

**APPENDIX N.4 – ATTACHMENT 1**  
**EUROFINS CS 2014 PE SAMPLE RESULTS**



# QUALITY ASSURANCE TECHNICAL SUPPORT LABORATORY PES SCORING EVALUATION REPORT

|                           |                                             |                                |            |                                 |                |
|---------------------------|---------------------------------------------|--------------------------------|------------|---------------------------------|----------------|
| <b>PES:</b>               | SRS1830                                     | <b>EPA Sample No.:</b>         | SRS1830    | <b>Report Date:</b>             | 07/11/2014     |
| <b>Lab Name:</b>          | Calscience Environmental Laboratories, Inc. | <b>Case No.:</b>               | PV Shelf   | <b>Lab Code:</b>                | Calscience     |
| <b>Contract:</b>          | 14-05-1480                                  | <b>Matrix:</b>                 | Sediment   | <b>SAS/Client No.:</b>          | NR             |
| <b>SDG No.:</b>           | NR                                          | <b>Date Received:</b>          | 05/20/2014 | <b>Lab Sample ID:</b>           | 14-05-1480-1-A |
| <b>Lab File ID:</b>       | NR                                          | <b>Sample Wt./Vol. (g/mL):</b> | NR         | <b>Date Extracted:</b>          | 06/04/2014     |
| <b>Date Analyzed:</b>     | 06/10/2014                                  | <b>Decanted:</b>               | No         | <b>Level:</b>                   | NA             |
| <b>% Moisture:</b>        | 0.0%                                        | <b>GPC Cleanup:</b>            | NR         | <b>Conc. Extract Vol. (µL):</b> | NR             |
| <b>Inject. Vol. (µL):</b> | NR                                          | <b>Extraction Type:</b>        | NR         | <b>pH:</b>                      | NA             |
| <b>Dilution Factor:</b>   | 5.0                                         | <b>GPC Factor:</b>             | NR         | <b>Units:</b>                   | µg/Kg          |
| <b>Analysis Method:</b>   | EPA Method 8270C                            | <b>Sulfur Cleanup:</b>         | NR         |                                 |                |
| <b>Scoring Method:</b>    | Manual                                      |                                |            |                                 |                |
| <b>Comments:</b>          | Scored by CB&I Personnel                    |                                |            |                                 |                |

| CAS No.   | Analyte          | Laboratory Results |      | PES Evaluation |               |
|-----------|------------------|--------------------|------|----------------|---------------|
|           |                  | Concentration      | Q    |                |               |
| 72-54-8   | 4,4'-DDD         | 1900               |      | Pass           | Within Limits |
| 72-55-9   | 4,4'-DDE         | 1400               |      | Pass           | Within Limits |
| 50-29-3   | 4,4'-DDT         | 2000               |      | Pass           | Within Limits |
| 53-19-0   | 2,4'-DDD         | 1200               |      | Pass           | Within Limits |
| 3424-82-6 | 2,4'-DDE         | 1300               |      | Pass           | Within Limits |
| 789-02-6  | 2,4'-DDT         | 1200               |      | Pass           | Within Limits |
| ****      | Total DDT        | 9000               |      | Pass           | Within Limits |
| ****      | END All Analytes | *****              | **** | *****          | *****         |

NL = No Limit  
 NR = Not Reported  
 NE = Not Evaluated  
 NA = Not Applicable





# QUALITY ASSURANCE TECHNICAL SUPPORT LABORATORY PES SCORING EVALUATION REPORT

|                           |                                             |                                |            |                                 |                |
|---------------------------|---------------------------------------------|--------------------------------|------------|---------------------------------|----------------|
| <b>PES:</b>               | SRS1830                                     | <b>EPA Sample No.:</b>         | SRS1830    | <b>Report Date:</b>             | 07/11/2014     |
| <b>Lab Name:</b>          | Calscience Environmental Laboratories, Inc. |                                |            | <b>Lab Code:</b>                | Calscience     |
| <b>Contract:</b>          | 14-05-1480                                  | <b>Case No.:</b>               | PV Shelf   | <b>SAS/Client No.:</b>          | NR             |
| <b>SDG No.:</b>           | NR                                          | <b>Matrix:</b>                 | Sediment   | <b>Lab Sample ID:</b>           | 14-05-1480-1-A |
| <b>Lab File ID:</b>       | NR                                          | <b>Date Received:</b>          | 05/20/2014 | <b>Date Extracted:</b>          | 06/04/2014     |
| <b>Date Analyzed:</b>     | 06/10/2014                                  | <b>Sample Wt./Vol. (g/mL):</b> | NR         | <b>Level:</b>                   | NA             |
| <b>% Moisture:</b>        | 0.0%                                        | <b>Decanted:</b>               | No         | <b>Conc. Extract Vol. (µL):</b> | NR             |
| <b>Inject. Vol. (µL):</b> | NR                                          | <b>GPC Cleanup:</b>            | NR         | <b>pH:</b>                      | NA             |
| <b>Dilution Factor:</b>   | 1.0                                         | <b>Extraction Type:</b>        | NR         | <b>Units:</b>                   | µg/Kg          |
| <b>Analysis Method:</b>   | EPA Method 8270C                            | <b>GPC Factor:</b>             | NR         |                                 |                |
| <b>Scoring Method:</b>    | Manual                                      | <b>Sulfur Cleanup:</b>         | NR         |                                 |                |
| <b>Comments:</b>          | Scored by CB&I Personnel                    |                                |            |                                 |                |

| PCB Number      | Laboratory Results |   | PES Evaluation |               |
|-----------------|--------------------|---|----------------|---------------|
|                 | Concentration      | Q |                |               |
| 008             | 0.37               |   | Pass           | Within Limits |
| 018             | 0.83               |   | Pass           | Within Limits |
| 028             | <0.20              |   | NE             | NE            |
| 031             | <0.20              |   | NE             | NE            |
| 033             | <0.20              |   | NE             | NE            |
| 044             | 1.8                |   | Pass           | Within Limits |
| 049             | 1.2                |   | Pass           | Within Limits |
| 052             | 2.5                |   | Pass           | Within Limits |
| 066             | 1.1                |   | Pass           | Within Limits |
| 070/074         | 1.9                |   | Pass           | Within Limits |
| 087/097         | <0.20              |   | NE             | NE            |
| 095/098         | 3.8                |   | Pass           | Within Limits |
| 099             | 1.5                |   | Pass           | Within Limits |
| 101             | 4.2                |   | Pass           | Within Limits |
| 105             | <0.20              |   | NE             | NE            |
| 110             | 3.6                |   | Pass           | Within Limits |
| 118             | 2.6                |   | Pass           | Within Limits |
| 128             | 0.81               |   | Pass           | Within Limits |
| 132/153/168     | 14                 |   | Pass           | Within Limits |
| 129/138/160/163 | 9.9                |   | Pass           | Within Limits |
| 141             | 2.5                |   | Pass           | Within Limits |
| 147/149         | 6.4                |   | Pass           | Warning Low   |
| 135/151/154     | 2.5                |   | Pass           | Warning Low   |
| 156/157         | 0.50               |   | Pass           | Within Limits |
| 158             | 9.9                |   | NE             | NE            |
| 170             | 3.2                |   | Pass           | Within Limits |
| 174             | 4.6                |   | Pass           | Within Limits |
| 177             | 1.8                |   | Pass           | Within Limits |
| 180/193         | 8.6                |   | Pass           | Within Limits |
| 183/185         | 1.9                |   | Pass           | Warning Low   |



## QUALITY ASSURANCE TECHNICAL SUPPORT LABORATORY PES SCORING EVALUATION REPORT

| PCB Number       | Laboratory Results |      | PES Evaluation |               |
|------------------|--------------------|------|----------------|---------------|
|                  | Concentration      | Q    |                |               |
| 187              | 4.1                |      | Pass           | Within Limits |
| 194              | 2.0                |      | Pass           | Within Limits |
| 195              | 0.94               |      | Pass           | Within Limits |
| 201              | 0.28               |      | Pass           | Within Limits |
| 203              | 1.7                |      | Pass           | Within Limits |
| 206              | 0.62               |      | Pass           | Within Limits |
| Total PCBs       | NR                 |      | NE             | NE            |
| END All Analytes | *****              | **** | *****          | *****         |

NL = No Limit  
NR = Not Reported  
NE = Not Evaluated  
NA = Not Applicable



# QUALITY ASSURANCE TECHNICAL SUPPORT LABORATORY PES SCORING EVALUATION REPORT

**PES:** SRS1830 **EPA Sample No.:** SRS1830 **Report Date:** 07/11/2014  
**Lab Name:** Calscience Environmental Laboratories, Inc. **Lab Code:** Calscience  
**Contract:** 14-05-1480 **Case No.:** PV Shelf **SAS/Client No.:** NR  
**SDG No.:** NR **Matrix:** Sediment **Lab Sample ID:** 14-05-1480-1-A  
**Lab File ID:** NR **Date Received:** 05/20/2014 **Date Extracted:** NA  
**Date Analyzed:** 06/06/2014 **Sample Wt./Vol. (g/mL):** NR **Level:** NA  
**% Moisture:** 0.0% **Decanted:** NA **Conc. Extract Vol. (μL):** NR  
**Inject. Vol. (μL):** NR **GPC Cleanup:** NA **pH:** NA  
**Dilution Factor:** NA **Extraction Type:** NA **Units:** %  
**Analysis Method:** EPA Method 9060A **GPC Factor:** NA  
**Scoring Method:** Manual **Sulfur Cleanup:** NA  
**Comments:** Scored by CB&I Personnel

| CAS No. | Analyte              | Laboratory Results |      | PES Evaluation |               |
|---------|----------------------|--------------------|------|----------------|---------------|
|         |                      | Concentration      | Q    |                |               |
| ****    | Total Organic Carbon | 2.2                |      | Pass           | Within Limits |
| ****    | END All Analytes     | *****              | **** | *****          | *****         |

NL = No Limit  
NR = Not Reported  
NE = Not Evaluated  
NA = Not Applicable



**WORK ORDER NUMBER: 14-05-1480***The difference is service*

AIR | SOIL | WATER | MARINE CHEMISTRY

**Analytical Report For****Client:** Gilbane**Client Project Name:** PALOS VERDE SHELF**Attention:** Kristen Carlyon  
2730 Shadelands Drive, Suite 100  
Walnut Creek, CA 94598-2540

A handwritten signature in black ink, appearing to read "Danielle Gonsman".

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**Approved for release on 06/25/2014 by:**  
Danielle Gonsman  
Project Manager

ResultLink ▶

Email your PM ▶



Eurofins Calscience, Inc. (Calscience) certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is attached to this report. The results in this report are limited to the sample(s) tested and any reproduction thereof must be made in its entirety. The client or recipient of this report is specifically prohibited from making material changes to said report and, to the extent that such changes are made, Calscience is not responsible, legally or otherwise. The client or recipient agrees to indemnify Calscience for any defense to any litigation which may arise.

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Client Project Name: PALOS VERDE SHELF  
 Work Order Number: 14-05-1480

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**Work Order Narrative**

Work Order: 14-05-1480

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**Condition Upon Receipt:**

Samples were received under Chain-of-Custody (COC) on 05/20/14. They were assigned to Work Order 14-05-1480.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

**Holding Times:**

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of  $\leq 15$  minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

**Quality Control:**

All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

**Additional Comments:**

Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

New York NELAP air certification does not certify for all reported methods and analytes, reference the accredited items here: [http://www.calscience.com/PDF/New\\_York.pdf](http://www.calscience.com/PDF/New_York.pdf)

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are always reported on a wet weight basis.

**Subcontractor Information:**

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.



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**Sample Summary**

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|                                  |                                    |
|----------------------------------|------------------------------------|
| Client: Gilbane                  | Work Order: 14-05-1480             |
| 2730 Shadelands Drive, Suite 100 | Project Name: PALOS VERDE SHELF    |
| Walnut Creek, CA 94598-2540      | PO Number:                         |
|                                  | Date/Time Received: 05/20/14 10:30 |
|                                  | Number of Containers: 1            |

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Attn: Kristen Carlyon

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| Sample Identification | Lab Number   | Collection Date and Time | Number of Containers | Matrix   |
|-----------------------|--------------|--------------------------|----------------------|----------|
| SRS1830               | 14-05-1480-1 | 05/19/14 00:00           | 1                    | Sediment |

  
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## Analytical Report

|                                  |                |             |
|----------------------------------|----------------|-------------|
| Gilbane                          | Date Received: | 05/20/14    |
| 2730 Shadelands Drive, Suite 100 | Work Order:    | 14-05-1480  |
| Walnut Creek, CA 94598-2540      | Preparation:   | N/A         |
|                                  | Method:        | EPA 9060A   |
|                                  | Units:         | mg/kg       |
| Project: PALOS VERDE SHELF       |                | Page 1 of 1 |

| Client Sample Number | Lab Sample Number     | Date/Time Collected   | Matrix          | Instrument   | Date Prepared   | Date/Time Analyzed    | QC Batch ID       |
|----------------------|-----------------------|-----------------------|-----------------|--------------|-----------------|-----------------------|-------------------|
| <b>SRS1830</b>       | <b>14-05-1480-1-A</b> | <b>05/19/14 00:00</b> | <b>Sediment</b> | <b>TOC 5</b> | <b>06/06/14</b> | <b>06/06/14 14:40</b> | <b>E0606TOCL1</b> |

Comment(s): - Results are reported on a dry weight basis.  
 - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

| <u>Parameter</u>      | <u>Result</u> | <u>RL</u> | <u>MDL</u> | <u>DF</u> | <u>Qualifiers</u> |
|-----------------------|---------------|-----------|------------|-----------|-------------------|
| Carbon, Total Organic | 22000         | 500       | 120        | 1.00      |                   |

|                     |                        |            |              |              |                 |                       |                   |
|---------------------|------------------------|------------|--------------|--------------|-----------------|-----------------------|-------------------|
| <b>Method Blank</b> | <b>099-06-013-1057</b> | <b>N/A</b> | <b>Solid</b> | <b>TOC 5</b> | <b>06/06/14</b> | <b>06/06/14 14:40</b> | <b>E0606TOCL1</b> |
|---------------------|------------------------|------------|--------------|--------------|-----------------|-----------------------|-------------------|

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

| <u>Parameter</u>      | <u>Result</u> | <u>RL</u> | <u>MDL</u> | <u>DF</u> | <u>Qualifiers</u> |
|-----------------------|---------------|-----------|------------|-----------|-------------------|
| Carbon, Total Organic | ND            | 500       | 120        | 1.00      |                   |

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Gilbane  
2730 Shadelands Drive, Suite 100  
Walnut Creek, CA 94598-2540

Date Received: 05/20/14  
Work Order: 14-05-1480  
Preparation: EPA 3545  
Method: EPA 8270C PEST-SIM  
Units: ug/kg

Project: PALOS VERDE SHELF

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix   | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|----------|------------|---------------|--------------------|-------------|
| SRS1830              | 14-05-1480-1-A    | 05/19/14 00:00      | Sediment | GC/MS HHH  | 06/04/14      | 06/10/14 21:38     | 140604L31   |

Comment(s): - Results are reported on a dry weight basis.  
- Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL  | MDL | DF   | Qualifiers |
|-----------|--------|-----|-----|------|------------|
| 4,4'-DDMU | ND     | 5.0 | 1.4 | 1.00 |            |
| 4,4'-DDNU | ND     | 5.0 | 1.5 | 1.00 |            |

| Surrogate                    | Rec. (%) | Control Limits | Qualifiers |
|------------------------------|----------|----------------|------------|
| 2,4,5,6-Tetrachloro-m-Xylene | 83       | 50-125         |            |

|         |                |                |          |           |          |                |           |
|---------|----------------|----------------|----------|-----------|----------|----------------|-----------|
| SRS1830 | 14-05-1480-1-A | 05/19/14 00:00 | Sediment | GC/MS HHH | 06/04/14 | 06/10/14 15:21 | 140604L31 |
|---------|----------------|----------------|----------|-----------|----------|----------------|-----------|

Comment(s): - Results are reported on a dry weight basis.  
- Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

| Parameter | Result | RL | MDL | DF   | Qualifiers |
|-----------|--------|----|-----|------|------------|
| 2,4'-DDD  | 1200   | 25 | 12  | 5.00 |            |
| 2,4'-DDE  | 1300   | 25 | 7.4 | 5.00 |            |
| 2,4'-DDT  | 1200   | 25 | 14  | 5.00 |            |
| 4,4'-DDD  | 1900   | 25 | 15  | 5.00 |            |
| 4,4'-DDE  | 1400   | 25 | 9.9 | 5.00 |            |
| 4,4'-DDT  | 2000   | 25 | 16  | 5.00 |            |

| Surrogate                    | Rec. (%) | Control Limits | Qualifiers |
|------------------------------|----------|----------------|------------|
| 2,4,5,6-Tetrachloro-m-Xylene | 90       | 50-125         |            |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Gilbane  
2730 Shadelands Drive, Suite 100  
Walnut Creek, CA 94598-2540

Date Received: 05/20/14  
Work Order: 14-05-1480  
Preparation: EPA 3545  
Method: EPA 8270C PEST-SIM  
Units: ug/kg

Project: PALOS VERDE SHELF

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|--------|------------|---------------|--------------------|-------------|
| Method Blank         | 099-13-013-73     | N/A                 | Solid  | GC/MS HHH  | 06/04/14      | 06/10/14 13:36     | 140604L31   |

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

| <u>Parameter</u> | <u>Result</u> | <u>RL</u> | <u>MDL</u> | <u>DF</u> | <u>Qualifiers</u> |
|------------------|---------------|-----------|------------|-----------|-------------------|
| 2,4'-DDD         | ND            | 5.0       | 2.3        | 1.00      |                   |
| 2,4'-DDE         | ND            | 5.0       | 1.5        | 1.00      |                   |
| 2,4'-DDT         | ND            | 5.0       | 2.9        | 1.00      |                   |
| 4,4'-DDD         | ND            | 5.0       | 3.0        | 1.00      |                   |
| 4,4'-DDE         | ND            | 5.0       | 2.0        | 1.00      |                   |
| 4,4'-DDMU        | ND            | 5.0       | 1.4        | 1.00      |                   |
| 4,4'-DDNU        | ND            | 5.0       | 1.5        | 1.00      |                   |
| 4,4'-DDT         | ND            | 5.0       | 3.2        | 1.00      |                   |

| <u>Surrogate</u>             | <u>Rec. (%)</u> | <u>Control Limits</u> | <u>Qualifiers</u> |
|------------------------------|-----------------|-----------------------|-------------------|
| 2,4,5,6-Tetrachloro-m-Xylene | 83              | 50-125                |                   |

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Gilbane  
2730 Shadelands Drive, Suite 100  
Walnut Creek, CA 94598-2540

Date Received: 05/20/14  
Work Order: 14-05-1480  
Preparation: EPA 3545  
Method: EPA 8270C SIM PCB Congeners  
Units: ug/kg

Project: PALOS VERDE SHELF

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix   | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|----------|------------|---------------|--------------------|-------------|
| SRS1830              | 14-05-1480-1-A    | 05/19/14 00:00      | Sediment | GC/MS HHH  | 06/04/14      | 06/10/14 22:10     | 140604L30   |

Comment(s): - Results are reported on a dry weight basis.

- Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

| Parameter  | Result | RL   | MDL   | DF   | Qualifiers |
|------------|--------|------|-------|------|------------|
| PCB003     | ND     | 0.20 | 0.047 | 1.00 |            |
| PCB005/008 | 0.37   | 0.40 | 0.047 | 1.00 | J          |
| PCB015     | ND     | 0.20 | 0.023 | 1.00 |            |
| PCB018     | 0.83   | 0.20 | 0.039 | 1.00 |            |
| PCB027     | ND     | 0.20 | 0.028 | 1.00 |            |
| PCB028     | ND     | 0.20 | 0.055 | 1.00 |            |
| PCB029     | ND     | 0.20 | 0.035 | 1.00 |            |
| PCB031     | ND     | 0.20 | 0.029 | 1.00 |            |
| PCB033     | ND     | 0.20 | 0.035 | 1.00 |            |
| PCB037     | ND     | 0.20 | 0.035 | 1.00 |            |
| PCB044     | 1.8    | 0.20 | 0.092 | 1.00 |            |
| PCB049     | 1.2    | 0.20 | 0.086 | 1.00 |            |
| PCB052     | 2.5    | 0.20 | 0.051 | 1.00 |            |
| PCB056     | ND     | 0.20 | 0.048 | 1.00 |            |
| PCB060     | ND     | 0.20 | 0.063 | 1.00 |            |
| PCB066     | 1.1    | 0.20 | 0.075 | 1.00 |            |
| PCB070     | 1.3    | 0.20 | 0.048 | 1.00 |            |
| PCB074     | 0.63   | 0.20 | 0.046 | 1.00 |            |
| PCB077     | 0.65   | 0.20 | 0.085 | 1.00 |            |
| PCB081     | ND     | 0.20 | 0.064 | 1.00 |            |
| PCB087     | ND     | 0.20 | 0.041 | 1.00 |            |
| PCB095     | 3.8    | 0.20 | 0.050 | 1.00 |            |
| PCB097     | ND     | 0.20 | 0.043 | 1.00 |            |
| PCB099     | 1.5    | 0.20 | 0.054 | 1.00 |            |
| PCB101     | 4.2    | 0.20 | 0.051 | 1.00 |            |
| PCB105     | ND     | 0.20 | 0.042 | 1.00 |            |
| PCB110     | 3.6    | 0.20 | 0.046 | 1.00 |            |
| PCB114     | ND     | 0.20 | 0.036 | 1.00 |            |
| PCB118     | 2.6    | 0.20 | 0.059 | 1.00 |            |
| PCB119     | ND     | 0.20 | 0.046 | 1.00 |            |
| PCB123     | ND     | 0.20 | 0.047 | 1.00 |            |
| PCB126     | ND     | 0.20 | 0.034 | 1.00 |            |
| PCB128     | 0.81   | 0.20 | 0.039 | 1.00 |            |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

|                                  |                |                             |
|----------------------------------|----------------|-----------------------------|
| Gilbane                          | Date Received: | 05/20/14                    |
| 2730 Shadelands Drive, Suite 100 | Work Order:    | 14-05-1480                  |
| Walnut Creek, CA 94598-2540      | Preparation:   | EPA 3545                    |
|                                  | Method:        | EPA 8270C SIM PCB Congeners |
|                                  | Units:         | ug/kg                       |
| Project: PALOS VERDE SHELF       |                | Page 2 of 4                 |

| <u>Parameter</u> | <u>Result</u> | <u>RL</u> | <u>MDL</u> | <u>DF</u> | <u>Qualifiers</u> |
|------------------|---------------|-----------|------------|-----------|-------------------|
| PCB132/153       | 14            | 0.40      | 0.067      | 1.00      |                   |
| PCB137           | ND            | 0.20      | 0.048      | 1.00      |                   |
| PCB138/158       | 9.9           | 0.40      | 0.075      | 1.00      |                   |
| PCB141           | 2.5           | 0.20      | 0.098      | 1.00      |                   |
| PCB149           | 6.4           | 0.20      | 0.048      | 1.00      |                   |
| PCB151           | 2.5           | 0.20      | 0.062      | 1.00      |                   |
| PCB156           | 0.50          | 0.20      | 0.066      | 1.00      |                   |
| PCB157           | ND            | 0.20      | 0.051      | 1.00      |                   |
| PCB167           | ND            | 0.20      | 0.042      | 1.00      |                   |
| PCB168           | ND            | 0.20      | 0.045      | 1.00      |                   |
| PCB169           | ND            | 0.20      | 0.033      | 1.00      |                   |
| PCB170           | 3.2           | 0.20      | 0.050      | 1.00      |                   |
| PCB174           | 4.6           | 0.20      | 0.039      | 1.00      |                   |
| PCB177           | 1.8           | 0.20      | 0.040      | 1.00      |                   |
| PCB180           | 8.6           | 0.20      | 0.030      | 1.00      |                   |
| PCB183           | 1.9           | 0.20      | 0.032      | 1.00      |                   |
| PCB184           | ND            | 0.20      | 0.041      | 1.00      |                   |
| PCB187           | 4.1           | 0.20      | 0.039      | 1.00      |                   |
| PCB189           | ND            | 0.20      | 0.025      | 1.00      |                   |
| PCB194           | 2.0           | 0.20      | 0.041      | 1.00      |                   |
| PCB195           | 0.94          | 0.20      | 0.032      | 1.00      |                   |
| PCB200           | ND            | 0.20      | 0.059      | 1.00      |                   |
| PCB201           | 0.28          | 0.20      | 0.044      | 1.00      |                   |
| PCB203           | 1.7           | 0.20      | 0.035      | 1.00      |                   |
| PCB206           | 0.62          | 0.20      | 0.045      | 1.00      |                   |
| PCB209           | 0.21          | 0.20      | 0.067      | 1.00      |                   |

| <u>Surrogate</u> | <u>Rec. (%)</u> | <u>Control Limits</u> | <u>Qualifiers</u> |
|------------------|-----------------|-----------------------|-------------------|
| 2-Fluorobiphenyl | 77              | 50-150                |                   |
| p-Terphenyl-d14  | 73              | 50-150                |                   |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

## Analytical Report

Gilbane  
2730 Shadelands Drive, Suite 100  
Walnut Creek, CA 94598-2540

Date Received: 05/20/14  
Work Order: 14-05-1480  
Preparation: EPA 3545  
Method: EPA 8270C SIM PCB Congeners  
Units: ug/kg

Project: PALOS VERDE SHELF

Page 3 of 4

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|--------|------------|---------------|--------------------|-------------|
| Method Blank         | 099-16-418-9      | N/A                 | Solid  | GC/MS HHH  | 06/04/14      | 06/16/14 20:07     | 140604L30   |

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

| Parameter  | Result | RL   | MDL   | DF   | Qualifiers |
|------------|--------|------|-------|------|------------|
| PCB003     | ND     | 0.20 | 0.047 | 1.00 |            |
| PCB005/008 | ND     | 0.40 | 0.047 | 1.00 |            |
| PCB015     | ND     | 0.20 | 0.023 | 1.00 |            |
| PCB018     | ND     | 0.20 | 0.039 | 1.00 |            |
| PCB027     | ND     | 0.20 | 0.028 | 1.00 |            |
| PCB028     | ND     | 0.20 | 0.055 | 1.00 |            |
| PCB029     | ND     | 0.20 | 0.035 | 1.00 |            |
| PCB031     | ND     | 0.20 | 0.029 | 1.00 |            |
| PCB033     | ND     | 0.20 | 0.035 | 1.00 |            |
| PCB037     | ND     | 0.20 | 0.035 | 1.00 |            |
| PCB044     | ND     | 0.20 | 0.092 | 1.00 |            |
| PCB049     | ND     | 0.20 | 0.086 | 1.00 |            |
| PCB052     | ND     | 0.20 | 0.051 | 1.00 |            |
| PCB056     | ND     | 0.20 | 0.048 | 1.00 |            |
| PCB060     | ND     | 0.20 | 0.063 | 1.00 |            |
| PCB066     | ND     | 0.20 | 0.075 | 1.00 |            |
| PCB070     | ND     | 0.20 | 0.048 | 1.00 |            |
| PCB074     | ND     | 0.20 | 0.046 | 1.00 |            |
| PCB077     | ND     | 0.20 | 0.085 | 1.00 |            |
| PCB081     | ND     | 0.20 | 0.064 | 1.00 |            |
| PCB087     | ND     | 0.20 | 0.041 | 1.00 |            |
| PCB095     | ND     | 0.20 | 0.050 | 1.00 |            |
| PCB097     | ND     | 0.20 | 0.043 | 1.00 |            |
| PCB099     | ND     | 0.20 | 0.054 | 1.00 |            |
| PCB101     | ND     | 0.20 | 0.051 | 1.00 |            |
| PCB105     | ND     | 0.20 | 0.042 | 1.00 |            |
| PCB110     | ND     | 0.20 | 0.046 | 1.00 |            |
| PCB114     | ND     | 0.20 | 0.036 | 1.00 |            |
| PCB118     | ND     | 0.20 | 0.059 | 1.00 |            |
| PCB119     | ND     | 0.20 | 0.046 | 1.00 |            |
| PCB123     | ND     | 0.20 | 0.047 | 1.00 |            |
| PCB126     | ND     | 0.20 | 0.034 | 1.00 |            |
| PCB128     | ND     | 0.20 | 0.039 | 1.00 |            |
| PCB132/153 | ND     | 0.40 | 0.067 | 1.00 |            |

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

## Analytical Report

Gilbane  
2730 Shadelands Drive, Suite 100  
Walnut Creek, CA 94598-2540

Date Received: 05/20/14  
Work Order: 14-05-1480  
Preparation: EPA 3545  
Method: EPA 8270C SIM PCB Congeners  
Units: ug/kg

Project: PALOS VERDE SHELF

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| <u>Parameter</u> | <u>Result</u> | <u>RL</u> | <u>MDL</u> | <u>DF</u> | <u>Qualifiers</u> |
|------------------|---------------|-----------|------------|-----------|-------------------|
| PCB137           | ND            | 0.20      | 0.048      | 1.00      |                   |
| PCB138/158       | ND            | 0.40      | 0.075      | 1.00      |                   |
| PCB141           | ND            | 0.20      | 0.098      | 1.00      |                   |
| PCB149           | ND            | 0.20      | 0.048      | 1.00      |                   |
| PCB151           | ND            | 0.20      | 0.062      | 1.00      |                   |
| PCB156           | ND            | 0.20      | 0.066      | 1.00      |                   |
| PCB157           | ND            | 0.20      | 0.051      | 1.00      |                   |
| PCB167           | ND            | 0.20      | 0.042      | 1.00      |                   |
| PCB168           | ND            | 0.20      | 0.045      | 1.00      |                   |
| PCB169           | ND            | 0.20      | 0.033      | 1.00      |                   |
| PCB170           | ND            | 0.20      | 0.050      | 1.00      |                   |
| PCB174           | ND            | 0.20      | 0.039      | 1.00      |                   |
| PCB177           | ND            | 0.20      | 0.040      | 1.00      |                   |
| PCB180           | ND            | 0.20      | 0.030      | 1.00      |                   |
| PCB183           | ND            | 0.20      | 0.032      | 1.00      |                   |
| PCB184           | ND            | 0.20      | 0.041      | 1.00      |                   |
| PCB187           | ND            | 0.20      | 0.039      | 1.00      |                   |
| PCB189           | ND            | 0.20      | 0.025      | 1.00      |                   |
| PCB194           | ND            | 0.20      | 0.041      | 1.00      |                   |
| PCB195           | ND            | 0.20      | 0.032      | 1.00      |                   |
| PCB200           | ND            | 0.20      | 0.059      | 1.00      |                   |
| PCB201           | ND            | 0.20      | 0.044      | 1.00      |                   |
| PCB203           | ND            | 0.20      | 0.035      | 1.00      |                   |
| PCB206           | ND            | 0.20      | 0.045      | 1.00      |                   |
| PCB209           | ND            | 0.20      | 0.067      | 1.00      |                   |

| <u>Surrogate</u> | <u>Rec. (%)</u> | <u>Control Limits</u> | <u>Qualifiers</u> |
|------------------|-----------------|-----------------------|-------------------|
| 2-Fluorobiphenyl | 89              | 50-150                |                   |
| p-Terphenyl-d14  | 77              | 50-150                |                   |

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

## Quality Control - LCS/LCSD

Gilbane  
2730 Shadelands Drive, Suite 100  
Walnut Creek, CA 94598-2540

Date Received: 05/20/14  
Work Order: 14-05-1480  
Preparation: N/A  
Method: EPA 9060A

Project: PALOS VERDE SHELF

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| Quality Control Sample ID | Type | Matrix | Instrument | Date Prepared | Date Analyzed  | LCS/LCSD Batch Number |
|---------------------------|------|--------|------------|---------------|----------------|-----------------------|
| 099-06-013-1057           | LCS  | Solid  | TOC 5      | 06/06/14      | 06/06/14 14:40 | E0606TOCL1            |
| 099-06-013-1057           | LCSD | Solid  | TOC 5      | 06/06/14      | 06/06/14 14:40 | E0606TOCL1            |

| Parameter             | Spike Added | LCS Conc. | LCS %Rec. | LCSD Conc. | LCSD %Rec. | %Rec. CL | RPD | RPD CL | Qualifiers |
|-----------------------|-------------|-----------|-----------|------------|------------|----------|-----|--------|------------|
| Carbon, Total Organic | 6000        | 5442      | 91        | 5636       | 94         | 80-120   | 4   | 0-20   |            |

  
Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



Calscience

## Quality Control - LCS/LCSD

Gilbane  
2730 Shadelands Drive, Suite 100  
Walnut Creek, CA 94598-2540

Date Received: 05/20/14  
Work Order: 14-05-1480  
Preparation: EPA 3545  
Method: EPA 8270C PEST-SIM

Project: PALOS VERDE SHELF

Page 2 of 3

| Quality Control Sample ID | Type | Matrix | Instrument | Date Prepared | Date Analyzed  | LCS/LCSD Batch Number |
|---------------------------|------|--------|------------|---------------|----------------|-----------------------|
| 099-13-013-73             | LCS  | Solid  | GC/MS HHH  | 06/04/14      | 06/24/14 12:18 | 140604L31             |
| 099-13-013-73             | LCSD | Solid  | GC/MS HHH  | 06/04/14      | 06/24/14 12:54 | 140604L31             |

| Parameter | Spike Added | LCS Conc. | LCS %Rec. | LCSD Conc. | LCSD %Rec. | %Rec. CL | RPD | RPD CL | Qualifiers |
|-----------|-------------|-----------|-----------|------------|------------|----------|-----|--------|------------|
| 2,4'-DDD  | 100.0       | 116.4     | 116       | 114.8      | 115        | 50-125   | 1   | 0-30   |            |
| 2,4'-DDE  | 100.0       | 107.3     | 107       | 109.4      | 109        | 50-125   | 2   | 0-30   |            |
| 2,4'-DDT  | 100.0       | 100.0     | 100       | 94.57      | 95         | 50-125   | 6   | 0-30   |            |
| 4,4'-DDD  | 100.0       | 120.2     | 120       | 115.1      | 115        | 50-125   | 4   | 0-30   |            |
| 4,4'-DDE  | 100.0       | 123.1     | 123       | 119.3      | 119        | 50-125   | 3   | 0-30   |            |
| 4,4'-DDMU | 100.0       | 96.15     | 96        | 94.99      | 95         | 50-125   | 1   | 0-30   |            |
| 4,4'-DDNU | 100.0       | 109.3     | 109       | 109.4      | 109        | 50-125   | 0   | 0-30   |            |
| 4,4'-DDT  | 100.0       | 100.9     | 101       | 96.86      | 97         | 50-125   | 4   | 0-30   |            |

  
Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



Calscience

## Quality Control - LCS/LCSD

Gilbane  
2730 Shadelands Drive, Suite 100  
Walnut Creek, CA 94598-2540

Date Received: 05/20/14  
Work Order: 14-05-1480  
Preparation: EPA 3545  
Method: EPA 8270C SIM PCB Congeners

Project: PALOS VERDE SHELF

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| Quality Control Sample ID | Type        | Matrix    |           | Instrument | Date Prepared | Date Analyzed  | LCS/LCSD Batch Number |     |        |            |
|---------------------------|-------------|-----------|-----------|------------|---------------|----------------|-----------------------|-----|--------|------------|
| 099-16-418-9              | LCS         | Solid     |           | GC/MS HHH  | 06/04/14      | 06/16/14 21:03 | 140604L30             |     |        |            |
| 099-16-418-9              | LCSD        | Solid     |           | GC/MS HHH  | 06/04/14      | 06/16/14 21:32 | 140604L30             |     |        |            |
| Parameter                 | Spike Added | LCS Conc. | LCS %Rec. | LCSD Conc. | LCSD %Rec.    | %Rec. CL       | ME CL                 | RPD | RPD CL | Qualifiers |
| PCB018                    | 50.00       | 31.56     | 63        | 31.27      | 63            | 50-150         | 33-167                | 1   | 0-25   |            |
| PCB028                    | 50.00       | 34.25     | 68        | 36.12      | 72            | 50-150         | 33-167                | 5   | 0-25   |            |
| PCB044                    | 50.00       | 31.59     | 63        | 32.32      | 65            | 50-150         | 33-167                | 2   | 0-25   |            |
| PCB052                    | 50.00       | 30.25     | 60        | 30.79      | 62            | 50-150         | 33-167                | 2   | 0-25   |            |
| PCB066                    | 50.00       | 37.05     | 74        | 38.45      | 77            | 50-150         | 33-167                | 4   | 0-25   |            |
| PCB077                    | 50.00       | 33.66     | 67        | 35.48      | 71            | 50-150         | 33-167                | 5   | 0-25   |            |
| PCB101                    | 50.00       | 31.56     | 63        | 32.15      | 64            | 50-150         | 33-167                | 2   | 0-25   |            |
| PCB105                    | 50.00       | 29.47     | 59        | 37.34      | 75            | 50-150         | 33-167                | 24  | 0-25   |            |
| PCB118                    | 50.00       | 33.60     | 67        | 35.05      | 70            | 50-150         | 33-167                | 4   | 0-25   |            |
| PCB126                    | 50.00       | 29.30     | 59        | 32.82      | 66            | 50-150         | 33-167                | 11  | 0-25   |            |
| PCB128                    | 50.00       | 24.95     | 50        | 27.78      | 56            | 50-150         | 33-167                | 11  | 0-25   |            |
| PCB170                    | 50.00       | 34.81     | 70        | 34.11      | 68            | 50-150         | 33-167                | 2   | 0-25   |            |
| PCB180                    | 50.00       | 29.08     | 58        | 32.79      | 66            | 50-150         | 33-167                | 12  | 0-25   |            |
| PCB187                    | 50.00       | 29.19     | 58        | 32.99      | 66            | 50-150         | 33-167                | 12  | 0-25   |            |
| PCB195                    | 50.00       | 43.44     | 87        | 43.43      | 87            | 50-150         | 33-167                | 0   | 0-25   |            |
| PCB206                    | 50.00       | 39.37     | 79        | 37.71      | 75            | 50-150         | 33-167                | 4   | 0-25   |            |
| PCB209                    | 50.00       | 39.27     | 79        | 42.40      | 85            | 50-150         | 33-167                | 8   | 0-25   |            |

Total number of LCS compounds: 17

Total number of ME compounds: 0

Total number of ME compounds allowed: 1

LCS ME CL validation result: Pass

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits

## Glossary of Terms and Qualifiers

Work Order: 14-05-1480

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| <u>Qualifiers</u> | <u>Definition</u>                                                                                                                                                                                                          |
|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| *                 | See applicable analysis comment.                                                                                                                                                                                           |
| <                 | Less than the indicated value.                                                                                                                                                                                             |
| >                 | Greater than the indicated value.                                                                                                                                                                                          |
| 1                 | Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.                                                                   |
| 2                 | Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification. |
| 3                 | Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to suspected matrix interference. The associated LCS recovery was in control.                                            |
| 4                 | The MS/MSD RPD was out of control due to suspected matrix interference.                                                                                                                                                    |
| 5                 | The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to suspected matrix interference.                                                                                                    |
| 6                 | Surrogate recovery below the acceptance limit.                                                                                                                                                                             |
| 7                 | Surrogate recovery above the acceptance limit.                                                                                                                                                                             |
| B                 | Analyte was present in the associated method blank.                                                                                                                                                                        |
| BU                | Sample analyzed after holding time expired.                                                                                                                                                                                |
| BV                | Sample received after holding time expired.                                                                                                                                                                                |
| E                 | Concentration exceeds the calibration range.                                                                                                                                                                               |
| ET                | Sample was extracted past end of recommended max. holding time.                                                                                                                                                            |
| HD                | The chromatographic pattern was inconsistent with the profile of the reference fuel standard.                                                                                                                              |
| HDH               | The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).                                                         |
| HDL               | The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).                                                         |
| J                 | Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.                                                                            |
| JA                | Analyte positively identified but quantitation is an estimate.                                                                                                                                                             |
| ME                | LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean).                                                                                                                   |
| ND                | Parameter not detected at the indicated reporting limit.                                                                                                                                                                   |
| Q                 | Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.                                              |
| SG                | The sample extract was subjected to Silica Gel treatment prior to analysis.                                                                                                                                                |
| X                 | % Recovery and/or RPD out-of-range.                                                                                                                                                                                        |
| Z                 | Analyte presence was not confirmed by second column or GC/MS analysis.                                                                                                                                                     |
|                   | Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.                                                  |

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of ≤ 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

A calculated total result (Example: Total Pesticides) is the summation of each component concentration and/or, if "J" flags are reported, estimated concentration. Component concentrations showing not detected (ND) are summed into the calculated total result as zero concentrations.

# Recipient Copy

## CHAIN-OF-CUSTODY RECORD

Page 16 of 18  
COC No. 12926

Order Number: SG012384

Date Shipped: 5/19/2014

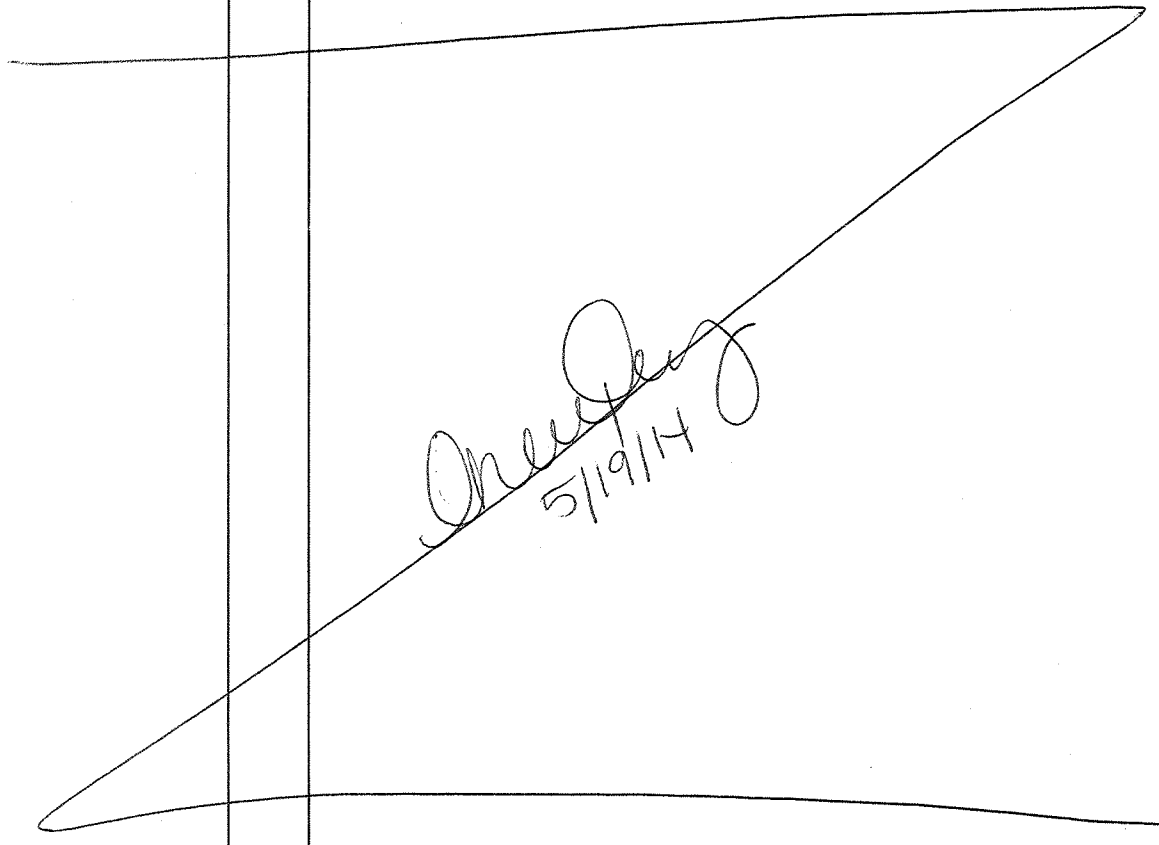
AirBill No(s):

From: QATS LABORATORY  
2700 CHANDLER AVENUE, BLDG. C  
LAS VEGAS, NV 89120  
PHONE: 1-702-895-8712  
FAX: 1-702-795-8210

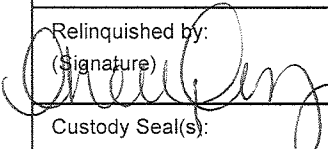
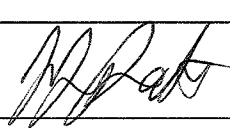
To: DANIELLE GONSMAN  
CALSCIENCE ENVIRONMENTAL LAB  
7440 LINCOLN WAY  
GARDEN GROVE CA 92841  
714-895-5494

560847650191

**14-05-1480**

| Sample ID                                                                           | Sigma ID | Qty | Description/Remarks            | → Catalogue Number |
|-------------------------------------------------------------------------------------|----------|-----|--------------------------------|--------------------|
| SRS1830                                                                             | SR0668   | 1   | PESTICIDES/CBC-MARINE SEDIMENT | SR-PES             |
|  |          |     |                                |                    |
| SUPERFUND SITE NAME: PALOS VERDE SHELF                                              |          |     |                                |                    |

Please use the enclosed Sample Preparation Instructions. If catalogue number(s) are listed at the top of the Sample Preparation Instructions use the Sample Preparation Instructions with catalogue number(s) matching the catalogue number(s) of each of the samples listed above.

|                                                                                                                       |                              |                                                                                                                     |                           |
|-----------------------------------------------------------------------------------------------------------------------|------------------------------|---------------------------------------------------------------------------------------------------------------------|---------------------------|
| Relinquished by:<br>(Signature)<br> | Date/Time<br>1330<br>5/19/14 | Received by:<br>(Signature)                                                                                         | Date/Time                 |
| Custody Seal(s):<br>Present/Absent                                                                                    | Remarks:                     |                                                                                                                     |                           |
| Relinquished by:<br>(Signature)                                                                                       | Date/Time                    | Received by:<br>(Signature)<br> | Date/Time<br>5/20/14 1030 |

1480

ORIGIN ID: LASA (702) 895-8712  
 AIMEE PEREZ  
 SHAW ENVIRONMENTAL, INC.  
 2700 CHANDLER AVE.  
 SUITE C  
 LAS VEGAS, NV 89120  
 UNITED STATES US

SHIP DATE: 19MAY14  
 ACTWGT: 1.0 LB MAN  
 CAD: 0157618/CAFE2704

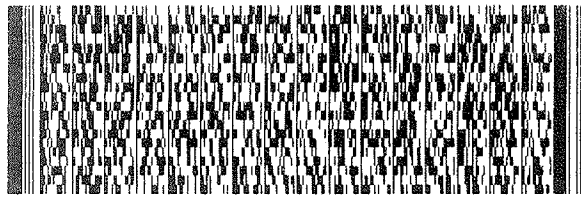
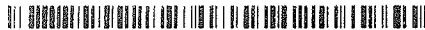
BILL SENDER

TO **ATTN: DANIELLE GONSMAN**  
**CALSCIENCE ENVIRONMENTAL LAB, INC.**  
**7440 LINCOLN WAY**

**GARDEN GROVE CA 92841**

(714) 896-5494 X 232  
 DEPT: KEITH

REF: 03010000



**FedEx**  
 Express



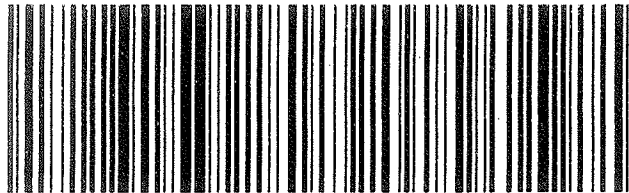
TRK# 5608 4765 0191  
 0201

**TUE - 20 MAY 10:30A**  
**PRIORITY OVERNIGHT**

**QZ APVA**

**92841**  
 CA-US **SNA**

Part # 156140-434 NRT 6-05



WORK ORDER #: **14-05-** 1 4 8 0

# **SAMPLE RECEIPT FORM**

Box  
Cooler 1 of 1

CLIENT: QATS Lab

DATE: 05/20/14

**TEMPERATURE:** Thermometer ID: SC2 (Criteria: 0.0 °C – 6.0 °C, not frozen except sediment/tissue)

Temperature 20.7 °C - 0.3 °C (CF) = 20.4 °C ☐ Blank ☒ Sample

☒ Sample(s) outside temperature criteria (PM/APM contacted by: LS)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

☐ Received at ambient temperature, placed on ice for transport by Courier.

Ambient Temperature: ☐ Air ☐ Filter

Checked by: LS

## **CUSTODY SEALS INTACT:**

☐ Cooler ☒ BOX ☐ No (Not Intact) ☐ Not Present ☐ N/A Checked by: LS

☐ Sample ☐                      ☐ No (Not Intact) ☒ Not Present Checked by: SR

## **SAMPLE CONDITION:**

|                                                               | Yes                                 | No                       | N/A                      |
|---------------------------------------------------------------|-------------------------------------|--------------------------|--------------------------|
| Chain-Of-Custody (COC) document(s) received with samples..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

|                                        |                                     |                                     |                          |
|----------------------------------------|-------------------------------------|-------------------------------------|--------------------------|
| COC document(s) received complete..... | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
|----------------------------------------|-------------------------------------|-------------------------------------|--------------------------|

☒ Collection date/time, matrix, and/or # of containers logged in based on sample labels.

☐ No analysis requested. ☐ Not relinquished. ☐ No date/time relinquished.

|                                      |                          |                          |                                     |
|--------------------------------------|--------------------------|--------------------------|-------------------------------------|
| Sampler's name indicated on COC..... | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
|--------------------------------------|--------------------------|--------------------------|-------------------------------------|

|                                                    |                                     |                          |                          |
|----------------------------------------------------|-------------------------------------|--------------------------|--------------------------|
| Sample container label(s) consistent with COC..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
|----------------------------------------------------|-------------------------------------|--------------------------|--------------------------|

|                                                    |                                     |                          |                          |
|----------------------------------------------------|-------------------------------------|--------------------------|--------------------------|
| Sample container(s) intact and good condition..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
|----------------------------------------------------|-------------------------------------|--------------------------|--------------------------|

|                                                                     |                                     |                          |                          |
|---------------------------------------------------------------------|-------------------------------------|--------------------------|--------------------------|
| Proper containers and sufficient volume for analyses requested..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
|---------------------------------------------------------------------|-------------------------------------|--------------------------|--------------------------|

|                                            |                                     |                          |                          |
|--------------------------------------------|-------------------------------------|--------------------------|--------------------------|
| Analyses received within holding time..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
|--------------------------------------------|-------------------------------------|--------------------------|--------------------------|

Aqueous samples received within 15-minute holding time

|                                                                                                                                                                   |                          |                          |                                     |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|--------------------------|-------------------------------------|
| <input type="checkbox"/> pH <input type="checkbox"/> Residual Chlorine <input type="checkbox"/> Dissolved Sulfides <input type="checkbox"/> Dissolved Oxygen..... | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|--------------------------|-------------------------------------|

|                                                           |                          |                          |                                     |
|-----------------------------------------------------------|--------------------------|--------------------------|-------------------------------------|
| Proper preservation noted on COC or sample container..... | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
|-----------------------------------------------------------|--------------------------|--------------------------|-------------------------------------|

☐ Unpreserved vials received for Volatiles analysis

|                                                       |                          |                          |                                     |
|-------------------------------------------------------|--------------------------|--------------------------|-------------------------------------|
| Volatile analysis container(s) free of headspace..... | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
|-------------------------------------------------------|--------------------------|--------------------------|-------------------------------------|

|                                         |                          |                          |                                     |
|-----------------------------------------|--------------------------|--------------------------|-------------------------------------|
| Tedlar bag(s) free of condensation..... | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
|-----------------------------------------|--------------------------|--------------------------|-------------------------------------|

## **CONTAINER TYPE:**

Solid: ☐ 4ozCGJ ☐ 8ozCGJ ☐ 16ozCGJ ☐ Sleeve (\_\_\_\_) ☐ EnCores® ☐ TerraCores® ☒ 2oz 189J

Aqueous: ☐ VOA ☐ VOA<sub>h</sub> ☐ VOA<sub>na2</sub> ☐ 125AGB ☐ 125AGB<sub>h</sub> ☐ 125AGB<sub>p</sub> ☐ 1AGB ☐ 1AGB<sub>na2</sub> ☐ 1AGB<sub>s</sub>

☐ 500AGB ☐ 500AGJ ☐ 500AGJ<sub>s</sub> ☐ 250AGB ☐ 250CGB ☐ 250CGB<sub>s</sub> ☐ 1PB ☐ 1PB<sub>na</sub> ☐ 500PB

☐ 250PB ☐ 250PB<sub>n</sub> ☐ 125PB ☐ 125PB<sub>znna</sub> ☐ 100PJ ☐ 100PJ<sub>na2</sub> ☐ \_\_\_\_\_ ☐ \_\_\_\_\_ ☐ \_\_\_\_\_

Air: ☐ Tedlar® ☐ Canister Other: ☐ \_\_\_\_\_ Trip Blank Lot#: \_\_\_\_\_ Labeled/Checked by: SR

Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelope Reviewed by: 659

Preservative: h: HCL n: HNO<sub>3</sub> na<sub>2</sub>: Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub> na: NaOH p: H<sub>3</sub>PO<sub>4</sub> s: H<sub>2</sub>SO<sub>4</sub> u: Ultra-pure znna: ZnAc<sub>2</sub>+NaOH f: Filtered Scanned by: 659

\* No Collection date per label