PCB-8	4270	-			PCB-58	ND	3.16		
PCB-9	314	-			PCB-59	-	-		
PCB-10	74.8	-			PCB-60	-	-	C042	42
PCB-11	20300	-	B		PCB-61	10300	-	C056	56
PCB-12	74.5	-			PCB-62	ND	-	C	70
PCB-13	165	-			PCB-63	137	3.46		
PCB-14	ND	10.0			PCB-64	-	-	C041	41/71/72
PCB-15	736	-			PCB-65	ND	3.05		
PCB-16	1120	-			PCB-66	3230	-	C	76
PCB-17	1790	-			PCB-67	57.7	-		
PCB-18	5140	-			PCB-68	22.4	-	J	
PCB-19	328	-			PCB-69	-	-	C052	52
PCB-20	2190	-	C	21/33	PCB-70	-	-	C061	61
PCB-21	-	-	C020	20/33	PCB-71	-	-	C041	41/64/72
PCB-22	1050	-			PCB-72	-	-	C041	41/64/71
PCB-23	ND	8.09			PCB-73	116	-		
PCB-24	38.6	-	J		PCB-74	2070	-		
PCB-25	244	-			PCB-75	-	-	C048	48
PCB-26	562	-			PCB-76	-	-	C066	66
PCB-27	281	-			PCB-77	62.2	-		
PCB-28	3150	-			PCB-78	30.8	-	J	
PCB-29	38.0	-	J		PCB-79	115	-		
PCB-30	ND	3.71			PCB-80	ND	2.56		
PCB-31	3940	-			PCB-81	158	-		
PCB-32	1190	-			PCB-82	683	-		
PCB-33	-	-	C020	20/21	PCB-83	427	-	C	112
PCB-34	14.0	-	J		PCB-84	6050	-	C	92
PCB-35	68.2	-			PCB-85	1060	-	C	116
PCB-36	ND	7.01			PCB-86	31.1	-	J	
PCB-37	306	-			PCB-87	3530	-	C	117/125
PCB-38	23.2	-	J		PCB-88	2580	-	C	91
PCB-39	ND	7.47			PCB-89	107	-		
PCB-40	582	-			PCB-90	13700	-	C	101
PCB-41	4480	-	C	64/71/72	PCB-91	-	-	C088	88
PCB-42	991	-	C	59	PCB-92	-	-	C084	84
PCB-43	7450	-	C	49	PCB-93	ND	5.56		
PCB-44	9660	-			PCB-94	104	-		
PCB-45	602	-			PCB-95	16900	-		
PCB-46	257	-			PCB-96	194	-		
PCB-47	1280	-			PCB-97	2760	-		
PCB-48	758	-	C	75	PCB-98	ND	5.26	C	102
PCB-49	-	-	C043	43	PCB-99	4820	-		
PCB-50	15.7	-	J		PCB-100	62.0	-		

EPA Modified Method 1668
PCBs



FAL ID: 8158-008-SA
Client ID: HC20131102-A-8
Matrix: PUF
Batch No: X2965

Date Extracted: 11-06-2013
Date Received: 11-05-2013
Amount: 1.00 sample

ICal: DAILY209FAL4-11-8-13
GC Column: DB1
Units: pg/sample

Acquired: 11-08-2013

Page 2 of 3

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-101	-	-	C090	90	PCB-151	763	-		
PCB-102	-	-	C098	98	PCB-152	16.9	-	J	
PCB-103	151	-			PCB-153	1430	-		
PCB-104	ND	3.12			PCB-154	50.0	-		
PCB-105	825	-			PCB-155	ND	3.43		
PCB-106	3450	-	C	118	PCB-156	69.3	-		
PCB-107	255	-	C	108	PCB-157	18.1	-	J	
PCB-108	-	-	C107	107	PCB-158	205	-	C	160
PCB-109	ND	5.34			PCB-159	ND	4.87		
PCB-110	5380	-			PCB-160	-	-	C158	158
PCB-111	208	-	C	115	PCB-161	-	-	C132	132
PCB-112	-	-	C083	83	PCB-162	-	-	C128	128
PCB-113	ND	5.16			PCB-163	-	-	C138	138/164
PCB-114	91.3	-			PCB-164	-	-	C138	138/163
PCB-115	-	-	C111	111	PCB-165	-	-	C146	146
PCB-116	-	-	C085	85	PCB-166	11.9	-	J	
PCB-117	-	-	C087	87/125	PCB-167	32.9	-	J	
PCB-118	-	-	C106	106	PCB-168	ND	5.30		
PCB-119	147	-			PCB-169	ND	3.78		
PCB-120	14.7	-	J		PCB-170	43.2	-		
PCB-121	ND	4.40			PCB-171	31.2	-	J	
PCB-122	36.6	-	J		PCB-172	ND	10.3		
PCB-123	62.0	-			PCB-173	ND	11.0		
PCB-124	187	-			PCB-174	91.5	-		
PCB-125	-	-	C087	87/117	PCB-175	ND	9.25		
PCB-126	ND	6.51			PCB-176	36.4	-	J	
PCB-127	ND	8.06			PCB-177	45.2	-		
PCB-128	182	-	C	162	PCB-178	29.5	-	J	
PCB-129	105	-			PCB-179	104	-		
PCB-130	122	-			PCB-180	90.0	-		
PCB-131	111	-	C	133	PCB-181	ND	9.55		
PCB-132	807	-	C	161	PCB-182	129	-	C	187
PCB-133	-	-	C131	131	PCB-183	66.7	-		
PCB-134	246	-	C	143	PCB-184	ND	6.63		
PCB-135	524	-			PCB-185	15.1	-	J	
PCB-136	956	-			PCB-186	ND	7.36		
PCB-137	141	-			PCB-187	-	-	C182	182
PCB-138	1130	-	C	163/164	PCB-188	ND	5.89		
PCB-139	2540	-	C	149	PCB-189	ND	5.16		
PCB-140	20.3	-	J		PCB-190	ND	8.19		
PCB-141	300	-			PCB-191	ND	7.33		
PCB-142	ND	7.49			PCB-192	ND	8.40		
PCB-143	-	-	C134	134	PCB-193	ND	7.25		
PCB-144	237	-			PCB-194	ND	5.21		
PCB-145	ND	5.06			PCB-195	ND	5.96		
PCB-146	263	-	C	165	PCB-196	18.6	-	C,J	203
PCB-147	110	-			PCB-197	ND	6.57		
PCB-148	ND	6.50			PCB-198	ND	9.87		
PCB-149	-	-	C139	139	PCB-199	ND	9.50		
PCB-150	15.9	-	J		PCB-200	ND	6.32		

EPA Modified Method 1668
PCBs



FAL ID: 8158-008-SA
Client ID: HC20131102-A-8
Matrix: PUF
Batch No: X2965

Date Extracted: 11-06-2013
Date Received: 11-05-2013
Amount: 1.00 sample

ICal: DAILY209FAL4-11-8-13
GC Column: DB1
Units: pg/sample

Acquired: 11-08-2013


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Compound	Conc	DL	Qual	Coeluters
PCB-201	ND	6.20		
PCB-202	11.7	-	J	
PCB-203	-	-	C196,J	196
PCB-204	ND	6.37		
PCB-205	ND	3.13		
PCB-206	ND	6.25		
PCB-207	ND	6.10		
PCB-208	ND	4.44		
PCB-209	ND	4.06		

Internal Standards	% Rec	QC Limits	Qual
13C-PCB-1	91.4	5.00 - 145	
13C-PCB-3	91.1	5.00 - 145	
13C-PCB-4	88.2	5.00 - 145	
13C-PCB-15	93.6	5.00 - 145	
13C-PCB-19	89.2	5.00 - 145	
13C-PCB-37	103	5.00 - 145	
13C-PCB-54	88.9	5.00 - 145	
13C-PCB-77	98.9	10.0 - 145	
13C-PCB-81	96.7	10.0 - 145	
13C-PCB-104	91.1	10.0 - 145	
13C-PCB-105	102	10.0 - 145	
13C-PCB-114	99.7	10.0 - 145	
13C-PCB-118	92.8	10.0 - 145	
13C-PCB-123	103	10.0 - 145	
13C-PCB-126	99.3	10.0 - 145	
13C-PCB-155	88.5	10.0 - 145	
13C-PCB-156	94.8	10.0 - 145	
13C-PCB-157	94.0	10.0 - 145	
13C-PCB-167	97.1	10.0 - 145	
13C-PCB-169	98.7	10.0 - 145	
13C-PCB-188	90.0	10.0 - 145	
13C-PCB-189	95.4	10.0 - 145	
13C-PCB-202	87.5	10.0 - 145	
13C-PCB-205	96.1	10.0 - 145	
13C-PCB-206	96.2	10.0 - 145	
13C-PCB-208	95.2	10.0 - 145	
13C-PCB-209	92.7	10.0 - 145	

Pre-Spike Standards	% Rec	QC Limits	Qual
13C-PCB-28	99.9	5.00 - 145	
13C-PCB-111	90.8	10.0 - 145	
13C-PCB-178	88.4	10.0 - 145	

- A Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
- B Analyte is present in Method Blank
- C Coelution
- D Presence of Diphenyl Ethers
- DNQ Analyte concentration is below calibration range
- E Analyte concentration is above calibration range
- F Analyte confirmation on secondary column
- J Analyte concentration is below calibration range
- M Maximum possible concentration
- ND Analyte Not Detected at Detection Limit Level
- NP Not Provided
- P Pre-filtered through a Whatman 0.7um GF/F filter
- S Sample acceptance criteria not met
- X Matrix interferences
- * Result taken from dilution or reinjection

Analyst: 
Date: 11/13/2013

Reviewed By: 
Date: 11/13/2013

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EPA Modified Method 1668
PCBs



FAL ID: 8158-009-SA
Client ID: HC20131102-A-9
Matrix: PUF
Batch No: X2965

Date Extracted: 11-06-2013
Date Received: 11-05-2013
Amount: 1.00 sample

ICal: DAILY209FAL4-11-8-13
GC Column: DB1
Units: pg/sample

Acquired: 11-08-2013
Total Conc: 199000

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Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-1	728	-			PCB-51	163	-		
PCB-2	255	-			PCB-52	24500	-	C	69
PCB-3	470	-			PCB-53	985	-		
PCB-4	1280	-			PCB-54	ND	4.06		
PCB-5	92.6	-			PCB-55	92.0	-		
PCB-6	665	-			PCB-56	1040	-	C	60
PCB-7	212	-			PCB-57	14.2	-	J	
PCB-8	2970	-			PCB-58	ND	5.46		
PCB-9	228	-			PCB-59	-	-		
PCB-10	64.5	-			PCB-60	-	-	C042	42
PCB-11	32100	-	B		PCB-61	10100	-	C056	56
PCB-12	26.9	-	J		PCB-62	ND	5.98	C	70
PCB-13	124	-			PCB-63	148	-		
PCB-14	ND	7.50			PCB-64	-	-	C041	41/71/72
PCB-15	507	-			PCB-65	ND	5.28		
PCB-16	804	-			PCB-66	3140	-	C	76
PCB-17	1190	-			PCB-67	55.5	-		
PCB-18	3460	-			PCB-68	41.3	-		
PCB-19	230	-			PCB-69	-	-	C052	52
PCB-20	1520	-	C	21/33	PCB-70	-	-	C061	61
PCB-21	-	-	C020	20/33	PCB-71	-	-	C041	41/64/72
PCB-22	736	-			PCB-72	-	-	C041	41/64/71
PCB-23	ND	7.96			PCB-73	80.4	-		
PCB-24	25.7	-	J		PCB-74	1970	-		
PCB-25	174	-			PCB-75	-	-	C048	48
PCB-26	394	-			PCB-76	-	-	C066	66
PCB-27	196	-			PCB-77	66.6	-		
PCB-28	2100	-			PCB-78	32.8	-	J	
PCB-29	25.4	-	J		PCB-79	118	-		
PCB-30	ND	2.87			PCB-80	ND	4.42		
PCB-31	2760	-			PCB-81	176	-		
PCB-32	737	-			PCB-82	734	-		
PCB-33	-	-	C020	20/21	PCB-83	462	-	C	112
PCB-34	ND	7.44			PCB-84	6190	-	C	92
PCB-35	81.6	-			PCB-85	1170	-	C	116
PCB-36	10.7	-	J		PCB-86	25.6	-	J	
PCB-37	243	-			PCB-87	3850	-	C	117/125
PCB-38	18.1	-	J		PCB-88	2620	-	C	91
PCB-39	ND	7.35			PCB-89	98.8	-		
PCB-40	549	-			PCB-90	14400	-	C	101
PCB-41	3930	-	C	64/71/72	PCB-91	-	-	C088	88
PCB-42	797	-	C	59	PCB-92	-	-	C084	84
PCB-43	6040	-	C	49	PCB-93	ND	5.07		
PCB-44	8290	-			PCB-94	103	-		
PCB-45	436	-			PCB-95	16400	-		
PCB-46	163	-			PCB-96	169	-		
PCB-47	977	-			PCB-97	2910	-		
PCB-48	628	-	C	75	PCB-98	ND	4.80	C	102
PCB-49	-	-	C043	43	PCB-99	5140	-		
PCB-50	ND	6.83			PCB-100	53.8	-		

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EPA Modified Method 1668
PCBs



FAL ID: 8158-009-SA
Client ID: HC20131102-A-9
Matrix: PUF
Batch No: X2965

Date Extracted: 11-06-2013
Date Received: 11-05-2013
Amount: 1.00 sample

ICal: DAILY209FAL4-11-8-13
GC Column: DB1
Units: pg/sample

Acquired: 11-08-2013

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Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-101	-	-	C090	90	PCB-151	781	-	-	-
PCB-102	-	-	C098	98	PCB-152	16.4	-	J	-
PCB-103	131	-	-	-	PCB-153	1750	-	-	-
PCB-104	ND	2.85	-	-	PCB-154	55.3	-	-	-
PCB-105	960	-	-	-	PCB-155	10.9	-	J	-
PCB-106	4240	-	C	118	PCB-156	83.1	-	-	-
PCB-107	312	-	C	108	PCB-157	18.2	-	J	-
PCB-108	-	-	C107	107	PCB-158	245	-	C	160
PCB-109	ND	5.82	-	-	PCB-159	ND	3.68	-	-
PCB-110	5950	-	-	-	PCB-160	-	-	C158	158
PCB-111	243	-	C	115	PCB-161	-	-	C132	132
PCB-112	-	-	C083	83	PCB-162	-	-	C128	128
PCB-113	ND	5.62	-	-	PCB-163	-	-	C138	138/164
PCB-114	108	-	-	-	PCB-164	-	-	C138	138/163
PCB-115	-	-	C111	111	PCB-165	-	-	C146	146
PCB-116	-	-	C085	85	PCB-166	12.5	-	J	-
PCB-117	-	-	C087	87/125	PCB-167	43.4	-	-	-
PCB-118	-	-	C106	106	PCB-168	ND	4.01	-	-
PCB-119	154	-	-	-	PCB-169	ND	2.77	-	-
PCB-120	15.7	-	J	-	PCB-170	42.8	-	-	-
PCB-121	ND	4.01	-	-	PCB-171	29.7	-	J	-
PCB-122	39.2	-	J	-	PCB-172	16.1	-	J	-
PCB-123	73.5	-	-	-	PCB-173	ND	8.62	-	-
PCB-124	226	-	-	-	PCB-174	98.0	-	-	-
PCB-125	-	-	C087	87/117	PCB-175	ND	7.23	-	-
PCB-126	ND	6.54	-	-	PCB-176	36.8	-	J	-
PCB-127	ND	8.67	-	-	PCB-177	55.0	-	-	-
PCB-128	211	-	C	162	PCB-178	32.5	-	J	-
PCB-129	127	-	-	-	PCB-179	97.2	-	-	-
PCB-130	153	-	-	-	PCB-180	101	-	-	-
PCB-131	126	-	C	133	PCB-181	ND	7.46	-	-
PCB-132	941	-	C	161	PCB-182	138	-	C	187
PCB-133	-	-	C131	131	PCB-183	73.9	-	-	-
PCB-134	261	-	C	143	PCB-184	ND	5.18	-	-
PCB-135	576	-	-	-	PCB-185	15.7	-	J	-
PCB-136	1050	-	-	-	PCB-186	ND	5.75	-	-
PCB-137	177	-	-	-	PCB-187	-	-	C182	182
PCB-138	1440	-	C	163/164	PCB-188	ND	4.91	-	-
PCB-139	2890	-	C	149	PCB-189	ND	3.69	-	-
PCB-140	24.8	-	J	-	PCB-190	11.5	-	J	-
PCB-141	381	-	-	-	PCB-191	ND	5.73	-	-
PCB-142	ND	5.67	-	-	PCB-192	ND	6.57	-	-
PCB-143	-	-	C134	134	PCB-193	ND	5.67	-	-
PCB-144	256	-	-	-	PCB-194	ND	4.48	-	-
PCB-145	ND	7.73	-	-	PCB-195	ND	5.13	-	-
PCB-146	313	-	C	165	PCB-196	16.6	-	C,J	203
PCB-147	125	-	-	-	PCB-197	ND	4.86	-	-
PCB-148	ND	9.95	-	-	PCB-198	ND	7.31	-	-
PCB-149	-	-	C139	139	PCB-199	18.8	-	J	-
PCB-150	16.0	-	J	-	PCB-200	ND	4.68	-	-

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EPA Modified Method 1668
PCBs



FAL ID: 8158-009-SA
Client ID: HC20131102-A-9
Matrix: PUF
Batch No: X2965

Date Extracted: 11-06-2013
Date Received: 11-05-2013
Amount: 1.00 sample

ICal: DAILY209FAL4-11-8-13
GC Column: DB1
Units: pg/sample

Acquired: 11-08-2013


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Compound	Conc	DL	Qual	Coeluters
PCB-201	ND	4.59		
PCB-202	10.5	-	J	
PCB-203	-	-	C196,J	196
PCB-204	ND	4.72		
PCB-205	ND	2.69		
PCB-206	ND	7.45		
PCB-207	ND	7.19		
PCB-208	ND	5.19		
PCB-209	ND	3.70		

Internal Standards	% Rec	QC Limits	Qual
13C-PCB-1	97.2	5.00 - 145	
13C-PCB-3	96.0	5.00 - 145	
13C-PCB-4	93.3	5.00 - 145	
13C-PCB-15	97.2	5.00 - 145	
13C-PCB-19	92.0	5.00 - 145	
13C-PCB-37	109	5.00 - 145	
13C-PCB-54	89.4	5.00 - 145	
13C-PCB-77	106	10.0 - 145	
13C-PCB-81	104	10.0 - 145	
13C-PCB-104	93.1	10.0 - 145	
13C-PCB-105	107	10.0 - 145	
13C-PCB-114	97.8	10.0 - 145	
13C-PCB-118	99.1	10.0 - 145	
13C-PCB-123	108	10.0 - 145	
13C-PCB-126	109	10.0 - 145	
13C-PCB-155	93.7	10.0 - 145	
13C-PCB-156	103	10.0 - 145	
13C-PCB-157	103	10.0 - 145	
13C-PCB-167	102	10.0 - 145	
13C-PCB-169	109	10.0 - 145	
13C-PCB-188	90.4	10.0 - 145	
13C-PCB-189	103	10.0 - 145	
13C-PCB-202	90.5	10.0 - 145	
13C-PCB-205	98.2	10.0 - 145	
13C-PCB-206	95.4	10.0 - 145	
13C-PCB-208	95.2	10.0 - 145	
13C-PCB-209	90.6	10.0 - 145	

Pre-Spike Standards	% Rec	QC Limits	Qual
13C-PCB-28	103	5.00 - 145	
13C-PCB-111	97.3	10.0 - 145	
13C-PCB-178	91.6	10.0 - 145	

- A Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
- B Analyte is present in Method Blank
- C Coelution
- D Presence of Diphenyl Ethers
- DNQ Analyte concentration is below calibration range
- E Analyte concentration is above calibration range
- F Analyte confirmation on secondary column
- J Analyte concentration is below calibration range
- M Maximum possible concentration
- ND Analyte Not Detected at Detection Limit Level
- NP Not Provided
- P Pre-filtered through a Whatman 0.7um GF/F filter
- S Sample acceptance criteria not met
- X Matrix interferences
- * Result taken from dilution or reinjection

Analyst: 
Date: 11/13/2013

Reviewed By: 
Date: 11/13/2013

EPA Modified Method 1668
PCBs



FAL ID: 8158-010-SA
Client ID: HC20131102-A-10
Matrix: PUF
Batch No: X2965

Date Extracted: 11-06-2013
Date Received: 11-05-2013
Amount: 1.00 sample

ICal: DAILY209FAL4-11-8-13
GC Column: DB1
Units: pg/sample

Acquired: 11-08-2013
Total Conc: 128000

Page 1 of 3

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-1	387	-			PCB-51	112	-		
PCB-2	150	-			PCB-52	13400	-	C	69
PCB-3	248	-			PCB-53	544	-		
PCB-4	994	-			PCB-54	ND	3.34		
PCB-5	67.2	-			PCB-55	48.3	-		
PCB-6	451	-			PCB-56	676	-	C	60
PCB-7	149	-			PCB-57	ND	4.30		
PCB-8	2170	-			PCB-58	ND	4.48		
PCB-9	174	-			PCB-59	-	-	C042	42
PCB-10	64.7	-			PCB-60	-	-	C056	56
PCB-11	26000	-	B		PCB-61	5840	-	C	70
PCB-12	24.6	-	J		PCB-62	ND	4.90		
PCB-13	89.0	-			PCB-63	80.9	-		
PCB-14	ND	8.58			PCB-64	-	-	C041	41/71/72
PCB-15	443	-			PCB-65	ND	4.33		
PCB-16	468	-			PCB-66	1800	-	C	76
PCB-17	814	-			PCB-67	33.0	-	J	
PCB-18	2250	-			PCB-68	37.4	-	J	
PCB-19	161	-			PCB-69	-	-	C052	52
PCB-20	1030	-	C	21/33	PCB-70	-	-	C061	61
PCB-21	-	-	C020	20/33	PCB-71	-	-	C041	41/64/72
PCB-22	502	-			PCB-72	-	-	C041	41/64/71
PCB-23	ND	6.36			PCB-73	15.3	-	J	
PCB-24	30.2	-	J		PCB-74	1090	-		
PCB-25	127	-			PCB-75	-	-	C048	48
PCB-26	270	-			PCB-76	-	-	C066	66
PCB-27	128	-			PCB-77	73.6	-		
PCB-28	1400	-			PCB-78	23.1	-	J	
PCB-29	22.4	-	J		PCB-79	79.3	-		
PCB-30	ND	3.17			PCB-80	ND	3.63		
PCB-31	1470	-			PCB-81	114	-		
PCB-32	591	-			PCB-82	537	-		
PCB-33	-	-	C020	20/21	PCB-83	285	-	C	112
PCB-34	ND	5.94			PCB-84	3830	-	C	92
PCB-35	111	-			PCB-85	757	-	C	116
PCB-36	15.6	-	J		PCB-86	14.3	-	J	
PCB-37	184	-			PCB-87	2500	-	C	117/125
PCB-38	13.7	-	J		PCB-88	1600	-	C	91
PCB-39	ND	5.88			PCB-89	63.6	-		
PCB-40	305	-			PCB-90	9040	-	C	101
PCB-41	2170	-	C	64/71/72	PCB-91	-	-	C088	88
PCB-42	459	-	C	59	PCB-92	-	-	C084	84
PCB-43	3240	-	C	49	PCB-93	ND	4.52		
PCB-44	4500	-			PCB-94	61.0	-		
PCB-45	258	-			PCB-95	9800	-		
PCB-46	109	-			PCB-96	97.9	-		
PCB-47	610	-			PCB-97	1930	-		
PCB-48	352	-	C	75	PCB-98	ND	4.28	C	102
PCB-49	-	-	C043	43	PCB-99	3240	-		
PCB-50	ND	5.60			PCB-100	32.6	-	J	

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EPA Modified Method 1668
PCBs



FAL ID: 8158-010-SA
Client ID: HC20131102-A-10
Matrix: PUF
Batch No: X2965

Date Extracted: 11-06-2013
Date Received: 11-05-2013
Amount: 1.00 sample

ICal: DAILY209FAL4-11-8-13
GC Column: DB1
Units: pg/sample

Acquired: 11-08-2013

Page 2 of 3

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-101	-	-	C090	90	PCB-151	511	-		
PCB-102	-	-	C098	98	PCB-152	12.6	-	J	
PCB-103	83.0	-			PCB-153	1250	-		
PCB-104	ND	2.54			PCB-154	36.0	-	J	
PCB-105	751	-			PCB-155	10.0	-	J	
PCB-106	2980	-	C	118	PCB-156	76.0	-		
PCB-107	220	-	C	108	PCB-157	19.8	-	J	
PCB-108	-	-	C107	107	PCB-158	183	-	C	160
PCB-109	ND	8.48			PCB-159	ND	3.49		
PCB-110	4070	-			PCB-160	-	-	C158	158
PCB-111	160	-	C	115	PCB-161	-	-	C132	132
PCB-112	-	-	C083	83	PCB-162	-	-	C128	128
PCB-113	ND	8.18			PCB-163	-	-	C138	138/164
PCB-114	83.3	-			PCB-164	-	-	C138	138/163
PCB-115	-	-	C111	111	PCB-165	-	-	C146	146
PCB-116	-	-	C085	85	PCB-166	11.3	-	J	
PCB-117	-	-	C087	87/125	PCB-167	37.1	-	J	
PCB-118	-	-	C106	106	PCB-168	ND	3.80		
PCB-119	90.8	-			PCB-169	ND	3.20		
PCB-120	10.6	-	J		PCB-170	38.1	-	J	
PCB-121	ND	3.57			PCB-171	24.9	-	J	
PCB-122	30.0	-	J		PCB-172	14.4	-	J	
PCB-123	49.5	-			PCB-173	ND	6.43		
PCB-124	162	-			PCB-174	70.7	-		
PCB-125	-	-	C087	87/117	PCB-175	ND	5.39		
PCB-126	ND	6.18			PCB-176	24.3	-	J	
PCB-127	ND	8.18			PCB-177	40.7	-		
PCB-128	177	-	C	162	PCB-178	24.8	-	J	
PCB-129	97.2	-			PCB-179	62.9	-		
PCB-130	125	-			PCB-180	72.5	-		
PCB-131	90.1	-	C	133	PCB-181	ND	5.57		
PCB-132	648	-	C	161	PCB-182	93.0	-	C	187
PCB-133	-	-	C131	131	PCB-183	50.8	-		
PCB-134	185	-	C	143	PCB-184	ND	3.87		
PCB-135	401	-			PCB-185	14.3	-	J	
PCB-136	664	-			PCB-186	ND	4.29		
PCB-137	119	-			PCB-187	-	-	C182	182
PCB-138	1070	-	C	163/164	PCB-188	ND	3.09		
PCB-139	1970	-	C	149	PCB-189	ND	3.42		
PCB-140	18.0	-	J		PCB-190	ND	4.78		
PCB-141	277	-			PCB-191	ND	4.27		
PCB-142	ND	5.37			PCB-192	ND	4.90		
PCB-143	-	-	C134	134	PCB-193	ND	4.23		
PCB-144	176	-			PCB-194	ND	3.82		
PCB-145	ND	4.05			PCB-195	ND	4.37		
PCB-146	224	-	C	165	PCB-196	ND	8.42	C	203
PCB-147	84.5	-			PCB-197	ND	6.42		
PCB-148	ND	5.20			PCB-198	ND	9.66		
PCB-149	-	-	C139	139	PCB-199	ND	9.29		
PCB-150	12.2	-	J		PCB-200	ND	6.18		

EPA Modified Method 1668 PCBs



FAL ID: 8158-010-SA
Client ID: HC20131102-A-10
Matrix: PUF
Batch No: X2965

Date Extracted: 11-06-2013
Date Received: 11-05-2013
Amount: 1.00 sample

ICal: DAILY209FAL4-11-8-13
GC Column: DB1
Units: pg/sample

Acquired: 11-08-2013


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Compound	Conc	DL	Qual	Coeluters
PCB-201	ND	6.06		
PCB-202	ND	4.84		
PCB-203	-	-	C196	196
PCB-204	ND	6.24		
PCB-205	ND	2.29		
PCB-206	ND	4.75		
PCB-207	ND	4.61		
PCB-208	ND	3.35		
PCB-209	ND	4.57		

Internal Standards	% Rec	QC Limits	Qual
13C-PCB-1	87.5	5.00 - 145	
13C-PCB-3	87.4	5.00 - 145	
13C-PCB-4	84.8	5.00 - 145	
13C-PCB-15	93.7	5.00 - 145	
13C-PCB-19	87.0	5.00 - 145	
13C-PCB-37	102	5.00 - 145	
13C-PCB-54	87.9	5.00 - 145	
13C-PCB-77	99.4	10.0 - 145	
13C-PCB-81	99.4	10.0 - 145	
13C-PCB-104	87.8	10.0 - 145	
13C-PCB-105	104	10.0 - 145	
13C-PCB-114	103	10.0 - 145	
13C-PCB-118	98.6	10.0 - 145	
13C-PCB-123	108	10.0 - 145	
13C-PCB-126	106	10.0 - 145	
13C-PCB-155	90.2	10.0 - 145	
13C-PCB-156	102	10.0 - 145	
13C-PCB-157	100	10.0 - 145	
13C-PCB-167	103	10.0 - 145	
13C-PCB-169	107	10.0 - 145	
13C-PCB-188	92.2	10.0 - 145	
13C-PCB-189	103	10.0 - 145	
13C-PCB-202	91.6	10.0 - 145	
13C-PCB-205	94.9	10.0 - 145	
13C-PCB-206	90.7	10.0 - 145	
13C-PCB-208	91.1	10.0 - 145	
13C-PCB-209	85.6	10.0 - 145	

Pre-Spike Standards	% Rec	QC Limits	Qual
13C-PCB-28	89.2	5.00 - 145	
13C-PCB-111	93.9	10.0 - 145	
13C-PCB-178	94.4	10.0 - 145	

A	Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
B	Analyte is present in Method Blank
C	Coelution
D	Presence of Diphenyl Ethers
DNQ	Analyte concentration is below calibration range
E	Analyte concentration is above calibration range
F	Analyte confirmation on secondary column
J	Analyte concentration is below calibration range
M	Maximum possible concentration
ND	Analyte Not Detected at Detection Limit Level
NP	Not Provided
P	Pre-filtered through a Whatman 0.7um GF/F filter
S	Sample acceptance criteria not met
X	Matrix interferences
*	Result taken from dilution or reinjection

Analyst: 
Date: 11/13/2013

Reviewed By: 
Date: 11/13/2013

EPA Modified Method 1668
PCBs



FAL ID: 8158-011-SA
Client ID: HC20131102-A-11
Matrix: PUF
Batch No: X2965

Date Extracted: 11-06-2013
Date Received: 11-05-2013
Amount: 1.00 sample

ICal: DAILY209FAL4-11-7-13
GC Column: DB1
Units: pg/sample

Acquired: 11-07-2013
Total Conc: 30.4

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Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-1	ND	2.04			PCB-51	ND	6.82		
PCB-2	ND	2.77			PCB-52	ND	5.94	C	69
PCB-3	ND	2.24			PCB-53	ND	6.99		
PCB-4	ND	7.89			PCB-54	ND	3.82		
PCB-5	ND	7.31			PCB-55	ND	5.14		
PCB-6	ND	6.29			PCB-56	ND	3.41	C	60
PCB-7	ND	7.88			PCB-57	ND	4.94		
PCB-8	ND	7.80			PCB-58	ND	5.55		
PCB-9	ND	6.65			PCB-59	-	-	C042	42
PCB-10	ND	7.06			PCB-60	-	-	C056	56
PCB-11	30.4	-	B,J		PCB-61	ND	5.34	C	70
PCB-12	ND	7.80			PCB-62	ND	5.01		
PCB-13	ND	7.73			PCB-63	ND	4.92		
PCB-14	ND	7.22			PCB-64	-	-	C041	41/71/72
PCB-15	ND	5.99			PCB-65	ND	5.67		
PCB-16	ND	4.84			PCB-66	ND	4.71	C	76
PCB-17	ND	5.73			PCB-67	ND	4.85		
PCB-18	ND	6.74			PCB-68	ND	4.68		
PCB-19	ND	4.79			PCB-69	-	-	C052	52
PCB-20	ND	6.38	C	21/33	PCB-70	-	-	C061	61
PCB-21	-	-	C020	20/33	PCB-71	-	-	C041	41/64/72
PCB-22	ND	6.57			PCB-72	-	-	C041	41/64/71
PCB-23	ND	6.62			PCB-73	ND	4.84		
PCB-24	ND	4.33			PCB-74	ND	3.72		
PCB-25	ND	6.15			PCB-75	-	-	C048	48
PCB-26	ND	6.66			PCB-76	-	-	C066	66
PCB-27	ND	4.28			PCB-77	ND	3.04		
PCB-28	ND	6.04			PCB-78	ND	3.54		
PCB-29	ND	6.52			PCB-79	ND	3.55		
PCB-30	ND	4.17			PCB-80	ND	4.19		
PCB-31	ND	6.57			PCB-81	ND	3.22		
PCB-32	ND	4.35			PCB-82	ND	9.68		
PCB-33	-	-	C020	20/21	PCB-83	ND	6.95	C	112
PCB-34	ND	7.98			PCB-84	ND	7.86	C	92
PCB-35	ND	6.93			PCB-85	ND	6.48	C	116
PCB-36	ND	6.54			PCB-86	ND	7.07		
PCB-37	ND	5.09			PCB-87	ND	5.85	C	117/125
PCB-38	ND	6.41			PCB-88	ND	6.70	C	91
PCB-39	ND	6.90			PCB-89	ND	8.11		
PCB-40	ND	8.77			PCB-90	ND	7.09	C	101
PCB-41	ND	5.21	C	64/71/72	PCB-91	-	-	C088	88
PCB-42	ND	5.66	C	59	PCB-92	-	-	C084	84
PCB-43	ND	5.49	C	49	PCB-93	ND	5.97		
PCB-44	ND	5.98			PCB-94	ND	7.40		
PCB-45	ND	7.49			PCB-95	ND	5.56		
PCB-46	ND	7.85			PCB-96	ND	4.59		
PCB-47	ND	5.87			PCB-97	ND	7.71		
PCB-48	ND	5.40	C	75	PCB-98	ND	5.84	C	102
PCB-49	-	-	C043	43	PCB-99	ND	6.01		
PCB-50	ND	6.38			PCB-100	ND	6.14		

EPA Modified Method 1668
PCBs



FAL ID: 8158-011-SA
Client ID: HC20131102-A-11
Matrix: PUF
Batch No: X2965

Date Extracted: 11-06-2013
Date Received: 11-05-2013
Amount: 1.00 sample

ICal: DAILY209FAL4-11-7-13
GC Column: DB1
Units: pg/sample

Acquired: 11-07-2013

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Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-101	-	-	C090	90	PCB-151	ND	7.20		
PCB-102	-	-	C098	98	PCB-152	ND	3.48		
PCB-103	ND	5.64			PCB-153	ND	5.16		
PCB-104	ND	3.31			PCB-154	ND	4.10		
PCB-105	ND	6.23			PCB-155	ND	2.46		
PCB-106	ND	6.78	C	118	PCB-156	ND	5.78		
PCB-107	ND	6.72	C	108	PCB-157	ND	6.01		
PCB-108	-	-	C107	107	PCB-158	ND	5.11	C	160
PCB-109	ND	6.12			PCB-159	ND	5.05		
PCB-110	ND	4.11			PCB-160	-	-	C158	158
PCB-111	ND	5.29	C	115	PCB-161	-	-	C132	132
PCB-112	-	-	C083	83	PCB-162	-	-	C128	128
PCB-113	ND	6.75			PCB-163	-	-	C138	138/164
PCB-114	ND	7.40			PCB-164	-	-	C138	138/163
PCB-115	-	-	C111	111	PCB-165	-	-	C146	146
PCB-116	-	-	C085	85	PCB-166	ND	5.21		
PCB-117	-	-	C087	87/125	PCB-167	ND	5.30		
PCB-118	-	-	C106	106	PCB-168	ND	5.38		
PCB-119	ND	5.49			PCB-169	ND	4.58		
PCB-120	ND	5.15			PCB-170	ND	4.99		
PCB-121	ND	4.91			PCB-171	ND	3.98		
PCB-122	ND	6.58			PCB-172	ND	4.39		
PCB-123	ND	7.79			PCB-173	ND	4.60		
PCB-124	ND	7.94			PCB-174	ND	3.95		
PCB-125	-	-	C087	87/117	PCB-175	ND	4.17		
PCB-126	ND	5.71			PCB-176	ND	2.79		
PCB-127	ND	7.22			PCB-177	ND	4.37		
PCB-128	ND	6.72	C	162	PCB-178	ND	4.04		
PCB-129	ND	7.82			PCB-179	ND	2.70		
PCB-130	ND	7.13			PCB-180	ND	3.86		
PCB-131	ND	7.16	C	133	PCB-181	ND	4.15		
PCB-132	ND	6.11	C	161	PCB-182	ND	3.58	C	187
PCB-133	-	-	C131	131	PCB-183	ND	3.65		
PCB-134	ND	7.19	C	143	PCB-184	ND	2.73		
PCB-135	ND	8.42			PCB-185	ND	4.17		
PCB-136	ND	3.85			PCB-186	ND	3.00		
PCB-137	ND	8.05			PCB-187	-	-	C182	182
PCB-138	ND	4.84	C	163/164	PCB-188	ND	2.36		
PCB-139	ND	6.46	C	149	PCB-189	ND	2.35		
PCB-140	ND	6.15			PCB-190	ND	3.48		
PCB-141	ND	6.75			PCB-191	ND	3.22		
PCB-142	ND	7.47			PCB-192	ND	3.50		
PCB-143	-	-	C134	134	PCB-193	ND	3.10		
PCB-144	ND	5.87			PCB-194	ND	4.05		
PCB-145	ND	3.67			PCB-195	ND	4.46		
PCB-146	ND	5.71	C	165	PCB-196	ND	5.23	C	203
PCB-147	ND	6.54			PCB-197	ND	3.89		
PCB-148	ND	4.23			PCB-198	ND	5.74		
PCB-149	-	-	C139	139	PCB-199	ND	6.13		
PCB-150	ND	3.68			PCB-200	ND	3.75		

EPA Modified Method 1668
PCBs



FAL ID: 8158-011-SA
Client ID: HC20131102-A-11
Matrix: PUF
Batch No: X2965

Date Extracted: 11-06-2013
Date Received: 11-05-2013
Amount: 1.00 sample

ICal: DAILY209FAL4-11-7-13
GC Column: DB1
Units: pg/sample

Acquired: 11-07-2013


Page 3 of 3


Compound	Conc	DL	Qual	Coeluters
PCB-201	ND	3.86		
PCB-202	ND	2.97		
PCB-203	-	-	C196	196
PCB-204	ND	3.64		
PCB-205	ND	2.36		
PCB-206	ND	3.46		
PCB-207	ND	3.71		
PCB-208	ND	2.83		
PCB-209	ND	3.07		

Internal Standards	% Rec	QC Limits	Qual
13C-PCB-1	84.1	5.00 - 145	
13C-PCB-3	82.4	5.00 - 145	
13C-PCB-4	93.6	5.00 - 145	
13C-PCB-15	97.2	5.00 - 145	
13C-PCB-19	89.7	5.00 - 145	
13C-PCB-37	105	5.00 - 145	
13C-PCB-54	108	5.00 - 145	
13C-PCB-77	104	10.0 - 145	
13C-PCB-81	104	10.0 - 145	
13C-PCB-104	101	10.0 - 145	
13C-PCB-105	105	10.0 - 145	
13C-PCB-114	103	10.0 - 145	
13C-PCB-118	104	10.0 - 145	
13C-PCB-123	102	10.0 - 145	
13C-PCB-126	110	10.0 - 145	
13C-PCB-155	95.7	10.0 - 145	
13C-PCB-156	105	10.0 - 145	
13C-PCB-157	108	10.0 - 145	
13C-PCB-167	109	10.0 - 145	
13C-PCB-169	114	10.0 - 145	
13C-PCB-188	105	10.0 - 145	
13C-PCB-189	112	10.0 - 145	
13C-PCB-202	101	10.0 - 145	
13C-PCB-205	105	10.0 - 145	
13C-PCB-206	102	10.0 - 145	
13C-PCB-208	94.7	10.0 - 145	
13C-PCB-209	97.2	10.0 - 145	

Pre-Spike Standards	% Rec	QC Limits	Qual
13C-PCB-28	112	5.00 - 145	
13C-PCB-111	94.2	10.0 - 145	
13C-PCB-178	99.1	10.0 - 145	

- A Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
- B Analyte is present in Method Blank
- C Coelution
- D Presence of Diphenyl Ethers
- DNQ Analyte concentration is below calibration range
- E Analyte concentration is above calibration range
- F Analyte confirmation on secondary column
- J Analyte concentration is below calibration range
- M Maximum possible concentration
- ND Analyte Not Detected at Detection Limit Level
- NP Not Provided
- P Pre-filtered through a Whatman 0.7um GF/F filter
- S Sample acceptance criteria not met
- X Matrix interferences
- * Result taken from dilution or reinjection

Analyst: 
Date: 11/13/2013

Reviewed By: 
Date: 11/13/2013

EPA Modified Method 1668
PCBs



FAL ID: 8158-012-SA
Client ID: HC20131102-A-12
Matrix: PUF
Batch No: X2965

Date Extracted: 11-06-2013
Date Received: 11-05-2013
Amount: 1.00 sample

ICal: DAILY209FAL4-11-7-13
GC Column: DB1
Units: pg/sample

Acquired: 11-07-2013
Total Conc: 19.4

Page 1 of 3

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-1	ND	1.94			PCB-51	ND	5.14		
PCB-2	ND	2.56			PCB-52	ND	4.47	C	69
PCB-3	ND	2.02			PCB-53	ND	5.26		
PCB-4	ND	8.12			PCB-54	ND	2.88		
PCB-5	ND	7.35			PCB-55	ND	3.87		
PCB-6	ND	6.32			PCB-56	ND	4.30	C	60
PCB-7	ND	7.93			PCB-57	ND	3.72		
PCB-8	ND	7.85			PCB-58	ND	4.18		
PCB-9	ND	6.69			PCB-59	-	-	C042	42
PCB-10	ND	7.10			PCB-60	-	-	C056	56
PCB-11	19.4	-	B,J		PCB-61	ND	4.02	C	70
PCB-12	ND	7.85			PCB-62	ND	3.77		
PCB-13	ND	7.77			PCB-63	ND	3.70		
PCB-14	ND	7.26			PCB-64	-	-	C041	41/71/72
PCB-15	ND	5.92			PCB-65	ND	4.27		
PCB-16	ND	5.10			PCB-66	ND	3.54	C	76
PCB-17	ND	6.02			PCB-67	ND	3.65		
PCB-18	ND	7.09			PCB-68	ND	3.52		
PCB-19	ND	5.04			PCB-69	-	-	C052	52
PCB-20	ND	4.56	C	21/33	PCB-70	-	-	C061	61
PCB-21	-	-	C020	20/33	PCB-71	-	-	C041	41/64/72
PCB-22	ND	4.70			PCB-72	-	-	C041	41/64/71
PCB-23	ND	4.74			PCB-73	ND	3.65		
PCB-24	ND	4.55			PCB-74	ND	2.80		
PCB-25	ND	4.40			PCB-75	-	-	C048	48
PCB-26	ND	4.76			PCB-76	-	-	C066	66
PCB-27	ND	4.51			PCB-77	ND	3.97		
PCB-28	ND	4.32			PCB-78	ND	4.46		
PCB-29	ND	4.66			PCB-79	ND	4.48		
PCB-30	ND	4.38			PCB-80	ND	3.16		
PCB-31	ND	4.70			PCB-81	ND	3.90		
PCB-32	ND	4.57			PCB-82	ND	9.02		
PCB-33	-	-	C020	20/21	PCB-83	ND	6.47	C	112
PCB-34	ND	5.69			PCB-84	ND	7.33	C	92
PCB-35	ND	4.96			PCB-85	ND	6.04	C	116
PCB-36	ND	4.68			PCB-86	ND	6.59		
PCB-37	ND	3.64			PCB-87	ND	5.46	C	117/125
PCB-38	ND	4.58			PCB-88	ND	7.58	C	91
PCB-39	ND	4.93			PCB-89	ND	7.56		
PCB-40	ND	6.60			PCB-90	ND	6.61	C	101
PCB-41	ND	3.92	C	64/71/72	PCB-91	-	-	C088	88
PCB-42	ND	4.26	C	59	PCB-92	-	-	C084	84
PCB-43	ND	4.13	C	49	PCB-93	ND	6.75		
PCB-44	ND	4.50			PCB-94	ND	8.37		
PCB-45	ND	5.64			PCB-95	ND	6.29		
PCB-46	ND	5.91			PCB-96	ND	5.19		
PCB-47	ND	4.42			PCB-97	ND	7.19		
PCB-48	ND	4.07	C	75	PCB-98	ND	6.60	C	102
PCB-49	-	-	C043	43	PCB-99	ND	5.60		
PCB-50	ND	4.80			PCB-100	ND	6.94		

EPA Modified Method 1668
PCBs



FAL ID: 8158-012-SA
Client ID: HC20131102-A-12
Matrix: PUF
Batch No: X2965

Date Extracted: 11-06-2013
Date Received: 11-05-2013
Amount: 1.00 sample

ICal: DAILY209FAL4-11-7-13
GC Column: DB1
Units: pg/sample

Acquired: 11-07-2013

Page 2 of 3

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-101	-	-	C090	90	PCB-151	ND	7.81		
PCB-102	-	-	C098	98	PCB-152	ND	3.66		
PCB-103	ND	6.37			PCB-153	ND	5.59		
PCB-104	ND	3.74			PCB-154	ND	4.31		
PCB-105	ND	6.73			PCB-155	ND	2.58		
PCB-106	ND	7.24	C	118	PCB-156	ND	6.31		
PCB-107	ND	6.51	C	108	PCB-157	ND	6.80		
PCB-108	-	-	C107	107	PCB-158	ND	5.54	C	160
PCB-109	ND	5.71			PCB-159	ND	5.48		
PCB-110	ND	3.83			PCB-160	-	-	C158	158
PCB-111	ND	4.93	C	115	PCB-161	-	-	C132	132
PCB-112	-	-	C083	83	PCB-162	-	-	C128	128
PCB-113	ND	6.29			PCB-163	-	-	C138	138/164
PCB-114	ND	6.69			PCB-164	-	-	C138	138/163
PCB-115	-	-	C111	111	PCB-165	-	-	C146	146
PCB-116	-	-	C085	85	PCB-166	ND	5.65		
PCB-117	-	-	C087	87/125	PCB-167	ND	5.86		
PCB-118	-	-	C106	106	PCB-168	ND	5.83		
PCB-119	ND	5.12			PCB-169	ND	4.62		
PCB-120	ND	4.80			PCB-170	ND	7.42		
PCB-121	ND	5.55			PCB-171	ND	5.92		
PCB-122	ND	6.37			PCB-172	ND	6.54		
PCB-123	ND	6.49			PCB-173	ND	6.85		
PCB-124	ND	7.68			PCB-174	ND	5.88		
PCB-125	-	-	C087	87/117	PCB-175	ND	6.20		
PCB-126	ND	5.84			PCB-176	ND	4.16		
PCB-127	ND	6.99			PCB-177	ND	6.51		
PCB-128	ND	7.28	C	162	PCB-178	ND	6.01		
PCB-129	ND	8.48			PCB-179	ND	4.02		
PCB-130	ND	7.73			PCB-180	ND	5.75		
PCB-131	ND	7.77	C	133	PCB-181	ND	6.17		
PCB-132	ND	6.63	C	161	PCB-182	ND	5.32	C	187
PCB-133	-	-	C131	131	PCB-183	ND	5.44		
PCB-134	ND	7.80	C	143	PCB-184	ND	4.07		
PCB-135	ND	9.14			PCB-185	ND	6.21		
PCB-136	ND	4.04			PCB-186	ND	4.46		
PCB-137	ND	8.73			PCB-187	-	-	C182	182
PCB-138	ND	5.24	C	163/164	PCB-188	ND	3.55		
PCB-139	ND	7.01	C	149	PCB-189	ND	3.46		
PCB-140	ND	6.67			PCB-190	ND	5.17		
PCB-141	ND	7.32			PCB-191	ND	4.79		
PCB-142	ND	8.11			PCB-192	ND	5.21		
PCB-143	-	-	C134	134	PCB-193	ND	4.61		
PCB-144	ND	6.37			PCB-194	ND	5.53		
PCB-145	ND	3.85			PCB-195	ND	6.09		
PCB-146	ND	6.19	C	165	PCB-196	ND	7.09	C	203
PCB-147	ND	7.10			PCB-197	ND	5.27		
PCB-148	ND	4.44			PCB-198	ND	7.77		
PCB-149	-	-	C139	139	PCB-199	ND	8.31		
PCB-150	ND	3.86			PCB-200	ND	5.09		

EPA Modified Method 1668
PCBs



FAL ID: 8158-012-SA
Client ID: HC20131102-A-12
Matrix: PUF
Batch No: X2965

Date Extracted: 11-06-2013
Date Received: 11-05-2013
Amount: 1.00 sample

ICal: DAILY209FAL4-11-7-13
GC Column: DB1
Units: pg/sample

Acquired: 11-07-2013


Page 3 of 3


Compound	Conc	DL	Qual	Coeluters
PCB-201	ND	5.23		
PCB-202	ND	4.03		
PCB-203	-	-	C196	196
PCB-204	ND	4.93		
PCB-205	ND	3.22		
PCB-206	ND	4.27		
PCB-207	ND	4.39		
PCB-208	ND	3.21		
PCB-209	ND	4.48		

Internal Standards	% Rec	QC Limits	Qual
13C-PCB-1	83.6	5.00 - 145	
13C-PCB-3	85.6	5.00 - 145	
13C-PCB-4	91.4	5.00 - 145	
13C-PCB-15	94.1	5.00 - 145	
13C-PCB-19	86.8	5.00 - 145	
13C-PCB-37	101	5.00 - 145	
13C-PCB-54	98.0	5.00 - 145	
13C-PCB-77	96.9	10.0 - 145	
13C-PCB-81	98.8	10.0 - 145	
13C-PCB-104	90.6	10.0 - 145	
13C-PCB-105	95.4	10.0 - 145	
13C-PCB-114	102	10.0 - 145	
13C-PCB-118	97.2	10.0 - 145	
13C-PCB-123	102	10.0 - 145	
13C-PCB-126	101	10.0 - 145	
13C-PCB-155	92.2	10.0 - 145	
13C-PCB-156	96.6	10.0 - 145	
13C-PCB-157	98.2	10.0 - 145	
13C-PCB-167	101	10.0 - 145	
13C-PCB-169	105	10.0 - 145	
13C-PCB-188	94.9	10.0 - 145	
13C-PCB-189	103	10.0 - 145	
13C-PCB-202	92.4	10.0 - 145	
13C-PCB-205	89.5	10.0 - 145	
13C-PCB-206	87.3	10.0 - 145	
13C-PCB-208	84.0	10.0 - 145	
13C-PCB-209	85.3	10.0 - 145	

Pre-Spike Standards	% Rec	QC Limits	Qual
13C-PCB-28	107	5.00 - 145	
13C-PCB-111	90.1	10.0 - 145	
13C-PCB-178	93.9	10.0 - 145	

- A Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
- B Analyte is present in Method Blank
- C Coelution
- D Presence of Diphenyl Ethers
- DNQ Analyte concentration is below calibration range
- E Analyte concentration is above calibration range
- F Analyte confirmation on secondary column
- J Analyte concentration is below calibration range
- M Maximum possible concentration
- ND Analyte Not Detected at Detection Limit Level
- NP Not Provided
- P Pre-filtered through a Whatman 0.7um GF/F filter
- S Sample acceptance criteria not met
- X Matrix interferences
- * Result taken from dilution or reinjection

Analyst: 
Date: 11/13/2013

Reviewed By: 
Date: 11/13/2013



Frontier Analytical Laboratory
5172 Hillsdale Circle
El Dorado Hills, CA 95762
Tel: 916-934-0900
Fax: 916-934-0999

FAL USE ONLY

Laboratory Project No.: 8158
Temperature: 0 °C

Chain of Custody

www.frontieranalytical.com

Please Print in Pen Page 1 of 1

CLIENT INFORMATION				INVOICE INFORMATION (if different from client info)				PROJECT INFORMATION									
Company Name: <u>Phylmar Group</u>				Company Name: <u>Same</u>				FAL Quote #: <u>2711A</u>									
Contact Name: <u>Mark Katchen</u>				Contact Name: _____				P.O. #: _____									
Address: <u>2342 Manning Ave., Los Angeles, CA 90064</u>				Address: _____				Project #: <u>365-001A</u>									
Phone: <u>310-474-3937</u> Fax: _____				Phone: _____ Fax: _____				Project Name: <u>MHS (Cabrillo) Monitoring</u>									
Email: <u>mkatchen@phylmar.com</u>				Email: _____				TAT (business days): <input type="checkbox"/> 15 <input checked="" type="checkbox"/> 10 <input type="checkbox"/> 5* <input type="checkbox"/> 3* (✓ one)									
								* FAL must agree with price and RUSH TAT in writing.									
REPORT INFORMATION				REPORT DISTRIBUTION (email only is preferred)				ADDITIONAL INSTRUCTIONS									
Report Level: <input type="checkbox"/> I/II <input type="checkbox"/> III <input type="checkbox"/> IV				<input type="checkbox"/> Hardcopy													
<input type="checkbox"/> EDD: <input type="checkbox"/> FAL Basic <input type="checkbox"/> Geotracker				<input type="checkbox"/> CD (.pdf including EDDs if requested)													
<input type="checkbox"/> Other: _____ <input type="checkbox"/> Custom: Contact FAL				<input checked="" type="checkbox"/> Email (.pdf including EDDs if requested)													
<input type="checkbox"/> California State Drinking Water Form																	
System #:		Source #:															
Sampler:		Employer:															
Sample ID		Date	Time	Matrix	# of containers	EPA 1613**	EPA 8290**	DLM 02.0	EPA 8280**	Appendix IX	EPA TO-9/9A	EPA 23/23A	EPA 1668	FAL 15	Other	**CONGENERS	**TEQ
		Collected															
1	<u>HC20131102-A-1</u>	<u>11/2/13</u>		<u>Air</u>	<u>1</u>								<input checked="" type="checkbox"/>				<u>Volume = 10,260 liters</u>
2	<u>A-2</u>												<input checked="" type="checkbox"/>				<u>Volume = 10,248 liters</u>
3	<u>A-3</u>												<input checked="" type="checkbox"/>				<u>Volume = 10,163 liters</u>
4	<u>A-4</u>												<input checked="" type="checkbox"/>				<u>Volume = 10,089 liters</u>
5	<u>A-5</u>												<input checked="" type="checkbox"/>				<u>Volume = 10,016 liters</u>
6	<u>A-6</u>												<input checked="" type="checkbox"/>				<u>Volume = 9,992 liters</u>
7	<u>A-7</u>												<input checked="" type="checkbox"/>				<u>Volume = 9,870 liters</u>
8	<u>A-8</u>												<input checked="" type="checkbox"/>				<u>Volume = 9,833 liters</u>
9	<u>A-9</u>												<input checked="" type="checkbox"/>				<u>Volume = 9,772 liters</u>
10	<u>A-10</u>												<input checked="" type="checkbox"/>				<u>Volume = 9,736 liters</u>
11	<u>A-11</u>												<input checked="" type="checkbox"/>				<u>Blank</u>
12	<u>A-12</u>												<input checked="" type="checkbox"/>				<u>Blank</u>
13																	
14																	
15																	
Samples will be disposed of 90 days after sample receipt unless other arrangements have been made and agreed upon in writing.																	
Relinquished by: (Signature and Printed Name)				Date	Time	Received by: (Signature and Printed Name)				Date	Time						
<u>Steven Medtland</u>				<u>11/4/13</u>		<u>Kathy Zep</u>				<u>11/5/13</u>	<u>1105</u>						

Client understands that all terms described in the proposals, quotations, and/or the general terms provided in the current FAL price schedules will be followed.
FAL reserves the rights to terminate its service or withhold delivery of reports, if in FAL's sole discretion the terms of the project have been broken.

White Copy - Report

Yellow Copy - Laboratory

Pink Copy - Originator

Frontier Analytical Laboratory

Sample Login Form

FAL Project ID: **8158**

Client:	The Phylmar Group
Client Project ID:	365-001A
Date Received:	11/05/2013
Time Received:	11:05 am
Received By:	KZ
Logged In By:	KZ
# of Samples Received:	12
Duplicates:	0
Storage Location:	R2

Method of Delivery:	Other
Tracking Number:	523102461
Shipping Container Received Intact	Yes
Custody seals(s) present?	No
Custody seals(s) intact?	No
Sample Arrival Temperature (C)	0
Cooling Method	Ice
Chain Of Custody Present?	Yes
Return Shipping Container To Client	No
Test aqueous sample for residual Chlorine	No
Sodium Thiosulfate Added	No
Adequate Sample Volume	Yes
Appropriate Sample Container	Yes
pH Range of Aqueous Sample	N/A
Anomalies or additional comments:	

FBI USE ONLY

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Frontier Analytical Laboratory
8158-001-SA
Client ID: HC20131102-A-1
Storage: R2 (01 of 01)

Frontier Analytical Laboratory
8158-002-SA
Client ID: HC20131102-A-2
Storage: R2 (01 of 01)

Frontier Analytical Laboratory
8158-003-SA
Client ID: HC20131102-A-3
Storage: R2 (01 of 01)

Frontier Analytical Laboratory
8158-004-SA
Client ID: HC20131102-A-4
Storage: R2 (01 of 01)

Frontier Analytical Laboratory
8158-005-SA
Client ID: HC20131102-A-5
Storage: R2 (01 of 01)

Frontier Analytical Laboratory
8158-006-SA
Client ID: HC20131102-A-6
Storage: R2 (01 of 01)

FRONTIER ANALYTICAL LABORATORY		FAL USE ONLY		Chain of Custody	
5172 Hillsdale Circle El Dorado Hills, CA 95762 Tel: 916-934-0900 Fax: 916-934-0999		Laboratory Project No: <u>8158</u> Temperature: <u>0</u> °C		www.frontieranalytical.com Please Print in Pen Page 1 of 1	
CLIENT INFORMATION Company Name: <u>Physian Group</u> Contact Name: <u>Mary Ketchen</u> Address: <u>3342 Mariposa Ave., Los Angeles, CA 90004</u> Phone: <u>310-476-9637</u> Fax: <u></u> Email: <u>mketchen@physian.com</u>		INVOICE INFORMATION (if different from client info) Company Name: <u>Seene</u> Contact Name: <u></u> Address: <u></u> Phone: <u></u> Fax: <u></u> Email: <u></u>		PROJECT INFORMATION FAL Quote #: <u>2711A</u> P.O. #: <u></u> Project #: <u>343-001A</u> Project Name: <u>Mitt (5/20/13) (don't add)</u> TAT (business days): <u>15</u> <input checked="" type="checkbox"/> <u>10</u> <input type="checkbox"/> <u>5</u> <input type="checkbox"/> <u>3</u> <input type="checkbox"/> * FAL must agree with price and RUSH TAT in writing.	
REPORT INFORMATION Report Level: <input type="checkbox"/> I <input type="checkbox"/> II <input type="checkbox"/> III <input type="checkbox"/> IV <input type="checkbox"/> EDD <input type="checkbox"/> FAL Basic <input type="checkbox"/> BioTracker		REPORT DISTRIBUTION (each unit is performed) <input type="checkbox"/> Hardcopy <input type="checkbox"/> CD (pdf including EDDs if requested)		ADDITIONAL INSTRUCTIONS <u></u>	

Frontier Analytical Laboratory	Frontier Analytical Laboratory	Frontier Analytical Laboratory	Frontier Analytical Laboratory	Frontier Analytical Laboratory	Frontier Analytical Laboratory
8158-007-SA	8158-008-SA	8158-009-SA	8158-010-SA	8158-011-SA	8158-012-SA
Client ID: HC20131102-A-7	Client ID: HC20131102-A-8	Client ID: HC20131102-A-9	Client ID: HC20131102-A-10	Client ID: HC20131102-A-11	Client ID: HC20131102-A-12
Storage: R2 (01 of 01)	Storage: R2 (01 of 01)	Storage: R2 (01 of 01)	Storage: R2 (01 of 01)	Storage: R2 (01 of 01)	Storage: R2 (01 of 01)
DATE: <u>HC20131102-A-7</u>	DATE: <u>HC20131102-A-8</u>	DATE: <u>HC20131102-A-9</u>	DATE: <u>HC20131102-A-10</u>	DATE: <u>HC20131102-A-11</u>	DATE: <u>HC20131102-A-12</u>
TIME: <u></u>	TIME: <u></u>	TIME: <u></u>	TIME: <u></u>	TIME: <u></u>	TIME: <u></u>
ANALYST: <u></u>	ANALYST: <u></u>	ANALYST: <u></u>	ANALYST: <u></u>	ANALYST: <u></u>	ANALYST: <u></u>
CLIENT: <u></u>	CLIENT: <u></u>	CLIENT: <u></u>	CLIENT: <u></u>	CLIENT: <u></u>	CLIENT: <u></u>