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TECHNICAL MEMORANDUM EXCAVATION AND HANDLING OF SOLID WASTE MANAGEMENT UNIT 9 (SWMU 9) PESTICIDE CONTROL AREA R-150 TANK AREA SOILS EXCEEDING LAND DISPOSAL RESTRICTIONS NSA CRANE IN
7/1/2008
TETRA TECH

TECHNICAL MEMORANDUM

DATE: July 1, 2008

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Project File – CTO 42
Project File – CTO 467

SUBJECT: Excavation and Handling of SWMU 9 (Pesticide Control Area / R-150 Tank Area) Soils Exceeding Land Disposal Restrictions

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The purpose of this Technical Memorandum is to identify the extent of soils exceeding land disposal restrictions (LDRs) within the limits of the SWMU 9 excavation area near former Building 55. The contents of this Technical Memorandum should be used in conjunction with the information and requirements presented in the December 2007 SWMU 9 Interim Measures Work Plan (IMWP). Excavation, handling, characterization, and disposal of the soils identified in this Technical Memorandum should be performed according to the requirements presented in the SWMU 9 IMWP.

Identification of LDR Soils

A portion of the soil delineated for excavation from the SWMU 9 former Building 55 area is being evaluated as potentially exceeding LDRs because the soil from this area has been identified as a listed hazardous waste. The results of this evaluation are intended to identify any soil within the excavation requiring treatment prior to disposal

within a permitted hazardous waste landfill. The following describes the soil evaluation for the SWMU 9 former Building 55 excavation area.

Three areas within the limits of SWMU 9 (former fire training area, former Building 55 area, and Building 150 area) are being excavated to reduce contaminant concentrations to acceptable risk levels. The former Building 55 area was contaminated from releases of listed wastes (i.e., pesticides). Soil waste from this area must be handled as hazardous waste as long as the soil "contains" materials or contaminants that the United States Environmental Protection Agency (EPA) has identified as hazardous at concentrations that exceed the established risk-based criteria for determining whether soils contain hazardous waste. In addition to the EPA determination, the Indiana Department of Environmental Management (IDEM) has established risk-based criteria (IDEM, 2001) for determining when soil "contains" a hazardous waste. This risk based criteria, presented in Appendix 1 of the IDEM Risk Integrated System of Closure (RISC) Technical Resource Guidance document, presents the January 31, 2006 updated IDEM Direct Contact Residential and Industrial Closure Level criterion. Using this criterion, IDEM provides a "contained-in" determination as to whether the soil to be excavated from the former Building 55 area of SWMU 9 contains hazardous waste. For example, soils with contaminant concentrations below the IDEM Direct Contact Residential Closure Levels are not deemed to "contain" hazardous waste. Soils with contaminant concentrations above the IDEM Direct Contact Residential Closure Levels and below Industrial Direct Contact Closure Levels are deemed not to "contain" hazardous waste when disposed within a Resource Recovery and Recovery Act (RCRA) subtitle C (hazardous) or RCRA subtitle D (non-hazardous) landfill. Soils with contaminant concentrations that exceed the Industrial Direct Contact Closure Level criteria are considered to "contain" hazardous waste and are subject to hazardous waste LDR requirements.

Based on the contaminant concentrations within the soils being excavated from the SWMU 9 former Building 55 area, IDEM has provided a "contained-in" determination identifying five locations that exceed the IDEM Industrial Direct Contact Closure levels and are considered hazardous waste. Therefore, the soil found at these locations must also be evaluated against the LDR criteria. The results of the LDR evaluation indicates that the soil at the five IDEM identified locations, exceed applicable LDRs for one or more hazardous constituents. Therefore, the soils at these five locations will be "surgically" removed and segregated from soils that are determined to be non-hazardous waste by the IDEM "contained-in" determination.

Table 1 presents the in-place analytical data for the soil that is to be removed from the SWMU 9 former Building 55 area (i.e., analytical results from the soil samples collected from within the proposed limits of excavation). Only the pesticide results are presented in Table 1 because pesticides are the only compounds that present unacceptable risks within the excavation area. Table 1 also identifies the IDEM Industrial Default Closure Level criteria and compares these values to the analytical results. The highlighted data in Table 1 identifies contaminants with concentrations greater than IDEM Industrial Default Closure Level criteria. The soils

associated with these sampling locations are considered hazardous and must be evaluated for LDRs. The evaluation process discussed above and provided in Table 1 was performed in conjunction with the IDEM.

Table 2 presents the in-place analytical data for the samples with one or more constituents whose concentrations are greater than IDEM Industrial Default Closure Level criteria (i.e., the five areas identified by IDEM to exceed the "contained-in" determination levels). All of the analytical results from these samples are compared to the "Nonwastewater" Universal Treatment Standards (UTSs) listed in 40 Code of Federal Regulations (CFR) Section 268.48 to determine if the soils associated with these samples are restricted from land disposal. In accordance with 40 CFR Section 268.48, any material exceeding these standards must be treated prior to land disposal. However, 40 CFR Section 268.49 identifies alternative treatment standards for nonwastewater (soils), which allows initial (in place) contaminant concentrations to be compared to a ten times the UTS criteria. Table 2 presents a comparison of the UTSs and the ten times UTSs criteria to the analytical data from SWMU 9 which exceeds the IDEM Industrial Direct Contact Closure Level criteria. Soils containing contaminant concentrations greater than ten times UTSs will require treatment prior to disposal within a permitted hazardous waste landfill.

As identified in Table 2, the locations that contain soils with contaminants that exceeds the IDEM Industrial Default Closure Level criteria and the ten times UTS include:

- 09SB018 (0 to 2 foot below ground surface (bgs) interval)
- 09SB026 (0 to 2 foot bgs interval)
- 09SB046 (0 to 2 foot bgs interval)
- 09SB067 (0 to 2 foot bgs interval)
- 09SB070 (0 to 2 foot bgs interval)

These locations and the estimated limits of soil that exceed the IDEM Industrial Default Closure Level criteria and the ten times UTS (LDR soils) are identified in Figure 1. As indicated in Table 2 and on Figure 1 the LDR soil is found form the 0 to 2 foot bgs interval.

Additional Analytical Data

Following the mapping of the sample locations identified as containing LDR soil (Figure 1), it was determined that additional soil samples were needed to more accurately define the LDR soil limits identified using the available data (data presented in Table 1). In order to more accurately delineate the LDR soil limits, surface soil samples (0 to 2 foot bgs interval) were collected from 31 sample locations (09SB109 through 09SB139) on April 7th and 8th, 2008 (Figure 2). These sample locations are identified on Figure 2. Samples were only collected from the 0 to 2 foot bgs interval since previous sampling indicated that at depth soil (greater than 2 feet bgs) were not LDR

soils. The laboratory was instructed to analyze the first set of collected samples (09SB109 through 09SB124) and to wait on the analysis of the additional samples until directed. This analysis approach was utilized to avoid unneeded analytical work (i.e., if samples located closer to the center of the grid were determined to be non-LDR soils, the LDR soils would be bound, and there would be no need to analyze outer grid samples). As a result of this approach, the samples collected at sampling locations 09SB129 and 09SB135 were not analyzed. The analytical results for the April 2008 sampling event, along with the data validation letters, are presented in Attachment B.

The soil results presented in Attachment B were evaluated using the process defined above to determine if the LDR soil limits shown in Figure 1 need to be updated. The data evaluation is provided in Tables 3 and 4. The results of the evaluation indicated that the LDR soil limits defined in Figure 1 require modification. The April 2008 sampling locations that contain soil with contaminants that exceeds the IDEM Industrial Default Closure Level criteria and the ten times UTS include:

- 09SB110 (0 to 2 foot bgs interval)
- 09SB111 (0 to 2 foot bgs interval)
- 09SB114 (0 to 2 foot bgs interval)
- 09SB115 (0 to 2 foot bgs interval)
- 09SB116 (0 to 2 foot bgs interval)
- 09SB121 (0 to 2 foot bgs interval)
- 09SB122 (0 to 2 foot bgs interval)
- 09SB123 (0 to 2 foot bgs interval)
- 09SB125 (0 to 2 foot bgs interval)
- 09SB126 (0 to 2 foot bgs interval)
- 09SB127 (0 to 2 foot bgs interval)
- 09SB130 (0 to 2 foot bgs interval)
- 09SB131 (0 to 2 foot bgs interval)
- 09SB133 (0 to 2 foot bgs interval)
- 09SB137 (0 to 2 foot bgs interval)

In addition to these sample locations, sample locations 09SB119, 09SB120, 09SB124, SB09128, and 09SB136 had a non-detect of toxaphene at a detection limit that exceeded the IDEM Industrial Default Closure Level. Although other sample locations with non-detect concentrations with detection limits exceeding IDEM Industrial Default Closure Levels were taken to the 10 times UTS evaluation, these locations were not compared to 10 times UTS since toxaphene was not detected in any other sample collected at SWMU 9. The elevated detection

limits in these samples are due to laboratory dilutions that were required due to high concentrations of other parameters within the same sample.

Delineation of LDR Soils

Figure 1 presents the delineation of soil exceeding the LDRs (LDR soil) that fall within the excavation limits near the SWMU 9 former Building 55 area based on data presented in the SWMU 9 IMWP. The limits of the LDR soil in Figure 1 have been established using the results of the evaluation performed in Tables 1 and 2 (discussed above) as well as the results from sample locations that surround these LDR soils that have been determined not to be restricted from land disposal without treatment (non-LDR soils). The LDR soil limits in Figure 1 were then updated using the April 2008 data and the evaluations preformed in Tables 3 and 4. The revised LDR soil limits are presented on Figure 3. The physical limits of LDR soils presented on Figure 3 were established based on the sample locations that were determined to be LDR soil locations, the non-LDR soil locations, and the limits of excavation (i.e., the limits of LDR soil were determined by connecting the edge of excavation lines and the non-LDR soil sampling locations).

For the purposes of this Technical Memorandum, the LDR soil volume was calculated using the limits identified on Figure 3 (see Attachment 1 - LDR soil volume calculations). This LDR soil requires treatment prior to disposal at a land disposal facility.

Volume of LDR Soil = 380 cubic yards

During excavation the contractor must segregate (stockpile / containerize separately) the LDR soil from the non-LDR soil for transportation to a permitted hazardous waste treatment / disposal facility.

Excavation, handling, treatment, and disposal standards and specifications for contaminated soils are presented in the SWMU 9 IMWP. These standards and specifications, and any additional standards and specifications, imposed by the selected treatment / disposal facility must be followed.

Revision to Excavation Limits

In addition to using the analytical data from the April 2008 sampling event to define the extent of LDR soil within the excavated soil, the data was used to redefine the excavation limits that were reported in the SWMU 9 IMWP. Using the April 2008 sampling data the northwestern corner of the excavation was moved in toward April 2008 sampling location 09SB130. The revised limits of excavation are presented on Figure 3 along with the revised excavation coordinates.

Revised Excavation Volume for the Former Building 55 Area = 820 cubic yards

References

IDEM (Indiana Department of Environmental Management), 2001. IDEM Technical Resource Guidance Document (Technical Guide). http://www.in.gov/idem/programs/land/risc/tech_guide/index.html. February 15.

TABLES

TABLE 1

COMPARISON OF EXCAVATED SOIL TO IDEM INDUSTRIAL DEFAULT CLOSURE LEVEL CRITERIA
(IDEM INDUSTRIAL DIRCT CONTACT CLOSURE LEVELS)
SWMU 9 - PESTICIDE CONTROL AREA / R-150 TANK AREA
NAVAL SURFACE WARFARE CENTER CRANE
CRANE, INDIANA

LOCATION	IDEM	09SB018	09SB018	09SB018	09SB019	09SB019	09SB019	09SB020
SAMPLE NUMBER	Industrial	09SS180002	09SB180204	09SB180406	09SS190002	09SB190204	09SB190406	09SS200002
TOP DEPTH (ft bgs)	Default	0	2	4	0	2	4	0
BOTTOM DEPTH (ft bgs)	Closure	2	4	6	2	4	6	2
SAMPLE DATE	Level	3/4/2005	5/9/2005	5/9/2005	5/9/2005	5/9/2005	5/9/2005	5/9/2005
Pesticides (µg/kg)								
4,4'-DDD	120,000	22,000 J	1,000	48	820 J	8.7	99	1700
4,4'-DDE	86,000	**130,000**	87	73	3,100 J	17	300 J	670
4,4'-DDT	86,000	**2,200,000**	500	2,200	27,000 J	380	7100	3500
Aldrin	800	**1,600 U**	1.56 U	1.6 U	0.778 UJ	0.804 U	3.89 U	6.9 J
alpha-BHC	4,000	1,600 U	20	1.6 U	0.778 UJ	0.804 U	3.89 U	3.97 U
alpha-Chlordane	38,000	**170,000**	52	7.7	700 J	3.1	25	140
beta-BHC	12,000	1,600 U	1.56 U	1.6 U	0.778 UJ	0.804 U	3.89 U	5.6 J
delta-BHC	3,400	1,600 U	1.56 U	1.6 U	0.778 UJ	0.804 U	3.89 U	3.97 U
Dieldrin	860	**3300 U**	3.24 U	3.32 U	7 J	1.67 U	16 J	420
Endosulfan I	2,500,000	1,600 U	1.56 U	1.6 U	0.778 UJ	0.804 U	3.89 U	3.97 UJ
Endosulfan II	2,900,000	3,300 U	3.24 U	3.32 U	1.62 UJ	1.67 U	8.08 U	8.25 U
Endosulfan Sulfate	NC	3,300 U	3.24 U	3.32 U	1.62 UJ	1.67 U	8.08 U	8.25 U
Endrin	150,000	3,300 U	3.24 U	3.32 U	1.62 UJ	1.67 U	8.08 U	8.25 U
Endrin Aldehyde	150,000	3,300 U	3.24 U	3.32 U	1.62 UJ	1.67 U	8.08 U	8.25 U
Endrin Ketone	140,000	3,300 U	3.24 U	3.32 U	1.62 UJ	1.67 U	8.08 U	8.25 U
gamma-BHC (Lindane)	19,000	1,600 U	1.56 U	1.6 U	0.778 UJ	0.804 U	3.89 U	3.97 U
gamma-Chlordane	68,000	**210,000**	63	8.6	700 J	2.7	25	150
Heptachlor	2,900	**48,000**	1.56 U	1.6 U	3.4 J	0.804 U	3.89 U	3.97 U
Heptachlor Epoxide	1,500	**1,600 U**	1.56 U	1.6 U	15 J	0.804 U	3.89 U	3.97 U
Methoxychlor	2,500,000	16,000 U	15.6 U	16 U	7.78 UJ	8.04 U	38.9 U	39.7 U
Toxaphene	12,000	**41,000 U**	40.8 U	41.8 U	20.4 UJ	21 U	102 U	104 U

µg/kg	Micrograms per kilogram.
ft bgs	Feet below ground surface.
IDEM	Indiana Department of Environmental Management.
J	Estimated Value.
NC	No Criteria for this compound.
R	Rejected Data
U	Non-Detect at the concentration indicated.

Indicates that the results for this constituent exceeds the IDEM Industrial Default Criteria.

TABLE 1

COMPARISON OF EXCAVATED SOIL TO IDEM INDUSTRIAL DEFAULT CLOSURE LEVEL CRITERIA
(IDEM INDUSTRIAL DIRCT CONTACT CLOSURE LEVELS)
SWMU 9 - PESTICIDE CONTROL AREA / R-150 TANK AREA
NAVAL SURFACE WARFARE CENTER CRANE
CRANE, INDIANA

LOCATION	IDEM	09SB021	09SB022	09SB023/TW004	09SB024/TW006	09SB024/TW006	09SB024/TW006	09SB025
SAMPLE NUMBER	Industrial	09SS210002	09SS220002	09SS230002	09SS240002	09SB240204	09SB240406	09SS250002
TOP DEPTH (ft bgs)	Default	0	0	0	0	2	4	0
BOTTOM DEPTH (ft bgs)	Closure	2	2	2	2	4	6	2
SAMPLE DATE	Level	5/9/2005	5/9/2005	5/9/2005	5/9/2005	5/9/2005	5/9/2005	5/9/2005
Pesticides (µg/kg)								
4,4'-DDD	120,000	220	65	1.63 U	1.59 U	40 J	58	19 J
4,4'-DDE	86,000	45	10	1.63 U	70	64 J	1,800	400
4,4'-DDT	86,000	180	66	1.63 U	350	3.09 U	8,600	990
Aldrin	800	0.794 U	0.812 U	0.784 U	0.767 U	1.49 U	4.08 U	0.703 U
alpha-BHC	4,000	0.794 U	0.812 U	0.784 U	0.767 U	150	4.08 U	0.703 U
alpha-Chlordane	38,000	74	19	0.784 U	7.2 J	1.49 U	93	800
beta-BHC	12,000	2 J	0.812 U	0.784 U	0.767 U	1.49 U	4.08 U	0.703 U
delta-BHC	3,400	0.794 U	0.812 U	0.784 U	0.767 U	1.49 U	4.08 U	0.703 U
Dieldrin	860	12	1.69 U	1.63 U	1.59 U	3.09 U	8.48 U	17
Endosulfan I	2,500,000	0.794 U	0.812 U	0.784 U	0.767 U	1.49 U	4.08 U	0.703 U
Endosulfan II	2,900,000	1.65 U	1.69 U	1.63 U	1.59 U	3.09 U	8.48 U	1.46 U
Endosulfan Sulfate	NC	1.65 U	1.69 U	1.63 U	1.59 U	3.09 U	8.48 U	1.46 U
Endrin	150,000	1.65 U	1.69 U	1.63 U	1.59 U	3.09 U	8.48 U	1.46 U
Endrin Aldehyde	150,000	1.65 U	1.69 U	1.63 U	1.59 U	3.09 U	8.48 U	1.46 U
Endrin Ketone	140,000	1.65 U	1.69 U	1.63 U	1.59 U	3.09 U	8.48 U	1.46 U
gamma-BHC (Lindane)	19,000	0.794 U	0.812 U	0.784 U	0.767 U	1.49 U	4.08 U	0.703 U
gamma-Chlordane	68,000	50	11	0.784 U	16 J	1.49 U	98	760
Heptachlor	2,900	0.794 U	0.812 U	0.784 U	0.767 U	1.49 U	4.08 U	59
Heptachlor Epoxide	1,500	11 J	5.7 J	0.784 U	0.767 U	1.49 U	28	94
Methoxychlor	2,500,000	7.94 U	8.12 U	7.84 U	7.67 U	14.9 U	40.8 U	7.03 U
Toxaphene	12,000	20.8 U	21.2 U	20.5 U	20 U	38.9 U	107 U	18.4 U

µg/kg	Micrograms per kilogram.
ft bgs	Feet below ground surface.
IDEM	Indiana Department of Environmental Management.
J	Estimated Value.
NC	No Criteria for this compound.
R	Rejected Data
U	Non-Detect at the concentration indicated.

Indicates that the results for this constituent exceeds the IDEM Industrial Default Criteria.

TABLE 1

COMPARISON OF EXCAVATED SOIL TO IDEM INDUSTRIAL DEFAULT CLOSURE LEVEL CRITERIA
(IDEM INDUSTRIAL DIRCT CONTACT CLOSURE LEVELS)
SWMU 9 - PESTICIDE CONTROL AREA / R-150 TANK AREA
NAVAL SURFACE WARFARE CENTER CRANE
CRANE, INDIANA

LOCATION	IDEM	09SB026	09SB027/TW005	09SB030	09SB044	09SB046	09SB047
SAMPLE NUMBER	Industrial	09SS260002	09SS270002	09SS300002	09SS440002	09SS460002	09SS470002
TOP DEPTH (ft bgs)	Default	0	0	0	0	0	0
BOTTOM DEPTH (ft bgs)	Closure	2	2	2	2	2	2
SAMPLE DATE	Level	5/9/2005	5/9/2005	5/10/2005	10/3/2005	10/3/2005	9/30/2005
Pesticides (µg/kg)							
4,4'-DDD	120,000	1,800 J	83	1.77 U	1,500 J	1,034 U	120
4,4'-DDE	86,000	30,000 J	80	1.77 U	2,200	1,900 J	300
4,4'-DDT	86,000	**110,000 J**	47	1.77 U	570	**130,000 J**	320
Aldrin	800	93.8 U	0.742 U	0.852 U	0.806 U	498 U	0.799 UJ
alpha-BHC	4,000	93.8 U	0.742 U	0.852 U	0.806 U	498 U	0.799 UJ
alpha-Chlordane	38,000	1000 J	170	0.852 U	900	498 U	0.799 U
beta-BHC	12,000	93.8 U	0.742 U	0.852 U	0.806 U	498 U	0.799 U
delta-BHC	3,400	93.8 U	0.742 U	0.852 U	0.806 U	498 U	0.799 UJ
Dieldrin	860	210 J	1.54 U	1.77 U	1.67 U	**1,034 U**	6.6
Endosulfan I	2,500,000	93.8 U	0.742 U	0.852 U	0.806 U	498 U	0.799 U
Endosulfan II	2,900,000	195 U	1.54 U	1.77 U	1.67 U	1,034 U	1.66 U
Endosulfan Sulfate	NC	195 U	1.54 U	1.77 U	1.67 U	1,034 U	1.66 UJ
Endrin	150,000	195 U	1.54 U	1.77 U	1.67 U	1,034 U	1.66 U
Endrin Aldehyde	150,000	195 U	1.54 U	1.77 U	1.67 U	1,034 U	1.66 U
Endrin Ketone	140,000	195 U	1.54 U	1.77 U	1.67 U	1,034 U	1.66 UJ
gamma-BHC (Lindane)	19,000	93.8 U	0.742 U	0.852 U	0.806 U	498 U	0.799 UJ
gamma-Chlordane	68,000	1,100 J	190	0.852 U	820	498 U	0.799 U
Heptachlor	2,900	93.8 U	0.742 U	0.852 U	0.806 U	498 U	0.799 UJ
Heptachlor Epoxide	1,500	93.8 U	0.742 U	0.852 U	66	498 U	0.799 U
Methoxychlor	2,500,000	938 U	7.42 U	8.52 U	8.06 U	4,979 U	7.99 U
Toxaphene	12,000	2453 U	19.4 U	22.3 U	105 U	65,100 U	104 U

µg/kg	Micrograms per kilogram.
ft bgs	Feet below ground surface.
IDEM	Indiana Department of Environmental Management.
J	Estimated Value.
NC	No Criteria for this compound.
R	Rejected Data
U	Non-Detect at the concentration indicated.

Indicates that the results for this constituent exceeds the IDEM Industrial Default Criteria.

TABLE 1

COMPARISON OF EXCAVATED SOIL TO IDEM INDUSTRIAL DEFAULT CLOSURE LEVEL CRITERIA
(IDEM INDUSTRIAL DIRCT CONTACT CLOSURE LEVELS)
SWMU 9 - PESTICIDE CONTROL AREA / R-150 TANK AREA
NAVAL SURFACE WARFARE CENTER CRANE
CRANE, INDIANA

LOCATION SAMPLE NUMBER TOP DEPTH (ft bgs) BOTTOM DEPTH (ft bgs) SAMPLE DATE	IDEM Industrial Default Closure Level	09SB066 09SS660002 0 2 10/21/2006	09SB067 09SS670002 0 2 10/21/2006	09SB068 09SS680002 0 2 10/22/2006	09SB069 09SS690002 0 2 10/22/2006	09SB070 09SS700002 0 2 10/22/2006
Pesticides (µg/kg)						
4,4'-DDD	120,000	290 J	160 J	1.7 UJ	170 J	5,400 J
4,4'-DDE	86,000	730 J	1,500 J	5.9 J	180	3,700 J
4,4'-DDT	86,000	2,500 J	2,000 J	17 J	6400	**190,000**
Aldrin	800	0.75 UR	0.72 UJ	0.84 UJ	42 U	84 U
alpha-BHC	4,000	0.75 UR	0.72 UJ	0.84 UJ	42 U	84 U
alpha-Chlordane	38,000	220 J	790 J	0.84 UJ	78 J	360 J
beta-BHC	12,000	0.75 UR	0.72 UJ	0.84 UJ	42 U	84 U
delta-BHC	3,400	0.75 UR	3.0 R	0.84 UJ	42 U	84 U
Dieldrin	860	1.6 UR	**6,000 J**	1.7 UJ	360	**4,200 J**
Endosulfan I	2,500,000	0.75 UR	0.72 UJ	0.84 UJ	42 U	84 U
Endosulfan II	2,900,000	1.6 UR	1.5 UJ	1.7 UJ	86 U	170 U
Endosulfan Sulfate	NC	1.6 UR	1.5 UJ	1.7 UJ	86 U	470 R
Endrin	150,000	1.6 UR	1.5 UJ	1.7 UJ	86 U	170 U
Endrin Aldehyde	150,000	1.6 UR	1.5 UJ	1.7 UJ	86 U	170 U
Endrin Ketone	140,000	1.6 UR	1.5 UJ	1.7 UJ	86 U	170 U
gamma-BHC (Lindane)	19,000	0.75 UR	0.72 UJ	0.84 UJ	42 U	84 U
gamma-Chlordane	68,000	260 J	860 J	0.84 UJ	73 J	540 J
Heptachlor	2,900	0.75 UR	0.72 UJ	0.84 UJ	42 U	84 U
Heptachlor Epoxide	1,500	0.75 UR	0.72 UJ	0.84 UJ	42 U	84 U
Methoxychlor	2,500,000	7.5 UR	7.2 UJ	8.4 UJ	420 U	840 U
Toxaphene	12,000	98 UR	94 UJ	110 UJ	5400 U	11,000 U

µg/kg	Micrograms per kilogram.
ft bgs	Feet below ground surface.
IDEM	Indiana Department of Environmental Management.
J	Estimated Value.
NC	No Criteria for this compound.
R	Rejected Data
U	Non-Detect at the concentration indicated.

Indicates that the results for this constituent exceeds the IDEM Industrial Default Criteria.

TABLE 2

COMPARISON OF IDEM INDUSTRIAL DEFAULT CLOSURE LEVEL CRITERIA TO THE UNIVERSIAL TREATMENT STANDARDS
SWMU 9 - PESITCIDE CONTROL AREA / R-150 TANK AREA
NAVAL SURFACE WARFARE CENTER CRANE
CRANE, INDIANA

LOCATION SAMPLE NUMBER TOP DEPTH (ft bgs) BOTTOM DEPTH (ft bgs) SAMPLE DATE	Universal Treatment Standards	10 Times Universal Treatment Standards	09SB018 09SS180002 0 2 3/4/2005	09SB026 09SS260002 0 2 5/9/2005	09SB046 09SS460002 0 2 10/3/2005	09SB067 09SS670002 0 2 10/21/2006	09SB070 09SS700002 0 2 10/22/2006
Pesticides (µg/kg)							
4,4'-DDD	87	870	22,000 J	1,800 J	1,034 U	160 J	5,400 J
4,4'-DDE	87	870	130,000	30,000 J	1,900 J	1,500 J	3,700 J
4,4'-DDT	87	870	2,200,000	110,000 J	130,000 J	2,000 J	190,000
Aldrin	66	660	1,600 U	93.8 U	498 U	0.72 UJ	84 U
alpha-BHC	66	660	1,600 U	93.8 U	498 U	0.72 UJ	84 U
alpha-Chlordane	260	2,600	170,000	1000 J	498 U	790 J	360 J
beta-BHC	66	660	1,600 U	93.8 U	498 U	0.72 UJ	84 U
delta-BHC	66	660	1,600 U	93.8 U	498 U	3.0 R	84 U
Dieldrin	130	1,300	3,300 U	210 J	1,034 U	6,000 J	4,200 J
Endosulfan I	66	660	1,600 U	93.8 U	498 U	0.72 UJ	84 U
Endosulfan II	130	1,300	3,300 U	195 U	1,034 U	1.5 UJ	170 U
Endosulfan Sulfate	130	1,300	3,300 U	195 U	1,034 U	1.5 UJ	470 R
Endrin	130	1,300	3,300 U	195 U	1,034 U	1.5 UJ	170 U
Endrin Aldehyde	130	1,300	3,300 U	195 U	1,034 U	1.5 UJ	170 U
Endrin Ketone	NA	NA	3,300 U	195 U	1,034 U	1.5 UJ	170 U
gamma-BHC (Lindane)	66	660	1,600 U	93.8 U	498 U	0.72 UJ	84 U
gamma-Chlordane	260	2,600	210,000	1,100 J	498 U	860 J	540 J
Heptachlor	66	660	48,000	93.8 U	498 U	0.72 UJ	84 U
Heptachlor Epoxide	66	660	1,600 U	93.8 U	498 U	0.72 UJ	84 U
Methoxychlor	180	1,800	16,000 U	938 U	4,979 U	7.2 UJ	840 U
Toxaphene	2,600	26,000	41,000 U	2,453 U	65,100 U	94 UJ	11,000 U

µg/kg	Micrograms per kilogram.
ft bgs	Feet below ground surface.
J	Estimated Value.
NA	Universal Treatment Standards are not available for this compound.
R	Rejected Data.
U	Non-Detect at the concentration indicated.

Indicates that the reported concentration is greater than 10 times the Universal Treatment Standard.

TABLE 3

COMPARISON OF APRIL 2008 DATA TO IDEM INDUSTRIAL DEFAULT CLOSURE LEVEL CRITERIA
(IDEM INDUSTRIAL DIRECT CONTACT CLOSURE LEVELS)
SWMU 9 - PESTICIDE CONTROL AREA / R-150 TANK AREA
NAVAL SURFACE WARFARE CENTER
CRANE, INDIANA

LOCATION	IDEM	09SB109		09SB110		09SB111		09SB112		09SB113		09SB114		09SB115	
SAMPLE NUMBER	Industrial	09SS-109-0002		09SS-110-0002		09SS-111-0002		09SS-112-0002		09SS-113-0002		09SS-114-0002		09SS-115-0002	
TOP DEPTH (ft bgs)	Default	0		0		0		0		0		0		0	
BOTTOM DEPTH (ft bgs)	Closure	2		2		2		2		2		2		2	
SAMPLE DATE	Level	4/7/2008		4/7/2008		4/7/2008		4/7/2008		4/7/2008		4/7/2008		4/7/2008	
Pesticides/PCBs (ug/kg)															
4,4'-DDD	120,000	140	U	14000		220000	UJ	160	U	200	U	93000	U	35000	U
4,4'-DDE	86,000	590		20000		220000	UJ	940		200	U	93000	U	35000	U
4,4'-DDT	86,000	950		22000		1700000	J	4700	J	1200		680000		520000	
ALDRIN	800	70.0	U	300	U	110000	UJ	78.0	U	95.0	U	45000	U	17000	U
ALPHA-BHC	4,000	70.0	U	300	U	110000	UJ	78.0	U	95.0	U	45000	U	17000	U
ALPHA-CHLORDANE	38,000	70.0	U	520	J	110000	UJ	78.0	U	95.0	U	45000	U	17000	U
BETA-BHC	12,000	70.0	U	300	U	110000	UJ	78.0	U	95.0	U	45000	U	17000	U
DELTA-BHC	3,400	70.0	UJ	300	UJ	110000	UJ	78.0	UJ	95.0	UJ	45000	UJ	17000	UJ
DIELDRIN	860	140	U	12000		220000	UJ	160	U	200	U	93000	U	35000	U
ENDOSULFAN I	2,500,000	70.0	U	300	U	110000	UJ	78.0	U	95.0	U	45000	U	17000	U
ENDOSULFAN II	2,900,000	140	U	630	U	220000	UJ	160	U	200	U	93000	U	35000	U
ENDOSULFAN SULFATE	NC	140	U	630	U	220000	UJ	160	U	200	U	93000	U	35000	U
ENDRIN	150,000	140	U	630	U	220000	UJ	160	U	200	U	93000	U	35000	U
ENDRIN ALDEHYDE	150,000	140	U	630	U	220000	UJ	160	U	200	U	93000	U	35000	U
ENDRIN KETONE	140,000	140	U	630	U	220000	UJ	160	U	200	U	93000	U	35000	U
GAMMA-BHC (LINDANE)	19,000	70.0	U	300	U	110000	UJ	78.0	U	95.0	U	45000	U	17000	U
GAMMA-CHLORDANE	68,000	70.0	U	1100	J	110000	UJ	78.0	U	95.0	U	45000	U	17000	U
HEPTACHLOR	2,900	70.0	U	300	U	110000	UJ	78.0	U	95.0	U	45000	U	17000	U
HEPTACHLOR EPOXIDE	1,500	70.0	U	300	U	110000	UJ	78.0	U	95.0	U	45000	U	17000	U
METHOXYCHLOR	2,500,000	700	U	3000	U	1100000	UJ	780	U	950	U	450000	U	170000	U
TOXAPHENE	12,000	9100	U	40000	U	14000000	UJ	10000	U	12000	U	5800000	U	2200000	U

ug/kg	Micrograms per Kilogram
ft bgs	Feet below ground surfce
IDEM	Indiana Department of environmental Management
J	Estimated Value.
NC	No criteria for this Compound.
U	Non-detect at the concentraiton idicated.

Indicates that the results for this constituent exceeds the IDEM Industrial Default Criteria.

TABLE 3

COMPARISON OF APRIL 2008 DATA TO IDEM INDUSTRIAL DEFAULT CLOSURE LEVEL CRITERIA
(IDEM INDUSTRIAL DIRECT CONTACT CLOSURE LEVELS)
SWMU 9 - PESTICIDE CONTROL AREA / R-150 TANK AREA
NAVAL SURFACE WARFARE CENTER
CRANE, INDIANA

LOCATION	IDEM	09SB116		09SB117		09SB118		09SB119		09SB120		09SB121		09SB122	
SAMPLE NUMBER	Industrial	09SS-116-0002		09SS-117-0002		09SS-118-0002		09SS-119-0002		09SS-120-0002		09SS-121-0002		09SS-122-0002	
TOP DEPTH (ft bgs)	Default	0		0		0		0		0		0		0	
BOTTOM DEPTH (ft bgs)	Closure	2		2		2		2		2		2		2	
SAMPLE DATE	Level	4/7/2008		4/7/2008		4/7/2008		4/8/2008		4/8/2008		4/8/2008		4/8/2008	
Pesticides/PCBs (ug/kg)															
4,4'-DDD	120,000	1300	UJ	3.7	UJ	14.0	UJ	360	U	320	U	32000	U	1700	U
4,4'-DDE	86,000	1300	UJ	16.0	J	92.0	J	3200		2000		32000	U	6000	
4,4'-DDT	86,000	11000	J	16.0	J	70.0	J	8800		8500		410000		56000	
ALDRIN	800	620	UJ	1.8	UJ	6.8	UJ	170	U	160	U	16000	U	840	U
ALPHA-BHC	4,000	620	UJ	1.8	UJ	6.8	UJ	170	U	160	U	16000	U	840	U
ALPHA-CHLORDANE	38,000	620	UJ	1.8	UJ	6.8	UJ	210	J	340		16000	U	840	U
BETA-BHC	12,000	620	UJ	1.8	UJ	6.8	UJ	170	U	160	U	16000	U	840	U
DELTA-BHC	3,400	620	UJ	1.8	UJ	6.8	UJ	170	UJ	160	UJ	16000	UJ	840	UJ
DIELDRIN	860	1300	UJ	3.7	UJ	14.0	UJ	360	U	320	U	32000	U	1700	U
ENDOSULFAN I	2,500,000	620	UJ	1.8	UJ	6.8	UJ	170	U	160	U	16000	U	840	U
ENDOSULFAN II	2,900,000	1300	UJ	3.7	UJ	14.0	UJ	360	U	320	U	32000	U	1700	U
ENDOSULFAN SULFATE	NC	1300	UJ	3.7	UJ	14.0	UJ	360	U	320	U	32000	U	1700	U
ENDRIN	150,000	1300	UJ	3.7	UJ	14.0	UJ	360	U	320	U	32000	U	1700	U
ENDRIN ALDEHYDE	150,000	1300	UJ	3.7	UJ	14.0	UJ	360	U	320	U	32000	U	1700	U
ENDRIN KETONE	140,000	1300	UJ	3.7	UJ	14.0	UJ	360	U	320	U	32000	U	1700	U
GAMMA-BHC (LINDANE)	19,000	620	UJ	1.8	UJ	6.8	UJ	170	U	160	U	16000	U	840	U
GAMMA-CHLORDANE	68,000	620	UJ	1.8	UJ	6.8	UJ	220	J	320		16000	U	840	U
HEPTACHLOR	2,900	620	UJ	1.8	UJ	6.8	UJ	170	U	160	U	16000	U	840	U
HEPTACHLOR EPOXIDE	1,500	620	UJ	1.8	UJ	6.8	UJ	170	U	160	U	16000	U	840	U
METHOXYCHLOR	2,500,000	6200	UJ	18.0	UJ	68.0	UJ	1700	U	1600	U	160000	U	8400	U
TOXAPHENE	12,000	81000	UJ	230	UJ	880	UJ	23000	U	20000	U	2000000	U	110000	U

ug/kg	Micrograms per Kilogram
ft bgs	Feet below ground surfce
IDEM	Indiana Department of environmental Management
J	Estimated Value.
NC	No criteria for this Compound.
U	Non-detect at the concentraiton idicated.

Indicates that the results for this constituent exceeds the IDEM Industrial Default Criteria.

TABLE 3

COMPARISON OF APRIL 2008 DATA TO IDEM INDUSTRIAL DEFAULT CLOSURE LEVEL CRITERIA
(IDEM INDUSTRIAL DIRECT CONTACT CLOSURE LEVELS)
SWMU 9 - PESTICIDE CONTROL AREA / R-150 TANK AREA
NAVAL SURFACE WARFARE CENTER
CRANE, INDIANA

LOCATION	IDEM	09SB123		09SB124		09SB125		09SB126		09SB127		09SB128		09SB130	
SAMPLE NUMBER	Industrial	09SS-123-0002		09SS-124-0002		09SS-125-0002		09SS-126-0002		09SS-127-0002		09SS-128-0002		09SS-130-0002	
TOP DEPTH (ft bgs)	Default	0		0		0		0		0		0		0	
BOTTOM DEPTH (ft bgs)	Closure	2		2		2		2		2		2		2	
SAMPLE DATE	Level	4/8/2008		4/8/2008		4/8/2008		4/8/2008		4/8/2008		4/8/2008		4/8/2008	
Pesticides/PCBs (ug/kg)															
4,4'-DDD	120,000	18000	U	800	U	1000	UJ	250000	UJ	23000	UJ	390	UJ	2200	UJ
4,4'-DDE	86,000	18000	U	10000		1300	J	250000	UJ	23000	UJ	1600	J	2300	J
4,4'-DDT	86,000	180000		29000		5600	J	860000	J	97000	J	3000	J	21000	J
ALDRIN	800	8500	U	380	U	490	UJ	120000	UJ	11000	UJ	190	UJ	1100	UJ
ALPHA-BHC	4,000	8500	U	380	U	490	UJ	120000	UJ	11000	UJ	190	UJ	1100	UJ
ALPHA-CHLORDANE	38,000	8500	U	680	J	15000	J	120000	UJ	35000	J	190	UJ	1600	J
BETA-BHC	12,000	8500	U	380	U	490	UJ	120000	UJ	11000	UJ	190	UJ	1100	UJ
DELTA-BHC	3,400	8500	UJ	380	UJ	490	UJ	120000	UJ	11000	UJ	190	UJ	1100	UJ
DIELDRIN	860	18000	U	800	U	1000	UJ	250000	UJ	23000	UJ	390	UJ	2200	UJ
ENDOSULFAN I	2,500,000	8500	U	380	U	490	UJ	120000	UJ	11000	UJ	190	UJ	1100	UJ
ENDOSULFAN II	2,900,000	18000	U	800	U	1000	UJ	250000	UJ	23000	UJ	390	UJ	2200	UJ
ENDOSULFAN SULFATE	NC	18000	U	800	U	1000	UJ	250000	UJ	23000	UJ	390	UJ	2200	UJ
ENDRIN	150,000	18000	U	800	U	1000	UJ	250000	UJ	23000	UJ	390	UJ	2200	UJ
ENDRIN ALDEHYDE	150,000	18000	U	800	U	1000	UJ	250000	UJ	23000	UJ	390	UJ	2200	UJ
ENDRIN KETONE	140,000	18000	U	800	U	1000	UJ	250000	UJ	23000	UJ	390	UJ	2200	UJ
GAMMA-BHC (LINDANE)	19,000	8500	U	380	U	590	J	120000	UJ	11000	UJ	190	UJ	1100	UJ
GAMMA-CHLORDANE	68,000	8500	U	750	J	15000	J	120000	UJ	36000	J	190	UJ	1500	J
HEPTACHLOR	2,900	8500	U	380	U	490	UJ	120000	UJ	11000	UJ	190	UJ	1100	UJ
HEPTACHLOR EPOXIDE	1,500	8500	U	380	U	720	J	120000	UJ	11000	UJ	190	UJ	1100	UJ
METHOXYCHLOR	2,500,000	85000	U	3800	U	4900	UJ	1200000	UJ	110000	UJ	1900	UJ	11000	UJ
TOXAPHENE	12,000	1100000	U	50000	U	64000	UJ	16000000	UJ	1400000	UJ	24000	UJ	140000	UJ

ug/kg	Micrograms per Kilogram
ft bgs	Feet below ground surfce
IDEM	Indiana Department of environmental Management
J	Estimated Value.
NC	No criteria for this Compound.
U	Non-detect at the concentraiton idicated.

Indicates that the results for this constituent exceeds the IDEM Industrial Default Criteria.

TABLE 3

COMPARISON OF APRIL 2008 DATA TO IDEM INDUSTRIAL DEFAULT CLOSURE LEVEL CRITERIA
(IDEM INDUSTRIAL DIRECT CONTACT CLOSURE LEVELS)
SWMU 9 - PESTICIDE CONTROL AREA / R-150 TANK AREA
NAVAL SURFACE WARFARE CENTER
CRANE, INDIANA

LOCATION	IDEM	09SB131		09SB132		09SB133		09SB134		09SB136		09SB137		09SB138	
SAMPLE NUMBER	Industrial	09SS-131-0002		09SS-132-0002		09SS-133-0002		09SS-134-0002		09SS-136-0002		09SS-137-0002		09SS-138-0002	
TOP DEPTH (ft bgs)	Default	0		0		0		0		0		0		0	
BOTTOM DEPTH (ft bgs)	Closure	2		2		2		2		2		2		2	
SAMPLE DATE	Level	4/8/2008		4/8/2008		4/8/2008		4/8/2008		4/8/2008		4/8/2008		4/8/2008	
Pesticides/PCBs (ug/kg)															
4,4'-DDD	120,000	9000	UJ	3.0	UJ	510000	UJ	69	UJ	240	UJ	480000	J	36	UJ
4,4'-DDE	86,000	9000	UJ	5.2	J	510000	UJ	370	J	240	UJ	220000	UJ	91	J
4,4'-DDT	86,000	32000	J	21	J	10000000	J	330	J	2100	J	1800000	J	150	J
ALDRIN	800	4300	UJ	1.4	UJ	240000	UJ	33	UJ	120	UJ	110000	UJ	18	UJ
ALPHA-BHC	4,000	4300	UJ	1.4	UJ	240000	UJ	33	UJ	120	UJ	110000	UJ	18	UJ
ALPHA-CHLORDANE	38,000	39000	J	1.4	UJ	240000	UJ	33	UJ	120	UJ	140000	J	18	UJ
BETA-BHC	12,000	4300	UJ	1.4	UJ	240000	UJ	33	UJ	120	UJ	110000	UJ	18	UJ
DELTA-BHC	3,400	4300	UJ	1.4	UJ	240000	UJ	33	UJ	120	UJ	110000	UJ	18	UJ
DIELDRIN	860	9000	UJ	3.0	UJ	510000	UJ	69	UJ	240	UJ	220000	UJ	36	UJ
ENDOSULFAN I	2,500,000	4300	UJ	1.4	UJ	240000	UJ	33	UJ	120	UJ	110000	UJ	18	UJ
ENDOSULFAN II	2,900,000	9000	UJ	3.0	UJ	510000	UJ	69	UJ	240	UJ	220000	UJ	36	UJ
ENDOSULFAN SULFATE	NC	9000	UJ	3.0	UJ	510000	UJ	69	UJ	240	UJ	220000	UJ	36	UJ
ENDRIN	150,000	9000	UJ	3.0	UJ	510000	UJ	69	UJ	240	UJ	220000	UJ	36	UJ
ENDRIN ALDEHYDE	150,000	9000	UJ	3.0	UJ	510000	UJ	69	UJ	240	UJ	220000	UJ	36	UJ
ENDRIN KETONE	140,000	9000	UJ	3.0	UJ	510000	UJ	69	UJ	240	UJ	220000	UJ	36	UJ
GAMMA-BHC (LINDANE)	19,000	4300	UJ	1.4	UJ	240000	UJ	33	UJ	120	UJ	110000	UJ	18	UJ
GAMMA-CHLORDANE	68,000	41000	J	1.4	UJ	240000	UJ	33	UJ	120	UJ	170000	J	18	UJ
HEPTACHLOR	2,900	4300	UJ	1.4	UJ	240000	UJ	33	UJ	120	UJ	110000	UJ	18	UJ
HEPTACHLOR EPOXIDE	1,500	4300	UJ	1.4	UJ	240000	UJ	33	UJ	120	UJ	110000	UJ	18	UJ
METHOXYCHLOR	2,500,000	43000	UJ	14	UJ	2400000	UJ	330	UJ	1200	UJ	1100000	UJ	180	UJ
TOXAPHENE	12,000	560000	UJ	190	UJ	32000000	UJ	4400	UJ	15000	UJ	14000000	UJ	2300	UJ

ug/kg	Micrograms per Kilogram
ft bgs	Feet below ground surfce
IDEM	Indiana Department of environmental Management
J	Estimated Value.
NC	No criteria for this Compound.
U	Non-detect at the concentraiton idicated.

Indicates that the results for this constituent exceeds the IDEM Industrial Default Criteria.

TABLE 3

COMPARISON OF APRIL 2008 DATA TO IDEM INDUSTRIAL DEFAULT CLOSURE LEVEL CRITERIA
(IDEM INDUSTRIAL DIRECT CONTACT CLOSURE LEVELS)
SWMU 9 - PESTICIDE CONTROL AREA / R-150 TANK AREA
NAVAL SURFACE WARFARE CENTER
CRANE, INDIANA

LOCATION	IDEM	09SB139
SAMPLE NUMBER	Industrial	09SS-139-0002
TOP DEPTH (ft bgs)	Default	0
BOTTOM DEPTH (ft bgs)	Closure	2
SAMPLE DATE	Level	4/8/2008

Pesticides/PCBs (ug/kg)

4,4'-DDD	120,000	39	UJ
4,4'-DDE	86,000	510	J
4,4'-DDT	86,000	1100	J
ALDRIN	800	19	UJ
ALPHA-BHC	4,000	19	UJ
ALPHA-CHLORDANE	38,000	99	J
BETA-BHC	12,000	19	UJ
DELTA-BHC	3,400	19	UJ
DIELDRIN	860	39	UJ
ENDOSULFAN I	2,500,000	19	UJ
ENDOSULFAN II	2,900,000	39	UJ
ENDOSULFAN SULFATE	NC	39	UJ
ENDRIN	150,000	39	UJ
ENDRIN ALDEHYDE	150,000	39	UJ
ENDRIN KETONE	140,000	39	UJ
GAMMA-BHC (LINDANE)	19,000	19	UJ
GAMMA-CHLORDANE	68,000	92	J
HEPTACHLOR	2,900	19	UJ
HEPTACHLOR EPOXIDE	1,500	19	UJ
METHOXYCHLOR	2,500,000	190	UJ
TOXAPHENE	12,000	2400	UJ

ug/kg	Micrograms per Kilogram
ft bgs	Feet below ground surfce
IDEM	Indiana Department of environmental Management
J	Estimated Value.
NC	No criteria for this Compound.
U	Non-detect at the concentraiton idicated.

Indicates that the results for this constituent exceeds the IDEM Industrial Default Criteria.

TABLE 4

COMPARISON OF IDEM DEFAULT CLOSURE LEVEL CRITERIA TO THE UNIVERSAL TREATMENT STANDARDS
APRIL 2008 DATA
SWMU 9 - PESTICIDE CONTROL AREA / R-150 TANK AREA
NAVAL SURFACE WARFARE CENTER
CRANE, INDIANA

LOCATION SAMPLE NUMBER TOP DEPTH (ft bgs) BOTTOM DEPTH (ft bgs) SAMPLE DATE	Universal Treatment Standards	10 Times Universal Treatment Standards	09SB110 09SS-110-0002 0 2 4/7/2008		09SB111 09SS-111-0002 0 2 4/7/2008		09SB114 09SS-114-0002 0 2 4/7/2008		09SB115 09SS-115-0002 0 2 4/7/2008		09SB116 09SS-116-0002 0 2 4/7/2008		09SB121 09SS-121-0002 0 2 4/8/2008	
Pesticides/PCBs (ug/kg)														
4,4'-DDD	87	870	14000		220000	UJ	93000	U	35000	U	1300	UJ	32000	U
4,4'-DDE	87	870	20000		220000	UJ	93000	U	35000	U	1300	UJ	32000	U
4,4'-DDT	87	870	22000		1700000	J	680000		520000		11000	J	410000	
ALDRIN	66	660	300	U	110000	UJ	45000	U	17000	U	620	UJ	16000	U
ALPHA-BHC	66	660	300	U	110000	UJ	45000	U	17000	U	620	UJ	16000	U
ALPHA-CHLORDANE	260	2,600	520	J	110000	UJ	45000	U	17000	U	620	UJ	16000	U
BETA-BHC	66	660	300	U	110000	UJ	45000	U	17000	U	620	UJ	16000	U
DELTA-BHC	66	660	300	UJ	110000	UJ	45000	UJ	17000	UJ	620	UJ	16000	UJ
DIELDRIN	130	1,300	12000		220000	UJ	93000	U	35000	U	1300	UJ	32000	U
ENDOSULFAN I	66	660	300	U	110000	UJ	45000	U	17000	U	620	UJ	16000	U
ENDOSULFAN II	130	1,300	630	U	220000	UJ	93000	U	35000	U	1300	UJ	32000	U
ENDOSULFAN SULFATE	130	1,300	630	U	220000	UJ	93000	U	35000	U	1300	UJ	32000	U
ENDRIN	130	1,300	630	U	220000	UJ	93000	U	35000	U	1300	UJ	32000	U
ENDRIN ALDEHYDE	130	1,300	630	U	220000	UJ	93000	U	35000	U	1300	UJ	32000	U
ENDRIN KETONE	NA	NA	630	U	220000	UJ	93000	U	35000	U	1300	UJ	32000	U
GAMMA-BHC (LINDANE)	66	660	300	U	110000	UJ	45000	U	17000	U	620	UJ	16000	U
GAMMA-CHLORDANE	260	2,600	1100	J	110000	UJ	45000	U	17000	U	620	UJ	16000	U
HEPTACHLOR	66	660	300	U	110000	UJ	45000	U	17000	U	620	UJ	16000	U
HEPTACHLOR EPOXIDE	66	660	300	U	110000	UJ	45000	U	17000	U	620	UJ	16000	U
METHOXYCHLOR	180	1,800	3000	U	1100000	UJ	450000	U	170000	U	6200	UJ	160000	U
TOXAPHENE	2600	26,000	40000	U	14000000	UJ	5800000	U	2200000	U	81000	UJ	2000000	U

ug/kg	Micrograms per Kilogram
ft bgs	Feet below ground surfce
IDEM	Indiana Department of environmental Management
J	Estimated Value.
NA	Universal Treatment Standards are not available for this compound.
U	Non-detect at the concentraiton idicated.

Indicates that the reported concentration is greater than 10 times the Universal Treatment Standard.

TABLE 4

COMPARISON OF IDEM DEFAULT CLOSURE LEVEL CRITERIA TO THE UNIVERSAL TREATMENT STANDARDS
APRIL 2008 DATA
SWMU 9 - PESTICIDE CONTROL AREA / R-150 TANK AREA
NAVAL SURFACE WARFARE CENTER
CRANE, INDIANA

LOCATION SAMPLE NUMBER TOP DEPTH (ft bgs) BOTTOM DEPTH (ft bgs) SAMPLE DATE	Universal Treatment Standards	10 Times Universal Treatment Standards	09SB122 09SS-122-0002 0 2 4/8/2008		09SB123 09SS-123-0002 0 2 4/8/2008		09SB125 09SS-125-0002 0 2 4/8/2008		09SB126 09SS-126-0002 0 2 4/8/2008		09SB127 09SS-127-0002 0 2 4/8/2008		09SB130 09SS-130-0002 0 2 4/8/2008	
Pesticides/PCBs (ug/kg)														
4,4'-DDD	87	870	1700	U	18000	U	1000	UJ	250000	UJ	23000	UJ	2200	UJ
4,4'-DDE	87	870	6000		18000	U	1300	J	250000	UJ	23000	UJ	2300	J
4,4'-DDT	87	870	56000		180000		5600	J	860000	J	97000	J	21000	J
ALDRIN	66	660	840	U	8500	U	490	UJ	120000	UJ	11000	UJ	1100	UJ
ALPHA-BHC	66	660	840	U	8500	U	490	UJ	120000	UJ	11000	UJ	1100	UJ
ALPHA-CHLORDANE	260	2,600	840	U	8500	U	15000	J	120000	UJ	35000	J	1600	J
BETA-BHC	66	660	840	U	8500	U	490	UJ	120000	UJ	11000	UJ	1100	UJ
DELTA-BHC	66	660	840	UJ	8500	UJ	490	UJ	120000	UJ	11000	UJ	1100	UJ
DIELDRIN	130	1,300	1700	U	18000	U	1000	UJ	250000	UJ	23000	UJ	2200	UJ
ENDOSULFAN I	66	660	840	U	8500	U	490	UJ	120000	UJ	11000	UJ	1100	UJ
ENDOSULFAN II	130	1,300	1700	U	18000	U	1000	UJ	250000	UJ	23000	UJ	2200	UJ
ENDOSULFAN SULFATE	130	1,300	1700	U	18000	U	1000	UJ	250000	UJ	23000	UJ	2200	UJ
ENDRIN	130	1,300	1700	U	18000	U	1000	UJ	250000	UJ	23000	UJ	2200	UJ
ENDRIN ALDEHYDE	130	1,300	1700	U	18000	U	1000	UJ	250000	UJ	23000	UJ	2200	UJ
ENDRIN KETONE	NA	NA	1700	U	18000	U	1000	UJ	250000	UJ	23000	UJ	2200	UJ
GAMMA-BHC (LINDANE)	66	660	840	U	8500	U	590	J	120000	UJ	11000	UJ	1100	UJ
GAMMA-CHLORDANE	260	2,600	840	U	8500	U	15000	J	120000	UJ	36000	J	1500	J
HEPTACHLOR	66	660	840	U	8500	U	490	UJ	120000	UJ	11000	UJ	1100	UJ
HEPTACHLOR EPOXIDE	66	660	840	U	8500	U	720	J	120000	UJ	11000	UJ	1100	UJ
METHOXYCHLOR	180	1,800	8400	U	85000	U	4900	UJ	1200000	UJ	110000	UJ	11000	UJ
TOXAPHENE	2600	26,000	110000	U	1100000	U	64000	UJ	16000000	UJ	1400000	UJ	140000	UJ

ug/kg	Micrograms per Kilogram
ft bgs	Feet below ground surfce
IDEM	Indiana Department of environmental Management
J	Estimated Value.
NA	Universal Treatment Standards are not available for this compound.
U	Non-detect at the concentraiton idicated.

Indicates that the reported concentration is greater than 10 times the Universal Treatment Standard.

TABLE 4

COMPARISON OF IDEM DEFAULT CLOSURE LEVEL CRITERIA TO THE UNIVERSAL TREATMENT STANDARDS
APRIL 2008 DATA
SWMU 9 - PESTICIDE CONTROL AREA / R-150 TANK AREA
NAVAL SURFACE WARFARE CENTER
CRANE, INDIANA

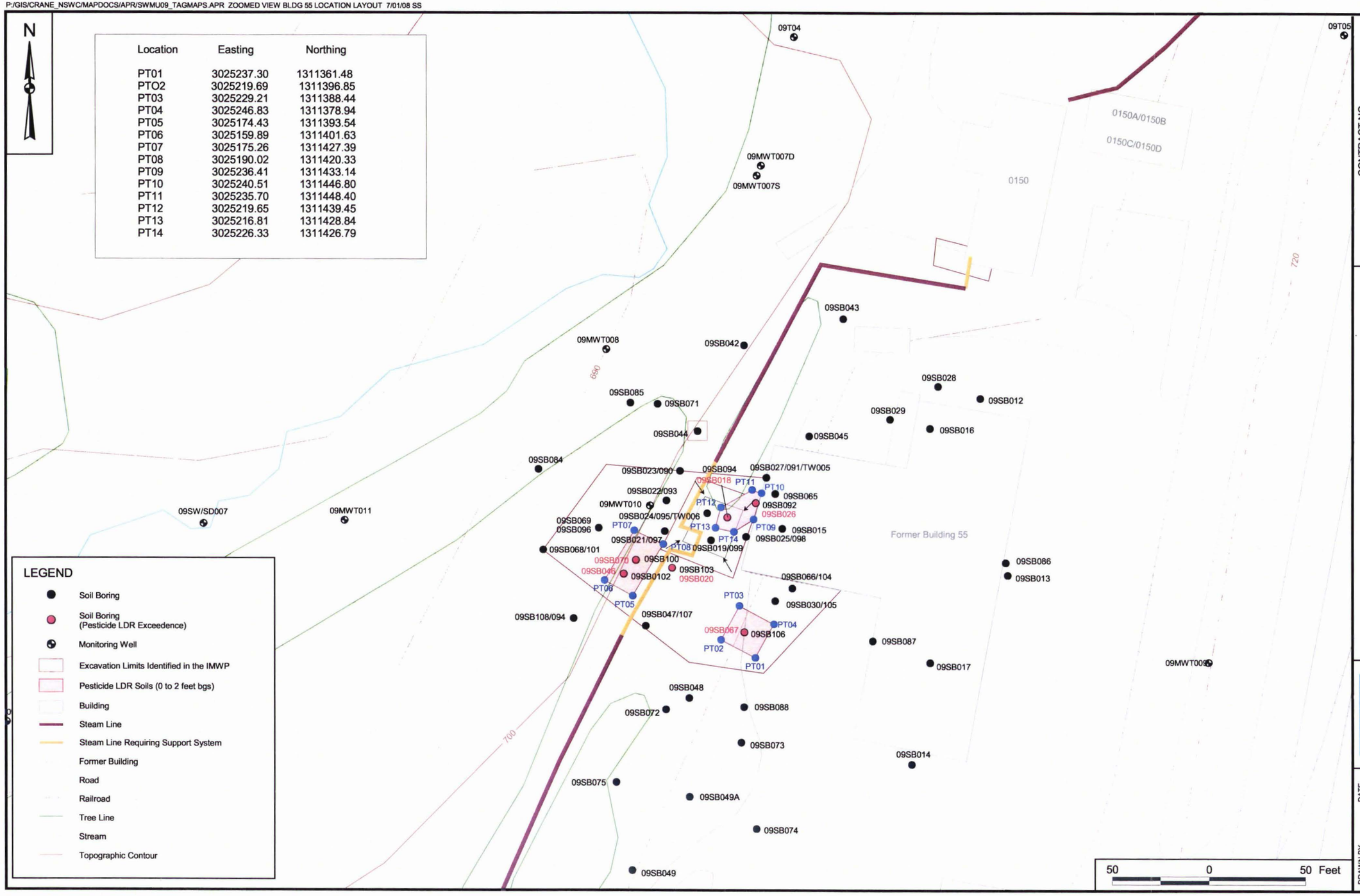
LOCATION SAMPLE NUMBER TOP DEPTH (ft bgs) BOTTOM DEPTH (ft bgs) SAMPLE DATE	Universal Treatment Standards	10 Times Universal Treatment Standards	09SB131 09SS-131-0002 0 2 4/8/2008		09SB133 09SS-133-0002 0 2 4/8/2008		09SB137 09SS-137-0002 0 2 4/8/2008	
Pesticides/PCBs (ug/kg)								
4,4'-DDD	87	870	9000	UJ	510000	UJ	480000	J
4,4'-DDE	87	870	9000	UJ	510000	UJ	220000	UJ
4,4'-DDT	87	870	32000	J	10000000	J	1800000	J
ALDRIN	66	660	4300	UJ	240000	UJ	110000	UJ
ALPHA-BHC	66	660	4300	UJ	240000	UJ	110000	UJ
ALPHA-CHLORDANE	260	2,600	39000	J	240000	UJ	140000	J
BETA-BHC	66	660	4300	UJ	240000	UJ	110000	UJ
DELTA-BHC	66	660	4300	UJ	240000	UJ	110000	UJ
DIELDRIN	130	1,300	9000	UJ	510000	UJ	220000	UJ
ENDOSULFAN I	66	660	4300	UJ	240000	UJ	110000	UJ
ENDOSULFAN II	130	1,300	9000	UJ	510000	UJ	220000	UJ
ENDOSULFAN SULFATE	130	1,300	9000	UJ	510000	UJ	220000	UJ
ENDRIN	130	1,300	9000	UJ	510000	UJ	220000	UJ
ENDRIN ALDEHYDE	130	1,300	9000	UJ	510000	UJ	220000	UJ
ENDRIN KETONE	NA	NA	9000	UJ	510000	UJ	220000	UJ
GAMMA-BHC (LINDANE)	66	660	4300	UJ	240000	UJ	110000	UJ
GAMMA-CHLORDANE	260	2,600	41000	J	240000	UJ	170000	J
HEPTACHLOR	66	660	4300	UJ	240000	UJ	110000	UJ
HEPTACHLOR EPOXIDE	66	660	4300	UJ	240000	UJ	110000	UJ
METHOXYCHLOR	180	1,800	43000	UJ	2400000	UJ	1100000	UJ
TOXAPHENE	2600	26,000	560000	UJ	32000000	UJ	14000000	UJ

ug/kg	Micrograms per Kilogram
ft bgs	Feet below ground surfce
IDEM	Indiana Department of environmental Management
J	Estimated Value.
NA	Universal Treatment Standards are not available for this compound.
U	Non-detect at the concentraiton idicated.

Indicates that the reported concentration is greater than 10 times the Universal Treatment Standard.

FIGURES

P:/GIS/CRANE_NSWC/MAPDOCS/APR/SWMU09_TAGMAPS.APR ZOOMED VIEW BLDG 55 LOCATION LAYOUT 7/01/08 SS



Location	Easting	Northing
PT01	3025237.30	1311361.48
PTO2	3025219.69	1311396.85
PT03	3025229.21	1311388.44
PT04	3025246.83	1311378.94
PT05	3025174.43	1311393.54
PT06	3025159.89	1311401.63
PT07	3025175.26	1311427.39
PT08	3025190.02	1311420.33
PT09	3025236.41	1311433.14
PT10	3025240.51	1311446.80
PT11	3025235.70	1311448.40
PT12	3025219.65	1311439.45
PT13	3025216.81	1311428.84
PT14	3025226.33	1311426.79

CONTRACT NO. CTO 00042

APPROVED BY ___ DATE ___

APPROVED BY ___ DATE ___

DRAWING NO. FIGURE 1

REV 0

PERSTICIDE LDR SOIL EXCAVATION
SWMU 9
NSWC CRANE
CRANE, INDIANA

NAVFAC

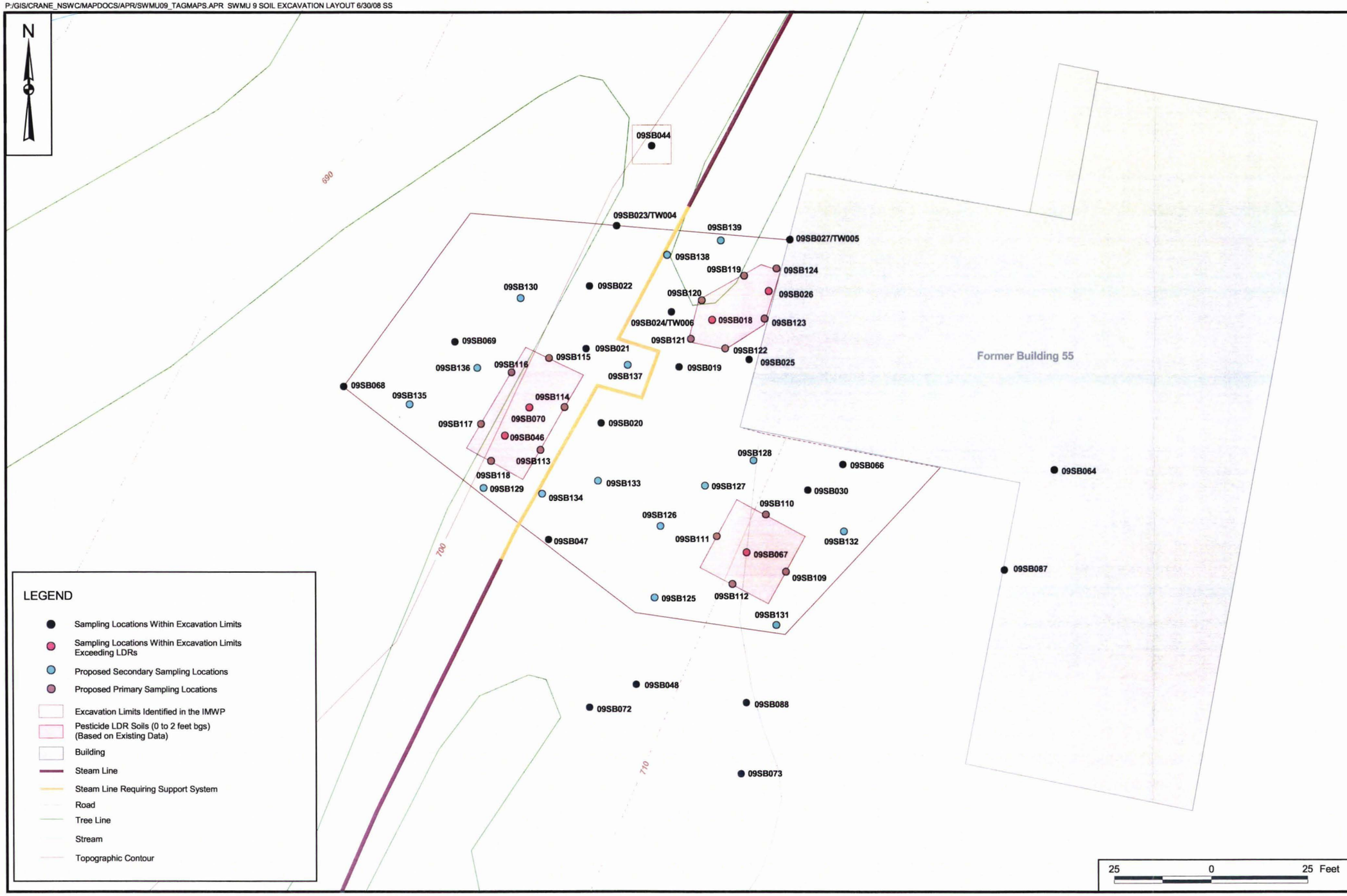
DRAWN BY S. STROZ DATE 3/29/07

CHECKED BY T. SMITH DATE 7/01/08

COST/SCHED-AREA

SCALE AS NOTED

P:/GIS/CRANE_NSWC/MAPDOCS/APR/SWMU09_TAGMAPS.APR SWMU 9 SOIL EXCAVATION LAYOUT 6/30/08 SS



CONTRACT NO.
CTO 00042

APPROVED BY ___ DATE ___

APPROVED BY ___ DATE ___

DRAWING NO. FIGURE 2

REV 0

PROPOSED SAMPLING LOCATIONS
SWMU 9
NSWC CRANE
CRANE, INDIANA

NAVFAC

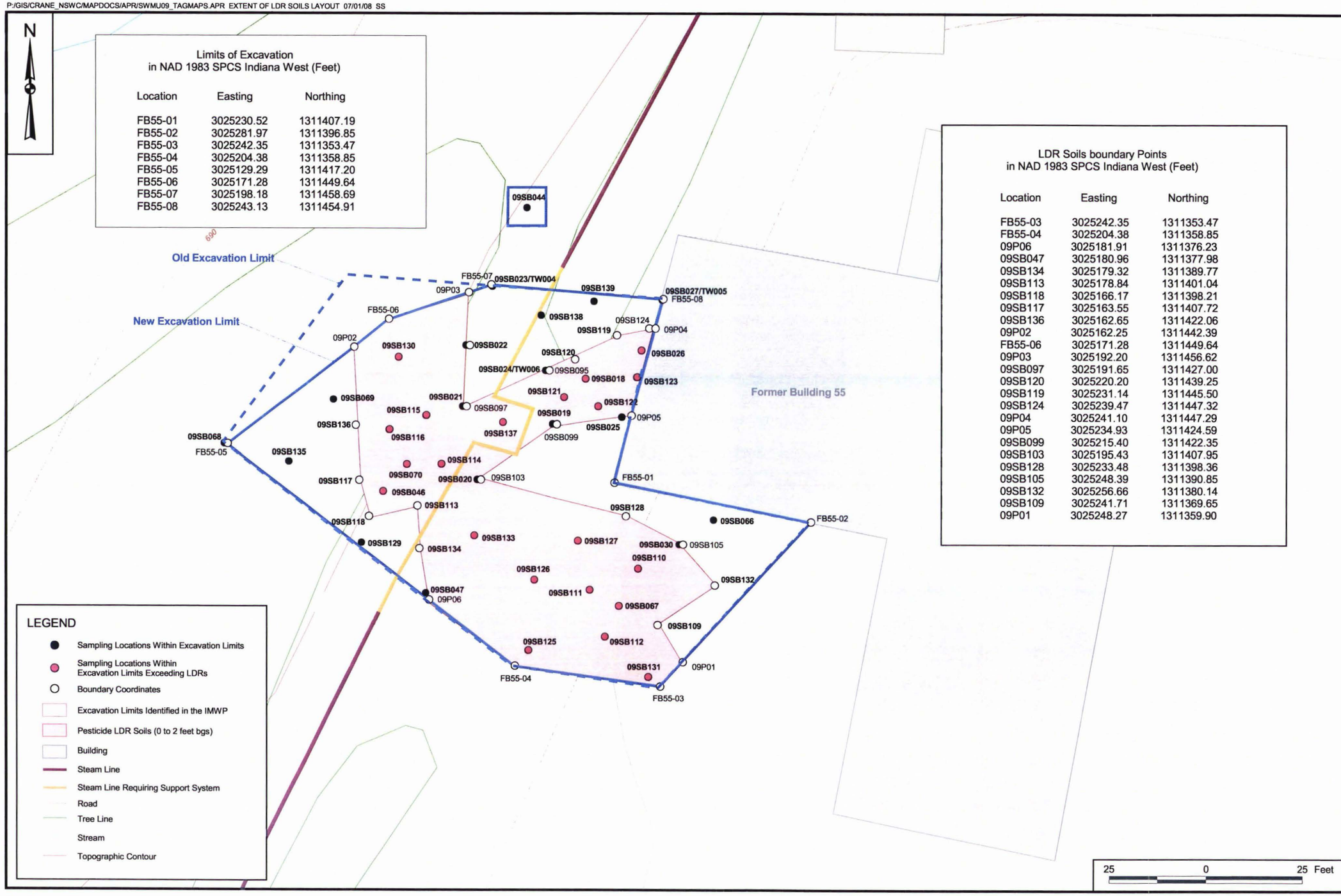
DRAWN BY S. STROZ DATE 4/04/08

CHECKED BY T. SMITH DATE 6/30/08

COST/SCHED-AREA

SCALE AS NOTED

P:/GIS/CRANE_NSWC/MAPDOCS/APR/SWMU09_TAGMAPS.APR EXTENT OF LDR SOILS LAYOUT 07/01/08 SS



Limits of Excavation
in NAD 1983 SPCS Indiana West (Feet)

Location	Easting	Northing
FB55-01	3025230.52	1311407.19
FB55-02	3025281.97	1311396.85
FB55-03	3025242.35	1311353.47
FB55-04	3025204.38	1311358.85
FB55-05	3025129.29	1311417.20
FB55-06	3025171.28	1311449.64
FB55-07	3025198.18	1311458.69
FB55-08	3025243.13	1311454.91

LDR Soils boundary Points
in NAD 1983 SPCS Indiana West (Feet)

Location	Easting	Northing
FB55-03	3025242.35	1311353.47
FB55-04	3025204.38	1311358.85
09P06	3025181.91	1311376.23
09SB047	3025180.96	1311377.98
09SB134	3025179.32	1311389.77
09SB113	3025178.84	1311401.04
09SB118	3025166.17	1311398.21
09SB117	3025163.55	1311407.72
09SB136	3025162.65	1311422.06
09P02	3025162.25	1311442.39
FB55-06	3025171.28	1311449.64
09P03	3025192.20	1311456.62
09SB097	3025191.65	1311427.00
09SB120	3025220.20	1311439.25
09SB119	3025231.14	1311445.50
09SB124	3025239.47	1311447.32
09P04	3025241.10	1311447.29
09P05	3025234.93	1311424.59
09SB099	3025215.40	1311422.35
09SB103	3025195.43	1311407.95
09SB128	3025233.48	1311398.36
09SB105	3025248.39	1311390.85
09SB132	3025256.66	1311380.14
09SB109	3025241.71	1311369.65
09P01	3025248.27	1311359.90

CONTRACT NO. CTO 00042

APPROVED BY ___ DATE ___

APPROVED BY ___ DATE ___

DRAWING NO. FIGURE 3

REV 0

EXTENT OF LDR SOILS
SWMU 9
NSWC CRANE
CRANE, INDIANA

DRAWN BY J. ENGLISH DATE 05/14/08

CHECKED BY T. SMITH DATE 07/01/08

COST/SCHED-AREA

SCALE AS NOTED

ATTACHMENT 1

Volume Calculations

CLIENT:	NAVAL SURFACE WARFARE CENTER CRANE CRANE, INDIANA	JOB NUMBER:	112G00477 - 14.116
SUBJECT:	SWMU 9 - PESTICIDE CONTROL AREA / R-150 TANK AREA		
BASED ON:	Limits of LDR Soil Excavation Drawing	DRAWING NUMBER:	Figure 1
BY: TWS Date: 6-27-08	CHECKED BY: Date: DCW 6/27/08	APPROVED BY:	DATE:

OBJECTIVE:

The purpose of this calculation is to recalculate the volume of soil to be excavated from the pesticide rinse area adjacent to former Building 55 and to estimate the volume of soil that has been identified as restricted material (hazardous material that requires treatment prior to land disposal within a hazardous waste landfill).

APPROACH:

Use the total excavation volume for the former Building 55 area as reported in the SWMU 9 IMWP and reduce the volume associated with the soil volume removed from the excavation as a result of re-defining the limits of excavation.

Use the areas calculated from the software used to produce Figure 3 and multiply this area by the depth interval that is represented by the sample containing the contaminant concentrations that require treatment prior to land disposal.

REFERENCES:

1) Solid Waste Management Unit 9 Interim Measures Work Plan, Tetra Tech, December 2007.

2) Figure 3 provided with this technical memorandum (attached to this calculation).

CALCULATIONS

Volumes are rounded up to the nearest 10 cubic yards in the following calculations.

Total Volume of Excavated Soil

The total volume of excavated soil is equal to the volume reported in the SWMU 9 IMWP (Ref 1) minus the soil volume removed through the re-definition of the limits of excavation.

Total Excavation Volume Reported in SWMU 9 IMWP =	870 cy
Area of excavation removed through re-definition =	650 sf
Depth of excavation in area removed from excavation limits =	2 ft
Volume of Soil removed from Excavation Limits =	50 cy
Re-Defined Total Excavation Volume =	820 cy

CLIENT:	NAVAL SURFACE WARFARE CENTER CRANE CRANE, INDIANA	JOB NUMBER:	112G00477 - 14.116
SUBJECT:	SWMU 9 - PESTICIDE CONTROL AREA / R-150 TANK AREA		
BASED ON:	Limits of LDR Soil Excavation Drawing	DRAWING NUMBER:	Figure 1
BY: TWS Date: 6-27-08	CHECKED BY: Date: DCW 6/27/08	APPROVED BY:	DATE:

Volume of LDR Soil

The volume of LDR soil is calculated by taking the area of LDR soil defined on Figure 3 of this technical memorandum and multiplying by the depth of LDR soils.

Area of LDR Soil =	5080 sf
Depth of LDR Soil =	2 ft
Volume of LDR Soil =	380 cy

Non-LDR soil will be the difference between the total excavation volume and the volume of LDR soil.

Volume of Non-LDR Soil =	440 cy

ATTACHMENT 2

April 2008 Sampling Results and Validation Letters

Tetra Tech NUS **INTERNAL CORRESPONDENCE**

TO:	**R. BASINSKI**	**DATE:**	**JUNE 30, 2008**
FROM:	**MATTHEW D. KRAUS**	**COPIES:**	**DV FILE**

SUBJECT: **ORGANIC DATA VALIDATION – PESTICIDES (PEST)**
NSWC CRANE – CTO 467
SAMPLE DELIVERY GROUP (SDG) – TT46701

SAMPLES: 17/Soil/

09FD04070801	09SS 109 0002	09SS 110 0002
09SS 111 0002	09SS 112 0002	09SS 113 0002
09SS 114 0002	09SS 115 0002	09SS 116 0002
09SS 117 0002	09SS 118 0002	09SS 119 0002
09SS 120 0002	09SS 121 0002	09SS 122 0002
09SS 123 0002	09SS 124 0002	

Overview

The sample set for NSWC Crane, CTO 467, SDG TT46701, consists of seventeen soil environmental samples. One field duplicate pair (09FD04070801 / 09SS 112 0002) is included in this SDG.

All samples were analyzed for pesticides (PEST). The samples were collected by Tetra Tech NUS, Inc. on April 7-8th, 2008 and analyzed by Pace Analytical Services, Inc. Pesticide analyses were conducted in accordance with SW-846 method 8081A and gas chromatography / electron capture detector (GC/ECD) instrumentation and methodologies.

Data were evaluated based on the following parameters:

* • Data Completeness
• Holding Times
* • Initial and Continuing Calibration Recoveries
* • Laboratory Method/Preparation Blank Analyses
* • Surrogate Recoveries
* • Matrix Spike Recoveries
• Laboratory Control Sample Recoveries
• Field Duplicate Precision
* • Detection Limits
* • Compound Quantitation

* - All quality control criteria were met for this parameter.

Holding Times

Samples 09SS 111 0002, 09SS 116 0002, 09SS 117 0002, 09SS 118 0002 and 09FD04070801 were re-extracted outside of the fourteen day holding time. The samples were re-extracted by the laboratory due to poor surrogate recoveries yielded by the original extractions and analyses. Re-extracted sample results were used for validation therefore, all positive and non-detected compound results reported for the aforementioned samples were qualified estimated, "J" or "UJ", respectively.

Laboratory Control Sample Recoveries

The laboratory control sample (LCS) percent recovery (%R) for delta-BHC was less than the lower quality control limit on 04/15/08 at 13:45 affecting all samples analyzed on 4/10/08. The affected non-detected delta-BHC results were qualified as estimated, "UJ".

Field Duplicate Precision

Field duplicate imprecision (RPD > 50%) was noted for 4,4'-DDT for the field duplicate pair (0U9FD04070801 / 0U9SS 112 0002) affecting all samples. The positive results reported for 4,4'-DDT were qualified as estimated, "J".

Notes

Several compounds were qualified as estimated, "J", due to uncertainty near the detection limit.

The relative percent difference (RPD) of gamma-chlordane results reported from columns RTX-CLP (column 1) and RTX-CLP2 (column 2) were greater than the upper quality control limit. The positive gamma-chlordane result reported for sample 09SS 110 0002 was qualified as estimated, "J".

The laboratory reported the higher of the analyte detections from column 1 or 2 for any given sample.

The laboratory did not provide percent breakdown information for 4,4'-DDT and Endrin from the Performance Evaluation Mixtures (PEMs).

All sample extracts except for the extract from sample 09SS 117 0002 were analyzed at a dilution due to concentrations of pesticides that exceeded the linear calibration range of instrumentation when undiluted and because of poor surrogate recoveries yielded by initial analyses. Non-detected compound results were reported at elevated detection limits due to the sample extract dilutions. The following list summarizes the dilution factor of each sample in this SDG as reported on the laboratory Form 1 reports:

Dilution Factor	Sample ID
1X	09SS 117 0002
4X	09SS 118 0002
50X	09SS 116 0002
100X	09FD04070801, 09SS 109 0002, 09SS 112 0002, 09SS 113 0002
200X	09SS 119 0002, 09SS 120 0002
400X	09SS 110 0002
500X	09SS 124 0002
1,000X	09SS 122 0002
10,000X	09SS 111 0002, 09SS 123 0002
20,000X	09SS 115 0002, 09SS 121 0002
50,000X	09SS 114 0002

According to the laboratory sample receipt form, two of the three jars received for the MS/MSD of sample 0U9 SS 124 0002 contained free flowing water while the remaining jar contained dry sample.

According to the laboratory case narrative, data from the MS/MSD duplicate analyses of sample 09SS 124 0002 was not usable because of the dilution performed which was necessary to bring pesticide concentrations into the calibration range of the instrumentation used for analysis. The laboratory did not submit any data for the MS/MSD duplicate analysis of sample 09SS 124 0002.

According to the laboratory case narrative, samples 09SS 111 0002, 09SS 116 0002, 09SS 117 0002, 09SS118 0002 and 09FD04070801 were re-analyzed and re-prepared using a modified sonication technique to avoid contamination of laboratory glassware and equipment because pesticides concentrations in those samples, namely from 4,4'-DDT, were extremely high.

The continuing calibration verification (CCV) analyzed on column 1 at 17:11 on 05/06/08 yielded percent differences (%Ds) beyond the quality control limit (± 15%) for the compounds 4,4'-DDT, endrin aldehyde and methoxychlor affecting samples 09SS 117 0002 and 09SS 118 0002. The %Ds for those compounds on column 2 were within quality control limits. The positive 4,4'-DDT results reported for the affected samples were not qualified because those results were reported from column 2. The non-detected results reported for endrin aldehyde and methoxychlor were not qualified because the %Ds for those compounds were compliant on column 2.

The CCV analyzed on column 2 at 21:03 on 05/06/08 yielded %Ds beyond the quality control limit (± 15%) for the compounds alpha-BHC, gamma-BHC, and heptachlor. No data was qualified because the corresponding %Ds on column 1 were within quality control limits for those compounds and all of the compounds were reported as non-detected in affected samples.

The CCV analyzed on column 1 at 13:15 on 05/07/08 yielded %Ds beyond the quality control limit (± 15%) for the compounds 4,4'-DDT, endrin aldehyde, and methoxychlor affecting samples 09SS 111 0002, 09SS 116 0002 and 09FD04070801. The positive 4,4'-DDT results reported for the affected samples were not qualified because those results were reported from column 2. The non-detected results reported for endrin aldehyde and methoxychlor were not qualified because the %Ds for those compounds were compliant on column 2.

Both surrogates were diluted out of all environmental samples except 09FD04070801 and 09SS 117 0002.

The surrogate decachlorobiphenyl yielded a percent recovery (%R) greater than the upper quality control limit for the 100X diluted analysis of sample 09FD04070801. No validation action was taken because the sample was diluted greater than 5X.

Executive Summary

Laboratory Performance: All of the compounds in samples 09SS 111 0002, 09SS 116 0002, 0U9SS 117 0002, 09SS 118 0002 and 09FD04070801 were qualified due to holding time noncompliance. Delta-BHC results were qualified due to laboratory control sample noncompliance. Gamma chlordane was qualified due to a noncompliant percent difference between sample results for sample 09SS 110 0002.

Other Factors Affecting Data Quality: Field duplicate pair results for 4,4'-DDT were qualified due to imprecision (> 50% RPD). Several compounds were qualified due to uncertainty near the detection limit.

The data for these analyses were reviewed with reference to the "National Functional Guidelines for Organic Data Review", October 1999, and the Department of Defense Quality Systems Manuel (DoD QSM).

The text of this report has been formulated to address only those problem areas affecting data quality.

"I attest that the data referenced herein were validated according to the agreed upon validation criteria as specified in the DoD QSM and the Quality Assurance Project Plan (QAPP)."

Tetra Tech NUS
Matthew D. Kraus
Environmental Chemist

Tetra Tech NUS
Joseph A. Samchuck
Quality Assurance Officer

Attachments:

1. Appendix A - Qualified Analytical Results
2. Appendix B - Results as reported by the Laboratory
3. Appendix C - Support Documentation

APPENDIX A

QUALIFIED ANALYTICAL RESULTS

Data Validation Qualifier Codes:

A	= Lab Blank Contamination
B	= Field Blank Contamination
C	= Calibration Noncompliance (e.g. %RSDs, %Ds, ICVs, CCVs, RRFs, etc:)
C01	= GC/MS Tuning Noncompliance
D	= MS/MSD Recovery Noncompliance
E	= LCS/LCSD Recovery Noncompliance
F	= Laboratory Duplicate Imprecision
G	= Field Duplicate Imprecision
H	= Holding Time Exceedance
I	= ICP Serial Dilution Noncompliance
J	= GFAA PDS – GFAA MSA's r <0.995 / ICP PDS Recovery Noncompliance
K	= IPC Interference – included ICS %R Noncompliance
L	= Instrument Calibration Range Exceedance
M	= Sample Preservation Noncompliance
N	= Internal Standard Noncompliance
N01	= Internal Standard Recovery Noncompliance Dioxins
N02	= Recovery Standard Noncompliance Dioxins
N03	= Clean-up Standard Noncompliance Dioxins
O	= Poor Instrument Performance (e.g. base-line drifting)
P	= Uncertainty near detection limit (< 2 x IDL for inorganics and < CRDL for organics)
Q	= Other problems (can encompass a number of issues; e.g. chromatography, interferences, etc.)
R	= Surrogate Recovery Noncompliance
S	= Pesticide/PCB Resolution
T	= % Breakdown Noncompliance for DDT and Endrin
U	= % Difference between columns/detectors > 25% for positive results determined via GC/HPLC
V	= Non-linear calibrations; correlation coefficient r < 0.995
W	= EMPC result
X	= Signal to noise response drop
Y	= Percent solids <30%
Z	= Uncertainty at 2 sigma deviation is greater than sample activity

PROJ_NO: 01019

SDG: TT46701 MEDIA: SOIL DATA FRACTION: PEST/PCB

nsample	09FD04070801	nsample	09SS 109 0002	nsample	09SS 110 0002
samp_date	4/7/2008	samp_date	4/7/2008 4:50:00 PM	samp_date	4/7/2008 5:05:00 PM
lab_id	TT46701-017RXRX	lab_id	TT46701-001	lab_id	TT46701-002
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/KG	units	UG/KG	units	UG/KG
Pct_Solids	75.6	Pct_Solids	91.7	Pct_Solids	84.5
DUP_OF:	OU9SS 112 0002	DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code	Parameter	Result	Val Qual	Qual Code	Parameter	Result	Val Qual	Qual Code
4,4'-DDD	2600	UJ	H	4,4'-DDD	140	U		4,4'-DDD	14000		
4,4'-DDE	2600	UJ	H	4,4'-DDE	590			4,4'-DDE	20000		
4,4'-DDT	11000	J	GH	4,4'-DDT	950			4,4'-DDT	22000		
ALDRIN	1200	UJ	H	ALDRIN	70.0	U		ALDRIN	300	U	
ALPHA-BHC	1200	UJ	H	ALPHA-BHC	70.0	U		ALPHA-BHC	300	U	
ALPHA-CHLORDANE	1200	UJ	H	ALPHA-CHLORDANE	70.0	U		ALPHA-CHLORDANE	520	J	P
BETA-BHC	1200	UJ	H	BETA-BHC	70.0	U		BETA-BHC	300	U	
DELTA-BHC	1200	UJ	H	DELTA-BHC	70.0	UJ	E	DELTA-BHC	300	UJ	E
DIELDRIN	2600	UJ	H	DIELDRIN	140	U		DIELDRIN	12000		
ENDOSULFAN I	1200	UJ	H	ENDOSULFAN I	70.0	U		ENDOSULFAN I	300	U	
ENDOSULFAN II	2600	UJ	H	ENDOSULFAN II	140	U		ENDOSULFAN II	630	U	
ENDOSULFAN SULFATE	2600	UJ	H	ENDOSULFAN SULFATE	140	U		ENDOSULFAN SULFATE	630	U	
ENDRIN	2600	UJ	H	ENDRIN	140	U		ENDRIN	630	U	
ENDRIN ALDEHYDE	2600	UJ	H	ENDRIN ALDEHYDE	140	U		ENDRIN ALDEHYDE	630	U	
ENDRIN KETONE	2600	UJ	H	ENDRIN KETONE	140	U		ENDRIN KETONE	630	U	
GAMMA-BHC (LINDANE)	1200	UJ	H	GAMMA-BHC (LINDANE)	70.0	U		GAMMA-BHC (LINDANE)	300	U	
GAMMA-CHLORDANE	1200	UJ	H	GAMMA-CHLORDANE	70.0	U		GAMMA-CHLORDANE	1100	J	U
HEPTACHLOR	1200	UJ	H	HEPTACHLOR	70.0	U		HEPTACHLOR	300	U	
HEPTACHLOR EPOXIDE	1200	UJ	H	HEPTACHLOR EPOXIDE	70.0	U		HEPTACHLOR EPOXIDE	300	U	
METHOXYCHLOR	12000	UJ	H	METHOXYCHLOR	700	U		METHOXYCHLOR	3000	U	
TOXAPHENE	160000	UJ	H	TOXAPHENE	9100	U		TOXAPHENE	40000	U	

PROJ_NO: 01019

SDG: TT46701 MEDIA: SOIL DATA FRACTION: PEST/PCB

nsample	09SS 111 0002	nsample	09SS 112 0002	nsample	09SS 113 0002
samp_date	4/7/2008 5:10:00 PM	samp_date	4/7/2008 5:20:00 PM	samp_date	4/7/2008 5:50:00 PM
lab_id	TT46701-003RXRX	lab_id	TT46701-004	lab_id	TT46701-005
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/KG	units	UG/KG	units	UG/KG
Pct_Solids	78.5	Pct_Solids	82.3	Pct_Solids	67.4
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	220000	UJ	H
4,4'-DDE	220000	UJ	H
4,4'-DDT	1700000	J	H
ALDRIN	110000	UJ	H
ALPHA-BHC	110000	UJ	H
ALPHA-CHLORDANE	110000	UJ	H
BETA-BHC	110000	UJ	H
DELTA-BHC	110000	UJ	H
DIELDRIN	220000	UJ	H
ENDOSULFAN I	110000	UJ	H
ENDOSULFAN II	220000	UJ	H
ENDOSULFAN SULFATE	220000	UJ	H
ENDRIN	220000	UJ	H
ENDRIN ALDEHYDE	220000	UJ	H
ENDRIN KETONE	220000	UJ	H
GAMMA-BHC (LINDANE)	110000	UJ	H
GAMMA-CHLORDANE	110000	UJ	H
HEPTACHLOR	110000	UJ	H
HEPTACHLOR EPOXIDE	110000	UJ	H
METHOXYCHLOR	1100000	UJ	H
TOXAPHENE	14000000	UJ	H

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	160	U	
4,4'-DDE	940		
4,4'-DDT	4700	J	G
ALDRIN	78.0	U	
ALPHA-BHC	78.0	U	
ALPHA-CHLORDANE	78.0	U	
BETA-BHC	78.0	U	
DELTA-BHC	78.0	UJ	E
DIELDRIN	160	U	
ENDOSULFAN I	78.0	U	
ENDOSULFAN II	160	U	
ENDOSULFAN SULFATE	160	U	
ENDRIN	160	U	
ENDRIN ALDEHYDE	160	U	
ENDRIN KETONE	160	U	
GAMMA-BHC (LINDANE)	78.0	U	
GAMMA-CHLORDANE	78.0	U	
HEPTACHLOR	78.0	U	
HEPTACHLOR EPOXIDE	78.0	U	
METHOXYCHLOR	780	U	
TOXAPHENE	10000	U	

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	200	U	
4,4'-DDE	200	U	
4,4'-DDT	1200		
ALDRIN	95.0	U	
ALPHA-BHC	95.0	U	
ALPHA-CHLORDANE	95.0	U	
BETA-BHC	95.0	U	
DELTA-BHC	95.0	UJ	E
DIELDRIN	200	U	
ENDOSULFAN I	95.0	U	
ENDOSULFAN II	200	U	
ENDOSULFAN SULFATE	200	U	
ENDRIN	200	U	
ENDRIN ALDEHYDE	200	U	
ENDRIN KETONE	200	U	
GAMMA-BHC (LINDANE)	95.0	U	
GAMMA-CHLORDANE	95.0	U	
HEPTACHLOR	95.0	U	
HEPTACHLOR EPOXIDE	95.0	U	
METHOXYCHLOR	950	U	
TOXAPHENE	12000	U	

PROJ_NO: 01019

SDG: TT46701 MEDIA: SOIL DATA FRACTION: PEST/PCB

nsample	09SS 114 0002	nsample	09SS 115 0002	nsample	09SS 116 0002
samp_date	4/7/2008 6:00:00 PM	samp_date	4/7/2008 6:10:00 PM	samp_date	4/7/2008 6:17:00 PM
lab_id	TT46701-006	lab_id	TT46701-007	lab_id	TT46701-008RXRX
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/KG	units	UG/KG	units	UG/KG
Pct_Solids	71.7	Pct_Solids	75.1	Pct_Solids	76.8
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	93000	U	
4,4'-DDE	93000	U	
4,4'-DDT	680000		
ALDRIN	45000	U	
ALPHA-BHC	45000	U	
ALPHA-CHLORDANE	45000	U	
BETA-BHC	45000	U	
DELTA-BHC	45000	UJ	E
DIELDRIN	93000	U	
ENDOSULFAN I	45000	U	
ENDOSULFAN II	93000	U	
ENDOSULFAN SULFATE	93000	U	
ENDRIN	93000	U	
ENDRIN ALDEHYDE	93000	U	
ENDRIN KETONE	93000	U	
GAMMA-BHC (LINDANE)	45000	U	
GAMMA-CHLORDANE	45000	U	
HEPTACHLOR	45000	U	
HEPTACHLOR EPOXIDE	45000	U	
METHOXYCHLOR	450000	U	
TOXAPHENE	5800000	U	

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	35000	U	
4,4'-DDE	35000	U	
4,4'-DDT	520000		
ALDRIN	17000	U	
ALPHA-BHC	17000	U	
ALPHA-CHLORDANE	17000	U	
BETA-BHC	17000	U	
DELTA-BHC	17000	UJ	E
DIELDRIN	35000	U	
ENDOSULFAN I	17000	U	
ENDOSULFAN II	35000	U	
ENDOSULFAN SULFATE	35000	U	
ENDRIN	35000	U	
ENDRIN ALDEHYDE	35000	U	
ENDRIN KETONE	35000	U	
GAMMA-BHC (LINDANE)	17000	U	
GAMMA-CHLORDANE	17000	U	
HEPTACHLOR	17000	U	
HEPTACHLOR EPOXIDE	17000	U	
METHOXYCHLOR	170000	U	
TOXAPHENE	2200000	U	

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	1300	UJ	H
4,4'-DDE	1300	UJ	H
4,4'-DDT	11000	J	H
ALDRIN	620	UJ	H
ALPHA-BHC	620	UJ	H
ALPHA-CHLORDANE	620	UJ	H
BETA-BHC	620	UJ	H
DELTA-BHC	620	UJ	H
DIELDRIN	1300	UJ	H
ENDOSULFAN I	620	UJ	H
ENDOSULFAN II	1300	UJ	H
ENDOSULFAN SULFATE	1300	UJ	H
ENDRIN	1300	UJ	H
ENDRIN ALDEHYDE	1300	UJ	H
ENDRIN KETONE	1300	UJ	H
GAMMA-BHC (LINDANE)	620	UJ	H
GAMMA-CHLORDANE	620	UJ	H
HEPTACHLOR	620	UJ	H
HEPTACHLOR EPOXIDE	620	UJ	H
METHOXYCHLOR	6200	UJ	H
TOXAPHENE	81000	UJ	H

PROJ_NO: 01019

SDG: TT46701 MEDIA: SOIL DATA FRACTION: PEST/PCB

nsample	09SS 117 0002	nsample	09SS 118 0002	nsample	09SS 119 0002
samp_date	4/7/2008 6:35:00 PM	samp_date	4/7/2008 6:25:00 PM	samp_date	4/8/2008 10:20:00 AM
lab_id	TT46701-009RXRX	lab_id	TT46701-010RXRX	lab_id	TT46701-011
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/KG	units	UG/KG	units	UG/KG
Pct_Solids	71.3	Pct_Solids	75.9	Pct_Solids	73.9
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	3.7	UJ	H
4,4'-DDE	16.0	J	H
4,4'-DDT	16.0	J	H
ALDRIN	1.8	UJ	H
ALPHA-BHC	1.8	UJ	H
ALPHA-CHLORDANE	1.8	UJ	H
BETA-BHC	1.8	UJ	H
DELTA-BHC	1.8	UJ	H
DIELDRIN	3.7	UJ	H
ENDOSULFAN I	1.8	UJ	H
ENDOSULFAN II	3.7	UJ	H
ENDOSULFAN SULFATE	3.7	UJ	H
ENDRIN	3.7	UJ	H
ENDRIN ALDEHYDE	3.7	UJ	H
ENDRIN KETONE	3.7	UJ	H
GAMMA-BHC (LINDANE)	1.8	UJ	H
GAMMA-CHLORDANE	1.8	UJ	H
HEPTACHLOR	1.8	UJ	H
HEPTACHLOR EPOXIDE	1.8	UJ	H
METHOXYCHLOR	18.0	UJ	H
TOXAPHENE	230	UJ	H

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	14.0	UJ	H
4,4'-DDE	92.0	J	H
4,4'-DDT	70.0	J	H
ALDRIN	6.8	UJ	H
ALPHA-BHC	6.8	UJ	H
ALPHA-CHLORDANE	6.8	UJ	H
BETA-BHC	6.8	UJ	H
DELTA-BHC	6.8	UJ	H
DIELDRIN	14.0	UJ	H
ENDOSULFAN I	6.8	UJ	H
ENDOSULFAN II	14.0	UJ	H
ENDOSULFAN SULFATE	14.0	UJ	H
ENDRIN	14.0	UJ	H
ENDRIN ALDEHYDE	14.0	UJ	H
ENDRIN KETONE	14.0	UJ	H
GAMMA-BHC (LINDANE)	6.8	UJ	H
GAMMA-CHLORDANE	6.8	UJ	H
HEPTACHLOR	6.8	UJ	H
HEPTACHLOR EPOXIDE	6.8	UJ	H
METHOXYCHLOR	68.0	UJ	H
TOXAPHENE	880	UJ	H

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	360	U	
4,4'-DDE	3200		
4,4'-DDT	8800		
ALDRIN	170	U	
ALPHA-BHC	170	U	
ALPHA-CHLORDANE	210	J	P
BETA-BHC	170	U	
DELTA-BHC	170	UJ	E
DIELDRIN	360	U	
ENDOSULFAN I	170	U	
ENDOSULFAN II	360	U	
ENDOSULFAN SULFATE	360	U	
ENDRIN	360	U	
ENDRIN ALDEHYDE	360	U	
ENDRIN KETONE	360	U	
GAMMA-BHC (LINDANE)	170	U	
GAMMA-CHLORDANE	220	J	P
HEPTACHLOR	170	U	
HEPTACHLOR EPOXIDE	170	U	
METHOXYCHLOR	1700	U	
TOXAPHENE	23000	U	

PROJ_NO: 01019

SDG: TT46701 MEDIA: SOIL DATA FRACTION: PEST/PCB

nsample	09SS 120 0002	nsample	09SS 121 0002	nsample	09SS 122 0002
samp_date	4/8/2008 10:27:00 AM	samp_date	4/8/2008 10:33:00 AM	samp_date	4/8/2008 10:40:00 AM
lab_id	TT46701-012	lab_id	TT46701-013	lab_id	TT46701-014
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/KG	units	UG/KG	units	UG/KG
Pct_Solids	82.3	Pct_Solids	82.0	Pct_Solids	75.3
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	320	U	
4,4'-DDE	2000		
4,4'-DDT	8500		
ALDRIN	160	U	
ALPHA-BHC	160	U	
ALPHA-CHLORDANE	340		
BETA-BHC	160	U	
DELTA-BHC	160	UJ	E
DIELDRIN	320	U	
ENDOSULFAN I	160	U	
ENDOSULFAN II	320	U	
ENDOSULFAN SULFATE	320	U	
ENDRIN	320	U	
ENDRIN ALDEHYDE	320	U	
ENDRIN KETONE	320	U	
GAMMA-BHC (LINDANE)	160	U	
GAMMA-CHLORDANE	320		
HEPTACHLOR	160	U	
HEPTACHLOR EPOXIDE	160	U	
METHOXYCHLOR	1600	U	
TOXAPHENE	20000	U	

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	32000	U	
4,4'-DDE	32000	U	
4,4'-DDT	410000		
ALDRIN	16000	U	
ALPHA-BHC	16000	U	
ALPHA-CHLORDANE	16000	U	
BETA-BHC	16000	U	
DELTA-BHC	16000	UJ	E
DIELDRIN	32000	U	
ENDOSULFAN I	16000	U	
ENDOSULFAN II	32000	U	
ENDOSULFAN SULFATE	32000	U	
ENDRIN	32000	U	
ENDRIN ALDEHYDE	32000	U	
ENDRIN KETONE	32000	U	
GAMMA-BHC (LINDANE)	16000	U	
GAMMA-CHLORDANE	16000	U	
HEPTACHLOR	16000	U	
HEPTACHLOR EPOXIDE	16000	U	
METHOXYCHLOR	160000	U	
TOXAPHENE	2000000	U	

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	1700	U	
4,4'-DDE	6000		
4,4'-DDT	56000		
ALDRIN	840	U	
ALPHA-BHC	840	U	
ALPHA-CHLORDANE	840	U	
BETA-BHC	840	U	
DELTA-BHC	840	UJ	E
DIELDRIN	1700	U	
ENDOSULFAN I	840	U	
ENDOSULFAN II	1700	U	
ENDOSULFAN SULFATE	1700	U	
ENDRIN	1700	U	
ENDRIN ALDEHYDE	1700	U	
ENDRIN KETONE	1700	U	
GAMMA-BHC (LINDANE)	840	U	
GAMMA-CHLORDANE	840	U	
HEPTACHLOR	840	U	
HEPTACHLOR EPOXIDE	840	U	
METHOXYCHLOR	8400	U	
TOXAPHENE	110000	U	

PROJ_NO: 01019

SDG: TT46701 MEDIA: SOIL DATA FRACTION: PEST/PCB

nsample	09SS 123 0002	nsample	09SS 124 0002
samp_date	4/8/2008 10:46:00 AM	samp_date	4/8/2008 10:52:00 AM
lab_id	TT46701-015	lab_id	TT46701-016
qc_type	NM	qc_type	NM
units	UG/KG	units	UG/KG
Pct_Solids	74.8	Pct_Solids	83.7
DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	18000	U	
4,4'-DDE	18000	U	
4,4'-DDT	180000		
ALDRIN	8500	U	
ALPHA-BHC	8500	U	
ALPHA-CHLORDANE	8500	U	
BETA-BHC	8500	U	
DELTA-BHC	8500	UJ	E
DIELDRIN	18000	U	
ENDOSULFAN I	8500	U	
ENDOSULFAN II	18000	U	
ENDOSULFAN SULFATE	18000	U	
ENDRIN	18000	U	
ENDRIN ALDEHYDE	18000	U	
ENDRIN KETONE	18000	U	
GAMMA-BHC (LINDANE)	8500	U	
GAMMA-CHLORDANE	8500	U	
HEPTACHLOR	8500	U	
HEPTACHLOR EPOXIDE	8500	U	
METHOXYCHLOR	85000	U	
TOXAPHENE	1100000	U	

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	800	U	
4,4'-DDE	10000		
4,4'-DDT	29000		
ALDRIN	380	U	
ALPHA-BHC	380	U	
ALPHA-CHLORDANE	680	J	P
BETA-BHC	380	U	
DELTA-BHC	380	UJ	E
DIELDRIN	800	U	
ENDOSULFAN I	380	U	
ENDOSULFAN II	800	U	
ENDOSULFAN SULFATE	800	U	
ENDRIN	800	U	
ENDRIN ALDEHYDE	800	U	
ENDRIN KETONE	800	U	
GAMMA-BHC (LINDANE)	380	U	
GAMMA-CHLORDANE	750	J	P
HEPTACHLOR	380	U	
HEPTACHLOR EPOXIDE	380	U	
METHOXYCHLOR	3800	U	
TOXAPHENE	50000	U	

APPENDIX B

RESULTS AS REPORTED BY THE LABORATORY

1

PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

09FD0407080IRX-RX

Lab Name: Pace Analytical Services, In

Contract: N/A

SDG No.: TT46701

Run Sequence: R027909

Matrix: (SOIL/WATER) Soil

Lab Sample ID: TT46701-017RXRX

Sample wt/vol: 2.07 (g/mL) gm

Lab File ID: Q5070808.d

% Moisture: 24.4 Decanted: (Y/N) N

Date Collected: 04/07/2008

Extraction: (Type) PFEX

Date Extracted: 05/05/2008

Concentrated Extract Volume: 10000.0(uL)

Date Analyzed: 05/07/2008

Injection Volume: 0.5 (uL)

Dilution Factor: 100.0

GPC Cleanup: (Y/N) N pH:

Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
319-84-6	ALPHA-BHC	1200	U
319-85-7	BETA-BHC	1200	U
319-86-8	DELTA-BHC	1200	U
58-89-9	GAMMA-BHC	1200	U
76-44-8	HEPTACHLOR	1200	U
309-00-2	ALDRIN	1200	U
1024-57-3	HEPTACHLOR EPOXIDE	1200	U
959-98-8	ENDOSULFAN I	1200	U
60-57-1	DIELDRIN	2600	U
72-55-9	4,4'-DDE	2600	U
72-20-8	ENDRIN	2600	U
33213-65-9	ENDOSULFAN II	2600	U
72-54-8	4,4'-DDD	2600	U
1031-07-8	ENDOSULFAN SULFATE	2600	U
50-29-3	4,4'-DDT	11000	
72-43-5	METHOXYCHLOR	12000	U
7421-93-4	ENDRIN ALDEHYDE	2600	U
5103-71-9	ALPHA-CHLORDANE	1200	U
53494-70-5	ENDRIN KETONE	2600	U
5103-74-2	GAMMA-CHLORDANE	1200	U
8001-35-2	TOXAPHENE	160000	U

Comments:

1

PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

09SS 109 0002

Lab Name: Pace Analytical Services, In

Contract: N/A

SDG No.: TT46701

Run Sequence: R027267

Matrix: (SOIL/WATER) Soil

Lab Sample ID: TT46701-001

Sample wt/vol: 15.27 (g/mL) gm

Lab File ID: Q4150813.d

% Moisture: 8.3 Decanted: (Y/N) N

Date Collected: 04/07/2008

Extraction: (Type) PFEX

Date Extracted: 04/10/2008

Concentrated Extract Volume: 2500.0 (uL)

Date Analyzed: 04/15/2008

Injection Volume: 0.5 (uL)

Dilution Factor: 100.0

GPC Cleanup: (Y/N) Y pH:

Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
319-84-6	ALPHA-BHC	70	U
319-85-7	BETA-BHC	70	U
319-86-8	DELTA-BHC	70	U
58-89-9	GAMMA-BHC	70	U
76-44-8	HEPTACHLOR	70	U
309-00-2	ALDRIN	70	U
1024-57-3	HEPTACHLOR EPOXIDE	70	U
959-98-8	ENDOSULFAN I	70	U
60-57-1	DIELDRIN	140	U
72-55-9	4,4'-DDE	590	
72-20-8	ENDRIN	140	U
33213-65-9	ENDOSULFAN II	140	U
72-54-8	4,4'-DDD	140	U
1031-07-8	ENDOSULFAN SULFATE	140	U
50-29-3	4,4'-DDT	950	
72-43-5	METHOXYCHLOR	700	U
7421-93-4	ENDRIN ALDEHYDE	140	U
5103-71-9	ALPHA-CHLORDANE	70	U
53494-70-5	ENDRIN KETONE	140	U
5103-74-2	GAMMA-CHLORDANE	70	U
8001-35-2	TOXAPHENE	9100	U

Comments:

1

PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

09SS 110 0002

Lab Name: Pace Analytical Services, In

Contract: N/A

SDG No.: TT46701

Run Sequence: R027267

Matrix: (SOIL/WATER) Soil

Lab Sample ID: TT46701-002

Sample wt/vol: 15.22 (g/mL) gm

Lab File ID: Q4150821.d

% Moisture: 15.5 Decanted: (Y/N) N

Date Collected: 04/07/2008

Extraction: (Type) PFEX

Date Extracted: 04/10/2008

Concentrated Extract Volume: 2500.0 (uL)

Date Analyzed: 04/15/2008

Injection Volume: 0.5 (uL)

Dilution Factor: 400.0

GPC Cleanup: (Y/N) Y pH:

Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
319-84-6	ALPHA-BHC	300	U
319-85-7	BETA-BHC	300	U
319-86-8	DELTA-BHC	300	U
58-89-9	GAMMA-BHC	300	U
76-44-8	HEPTACHLOR	300	U
309-00-2	ALDRIN	300	U
1024-57-3	HEPTACHLOR EPOXIDE	300	U
959-98-8	ENDOSULFAN I	300	U
60-57-1	DIELDRIN	12000	
72-55-9	4,4'-DDE	20000	
72-20-8	ENDRIN	630	U
33213-65-9	ENDOSULFAN II	630	U
72-54-8	4,4'-DDD	14000	
1031-07-8	ENDOSULFAN SULFATE	630	U
50-29-3	4,4'-DDT	22000	
72-43-5	METHOXYCHLOR	3000	U
7421-93-4	ENDRIN ALDEHYDE	630	U
5103-71-9	ALPHA-CHLORDANE	520	J
53494-70-5	ENDRIN KETONE	630	U
5103-74-2	GAMMA-CHLORDANE	1100	P
8001-35-2	TOXAPHENE	40000	U

Comments:

1

PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

09SS 111 0002RX-RX

Lab Name: Pace Analytical Services, In

Contract: N/A

SDG No.: TT46701

Run Sequence: R027909

Matrix: (SOIL/WATER) Soil

Lab Sample ID: TT46701-003RXRX

Sample wt/vol: 2.30 (g/mL) gm

Lab File ID: Q5070806.d

% Moisture: 21.5 Decanted: (Y/N) N

Date Collected: 04/07/2008

Extraction: (Type) PFEX

Date Extracted: 05/05/2008

Concentrated Extract Volume: 10000.0(uL)

Date Analyzed: 05/07/2008

Injection Volume: 0.5 (uL)

Dilution Factor: 10000.0

GPC Cleanup: (Y/N) N pH:

Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
319-84-6	ALPHA-BHC	110000	U
319-85-7	BETA-BHC	110000	U
319-86-8	DELTA-BHC	110000	U
58-89-9	GAMMA-BHC	110000	U
76-44-8	HEPTACHLOR	110000	U
309-00-2	ALDRIN	110000	U
1024-57-3	HEPTACHLOR EPOXIDE	110000	U
959-98-8	ENDOSULFAN I	110000	U
60-57-1	DIELDRIN	220000	U
72-55-9	4,4'-DDE	220000	U
72-20-8	ENDRIN	220000	U
33213-65-9	ENDOSULFAN II	220000	U
72-54-8	4,4'-DDD	220000	U
1031-07-8	ENDOSULFAN SULFATE	220000	U
50-29-3	4,4'-DDT	1700000	
72-43-5	METHOXYCHLOR	1100000	U
7421-93-4	ENDRIN ALDEHYDE	220000	U
5103-71-9	ALPHA-CHLORDANE	110000	U
53494-70-5	ENDRIN KETONE	220000	U
5103-74-2	GAMMA-CHLORDANE	110000	U
8001-35-2	TOXAPHENE	14000000	U

Comments:

PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

09SS 112 0002

Lab Name: Pace Analytical Services, In

Contract: N/A

SDG No.: TT46701

Run Sequence: RG27267

Matrix: (SOIL/WATER) Soil

Lab Sample ID: TT46701-004

Sample wt/vol: 15.18 (g/mL) gm

Lab File ID: Q4150814.d

% Moisture: 17.7 Decanted: (Y/N) N

Date Collected: 04/07/2008

Extraction: (Type) PFEX

Date Extracted: 04/10/2008

Concentrated Extract Volume: 2500.0 (uL)

Date Analyzed: 04/15/2008

Injection Volume: 0.5 (uL)

Dilution Factor: 100.0

GPC Cleanup: (Y/N) Y pH:

Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
319-84-6	ALPHA-BHC	78	U
319-85-7	BETA-BHC	78	U
319-86-8	DELTA-BHC	78	U
58-89-9	GAMMA-BHC	78	U
76-44-8	HEPTACHLOR	78	U
309-00-2	ALDRIN	78	U
1024-57-3	HEPTACHLOR EPOXIDE	78	U
959-98-8	ENDOSULFAN I	78	U
60-57-1	DIELDRIN	160	U
72-55-9	4,4'-DDE	940	
72-20-8	ENDRIN	160	U
33213-65-9	ENDOSULFAN II	160	U
72-54-8	4,4'-DDD	160	U
1031-07-8	ENDOSULFAN SULFATE	160	U
50-29-3	4,4'-DDT	4700	
72-43-5	METHOXYCHLOR	780	U
7421-93-4	ENDRIN ALDEHYDE	160	U
5103-71-9	ALPHA-CHLORDANE	78	U
53494-70-5	ENDRIN KETONE	160	U
5103-74-2	GAMMA-CHLORDANE	78	U
8001-35-2	TOXAPHENE	10000	U

Comments:

1

PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

09SS 113 0002

Lab Name: Pace Analytical Services, In

Contract: N/A

SDG No.: TT46701

Run Sequence: R027267

Matrix: (SOIL/WATER) Soil

Lab Sample ID: TT46701-005

Sample wt/vol: 15.24 (g/mL) gm

Lab File ID: Q4150817.d

% Moisture: 32.6 Decanted: (Y/N) N

Date Collected: 04/07/2008

Extraction: (Type) PFEX

Date Extracted: 04/10/2008

Concentrated Extract Volume: 2500.0 (uL)

Date Analyzed: 04/15/2008

Injection Volume: 0.5 (uL)

Dilution Factor: 100.0

GPC Cleanup: (Y/N) Y pH:

Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
319-84-6	ALPHA-BHC	95	U
319-85-7	BETA-BHC	95	U
319-86-8	DELTA-BHC	95	U
58-89-9	GAMMA-BHC	95	U
76-44-8	HEPTACHLOR	95	U
309-00-2	ALDRIN	95	U
1024-57-3	HEPTACHLOR EPOXIDE	95	U
959-98-8	ENDOSULFAN I	95	U
60-57-1	DIELDRIN	200	U
72-55-9	4,4'-DDE	200	U
72-20-8	ENDRIN	200	U
33213-65-9	ENDOSULFAN II	200	U
72-54-8	4,4'-DDD	200	U
1031-07-8	ENDOSULFAN SULFATE	200	U
50-29-3	4,4'-DDT	1200	
72-43-5	METHOXYCHLOR	950	U
7421-93-4	ENDRIN ALDEHYDE	200	U
5103-71-9	ALPHA-CHLORDANE	95	U
53494-70-5	ENDRIN KETONE	200	U
5103-74-2	GAMMA-CHLORDANE	95	U
8001-35-2	TOXAPHENE	12000	U

Comments:

1

PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

09SS 114 0002

Lab Name: Pace Analytical Services, In

Contract: N/A

SDG No.: TT46701

Run Sequence: R027267

Matrix: (SOIL/WATER) Soil

Lab Sample ID: TT46701-006

Sample wt/vol: 15.23 (g/mL) gm

Lab File ID: Q5160812.d

% Moisture: 28.3 Decanted: (Y/N) N

Date Collected: 04/07/2008

Extraction: (Type) PFEX

Date Extracted: 04/10/2008

Concentrated Extract Volume: 2500.0 (uL)

Date Analyzed: 05/16/2008

Injection Volume: 0.5 (uL)

Dilution Factor: 50000.0

GPC Cleanup: (Y/N) Y pH:

Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
319-84-6	ALPHA-BHC	45000	U
319-85-7	BETA-BHC	45000	U
319-86-8	DELTA-BHC	45000	U
58-89-9	GAMMA-BHC	45000	U
76-44-8	HEPTACHLOR	45000	U
309-00-2	ALDRIN	45000	U
1024-57-3	HEPTACHLOR EPOXIDE	45000	U
959-98-8	ENDOSULFAN I	45000	U
60-57-1	DIELDRIN	93000	U
72-55-9	4,4'-DDE	93000	U
72-20-8	ENDRIN	93000	U
33213-65-9	ENDOSULFAN II	93000	U
72-54-8	4,4'-DDD	93000	U
1031-07-8	ENDOSULFAN SULFATE	93000	U
50-29-3	4,4'-DDT	680000	
72-43-5	METHOXYCHLOR	450000	U
7421-93-4	ENDRIN ALDEHYDE	93000	U
5103-71-9	ALPHA-CHLORDANE	45000	U
53494-70-5	ENDRIN KETONE	93000	U
5103-74-2	GAMMA-CHLORDANE	45000	U
8001-35-2	TOXAPHENE	5800000	U

Comments:

1

PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

09SS 115 0002

Lab Name: Pace Analytical Services, In

Contract: N/A

SDG No.: TT46701

Run Sequence: R027267

Matrix: (SOIL/WATER) Soil

Lab Sample ID: TT46701-007

Sample wt/vol: 15.32 (g/mL) gm

Lab File ID: Q5160813.d

% Moisture: 24.9 Decanted: (Y/N) N

Date Collected: 04/07/2008

Extraction: (Type) PFEX

Date Extracted: 04/10/2008

Concentrated Extract Volume: 2500.0 (uL)

Date Analyzed: 05/16/2008

Injection Volume: 0.5 (uL)

Dilution Factor: 20000.0

GPC Cleanup: (Y/N) Y pH:

Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
319-84-6	ALPHA-BHC	17000	U
319-85-7	BETA-BHC	17000	U
319-86-8	DELTA-BHC	17000	U
58-89-9	GAMMA-BHC	17000	U
76-44-8	HEPTACHLOR	17000	U
309-00-2	ALDRIN	17000	U
1024-57-3	HEPTACHLOR EPOXIDE	17000	U
959-98-8	ENDOSULFAN I	17000	U
60-57-1	DIELDRIN	35000	U
72-55-9	4,4'-DDE	35000	U
72-20-8	ENDRIN	35000	U
33213-65-9	ENDOSULFAN II	35000	U
72-54-8	4,4'-DDD	35000	U
1031-07-8	ENDOSULFAN SULFATE	35000	U
50-29-3	4,4'-DDT	520000	
72-43-5	METHOXYCHLOR	170000	U
7421-93-4	ENDRIN ALDEHYDE	35000	U
5103-71-9	ALPHA-CHLORDANE	17000	U
53494-70-5	ENDRIN KETONE	35000	U
5103-74-2	GAMMA-CHLORDANE	17000	U
8001-35-2	TOXAPHENE	2200000	U

Comments:

1

PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

09SS 116 0002RX-RX

Lab Name: Pace Analytical Services, In

Contract: N/A

SDG No.: TT46701

Run Sequence: R027909

Matrix: (SOIL/WATER) Soil

Lab Sample ID: TT46701-008RXRX

Sample wt/vol: 2.04 (g/mL) gm

Lab File ID: Q5070807.d

% Moisture: 23.2 Decanted: (Y/N) N

Date Collected: 04/07/2008

Extraction: (Type) PFEX

Date Extracted: 05/05/2008

Concentrated Extract Volume: 10000.0(uL)

Date Analyzed: 05/07/2008

Injection Volume: 0.5 (uL)

Dilution Factor: 50.0

GPC Cleanup: (Y/N) N pH:

Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
319-84-6	ALPHA-BHC	620	U
319-85-7	BETA-BHC	620	U
319-86-8	DELTA-BHC	620	U
58-89-9	GAMMA-BHC	620	U
76-44-8	HEPTACHLOR	620	U
309-00-2	ALDRIN	620	U
1024-57-3	HEPTACHLOR EPOXIDE	620	U
959-98-8	ENDOSULFAN I	620	U
60-57-1	DIELDRIN	1300	U
72-55-9	4,4'-DDE	1300	U
72-20-8	ENDRIN	1300	U
33213-65-9	ENDOSULFAN II	1300	U
72-54-8	4,4'-DDD	1300	U
1031-07-8	ENDOSULFAN SULFATE	1300	U
50-29-3	4,4'-DDT	11000	
72-43-5	METHOXYCHLOR	6200	U
7421-93-4	ENDRIN ALDEHYDE	1300	U
5103-71-9	ALPHA-CHLORDANE	620	U
53494-70-5	ENDRIN KETONE	1300	U
5103-74-2	GAMMA-CHLORDANE	620	U
8001-35-2	TOXAPHENE	81000	U

Comments:

1

PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

09SS 117 0002RX-RX

Lab Name: Pace Analytical Services, In

Contract: N/A

SDG No.: TT46701

Run Sequence: R027909

Matrix: (SOIL/WATER) Soil

Lab Sample ID: TT46701-009RXRX

Sample wt/vol: 15.3 (g/mL) gm

Lab File ID: Q5060818.d

% Moisture: 28.7 Decanted: (Y/N) N

Date Collected: 04/07/2008

Extraction: (Type) PFEX

Date Extracted: 05/05/2008

Concentrated Extract Volume: 10000.0(uL)

Date Analyzed: 05/06/2008

Injection Volume: 0.5 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
319-84-6	ALPHA-BHC	1.8	U
319-85-7	BETA-BHC	1.8	U
319-86-8	DELTA-BHC	1.8	U
58-89-9	GAMMA-BHC	1.8	U
76-44-8	HEPTACHLOR	1.8	U
309-00-2	ALDRIN	1.8	U
1024-57-3	HEPTACHLOR EPOXIDE	1.8	U
959-98-8	ENDOSULFAN I	1.8	U
60-57-1	DIELDRIN	3.7	U
72-55-9	4,4'-DDE	16	
72-20-8	ENDRIN	3.7	U
33213-65-9	ENDOSULFAN II	3.7	U
72-54-8	4,4'-DDD	3.7	U
1031-07-8	ENDOSULFAN SULFATE	3.7	U
50-29-3	4,4'-DDT	16	
72-43-5	METHOXYCHLOR	18	U
7421-93-4	ENDRIN ALDEHYDE	3.7	U
5103-71-9	ALPHA-CHLORDANE	1.8	U
53494-70-5	ENDRIN KETONE	3.7	U
5103-74-2	GAMMA-CHLORDANE	1.8	U
8001-35-2	TOXAPHENE	230	U

Comments:

1
PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
09SS 118 0002RX-RX

Lab Name: Pace Analytical Services, In
Contract: N/A
SDG No.: TT46701
Run Sequence: R027909
Matrix: (SOIL/WATER) Soil
Lab Sample ID: TT46701-010RXRX
Sample wt/vol: 15.2 (g/mL) gm
Lab File ID: Q5060819.d
% Moisture: 24.1 Decanted: (Y/N) N
Date Collected: 04/07/2008
Extraction: (Type) PFEX
Date Extracted: 05/05/2008
Concentrated Extract Volume: 10000.0(uL)
Date Analyzed: 05/06/2008
Injection Volume: 0.5 (uL)
Dilution Factor: 4.0
GPC Cleanup: (Y/N) N pH:
Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
319-84-6	ALPHA-BHC	6.8	U
319-85-7	BETA-BHC	6.8	U
319-86-8	DELTA-BHC	6.8	U
58-89-9	GAMMA-BHC	6.8	U
76-44-8	HEPTACHLOR	6.8	U
309-00-2	ALDRIN	6.8	U
1024-57-3	HEPTACHLOR EPOXIDE	6.8	U
959-98-8	ENDOSULFAN I	6.8	U
60-57-1	DIELDRIN	14	U
72-55-9	4,4'-DDE	92	
72-20-8	ENDRIN	14	U
33213-65-9	ENDOSULFAN II	14	U
72-54-8	4,4'-DDD	14	U
1031-07-8	ENDOSULFAN SULFATE	14	U
50-29-3	4,4'-DDT	70	
72-43-5	METHOXYCHLOR	68	U
7421-93-4	ENDRIN ALDEHYDE	14	U
5103-71-9	ALPHA-CHLORDANE	6.8	U
53494-70-5	ENDRIN KETONE	14	U
5103-74-2	GAMMA-CHLORDANE	6.8	U
8001-35-2	TOXAPHENE	880	U

Comments:

1

PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

09SS 119 0002

Lab Name: Pace Analytical Services, In

Contract: N/A

SDG No.: TT46701

Run Sequence: R027267

Matrix: (SOIL/WATER) Soil

Lab Sample ID: TT46701-011

Sample wt/vol: 15.25 (g/mL) gm

Lab File ID: Q4150818.d

% Moisture: 26.1 Decanted: (Y/N) N

Date Collected: 04/08/2008

Extraction: (Type) PFEX

Date Extracted: 04/10/2008

Concentrated Extract Volume: 2500.0 (uL)

Date Analyzed: 04/15/2008

Injection Volume: 0.5 (uL)

Dilution Factor: 200.0

GPC Cleanup: (Y/N) Y pH:

Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
319-84-6	ALPHA-BHC	170	U
319-85-7	BETA-BHC	170	U
319-86-8	DELTA-BHC	170	U
58-89-9	GAMMA-BHC	170	U
76-44-8	HEPTACHLOR	170	U
309-00-2	ALDRIN	170	U
1024-57-3	HEPTACHLOR EPOXIDE	170	U
959-98-8	ENDOSULFAN I	170	U
60-57-1	DIELDRIN	360	U
72-55-9	4,4'-DDE	3200	
72-20-8	ENDRIN	360	U
33213-65-9	ENDOSULFAN II	360	U
72-54-8	4,4'-DDD	360	U
1031-07-8	ENDOSULFAN SULFATE	360	U
50-29-3	4,4'-DDT	8800	
72-43-5	METHOXYCHLOR	1700	U
7421-93-4	ENDRIN ALDEHYDE	360	U
5103-71-9	ALPHA-CHLORDANE	210	J
53494-70-5	ENDRIN KETONE	360	U
5103-74-2	GAMMA-CHLORDANE	220	J
8001-35-2	TOXAPHENE	23000	U

Comments:

1

PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

09SS 120 0002

Lab Name: Pace Analytical Services, In

Contract: N/A

SDG No.: TT46701

Run Sequence: R027267

Matrix: (SOIL/WATER) Soil

Lab Sample ID: TT46701-012

Sample wt/vol: 15.23 (g/mL) gm

Lab File ID: Q4150819.d

% Moisture: 17.7 Decanted: (Y/N) N

Date Collected: 04/08/2008

Extraction: (Type) PFEX

Date Extracted: 04/10/2008

Concentrated Extract Volume: 2500.0 (uL)

Date Analyzed: 04/15/2008

Injection Volume: 0.5 (uL)

Dilution Factor: 200.0

GPC Cleanup: (Y/N) Y pH:

Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
319-84-6	ALPHA-BHC	160	U
319-85-7	BETA-BHC	160	U
319-86-8	DELTA-BHC	160	U
58-89-9	GAMMA-BHC	160	U
76-44-8	HEPTACHLOR	160	U
309-00-2	ALDRIN	160	U
1024-57-3	HEPTACHLOR EPOXIDE	160	U
959-98-8	ENDOSULFAN I	160	U
60-57-1	DIELDRIN	320	U
72-55-9	4,4'-DDE	2000	
72-20-8	ENDRIN	320	U
33213-65-9	ENDOSULFAN II	320	U
72-54-8	4,4'-DDD	320	U
1031-07-8	ENDOSULFAN SULFATE	320	U
50-29-3	4,4'-DDT	8500	
72-43-5	METHOXYCHLOR	1600	U
7421-93-4	ENDRIN ALDEHYDE	320	U
5103-71-9	ALPHA-CHLORDANE	340	
53494-70-5	ENDRIN KETONE	320	U
5103-74-2	GAMMA-CHLORDANE	320	
8001-35-2	TOXAPHENE	20000	U

Comments:

1

PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

09SS 121 0002

Lab Name: Pace Analytical Services, In

Contract: N/A

SDG No.: TT46701

Run Sequence: R027267

Matrix: (SOIL/WATER) Soil

Lab Sample ID: TT46701-013

Sample wt/vol: 15.22 (g/mL) gm

Lab File ID: Q5160814.d

% Moisture: 18.0 Decanted: (Y/N) N

Date Collected: 04/08/2008

Extraction: (Type) PFEX

Date Extracted: 04/10/2008

Concentrated Extract Volume: 2500.0 (uL)

Date Analyzed: 05/16/2008

Injection Volume: 0.5 (uL)

Dilution Factor: 20000.0

GPC Cleanup: (Y/N) Y pH:

Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
319-84-6	ALPHA-BHC	16000	U
319-85-7	BETA-BHC	16000	U
319-86-8	DELTA-BHC	16000	U
58-89-9	GAMMA-BHC	16000	U
76-44-8	HEPTACHLOR	16000	U
309-00-2	ALDRIN	16000	U
1024-57-3	HEPTACHLOR EPOXIDE	16000	U
959-98-8	ENDOSULFAN I	16000	U
60-57-1	DIELDRIN	32000	U
72-55-9	4,4'-DDE	32000	U
72-20-8	ENDRIN	32000	U
33213-65-9	ENDOSULFAN II	32000	U
72-54-8	4,4'-DDD	32000	U
1031-07-8	ENDOSULFAN SULFATE	32000	U
50-29-3	4,4'-DDT	410000	
72-43-5	METHOXYCHLOR	160000	U
7421-93-4	ENDRIN ALDEHYDE	32000	U
5103-71-9	ALPHA-CHLORDANE	16000	U
53494-70-5	ENDRIN KETONE	32000	U
5103-74-2	GAMMA-CHLORDANE	16000	U
8001-35-2	TOXAPHENE	2000000	U

Comments:

1

PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

09SS 122 0002

Lab Name: Pace Analytical Services, In

Contract: N/A

SDG No.: TT46701

Run Sequence: R027267

Matrix: (SOIL/WATER) Soil

Lab Sample ID: TT46701-014

Sample wt/vol: 15.43 (g/mL) gm

Lab File ID: Q5160815.d

% Moisture: 24.7 Decanted: (Y/N) N

Date Collected: 04/08/2008

Extraction: (Type) PFEX

Date Extracted: 04/10/2008

Concentrated Extract Volume: 2500.0 (uL)

Date Analyzed: 05/16/2008

Injection Volume: 0.5 (uL)

Dilution Factor: 1000.0

GPC Cleanup: (Y/N) Y pH:

Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
319-84-6	ALPHA-BHC	840	U
319-85-7	BETA-BHC	840	U
319-86-8	DELTA-BHC	840	U
58-89-9	GAMMA-BHC	840	U
76-44-8	HEPTACHLOR	840	U
309-00-2	ALDRIN	840	U
1024-57-3	HEPTACHLOR EPOXIDE	840	U
959-98-8	ENDOSULFAN I	840	U
60-57-1	DIELDRIN	1700	U
72-55-9	4,4'-DDE	6000	
72-20-8	ENDRIN	1700	U
33213-65-9	ENDOSULFAN II	1700	U
72-54-8	4,4'-DDD	1700	U
1031-07-8	ENDOSULFAN SULFATE	1700	U
50-29-3	4,4'-DDT	56000	
72-43-5	METHOXYCHLOR	8400	U
7421-93-4	ENDRIN ALDEHYDE	1700	U
5103-71-9	ALPHA-CHLORDANE	840	U
53494-70-5	ENDRIN KETONE	1700	U
5103-74-2	GAMMA-CHLORDANE	840	U
8001-35-2	TOXAPHENE	110000	U

Comments:

1

PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

09SS 123 0002

Lab Name: Pace Analytical Services, In

Contract: N/A

SDG No.: TT46701

Run Sequence: R027267

Matrix: (SOIL/WATER) Soil

Lab Sample ID: TT46701-015

Sample wt/vol: 15.3 (g/mL) gm

Lab File ID: Q5160816.d

% Moisture: 25.2 Decanted: (Y/N) N

Date Collected: 04/08/2008

Extraction: (Type) PFEX

Date Extracted: 04/10/2008

Concentrated Extract Volume: 2500.0 (uL)

Date Analyzed: 05/16/2008

Injection Volume: 0.5 (uL)

Dilution Factor: 10000.0

GPC Cleanup: (Y/N) Y pH:

Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
319-84-6	ALPHA-BHC	8500	U
319-85-7	BETA-BHC	8500	U
319-86-8	DELTA-BHC	8500	U
58-89-9	GAMMA-BHC	8500	U
76-44-8	HEPTACHLOR	8500	U
309-00-2	ALDRIN	8500	U
1024-57-3	HEPTACHLOR EPOXIDE	8500	U
959-98-8	ENDOSULFAN I	8500	U
60-57-1	DIELDRIN	18000	U
72-55-9	4,4'-DDE	18000	U
72-20-8	ENDRIN	18000	U
33213-65-9	ENDOSULFAN II	18000	U
72-54-8	4,4'-DDD	18000	U
1031-07-8	ENDOSULFAN SULFATE	18000	U
50-29-3	4,4'-DDT	180000	
72-43-5	METHOXYCHLOR	85000	U
7421-93-4	ENDRIN ALDEHYDE	18000	U
5103-71-9	ALPHA-CHLORDANE	8500	U
53494-70-5	ENDRIN KETONE	18000	U
5103-74-2	GAMMA-CHLORDANE	8500	U
8001-35-2	TOXAPHENE	1100000	U

Comments:

1

PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

09SS 124 0002

Lab Name: Pace Analytical Services, In

Contract: N/A

SDG No.: TT46701

Run Sequence: R027267

Matrix: (SOIL/WATER) Soil

Lab Sample ID: TT46701-016

Sample wt/vol: 15.19 (g/mL) gm

Lab File ID: Q4150822.d

% Moisture: 16.3 Decanted: (Y/N) N

Date Collected: 04/08/2008

Extraction: (Type) PFEX

Date Extracted: 04/10/2008

Concentrated Extract Volume: 2500.0 (uL)

Date Analyzed: 04/15/2008

Injection Volume: 0.5 (uL)

Dilution Factor: 500.0

GPC Cleanup: (Y/N) Y pH:

Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
319-84-6	ALPHA-BHC	380	U
319-85-7	BETA-BHC	380	U
319-86-8	DELTA-BHC	380	U
58-89-9	GAMMA-BHC	380	U
76-44-8	HEPTACHLOR	380	U
309-00-2	ALDRIN	380	U
1024-57-3	HEPTACHLOR EPOXIDE	380	U
959-98-8	ENDOSULFAN I	380	U
60-57-1	DIELDRIN	800	U
72-55-9	4,4'-DDE	10000	
72-20-8	ENDRIN	800	U
33213-65-9	ENDOSULFAN II	800	U
72-54-8	4,4'-DDD	800	U
1031-07-8	ENDOSULFAN SULFATE	800	U
50-29-3	4,4'-DDT	29000	
72-43-5	METHOXYCHLOR	3800	U
7421-93-4	ENDRIN ALDEHYDE	800	U
5103-71-9	ALPHA-CHLORDANE	680	J
53494-70-5	ENDRIN KETONE	800	U
5103-74-2	GAMMA-CHLORDANE	750	J
8001-35-2	TOXAPHENE	50000	U

Comments:

APPENDIX C

SUPPORT DOCUMENTATION

HOLDTIME

SDG TT46701

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
PEST	UG/KG	09SS 117 0002	TT46701-009RXR	NM	4/7/2008	5/5/2008	5/6/2008	27.84	1.167	29.01
PEST	UG/KG	09SS 109 0002	TT46701-001	NM	4/7/2008	4/10/2008	4/15/2008	2.819	5.125	7.944
PEST	UG/KG	09SS 110 0002	TT46701-002	NM	4/7/2008	4/10/2008	4/15/2008	2.809	5.308	8.117
PEST	UG/KG	09SS 111 0002	TT46701-003RXR	NM	4/7/2008	5/5/2008	5/7/2008	27.90	1.865	29.77
PEST	UG/KG	09SS 112 0002	TT46701-004	NM	4/7/2008	4/10/2008	4/15/2008	2.799	5.148	7.947
PEST	UG/KG	09SS 113 0002	TT46701-005	NM	4/7/2008	4/10/2008	4/15/2008	2.778	5.217	7.994
PEST	UG/KG	09SS 114 0002	TT46701-006	NM	4/7/2008	4/10/2008	5/16/2008	2.771	36.21	38.99
PEST	UG/KG	09FD04070801	TT46701-017RXR	NM	4/7/2008	5/5/2008	5/7/2008	28.62	1.911	30.53
PEST	UG/KG	09SS 116 0002	TT46701-008RXR	NM	4/7/2008	5/5/2008	5/7/2008	27.86	1.888	29.74
PEST	UG/KG	09SS 124 0002	TT46701-016	NM	4/8/2008	4/10/2008	4/15/2008	2.068	5.332	7.400
PEST	UG/KG	09SS 118 0002	TT46701-010RXR	NM	4/7/2008	5/5/2008	5/6/2008	27.85	1.19	29.04
PEST	UG/KG	09SS 119 0002	TT46701-011	NM	4/8/2008	4/10/2008	4/15/2008	2.090	5.24	7.33
PEST	UG/KG	09SS 120 0002	TT46701-012	NM	4/8/2008	4/10/2008	4/15/2008	2.085	5.262	7.348
PEST	UG/KG	09SS 121 0002	TT46701-013	NM	4/8/2008	4/10/2008	5/16/2008	2.081	36.26	38.34
PEST	UG/KG	09SS 122 0002	TT46701-014	NM	4/8/2008	4/10/2008	5/16/2008	2.076	36.28	38.36

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
PEST	UG/KG	09SS 123 0002	TT46701-015	NM	4/8/2008	4/10/2008	5/16/2008	2.072	36.31	38.38
PEST	UG/KG	09SS 115 0002	TT46701-007	NM	4/7/2008	4/10/2008	5/16/2008	2.764	36.24	39.00

TT46701 TF02003 JH 4/10/08

TETRA TECH NUS, INC. CHAIN OF CUSTODY | NUMBER 0190 | PAGE 1 OF 3

PROJECT NO:	FACILITY:	PROJECT MANAGER	PHONE NUMBER	LABORATORY NAME AND CONTACT:
112G01019	NSWC Crane	S. Ruffino	412 921 8989	Pace / Hugh Prendiga
SAMPLERS (SIGNATURE)		FIELD OPERATIONS LEADER	PHONE NUMBER	ADDRESS
[signature]		J. Goerdt	4129218425	940 So. Harney St.
		CARRIER/WAYBILL NUMBER		CITY, STATE
		FedEx/ 861658315875		Seattle, WA

STANDARD TAT ☐ → as noted
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☒ 72 hr. ☐ 7 day ☐ 14 day

CONTAINER TYPE PLASTIC (P) or GLASS (G): G
PRESERVATIVE USED: 4°C

TYPE OF ANALYSIS: Pesticides SW-846 8081A

	DATE YEAR 2008	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAB (G) COMP (C)	No. OF CONTAINERS									COMMENTS
1	4/7	1650	0955 109 0002	109	0	2	SO	G	1	1								72 hr.
2	4/7	1705	0955 110 0002	110					1	1								72 hr.
3	4/7	1710	0955 111 0002	111					1	1								72 hr.
4	4/7	1720	0955 112 0002	112					1	1								72 hr.
5	4/7	1750	0955 113 0002	113					1	1								72 hr.
6	4/7	1800	0955 114 0002	114					1	1								72 hr.
7	4/7	1810	0955 115 0002	115					1	1								72 hr.
8	4/7	1817	0955 116 0002	116					1	1								72 hr.
9	4/7	1825	0955 117 0002	117					1	1								72 hr.
10	4/7	1825	0955 118 0002	118					1	1								72 hr.
11	4/8	1020	0955 119 0002	119					1	1								~~48 hr.~~ 72 hr.
12	4/8	1027	0955 120 0002	120					1	1								~~48 hr.~~ 72 hr.
13	4/8	1033	0955 121 0002	121	✓	✓	✓	✓	1	1								~~48 hr.~~ 72 hr.

	DATE	TIME		DATE	TIME
1. RELINQUISHED BY: J. Goerdt	4-9-08	1000	1. RECEIVED BY: [signature]	4-10-08	700
2. RELINQUISHED BY			2. RECEIVED BY		
3. RELINQUISHED BY			3. RECEIVED BY		

COMMENTS: All samples with "hold" comments not to be analyzed until authorized by Tetra Tech personnel. All sample IDs are to be "SS" and not "SB" as labeled. No subsurface samples were collected.

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

4/02R
FORM NO. TtNUS-001

TT46761 - IT02003 JM 4/10/03

TETRA TECH NUS, INC. CHAIN OF CUSTODY | NUMBER 0191 | PAGE 2 OF 3

10

PROJECT NO:	FACILITY:	PROJECT MANAGER	PHONE NUMBER	LABORATORY NAME AND CONTACT:
112G01019	NSWC Crane	S. Ruffino	4129218989	Pace / Hugh Prentice
SAMPLERS (SIGNATURE)		FIELD OPERATIONS LEADER	PHONE NUMBER	ADDRESS
		J. Geraci	4129218425	940 So Harney St
		CARRIER/WAYBILL NUMBER		CITY, STATE
		Fed Ex/8616583158 75		Seattle, WA

STANDARD TAT ☐ per note 2
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☒ 72 hr. ☐ 7 day ☐ 14 day

CONTAINER TYPE PLASTIC (P) or GLASS (G): G
PRESERVATIVE USED: 4°C

	DATE YEAR 2008	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAB (G) COMP (C)	No. OF CONTAINERS	TYPE OF ANALYSIS: PCB's 8082								COMMENTS
14	4/8	1040	09SS122 0002	122	0	2	SO	G	1	1								72 hr.
15	4/8	1046	09SS123 0002	123					1	1								72 hr.
16	4/8	1052	09SS124 0002	124					3	3								72 hr. MS/MSD
	4/8	1250	09SS125 0002	125					1	1								Hold
	4/8	1259	09SS126 0002	126					1	1								Hold
	4/8	1315	09SS127 0002	127					1	1								Hold
	4/8	1320	09SS128 0002	128					1	1								Hold
	4/8	1425	09SS129 0002	129					1	1								Hold
	4/8	1433	09SS130 0002	130					1	1								Hold
	4/8	1325	09SS131 0002	131					1	1								Hold
	4/8	1720	09SS132 0002	132					1	1								Hold
	4/8	1335	09SS133 0002	133					1	1								Hold
	4/8	1345	09SS134 0002	134	✓	✓	✓	✓	1	1								Hold

1. RELINQUISHED BY	DATE	TIME	1. RECEIVED BY	DATE	TIME
J. Geraci	4-9-08	1000			
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME
			[signature]	4-10-08	1020

COMMENTS See Pg. 1 comments.

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

4/02R
FORM NO. TtNUS-001

TETRA TECH NUS, INC. CHAIN OF CUSTODY | NUMBER 0192 | PAGE 3 OF 3

PROJECT NO:	FACILITY:	PROJECT MANAGER	PHONE NUMBER	LABORATORY NAME AND CONTACT:
112G01019	NSWC Crane	S. Ruffing	4129218959	Pace - Hugh Prentice
SAMPLERS (SIGNATURE)		FIELD OPERATIONS LEADER	PHONE NUMBER	ADDRESS
		J. Goerdt	4129218245	940 So Harney St
		CARRIER/WAYBILL NUMBER		CITY, STATE
		FedEx/861658315875		Seattle, WA

STANDARD TAT ☐
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☒ 72 hr. ☐ 7 day ☐ 14 day
72 as noted

CONTAINER TYPE PLASTIC (P) or GLASS (G): G
PRESERVATIVE USED: 4oC

DATE YEAR 2008	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAB (G) COMP (C)	No. OF CONTAINERS	TYPE OF ANALYSIS: Pesticides SW 846 8081A								COMMENTS
4/8	1440	0955 135 0002	135	0	2	SO	G	1	1								Hold
4/8	1447	0955 136 0002	136					1	1								Hold
4/8	1500	0955 137 0002	137					1	1								Hold
4/8	1100	0955 138 0002	138					1	1								Hold
4/8	1105	0955 139 0002	139					1	1								Hold
17 4/7	0000	09 FD040708 0	QC					1	1								72 hr.
4/8	0000	09 FD040808 01	QC					1	1								Hold
4/8	1800	09RB040808	QC	NA	NA	QC		1	1								

1. RELINQUISHED BY J. Goerdt	DATE 4-9-08	TIME 1000	1. RECEIVED BY	DATE 4-10-08	TIME 900
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS See pg. 1 comments

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

4/02R
FORM NO. TINUS-001

Cooler Receipt Form
Pace Analytical Services, Inc.

SDG:	TT46701	Taken By:	Client
Cooler:	aad584	Transferred:	Fed/Ex
COC #:	0190, 0191, 0192		
Project:	CTO 0467 NSWC Crane (Tetra Tech NUS, Inc.)		

Date samples were received at the laboratory: **4/10/2008**

Date cooler was opened: **4/10/2008 9:00AM**

A. PRELIMINARY EXAMINATION PHASE:

1. Did cooler come with a shipping slip (airbill, etc.)? ..... **YES**
   if YES, record carrier name and airbill number: **Fed/Ex 861658315875**
2. Were custody seals unbroken and intact at the date and time of arrival? ..... **INTACT**
   Date On Custody Seal: **4/9/2008** Custody Seals Description: **1 front, 1 back**
3. Were custody papers sealed in a plastic bag and taped inside to the lid? ..... **YES**
4. Did you screen samples for radioactivity using the Geiger Counter? ..... **NO**
5. Were custody papers filled out properly (ink, signed, etc.)? ..... **YES**
6. Did you sign custody papers in the appropriate place? ..... **YES**
7. If required, was enough cooling material present? ..... **YES**
8. Have designated person initial here to acknowledge receipt of cooler: JM

B. LOG-IN PHASE:

Date samples were logged-in: **4/10/2008 9:00AM**

Logged-in by Jennifer Millsap (sign) [signature]

9. Describe type of packing in cooler:

   Ice

10. Were all bottles sealed in separate plastic bags? ..... **YES**
11. Were labels in good condition? ..... **YES**
12. Were all bottle labels complete (ID,date,time signature,preservative,etc.)? ..... **YES**
13. Did all bottle labels agree with custody papers? ..... **NO**
14. Were correct containers used for the tests indicated? ..... **YES**
15. Were the correct pHs observed? ..... **YES**
16. Was a sufficient amount of sample sent for tests indicated? ..... **YES**
17. Were bubbles absent in VOA samples? ..... **YES**
18. Temperatures: **2.0**

DISCREPANCIES:

The sample ID's on the COC stated SS, the bottles all stated SB. Samples were logged in as SS.

Sample 09SS 124 0002, for MS/MSD 1 of 3 jars was dry sample, 2 of 3 jars contained free flowing water.

Date Printed: 4/10/2008 10:25

QC Outlier Report: Holding Times

Lab Report Batch: TT46701 **Lab ID:** PACE

					Actual Holding Time			Criteria				Reported Dates (and Times)		
Client Sample ID	Lab Sample ID	Analysis Method	Matrix	Prep Method	Coll To Prep	Prep To Ana	Coll To Ana	Coll To Prep	Prep To Ana	Coll To Ana	Unit of Meas	Collection Date	Preparation Date	Analysis Date
09FD04070801	TT46701-017RXRX	8081A	SO	3545	28.0	2.0		14	40		Days	04/07/2008	05/05/2008	05/07/2008
09SS 111 0002	TT46701-003RXRX	8081A	SO	3545	28.0	2.0		14	40		Days	04/07/2008	05/05/2008	05/07/2008
09SS 116 0002	TT46701-008RXRX	8081A	SO	3545	28.0	2.0		14	40		Days	04/07/2008	05/05/2008	05/07/2008
09SS 117 0002	TT46701-009RXRX	8081A	SO	3545	28.0	1.0		14	40		Days	04/07/2008	05/05/2008	05/06/2008
09SS 118 0002	TT46701-010RXRX	8081A	SO	3545	28.0	1.0		14	40		Days	04/07/2008	05/05/2008	05/06/2008

Laboratory Control Sample / Laboratory Control Sample Duplicate Outlier Report

Method Batch : 307_19616 **Analysis Method :** 8081A **Analysis Date :** 04/15/2008

Preparation Batch : P028347 **Preparation Type :** 3545 **Preparation Date :** 04/10/2008

Lab Reporting Batch : TT46701 **Lab ID:** PACE

			Reported Values		Project Limits (Percent)			
LCS Lab Sample ID	Matrix	Analyte Name	Percent Recovery	RPD	Rejection Point	Lower Limit	Upper Limit	RPD
S041008GPBSLO	SO	DELTA-BHC	60.47		10.00	66.00	156.00	

Associated Samples

Client Sample ID	Lab Sample ID
09SS 109 0002	TT46701-001
09SS 110 0002	TT46701-002
09SS 112 0002	TT46701-004
09SS 113 0002	TT46701-005
09SS 114 0002	TT46701-006
09SS 115 0002	TT46701-007
09SS 119 0002	TT46701-011
09SS 120 0002	TT46701-012
09SS 121 0002	TT46701-013
09SS 122 0002	TT46701-014
09SS 123 0002	TT46701-015
09SS 124 0002	TT46701-016

Scope of Data Qualification: The outlier in the LCS qualifies that analyte in all samples with the same Preparation Batch ID as the LCS

Project Number and Name: TTNUS_CTO376 - CTO 0467 NSWC Crane

Reporting Limits Outlier Report

Lab Report Batch: TT46701 **Lab ID:** PACE

Client Sample ID	Lab Sample ID	Analysis	Matrix	Analyte Name	Lab Qual	Result	Reporting	Units
09SS 110 0002	TT46701-002	8081A	SO	ALPHA-CHLORDANE	J	520	717.74	ug/kg
09SS 119 0002	TT46701-011			ALPHA-CHLORDANE	J	210	468.28	ug/kg
				GAMMA-CHLORDANE	J	220	468.28	ug/kg
09SS 124 0002	TT46701-016			ALPHA-CHLORDANE	J	680	916.21	ug/kg
				GAMMA-CHLORDANE	J	750	916.21	ug/kg

QC Outlier Report: Reporting Limits (Non-qualified Outliers)

Lab Report Batch: TT46701 **Lab ID:** PACE

Client Sample ID	Lab Sample ID	Analysis Method	Matrix	Analyte Name	Lab Qualifier	Result	Reporting Limit Criteria*	Units
09FD04070801	TT46701-017RXRX	8081A	SO	TOXAPHENE	U	160000	83,679.92	ug/kg
09SS 109 0002	TT46701-001	8081A	SO	TOXAPHENE	U	9100	3,855.03	ug/kg
09SS 110 0002	TT46701-002	8081A	SO	TOXAPHENE	U	40000	18,219.51	ug/kg
09SS 111 0002	TT46701-003RXRX	8081A	SO	TOXAPHENE	U	14000000	6,985,026.30	ug/kg
09SS 112 0002	TT46701-004	8081A	SO	TOXAPHENE	U	10000	4,814.31	ug/kg
09SS 113 0002	TT46701-005	8081A	SO	TOXAPHENE	U	12000	7,149.89	ug/kg
09SS 114 0002	TT46701-006	8081A	SO	TOXAPHENE	U	5800000	3,161,090.94	ug/kg
09SS 115 0002	TT46701-007	8081A	SO	TOXAPHENE	U	2200000	1,145,767.65	ug/kg
09SS 116 0002	TT46701-008RXRX	8081A	SO	TOXAPHENE	U	81000	41,138.88	ug/kg
09SS 117 0002	TT46701-009RXRX	8081A	SO	TOXAPHENE	U	230	127.28	ug/kg
09SS 118 0002	TT46701-010RXRX	8081A	SO	TOXAPHENE	U	880	452.22	ug/kg
09SS 119 0002	TT46701-011	8081A	SO	TOXAPHENE	U	23000	11,887.10	ug/kg
09SS 120 0002	TT46701-012	8081A	SO	TOXAPHENE	U	20000	9,596.99	ug/kg
09SS 121 0002	TT46701-013	8081A	SO	TOXAPHENE	U	2000000	967,370.49	ug/kg
09SS 122 0002	TT46701-014	8081A	SO	TOXAPHENE	U	110000	56,578.22	ug/kg
09SS 123 0002	TT46701-015	8081A	SO	TOXAPHENE	U	1100000	578,243.25	ug/kg

* Reporting Limit Criteria = (Dilution Factor) * (Reporting Limit from the reference project library) * (Percent Moisture Correction)
Percent Moisture Correction:
Soil: 100 / (100 - Percent Moisture)
Water: 1

Project Number and Name: ***TTNUS_CTO376 - CTO 0467 NSWC Crane***

QC Outlier Report: Reporting Limits (Non-qualified Outliers)

Lab Report Batch: TT46701 **Lab ID:** PACE

Client Sample ID	Lab Sample ID	Analysis Method	Matrix	Analyte Name	Lab Qualifier	Result	Reporting Limit Criteria*	Units
09SS 124 0002	TT46701-016	8081A	SO	TOXAPHENE	U	50000	23,257.71	ug/kg

* Reporting Limit Criteria = (Dilution Factor) * (Reporting Limit from the reference project library) * (Percent Moisture Correction)
Percent Moisture Correction:
Soil: 100 / (100 - Percent Moisture)
Water: 1

Project Number and Name: ***TTNUS_CTO376 - CTO 0467 NSWC Crane***

Pace Analytical Services, Inc.
940 S. Harney
Seattle, WA 98108

To: Tetra Tech NUS, Inc.
Project No.: CTO 0467
Site Name: Crane NSWC
Project Manager: S. Ruffing
SDG No.: TT46701
Date of Report: May 19, 2008

SAMPLE RECEIPT, IDENTIFICATION, AND GENERAL COMMENTS:

Sample Receipt and Identification:

The samples submitted under the laboratory number(s) indicated above were identified and analyzed as tabulated below. The samples were collected and received on the dates noted on the enclosed chain-of-custody copies, Attachment A.

Client Sample Identification	Pace Sample Identification	Testing Analytical Request
09SS 109 0002	TT46701-001	PEST
09SS 110 0002	TT46701-002	PEST
09SS 111 0002	TT46701-003	PEST
09SS 112 0002	TT46701-004	PEST
09SS 113 0002	TT46701-005	PEST
09SS 114 0002	TT46701-006	PEST
09SS 115 0002	TT46701-007	PEST
09SS 116 0002	TT46701-008	PEST
09SS 117 0002	TT46701-009	PEST
09SS 118 0002	TT46701-010	PEST
09SS 119 0002	TT46701-011	PEST
09SS 120 0002	TT46701-012	PEST
09SS 121 0002	TT46701-013	PEST
09SS 122 0002	TT46701-014	PEST
09SS 123 0002	TT46701-015	PEST
09SS 124 0002	TT46701-016	PEST
09FD04070801	TT46701-017	PEST

Analytical Request Key:

PEST = Appendix IX Pesticides (8081)

Summary of NELAC test accreditation

Determination	NELAC approved
2540B Total Solids, soil (by Organics dept.)	NO
8081 Pesticides Soil with Appendix IX List	YES

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Seattle, WA 98108

Sample Receipt Comments:

The following discrepancies were noted in association with the receipt of these samples.
The sample Ids on the COC stated SS and all of the sample containers stated SB. The samples were logged in as SS. Sample 09SS1240002, for the MS/MSD, one of three jars received contained a dry sample and two of three jars contained free flowing water. The client was notified.

GENERAL REMARKS ON ORGANIC ANALYSES:

The following comments describe general analysis conditions. For remarks specific to the samples reported in this case, see "SPECIFIC REMARKS ON ORGANIC ANALYSIS."

Manual Integrations:
One or more analytes may have been manually integrated on the data system quantitation reports. All manual integrations have been flagged, initialed, and dated by the analyst. A list of the manual integration flags is detailed below.

M	Manual integration due to irregular peak shape
MS	Manual integration due to split peak
MR	Manual integration due to retention time shift
MI	Manual integration of correct isomer
MT	Manual integration due to peak tailing
MB	Manual integration due to irregular baseline

Holding Time Compliance:

Pesticides:
The holding time to extraction, which is calculated from the date of collection, is 7 days for water samples and 14 days for soil samples. The holding time from extraction to analysis is 40 days. All samples were initially extracted and analyzed within holding times. Several samples were re-extracted outside of the 14 day holding time but within the 28 day holding time for validatable data. See below for details.

Pesticide Fraction:

Sample Preparation:
Samples 09SS 111 0002, 09SS 116 0002, 09SS 117 0002, 09SS 118 0002, and 09FD04070601 were reextracted outside of the holding times due to poor surrogate recoveries. Due to the extremely high concentrations of pesticides in these samples all reextracts and QC were prepared using a modified sonication technique to avoid contamination of laboratory glassware and equipment.

Sample Analyses:
All samples were screened to determine approximate pesticide content then diluted appropriately prior to analysis. Only the final diluted analyses were submitted.

Chlordane is reported separately as the alpha and gamma isomers, not the total.

Surrogate Recoveries:
Both surrogates were diluted out of many sample analyses. The DCB recovery was high in the analysis of sample extract 09FD04070801RXRX. All other analyses with recoverable levels of surrogates yielded recoveries within the control limits.

Quality Control Analyses:
MS/MSD analyses performed on sample extract 09SS 124 0002 yielded no usable data due to the high dilution factor necessary to analyze the native sample and no data were submitted. Delta-BHC recovery was low in the analysis of the laboratory control sample S041008GPBSLO. Because this was within the marginal exceedance limit, no action was taken.

Continuing Calibration Verification (CCV) Standard Analyses:
Analysis of CCV Q5060815.d yielded a %D value for the surrogate DCB that exceeded the 20% control limit on the RTX-CLP column. Because the DCB recovery was within the control limits on the RTX-CLP2 column no further action was taken.

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ABBREVIATIONS

Several abbreviations can appear in our reports. The most commonly employed abbreviations are as follows:

U The analyte of interest was not detected to the limit of detection indicated.

SDL Sample Detection Limit. The SDL can vary from sample to sample, depending on sample size, matrix interferences, moisture content and other sample-specific conditions.

PQL Practical Quantitation Limit. The limit is drawn from the test method and usually represents the SDL multiplied by a matrix-specific factor.

DB Dry Basis. The value reported has been back-calculated to normalize for the moisture content of the sample.

AR As-Received. The value has not been normalized for moisture.

ORGANIC ANALYSES:

B When used in relation to organics fractions, the "B" flag indicates that the analyte of interest was detected in the method blank associated with the sample, as well as in the sample itself. The "B" flag is applied without regard to the relative concentrations detected in the blank and sample.

J The analyte of interest was detected below the routine reporting limit. This value should be regarded as an estimate.

T The flagged values represent the SUM of two co-eluting compounds. The SUM of these two values is shown as though it were a result for each of them. The two figures should not be added together.

E The flagged value was reported from an analysis that exceeded the linear range of the instrument. See additional comments for further discussion of the circumstances. Values so flagged should be considered estimates.

P When a dual column GC technique is employed, this flag indicates that test results from the two columns differ by more than 25%. Generally, we report the higher value.

C The flagged analyte has been confirmed by GC/MS analysis. The value reported may be derived from either the initial of confirmatory (GC/MS) analysis. See specific report comments for details.

~ This result has been identified as non-primary based on the analyst's professional judgment.

CRQL Client requested Quantitation Limit, usually the limit of detection specified at your request. Might also be referred to as Contract Required Quantitation Limit.

Pace Analytical Services, Inc.
940 S. Harney
Seattle, WA 98108

RELEASE OF DATA

Pace Analytical Services, Inc. certifies that these results meet all requirements of the NELAC standards, except where otherwise noted.

"I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or his designee, as verified by the following signature."

Respectfully submitted,

for	
Kara Godineaux	Harry Romberg
Project Manager	Quality Assurance Officer
5/19/08	5/19/08
(DATE)	(DATE)

HOW TO CONTACT US:

All Pace Analytical Services, Inc. staff members can be reached at the same telephone and facsimile numbers: (206) 767-5060 by phone, (206) 767-5063 by FAX.

REQUESTS FOR DUPLICATE COPIES:

This packet has been checked for accuracy. All pages are present and in sequential order. Please see Attachment B for a detailed record.

In the event that duplicate data copies are needed, Pace will accommodate your request at a fee of twenty-five cents ($0.25) per copy, plus shipping. If the data are in storage, there will also be a fee for retrieval.

SOIL PESTICIDE SURROGATE RECOVERY

Lab Name: Pace Analytical Services, Inc. Contract: N/A

SDG No.: TT46701 Run Sequence: R027267

(LAB SAMPLE ID) DF CLIENT SAMPLE NUMBER DC	S1 (TCX)	#	S2 (DCB)	#	S3 ()	#	S4 ()	#	TOT OUT
(TT46701-015) 10,000 X 09SS 123 0002	0	*	0	*					2
(TT46701-014) 1,000 X 09SS 122 0002	0	*	0	*					2
(TT46701-013) 20,000 X 09SS 121 0002	0	*	0	*					2
(TT46701-007) 20,000 X 09SS 115 0002	0	*	0	*					2
(TT46701-006) 50,000 X 09SS 114 0002	0	*	0	*					2
(TT46701-017RXRX) 100X 09FD04070801RX-RX	138		169	*					1
(TT46701-008RXRX) 50 X 09SS 116 0002RX-RX	134		152						0
(TT46701-003RXRX) 10,000 X 09SS 111 0002RX-RX	0	*	0	*					2
(TT46701-010RXRX) 4.0 X 09SS 118 0002RX-RX	105		106						0
(TT46701-009RXRX) 1.0 X 09SS 117 0002RX-RX	110		93						0
(S050508GPXSLG) S050508GPXSLG	112		97						0
(B050508GPXSLG) B050508GPXSLG	115		100						0
(TT46701-016) 500 X 09SS 124 0002	0	*	0	*					2
(TT46701-002) 400 X 09SS 110 0002	0	*	0	*					2
(TT46701-012) 200 X 09SS 120 0002	0	*	0	*					2
(TT46701-011) 200 X 09SS 119 0002	0	*	0	*					2
(TT46701-005) 100 X 09SS 113 0002	0	*	0	*					2
(TT46701-004) 100 X 09SS 112 0002	0	*	0	*					2
(TT46701-001) 100 X 09SS 109 0002	0	*	0	*					2
(S041008GPBSLO) S041008GPBSLO	81		77						0
(B041008GPBSLO) B041008GPBSLO	113		92						0

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FORM II PEST

2

SOIL PESTICIDE SURROGATE RECOVERY

Lab Name: Pace Analytical Services, Inc. Contract: N/A

SDG No.: TT46701 Run Sequence: R027267

(LAB SAMPLE ID) CLIENT SAMPLE NUMBER	S1 (TCX) #	S2 (DCB) #	S3 () #	S4 () #	TOT OUT
					QC LIMITS
S1 (TCX) =	TETRACHLORO-M-XYLENE				30-150
S2 (DCB) =	DECACHLOROBIPHENYL				75-158
S3 () =					
S4 () =					

Column to be used to flag recovery values
* Values outside of contract required QC limits

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FORM II PEST

3B
SOIL PESTICIDE BLANK SPIKE RECOVERY

Lab Name: Pace Analytical Services, Inc. Contract: N/A

BS Run Sequence: R027267 SDG No.: TT46701

BS Lab Sample ID: S041008GPBSLO

Level: N/A Units: ug/kg

Analyte	Spike Added	Found	% Rec	#	Rec Limit
ALPHA-BHC	6.67	4.3815	66		53-136
BETA-BHC	6.67	5.1921	78		59-146
DELTA-BHC	6.67	4.0316	60	*	66-156
GAMMA-BHC	6.67	4.777	72		46-131
HEPTACHLOR	6.67	5.0564	76		56-117
ALDRIN	6.67	4.8154	72		59-126
HEPTACHLOR EPOXIDE	6.67	4.8906	73		50-133
ENDOSULFAN I	6.67	4.8367	73		42-139
DIELDRIN	13.3	10.0125	75		52-140
4,4'-DDE	13.3	10.6703	80		57-153
ENDRIN	13.3	10.1399	76		48-154
ENDOSULFAN II	13.3	10.012	75		39-162
4,4'-DDD	13.3	10.0973	76		29-160
ENDOSULFAN SULFATE	13.3	9.0744	68		41-150
4,4'-DDT	13.3	9.287	70		41-133
METHOXYCHLOR	66.7	51.3288	77		61-118
ENDRIN ALDEHYDE	13.3	9.9075	74		45-119
ALPHA-CHLORDANE	6.67	5.0379	76		38-189
ENDRIN KETONE	13.3	9.7421	73		49-154
GAMMA-CHLORDANE	6.67	4.8246	72		53-132

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

Spike Recovery: 1 out of 20 outside limits

COMMENTS:

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3B
SOIL PESTICIDE BLANK SPIKE RECOVERY

Lab Name: Pace Analytical Services, Inc. Contract: N/A

BS Run Sequence: R027909 SDG No.: TT46701

BS Lab Sample ID: S050508GPXSLG

Level: N/A Units: ug/kg

Analyte	Spike Added	Found	% Rec #	Rec Limit
ALPHA-BHC	13.3	11.7481	88	53-136
BETA-BHC	13.3	12.9085	97	59-146
DELTA-BHC	13.3	9.5421	72	66-156
GAMMA-BHC	13.3	12.2437	92	46-131
HEPTACHLOR	13.3	13.4839	101	56-117
ALDRIN	13.3	13.3557	100	59-126
HEPTACHLOR EPOXIDE	13.3	12.6667	95	50-133
ENDOSULFAN I	13.3	12.9602	97	42-139
DIELDRIN	26.7	26.1385	98	52-140
4,4'-DDE	26.7	27.3524	103	57-153
ENDRIN	26.7	25.9775	97	48-154
ENDOSULFAN II	26.7	24.7765	93	39-162
4,4'-DDD	26.7	25.5526	96	29-160
ENDOSULFAN SULFATE	26.7	21.5262	81	41-150
4,4'-DDT	26.7	21.9342	82	41-133
METHOXYCHLOR	133	120.23	90	61-118
ENDRIN ALDEHYDE	26.7	23.7882	89	45-119
ALPHA-CHLORDANE	13.3	13.3038	100	38-189
ENDRIN KETONE	26.7	23.5909	88	49-154
GAMMA-CHLORDANE	13.3	12.8097	96	53-132

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

Spike Recovery: 0 out of 20 outside limits

COMMENTS:

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4

PESTICIDE METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

B041008GPBSLO

Lab Name: Pace Analytical Services, Inc.

Contract:

SDG No.: TT46701

Lab File ID: Q4150809.d

Lab Sample ID: B041008GPBSLO

Matrix: (SOIL/SED/WATER) Soil

Extraction: (Type) PFEX

Sulfur Cleanup: N

Date Extracted: 04/10/2008

Date Analyzed (1): 04/15/2008

Date Analyzed (2): 04/15/2008

Time Analyzed (1): 13:12

Time Analyzed (2): 13:12

Instrument ID (1): HP6890Q

Instrument ID (2): HP6890Q

GC Column(1): RTX-CLP ID: .32 (mm) GC Column(2): RTX-CLPII ID: .32 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, AND MSD:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED (1)	DATE ANALYZED (2)	RUN SEQUENCE
01	S041008GPBSLO	S041008GPBSLO	04/15/2008	04/15/2008	R027267
02	09SS 109 0002	TT46701-001	04/15/2008	04/15/2008	R027267
03	09SS 112 0002	TT46701-004	04/15/2008	04/15/2008	R027267
04	09SS 113 0002	TT46701-005	04/15/2008	04/15/2008	R027267
05	09SS 119 0002	TT46701-011	04/15/2008	04/15/2008	R027267
06	09SS 120 0002	TT46701-012	04/15/2008	04/15/2008	R027267
07	09SS 110 0002	TT46701-002	04/15/2008	04/15/2008	R027267
08	09SS 124 0002	TT46701-016	04/15/2008	04/15/2008	R027267
09	09SS 114 0002	TT46701-006	05/16/2008	05/16/2008	R027267
10	09SS 115 0002	TT46701-007	05/16/2008	05/16/2008	R027267
11	09SS 121 0002	TT46701-013	05/16/2008	05/16/2008	R027267
12	09SS 122 0002	TT46701-014	05/16/2008	05/16/2008	R027267
13	09SS 123 0002	TT46701-015	05/16/2008	05/16/2008	R027267
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					

COMMENTS:

1

PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

B041008GPBSLO

Lab Name: Pace Analytical Services, In

Contract: N/A

SDG No.: TT46701

Run Sequence: R027267

Matrix: (SOIL/WATER) Soil

Lab Sample ID: B041008GPBSLO

Sample wt/vol: 15.0 (g/mL) gm

Lab File ID: Q4150809.d

% Moisture: _____ Decanted: (Y/N) N

Date Collected: _____

Extraction: (Type) PFEX

Date Extracted: 04/10/2008

Concentrated Extract Volume: 2500.0 (uL)

Date Analyzed: 04/15/2008

Injection Volume: 0.5 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: _____

Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
319-84-6	ALPHA-BHC	0.65	U
319-85-7	BETA-BHC	0.65	U
319-86-8	DELTA-BHC	0.65	U
58-89-9	GAMMA-BHC	0.65	U
76-44-8	HEPTACHLOR	0.65	U
309-00-2	ALDRIN	0.65	U
1024-57-3	HEPTACHLOR EPOXIDE	0.65	U
959-98-8	ENDOSULFAN I	0.65	U
60-57-1	DIELDRIN	1.4	U
72-55-9	4,4'-DDE	1.4	U
72-20-8	ENDRIN	1.4	U
33213-65-9	ENDOSULFAN II	1.4	U
72-54-8	4,4'-DDD	1.4	U
1031-07-8	ENDOSULFAN SULFATE	1.4	U
50-29-3	4,4'-DDT	1.4	U
72-43-5	METHOXYCHLOR	6.5	U
7421-93-4	ENDRIN ALDEHYDE	1.4	U
5103-71-9	ALPHA-CHLORDANE	0.65	U
53494-70-5	ENDRIN KETONE	1.4	U
5103-74-2	GAMMA-CHLORDANE	0.65	U
8001-35-2	TOXAPHENE	85	U

Comments:

4

PESTICIDE METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

B050508GPXSLG

Lab Name: Pace Analytical Services, Inc.

Contract:

SDG No.: TT46701

Lab File ID: Q5060805.d

Lab Sample ID: B050508GPXSLG

Matrix: (SOIL/SED/WATER) Soil

Extraction: (Type) PFEX

Sulfur Cleanup: N

Date Extracted: 05/05/2008

Date Analyzed (1): 05/06/2008

Date Analyzed (2): 05/06/2008

Time Analyzed (1): 11:41

Time Analyzed (2): 11:41

Instrument ID (1): HP6890Q

Instrument ID (2): HP6890Q

GC Column(1): RTX-CLP ID: .32 (mm) GC Column(2): RTX-CLPII ID: .32 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, AND MSD:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED (1)	DATE ANALYZED (2)	RUN SEQUENCE
01	S050508GPXSLG	S050508GPXSLG	05/06/2008	05/06/2008	R027909
02	09SS 117 0002RX-RX	TT46701-009RXRX	05/06/2008	05/06/2008	R027909
03	09SS 118 0002RX-RX	TT46701-010RXRX	05/06/2008	05/06/2008	R027909
04	09SS 111 0002RX-RX	TT46701-003RXRX	05/07/2008	05/07/2008	R027909
05	09SS 116 0002RX-RX	TT46701-008RXRX	05/07/2008	05/07/2008	R027909
06	09FD04070801RX-RX	TT46701-017RXRX	05/07/2008	05/07/2008	R027909
07					
08					
09					
10					
11					
12					
13					
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18					
19					
20					
21					
22					
23					
24					
25					
26					

COMMENTS:

1

PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

B050508GPXSLG

Lab Name: Pace Analytical Services, In

Contract: N/A

SDG No.: TT46701

Run Sequence: R027909

Matrix: (SOIL/WATER) Soil

Lab Sample ID: B050508GPXSLG

Sample wt/vol: 15.0 (g/mL) gm

Lab File ID: Q5060805.d

% Moisture: _____ Decanted: (Y/N) N

Date Collected: _____

Extraction: (Type) PFEX

Date Extracted: 05/05/2008

Concentrated Extract Volume: 10000.0(uL)

Date Analyzed: 05/06/2008

Injection Volume: 0.5 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
319-84-6	ALPHA-BHC	~~0.65~~ 1.33	U
319-85-7	BETA-BHC	~~0.65~~ 1.33	U
319-86-8	DELTA-BHC	~~0.65~~ 1.33	U
58-89-9	GAMMA-BHC	~~0.65~~ 1.33	U
76-44-8	HEPTACHLOR	~~0.65~~ 1.33	U
309-00-2	ALDRIN	~~0.65~~ 1.33	U
1024-57-3	HEPTACHLOR EPOXIDE	~~0.65~~ 1.33	U
959-98-8	ENDOSULFAN I	~~0.65~~ 1.33	U
60-57-1	DIELDRIN	~~1.4~~ 2.7	U
72-55-9	4,4'-DDE	~~1.4~~ 2.7	U
72-20-8	ENDRIN	~~1.4~~ 2.7	U
33213-65-9	ENDOSULFAN II	~~1.4~~ 2.7	U
72-54-8	4,4'-DDD	~~1.4~~ 2.7	U
1031-07-8	ENDOSULFAN SULFATE	~~1.4~~ 2.7	U
50-29-3	4,4'-DDT	~~1.4~~ 2.7	U
72-43-5	METHOXYCHLOR	~~6.5~~ 13	U
7421-93-4	ENDRIN ALDEHYDE	~~1.4~~ 2.7	U
5103-71-9	ALPHA-CHLORDANE	~~0.65~~ 1.33	U
53494-70-5	ENDRIN KETONE	~~1.4~~ 2.7	U
5103-74-2	GAMMA-CHLORDANE	~~0.65~~ 1.33	U
8001-35-2	TOXAPHENE	~~85~~ 170	U

Comments:

GR 5/19/08

8081B

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FORM I PEST

Pace Analytical Services, Inc.
BATCH SUMMARY (for databatch - \\diana\target\6890q.i\Q40208Pest-1.b)

	Filename	Lab Sample ID	Client Sample ID	SDG	I.V.	D.F.	Inj. Date & Time
1	Q4020805.d	PEM	PX-8-43-7	PEM	2	1	02-APR-2008 11:46
2	Q4020806.d	INDC+ CCV (L1)	PX-8-43-6/20	CALIB	2	1	02-APR-2008 13:15
3	Q4020807.d	INDC+ CCV (L2)	PX-8-43-6/10	CALIB	2	1	02-APR-2008 13:48
4	Q4020808.d	INDC+ CCV (L3)	PX-8-43-6/4	CALIB	2	1	02-APR-2008 14:21
5	Q4020809.d	INDC+ CCV (L4)	PX-8-43-6/2	CALIB	2	1	02-APR-2008 14:54
6	Q4020810.d	INDC+ CCV (L5)	PX-8-43-6	CALIB	2	1	02-APR-2008 15:27
7	Q4020811.d	PI BLANK	PX-8-43-8	INSTBLAN	2	1	02-APR-2008 16:00
8	Q4020812.d	TOXAPHENE	PX-8-41-12/20	CALIB	2	1	02-APR-2008 16:33
9	Q4020813.d	INDC+ CCV 2ND	PX-4-43-3/4	CCV	2	1	02-APR-2008 17:06

I.V. = Inj.Vol. per Column Batch Summary Ver 2.0 9-5-2002

SUM - 42

Pace Analytical Services, Inc.
Initial Calibration Linearity Summary

Start Cal Date: 02-APR-2008 13:15
End Cal Date : 02-APR-2008 15:27
Quant Method : ESTD
Cal Curve Type: Average CF
Integrator : Falcon
Method File : \\diana\target\6890q.i\Q40208Pest-1.b\Q40208Pest-1.M
Method : Method 8081
Sublist : INDC+.sub
Column : RTX-CLP
Column Size : 30m L - 0.32mm ID

Calibration Files:
Level 1: //diana/target/6890q.i/Q40208Pest-1.b/Q4020806.d
Level 2: //diana/target/6890q.i/Q40208Pest-1.b/Q4020807.d
Level 3: //diana/target/6890q.i/Q40208Pest-1.b/Q4020808.d
Level 4: //diana/target/6890q.i/Q40208Pest-1.b/Q4020809.d
Level 5: //diana/target/6890q.i/Q40208Pest-1.b/Q4020810.d

Compound	Level 1	Level 2	Level 3	Level 4	Level 5	Ave CF	%RSD
44 alpha-BHC	839102500	931462500	1015125000	1027977000	1090666000	980906700	9.9
45 gamma-BHC (Lindane)	842152500	899701200	966060300	982668200	1026525000	943421500	7.7
46 beta-BHC	401571000	391324200	379315100	374944600	386334700	386697900	2.7
47 delta-BHC	793384500	835404200	911515000	953477800	980837400	894923800	8.8
48 Heptachlor	917832500	934546800	968183600	993626300	1020499000	966937700	4.3
49 Aldrin	835639500	858966000	912334600	940089600	976159500	904637900	6.4
50 Heptachlor epoxide	829704000	839155200	858682500	884764300	893013800	861064000	3.2
51 gamma-Chlordane	890281000	852525800	845769400	869236800	881829300	867928500	2.2
52 alpha-Chlordane	815671000	813090800	813343300	841241000	847800400	826229300	2.0
53 Endosulfan I	822802000	791314000	789922500	815473400	815546900	807011700	1.9

Amount = Response divided by CF

CF - Calibration Factor (response divided by concentration).
RSD - Relative Standard Deviation.

Pace Analytical Services, Inc.
Initial Calibration Linearity Summary

Compound	Level 1	Level 2	Level 3	Level 4	Level 5	Ave CF	%RSD
54 4,4'-DDE	815075800	810764800	842074900	870537400	843677400	836426000	2.9
55 Dieldrin	857311200	874711800	896594400	918298200	886072400	886597600	2.6
56 Endrin	781341000	769079000	780027200	822131800	776254800	785766800	2.7
57 4,4'-DDD	666421500	648710000	660938400	704225000	678456100	671750200	3.1
58 Endosulfan II	764560000	737179100	732835400	744546700	715697600	738963800	2.4
59 Endrin aldehyde	586692800	537873000	526685500	558295100	562408700	554391000	4.2
60 4,4'-DDT	789146200	734513400	762770600	806798400	767585000	772162700	3.6
61 Endosulfan sulfate	717645800	680230000	678995500	692558300	662163300	686318600	3.0
62 Methoxychlor	411354800	364017900	359603600	360920200	323139700	363807200	8.6
63 Endrin Ketone	824158500	812239200	805131900	821249300	778155400	808186900	2.3
66 Isodrin	782885000	818181200	815853800	853997000	855933200	825370000	3.7
1 Tetrachloro-m-xylene	643245600	671580600	671803800	661292300	681989400	665982300	2.2
11 Decachlorobiphenyl	893857600	796169000	712785500	725201900	666685300	758939900	11.7

Amount = Response divided by CF

CF - Calibration Factor (response divided by concentration).

RSD - Relative Standard Deviation.

Pace Analytical Services, Inc.
Initial Calibration Retention Time Summary

Start Cal Date: 02-APR-2008 13:15
End Cal Date : 02-APR-2008 15:27
Quant Method : ESTD
Cal Curve Type: Average CF
Integrator : Falcon
Method File : \\diana\target\6890q.i\Q40208Pest-1.b\Q40208Pest-1.M
Method : Method 8081
Sublist : INDC+.sub
Column : RTX-CLP
Column Size : 30m L - 0.32mm ID

Calibration Files:
Level 1: //diana/target/6890q.i/Q40208Pest-1.b/Q4020806.d
Level 2: //diana/target/6890q.i/Q40208Pest-1.b/Q4020807.d
Level 3: //diana/target/6890q.i/Q40208Pest-1.b/Q4020808.d
Level 4: //diana/target/6890q.i/Q40208Pest-1.b/Q4020809.d
Level 5: //diana/target/6890q.i/Q40208Pest-1.b/Q4020810.d

Compound	Level 1	Level 2	Level 3	Level 4	Level 5	Ave RT
44 alpha-BHC	8.51	8.50	8.50	8.50	8.49	8.498
45 gamma-BHC (Lindane)	9.11	9.10	9.10	9.10	9.10	9.101
46 beta-BHC	9.28	9.27	9.27	9.27	9.27	9.268
47 delta-BHC	9.59	9.58	9.58	9.58	9.58	9.582
48 Heptachlor	9.95	9.94	9.94	9.94	9.94	9.942
49 Aldrin	10.46	10.45	10.45	10.45	10.45	10.452
50 Heptachlor epoxide	11.45	11.44	11.44	11.44	11.44	11.445
51 gamma-Chlordane	11.64	11.64	11.64	11.64	11.64	11.639
52 alpha-Chlordane	11.85	11.85	11.85	11.85	11.84	11.847
53 Endosulfan I	12.07	12.06	12.06	12.06	12.06	12.063

Retention times are expressed as minutes.

Pace Analytical Services, Inc.
Initial Calibration Retention Time Summary

Start Cal Date: 02-APR-2008 13:15
End Cal Date : 02-APR-2008 15:27
Quant Method : ESTD
Cal Curve Type: Average CF
Integrator : Falcon
Method File : \\diana\target\6890q.i\Q40208Pest-1.b\Q40208Pest-1.M
Method : Method 8081
Sublist : INDC+.sub
Column : RTX-CLP
Column Size : 30m L - 0.32mm ID

Compound	Level 1	Level 2	Level 3	Level 4	Level 5	Ave RT
54 4,4'-DDE	11.97	11.97	11.96	11.96	11.96	11.965
55 Dieldrin	12.44	12.43	12.43	12.43	12.43	12.430
56 Endrin	12.79	12.79	12.78	12.78	12.78	12.785
57 4,4'-DDD	12.88	12.87	12.87	12.87	12.87	12.873
58 Endosulfan II	13.13	13.13	13.13	13.12	13.12	13.125
59 Endrin aldehyde	13.76	13.75	13.75	13.75	13.75	13.750
60 4,4'-DDT	13.29	13.29	13.28	13.28	13.28	13.285
61 Endosulfan sulfate	14.40	14.39	14.39	14.39	14.39	14.390
62 Methoxychlor	13.99	13.98	13.98	13.98	13.98	13.980
63 Endrin Ketone	14.81	14.81	14.81	14.81	14.80	14.807
66 Isodrin	11.01	11.00	11.00	11.00	11.00	11.004
1 Tetrachloro-m-xylene	7.35	7.34	7.34	7.34	7.34	7.342
11 Decachlorobiphenyl	16.23	16.22	16.22	16.22	16.22	16.220

Retention times are expressed as minutes.

Pace Analytical Services, Inc.
Initial Calibration Amounts Summary

Start Cal Date: 02-APR-2008 13:15
End Cal Date : 02-APR-2008 15:27
Quant Method : ESTD
Cal Curve Type: Average CF
Integrator : Falcon
Method File : \\diana\target\6890q.i\Q40208Pest-1.b\Q40208Pest-1.M
Method : Method 8081
Sublist : INDC+.sub
Column : RTX-CLP
Column Size : 30m L - 0.32mm ID

Calibration Files:
Level 1: //diana/target/6890q.i/Q40208Pest-1.b/Q4020806.d
Level 2: //diana/target/6890q.i/Q40208Pest-1.b/Q4020807.d
Level 3: //diana/target/6890q.i/Q40208Pest-1.b/Q4020808.d
Level 4: //diana/target/6890q.i/Q40208Pest-1.b/Q4020809.d
Level 5: //diana/target/6890q.i/Q40208Pest-1.b/Q4020810.d

Compound	Level 1	Level 2	Level 3	Level 4	Level 5
44 alpha-BHC	0.00200	0.00400	0.01000	0.02000	0.04000
45 gamma-BHC (Lindane)	0.00200	0.00400	0.01000	0.02000	0.04000
46 beta-BHC	0.00200	0.00400	0.01000	0.02000	0.04000
47 delta-BHC	0.00200	0.00400	0.01000	0.02000	0.04000
48 Heptachlor	0.00200	0.00400	0.01000	0.02000	0.04000
49 Aldrin	0.00200	0.00400	0.01000	0.02000	0.04000
50 Heptachlor epoxide	0.00200	0.00400	0.01000	0.02000	0.04000
51 gamma-Chlordane	0.00200	0.00400	0.01000	0.02000	0.04000
52 alpha-Chlordane	0.00200	0.00400	0.01000	0.02000	0.04000
53 Endosulfan I	0.00200	0.00400	0.01000	0.02000	0.04000

Standard concentrations are expressed as ng.

Pace Analytical Services, Inc.
Initial Calibration Amounts Summary

Start Cal Date: 02-APR-2008 13:15
End Cal Date : 02-APR-2008 15:27
Quant Method : ESTD
Cal Curve Type: Average CF
Integrator : Falcon
Method File : \\diana\target\6890q.i\Q40208Pest-1.b\Q40208Pest-1.M
Method : Method 8081
Sublist : INDC+.sub
Column : RTX-CLP
Column Size : 30m L - 0.32mm ID

Compound	Level 1	Level 2	Level 3	Level 4	Level 5
54 4,4'-DDE	0.00400	0.00800	0.02000	0.04000	0.08000
55 Dieldrin	0.00400	0.00800	0.02000	0.04000	0.08000
56 Endrin	0.00400	0.00800	0.02000	0.04000	0.08000
57 4,4'-DDD	0.00400	0.00800	0.02000	0.04000	0.08000
58 Endosulfan II	0.00400	0.00800	0.02000	0.04000	0.08000
59 Endrin aldehyde	0.00400	0.00800	0.02000	0.04000	0.08000
60 4,4'-DDT	0.00400	0.00800	0.02000	0.04000	0.08000
61 Endosulfan sulfate	0.00400	0.00800	0.02000	0.04000	0.08000
62 Methoxychlor	0.02000	0.04000	0.10000	0.20000	0.40000
63 Endrin Ketone	0.00400	0.00800	0.02000	0.04000	0.08000
66 Isodrin	0.00200	0.00400	0.01000	0.02000	0.04000
1 Tetrachloro-m-xylene	0.00250	0.00500	0.01250	0.02500	0.05000
11 Decachlorobiphenyl	0.00250	0.00500	0.01250	0.02500	0.05000

Standard concentrations are expressed as ng.

SUM - 48

Pace Analytical Services, Inc.
Initial Calibration Response Summary

Start Cal Date: 02-APR-2008 13:15
End Cal Date : 02-APR-2008 15:27
Quant Method : ESTD
Cal Curve Type: Average CF
Integrator : Falcon
Method File : \\diana\target\6890q.i\Q40208Pest-1.b\Q40208Pest-1.M
Method : Method 8081
Sublist : INDC+.sub
Column : RTX-CLP
Column Size : 30m L - 0.32mm ID

Calibration Files:
Level 1: //diana/target/6890q.i/Q40208Pest-1.b/Q4020806.d
Level 2: //diana/target/6890q.i/Q40208Pest-1.b/Q4020807.d
Level 3: //diana/target/6890q.i/Q40208Pest-1.b/Q4020808.d
Level 4: //diana/target/6890q.i/Q40208Pest-1.b/Q4020809.d
Level 5: //diana/target/6890q.i/Q40208Pest-1.b/Q4020810.d

Compound	Level 1	Level 2	Level 3	Level 4	Level 5
44 alpha-BHC	1678205.0	3725850.0	10151246	20559545	43634663
45 gamma-BHC (Lindane)	1684305.0	3598805.0	9660603.0	19653363	41061018
46 beta-BHC	803142.00	1565297.0	3793151.0	7498892.0	15453387
47 delta-BHC	1586769.0	3341617.0	9115150.0	19069555	39233494
48 Heptachlor	1835665.0	3738187.0	9681836.0	19872526	40819972
49 Aldrin	1671279.0	3435864.0	9123346.0	18801797	39046380
50 Heptachlor epoxide	1659408.0	3356621.0	8586825.0	17695286	35720552
51 gamma-Chlordane	1780562.0	3410103.0	8457694.0	17384737	35273173
52 alpha-Chlordane	1631342.0	3252363.0	8133433.0	16824820	33912017
53 Endosulfan I	1645604.0	3165256.0	7899225.0	16309467	32621875

Response is in Height units.

Pace Analytical Services, Inc.
Initial Calibration Response Summary

Start Cal Date: 02-APR-2008 13:15
End Cal Date : 02-APR-2008 15:27
Quant Method : ESTD
Cal Curve Type: Average CF
Integrator : Falcon
Method File : \\diana\target\6890q.i\Q40208Pest-1.b\Q40208Pest-1.M
Method : Method 8081
Sublist : INDC+.sub
Column : RTX-CLP
Column Size : 30m L - 0.32mm ID

Compound	Level 1	Level 2	Level 3	Level 4	Level 5
54 4,4'-DDE	3260303.0	6486118.0	16841498	34821498	67494190
55 Dieldrin	3429245.0	6997694.0	17931889	36731929	70885795
56 Endrin	3125364.0	6152632.0	15600544	32885274	62100387
57 4,4'-DDD	2665686.0	5189680.0	13218768	28169000	54276487
58 Endosulfan II	3058240.0	5897433.0	14656709	29781868	57255804
59 Endrin aldehyde	2346771.0	4302984.0	10533710	22331804	44992699
60 4,4'-DDT	3156585.0	5876107.0	15255411	32271934	61406799
61 Endosulfan sulfate	2870583.0	5441840.0	13579910	27702331	52973066
62 Methoxychlor	8227095.0	14560717	35960362	72184046	129255880
63 Endrin Ketone	3296634.0	6497914.0	16102638	32849973	62252430
66 Isodrin	1565770.0	3272725.0	8158538.0	17079939	34237328
1 Tetrachloro-m-xylene	1608114.0	3357903.0	8397548.0	16532307	34099468
11 Decachlorobiphenyl	2234644.0	3980845.0	8909819.0	18130047	33334266

Response is in Height units.

SUM - 50

Pace Analytical Services, Inc.
Initial Calibration Linearity Summary

Start Cal Date: 02-APR-2008 16:33
End Cal Date : 02-APR-2008 16:33
Quant Method : ESTD
Cal Curve Type: Average CF
Integrator : Falcon
Method File : \\diana\target\6890q.i\Q40208Pest-1.b\Q40208Pest-1.M
Method : Method 8081
Sublist : TOX.sub
Column : RTX-CLP
Column Size : 30m L - 0.32mm ID

Calibration Files:
Level 1: //diana/target/6890q.i/Q40208Pest-1.b/Q4020812.d

Compound	Level 1	Ave CF	%RSD
Toxaphene-1	11982020	11982020	0.0
Toxaphene-2	15904220	15904220	0.0
Toxaphene-3	17566120	17566120	0.0
Toxaphene-4	14493500	14493500	0.0
Toxaphene-5	9881020	9881020	0.0

Amount = Response divided by CF

CF - Calibration Factor (response divided by concentration).
RSD - Relative Standard Deviation.

Pace Analytical Services, Inc.
Initial Calibration Retention Time Summary

Start Cal Date: 02-APR-2008 16:33
End Cal Date : 02-APR-2008 16:33
Quant Method : ESTD
Cal Curve Type: Average CF
Integrator : Falcon
Method File : \\diana\target\6890q.i\Q40208Pest-1.b\Q40208Pest-1.M
Method : Method 8081
Sublist : TOX.sub
Column : RTX-CLP
Column Size : 30m L - 0.32mm ID

Calibration Files:
Level 1: //diana/target/6890q.i/Q40208Pest-1.b/Q4020812.d

Compound	Level 1	Ave RT
Toxaphene-1	13.29	13.290
Toxaphene-2	13.61	13.610
Toxaphene-3	14.24	14.240
Toxaphene-4	14.76	14.760
Toxaphene-5	14.98	14.980

Retention times are expressed as minutes.

Pace Analytical Services, Inc.
Initial Calibration Amounts Summary

Start Cal Date: 02-APR-2008 16:33
End Cal Date : 02-APR-2008 16:33
Quant Method : ESTD
Cal Curve Type: Average CF
Integrator : Falcon
Method File : \\diana\target\6890q.i\Q40208Pest-1.b\Q40208Pest-1.M
Method : Method 8081
Sublist : TOX.sub
Column : RTX-CLP
Column Size : 30m L - 0.32mm ID

Calibration Files:
Level 1: //diana/target/6890q.i/Q40208Pest-1.b/Q4020812.d

Compound	Level 1
Toxaphene-1	0.05000
Toxaphene-2	0.05000
Toxaphene-3	0.05000
Toxaphene-4	0.05000
Toxaphene-5	0.05000

Standard concentrations are expressed as ng.

Pace Analytical Services, Inc.
Initial Calibration Response Summary

Start Cal Date: 02-APR-2008 16:33
End Cal Date : 02-APR-2008 16:33
Quant Method : ESTD
Cal Curve Type: Average CF
Integrator : Falcon
Method File : \\diana\target\6890q.i\Q40208Pest-1.b\Q40208Pest-1.M
Method : Method 8081
Sublist : TOX.sub
Column : RTX-CLP
Column Size : 30m L - 0.32mm ID

Calibration Files:
Level 1: //diana/target/6890q.i/Q40208Pest-1.b/Q4020812.d

Compound	Level 1
Toxaphene-1	599101.00
Toxaphene-2	795211.00
Toxaphene-3	878306.00
Toxaphene-4	724675.00
Toxaphene-5	494051.00

Response is in Height units.

Pace Analytical Services, Inc.
Continuing Calibration Verification Summary

Data File : //diana/target/6890q.i/Q40208Pest-1.b/Q4020813.d
Injection Date : 02-APR-2008 17:06
Sample Info : INDC+ CCV 2ND
Misc. Info : Method 8081
Laboratory ID : INDC+ CCV 2ND
Instrument ID : 6890Q.i
Method : Q40208Pest-1.M
Quantitation : ESTD
Dilution Factor : 1.00
Column : RTX-CLP

Client ID : PX-4-43-3/4
Sublist : INDC+
Integrator : Falcon
Sample Type: CCALIB_5
Column Size: 30.00m L- 0.32mm ID

Compound	RT	RT Window	Expected Amount	Continuing Amount	%D	Flag
Tetrachloro-m-xylene	7.34	7.29 - 7.39	0.01250	0.01110	-11.2	
alpha-BHC	8.50	8.44 - 8.54	0.01000	0.01030	3.0	
gamma-BHC (Lindane)	9.10	9.05 - 9.15	0.01000	0.01057	5.7	
beta-BHC	9.26	9.22 - 9.32	0.01000	0.01066	6.6	
delta-BHC	9.58	9.53 - 9.63	0.01000	0.009101	-9.0	
Heptachlor	9.94	9.89 - 9.99	0.01000	0.01090	9.0	
Aldrin	10.45	10.40 - 10.50	0.01000	0.01106	10.6	
Isodrin	11.00	10.93 - 11.07	0.01000	0.009333	-6.7	
Heptachlor epoxide	11.44	11.37 - 11.51	0.01000	0.01100	10.0	
gamma-Chlordane	11.64	11.57 - 11.71	0.01000	0.01044	4.4	
alpha-Chlordane	11.84	11.77 - 11.91	0.01000	0.01090	9.0	
4,4'-DDE	11.96	11.89 - 12.03	0.02000	0.02254	12.7	
Endosulfan I	12.06	11.99 - 12.13	0.01000	0.01058	5.8	
Dieldrin	12.42	12.36 - 12.50	0.02000	0.02172	8.6	
Endrin	12.78	12.71 - 12.85	0.02000	0.02201	10.1	
4,4'-DDD	12.87	12.80 - 12.94	0.02000	0.02163	8.1	
Endosulfan II	13.12	13.05 - 13.19	0.02000	0.02141	7.1	
4,4'-DDT	13.28	13.21 - 13.35	0.02000	0.01943	-2.8	
Endrin aldehyde	13.74	13.68 - 13.82	0.02000	0.01998	-0.1	

%Drift (%D) = Continuing Amount - Expected Amount divided by Expected Amount times 100

Pace Analytical Services, Inc.
Continuing Calibration Verification Summary

Data File : Q4020813.d
Injection Date : 02-APR-2008 17:06

Compound	RT	RT Window	Expected Amount	Continuing Amount	%D	Flag
Methoxychlor	13.98	13.91 - 14.05	0.1000	0.1067	6.7	
Endosulfan sulfate	14.39	14.32 - 14.46	0.02000	0.01952	-2.4	
Endrin Ketone	14.80	14.73 - 14.87	0.02000	0.02106	5.3	
Decachlorobiphenyl	16.22	16.12 - 16.32	0.01250	0.01119	-10.5	
Average Percent Difference					7.2	

%Drift (%D) = Continuing Amount - Expected Amount divided by Expected Amount times 100

SUM - 54

Pace Analytical Services, Inc.
Initial Calibration Linearity Summary

Start Cal Date: 02-APR-2008 13:15
End Cal Date : 02-APR-2008 15:27
Quant Method : ESTD
Cal Curve Type: Average CF
Integrator : Falcon
Method File : \\diana\target\6890q.i\Q40208Pest-2.b\Q40208Pest-2.M
Method : Method 8081
Sublist : ~~INDG1-sub~~
Column : RTX-CLP2
Column Size : ~~30m L~~ 0.32mm ID

Calibration Files:
Level 1: //diana/target/6890q.i/Q40208Pest-2.b/Q4020806.d
Level 2: //diana/target/6890q.i/Q40208Pest-2.b/Q4020807.d
Level 3: //diana/target/6890q.i/Q40208Pest-2.b/Q4020808.d
Level 4: //diana/target/6890q.i/Q40208Pest-2.b/Q4020809.d
Level 5: //diana/target/6890q.i/Q40208Pest-2.b/Q4020810.d

Compound	Level 1	Level 2	Level 3	Level 4	Level 5	Ave CF	%RSD
44 alpha-BHC	731109500	775485000	810365200	841123800	898035800	811223800	7.8
45 gamma-BHC (Lindane)	712031500	750987800	782082700	794003200	836409600	775102900	6.0
46 beta-BHC	348670500	337243000	315840000	307710400	311860900	324265000	5.5
47 Heptachlor	705013500	689316800	699560400	716830300	749437900	712031800	3.3
48 delta-BHC	692937000	711241800	740048600	778771700	820799100	748759600	6.9
49 Aldrin	639212000	658554200	665958500	689002400	711852600	672916000	4.2
50 Heptachlor epoxide	663684000	632860800	616081400	628621000	650465400	638342500	2.9
51 gamma-Chlordane	635061500	610041800	599769700	618907900	627220400	618200200	2.2
52 alpha-Chlordane	624378500	593957000	578847300	579538600	597803200	594904900	3.1
53 Endosulfan I	606096500	567663200	558344600	572693400	579300900	576859700	3.1

Amount = Response divided by CF

CF - Calibration Factor (response divided by concentration).
RSD - Relative Standard Deviation.

Pace Analytical Services, Inc.
Initial Calibration Linearity Summary

Compound	Level 1	Level 2	Level 3	Level 4	Level 5	Ave CF	%RSD
54 Dieldrin	610718500	611849100	627772500	644422200	658818200	630716100	3.3
55 Endrin	524937800	499930400	505228200	537292600	537635800	521004900	3.4
56 4,4'-DDD	478080000	460609500	471997200	497722200	498212200	481324200	3.4
57 Endosulfan II	547997500	528768400	514197400	542595000	533578000	533427200	2.5
58 4,4'-DDT	553197200	491271400	500520800	535897900	539375500	524052600	5.1
59 Endrin aldehyde	452647200	421606100	412150600	429378800	420416600	427239900	3.6
60 Endosulfan sulfate	512464000	479824600	470765600	479900300	468068400	482204600	3.7
61 Methoxychlor	267453800	245550400	246756700	254769600	240013800	250908900	4.2
62 Endrin ketone	594455200	588462100	573748200	594779900	570056000	584300300	2.0
64 4,4'-DDE	571584200	552460600	578171400	607901100	609753800	583974200	4.2
66 Isodrin	635767000	615702800	609773600	623814800	645847300	626181100	2.3
1 Tetrachloro-m-xylene	539293200	550328200	538679400	532836400	561462600	544520000	2.1
11 Decachlorobiphenyl	493047600	447144600	390411800	389535600	355096900	415047300	13.2

Amount = Response divided by CF

CF - Calibration Factor (response divided by concentration).

RSD - Relative Standard Deviation.

Pace Analytical Services, Inc.
Initial Calibration Retention Time Summary

Start Cal Date: 02-APR-2008 13:15
End Cal Date : 02-APR-2008 15:27
Quant Method : ESTD
Cal Curve Type: Average CF
Integrator : Falcon
Method File : \\diana\target\6890q.i\Q40208Pest-2.b\Q40208Pest-2.M
Method : Method 8081
Sublist : INDC+.sub
Column : RTX-CLP2
Column Size : 30m L - 0.32mm ID

Calibration Files:
Level 1: //diana/target/6890q.i/Q40208Pest-2.b/Q4020806.d
Level 2: //diana/target/6890q.i/Q40208Pest-2.b/Q4020807.d
Level 3: //diana/target/6890q.i/Q40208Pest-2.b/Q4020808.d
Level 4: //diana/target/6890q.i/Q40208Pest-2.b/Q4020809.d
Level 5: //diana/target/6890q.i/Q40208Pest-2.b/Q4020810.d

Compound	Level 1	Level 2	Level 3	Level 4	Level 5	Ave RT
44 alpha-BHC	8.44	8.44	8.44	8.44	8.44	8.440
45 gamma-BHC (Lindane)	9.09	9.10	9.09	9.09	9.09	9.092
46 beta-BHC	9.25	9.26	9.26	9.26	9.26	9.258
47 Heptachlor	9.86	9.86	9.86	9.86	9.86	9.860
48 delta-BHC	9.76	9.76	9.76	9.76	9.76	9.760
49 Aldrin	10.39	10.39	10.39	10.39	10.39	10.390
50 Heptachlor epoxide	11.31	11.31	11.31	11.31	11.31	11.310
51 gamma-Chlordane	11.60	11.61	11.60	11.60	11.60	11.602
52 alpha-Chlordane	11.83	11.83	11.83	11.83	11.83	11.830
53 Endosulfan I	11.91	11.91	11.91	11.91	11.91	11.910

Retention times are expressed as minutes.

Pace Analytical Services, Inc.
Initial Calibration Retention Time Summary

Start Cal Date: 02-APR-2008 13:15
End Cal Date : 02-APR-2008 15:27
Quant Method : ESTD
Cal Curve Type: Average CF
Integrator : Falcon
Method File : \\diana\target\6890q.i\Q40208Pest-2.b\Q40208Pest-2.M
Method : Method 8081
Sublist : INDC+.sub
Column : RTX-CLP2
Column Size : 30m L - 0.32mm ID

Compound	Level 1	Level 2	Level 3	Level 4	Level 5	Ave RT
54 Dieldrin	12.33	12.33	12.33	12.33	12.32	12.328
55 Endrin	12.78	12.78	12.78	12.78	12.78	12.780
56 4,4'-DDD	12.95	12.96	12.96	12.96	12.95	12.956
57 Endosulfan II	13.09	13.10	13.09	13.09	13.09	13.092
58 4,4'-DDT	13.42	13.42	13.42	13.41	13.41	13.416
59 Endrin aldehyde	13.59	13.59	13.59	13.59	13.59	13.590
60 Endosulfan sulfate	14.00	14.00	14.00	14.00	13.99	13.998
61 Methoxychlor	14.41	14.41	14.41	14.41	14.41	14.410
62 Endrin ketone	14.77	14.77	14.77	14.77	14.77	14.770
64 4,4'-DDE	12.10	12.10	12.10	12.10	12.09	12.098
66 Isodrin	11.02	11.02	11.02	11.02	11.02	11.020
1 Tetrachloro-m-xylene	7.19	7.20	7.20	7.20	7.20	7.198
11 Decachlorobiphenyl	16.59	16.59	16.59	16.59	16.59	16.590

Retention times are expressed as minutes.

Pace Analytical Services, Inc.
Initial Calibration Amounts Summary

Start Cal Date: 02-APR-2008 13:15
End Cal Date : 02-APR-2008 15:27
Quant Method : ESTD
Cal Curve Type: Average CF
Integrator : Falcon
Method File : \\diana\target\6890q.i\Q40208Pest-2.b\Q40208Pest-2.M
Method : Method 8081
Sublist : INDC+.sub
Column : RTX-CLP2
Column Size : 30m L - 0.32mm ID

Calibration Files:
Level 1: //diana/target/6890q.i/Q40208Pest-2.b/Q4020806.d
Level 2: //diana/target/6890q.i/Q40208Pest-2.b/Q4020807.d
Level 3: //diana/target/6890q.i/Q40208Pest-2.b/Q4020808.d
Level 4: //diana/target/6890q.i/Q40208Pest-2.b/Q4020809.d
Level 5: //diana/target/6890q.i/Q40208Pest-2.b/Q4020810.d

Compound	Level 1	Level 2	Level 3	Level 4	Level 5
44 alpha-BHC	0.00200	0.00400	0.01000	0.02000	0.04000
45 gamma-BHC (Lindane)	0.00200	0.00400	0.01000	0.02000	0.04000
46 beta-BHC	0.00200	0.00400	0.01000	0.02000	0.04000
47 Heptachlor	0.00200	0.00400	0.01000	0.02000	0.04000
48 delta-BHC	0.00200	0.00400	0.01000	0.02000	0.04000
49 Aldrin	0.00200	0.00400	0.01000	0.02000	0.04000
50 Heptachlor epoxide	0.00200	0.00400	0.01000	0.02000	0.04000
51 gamma-Chlordane	0.00200	0.00400	0.01000	0.02000	0.04000
52 alpha-Chlordane	0.00200	0.00400	0.01000	0.02000	0.04000
53 Endosulfan I	0.00200	0.00400	0.01000	0.02000	0.04000

Standard concentrations are expressed as ng.

Pace Analytical Services, Inc.
Initial Calibration Amounts Summary

Start Cal Date: 02-APR-2008 13:15
End Cal Date : 02-APR-2008 15:27
Quant Method : ESTD
Cal Curve Type: Average CF
Integrator : Falcon
Method File : \\diana\target\6890q.i\Q40208Pest-2.b\Q40208Pest-2.M
Method : Method 8081
Sublist : INDC+.sub
Column : RTX-CLP2
Column Size : 30m L - 0.32mm ID

Compound	Level 1	Level 2	Level 3	Level 4	Level 5
54 Dieldrin	0.00400	0.00800	0.02000	0.04000	0.08000
55 Endrin	0.00400	0.00800	0.02000	0.04000	0.08000
56 4,4'-DDD	0.00400	0.00800	0.02000	0.04000	0.08000
57 Endosulfan II	0.00400	0.00800	0.02000	0.04000	0.08000
58 4,4'-DDT	0.00400	0.00800	0.02000	0.04000	0.08000
59 Endrin aldehyde	0.00400	0.00800	0.02000	0.04000	0.08000
60 Endosulfan sulfate	0.00400	0.00800	0.02000	0.04000	0.08000
61 Methoxychlor	0.02000	0.04000	0.10000	0.20000	0.40000
62 Endrin ketone	0.00400	0.00800	0.02000	0.04000	0.08000
64 4,4'-DDE	0.00400	0.00800	0.02000	0.04000	0.08000
66 Isodrin	0.00200	0.00400	0.01000	0.02000	0.04000
1 Tetrachloro-m-xylene	0.00250	0.00500	0.01250	0.02500	0.05000
11 Decachlorobiphenyl	0.00250	0.00500	0.01250	0.02500	0.05000

Standard concentrations are expressed as ng.

SUM - 60

Pace Analytical Services, Inc.
Initial Calibration Response Summary

Start Cal Date: 02-APR-2008 13:15
End Cal Date : 02-APR-2008 15:27
Quant Method : ESTD
Cal Curve Type: Average CF
Integrator : Falcon
Method File : \\diana\target\6890q.i\Q40208Pest-2.b\Q40208Pest-2.M
Method : Method 8081
Sublist : INDC+.sub
Column : RTX-CLP2
Column Size : 30m L - 0.32mm ID

Calibration Files:
Level 1: //diana/target/6890q.i/Q40208Pest-2.b/Q4020806.d
Level 2: //diana/target/6890q.i/Q40208Pest-2.b/Q4020807.d
Level 3: //diana/target/6890q.i/Q40208Pest-2.b/Q4020808.d
Level 4: //diana/target/6890q.i/Q40208Pest-2.b/Q4020809.d
Level 5: //diana/target/6890q.i/Q40208Pest-2.b/Q4020810.d

Compound	Level 1	Level 2	Level 3	Level 4	Level 5
44 alpha-BHC	1462219.0	3101940.0	8103652.0	16822476	35921431
45 gamma-BHC (Lindane)	1424063.0	3003951.0	7820827.0	15880064	33456383
46 beta-BHC	697341.00	1348972.0	3158400.0	6154209.0	12474437
47 Heptachlor	1410027.0	2757267.0	6995604.0	14336606	29977515
48 delta-BHC	1385874.0	2844967.0	7400486.0	15575434	32831964
49 Aldrin	1278424.0	2634217.0	6659585.0	13780049	28474103
50 Heptachlor epoxide	1327368.0	2531443.0	6160814.0	12572421	26018614
51 gamma-Chlordane	1270123.0	2440167.0	5997697.0	12378158	25088817
52 alpha-Chlordane	1248757.0	2375828.0	5788473.0	11590772	23912129
53 Endosulfan I	1212193.0	2270653.0	5583446.0	11457867	23172036

Response is in Height units.

Pace Analytical Services, Inc.
Initial Calibration Response Summary

Start Cal Date: 02-APR-2008 13:15
End Cal Date : 02-APR-2008 15:27
Quant Method : ESTD
Cal Curve Type: Average CF
Integrator : Falcon
Method File : \\diana\target\6890q.i\Q40208Pest-2.b\Q40208Pest-2.M
Method : Method 8081
Sublist : INDC+.sub
Column : RTX-CLP2
Column Size : 30m L - 0.32mm ID

Compound	Level 1	Level 2	Level 3	Level 4	Level 5
54 Dieldrin	2442874.0	4894793.0	12555450	25776889	52705453
55 Endrin	2099751.0	3999443.0	10104564	21491704	43010860
56 4,4'-DDD	1912320.0	3684876.0	9439945.0	19908890	39856980
57 Endosulfan II	2191990.0	4230147.0	10283947	21703798	42686237
58 4,4'-DDT	2212789.0	3930171.0	10010417	21435917	43150042
59 Endrin aldehyde	1810589.0	3372849.0	8243013.0	17175151	33633330
60 Endosulfan sulfate	2049856.0	3838597.0	9415312.0	19196013	37445475
61 Methoxychlor	5349077.0	9822016.0	24675668	50953930	96005503
62 Endrin ketone	2377821.0	4707697.0	11474963	23791195	45604479
64 4,4'-DDE	2286337.0	4419685.0	11563427	24316045	48780304
66 Isodrin	1271534.0	2462811.0	6097736.0	12476297	25833891
1 Tetrachloro-m-xylene	1348233.0	2751641.0	6733492.0	13320911	28073132
11 Decachlorobiphenyl	1232619.0	2235723.0	4880148.0	9738390.0	17754845

Response is in Height units.

Pace Analytical Services, Inc.
Initial Calibration Linearity Summary

Start Cal Date: 02-APR-2008 16:33
End Cal Date : 02-APR-2008 16:33
Quant Method : ESTD
Cal Curve Type: Average CF
Integrator : Falcon
Method File : \\diana\target\6890q.i\Q40208Pest-2.b\Q40208Pest-2.M
Method : Method 8081
Sublist : TOX.sub
Column : RTX-CLP2
Column Size : 30m L - 0.32mm ID

Calibration Files:
Level 1: //diana/target/6890q.i/Q40208Pest-2.b/Q4020812.d

Compound	Level 1	Ave CF	%RSD
Toxaphene-1	15728460	15728460	0.0
Toxaphene-2	11255600	11255600	0.0
Toxaphene-3	15526540	15526540	0.0
Toxaphene-4	11633720	11633720	0.0
Toxaphene-5	8617340	8617340	0.0

Amount = Response divided by CF

CF - Calibration Factor (response divided by concentration).
RSD - Relative Standard Deviation.

Pace Analytical Services, Inc.
Initial Calibration Retention Time Summary

Start Cal Date: 02-APR-2008 16:33
End Cal Date : 02-APR-2008 16:33
Quant Method : ESTD
Cal Curve Type: Average CF
Integrator : Falcon
Method File : \\diana\target\6890q.i\Q40208Pest-2.b\Q40208Pest-2.M
Method : Method 8081
Sublist : TOX.sub
Column : RTX-CLP2
Column Size : 30m L - 0.32mm ID

Calibration Files:
Level 1: //diana/target/6890q.i/Q40208Pest-2.b/Q4020812.d

Compound	Level 1	Ave RT
Toxaphene-1	13.22	13.220
Toxaphene-2	13.60	13.600
Toxaphene-3	14.35	14.350
Toxaphene-4	14.43	14.430
Toxaphene-5	14.51	14.510

Retention times are expressed as minutes.

SUM - 64

Pace Analytical Services, Inc.
Initial Calibration Amounts Summary

Start Cal Date: 02-APR-2008 16:33
End Cal Date : 02-APR-2008 16:33
Quant Method : ESTD
Cal Curve Type: Average CF
Integrator : Falcon
Method File : \\diana\target\6890q.i\Q40208Pest-2.b\Q40208Pest-2.M
Method : Method 8081
Sublist : TOX.sub
Column : RTX-CLP2
Column Size : 30m L - 0.32mm ID

Calibration Files:
Level 1: //diana/target/6890q.i/Q40208Pest-2.b/Q4020812.d

Compound	Level 1
Toxaphene-1	0.05000
Toxaphene-2	0.05000
Toxaphene-3	0.05000
Toxaphene-4	0.05000
Toxaphene-5	0.05000

Standard concentrations are expressed as ng.

SUM - 65

Pace Analytical Services, Inc.
Initial Calibration Response Summary

Start Cal Date: 02-APR-2008 16:33
End Cal Date : 02-APR-2008 16:33
Quant Method : ESTD
Cal Curve Type: Average CF
Integrator : Falcon
Method File : \\diana\target\6890q.i\Q40208Pest-2.b\Q40208Pest-2.M
Method : Method 8081
Sublist : TOX.sub
Column : RTX-CLP2
Column Size : 30m L - 0.32mm ID

Calibration Files:
Level 1: //diana/target/6890q.i/Q40208Pest-2.b/Q4020812.d

Compound	Level 1
Toxaphene-1	786423.00
Toxaphene-2	562780.00
Toxaphene-3	776327.00
Toxaphene-4	581686.00
Toxaphene-5	430867.00

Response is in Height units.

Pace Analytical Services, Inc.
Continuing Calibration Verification Summary

Data File	: //diana/target/6890q.i/Q40208Pest-2.b/Q4020813.d		
Injection Date	: 02-APR-2008 17:06		
Sample Info	: INDC+ CCV 2ND		
Misc. Info	: Method 8081		
Laboratory ID	: INDC+ CCV 2ND	Client ID	: PX-4-43-3/4
Instrument ID	: 6890Q.i		
Method	: Q40208Pest-2.M	Sublist	: INDC+
Quantitation	: ESTD	Integrator	: Falcon
Dilution Factor	: 1.00	Sample Type	: CCALIB_5
Column	: RTX-CLP2	Column Size	: 30.00m L- 0.32mm ID

Compound	RT	RT Window	Expected Amount	Continuing Amount	%D	Flag
Tetrachloro-m-xylene	7.20	7.15 - 7.25	0.01250	0.01059	-15.2	X
alpha-BHC	8.44	8.39 - 8.49	0.01000	0.009671	-3.3	
gamma-BHC (Lindane)	9.10	9.04 - 9.14	0.01000	0.009955	-0.4	
beta-BHC	9.26	9.21 - 9.31	0.01000	0.01025	2.5	
delta-BHC	9.76	9.71 - 9.81	0.01000	0.008774	-12.3	
Heptachlor	9.86	9.81 - 9.91	0.01000	0.01034	3.5	
Aldrin	10.39	10.34 - 10.44	0.01000	0.01057	5.7	
Isodrin	11.02	10.95 - 11.09	0.01000	0.008871	-11.3	
Heptachlor epoxide	11.31	11.24 - 11.38	0.01000	0.01019	1.9	
gamma-Chlordane	11.60	11.53 - 11.67	0.01000	0.01022	2.2	
alpha-Chlordane	11.83	11.76 - 11.90	0.01000	0.01061	6.1	
Endosulfan I	11.91	11.84 - 11.98	0.01000	0.01032	3.2	
4,4'-DDE	12.10	12.02 - 12.16	0.02000	0.02134	6.7	
Dieldrin	12.32	12.25 - 12.39	0.02000	0.02120	6.0	
Endrin	12.78	12.71 - 12.85	0.02000	0.02083	4.1	
4,4'-DDD	12.96	12.88 - 13.02	0.02000	0.02089	4.5	
Endosulfan II	13.09	13.02 - 13.16	0.02000	0.02087	4.3	
4,4'-DDT	13.42	13.34 - 13.48	0.02000	0.01828	-8.6	
Endrin aldehyde	13.59	13.52 - 13.66	0.02000	0.02094	4.7	

%Drift (%D) = Continuing Amount - Expected Amount divided by Expected Amount times 100

Pace Analytical Services, Inc.
Continuing Calibration Verification Summary

Data File : Q4020813.d
Injection Date : 02-APR-2008 17:06

Compound	RT	RT Window	Expected Amount	Continuing Amount	%D	Flag
Endosulfan sulfate	14.00	13.92 - 14.06	0.02000	0.01914	-4.3	
Methoxychlor	14.41	14.34 - 14.48	0.1000	0.1060	6.0	
Endrin ketone	14.77	14.70 - 14.84	0.02000	0.02075	3.8	
Decachlorobiphenyl	16.59	16.49 - 16.69	0.01250	0.01128	-9.7	
Average Percent Difference					5.7	

%Drift (%D) = Continuing Amount - Expected Amount divided by Expected Amount times 100

Pace Analytical Services, Inc.
BATCH SUMMARY (for databatch - \\diana\target\6890q.i\Q40208Pest-1.b)

	Filename	Lab Sample ID	Client Sample ID	SDG	I.V.	D.F.	Inj. Date & Time
1	Q4150803.d	PEM	PX-8-43-7	PEM	2	1	15-APR-2008 08:50
2	Q4150808.d	INDC+ CCV (L3)	PX-8-43-9/4	CCV	2	1	15-APR-2008 12:25
3	Q4150809.d	B041008GPBSLO	B041008GPBSLO		1	1	15-APR-2008 13:12
4	Q4150810.d	S041008GPBSLO	S041008GPBSLO		1	1	15-APR-2008 13:45
5	Q4150813.d	TT46701-001	09SS 109 0002	TT46701	1	100	15-APR-2008 15:30
6	Q4150814.d	TT46701-004	09SS 112 0002	TT46701	1	100	15-APR-2008 16:03
7	Q4150816.d	INDC+ CCV (L3)	PX-8-43-9/4	CCV	2	1	15-APR-2008 17:09
8	Q4150817.d	TT46701-005	09SS 113 0002	TT46701	1	100	15-APR-2008 17:42
9	Q4150818.d	TT46701-011	09SS 119 0002	TT46701	1	200	15-APR-2008 18:15
10	Q4150819.d	TT46701-012	09SS 120 0002	TT46701	1	200	15-APR-2008 18:48
11	Q4150821.d	TT46701-002	09SS 110 0002	TT46701	1	400	15-APR-2008 19:54
12	Q4150822.d	TT46701-016	09SS 124 0002	TT46701	1	500	15-APR-2008 20:28
13	Q4150824.d	INDC+ CCV (L3)	PX-8-43-9/4	CCV	2	1	15-APR-2008 21:34

I.V. = Inj.Vol. per Column Batch Summary Ver 2.0 9-5-2002

Pace Analytical Services, Inc.
Continuing Calibration Verification Summary

Data File	: //diana/target/6890q.i/Q40208Pest-1.b/Q4150808.d		
Injection Date	: 15-APR-2008 12:25		
Sample Info	: INDC+ CCV (L3)		
Misc. Info	: Method 8081		
Laboratory ID	: INDC+ CCV (L3)	Client ID	: PX-8-43-9/4
Instrument ID	: 6890Q.i		
Method	: Q40208Pest-1.m	Sublist	: INDC
Quantitation	: ESTD	Integrator	: Falcon
Dilution Factor	: 1.00	Sample Type	: CCALIB_5
Column	: RTX-CLP	Column Size	: 30.00m L- 0.32mm ID

Compound	RT	RT Window	Expected Amount	Continuing Amount	%D	Flag
Tetrachloro-m-xylene	7.34	7.29 - 7.39	0.01250	0.01245	-0.4	
alpha-BHC	8.49	8.44 - 8.54	0.01000	0.01015	1.5	
gamma-BHC (Lindane)	9.09	9.05 - 9.15	0.01000	0.01008	0.8	
beta-BHC	9.26	9.22 - 9.32	0.01000	0.009915	-0.8	
delta-BHC	9.58	9.53 - 9.63	0.01000	0.009955	-0.4	
Heptachlor	9.94	9.89 - 9.99	0.01000	0.01003	0.3	
Aldrin	10.45	10.40 - 10.50	0.01000	0.009833	-1.7	
Heptachlor epoxide	11.44	11.37 - 11.51	0.01000	0.009543	-4.6	
gamma-Chlordane	11.63	11.57 - 11.71	0.01000	0.009383	-6.2	
alpha-Chlordane	11.84	11.77 - 11.91	0.01000	0.009578	-4.2	
4,4'-DDE	11.96	11.89 - 12.03	0.02000	0.01943	-2.8	
Endosulfan I	12.06	11.99 - 12.13	0.01000	0.009308	-6.9	
Dieldrin	12.42	12.36 - 12.50	0.02000	0.01946	-2.7	
Endrin	12.78	12.71 - 12.85	0.02000	0.01873	-6.3	
4,4'-DDD	12.87	12.80 - 12.94	0.02000	0.01901	-4.9	
Endosulfan II	13.12	13.05 - 13.19	0.02000	0.01855	-7.2	
4,4'-DDT	13.28	13.21 - 13.35	0.02000	0.02054	2.7	
Endrin aldehyde	13.74	13.68 - 13.82	0.02000	0.01870	-6.5	
Methoxychlor	13.98	13.91 - 14.05	0.1000	0.09290	-7.1	

%Drift (%D) = Continuing Amount - Expected Amount divided by Expected Amount times 100

Pace Analytical Services, Inc.
Continuing Calibration Verification Summary

Data File : Q4150808.d
Injection Date : 15-APR-2008 12:25

Compound	RT	RT Window	Expected Amount	Continuing Amount	%D	Flag
Endosulfan sulfate	14.38	14.32 - 14.46	0.02000	0.01869	-6.5	
Endrin Ketone	14.80	14.73 - 14.87	0.02000	0.01845	-7.7	
Decachlorobiphenyl	16.22	16.12 - 16.32	0.01250	0.01044	-16.5	X
Average Percent Difference					4.5	

%Drift (%D) = Continuing Amount - Expected Amount divided by Expected Amount times 100

Pace Analytical Services, Inc.
Continuing Calibration Verification Summary

Data File : //diana/target/6890q.i/Q40208Pest-2.b/Q4150808.d
Injection Date : 15-APR-2008 12:25
Sample Info : INDC+ CCV (L3)
Misc. Info : Method 8081
Laboratory ID : INDC+ CCV (L3) Client ID : PX-8-43-9/4
Instrument ID : 6890Q.i
Method : Q40208Pest-2.m Sublist : INDC
Quantitation : ESTD Integrator : Falcon
Dilution Factor : 1.00 Sample Type: CCALIB_5
Column : RTX-CLP2 Column Size: 30.00m L- 0.32mm ID

Compound	RT	RT Window	Expected Amount	Continuing Amount	%D	Flag
Tetrachloro-m-xylene	7.19	7.15 - 7.25	0.01250	0.01176	-5.9	
alpha-BHC	8.43	8.39 - 8.49	0.01000	0.009633	-3.7	
gamma-BHC (Lindane)	9.08	9.04 - 9.14	0.01000	0.009715	-2.8	
beta-BHC	9.24	9.21 - 9.31	0.01000	0.009570	-4.3	
delta-BHC	9.75	9.71 - 9.81	0.01000	0.009843	-1.6	
Heptachlor	9.84	9.81 - 9.91	0.01000	0.009655	-3.4	
Aldrin	10.38	10.34 - 10.44	0.01000	0.009723	-2.8	
Heptachlor epoxide	11.30	11.24 - 11.38	0.01000	0.009521	-4.8	
gamma-Chlordane	11.59	11.53 - 11.67	0.01000	0.009527	-4.7	
alpha-Chlordane	11.82	11.76 - 11.90	0.01000	0.009548	-4.5	
Endosulfan I	11.90	11.84 - 11.98	0.01000	0.009416	-5.8	
4,4'-DDE	12.08	12.02 - 12.16	0.02000	0.01969	-1.5	
Dieldrin	12.31	12.25 - 12.39	0.02000	0.01976	-1.2	
Endrin	12.76	12.71 - 12.85	0.02000	0.01960	-2.0	
4,4'-DDD	12.94	12.88 - 13.02	0.02000	0.01981	-0.9	
Endosulfan II	13.08	13.02 - 13.16	0.02000	0.01888	-5.6	
4,4'-DDT	13.40	13.34 - 13.48	0.02000	0.02105	5.2	
Endrin aldehyde	13.58	13.52 - 13.66	0.02000	0.01910	-4.5	
Endosulfan sulfate	13.98	13.92 - 14.06	0.02000	0.01911	-4.5	

%Drift (%D) = Continuing Amount - Expected Amount divided by Expected Amount times 100

Pace Analytical Services, Inc.
Continuing Calibration Verification Summary

Data File : Q4150808.d
Injection Date : 15-APR-2008 12:25

Compound	RT	RT Window	Expected Amount	Continuing Amount	%D	Flag
Methoxychlor	14.40	14.34 - 14.48	0.1000	0.09563	-4.4	
Endrin ketone	14.76	14.70 - 14.84	0.02000	0.01899	-5.0	
Decachlorobiphenyl	16.58	16.49 - 16.69	0.01250	0.01042	-16.6	Y
Average Percent Difference					4.4	

%Drift (%D) = Continuing Amount - Expected Amount divided by Expected Amount times 100

Pace Analytical Services, Inc.
Continuing Calibration Verification Summary

Data File	: //diana/target/6890q.i/Q40208Pest-1.b/Q4150816.d		
Injection Date	: 15-APR-2008 17:09		
Sample Info	: INDC+ CCV (L3)		
Misc. Info	: Method 8081		
Laboratory ID	: INDC+ CCV (L3)	Client ID	: PX-8-43-9/4
Instrument ID	: 6890Q.i		
Method	: Q40208Pest-1.m	Sublist	: INDC
Quantitation	: ESTD	Integrator	: Falcon
Dilution Factor	: 1.00	Sample Type	: CCALIB 5
Column	: RTX-CLP	Column Size	: 30.00m L- 0.32mm ID

Compound	RT	RT Window	Expected Amount	Continuing Amount	%D	Flag
Tetrachloro-m-xylene	7.34	7.29 - 7.39	0.01250	0.01230	-1.6	
alpha-BHC	8.49	8.44 - 8.54	0.01000	0.01018	1.8	
gamma-BHC (Lindane)	9.09	9.05 - 9.15	0.01000	0.01004	0.4	
beta-BHC	9.26	9.22 - 9.32	0.01000	0.009882	-1.2	
delta-BHC	9.58	9.53 - 9.63	0.01000	0.01022	2.2	
Heptachlor	9.94	9.89 - 9.99	0.01000	0.01006	0.6	
Aldrin	10.45	10.40 - 10.50	0.01000	0.009823	-1.8	
Heptachlor epoxide	11.44	11.37 - 11.51	0.01000	0.009857	-1.4	
gamma-Chlordane	11.63	11.57 - 11.71	0.01000	0.009510	-4.9	
alpha-Chlordane	11.84	11.77 - 11.91	0.01000	0.009609	-3.9	
4,4'-DDE	11.96	11.89 - 12.03	0.02000	0.01961	-2.0	
Endosulfan I	12.06	11.99 - 12.13	0.01000	0.009440	-5.6	
Dieldrin	12.42	12.36 - 12.50	0.02000	0.01965	-1.7	
Endrin	12.78	12.71 - 12.85	0.02000	0.01908	-4.6	
4,4'-DDD	12.87	12.80 - 12.94	0.02000	0.01854	-7.3	
Endosulfan II	13.12	13.05 - 13.19	0.02000	0.01879	-6.0	
4,4'-DDT	13.28	13.21 - 13.35	0.02000	0.01908	-4.6	
Endrin aldehyde	13.74	13.68 - 13.82	0.02000	0.02037	1.8	
Methoxychlor	13.98	13.91 - 14.05	0.1000	0.09170	-8.3	

%Drift (%D) = Continuing Amount - Expected Amount divided by Expected Amount times 100

Pace Analytical Services, Inc.
Continuing Calibration Verification Summary

Data File : Q4150816.d
Injection Date : 15-APR-2008 17:09

Compound	RT	RT Window	Expected Amount	Continuing Amount	%D	Flag
Endosulfan sulfate	14.38	14.32 - 14.46	0.02000	0.01904	-4.8	
Endrin Ketone	14.80	14.73 - 14.87	0.02000	0.01884	-5.8	
Decachlorobiphenyl	16.22	16.12 - 16.32	0.01250	0.01010	-19.2	X
Average Percent Difference					4.2	

%Drift (%D) = Continuing Amount - Expected Amount divided by Expected Amount times 100

Pace Analytical Services, Inc.
Continuing Calibration Verification Summary

Data File : //diana/target/6890q.i/Q40208Pest-2.b/Q4150816.d
Injection Date : 15-APR-2008 17:09
Sample Info : INDC+ CCV (L3)
Misc. Info : Method 8081
Laboratory ID : INDC+ CCV (L3) Client ID : PX-8-43-9/4
Instrument ID : 6890Q.i
Method : Q40208Pest-2.m Sublist : INDC
Quantitation : ESTD Integrator : Falcon
Dilution Factor : 1.00 Sample Type: CCALIB_5
Column : RTX-CLP2 Column Size: 30.00m L- 0.32mm ID

Compound	RT	RT Window	Expected Amount	Continuing Amount	%D	Flag
Tetrachloro-m-xylene	7.19	7.15 - 7.25	0.01250	0.01154	-7.7	
alpha-BHC	8.43	8.39 - 8.49	0.01000	0.009761	-2.4	
gamma-BHC (Lindane)	9.08	9.04 - 9.14	0.01000	0.009794	-2.1	
beta-BHC	9.24	9.21 - 9.31	0.01000	0.009600	-4.0	
delta-BHC	9.75	9.71 - 9.81	0.01000	0.01000	0.0	
Heptachlor	9.85	9.81 - 9.91	0.01000	0.009650	-3.5	
Aldrin	10.38	10.34 - 10.44	0.01000	0.009677	-3.2	
Heptachlor epoxide	11.29	11.24 - 11.38	0.01000	0.009462	-5.4	
gamma-Chlordane	11.59	11.53 - 11.67	0.01000	0.009540	-4.6	
alpha-Chlordane	11.81	11.76 - 11.90	0.01000	0.009597	-4.0	
Endosulfan I	11.90	11.84 - 11.98	0.01000	0.009604	-4.0	
4,4'-DDE	12.08	12.02 - 12.16	0.02000	0.01979	-1.0	
Dieldrin	12.31	12.25 - 12.39	0.02000	0.01970	-1.5	
Endrin	12.76	12.71 - 12.85	0.02000	0.01932	-3.4	
4,4'-DDD	12.94	12.88 - 13.02	0.02000	0.01933	-3.3	
Endosulfan II	13.08	13.02 - 13.16	0.02000	0.01908	-4.6	
4,4'-DDT	13.40	13.34 - 13.48	0.02000	0.01968	-1.6	
Endrin aldehyde	13.57	13.52 - 13.66	0.02000	0.01926	-3.7	
Endosulfan sulfate	13.98	13.92 - 14.06	0.02000	0.01958	-2.1	

%Drift (%D) = Continuing Amount - Expected Amount divided by Expected Amount times 100

Pace Analytical Services, Inc.
Continuing Calibration Verification Summary

Data File : Q4150816.d
Injection Date : 15-APR-2008 17:09

Compound	RT	RT Window	Expected Amount	Continuing Amount	%D	Flag
Methoxychlor	14.40	14.34 - 14.48	0.1000	0.09610	-3.9	
Endrin ketone	14.76	14.70 - 14.84	0.02000	0.01927	-3.6	
Decachlorobiphenyl	16.57	16.49 - 16.69	0.01250	0.01017	-18.7	*
Average Percent Difference					4.0	

%Drift (%D) = Continuing Amount - Expected Amount divided by Expected Amount times 100

Pace Analytical Services, Inc.
Continuing Calibration Verification Summary

Data File	: //diana/target/6890q.i/Q40208Pest-1.b/Q4150824.d		
Injection Date	: 15-APR-2008 21:34		
Sample Info	: INDC+ CCV (L3)		
Misc. Info	: Method 8081		
Laboratory ID	: INDC+ CCV (L3)	Client ID	: PX-8-43-9/4
Instrument ID	: 6890Q.i		
Method	: Q40208Pest-1.m	Sublist	: INDC
Quantitation	: ESTD	Integrator	: Falcon
Dilution Factor	: 1.00	Sample Type	: CCALIB_5
Column	: RTX-CLP	Column Size	: 30.00m L- 0.32mm ID

Compound	RT	RT Window	Expected Amount	Continuing Amount	%D	Flag
Tetrachloro-m-xylene	7.34	7.29 - 7.39	0.01250	0.01209	-3.3	
alpha-BHC	8.49	8.44 - 8.54	0.01000	0.01017	1.7	
gamma-BHC (Lindane)	9.10	9.05 - 9.15	0.01000	0.01001	0.1	
beta-BHC	9.26	9.22 - 9.32	0.01000	0.009814	-1.9	
delta-BHC	9.58	9.53 - 9.63	0.01000	0.01000	0.1	
Heptachlor	9.94	9.89 - 9.99	0.01000	0.01006	0.6	
Aldrin	10.45	10.40 - 10.50	0.01000	0.009879	-1.2	
Heptachlor epoxide	11.44	11.37 - 11.51	0.01000	0.009761	-2.4	
gamma-Chlordane	11.63	11.57 - 11.71	0.01000	0.009435	-5.7	
alpha-Chlordane	11.84	11.77 - 11.91	0.01000	0.009641	-3.6	
4,4'-DDE	11.96	11.89 - 12.03	0.02000	0.01958	-2.1	
Endosulfan I	12.06	11.99 - 12.13	0.01000	0.009564	-4.4	
Dieldrin	12.42	12.36 - 12.50	0.02000	0.01951	-2.4	
Endrin	12.78	12.71 - 12.85	0.02000	0.01904	-4.8	
4,4'-DDD	12.87	12.80 - 12.94	0.02000	0.01887	-5.7	
Endosulfan II	13.12	13.05 - 13.19	0.02000	0.01900	-5.0	
4,4'-DDT	13.28	13.21 - 13.35	0.02000	0.01952	-2.4	
Endrin aldehyde	13.74	13.68 - 13.82	0.02000	0.02012	0.6	
Methoxychlor	13.98	13.91 - 14.05	0.1000	0.09315	-6.8	

%Drift (%D) = Continuing Amount - Expected Amount divided by Expected Amount times 100

Pace Analytical Services, Inc.
Continuing Calibration Verification Summary

Data File : Q4150824.d
Injection Date : 15-APR-2008 21:34

Compound	RT	RT Window	Expected Amount	Continuing Amount	%D	Flag
Endosulfan sulfate	14.38	14.32 - 14.46	0.02000	0.01930	-3.5	
Endrin Ketone	14.80	14.73 - 14.87	0.02000	0.01923	-3.8	
Decachlorobiphenyl	16.22	16.12 - 16.32	0.01250	0.01146	-8.3	
Average Percent Difference					3.2	

%Drift (%D) = Continuing Amount - Expected Amount divided by Expected Amount times 100

Pace Analytical Services, Inc.
Continuing Calibration Verification Summary

Data File	: //diana/target/6890q.i/Q40208Pest-2.b/Q4150824.d		
Injection Date	: 15-APR-2008 21:34		
Sample Info	: INDC+ CCV (L3)		
Misc. Info	: Method 8081		
Laboratory ID	: INDC+ CCV (L3)	Client ID	: PX-8-43-9/4
Instrument ID	: 6890Q.i		
Method	: Q40208Pest-2.m	Sublist	: INDC
Quantitation	: ESTD	Integrator	: Falcon
Dilution Factor	: 1.00	Sample Type	: CCALIB_5
Column	: RTX-CLP2	Column Size	: 30.00m L- 0.32mm ID

Compound	RT	RT Window	Expected Amount	Continuing Amount	%D	Flag
Tetrachloro-m-xylene	7.19	7.15 - 7.25	0.01250	0.01147	-8.2	
alpha-BHC	8.43	8.39 - 8.49	0.01000	0.009763	-2.4	
gamma-BHC (Lindane)	9.08	9.04 - 9.14	0.01000	0.009690	-3.1	
beta-BHC	9.25	9.21 - 9.31	0.01000	0.009528	-4.7	
delta-BHC	9.75	9.71 - 9.81	0.01000	0.009781	-2.2	
Heptachlor	9.85	9.81 - 9.91	0.01000	0.009796	-2.0	
Aldrin	10.38	10.34 - 10.44	0.01000	0.009752	-2.5	
Heptachlor epoxide	11.30	11.24 - 11.38	0.01000	0.009585	-4.2	
gamma-Chlordane	11.59	11.53 - 11.67	0.01000	0.009594	-4.1	
alpha-Chlordane	11.82	11.76 - 11.90	0.01000	0.009701	-3.0	
Endosulfan I	11.90	11.84 - 11.98	0.01000	0.009568	-4.3	
4,4'-DDE	12.08	12.02 - 12.16	0.02000	0.02012	0.6	
Dieldrin	12.31	12.25 - 12.39	0.02000	0.01962	-1.9	
Endrin	12.76	12.71 - 12.85	0.02000	0.01973	-1.4	
4,4'-DDD	12.94	12.88 - 13.02	0.02000	0.01948	-2.6	
Endosulfan II	13.08	13.02 - 13.16	0.02000	0.01936	-3.2	
4,4'-DDT	13.40	13.34 - 13.48	0.02000	0.01987	-0.7	
Endrin aldehyde	13.57	13.52 - 13.66	0.02000	0.01928	-3.6	
Endosulfan sulfate	13.98	13.92 - 14.06	0.02000	0.01992	-0.4	

%Drift (%D) = Continuing Amount - Expected Amount divided by Expected Amount times 100

Pace Analytical Services, Inc.
Continuing Calibration Verification Summary

Data File : Q4150824.d
Injection Date : 15-APR-2008 21:34

Compound	RT	RT Window	Expected Amount	Continuing Amount	%D	Flag
Methoxychlor	14.40	14.34 - 14.48	0.1000	0.09729	-2.7	
Endrin ketone	14.76	14.70 - 14.84	0.02000	0.01988	-0.6	
Decachlorobiphenyl	16.57	16.49 - 16.69	0.01250	0.01143	-8.5	
Average Percent Difference					3.0	

%Drift (%D) = Continuing Amount - Expected Amount divided by Expected Amount times 100

Pace Analytical Services, Inc.
BATCH SUMMARY (for databatch - \\diana\target\6890q.i\Q42408Pest-1.b)

	Filename	Lab Sample ID	Client Sample ID	SDG	I.V.	D.F.	Inj. Date & Time
1	Q4240804.d	INDC+ L1	PX-8-43-9/20	CALIB	2	1	24-APR-2008 12:16
2	Q4240805.d	INDC+ L2	PX-8-43-9/10	CALIB	2	1	24-APR-2008 12:49
3	Q4240806.d	INDC+ L3	PX-8-43-9/4	CALIB	2	1	24-APR-2008 13:22
4	Q4240807.d	INDC+ L4	PX-8-43-9/2	CALIB	2	1	24-APR-2008 13:55
5	Q4240808.d	INDC+ L5	PX-8-43-9	CALIB	2	1	24-APR-2008 14:28
6	Q4240809.d	PI BLANK	PX-8-43-8	INSTBLAN	2	1	24-APR-2008 15:01
7	Q4240810.d	TOXAPHENE L1	PX-8-41-12/20	CALIB	2	1	24-APR-2008 15:34
8	Q4240811.d	INDC+ 2ND (L3)	PX-4-43-3/4	CCV	2	1	24-APR-2008 16:07

SUM - 70

Pace Analytical Services, Inc.
Initial Calibration Linearity Summary

Start Cal Date: 24-APR-2008 12:16
End Cal Date : 24-APR-2008 14:28
Quant Method : ESTD
Cal Curve Type: Average CF
Integrator : Falcon
Method File : \\diana\target\6890q.i\Q42408Pest-1.b\Q42408Pest-1.M
Method : Method 8081
Sublist : INDC+.sub
Column : RTX-CLP
Column Size : 30m L - 0.32mm ID

Calibration Files:
Level 1: //diana/target/6890q.i/Q42408Pest-1.b/Q4240804.d
Level 2: //diana/target/6890q.i/Q42408Pest-1.b/Q4240805.d
Level 3: //diana/target/6890q.i/Q42408Pest-1.b/Q4240806.d
Level 4: //diana/target/6890q.i/Q42408Pest-1.b/Q4240807.d
Level 5: //diana/target/6890q.i/Q42408Pest-1.b/Q4240808.d

Compound	Level 1	Level 2	Level 3	Level 4	Level 5	Ave CF	%RSD
44 alpha-BHC	782777500	928352500	983069400	1026958000	1082063000	960644100	11.9
45 gamma-BHC (Lindane)	801227000	941018200	971280200	982648000	1020597000	943354100	8.9
46 beta-BHC	407098000	427217000	394340500	389338000	402311500	404061000	3.6
47 delta-BHC	764418500	906937000	951351400	979290700	1010160000	922431600	10.4
48 Heptachlor	932722000	1015712000	1016345000	1016603000	1042785000	1004833000	4.2
49 Aldrin	812935500	902724500	951185200	954943600	985307300	921419200	7.3
50 Heptachlor epoxide	844301500	903411200	892193400	905043500	921746700	893339300	3.3
51 gamma-Chlordane	833419500	878097000	865945600	909641100	921815000	881783600	4.0
52 alpha-Chlordane	815423500	881756000	846493300	877865600	894436400	863195000	3.7
53 Endosulfan I	781976000	829423200	826048800	833614900	856073900	825427400	3.3

Amount = Response divided by CF

CF - Calibration Factor (response divided by concentration).
RSD - Relative Standard Deviation.

SUM - 71

Pace Analytical Services, Inc.
Initial Calibration Linearity Summary

Compound	Level 1	Level 2	Level 3	Level 4	Level 5	Ave CF	%RSD
54 4,4'-DDE	782751200	876239100	913592500	910345900	905843800	877754500	6.3
55 Dieldrin	820911000	939018200	954903000	955632200	946004200	923293700	6.2
56 Endrin	751839200	833956900	872845800	865316800	836689600	832129600	5.8
57 4,4'-DDD	616508500	698870400	739422600	738943000	727571900	704263300	7.3
58 Endosulfan II	743566500	794132400	785675000	791847400	772262400	777496700	2.7
59 Endrin aldehyde	639626800	679810100	654264400	643608200	646702500	652802400	2.5
60 4,4'-DDT	864270500	904607400	894678200	897962400	863428800	884989400	2.2
61 Endosulfan sulfate	740671000	788960100	763089800	747693600	736778200	755438500	2.8
62 Methoxychlor	434089000	463393200	432739200	404997300	367042000	420452100	8.6
63 Endrin Ketone	832590200	918864100	905498900	886246200	839565900	876553900	4.4
66 Isodrin	774325500	868177800	867934200	882131300	904449400	859403600	5.8
1 Tetrachloro-m-xylene	626452400	693822600	654911200	628922500	658818900	652585500	4.2
11 Decachlorobiphenyl	983194400	976175000	858862000	809262500	777066400	880912000	10.8

Amount = Response divided by CF

CF - Calibration Factor (response divided by concentration).
RSD - Relative Standard Deviation.

SUM - 72

Pace Analytical Services, Inc.
Initial Calibration Retention Time Summary

Start Cal Date: 24-APR-2008 12:16
End Cal Date : 24-APR-2008 14:28
Quant Method : ESTD
Cal Curve Type: Average CF
Integrator : Falcon
Method File : \\diana\target\6890q.i\Q42408Pest-1.b\Q42408Pest-1.M
Method : Method 8081
Sublist : INDC+.sub
Column : RTX-CLP
Column Size : 30m L - 0.32mm ID

Calibration Files:
Level 1: //diana/target/6890q.i/Q42408Pest-1.b/Q4240804.d
Level 2: //diana/target/6890q.i/Q42408Pest-1.b/Q4240805.d
Level 3: //diana/target/6890q.i/Q42408Pest-1.b/Q4240806.d
Level 4: //diana/target/6890q.i/Q42408Pest-1.b/Q4240807.d
Level 5: //diana/target/6890q.i/Q42408Pest-1.b/Q4240808.d

Compound	Level 1	Level 2	Level 3	Level 4	Level 5	Ave RT
44 alpha-BHC	8.47	8.46	8.46	8.46	8.46	~~6.044~~
45 gamma-BHC (Lindane)	9.07	9.06	9.06	9.06	9.06	6.473
46 beta-BHC	9.24	9.23	9.23	9.23	9.23	6.594
47 delta-BHC	9.55	9.54	9.54	9.55	9.55	6.819
48 Heptachlor	9.91	9.90	9.90	9.91	9.91	7.076
49 Aldrin	10.42	10.41	10.41	10.41	10.41	7.437
50 Heptachlor epoxide	11.41	11.40	11.40	11.41	11.40	8.146
51 gamma-Chlordane	11.61	11.60	11.60	11.60	11.60	8.287
52 alpha-Chlordane	11.82	11.81	11.80	11.81	11.81	8.436
53 Endosulfan I	12.03	12.02	12.02	12.02	12.02	~~8.587~~

6 of 15 sheets

Retention times are expressed as minutes.

Pace Analytical Services, Inc.
Initial Calibration Retention Time Summary

Start Cal Date: 24-APR-2008 12:16
End Cal Date : 24-APR-2008 14:28
Quant Method : ESTD
Cal Curve Type: Average CF
Integrator : Falcon
Method File : \\diana\target\6890q.i\Q42408Pest-1.b\Q42408Pest-1.M
Method : Method 8081
Sublist : INDC+.sub
Column : RTX-CLP
Column Size : 30m L - 0.32mm ID

Compound	Level 1	Level 2	Level 3	Level 4	Level 5	Ave RT
54 4,4'-DDE	11.93	11.93	11.92	11.93	11.92	~~8.519~~
55 Dieldrin	12.40	12.39	12.39	12.39	12.39	8.851
56 Endrin	12.75	12.74	12.74	12.74	12.74	9.101
57 4,4'-DDD	12.84	12.83	12.83	12.83	12.83	9.166
58 Endosulfan II	13.09	13.08	13.08	13.08	13.08	9.344
59 Endrin aldehyde	13.71	13.71	13.71	13.71	13.70	9.791
60 4,4'-DDT	13.25	13.24	13.24	13.24	13.24	9.459
61 Endosulfan sulfate	14.36	14.35	14.35	14.35	14.35	10.251
62 Methoxychlor	13.95	13.94	13.94	13.94	13.94	9.959
63 Endrin Ketone	14.77	14.76	14.76	14.76	14.76	10.544
66 Isodrin	10.97	10.96	10.96	10.96	10.96	7.830
1 Tetrachloro-m-xylene	7.32	7.31	7.31	7.31	7.31	5.223
11 Decachlorobiphenyl	16.19	16.18	16.18	16.18	16.18	~~11.558~~

5/16/08

Retention times are expressed as minutes.

SUM - 74

Pace Analytical Services, Inc.
Initial Calibration Amounts Summary

Start Cal Date: 24-APR-2008 12:16
End Cal Date : 24-APR-2008 14:28
Quant Method : ESTD
Cal Curve Type: Average CF
Integrator : Falcon
Method File : \\diana\target\6890q.i\Q42408Pest-1.b\Q42408Pest-1.M
Method : Method 8081
Sublist : INDC+.sub
Column : RTX-CLP
Column Size : 30m L - 0.32mm ID

Calibration Files:
Level 1: //diana/target/6890q.i/Q42408Pest-1.b/Q4240804.d
Level 2: //diana/target/6890q.i/Q42408Pest-1.b/Q4240805.d
Level 3: //diana/target/6890q.i/Q42408Pest-1.b/Q4240806.d
Level 4: //diana/target/6890q.i/Q42408Pest-1.b/Q4240807.d
Level 5: //diana/target/6890q.i/Q42408Pest-1.b/Q4240808.d

Compound	Level 1	Level 2	Level 3	Level 4	Level 5
44 alpha-BHC	0.00200	0.00400	0.01000	0.02000	0.04000
45 gamma-BHC (Lindane)	0.00200	0.00400	0.01000	0.02000	0.04000
46 beta-BHC	0.00200	0.00400	0.01000	0.02000	0.04000
47 delta-BHC	0.00200	0.00400	0.01000	0.02000	0.04000
48 Heptachlor	0.00200	0.00400	0.01000	0.02000	0.04000
49 Aldrin	0.00200	0.00400	0.01000	0.02000	0.04000
50 Heptachlor epoxide	0.00200	0.00400	0.01000	0.02000	0.04000
51 gamma-Chlordane	0.00200	0.00400	0.01000	0.02000	0.04000
52 alpha-Chlordane	0.00200	0.00400	0.01000	0.02000	0.04000
53 Endosulfan I	0.00200	0.00400	0.01000	0.02000	0.04000

Standard concentrations are expressed as ng.

Pace Analytical Services, Inc.
Initial Calibration Amounts Summary

Start Cal Date: 24-APR-2008 12:16
End Cal Date : 24-APR-2008 14:28
Quant Method : ESTD
Cal Curve Type: Average CF
Integrator : Falcon
Method File : \\diana\target\6890q.i\Q42408Pest-1.b\Q42408Pest-1.M
Method : Method 8081
Sublist : INDC+.sub
Column : RTX-CLP
Column Size : 30m L - 0.32mm ID

Compound	Level 1	Level 2	Level 3	Level 4	Level 5
54 4,4'-DDE	0.00400	0.00800	0.02000	0.04000	0.08000
55 Dieldrin	0.00400	0.00800	0.02000	0.04000	0.08000
56 Endrin	0.00400	0.00800	0.02000	0.04000	0.08000
57 4,4'-DDD	0.00400	0.00800	0.02000	0.04000	0.08000
58 Endosulfan II	0.00400	0.00800	0.02000	0.04000	0.08000
59 Endrin aldehyde	0.00400	0.00800	0.02000	0.04000	0.08000
60 4,4'-DDT	0.00400	0.00800	0.02000	0.04000	0.08000
61 Endosulfan sulfate	0.00400	0.00800	0.02000	0.04000	0.08000
62 Methoxychlor	0.02000	0.04000	0.10000	0.20000	0.40000
63 Endrin Ketone	0.00400	0.00800	0.02000	0.04000	0.08000
66 Isodrin	0.00200	0.00400	0.01000	0.02000	0.04000
1 Tetrachloro-m-xylene	0.00250	0.00500	0.01250	0.02500	0.05000
11 Decachlorobiphenyl	0.00250	0.00500	0.01250	0.02500	0.05000

Standard concentrations are expressed as ng.

Pace Analytical Services, Inc.
Initial Calibration Response Summary

Start Cal Date: 24-APR-2008 12:16
End Cal Date : 24-APR-2008 14:28
Quant Method : ESTD
Cal Curve Type: Average CF
Integrator : Falcon
Method File : \\diana\target\6890q.i\Q42408Pest-1.b\Q42408Pest-1.M
Method : Method 8081
Sublist : INDC+.sub
Column : RTX-CLP
Column Size : 30m L - 0.32mm ID

Calibration Files:
Level 1: //diana/target/6890q.i/Q42408Pest-1.b/Q4240804.d
Level 2: //diana/target/6890q.i/Q42408Pest-1.b/Q4240805.d
Level 3: //diana/target/6890q.i/Q42408Pest-1.b/Q4240806.d
Level 4: //diana/target/6890q.i/Q42408Pest-1.b/Q4240807.d
Level 5: //diana/target/6890q.i/Q42408Pest-1.b/Q4240808.d

Compound	Level 1	Level 2	Level 3	Level 4	Level 5
44 alpha-BHC	1565555.0	3713410.0	9830694.0	20539154	43282539
45 gamma-BHC (Lindane)	1602454.0	3764073.0	9712802.0	19652961	40823887
46 beta-BHC	814196.00	1708868.0	3943405.0	7786759.0	16092460
47 delta-BHC	1528837.0	3627748.0	9513514.0	19585814	40406411
48 Heptachlor	1865444.0	4062846.0	10163452	20332067	41711384
49 Aldrin	1625871.0	3610898.0	9511852.0	19098871	39412291
50 Heptachlor epoxide	1688603.0	3613645.0	8921934.0	18100870	36869868
51 gamma-Chlordane	1666839.0	3512388.0	8659456.0	18192822	36872600
52 alpha-Chlordane	1630847.0	3527024.0	8464933.0	17557312	35777457
53 Endosulfan I	1563952.0	3317693.0	8260488.0	16672298	34242957

Response is in Height units.

Pace Analytical Services, Inc.
Initial Calibration Response Summary

Start Cal Date: 24-APR-2008 12:16
End Cal Date : 24-APR-2008 14:28
Quant Method : ESTD
Cal Curve Type: Average CF
Integrator : Falcon
Method File : \\diana\target\6890q.i\Q42408Pest-1.b\Q42408Pest-1.M
Method : Method 8081
Sublist : INDC+.sub
Column : RTX-CLP
Column Size : 30m L - 0.32mm ID

Compound	Level 1	Level 2	Level 3	Level 4	Level 5
54 4,4'-DDE	3131005.0	7009913.0	18271850	36413836	72467502
55 Dieldrin	3283644.0	7512146.0	19098059	38225289	75680340
56 Endrin	3007357.0	6671655.0	17456915	34612672	66935164
57 4,4'-DDD	2466034.0	5590963.0	14788453	29557718	58205749
58 Endosulfan II	2974266.0	6353059.0	15713501	31673896	61780991
59 Endrin aldehyde	2558507.0	5438481.0	13085288	25744328	51736201
60 4,4'-DDT	3457082.0	7236859.0	17893563	35918495	69074300
61 Endosulfan sulfate	2962684.0	6311681.0	15261795	29907744	58942252
62 Methoxychlor	8681779.0	18535727	43273924	80999465	146816800
63 Endrin Ketone	3330361.0	7350913.0	18109978	35449849	67165595
66 Isodrin	1548651.0	3472711.0	8679342.0	17642626	36177976
1 Tetrachloro-m-xylene	1566131.0	3469113.0	8186390.0	15723062	32940946
11 Decachlorobiphenyl -	2457986.0	4880875.0	10735775	20231562	38853318

Response is in Height units.

SUM - 78

Pace Analytical Services, Inc.
Initial Calibration Linearity Summary

Start Cal Date: 24-APR-2008 15:34
End Cal Date : 24-APR-2008 15:34
Quant Method : ESTD
Cal Curve Type: Average CF
Integrator : Falcon
Method File : \\diana\target\6890q.i\Q42408Pest-1.b\Q42408Pest-1.M
Method : Method 8081
Sublist : TOX.sub
Column : RTX-CLP
Column Size : 30m L - 0.32mm ID

Calibration Files:
Level 1: //diana/target/6890q.i/Q42408Pest-1.b/Q4240810.d

Compound	Level 1	Ave CF	%RSD
Toxaphene-1	26854320	26854320	0.0
Toxaphene-2	33459940	33459940	0.0
Toxaphene-3	38403820	38403820	0.0
Toxaphene-4	30244840	30244840	0.0
Toxaphene-5	20902160	20902160	0.0

Amount = Response divided by CF

CF - Calibration Factor (response divided by concentration).
RSD - Relative Standard Deviation.

Pace Analytical Services, Inc.
Initial Calibration Retention Time Summary

Start Cal Date: 24-APR-2008 15:34
End Cal Date : 24-APR-2008 15:34
Quant Method : ESTD
Cal Curve Type: Average CF
Integrator : Falcon
Method File : \\diana\target\6890q.i\Q42408Pest-1.b\Q42408Pest-1.M
Method : Method 8081
Sublist : TOX.sub
Column : RTX-CLP
Column Size : 30m L - 0.32mm ID

Calibration Files:
Level 1: //diana/target/6890q.i/Q42408Pest-1.b/Q4240810.d

Compound	Level 1	Ave RT
Toxaphene-1	13.25	13.250
Toxaphene-2	13.57	13.570
Toxaphene-3	14.20	14.200
Toxaphene-4	14.72	14.720
Toxaphene-5	14.94	14.940

Retention times are expressed as minutes.

Pace Analytical Services, Inc.
Initial Calibration Amounts Summary

Start Cal Date: 24-APR-2008 15:34
End Cal Date : 24-APR-2008 15:34
Quant Method : ESTD
Cal Curve Type: Average CF
Integrator : Falcon
Method File : \\diana\target\6890q.i\Q42408Pest-1.b\Q42408Pest-1.M
Method : Method 8081
Sublist : TOX.sub
Column : RTX-CLP
Column Size : 30m L - 0.32mm ID

Calibration Files:
Level 1: //diana/target/6890q.i/Q42408Pest-1.b/Q4240810.d

Compound	Level 1
Toxaphene-1	0.05000
Toxaphene-2	0.05000
Toxaphene-3	0.05000
Toxaphene-4	0.05000
Toxaphene-5	0.05000

Standard concentrations are expressed as ng.

Pace Analytical Services, Inc.
Initial Calibration Response Summary

Start Cal Date: 24-APR-2008 15:34
End Cal Date : 24-APR-2008 15:34
Quant Method : ESTD
Cal Curve Type: Average CF
Integrator : Falcon
Method File : \\diana\target\6890q.i\Q42408Pest-1.b\Q42408Pest-1.M
Method : Method 8081
Sublist : TOX.sub
Column : RTX-CLP
Column Size : 30m L - 0.32mm ID

Calibration Files:
Level 1: //diana/target/6890q.i/Q42408Pest-1.b/Q4240810.d

Compound	Level 1
Toxaphene-1	1342716.0
Toxaphene-2	1672997.0
Toxaphene-3	1920191.0
Toxaphene-4	1512242.0
Toxaphene-5	1045108.0

Response is in Height units.

Pace Analytical Services, Inc.
Continuing Calibration Verification Summary

Data File	: //diana/target/6890q.i/Q42408Pest-1.b/Q4240811.d		
Injection Date	: 24-APR-2008 16:07		
Sample Info	: INDC+ 2ND (L3)		
Misc. Info	: Method 8081		
Laboratory ID	: INDC+ 2ND (L3)	Client ID	: PX-4-43-3/4
Instrument ID	: 6890Q.i		
Method	: Q42408Pest-1.m	Sublist	: INDC+
Quantitation	: ESTD	Integrator	: Falcon
Dilution Factor	: 1:00	Sample Type	: CCALIB_5
Column	: RTX-CLP	Column Size	: 30.00m L- 0.32mm ID

Compound	RT	RT Window	Expected Amount	Continuing Amount	%D	Flag
Tetrachloro-m-xylene	7.31	7.26 - 7.36	0.01250	0.01136	-9.1	
alpha-BHC	8.46	8.41 - 8.51	0.01000	0.009996	-0.0	
gamma-BHC (Lindane)	9.06	9.01 - 9.11	0.01000	0.01025	2.5	
beta-BHC	9.23	9.18 - 9.28	0.01000	0.01041	4.1	
delta-BHC	9.54	9.50 - 9.60	0.01000	0.009205	-7.9	
Heptachlor	9.90	9.86 - 9.96	0.01000	0.01043	4.3	
Aldrin	10.41	10.36 - 10.46	0.01000	0.01039	3.9	
Isodrin	10.96	10.89 - 11.03	0.01000	0.009176	-8.2	
Heptachlor epoxide	11.40	11.33 - 11.47	0.01000	0.01065	6.5	
gamma-Chlordane	11.60	11.53 - 11.67	0.01000	0.01035	3.5	
alpha-Chlordane	11.80	11.74 - 11.88	0.01000	0.01064	6.4	
4,4'-DDE	11.92	11.85 - 11.99	0.02000	0.02289	14.4	
Endosulfan I	12.02	11.95 - 12.09	0.01000	0.01048	4.9	
Dieldrin	12.39	12.32 - 12.46	0.02000	0.02141	7.0	
Endrin	12.74	12.67 - 12.81	0.02000	0.02218	10.9	
4,4'-DDD	12.83	12.76 - 12.90	0.02000	0.02157	7.8	
Endosulfan II	13.08	13.01 - 13.15	0.02000	0.02124	6.2	
4,4'-DDT	13.24	13.17 - 13.31	0.02000	0.01975	-1.3	
Endrin aldehyde	13.70	13.63 - 13.77	0.02000	0.02114	5.7	

%Drift (%D) = Continuing Amount - Expected Amount divided by Expected Amount times 100

Pace Analytical Services, Inc.
Continuing Calibration Verification Summary

Data File : Q4240811.d
Injection Date : 24-APR-2008 16:07

Compound	RT	RT Window	Expected Amount	Continuing Amount	%D	Flag
Methoxychlor	13.94	13.87 - 14.01	0.1000	0.1053	5.3	
Endosulfan sulfate	14.35	14.28 - 14.42	0.02000	0.01828	-8.6	
Endrin Ketone	14.76	14.69 - 14.83	0.02000	0.02091	4.6	
Decachlorobiphenyl	16.18	16.08 - 16.28	0.01250	0.01059	-15.3	X
Average Percent Difference					6.5	

%Drift (%D) = Continuing Amount - Expected Amount divided by Expected Amount times 100

Pace Analytical Services, Inc.
Initial Calibration Linearity Summary

Start Cal Date: 24-APR-2008 12:16
End Cal Date : 24-APR-2008 14:28
Quant Method : ESTD
Cal Curve Type: Average CF
Integrator : Falcon
Method File : \\diana\target\6890q.i\Q42408Pest-2.b\Q42408Pest-2.M
Method : Method 8081
Sublist : INDC+.sub
Column : RTX-CLP2
Column Size : 30m L - 0.32mm ID

Calibration Files:
Level 1: //diana/target/6890q.i/Q42408Pest-2.b/Q4240804.d
Level 2: //diana/target/6890q.i/Q42408Pest-2.b/Q4240805.d
Level 3: //diana/target/6890q.i/Q42408Pest-2.b/Q4240806.d
Level 4: //diana/target/6890q.i/Q42408Pest-2.b/Q4240807.d
Level 5: //diana/target/6890q.i/Q42408Pest-2.b/Q4240808.d

Compound	Level 1	Level 2	Level 3	Level 4	Level 5	Ave CF	%RSD
44 alpha-BHC	751547000	838034200	858671900	866816400	907065400	844427000	6.8
45 gamma-BHC (Lindane)	757243000	837688200	824992800	816372400	854645400	818188400	4.5
46 beta-BHC	376012500	385769800	342455800	329311800	331331600	352976300	7.4
47 Heptachlor	755338500	785825500	756769300	757151900	792884200	769593900	2.4
48 delta-BHC	763635500	831539500	836435900	855392200	871312300	831663100	5.0
49 Aldrin	706998500	748220000	727181200	745495200	763616600	738302300	2.9
50 Heptachlor epoxide	702813000	725350800	701101300	686385300	698918000	702913700	2.0
51 gamma-Chlordane	683618500	695086500	667267300	683218800	691038200	684045900	1.6
52 alpha-Chlordane	683056000	690399200	654149200	633123900	654599200	663065500	3.5
53 Endosulfan I	650226500	666424000	625756800	622640500	635135400	640036600	2.8

Amount = Response divided by CF

CF - Calibration Factor (response divided by concentration).
RSD - Relative Standard Deviation.

Pace Analytical Services, Inc.
Initial Calibration Linearity Summary

Compound	Level 1	Level 2	Level 3	Level 4	Level 5	Ave CF	%RSD
54 Dieldrin	657405500	716298500	712666000	715147400	715210300	703345500	3.7
55 Endrin	568307200	606474000	601481900	606577000	610377800	598643600	2.9
56 4,4'-DDD	512525500	561896400	561412600	574717200	560522200	554214800	4.3
57 Endosulfan II	598708800	627865900	592204800	588289200	585473700	598508500	2.9
58 4,4'-DDT	663181500	655933500	637679800	639213200	628846200	644970800	2.2
59 Endrin aldehyde	506014500	517540100	496275600	489919600	491352100	500220400	2.3
60 Endosulfan sulfate	575690200	588694200	565171200	556156700	560808000	569304000	2.3
61 Methoxychlor	297551700	308409800	297627900	288397600	266244600	291646300	5.4
62 Endrin ketone	690568200	721062500	688601400	681853100	665646000	689546200	2.9
64 4,4'-DDE	623506200	678161600	655956800	684780800	676894000	663859900	3.8
66 Isodrin	683982000	712012200	680930500	673982800	687274600	687636400	2.1
1 Tetrachloro-m-xylene	557361200	590307000	539522100	517738600	546141000	550214000	4.8
11 Decachlorobiphenyl	610126000	576038800	508663000	484969800	460741800	528107800	11.9

Amount = Response divided by CF

CF - Calibration Factor (response divided by concentration).

RSD - Relative Standard Deviation.

SUM - 84

Pace Analytical Services, Inc.
Initial Calibration Retention Time Summary

Start Cal Date: 24-APR-2008 12:16
End Cal Date : 24-APR-2008 14:28
Quant Method : ESTD
Cal Curve Type: Average CF
Integrator : Falcon
Method File : \\diana\target\6890q.i\Q42408Pest-2.b\Q42408Pest-2.M
Method : Method 8081
Sublist : INDC+.sub
Column : RTX-CLP2
Column Size : 30m L - 0.32mm ID

Calibration Files:
Level 1: //diana/target/6890q.i/Q42408Pest-2.b/Q4240804.d
Level 2: //diana/target/6890q.i/Q42408Pest-2.b/Q4240805.d
Level 3: //diana/target/6890q.i/Q42408Pest-2.b/Q4240806.d
Level 4: //diana/target/6890q.i/Q42408Pest-2.b/Q4240807.d
Level 5: //diana/target/6890q.i/Q42408Pest-2.b/Q4240808.d

Compound	Level 1	Level 2	Level 3	Level 4	Level 5	Ave RT
44 alpha-BHC	8.40	8.40	8.41	8.41	8.41	~~6.004~~
45 gamma-BHC (Lindane)	9.06	9.06	9.06	9.06	9.06	6.471
46 beta-BHC	9.22	9.22	9.22	9.22	9.22	6.586
47 Heptachlor	9.82	9.82	9.82	9.82	9.82	7.014
48 delta-BHC	9.72	9.72	9.72	9.72	9.72	6.943
49 Aldrin	10.35	10.35	10.35	10.35	10.35	7.393
50 Heptachlor epoxide	11.27	11.27	11.27	11.27	11.27	8.050
51 gamma-Chlordane	11.57	11.57	11.57	11.57	11.57	8.264
52 alpha-Chlordane	11.79	11.79	11.79	11.79	11.79	8.421
53 Endosulfan I	11.87	11.87	11.87	11.87	11.87	~~8.479~~

GR Stanley

Retention times are expressed as minutes.

Pace Analytical Services, Inc.
Initial Calibration Retention Time Summary

Start Cal Date: 24-APR-2008 12:16
End Cal Date : 24-APR-2008 14:28
Quant Method : ESTD
Cal Curve Type: Average CF
Integrator : Falcon
Method File : \\diana\target\6890q.i\Q42408Pest-2.b\Q42408Pest-2.M
Method : Method 8081
Sublist : INDC+.sub
Column : RTX-CLP2
Column Size : 30m L - 0.32mm ID

Compound	Level 1	Level 2	Level 3	Level 4	Level 5	Ave RT
54 Dieldrin	12.29	12.29	12.29	12.29	12.29	~~8.779~~
55 Endrin	12.74	12.74	12.74	12.74	12.74	9.100
56 4,4'-DDD	12.92	12.92	12.92	12.92	12.92	9.229
57 Endosulfan II	13.06	13.05	13.05	13.05	13.05	9.323
58 4,4'-DDT	13.38	13.38	13.38	13.38	13.38	9.567
59 Endrin aldehyde	13.55	13.55	13.55	13.55	13.55	9.679
60 Endosulfan sulfate	13.96	13.95	13.95	13.95	13.95	9.966
61 Methoxychlor	14.37	14.37	14.37	14.37	14.37	10.264
62 Endrin ketone	14.73	14.73	14.73	14.73	14.73	10.521
64 4,4'-DDE	12.06	12.06	12.06	12.06	12.06	8.614
66 Isodrin	10.98	10.98	10.98	10.98	10.98	7.843
1 Tetrachloro-m-xylene	7.16	7.17	7.17	7.17	7.17	5.120
11 Decachlorobiphenyl	16.55	16.54	16.54	16.54	16.54	~~11.816~~

GR Signator

Retention times are expressed as minutes.

Pace Analytical Services, Inc.
Initial Calibration Amounts Summary

Start Cal Date: 24-APR-2008 12:16
End Cal Date : 24-APR-2008 14:28
Quant Method : ESTD
Cal Curve Type: Average CF
Integrator : Falcon
Method File : \\diana\target\6890q.i\Q42408Pest-2.b\Q42408Pest-2.M
Method : Method 8081
Sublist : INDC+.sub
Column : RTX-CLP2
Column Size : 30m L - 0.32mm ID

Calibration Files:
Level 1: //diana/target/6890q.i/Q42408Pest-2.b/Q4240804.d
Level 2: //diana/target/6890q.i/Q42408Pest-2.b/Q4240805.d
Level 3: //diana/target/6890q.i/Q42408Pest-2.b/Q4240806.d
Level 4: //diana/target/6890q.i/Q42408Pest-2.b/Q4240807.d
Level 5: //diana/target/6890q.i/Q42408Pest-2.b/Q4240808.d

Compound	Level 1	Level 2	Level 3	Level 4	Level 5
44 alpha-BHC	0.00200	0.00400	0.01000	0.02000	0.04000
45 gamma-BHC (Lindane)	0.00200	0.00400	0.01000	0.02000	0.04000
46 beta-BHC	0.00200	0.00400	0.01000	0.02000	0.04000
47 Heptachlor	0.00200	0.00400	0.01000	0.02000	0.04000
48 delta-BHC	0.00200	0.00400	0.01000	0.02000	0.04000
49 Aldrin	0.00200	0.00400	0.01000	0.02000	0.04000
50 Heptachlor epoxide	0.00200	0.00400	0.01000	0.02000	0.04000
51 gamma-Chlordane	0.00200	0.00400	0.01000	0.02000	0.04000
52 alpha-Chlordane	0.00200	0.00400	0.01000	0.02000	0.04000
53 Endosulfan I	0.00200	0.00400	0.01000	0.02000	0.04000

Standard concentrations are expressed as ng.

Pace Analytical Services, Inc.
Initial Calibration Amounts Summary

Start Cal Date: 24-APR-2008 12:16
End Cal Date : 24-APR-2008 14:28
Quant Method : ESTD
Cal Curve Type: Average CF
Integrator : Falcon
Method File : \\diana\target\6890q.i\Q42408Pest-2.b\Q42408Pest-2.M
Method : Method 8081
Sublist : INDC+.sub
Column : RTX-CLP2
Column Size : 30m L - 0.32mm ID

Compound	Level 1	Level 2	Level 3	Level 4	Level 5
54 Dieldrin	0.00400	0.00800	0.02000	0.04000	0.08000
55 Endrin	0.00400	0.00800	0.02000	0.04000	0.08000
56 4,4'-DDD	0.00400	0.00800	0.02000	0.04000	0.08000
57 Endosulfan II	0.00400	0.00800	0.02000	0.04000	0.08000
58 4,4'-DDT	0.00400	0.00800	0.02000	0.04000	0.08000
59 Endrin aldehyde	0.00400	0.00800	0.02000	0.04000	0.08000
60 Endosulfan sulfate	0.00400	0.00800	0.02000	0.04000	0.08000
61 Methoxychlor	0.02000	0.04000	0.10000	0.20000	0.40000
62 Endrin ketone	0.00400	0.00800	0.02000	0.04000	0.08000
64 4,4'-DDE	0.00400	0.00800	0.02000	0.04000	0.08000
66 Isodrin	0.00200	0.00400	0.01000	0.02000	0.04000
1 Tetrachloro-m-xylene	0.00250	0.00500	0.01250	0.02500	0.05000
11 Decachlorobiphenyl	0.00250	0.00500	0.01250	0.02500	0.05000

Standard concentrations are expressed as ng.

Pace Analytical Services, Inc.
Initial Calibration Response Summary

Start Cal Date: 24-APR-2008 12:16
End Cal Date : 24-APR-2008 14:28
Quant Method : ESTD
Cal Curve Type: Average CF
Integrator : Falcon
Method File : \\diana\target\6890q.i\Q42408Pest-2.b\Q42408Pest-2.M
Method : Method 8081
Sublist : INDC+.sub
Column : RTX-CLP2
Column Size : 30m L - 0.32mm ID

Calibration Files:
Level 1: //diana/target/6890q.i/Q42408Pest-2.b/Q4240804.d
Level 2: //diana/target/6890q.i/Q42408Pest-2.b/Q4240805.d
Level 3: //diana/target/6890q.i/Q42408Pest-2.b/Q4240806.d
Level 4: //diana/target/6890q.i/Q42408Pest-2.b/Q4240807.d
Level 5: //diana/target/6890q.i/Q42408Pest-2.b/Q4240808.d

Compound	Level 1	Level 2	Level 3	Level 4	Level 5
44 alpha-BHC	1503094.0	3352137.0	8586719.0	17336328	36282617
45 gamma-BHC (Lindane)	1514486.0	3350753.0	8249928.0	16327448	34185816
46 beta-BHC	752025.00	1543079.0	3424558.0	6586237.0	13253264
47 Heptachlor	1510677.0	3143302.0	7567693.0	15143038	31715370
48 delta-BHC	1527271.0	3326158.0	8364359.0	17107845	34852491
49 Aldrin	1413997.0	2992880.0	7271812.0	14909905	30544663
50 Heptachlor epoxide	1405626.0	2901403.0	7011013.0	13727706	27956718
51 gamma-Chlordane	1367237.0	2780346.0	6672673.0	13664376	27641528
52 alpha-Chlordane	1366112.0	2761597.0	6541492.0	12662478	26183968
53 Endosulfan I	1300453.0	2665696.0	6257568.0	12452810	25405416

Response is in Height units.

Pace Analytical Services, Inc.
Initial Calibration Response Summary

Start Cal Date: 24-APR-2008 12:16
End Cal Date : 24-APR-2008 14:28
Quant Method : ESTD
Cal Curve Type: Average CF
Integrator : Falcon
Method File : \\diana\target\6890q.i\Q42408Pest-2.b\Q42408Pest-2.M
Method : Method 8081
Sublist : INDC+.sub
Column : RTX-CLP2
Column Size : 30m L - 0.32mm ID

Compound	Level 1	Level 2	Level 3	Level 4	Level 5
54 Dieldrin	2629622.0	5730388.0	14253319	28605896	57216827
55 Endrin	2273229.0	4851792.0	12029638	24263082	48830220
56 4,4'-DDD	2050102.0	4495171.0	11228252	22988687	44841773
57 Endosulfan II	2394835.0	5022927.0	11844095	23531569	46837896
58 4,4'-DDT	2652726.0	5247468.0	12753597	25568528	50307692
59 Endrin aldehyde	2024058.0	4140321.0	9925511.0	19596785	39308171
60 Endosulfan sulfate	2302761.0	4709554.0	11303423	22246267	44864637
61 Methoxychlor	5951034.0	12336392	29762787	57679529	106497850
62 Endrin ketone	2762273.0	5768500.0	13772028	27274125	53251679
64 4,4'-DDE	2494025.0	5425293.0	13119135	27391233	54151523
66 Isodrin	1367964.0	2848049.0	6809305.0	13479655	27490983
1 Tetrachloro-m-xylene	1393403.0	2951535.0	6744026.0	12943464	27307049
11 Decachlorobiphenyl	1525315.0	2880194.0	6358287.0	12124244	23037088

Response is in Height units.

SUM - 90

Pace Analytical Services, Inc.
Initial Calibration Linearity Summary

Start Cal Date: 24-APR-2008 15:34
End Cal Date : 24-APR-2008 15:34
Quant Method : ESTD
Cal Curve Type: Average CF
Integrator : Falcon
Method File : \\diana\target\6890q.i\Q42408Pest-2.b\Q42408Pest-2.M
Method : Method 8081
Sublist : TOX.sub
Column : RTX-CLP2
Column Size : 30m L - 0.32mm ID

Calibration Files:
Level 1: //diana/target/6890q.i/Q42408Pest-2.b/Q4240810.d

Compound	Level 1	Avg CF	%RSD
Toxaphene-1	34012460	34012460	0.0
Toxaphene-2	25979700	25979700	0.0
Toxaphene-3	28500940	28500940	0.0
Toxaphene-4	21834300	21834300	0.0
Toxaphene-5	2403000	2403000	0.0

Amount = Response divided by CF

CF - Calibration Factor (response divided by concentration).
RSD - Relative Standard Deviation.

Pace Analytical Services, Inc.
Initial Calibration Retention Time Summary

Start Cal Date: 24-APR-2008 15:34
End Cal Date : 24-APR-2008 15:34
Quant Method : ESTD
Cal Curve Type: Average CF
Integrator : Falcon
Method File : \\diana\target\6890q.i\Q42408Pest-2.b\Q42408Pest-2.M
Method : Method 8081
Sublist : TOX.sub
Column : RTX-CLP2
Column Size : 30m L - 0.32mm ID

Calibration Files:
Level 1: //diana/target/6890q.i/Q42408Pest-2.b/Q4240810.d

Compound	Level 1	Ave RT
Toxaphene-1	13.18	13.180
Toxaphene-2	13.56	13.560
Toxaphene-3	14.39	14.390
Toxaphene-4	14.47	14.470
Toxaphene-5	14.54	14.540

Retention times are expressed as minutes.

Pace Analytical Services, Inc.
Initial Calibration Amounts Summary

Start Cal Date: 24-APR-2008 15:34
End Cal Date : 24-APR-2008 15:34
Quant Method : ESTD
Cal Curve Type: Average CF
Integrator : Falcon
Method File : \\diana\target\6890q.i\Q42408Pest-2.b\Q42408Pest-2.M
Method : Method 8081
Sublist : TOX.sub
Column : RTX-CLP2
Column Size : 30m L - 0.32mm ID

Calibration Files:
Level 1: //diana/target/6890q.i/Q42408Pest-2.b/Q4240810.d

Compound	Level 1
Toxaphene-1	0.05000
Toxaphene-2	0.05000
Toxaphene-3	0.05000
Toxaphene-4	0.05000
Toxaphene-5	0.05000

Standard concentrations are expressed as ng.

Pace Analytical Services, Inc.
Initial Calibration Response Summary

Start Cal Date: 24-APR-2008 15:34
End Cal Date : 24-APR-2008 15:34
Quant Method : ESTD
Cal Curve Type: Average CF
Integrator : Falcon
Method File : \\diana\target\6890q.i\Q42408Pest-2.b\Q42408Pest-2.M
Method : Method 8081
Sublist : TOX.sub
Column : RTX-CLP2
Column Size : 30m L - 0.32mm ID

Calibration Files:
Level 1: //diana/target/6890q.i/Q42408Pest-2.b/Q4240810.d

Compound	Level 1
Toxaphene-1	1700623.0
Toxaphene-2	1298985.0
Toxaphene-3	1425047.0
Toxaphene-4	1091715.0
Toxaphene-5	120150.00

Response is in Height units.

Pace Analytical Services, Inc.
Continuing Calibration Verification Summary

Data File	: //diana/target/6890q.i/Q42408Pest-2.b/Q4240811.d		
Injection Date	: 24-APR-2008 16:07		
Sample Info	: INDC+ 2ND (L3)		
Misc. Info	: Method 8081		
Laboratory ID	: INDC+ 2ND (L3)	Client ID	: PX-4-43-3/4
Instrument ID	: 6890Q.i		
Method	: Q42408Pest-2.M	Sublist	: INDC+
Quantitation	: ESTD	Integrator	: Falcon
Dilution Factor	: 1.00	Sample Type	: CCALIB_5
Column	: RTX-CLP2	Column Size	: 30.00m L- 0.32mm ID

Compound	RT	RT Window	Expected Amount	Continuing Amount	%D	Flag
Tetrachloro-m-xylene	7.16	7.12 - 7.22	0.01250	0.01102	-11.8	
alpha-BHC	8.40	8.36 - 8.46	0.01000	0.009892	-1.1	
gamma-BHC (Lindane)	9.06	9.01 - 9.11	0.01000	0.01017	1.7	
beta-BHC	9.22	9.17 - 9.27	0.01000	0.01013	1.3	
delta-BHC	9.72	9.67 - 9.77	0.01000	0.008915	-10.8	
Heptachlor	9.82	9.77 - 9.87	0.01000	0.01021	2.1	
Aldrin	10.35	10.30 - 10.40	0.01000	0.01030	3.0	
Isodrin	10.98	10.91 - 11.05	0.01000	0.009025	-9.8	
Heptachlor epoxide	11.27	11.20 - 11.34	0.01000	0.01015	1.5	
gamma-Chlordane	11.57	11.50 - 11.64	0.01000	0.01007	0.7	
alpha-Chlordane	11.79	11.72 - 11.86	0.01000	0.01057	5.7	
Endosulfan I	11.87	11.80 - 11.94	0.01000	0.01022	2.2	
4,4'-DDE	12.06	11.99 - 12.13	0.02000	0.02197	9.8	
Dieldrin	12.28	12.22 - 12.36	0.02000	0.02114	5.7	
Endrin	12.74	12.67 - 12.81	0.02000	0.02144	7.2	
4,4'-DDD	12.91	12.85 - 12.99	0.02000	0.02121	6.1	
Endosulfan II	13.05	12.98 - 13.12	0.02000	0.02084	4.2	
4,4'-DDT	13.37	13.31 - 13.45	0.02000	0.01952	-2.4	
Endrin aldehyde	13.55	13.48 - 13.62	0.02000	0.02057	2.9	

%Drift (%D) = Continuing Amount - Expected Amount divided by Expected Amount times 100

Pace Analytical Services, Inc.
Continuing Calibration Verification Summary

Data File : Q4240811.d
Injection Date : 24-APR-2008 16:07

Compound	RT	RT Window	Expected Amount	Continuing Amount	%D	Flag
Endosulfan sulfate	13.95	13.88 - 14.02	0.02000	0.01902	-4.9	
Methoxychlor	14.37	14.30 - 14.44	0.1000	0.1061	6.1	
Endrin ketone	14.73	14.66 - 14.80	0.02000	0.02004	0.2	
Decachlorobiphenyl	16.54	16.44 - 16.64	0.01250	0.01041	-16.7	*
Average Percent Difference					5.1	

%Drift (%D) = Continuing Amount - Expected Amount divided by Expected Amount times 100

Pace Analytical Services, Inc.
BATCH SUMMARY (for databatch - \\diana\target\6890q.i\Q42408Pest-2.b)

	Filename	Lab Sample ID	Client Sample ID	SDG	I.V.	D.F.	Inj. Date & Time
1	Q5060803.d	PEM	PX-8-43-7	PEM	2	1	06-MAY-2008 09:38
2	Q5060804.d	INDC+ CCV (L3)	PX-8-43-9/4	CCV	2	1	06-MAY-2008 10:35
3	Q5060805.d	B050508GPXSLG	B050508GPXSLG		1	1	06-MAY-2008 11:41
4	Q5060806.d	S050508GPXSLG	S050508GPXSLG		1	1	06-MAY-2008 12:14
5	Q5060807.d	TT46702-004RX	09SS 128 0002	TT46702	1	20	06-MAY-2008 12:47
6	Q5060808.d	TT46702-008RX	09SS 132 0002	TT46702	1	1	06-MAY-2008 13:20
7	Q5060810.d	TT46702-012RX	09SS 136 0002	TT46702	1	10	06-MAY-2008 14:26
8	Q5060812.d	TT46702-015RX	09SS 139 0002	TT46702	1	2	06-MAY-2008 15:32
9	Q5060813.d	TT46702-015MS	09SS 139 0002MS	TT46702	1	2	06-MAY-2008 16:05
10	Q5060814.d	TT46702-015MSD	09SS 139 0002MSD	TT46702	1	2	06-MAY-2008 16:38
11	Q5060815.d	INDC+ CCV (L3)	PX-8-43-9/4	CCV	2	1	06-MAY-2008 17:11
12	Q5060818.d	TT46701-009RXRX-	09SS 117 0002	TT46701	1	1	06-MAY-2008 18:50
13	Q5060819.d	TT46701-010RXRX-	09SS 118 0002	TT46701	1	4	06-MAY-2008 19:23
14	Q5060821.d	TT46702-010RX	09SS 134 0002	TT46702	1	20	06-MAY-2008 20:30
15	Q5060822.d	INDC+ CCV (L3)	PX-8-43-9/4	CCV	2	1	06-MAY-2008 21:03

I.V. = Inj.Vol. per Column Batch Summary Ver 2.0 9-5-2002

Pace Analytical Services, Inc.
Continuing Calibration Verification Summary

Data File : //diana/target/6890q.i/Q42408Pest-1.b/Q5060804.d
Injection Date : 06-MAY-2008 10:35
Sample Info : INDC+ CCV (L3)
Misc. Info : Method 8081
Laboratory ID : INDC+ CCV (L3) Client ID : PX-8-43-9/4
Instrument ID : 6890Q.i
Method : Q42408Pest-1.m Sublist : INDC+
Quantitation : ESTD Integrator : Falcon
Dilution Factor : 1.00 Sample Type: CCALIB_5
Column : RTX-CLP Column Size: 30.00m L- 0.32mm ID

Compound	RT	RT Window	Expected Amount	Continuing Amount	%D	Flag
Tetrachloro-m-xylene	7.30	7.26 - 7.36	0.01250	0.01355	8.4	
alpha-BHC	8.46	8.41 - 8.51	0.01000	0.01101	10.1	
gamma-BHC (Lindane)	9.06	9.01 - 9.11	0.01000	0.01076	7.6	
beta-BHC	9.22	9.18 - 9.28	0.01000	0.01002	0.2	
delta-BHC	9.54	9.50 - 9.60	0.01000	0.01052	5.2	
Heptachlor	9.90	9.86 - 9.96	0.01000	0.01020	2.0	
Aldrin	10.41	10.36 - 10.46	0.01000	0.01024	2.4	
Isodrin	10.96	10.89 - 11.03	0.01000	0.01008	0.8	
Heptachlor epoxide	11.40	11.33 - 11.47	0.01000	0.01016	1.6	
gamma-Chlordane	11.60	11.53 - 11.67	0.01000	0.01001	0.1	
alpha-Chlordane	11.80	11.74 - 11.88	0.01000	0.01000	0.0	
4,4'-DDE	11.92	11.85 - 11.99	0.02000	0.02037	1.8	
Endosulfan I	12.02	11.95 - 12.09	0.01000	0.01019	1.9	
Dieldrin	12.38	12.32 - 12.46	0.02000	0.02065	3.3	
Endrin	12.74	12.67 - 12.81	0.02000	0.02072	3.6	
4,4'-DDD	12.82	12.76 - 12.90	0.02000	0.02026	1.3	
Endosulfan II	13.08	13.01 - 13.15	0.02000	0.02035	1.7	
4,4'-DDT	13.24	13.17 - 13.31	0.02000	0.01958	-2.1	
Endrin aldehyde	13.70	13.63 - 13.77	0.02000	0.01937	-3.2	

%Drift (%D) = Continuing Amount - Expected Amount divided by Expected Amount times 100

Pace Analytical Services, Inc.
Continuing Calibration Verification Summary

Data File : Q5060804.d
Injection Date : 06-MAY-2008 10:35

Compound	RT	RT Window	Expected Amount	Continuing Amount	%D	Flag
Methoxychlor	13.94	13.87 - 14.01	0.1000	0.09222	-7.8	
Endosulfan sulfate	14.34	14.28 - 14.42	0.02000	0.01917	-4.1	
Endrin Ketone	14.76	14.69 - 14.83	0.02000	0.01918	-4.1	
Decachlorobiphenyl	16.18	16.08 - 16.28	0.01250	0.01039	-16.9	X
Average Percent Difference					3.9	

%Drift (%D) = Continuing Amount - Expected Amount divided by Expected Amount times 100

Pace Analytical Services, Inc.
Continuing Calibration Verification Summary

Data File	: //diana/target/6890q.i/Q42408Pest-2.b/Q5060804.d		
Injection Date	: 06-MAY-2008 10:35		
Sample Info	: INDC+ CCV (L3)		
Misc. Info	: Method 8081		
Laboratory ID	: INDC+ CCV (L3)	Client ID	: PX-8-43-9/4
Instrument ID	: 6890Q.i		
Method	: Q42408Pest-2.m	Sublist	: INDC+
Quantitation	: ESTD	Integrator	: Falcon
Dilution Factor	: 1.00	Sample Type	: CCALIB_5
Column	: RTX-CLP2	Column Size	: 30.00m L- 0.32mm ID

Compound	RT	RT Window	Expected Amount	Continuing Amount	%D	Flag
Tetrachloro-m-xylene	7.16	7.12 - 7.22	0.01250	0.01423	13.8	
alpha-BHC	8.40	8.36 - 8.46	0.01000	0.01155	15.5	
gamma-BHC (Lindane)	9.06	9.01 - 9.11	0.01000	0.01110	11.0	
beta-BHC	9.22	9.17 - 9.27	0.01000	0.01044	4.5	
delta-BHC	9.72	9.67 - 9.77	0.01000	0.01069	6.9	
Heptachlor	9.82	9.77 - 9.87	0.01000	0.01090	9.0	
Aldrin	10.35	10.30 - 10.40	0.01000	0.01097	9.7	
Isodrin	10.98	10.91 - 11.05	0.01000	0.01062	6.2	
Heptachlor epoxide	11.27	11.20 - 11.34	0.01000	0.01055	5.5	
gamma-Chlordane	11.56	11.50 - 11.64	0.01000	0.01033	3.3	
alpha-Chlordane	11.79	11.72 - 11.86	0.01000	0.01055	5.5	
Endosulfan I	11.87	11.80 - 11.94	0.01000	0.01036	3.6	
4,4'-DDE	12.06	11.99 - 12.13	0.02000	0.02058	2.9	
Dieldrin	12.28	12.22 - 12.36	0.02000	0.02078	3.9	
Endrin	12.74	12.67 - 12.81	0.02000	0.02032	1.6	
4,4'-DDD	12.92	12.85 - 12.99	0.02000	0.01986	-0.7	
Endosulfan II	13.06	12.98 - 13.12	0.02000	0.02043	2.2	
4,4'-DDT	13.38	13.31 - 13.45	0.02000	0.01980	-1.0	
Endrin aldehyde	13.55	13.48 - 13.62	0.02000	0.02007	0.4	

%Drift (%D) = Continuing Amount - Expected Amount divided by Expected Amount times 100

Pace Analytical Services, Inc.
Continuing Calibration Verification Summary

Data File : Q5060804.d
Injection Date : 06-MAY-2008 10:35

Compound	RT	RT Window	Expected Amount	Continuing Amount	%D	Flag
Endosulfan sulfate	13.96	13.88 - 14.02	0.02000	0.02003	0.2	
Methoxychlor	14.37	14.30 - 14.44	0.1000	0.09622	-3.8	
Endrin ketone	14.73	14.66 - 14.80	0.02000	0.01949	-2.5	
Decachlorobiphenyl	16.54	16.44 - 16.64	0.01250	0.01175	-6.0	
Average Percent Difference					5.2	

%Drift (%D) = Continuing Amount - Expected Amount divided by Expected Amount times 100

Pace Analytical Services, Inc.
Continuing Calibration Verification Summary

Data File	: //diana/target/6890q.i/Q42408Pest-1.b/Q5060815.d		
Injection Date	: 06-MAY-2008 17:11		
Sample Info	: INDC+ CCV (L3)		
Misc. Info	: Method 8081		
Laboratory ID	: INDC+ CCV (L3)	Client ID	: PX-8-43-9/4
Instrument ID	: 6890Q.i		
Method	: Q42408Pest-1.m	Sublist	: INDC+
Quantitation	: ESTD	Integrator	: Falcon
Dilution Factor	: 1.00	Sample Type	: CCALIB_5
Column	: RTX-CLP	Column Size	: 30.00m L- 0.32mm ID

Compound	RT	RT Window	Expected Amount	Continuing Amount	%D	Flag
Tetrachloro-m-xylene	7.29	7.26 - 7.36	0.01250	0.01266	1.3	
alpha-BHC	8.44	8.41 - 8.51	0.01000	0.01044	4.4	
gamma-BHC (Lindane)	9.04	9.01 - 9.11	0.01000	0.01016	1.6	
beta-BHC	9.21	9.18 - 9.28	0.01000	0.009722	-2.8	
delta-BHC	9.52	9.50 - 9.60	0.01000	0.01038	3.8	
Heptachlor	9.88	9.86 - 9.96	0.01000	0.009924	-0.8	
Aldrin	10.39	10.36 - 10.46	0.01000	0.009654	-3.5	
Isodrin	10.94	10.89 - 11.03	0.01000	0.009508	-4.9	
Heptachlor epoxide	11.38	11.33 - 11.47	0.01000	0.009372	-6.3	
gamma-Chlordane	11.58	11.53 - 11.67	0.01000	0.009594	-4.1	
alpha-Chlordane	11.79	11.74 - 11.88	0.01000	0.009291	-7.1	
4,4'-DDE	11.90	11.85 - 11.99	0.02000	0.01914	-4.3	
Endosulfan I	12.00	11.95 - 12.09	0.01000	0.009318	-6.8	
Dieldrin	12.37	12.32 - 12.46	0.02000	0.01872	-6.4	
Endrin	12.72	12.67 - 12.81	0.02000	0.01880	-6.0	
4,4'-DDD	12.81	12.76 - 12.90	0.02000	0.01897	-5.2	
Endosulfan II	13.06	13.01 - 13.15	0.02000	0.01810	-9.5	
4,4'-DDT	13.22	13.17 - 13.31	0.02000	0.01680	-16.0	
Endrin aldehyde	13.68	13.63 - 13.77	0.02000	0.01653	-17.4	

%Drift (%D) = Continuing Amount - Expected Amount divided by Expected Amount times 100

Pace Analytical Services, Inc.
Continuing Calibration Verification Summary

Data File : Q5060815.d
Injection Date : 06-MAY-2008 17:11

Compound	RT	RT Window	Expected Amount	Continuing Amount	%D	Flag
Methoxychlor	13.92	13.87 - 14.01	0.1000	0.08323	-16.8	
Endosulfan sulfate	14.33	14.28 - 14.42	0.02000	0.01723	-13.8	
Endrin Ketone	14.74	14.69 - 14.83	0.02000	0.01760	-12.0	
Decachlorobiphenyl	16.16	16.08 - 16.28	0.01250	0.009050	-27.6	*
Average Percent Difference					7.9	

%Drift (%D) = Continuing Amount - Expected Amount divided by Expected Amount times 100
** = Percent Difference is outside the acceptance limits of +/-15%

Pace Analytical Services, Inc.
Continuing Calibration Verification Summary

Data File : //diana/target/6890q.i/Q42408Pest-2.b/Q5060815.d
Injection Date : 06-MAY-2008 17:11
Sample Info : INDC+ CCV (L3)
Misc. Info : Method 8081
Laboratory ID : INDC+ CCV (L3) Client ID : PX-8-43-9/4
Instrument ID : 6890Q.i
Method : Q42408Pest-2.m Sublist : INDC+
Quantitation : ESTD Integrator : Falcon
Dilution Factor : 1.00 Sample Type: CCALIB_5
Column : RTX-CLP2 Column Size: 30.00m L- 0.32mm ID

Compound	RT	RT Window	Expected Amount	Continuing Amount	%D	Flag
Tetrachloro-m-xylene	7.17	7.12 - 7.22	0.01250	0.01354	8.3	
alpha-BHC	8.41	8.36 - 8.46	0.01000	0.01131	13.1	
gamma-BHC (Lindane)	9.06	9.01 - 9.11	0.01000	0.01112	11.2	
beta-BHC	9.22	9.17 - 9.27	0.01000	0.01058	5.8	
delta-BHC	9.72	9.67 - 9.77	0.01000	0.01092	9.2	
Heptachlor	9.82	9.77 - 9.87	0.01000	0.01121	12.1	
Aldrin	10.35	10.30 - 10.40	0.01000	0.01090	9.0	
Isodrin	10.98	10.91 - 11.05	0.01000	0.01067	6.7	
Heptachlor epoxide	11.27	11.20 - 11.34	0.01000	0.01054	5.4	
gamma-Chlordane	11.57	11.50 - 11.64	0.01000	0.01048	4.8	
alpha-Chlordane	11.79	11.72 - 11.86	0.01000	0.01035	3.5	
Endosulfan I	11.87	11.80 - 11.94	0.01000	0.01038	3.8	
4,4'-DDE	12.06	11.99 - 12.13	0.02000	0.02105	5.3	
Dieldrin	12.29	12.22 - 12.36	0.02000	0.02104	5.2	
Endrin	12.74	12.67 - 12.81	0.02000	0.02100	5.0	
4,4'-DDD	12.92	12.85 - 12.99	0.02000	0.02054	2.7	
Endosulfan II	13.05	12.98 - 13.12	0.02000	0.02010	0.5	
4,4'-DDT	13.37	13.31 - 13.45	0.02000	0.01918	-4.1	
Endrin aldehyde	13.55	13.48 - 13.62	0.02000	0.01892	-5.4	

%Drift (%D) = Continuing Amount - Expected Amount divided by Expected Amount times 100

Pace Analytical Services, Inc.
Continuing Calibration Verification Summary

Data File : Q5060815.d
Injection Date : 06-MAY-2008 17:11

Compound	RT	RT Window	Expected Amount	Continuing Amount	%D	Flag
Endosulfan sulfate	13.95	13.88 - 14.02	0.02000	0.02003	0.1	
Methoxychlor	14.37	14.30 - 14.44	0.1000	0.1012	1.2	
Endrin ketone	14.73	14.66 - 14.80	0.02000	0.01923	-3.8	
Decachlorobiphenyl	16.54	16.44 - 16.64	0.01250	0.01082	-13.4	
Average Percent Difference					6.1	

%Drift (%D) = Continuing Amount - Expected Amount divided by Expected Amount times 100

Pace Analytical Services, Inc.
Continuing Calibration Verification Summary

Data File	: //diana/target/6890q.i/Q42408Pest-1.b/Q5060822.d		
Injection Date	: 06-MAY-2008 21:03		
Sample Info	: INDC+ CCV (L3)		
Misc. Info	: Method 8081		
Laboratory ID	: INDC+ CCV (L3)	Client ID	: PX-8-43-9/4
Instrument ID	: 6890Q.i		
Method	: Q42408Pest-1.m	Sublist	: INDC+
Quantitation	: ESTD	Integrator	: Falcon
Dilution Factor	: 1.00	Sample Type	: CCALIB_5
Column	: RTX-CLP	Column Size	: 30.00m L- 0.32mm ID

Compound	RT	RT Window	Expected Amount	Continuing Amount	%D	Flag
Tetrachloro-m-xylene	7.29	7.26 - 7.36	0.01250	0.01308	4.6	
alpha-BHC	8.44	8.41 - 8.51	0.01000	0.01120	12.0	
gamma-BHC (Lindane)	9.04	9.01 - 9.11	0.01000	0.01087	8.7	
beta-BHC	9.21	9.18 - 9.28	0.01000	0.01034	3.4	
delta-BHC	9.52	9.50 - 9.60	0.01000	0.01098	9.9	
Heptachlor	9.88	9.86 - 9.96	0.01000	0.01038	3.8	
Aldrin	10.39	10.36 - 10.46	0.01000	0.01052	5.2	
Isodrin	10.94	10.89 - 11.03	0.01000	0.01021	2.1	
Heptachlor epoxide	11.38	11.33 - 11.47	0.01000	0.01038	3.8	
gamma-Chlordane	11.58	11.53 - 11.67	0.01000	0.01044	4.4	
alpha-Chlordane	11.78	11.74 - 11.88	0.01000	0.01038	3.8	
4,4'-DDE	11.90	11.85 - 11.99	0.02000	0.02088	4.4	
Endosulfan I	12.00	11.95 - 12.09	0.01000	0.01020	2.0	
Dieldrin	12.37	12.32 - 12.46	0.02000	0.02106	5.3	
Endrin	12.72	12.67 - 12.81	0.02000	0.02076	3.8	
4,4'-DDD	12.81	12.76 - 12.90	0.02000	0.02095	4.8	
Endosulfan II	13.06	13.01 - 13.15	0.02000	0.02012	0.6	
4,4'-DDT	13.22	13.17 - 13.31	0.02000	0.01910	-4.5	
Endrin aldehyde	13.68	13.63 - 13.77	0.02000	0.01911	-4.4	

%Drift (%D) = Continuing Amount - Expected Amount divided by Expected Amount times 100

Pace Analytical Services, Inc.
Continuing Calibration Verification Summary

Data File : Q5060822.d
Injection Date : 06-MAY-2008 21:03

Compound	RT	RT Window	Expected Amount	Continuing Amount	%D	Flag
Methoxychlor	13.92	13.87 - 14.01	0.1000	0.09427	-5.7	
Endosulfan sulfate	14.33	14.28 - 14.42	0.02000	0.01956	-2.2	
Endrin Ketone	14.74	14.69 - 14.83	0.02000	0.01964	-1.8	
Decachlorobiphenyl	16.16	16.08 - 16.28	0.01250	0.01052	-15.8	X
Average Percent Difference					5.1	

%Drift (%D) = Continuing Amount - Expected Amount divided by Expected Amount times 100

Pace Analytical Services, Inc.
Continuing Calibration Verification Summary

Data File	: //diana/target/6890q.i/Q42408Pest-2.b/Q5060822.d		
Injection Date	: 06-MAY-2008 21:03		
Sample Info	: INDC+ CCV (L3)		
Misc. Info	: Method 8081		
Laboratory ID	: INDC+ CCV (L3)	Client ID	: PX-8-43-9/4
Instrument ID	: 6890Q.i		
Method	: Q42408Pest-2.m	Sublist	: INDC+
Quantitation	: ESTD	Integrator	: Falcon
Dilution Factor	: 1.00	Sample Type	: CCALIB_5
Column	: RTX-CLP2	Column Size	: 30.00m L- 0.32mm ID

Compound	RT	RT Window	Expected Amount	Continuing Amount	%D	Flag
Tetrachloro-m-xylene	7.17	7.12 - 7.22	0.01250	0.01374	9.9	
alpha-BHC	8.41	8.36 - 8.46	0.01000	0.01174	17.4	
gamma-BHC (Lindane)	9.06	9.01 - 9.11	0.01000	0.01155	15.5	
beta-BHC	9.22	9.17 - 9.27	0.01000	0.01079	7.9	
delta-BHC	9.72	9.67 - 9.77	0.01000	0.01128	12.8	
Heptachlor	9.82	9.77 - 9.87	0.01000	0.01154	15.4	
Aldrin	10.35	10.30 - 10.40	0.01000	0.01136	13.6	
Isodrin	10.98	10.91 - 11.05	0.01000	0.01117	11.7	
Heptachlor epoxide	11.27	11.20 - 11.34	0.01000	0.01119	11.9	
gamma-Chlordane	11.56	11.50 - 11.64	0.01000	0.01106	10.6	
alpha-Chlordane	11.79	11.72 - 11.86	0.01000	0.01113	11.3	
Endosulfan I	11.87	11.80 - 11.94	0.01000	0.01108	10.8	
4,4'-DDE	12.06	11.99 - 12.13	0.02000	0.02221	11.0	
Dieldrin	12.28	12.22 - 12.36	0.02000	0.02289	14.5	
Endrin	12.74	12.67 - 12.81	0.02000	0.02194	9.7	
4,4'-DDD	12.91	12.85 - 12.99	0.02000	0.02235	11.8	
Endosulfan II	13.05	12.98 - 13.12	0.02000	0.02191	9.5	
4,4'-DDT	13.37	13.31 - 13.45	0.02000	0.02140	7.0	
Endrin aldehyde	13.55	13.48 - 13.62	0.02000	0.02082	4.1	

%Drift (%D) = Continuing Amount - Expected Amount divided by Expected Amount times 100

Pace Analytical Services, Inc.
Continuing Calibration Verification Summary

Data File : Q5060822.d
Injection Date : 06-MAY-2008 21:03

Compound	RT	RT Window	Expected Amount	Continuing Amount	%D	Flag
Endosulfan sulfate	13.95	13.88 - 14.02	0.02000	0.02144	7.2	
Methoxychlor	14.37	14.30 - 14.44	0.1000	0.1097	9.7	
Endrin ketone	14.73	14.66 - 14.80	0.02000	0.02159	7.9	
Decachlorobiphenyl	16.54	16.44 - 16.64	0.01250	0.01253	0.3	
Average Percent Difference					10.5	

%Drift (%D) = Continuing Amount - Expected Amount divided by Expected Amount times 100

Pace Analytical Services, Inc.
BATCH SUMMARY (for databatch - \\diana\target\6890q.i\Q42408Pest-1.b)

	Filename	Lab Sample ID	Client Sample ID	SDG	I.V.	D.F.	Inj. Date & Time
1	Q5070803.d	PEM	PX-8-43-7	PEM	2	1	07-MAY-2008 09:51
2	Q5070804.d	INDC+ CCV (L3)	PX-8-43-9/4	CCV	2	1	07-MAY-2008 10:24
3	Q5070805.d	TT46702-014RX	09SS 138 0002	TT46702	1	10	07-MAY-2008 11:03
4	Q5070806.d	TT46701-003RXRX	09SS 111 0002	TT46701	1	10000	07-MAY-2008 11:36
5	Q5070807.d	TT46701-008RXRX	09SS 116 0002	TT46701	1	50	07-MAY-2008 12:09
6	Q5070808.d	TT46701-017RXRX	09FD04070801	TT46701	1	100	07-MAY-2008 12:42
7	Q5070809.d	INDC+ CCV (L3)	PX-8-43-9/4	CCV	2	1	07-MAY-2008 13:15

I.V. = Inj.Vol. per Column Batch Summary Ver 2.0 9-5-2002

Pace Analytical Services, Inc.
Continuing Calibration Verification Summary

Data File : //diana/target/6890q.i/Q42408Pest-1.b/Q5070804.d
Injection Date : 07-MAY-2008 10:24
Sample Info : INDC+ CCV (L3)
Misc. Info : Method 8081
Laboratory ID : INDC+ CCV (L3) Client ID : PX-8-43-9/4
Instrument ID : 6890Q.i
Method : Q42408Pest-1.m Sublist : INDC+
Quantitation : ESTD Integrator : Falcon
Dilution Factor : 1.00 Sample Type: CCALIB_5
Column : RTX-CLP Column Size: 30.00m L- 0.32mm ID

Compound	RT	RT Window	Expected Amount	Continuing Amount	%D	Flag
Tetrachloro-m-xylene	7.29	7.26 - 7.36	0.01250	0.01333	6.6	
alpha-BHC	8.44	8.41 - 8.51	0.01000	0.01113	11.3	
gamma-BHC (Lindane)	9.04	9.01 - 9.11	0.01000	0.01088	8.8	
beta-BHC	9.21	9.18 - 9.28	0.01000	0.01014	1.4	
delta-BHC	9.52	9.50 - 9.60	0.01000	0.01066	6.6	
Heptachlor	9.88	9.86 - 9.96	0.01000	0.01014	1.5	
Aldrin	10.39	10.36 - 10.46	0.01000	0.01034	3.4	
Isodrin	10.94	10.89 - 11.03	0.01000	0.01009	0.9	
Heptachlor epoxide	11.38	11.33 - 11.47	0.01000	0.01008	0.8	
gamma-Chlordane	11.58	11.53 - 11.67	0.01000	0.01009	0.9	
alpha-Chlordane	11.78	11.74 - 11.88	0.01000	0.009898	-1.0	
4,4'-DDE	11.90	11.85 - 11.99	0.02000	0.01995	-0.2	
Endosulfan I	12.00	11.95 - 12.09	0.01000	0.009836	-1.6	
Dieldrin	12.37	12.32 - 12.46	0.02000	0.02008	0.4	
Endrin	12.72	12.67 - 12.81	0.02000	0.02029	1.4	
4,4'-DDD	12.81	12.76 - 12.90	0.02000	0.02012	0.6	
Endosulfan II	13.06	13.01 - 13.15	0.02000	0.01927	-3.7	
4,4'-DDT	13.22	13.17 - 13.31	0.02000	0.01782	-10.9	
Endrin aldehyde	13.68	13.63 - 13.77	0.02000	0.01782	-10.9	

%Drift (%D) = Continuing Amount - Expected Amount divided by Expected Amount times 100

Pace Analytical Services, Inc.
Continuing Calibration Verification Summary

Data File : Q5070804.d
Injection Date : 07-MAY-2008 10:24

Compound	RT	RT Window	Expected Amount	Continuing Amount	%D	Flag
Methoxychlor	13.92	13.87 - 14.01	0.1000	0.08540	-14.6	
Endosulfan sulfate	14.33	14.28 - 14.42	0.02000	0.01872	-6.4	
Endrin Ketone	14.74	14.69 - 14.83	0.02000	0.01879	-6.1	
Decachlorobiphenyl	16.16	16.08 - 16.28	0.01250	0.01001	-19.9	
Average Percent Difference					5.2	

%Drift (%D) = Continuing Amount - Expected Amount divided by Expected Amount times 100

Pace Analytical Services, Inc.
Continuing Calibration Verification Summary

Data File : //diana/target/6890q.i/Q42408Pest-2.b/Q5070804.d
Injection Date : 07-MAY-2008 10:24
Sample Info : INDC+ CCV (L3)
Misc. Info : Method 8081
Laboratory ID : INDC+ CCV (L3) Client ID : PX-8-43-9/4
Instrument ID : 6890Q.i
Method : Q42408Pest-2.m Sublist : INDC+
Quantitation : ESTD Integrator : Falcon
Dilution Factor : 1.00 Sample Type: CCALIB_5
Column : RTX-CLP2 Column Size: 30.00m L- 0.32mm ID

Compound	RT	RT Window	Expected Amount	Continuing Amount	%D	Flag
Tetrachloro-m-xylene	7.17	7.12 - 7.22	0.01250	0.01343	7.4	
alpha-BHC	8.41	8.36 - 8.46	0.01000	0.01100	10.0	
gamma-BHC (Lindane)	9.06	9.01 - 9.11	0.01000	0.01100	10.0	
beta-BHC	9.22	9.17 - 9.27	0.01000	0.01030	3.0	
delta-BHC	9.72	9.67 - 9.77	0.01000	0.01064	6.4	
Heptachlor	9.82	9.77 - 9.87	0.01000	0.01092	9.2	
Aldrin	10.36	10.30 - 10.40	0.01000	0.01079	7.9	
Isodrin	10.98	10.91 - 11.05	0.01000	0.01075	7.5	
Heptachlor epoxide	11.27	11.20 - 11.34	0.01000	0.01060	6.0	
gamma-Chlordane	11.56	11.50 - 11.64	0.01000	0.01031	3.1	
alpha-Chlordane	11.79	11.72 - 11.86	0.01000	0.01053	5.3	
Endosulfan I	11.87	11.80 - 11.94	0.01000	0.01048	4.8	
4,4'-DDE	12.06	11.99 - 12.13	0.02000	0.02066	3.3	
Dieldrin	12.28	12.22 - 12.36	0.02000	0.02068	3.4	
Endrin	12.74	12.67 - 12.81	0.02000	0.02036	1.8	
4,4'-DDD	12.92	12.85 - 12.99	0.02000	0.02079	4.0	
Endosulfan II	13.05	12.98 - 13.12	0.02000	0.02048	2.4	
4,4'-DDT	13.38	13.31 - 13.45	0.02000	0.01940	-3.0	
Endrin aldehyde	13.55	13.48 - 13.62	0.02000	0.01877	-6.2	

%Drift (%D) = Continuing Amount - Expected Amount divided by Expected Amount times 100

Pace Analytical Services, Inc.
Continuing Calibration Verification Summary

Data File : Q5070804.d
Injection Date : 07-MAY-2008 10:24

Compound	RT	RT Window	Expected Amount	Continuing Amount	%D	Flag
Endosulfan sulfate	13.95	13.88 - 14.02	0.02000	0.02060	3.0	
Methoxychlor	14.37	14.30 - 14.44	0.1000	0.09744	-2.6	
Endrin ketone	14.73	14.66 - 14.80	0.02000	0.02043	2.2	
Decachlorobiphenyl	16.54	16.44 - 16.64	0.01250	0.01183	-5.3	
Average Percent Difference					5.1	

%Drift (%D) = Continuing Amount - Expected Amount divided by Expected Amount times 100

Pace Analytical Services, Inc.
Continuing Calibration Verification Summary

Data File : //diana/target/6890q.i/Q42408Pest-1.b/Q5070809.d
Injection Date : 07-MAY-2008 13:15
Sample Info : INDC+ CCV (L3)
Misc. Info : Method 8081
Laboratory ID : INDC+ CCV (L3) Client ID : PX-8-43-9/4
Instrument ID : 6890Q.i
Method : Q42408Pest-1.M Sublist : INDC+
Quantitation : ESTD Integrator : Falcon
Dilution Factor : 1.00 Sample Type: CCALIB_5
Column : RTX-CLP Column Size: 30.00m L- 0.32mm ID

Compound	RT	RT Window	Expected Amount	Continuing Amount	%D	Flag
Tetrachloro-m-xylene	7.29	7.26 - 7.36	0.01250	0.01307	4.6	
alpha-BHC	8.44	8.41 - 8.51	0.01000	0.01065	6.5	
gamma-BHC (Lindane)	9.04	9.01 - 9.11	0.01000	0.01047	4.7	
beta-BHC	9.21	9.18 - 9.28	0.01000	0.009950	-0.5	
delta-BHC	9.52	9.50 - 9.60	0.01000	0.01021	2.1	
Heptachlor	9.88	9.86 - 9.96	0.01000	0.01007	0.7	
Aldrin	10.39	10.36 - 10.46	0.01000	0.01018	1.8	
Isodrin	10.94	10.89 - 11.03	0.01000	0.01017	1.7	
Heptachlor epoxide	11.38	11.33 - 11.47	0.01000	0.009895	-1.0	
gamma-Chlordane	11.58	11.53 - 11.67	0.01000	0.009721	-2.8	
alpha-Chlordane	11.79	11.74 - 11.88	0.01000	0.009823	-1.8	
4,4'-DDE	11.91	11.85 - 11.99	0.02000	0.01967	-1.6	
Endosulfan I	12.00	11.95 - 12.09	0.01000	0.009838	-1.6	
Dieldrin	12.37	12.32 - 12.46	0.02000	0.01969	-1.6	
Endrin	12.72	12.67 - 12.81	0.02000	0.01916	-4.2	
4,4'-DDD	12.81	12.76 - 12.90	0.02000	0.01910	-4.5	
Endosulfan II	13.06	13.01 - 13.15	0.02000	0.01860	-7.0	
4,4'-DDT	13.22	13.17 - 13.31	0.02000	0.01675	-16.3	
Endrin aldehyde	13.69	13.63 - 13.77	0.02000	0.01669	-16.5	

%Drift (%D) = Continuing Amount - Expected Amount divided by Expected Amount times 100

Pace Analytical Services, Inc.
Continuing Calibration Verification Summary

Data File : Q5070809.d
Injection Date : 07-MAY-2008 13:15

Compound	RT	RT Window	Expected Amount	Continuing Amount	%D	Flag
Methoxychlor	13.92	13.87 - 14.01	0.1000	0.08383	-16.2	
Endosulfan sulfate	14.33	14.28 - 14.42	0.02000	0.01793	-10.3	
Endrin Ketone	14.74	14.69 - 14.83	0.02000	0.01808	-9.6	
Decachlorobiphenyl	16.16	16.08 - 16.28	0.01250	0.01010	-19.2	+
Average Percent Difference					5.9	

%Drift (%D) = Continuing Amount - Expected Amount divided by Expected Amount times 100

Pace Analytical Services, Inc.
Continuing Calibration Verification Summary

Data File : //diana/target/6890q.i/Q42408Pest-2.b/Q5070809.d
Injection Date : 07-MAY-2008 13:15
Sample Info : INDC+ CCV (L3)
Misc. Info : Method 8081
Laboratory ID : INDC+ CCV (L3) Client ID : PX-8-43-9/4
Instrument ID : 6890Q.i
Method : Q42408Pest-2.m Sublist : INDC+
Quantitation : ESTD Integrator : Falcon
Dilution Factor : 1.00 Sample Type: CCALIB_5
Column : RTX-CLP2 Column Size: 30.00m L- 0.32mm ID

Compound	RT	RT Window	Expected Amount	Continuing Amount	%D	Flag
Tetrachloro-m-xylene	7.17	7.12 - 7.22	0.01250	0.01357	8.5	
alpha-BHC	8.41	8.36 - 8.46	0.01000	0.01132	13.2	
gamma-BHC (Lindane)	9.06	9.01 - 9.11	0.01000	0.01121	12.1	
beta-BHC	9.22	9.17 - 9.27	0.01000	0.01045	4.5	
delta-BHC	9.72	9.67 - 9.77	0.01000	0.01085	8.5	
Heptachlor	9.82	9.77 - 9.87	0.01000	0.01115	11.5	
Aldrin	10.35	10.30 - 10.40	0.01000	0.01095	9.5	
Isodrin	10.98	10.91 - 11.05	0.01000	0.01078	7.9	
Heptachlor epoxide	11.27	11.20 - 11.34	0.01000	0.01066	6.6	
gamma-Chlordane	11.57	11.50 - 11.64	0.01000	0.01043	4.3	
alpha-Chlordane	11.79	11.72 - 11.86	0.01000	0.01059	5.9	
Endosulfan I	11.87	11.80 - 11.94	0.01000	0.01060	6.0	
4,4'-DDE	12.06	11.99 - 12.13	0.02000	0.02077	3.9	
Dieldrin	12.28	12.22 - 12.36	0.02000	0.02124	6.2	
Endrin	12.74	12.67 - 12.81	0.02000	0.02068	3.4	
4,4'-DDD	12.91	12.85 - 12.99	0.02000	0.02037	1.8	
Endosulfan II	13.05	12.98 - 13.12	0.02000	0.02060	3.0	
4,4'-DDT	13.37	13.31 - 13.45	0.02000	0.01887	-5.6	
Endrin aldehyde	13.55	13.48 - 13.62	0.02000	0.01831	-8.4	

%Drift (%D) = Continuing Amount - Expected Amount divided by Expected Amount times 100

Pace Analytical Services, Inc.
Continuing Calibration Verification Summary

Data File : Q5070809.d
Injection Date : 07-MAY-2008 13:15

Compound	RT	RT Window	Expected Amount	Continuing Amount	%D	Flag
Endosulfan sulfate	13.95	13.88 - 14.02	0.02000	0.01993	-0.3	
Methoxychlor	14.37	14.30 - 14.44	0.1000	0.09683	-3.2	
Endrin ketone	14.73	14.66 - 14.80	0.02000	0.01990	-0.5	
Decachlorobiphenyl	16.54	16.44 - 16.64	0.01250	0.01196	-4.3	
Average Percent Difference					6.1	

%Drift (%D) = Continuing Amount - Expected Amount divided by Expected Amount times 100

Pace Analytical Services, Inc.
BATCH SUMMARY (for databatch - \\diana\target\6890q.i\Q51608Pest-1.b)

	Filename	Lab Sample ID	Client Sample ID	SDG	I.V.	D.F.	Inj. Date & Time
1	Q5160803.d	PEM	PX-8-43-7	PEM	2	1	16-MAY-2008 10:33
2	Q5160804.d	INDC+ (L1)	PX-8-43-9/20	CALIB	2	1	16-MAY-2008 13:15
3	Q5160805.d	INDC+ (L2)	PX-8-43-9/10	CALIB	2	1	16-MAY-2008 13:48
4	Q5160806.d	INDC+ (L3)	PX-8-43-9/4	CALIB	2	1	16-MAY-2008 14:21
5	Q5160807.d	INDC+ (L4)	PX-8-43-9/2	CALIB	2	1	16-MAY-2008 14:54
6	Q5160808.d	INDC+ (L5)	PX-8-43-9	CALIB	2	1	16-MAY-2008 15:27
7	Q5160809.d	PI BLANK	PX-8-43-8	INSTBLAN	2	1	16-MAY-2008 16:00
8	Q5160810.d	TOXAPHENE	PX-8-41-12/20	CALIB	2	1	16-MAY-2008 16:33
9	Q5160811.d	INDC+ 2nd CCV	PX-8-43-3/4	CCV	2	1	16-MAY-2008 17:06

GR
5/19/08

I.V. = Inj.Vol. per Column Batch Summary Ver 2.0 9-5-2002

Pace Analytical Services, Inc.
Initial Calibration Linearity Summary

Start Cal Date: 16-MAY-2008 13:15
End Cal Date : 16-MAY-2008 15:27
Quant Method : ESTD
Cal Curve Type: Average CF
Integrator : Falcon
Method File : \\diana\target\6890q.i\Q51608Pest-1.b\Q51608Pest-1.M
Method : Method 8081
Sublist : INDC+.sub
Column : RTX-CLP
Column Size : 30m L - 0.32mm ID

Calibration Files:
Level 1: //diana/target/6890q.i/Q51608Pest-1.b/Q5160804.d
Level 2: //diana/target/6890q.i/Q51608Pest-1.b/Q5160805.d
Level 3: //diana/target/6890q.i/Q51608Pest-1.b/Q5160806.d
Level 4: //diana/target/6890q.i/Q51608Pest-1.b/Q5160807.d
Level 5: //diana/target/6890q.i/Q51608Pest-1.b/Q5160808.d

Compound	Level 1	Level 2	Level 3	Level 4	Level 5	Ave CF	%RSD
44 alpha-BHC	869465500	978621000	1048686000	1123281000	1143246000	1032660000	10.9
45 gamma-BHC (Lindane)	875918000	951534800	1002146000	1048862000	1073207000	990333600	8.0
46 beta-BHC	420677000	412674000	397557600	403312200	412050500	409254300	2.2
47 delta-BHC	778018500	855167000	927940900	1002097000	1035062000	919657000	11.5
48 Heptachlor	1013175000	1021500000	1044622000	1080905000	1103733000	1052787000	3.7
49 Aldrin	851054500	905647200	955655400	1009817000	1027875000	950009800	7.7
50 Heptachlor epoxide	872770500	903865200	900453500	943579400	960829800	916299700	3.9
51 gamma-Chlordane	971302000	890301200	891906200	917627600	961708900	926569200	4.1
52 alpha-Chlordane	848673000	854782500	866147100	892049400	933171500	878964700	3.9
53 Endosulfan I	808681500	829696500	830074100	867382900	868736100	840914200	3.1

Amount = Response divided by CF

CF - Calibration Factor (response divided by concentration).
RSD - Relative Standard Deviation.

SUM - 98

Pace Analytical Services, Inc.
Initial Calibration Linearity Summary

Compound	Level 1	Level 2	Level 3	Level 4	Level 5	Ave CF	%RSD
54 4,4'-DDE	767045800	799618500	874829400	875186400	875718900	838479800	6.2
55 Dieldrin	846566000	905404500	942654900	968945900	948474000	922409100	5.2
56 Endrin	737224200	795645900	830192600	845956100	836630300	809129800	5.5
57 4,4'-DDD	621622800	644062800	696229600	703038200	721086700	677208000	6.2
58 Endosulfan II	777272200	790878000	773570200	782562300	768684800	778593500	1.1
59 Endrin aldehyde	609500500	630467500	597929700	655700100	648168200	628353200	3.9
60 4,4'-DDT	860946500	861770900	918495900	864715000	857484400	872682500	2.9
61 Endosulfan sulfate	765588500	767737400	747234200	740754600	733528200	750968600	2.0
62 Methoxychlor	431088600	425316400	415509700	383439100	354585900	401987900	8.0
63 Endrin Ketone	869188800	915896000	882112200	871235700	865310900	884688700	2.2
66 Isodrin	819323500	866913800	870247400	918797400	925520600	880160500	4.9
1 Tetrachloro-m-xylene	657294400	679742200	656040100	685830400	696978900	675177200	2.7
11 Decachlorobiphenyl	1009192000	937766200	839294600	816634400	806820200	881941600	10.0

Amount = Response divided by CF

CF - Calibration Factor (response divided by concentration).
RSD - Relative Standard Deviation.

SUM - 99

Pace Analytical Services, Inc.
Initial Calibration Retention Time Summary

Start Cal Date: 16-MAY-2008 13:15
End Cal Date : 16-MAY-2008 15:27
Quant Method : ESTD
Cal Curve Type: Average CF
Integrator : Falcon
Method File : \\diana\target\6890q.i\Q51608Pest-1.b\Q51608Pest-1.M
Method : Method 8081
Sublist : INDC+.sub
Column : RTX-CLP
Column Size : 30m L - 0.32mm ID

Calibration Files:
Level 1: //diana/target/6890q.i/Q51608Pest-1.b/Q5160804.d
Level 2: //diana/target/6890q.i/Q51608Pest-1.b/Q5160805.d
Level 3: //diana/target/6890q.i/Q51608Pest-1.b/Q5160806.d
Level 4: //diana/target/6890q.i/Q51608Pest-1.b/Q5160807.d
Level 5: //diana/target/6890q.i/Q51608Pest-1.b/Q5160808.d

Compound	Level 1	Level 2	Level 3	Level 4	Level 5	Ave RT
44 alpha-BHC	8.45	8.44	8.45	8.45	8.44	8.446
45 gamma-BHC (Lindane)	9.05	9.04	9.05	9.05	9.04	9.046
46 beta-BHC	9.22	9.21	9.21	9.21	9.21	9.212
47 delta-BHC	9.54	9.53	9.53	9.53	9.53	9.532
48 Heptachlor	9.89	9.88	9.89	9.88	9.88	9.884
49 Aldrin	10.40	10.39	10.39	10.39	10.39	10.392
50 Heptachlor epoxide	11.39	11.38	11.38	11.38	11.38	11.382
51 gamma-Chlordane	11.59	11.58	11.58	11.58	11.58	11.582
52 alpha-Chlordane	11.80	11.79	11.79	11.78	11.78	11.788
53 Endosulfan I	12.01	12.00	12.00	12.00	12.00	12.002

Retention times are expressed as minutes.

SUM - 100

Pace Analytical Services, Inc.
Initial Calibration Retention Time Summary

Start Cal Date: 16-MAY-2008 13:15
End Cal Date : 16-MAY-2008 15:27
Quant Method : ESTD
Cal Curve Type: Average CF
Integrator : Falcon
Method File : \\diana\target\6890q.i\Q51608Pest-1.b\Q51608Pest-1.M
Method : Method 8081
Sublist : INDC+.sub
Column : RTX-CLP
Column Size : 30m L - 0.32mm ID

Compound	Level 1	Level 2	Level 3	Level 4	Level 5	Ave RT
54 4,4'-DDE	11.92	11.91	11.91	11.91	11.90	11.910
55 Dieldrin	12.38	12.37	12.37	12.37	12.36	12.370
56 Endrin	12.73	12.72	12.72	12.72	12.72	12.722
57 4,4'-DDD	12.82	12.81	12.81	12.81	12.81	12.812
58 Endosulfan II	13.07	13.06	13.06	13.06	13.06	13.062
59 Endrin aldehyde	13.69	13.69	13.68	13.68	13.68	13.684
60 4,4'-DDT	13.23	13.22	13.22	13.22	13.22	13.222
61 Endosulfan sulfate	14.34	14.33	14.33	14.33	14.32	14.330
62 Methoxychlor	13.93	13.92	13.92	13.92	13.92	13.922
63 Endrin Ketone	14.75	14.74	14.74	14.74	14.74	14.742
66 Isodrin	10.95	10.94	10.94	10.94	10.94	10.942
1 Tetrachloro-m-xylene	7.31	7.30	7.30	7.30	7.30	7.302
11 Decachlorobiphenyl	16.17	16.16	16.16	16.16	16.16	16.162

Retention times are expressed as minutes.

Pace Analytical Services, Inc.
Initial Calibration Amounts Summary

Start Cal Date: 16-MAY-2008 13:15
End Cal Date : 16-MAY-2008 15:27
Quant Method : ESTD
Cal Curve Type: Average CF
Integrator : Falcon
Method File : \\diana\target\6890q.i\Q51608Pest-1.b\Q51608Pest-1.M
Method : Method 8081
Sublist : INDC+.sub
Column : RTX-CLP
Column Size : 30m L - 0.32mm ID

Calibration Files:
Level 1: //diana/target/6890q.i/Q51608Pest-1.b/Q5160804.d
Level 2: //diana/target/6890q.i/Q51608Pest-1.b/Q5160805.d
Level 3: //diana/target/6890q.i/Q51608Pest-1.b/Q5160806.d
Level 4: //diana/target/6890q.i/Q51608Pest-1.b/Q5160807.d
Level 5: //diana/target/6890q.i/Q51608Pest-1.b/Q5160808.d

Compound	Level 1	Level 2	Level 3	Level 4	Level 5
44 alpha-BHC	0.00200✓	0.00400✓	0.01000✓	0.02000✓	0.04000✓
45 gamma-BHC (Lindane)	0.00200	0.00400	0.01000	0.02000	0.04000
46 beta-BHC	0.00200	0.00400	0.01000	0.02000	0.04000
47 delta-BHC	0.00200	0.00400	0.01000	0.02000	0.04000
48 Heptachlor	0.00200	0.00400	0.01000	0.02000	0.04000
49 Aldrin	0.00200	0.00400	0.01000	0.02000	0.04000
50 Heptachlor epoxide	0.00200	0.00400	0.01000	0.02000	0.04000
51 gamma-Chlordane	0.00200	0.00400	0.01000	0.02000	0.04000
52 alpha-Chlordane	0.00200	0.00400	0.01000	0.02000	0.04000
53 Endosulfan I	0.00200	0.00400	0.01000	0.02000	0.04000

Standard concentrations are expressed as ng.

Pace Analytical Services, Inc.
Initial Calibration Amounts Summary

Start Cal Date: 16-MAY-2008 13:15
End Cal Date : 16-MAY-2008 15:27
Quant Method : ESTD
Cal Curve Type: Average CF
Integrator : Falcon
Method File : \\diana\target\6890q.i\Q51608Pest-1.b\Q51608Pest-1.M
Method : Method 8081
Sublist : INDC+.sub
Column : RTX-CLP
Column Size : 30m L - 0.32mm ID

Compound	Level 1	Level 2	Level 3	Level 4	Level 5
54 4,4'-DDE	0.00400	0.00800	0.02000	0.04000	0.08000
55 Dieldrin	0.00400	0.00800	0.02000	0.04000	0.08000
56 Endrin	0.00400	0.00800	0.02000	0.04000	0.08000
57 4,4'-DDD	0.00400	0.00800	0.02000	0.04000	0.08000
58 Endosulfan II	0.00400	0.00800	0.02000	0.04000	0.08000
59 Endrin aldehyde	0.00400	0.00800	0.02000	0.04000	0.08000
60 4,4'-DDT	0.00400	0.00800	0.02000	0.04000	0.08000
61 Endosulfan sulfate	0.00400	0.00800	0.02000	0.04000	0.08000
62 Methoxychlor	0.02000	0.04000	0.10000	0.20000	0.40000
63 Endrin Ketone	0.00400	0.00800	0.02000	0.04000	0.08000
66 Isodrin	0.00200	0.00400	0.01000	0.02000	0.04000
1 Tetrachloro-m-xylene	0.00250	0.00500	0.01250	0.02500	0.05000
11 Decachlorobiphenyl	0.00250	0.00500	0.01250	0.02500	0.05000

Standard concentrations are expressed as ng.

Pace Analytical Services, Inc.
Initial Calibration Response Summary

Start Cal Date: 16-MAY-2008 13:15
End Cal Date : 16-MAY-2008 15:27
Quant Method : ESTD
Cal Curve Type: Average CF
Integrator : Falcon
Method File : \\diana\target\6890q.i\Q51608Pest-1.b\Q51608Pest-1.M
Method : Method 8081
Sublist : INDC+.sub
Column : RTX-CLP
Column Size : 30m L - 0.32mm ID

Calibration Files:
Level 1: //diana/target/6890q.i/Q51608Pest-1.b/Q5160804.d
Level 2: //diana/target/6890q.i/Q51608Pest-1.b/Q5160805.d
Level 3: //diana/target/6890q.i/Q51608Pest-1.b/Q5160806.d
Level 4: //diana/target/6890q.i/Q51608Pest-1.b/Q5160807.d
Level 5: //diana/target/6890q.i/Q51608Pest-1.b/Q5160808.d

Compound	Level 1	Level 2	Level 3	Level 4	Level 5
44 alpha-BHC	1738931.0	3914484.0	10486856	22465620	45729826
45 gamma-BHC (Lindane)	1751836.0	3806139.0	10021457	20977250	42928289
46 beta-BHC	841354.00	1650696.0	3975576.0	8066245.0	16482020
47 delta-BHC	1556037.0	3420668.0	9279409.0	20041934	41402467
48 Heptachlor	2026350.0	4086000.0	10446222	21618106	44149334
49 Aldrin	1702109.0	3622589.0	9556554.0	20196334	41114996
50 Heptachlor epoxide	1745541.0	3615461.0	9004535.0	18871587	38433190
51 gamma-Chlordane	1942604.0	3561205.0	8919062.0	18352551	38468357
52 alpha-Chlordane	1697346.0	3419130.0	8661471.0	17840987	37326861
53 Endosulfan I	1617363.0	3318786.0	8300741.0	17347658	34749443

Response is in Height units.

SUM - 104

Pace Analytical Services, Inc.
Initial Calibration Response Summary

Start Cal Date: 16-MAY-2008 13:15
End Cal Date : 16-MAY-2008 15:27
Quant Method : ESTD
Cal Curve Type: Average CF
Integrator : Falcon
Method File : \\diana\target\6890q.i\Q51608Pest-1.b\Q51608Pest-1.M
Method : Method 8081
Sublist : INDC+.sub
Column : RTX-CLP
Column Size : 30m L - 0.32mm ID

Compound	Level 1	Level 2	Level 3	Level 4	Level 5
54 4,4'-DDE	3068183.0	6396948.0	17496588	35007456	70057510
55 Dieldrin	3386264.0	7243236.0	18853098	38757836	75877921
56 Endrin	2948897.0	6365167.0	16603853	33838245	66930427
57 4,4'-DDD	2486491.0	5152502.0	13924592	28121530	57686933
58 Endosulfan II	3109089.0	6327024.0	15471405	31302493	61494785
59 Endrin aldehyde	2438002.0	5043740.0	11958594	26228003	51853454
60 4,4'-DDT	3443786.0	6894167.0	18369918	34588598	68598750
61 Endosulfan sulfate	3062354.0	6141899.0	14944683	29630186	58682254
62 Methoxychlor	8621773.0	17012654	41550971	76687822	141834370
63 Endrin Ketone	3556755.0	7324768.0	17642245	34849428	69224873
66 Isodrin	1638647.0	3467655.0	8702474.0	18375948	37020823
1 Tetrachloro-m-xylene	1643236.0	3398711.0	8200501.0	17145761	34848944
11 Decachlorobiphenyl	2522981.0	4688831.0	10491182	20415861	40341011

Response is in Height units.

Pace Analytical Services, Inc.
Initial Calibration Linearity Summary

Start Cal Date: 16-MAY-2008 16:33
End Cal Date : 16-MAY-2008 16:33
Quant Method : ESTD
Cal Curve Type: Average CF
Integrator : Falcon
Method File : \\diana\target\6890q.i\Q51608Pest-1.b\Q51608Pest-1.M
Method : Method 8081
Sublist : TOX.sub
Column : RTX-CLP
Column Size : 30m L - 0.32mm ID

Calibration Files:
Level 1: //diana/target/6890q.i/Q51608Pest-1.b/Q5160810.d

Compound	Level 1	Ave CF	%RSD
Toxaphene-1	18342660	18342660	0.0
Toxaphene-2	17734160	17734160	0.0
Toxaphene-3	20669740	20669740	0.0
Toxaphene-4	16753020	16753020	0.0
Toxaphene-5	11371200	11371200	0.0

Amount = Response divided by CF

CF - Calibration Factor (response divided by concentration).
RSD - Relative Standard Deviation.

Pace Analytical Services, Inc.
Initial Calibration Retention Time Summary

Start Cal Date: 16-MAY-2008 16:33
End Cal Date : 16-MAY-2008 16:33
Quant Method : ESTD
Cal Curve Type: Average CF
Integrator : Falcon
Method File : \\diana\target\6890q.i\Q51608Pest-1.b\Q51608Pest-1.M
Method : Method 8081
Sublist : TOX.sub
Column : RTX-CLP
Column Size : 30m L - 0.32mm ID

Calibration Files:
Level 1: //diana/target/6890q.i/Q51608Pest-1.b/Q5160810.d

Compound	Level 1	Ave RT
Toxaphene-1	13.23	13.230
Toxaphene-2	13.55	13.550
Toxaphene-3	14.18	14.180
Toxaphene-4	14.70	14.700
Toxaphene-5	14.92	14.920

Retention times are expressed as minutes.

Pace Analytical Services, Inc.
Initial Calibration Amounts Summary

Start Cal Date: 16-MAY-2008 16:33
End Cal Date : 16-MAY-2008 16:33
Quant Method : ESTD
Cal Curve Type: Average CF
Integrator : Falcon
Method File : \\diana\target\6890q.i\Q51608Pest-1.b\Q51608Pest-1.M
Method : Method 8081
Sublist : TOX.sub
Column : RTX-CLP
Column Size : 30m L - 0.32mm ID

Calibration Files:
Level 1: //diana/target/6890q.i/Q51608Pest-1.b/Q5160810.d

Compound	Level 1
Toxaphene-1	0.05000
Toxaphene-2	0.05000
Toxaphene-3	0.05000
Toxaphene-4	0.05000
Toxaphene-5	0.05000

Standard concentrations are expressed as ng.

Pace Analytical Services, Inc.
Initial Calibration Response Summary

Start Cal Date: 16-MAY-2008 16:33
End Cal Date : 16-MAY-2008 16:33
Quant Method : ESTD
Cal Curve Type: Average CF
Integrator : Falcon
Method File : \\diana\target\6890q.i\Q51608Pest-1.b\Q51608Pest-1.M
Method : Method 8081
Sublist : TOX.sub
Column : RTX-CLP
Column Size : 30m L - 0.32mm ID

Calibration Files:
Level 1: //diana/target/6890q.i/Q51608Pest-1.b/Q5160810.d

Compound	Level 1
Toxaphene-1	917133.00
Toxaphene-2	886708.00
Toxaphene-3	1033487.0
Toxaphene-4	837651.00
Toxaphene-5	568560.00

Response is in Height units.

Pace Analytical Services, Inc.
Continuing Calibration Verification Summary

Data File : //diana/target/6890q.i/Q51608Pest-1.b/Q5160811.d
Injection Date : 16-MAY-2008 17:06
Sample Info : INDC+ 2nd CCV
Misc. Info : Method 8081
Laboratory ID : INDC+ 2nd CCV
Instrument ID : 6890Q.i
Method : Q51608Pest-1.m
Quantitation : ESTD
Dilution Factor : 1.00
Column : RTX-CLP

Client ID : PX-8-43-3/4
Sublist : INDC+
Integrator : Falcon
Sample Type: CCALIB_5
Column Size: 30.00m L- 0.32mm ID

Compound	RT	RT Window	Expected Amount	Continuing Amount	%D	Flag
Tetrachloro-m-xylene	7.30	7.25 - 7.35	0.01250	0.01143	-8.6	
alpha-BHC	8.45	8.39 - 8.49	0.01000	0.01022	2.2	
gamma-BHC (Lindane)	9.04	8.99 - 9.09	0.01000	0.01054	5.4	
beta-BHC	9.21	9.16 - 9.26	0.01000	0.01078	7.8	
delta-BHC	9.53	9.48 - 9.58	0.01000	0.009292	-7.1	
Heptachlor	9.88	9.83 - 9.93	0.01000	0.01073	7.3	
Aldrin	10.39	10.34 - 10.44	0.01000	0.01098	9.8	
Isodrin	10.94	10.87 - 11.01	0.01000	0.009491	-5.1	
Heptachlor epoxide	11.38	11.31 - 11.45	0.01000	0.01093	9.3	
gamma-Chlordane	11.58	11.51 - 11.65	0.01000	0.01038	3.8	
alpha-Chlordane	11.79	11.71 - 11.85	0.01000	0.01097	9.7	
4,4'-DDE	11.91	11.83 - 11.97	0.02000	0.02276	13.8	
Endosulfan I	12.00	11.93 - 12.07	0.01000	0.01083	8.3	
Dieldrin	12.37	12.29 - 12.43	0.02000	0.02238	11.9	
Endrin	12.72	12.65 - 12.79	0.02000	0.02231	11.5	
4,4'-DDD	12.81	12.74 - 12.88	0.02000	0.02228	11.4	
Endosulfan II	13.06	12.99 - 13.13	0.02000	0.02240	12.0	
4,4'-DDT	13.22	13.15 - 13.29	0.02000	0.01920	-4.0	
Endrin aldehyde	13.68	13.61 - 13.75	0.02000	0.02129	6.5	

%Drift (%D) = Continuing Amount - Expected Amount divided by Expected Amount times 100

Pace Analytical Services, Inc.
Continuing Calibration Verification Summary

Data File : Q5160811.d
Injection Date : 16-MAY-2008 17:06

Compound	RT	RT Window	Expected Amount	Continuing Amount	%D	Flag
Methoxychlor	13.92	13.85 - 13.99	0.1000	0.1086	8.6	
Endosulfan sulfate	14.33	14.25 - 14.39	0.02000	0.01995	-0.2	
Endrin Ketone	14.74	14.67 - 14.81	0.02000	0.02181	9.1	
Decachlorobiphenyl	16.16	16.06 - 16.26	0.01250	0.01119	-10.5	
Average Percent Difference					8.0	

%Drift (%D) = Continuing Amount - Expected Amount divided by Expected Amount times 100

Pace Analytical Services, Inc.
Initial Calibration Linearity Summary

Start Cal Date: 16-MAY-2008 13:15
End Cal Date : 16-MAY-2008 15:27
Quant Method : ESTD
Cal Curve Type: Average CF
Integrator : Falcon
Method File : \\diana\target\6890q.i\Q51608Pest-2.b\Q51608Pest-2.m
Method : Method 8081
Sublist : INDC+.sub
Column : RTX-CLP2
Column Size : 30m L - 0.32mm ID

Calibration Files:
Level 1: //diana/target/6890q.i/Q51608Pest-2.b/Q5160804.d
Level 2: //diana/target/6890q.i/Q51608Pest-2.b/Q5160805.d
Level 3: //diana/target/6890q.i/Q51608Pest-2.b/Q5160806.d
Level 4: //diana/target/6890q.i/Q51608Pest-2.b/Q5160807.d
Level 5: //diana/target/6890q.i/Q51608Pest-2.b/Q5160808.d

Compound	Level 1	Level 2	Level 3	Level 4	Level 5	Ave CF	%RSD
44 alpha-BHC	932699000	1021065000	1064766000	1114002000	1148998000	1056306000	8.0
45 gamma-BHC (Lindane)	925989500	992795000	1008259000	1046680000	1073079000	1009361000	5.6
46 beta-BHC	428501500	420722500	390677800	387359400	395224000	404497000	4.6
47 Heptachlor	981029000	1033813000	1011595000	1029992000	1062752000	1023836000	2.9
48 delta-BHC	859758000	933530200	955886200	997413500	1045828000	958483200	7.3
49 Aldrin	890838000	931569000	931415200	980123600	1005548000	947898800	4.8
50 Heptachlor epoxide	901787000	905796500	873804000	907251200	914177500	900563200	1.7
51 gamma-Chlordane	872778000	894180200	870555800	893819800	921252900	890517300	2.3
52 alpha-Chlordane	867691000	859917200	848801400	850945500	877944900	861060000	1.4
53 Endosulfan I	819531000	839763800	813424900	832281700	836803800	828361000	1.4

Amount = Response divided by CF

CF - Calibration Factor (response divided by concentration).
RSD - Relative Standard Deviation.

SUM-110

Pace Analytical Services, Inc.
Initial Calibration Linearity Summary

Compound	Level 1	Level 2	Level 3	Level 4	Level 5	Ave CF	%RSD
54 Dieldrin	836995000	938256000	932596600	949917100	913740500	914301000	4.9
55 Endrin	685843200	730223500	747336400	753538000	775380400	738464300	4.5
56 4,4'-DDD	609365200	660080100	687806800	696421900	710485100	672831800	5.9
57 Endosulfan II	718896500	793495800	776736600	777567800	760267100	765392700	3.7
58 4,4'-DDT	810035200	858553000	879046400	859200100	845656200	850498200	3.0
59 Endrin aldehyde	619404000	648532600	619912000	627803100	638580900	630846500	2.0
60 Endosulfan sulfate	704641500	759718100	745221400	732218100	717391800	731838200	3.0
61 Methoxychlor	376510000	400287300	389553400	366517600	348011000	376175800	5.4
62 Endrin ketone	815203800	893211900	834117400	853771000	852254200	849711600	3.4
64 4,4'-DDE	768790000	775608500	797570200	816887600	843623600	800496000	3.8
66 Isodrin	873332500	874408200	867741900	880605400	898974000	879012400	1.4
1 Tetrachloro-m-xylene	642457200	657794800	626895400	655143400	667247700	649907700	2.4
11 Decachlorobiphenyl	828324400	799859600	736859400	686031600	691431800	748501400	8.5

Amount = Response divided by CF

CF - Calibration Factor (response divided by concentration).
RSD - Relative Standard Deviation.

Pace Analytical Services, Inc.
Initial Calibration Retention Time Summary

Start Cal Date: 16-MAY-2008 13:15
End Cal Date : 16-MAY-2008 15:27
Quant Method : ESTD
Cal Curve Type: Average CF
Integrator : Falcon
Method File : \\diana\target\6890q.i\Q51608Pest-2.b\Q51608Pest-2.m
Method : Method 8081
Sublist : INDC+.sub
Column : RTX-CLP2
Column Size : 30m L - 0.32mm ID

Calibration Files:
Level 1: //diana/target/6890q.i/Q51608Pest-2.b/Q5160804.d
Level 2: //diana/target/6890q.i/Q51608Pest-2.b/Q5160805.d
Level 3: //diana/target/6890q.i/Q51608Pest-2.b/Q5160806.d
Level 4: //diana/target/6890q.i/Q51608Pest-2.b/Q5160807.d
Level 5: //diana/target/6890q.i/Q51608Pest-2.b/Q5160808.d

Compound	Level 1	Level 2	Level 3	Level 4	Level 5	Ave RT
44 alpha-BHC	8.42	8.42	8.42	8.42	8.42	8.420
45 gamma-BHC (Lindane)	9.07	9.07	9.07	9.07	9.08	9.072
46 beta-BHC	9.23	9.23	9.23	9.24	9.24	9.234
47 Heptachlor	9.83	9.83	9.83	9.83	9.84	9.832
48 delta-BHC	9.73	9.73	9.73	9.74	9.74	9.734
49 Aldrin	10.36	10.36	10.36	10.36	10.37	10.362
50 Heptachlor epoxide	11.28	11.28	11.28	11.28	11.28	11.280
51 gamma-Chlordane	11.58	11.57	11.57	11.58	11.58	11.576
52 alpha-Chlordane	11.80	11.80	11.80	11.80	11.80	11.800
53 Endosulfan I	11.88	11.88	11.88	11.88	11.88	11.880

Retention times are expressed as minutes.

SUM - 112

Pace Analytical Services, Inc.
Initial Calibration Retention Time Summary

Start Cal Date: 16-MAY-2008 13:15
End Cal Date : 16-MAY-2008 15:27
Quant Method : ESTD
Cal Curve Type: Average CF
Integrator : Falcon
Method File : \\diana\target\6890q.i\Q51608Pest-2.b\Q51608Pest-2.m
Method : Method 8081
Sublist : INDC+.sub
Column : RTX-CLP2
Column Size : 30m L - 0.32mm ID

Compound	Level 1	Level 2	Level 3	Level 4	Level 5	Ave RT
54 Dieldrin	12.30	12.29	12.29	12.29	12.30	12.294
55 Endrin	12.75	12.74	12.74	12.74	12.75	12.744
56 4,4'-DDD	12.93	12.92	12.92	12.92	12.93	12.924
57 Endosulfan II	13.06	13.06	13.06	13.06	13.06	13.060
58 4,4'-DDT	13.39	13.38	13.38	13.38	13.38	13.382
59 Endrin aldehyde	13.56	13.55	13.55	13.55	13.56	13.554
60 Endosulfan sulfate	13.96	13.96	13.96	13.96	13.96	13.960
61 Methoxychlor	14.38	14.38	14.38	14.38	14.38	14.380
62 Endrin ketone	14.74	14.73	14.74	14.73	14.74	14.736
64 4,4'-DDE	12.07	12.07	12.07	12.07	12.07	12.070
66 Isodrin	10.99	10.99	10.99	10.99	11.00	10.992
1 Tetrachloro-m-xylene	7.18	7.19	7.19	7.19	7.19	7.188
11 Decachlorobiphenyl	16.55	16.55	16.55	16.55	16.55	16.550

Retention times are expressed as minutes.

Pace Analytical Services, Inc.
Initial Calibration Amounts Summary

Start Cal Date: 16-MAY-2008 13:15
End Cal Date : 16-MAY-2008 15:27
Quant Method : ESTD
Cal Curve Type: Average CF
Integrator : Falcon
Method File : \\diana\target\6890q.i\Q51608Pest-2.b\Q51608Pest-2.m
Method : Method 8081
Sublist : INDC+.sub
Column : RTX-CLP2
Column Size : 30m L - 0.32mm ID

Calibration Files:
Level 1: //diana/target/6890q.i/Q51608Pest-2.b/Q5160804.d
Level 2: //diana/target/6890q.i/Q51608Pest-2.b/Q5160805.d
Level 3: //diana/target/6890q.i/Q51608Pest-2.b/Q5160806.d
Level 4: //diana/target/6890q.i/Q51608Pest-2.b/Q5160807.d
Level 5: //diana/target/6890q.i/Q51608Pest-2.b/Q5160808.d

Compound	Level 1	Level 2	Level 3	Level 4	Level 5
44 alpha-BHC	0.00200	0.00400	0.01000	0.02000	0.04000
45 gamma-BHC (Lindane)	0.00200	0.00400	0.01000	0.02000	0.04000
46 beta-BHC	0.00200	0.00400	0.01000	0.02000	0.04000
47 Heptachlor	0.00200	0.00400	0.01000	0.02000	0.04000
48 delta-BHC	0.00200	0.00400	0.01000	0.02000	0.04000
49 Aldrin	0.00200	0.00400	0.01000	0.02000	0.04000
50 Heptachlor epoxide	0.00200	0.00400	0.01000	0.02000	0.04000
51 gamma-Chlordane	0.00200	0.00400	0.01000	0.02000	0.04000
52 alpha-Chlordane	0.00200	0.00400	0.01000	0.02000	0.04000
53 Endosulfan I	0.00200	0.00400	0.01000	0.02000	0.04000

Standard concentrations are expressed as ng.

SUM - 114

Pace Analytical Services, Inc.
Initial Calibration Amounts Summary

Start Cal Date: 16-MAY-2008 13:15
End Cal Date : 16-MAY-2008 15:27
Quant Method : ESTD
Cal Curve Type: Average CF
Integrator : Falcon
Method File : \\diana\target\6890q.i\Q51608Pest-2.b\Q51608Pest-2.m
Method : Method 8081
Sublist : INDC+.sub
Column : RTX-CLP2
Column Size : 30m L - 0.32mm ID

Compound	Level 1	Level 2	Level 3	Level 4	Level 5
54 Dieldrin	0.00400	0.00800	0.02000	0.04000	0.08000
55 Endrin	0.00400	0.00800	0.02000	0.04000	0.08000
56 4,4'-DDD	0.00400	0.00800	0.02000	0.04000	0.08000
57 Endosulfan II	0.00400	0.00800	0.02000	0.04000	0.08000
58 4,4'-DDT	0.00400	0.00800	0.02000	0.04000	0.08000
59 Endrin aldehyde	0.00400	0.00800	0.02000	0.04000	0.08000
60 Endosulfan sulfate	0.00400	0.00800	0.02000	0.04000	0.08000
61 Methoxychlor	0.02000	0.04000	0.10000	0.20000	0.40000
62 Endrin ketone	0.00400	0.00800	0.02000	0.04000	0.08000
64 4,4'-DDE	0.00400	0.00800	0.02000	0.04000	0.08000
66 Isodrin	0.00200	0.00400	0.01000	0.02000	0.04000
1 Tetrachloro-m-xylene	0.00250	0.00500	0.01250	0.02500	0.05000
11 Decachlorobiphenyl	0.00250	0.00500	0.01250	0.02500	0.05000

Standard concentrations are expressed as ng.

Pace Analytical Services, Inc.
Initial Calibration Response Summary

Start Cal Date: 16-MAY-2008 13:15
End Cal Date : 16-MAY-2008 15:27
Quant Method : ESTD
Cal Curve Type: Average CF
Integrator : Falcon
Method File : \\diana\target\6890q.i\Q51608Pest-2.b\Q51608Pest-2.m
Method : Method 8081
Sublist : INDC+.sub
Column : RTX-CLP2
Column Size : 30m L - 0.32mm ID

Calibration Files:
Level 1: //diana/target/6890q.i/Q51608Pest-2.b/Q5160804.d
Level 2: //diana/target/6890q.i/Q51608Pest-2.b/Q5160805.d
Level 3: //diana/target/6890q.i/Q51608Pest-2.b/Q5160806.d
Level 4: //diana/target/6890q.i/Q51608Pest-2.b/Q5160807.d
Level 5: //diana/target/6890q.i/Q51608Pest-2.b/Q5160808.d

Compound	Level 1	Level 2	Level 3	Level 4	Level 5
44 alpha-BHC	1865398.0	4084260.0	10647657	22280048	45959928
45 gamma-BHC (Lindane)	1851979.0	3971180.0	10082589	20933606	42923179
46 beta-BHC	857003.00	1682890.0	3906778.0	7747187.0	15808961
47 Heptachlor	1962058.0	4135252.0	10115951	20599850	42510099
48 delta-BHC	1719516.0	3734121.0	9558862.0	19948270	41833120
49 Aldrin	1781676.0	3726276.0	9314152.0	19602473	40221943
50 Heptachlor epoxide	1803574.0	3623186.0	8738040.0	18145024	36567099
51 gamma-Chlordane	1745556.0	3576721.0	8705558.0	17876396	36850115
52 alpha-Chlordane	1735382.0	3439669.0	8488014.0	17018910	35117795
53 Endosulfan I	1639062.0	3359055.0	8134249.0	16645634	33472153

Response is in Height units.

SUM - 116

Pace Analytical Services, Inc.
Initial Calibration Response Summary

Start Cal Date: 16-MAY-2008 13:15
End Cal Date : 16-MAY-2008 15:27
Quant Method : ESTD
Cal Curve Type: Average CF
Integrator : Falcon
Method File : \\diana\target\6890q.i\Q51608Pest-2.b\Q51608Pest-2.m
Method : Method 8081
Sublist : INDC+.sub
Column : RTX-CLP2
Column Size : 30m L - 0.32mm ID

Compound	Level 1	Level 2	Level 3	Level 4	Level 5
54 Dieldrin	3347980.0	7506048.0	18651931	37996685	73099237
55 Endrin	2743373.0	5841788.0	14946729	30141519	62030430
56 4,4'-DDD	2437461.0	5280641.0	13756136	27856877	56838809
57 Endosulfan II	2875586.0	6347966.0	15534732	31102710	60821368
58 4,4'-DDT	3240141.0	6868424.0	17580927	34368003	67652497
59 Endrin aldehyde	2477616.0	5188261.0	12398239	25112124	51086475
60 Endosulfan sulfate	2818566.0	6077745.0	14904428	29288724	57391345
61 Methoxychlor	7530199.0	16011491	38955344	73303526	139204400
62 Endrin ketone	3260815.0	7145695.0	16682348	34150839	68180333
64 4,4'-DDE	3075160.0	6204868.0	15951405	32675505	67489891
66 Isodrin	1746665.0	3497633.0	8677419.0	17612107	35958959
1 Tetrachloro-m-xylene	1606143.0	3288974.0	7836193.0	16378584	33362385
11 Decachlorobiphenyl	2070811.0	3999298.0	9210743.0	17150790	34571589

Response is in Height units.

Pace Analytical Services, Inc.
Initial Calibration Linearity Summary

Start Cal Date: 16-MAY-2008 16:33
End Cal Date : 16-MAY-2008 16:33
Quant Method : ESTD
Cal Curve Type: Average CF
Integrator : Falcon
Method File : \\diana\target\6890q.i\Q51608Pest-2.b\Q51608Pest-2.m
Method : Method 8081
Sublist : TOX.sub
Column : RTX-CLP2
Column Size : 30m L - 0.32mm ID

Calibration Files:
Level 1: //diana/target/6890q.i/Q51608Pest-2.b/Q5160810.d

Compound	Level 1	Ave CF	%RSD
Toxaphene-1	21611600	21611600	0.0
Toxaphene-2	16065800	16065800	0.0
Toxaphene-3	16972620	16972620	0.0
Toxaphene-4	12706060	12706060	0.0
Toxaphene-5	5837160	5837160	0.0

Amount = Response divided by CF

CF - Calibration Factor (response divided by concentration).
RSD - Relative Standard Deviation.

SUM - 118

Pace Analytical Services, Inc.
Initial Calibration Retention Time Summary

Start Cal Date: 16-MAY-2008 16:33
End Cal Date : 16-MAY-2008 16:33
Quant Method : ESTD
Cal Curve Type: Average CF
Integrator : Falcon
Method File : \\diana\target\6890q.i\Q51608Pest-2.b\Q51608Pest-2.m
Method : Method 8081
Sublist : TOX.sub
Column : RTX-CLP2
Column Size : 30m L - 0.32mm ID

Calibration Files:
Level 1: //diana/target/6890q.i/Q51608Pest-2.b/Q5160810.d

Compound	Level 1	Ave RT
Toxaphene-1	13.18	13.180
Toxaphene-2	13.57	13.570
Toxaphene-3	14.39	14.390
Toxaphene-4	14.47	14.470
Toxaphene-5	14.60	14.600

Retention times are expressed as minutes.

Pace Analytical Services, Inc.
Initial Calibration Amounts Summary

Start Cal Date: 16-MAY-2008 16:33
End Cal Date : 16-MAY-2008 16:33
Quant Method : ESTD
Cal Curve Type: Average CF
Integrator : Falcon
Method File : \\diana\target\6890q.i\Q51608Pest-2.b\Q51608Pest-2.m
Method : Method 8081
Sublist : TOX.sub
Column : RTX-CLP2
Column Size : 30m L - 0.32mm ID

Calibration Files:
Level 1: //diana/target/6890q.i/Q51608Pest-2.b/Q5160810.d

Compound	Level 1
Toxaphene-1	0.05000
Toxaphene-2	0.05000
Toxaphene-3	0.05000
Toxaphene-4	0.05000
Toxaphene-5	0.05000

Standard concentrations are expressed as ng.

Pace Analytical Services, Inc.
Initial Calibration Response Summary

Start Cal Date: 16-MAY-2008 16:33
End Cal Date : 16-MAY-2008 16:33
Quant Method : ESTD
Cal Curve Type: Average CF
Integrator : Falcon
Method File : \\diana\target\6890q.i\Q51608Pest-2.b\Q51608Pest-2.m
Method : Method 8081
Sublist : TOX.sub
Column : RTX-CLP2
Column Size : 30m L - 0.32mm ID

Calibration Files:
Level 1: //diana/target/6890q.i/Q51608Pest-2.b/Q5160810.d

Compound	Level 1
Toxaphene-1	1080580.0
Toxaphene-2	803290.00
Toxaphene-3	848631.00
Toxaphene-4	635303.00
Toxaphene-5	291858.00

Response is in Height units.

Pace Analytical Services, Inc.
Continuing Calibration Verification Summary

Data File	: //diana/target/6890q.i/Q51608Pest-2.b/Q5160811.d		
Injection Date	: 16-MAY-2008 17:06		
Sample Info	: INDC+ 2nd CCV		
Misc. Info	: Method 8081		
Laboratory ID	: INDC+ 2nd CCV	Client ID	: PX-8-43-3/4
Instrument ID	: 6890Q.i		
Method	: Q51608Pest-2.m	Sublist	: INDC+
Quantitation	: ESTD	Integrator	: Falcon
Dilution Factor	: 1.00	Sample Type	: CCALIB_5
Column	: RTX-CLP2	Column Size	: 30.00m L- 0.32mm ID

Compound	RT	RT Window	Expected Amount	Continuing Amount	%D	Flag
Tetrachloro-m-xylene	7.19	7.14 - 7.24	0.01250	0.01124	-10.1	
alpha-BHC	8.42	8.37 - 8.47	0.01000	0.01022	2.2	
gamma-BHC (Lindane)	9.07	9.02 - 9.12	0.01000	0.01033	3.3	
beta-BHC	9.23	9.18 - 9.28	0.01000	0.01056	5.6	
delta-BHC	9.73	9.68 - 9.78	0.01000	0.009288	-7.1	
Heptachlor	9.83	9.78 - 9.88	0.01000	0.01061	6.1	
Aldrin	10.36	10.32 - 10.42	0.01000	0.01082	8.2	
Isodrin	10.99	10.92 - 11.06	0.01000	0.009286	-7.1	
Heptachlor epoxide	11.28	11.21 - 11.35	0.01000	0.01077	7.7	
gamma-Chlordane	11.57	11.50 - 11.64	0.01000	0.01062	6.2	
alpha-Chlordane	11.80	11.73 - 11.87	0.01000	0.01096	9.7	
Endosulfan I	11.88	11.81 - 11.95	0.01000	0.01066	6.6	
4,4'-DDE	12.07	12.00 - 12.14	0.02000	0.02228	11.4	
Dieldrin	12.29	12.22 - 12.36	0.02000	0.02223	11.2	
Endrin	12.74	12.68 - 12.82	0.02000	0.02242	12.1	
4,4'-DDD	12.92	12.86 - 13.00	0.02000	0.02205	10.3	
Endosulfan II	13.06	12.99 - 13.13	0.02000	0.02217	10.8	
4,4'-DDT	13.38	13.31 - 13.45	0.02000	0.01896	-5.2	
Endrin aldehyde	13.55	13.48 - 13.62	0.02000	0.02175	8.8	

%Drift (%D) = Continuing Amount - Expected Amount divided by Expected Amount times 100

Pace Analytical Services, Inc.
Continuing Calibration Verification Summary

Data File : Q5160811.d
Injection Date : 16-MAY-2008 17:06

Compound	RT	RT Window	Expected Amount	Continuing Amount	%D	Flag
Endosulfan sulfate	13.96	13.89 - 14.03	0.02000	0.02007	0.4	
Methoxychlor	14.38	14.31 - 14.45	0.1000	0.1126	12.6	
Endrin ketone	14.73	14.66 - 14.80	0.02000	0.02195	9.8	
Decachlorobiphenyl	16.55	16.45 - 16.65	0.01250	0.01167	-6.7	
Average Percent Difference					7.8	

%Drift (%D) = Continuing Amount - Expected Amount divided by Expected Amount times 100

Pace Analytical Services, Inc.
BATCH SUMMARY (for databatch - \\diana\target\6890q.i\Q51608Pest-1.b)

FOLLOWS ICAL 5/16/08 GR

	Filename	Lab Sample ID	Client Sample ID	SDG	I.V.	D.F.	Inj. Date & Time
1	Q5160812.d	TT46701-006	09SS 114 0002	TT46701	1	50000	16-MAY-2008 17:39
2	Q5160813.d	TT46701-007	09SS 115 0002	TT46701	1	20000	16-MAY-2008 18:13
3	Q5160814.d	TT46701-013	09SS 121 0002	TT46701	1	20000	16-MAY-2008 18:46
4	Q5160815.d	TT46701-014	09SS 122 0002	TT46701	1	1000	16-MAY-2008 19:19
5	Q5160816.d	TT46701-015	09SS 123 0002	TT46701	1	10000	16-MAY-2008 19:52
6	Q5160817.d	INDC+ CCV (L3)	PX-8-43-6/4	CCV	2	1	16-MAY-2008 20:25

I.V. = Inj.Vol. per Column Batch Summary Ver 2.0 9-5-2002

Pace Analytical Services, Inc.
Continuing Calibration Verification Summary

Data File : //diana/target/6890q.i/Q51608Pest-1.b/Q5160817.d
Injection Date : 16-MAY-2008 20:25
Sample Info : INDC+ CCV (L3)
Misc. Info : Method 8081
Laboratory ID : INDC+ CCV (L3) Client ID : PX-8-43-6/4
Instrument ID : 6890Q.i
Method : Q51608Pest-1.m Sublist : INDC+
Quantitation : ESTD Integrator : Falcon
Dilution Factor : 1.00 Sample Type: CCALIB_5
Column : RTX-CLP Column Size: 30.00m L- 0.32mm ID

Compound	RT	RT Window	Expected Amount	Continuing Amount	%D	Flag
Tetrachloro-m-xylene	7.30	7.25 - 7.35	0.01250	0.01280	2.4	
alpha-BHC	8.44	8.39 - 8.49	0.01000	0.01047	4.7	
gamma-BHC (Lindane)	9.04	8.99 - 9.09	0.01000	0.01034	3.4	
beta-BHC	9.21	9.16 - 9.26	0.01000	0.009876	-1.2	
delta-BHC	9.52	9.48 - 9.58	0.01000	0.01032	3.2	
Heptachlor	9.88	9.83 - 9.93	0.01000	0.01020	2.0	
Aldrin	10.39	10.34 - 10.44	0.01000	0.01036	3.6	
Isodrin	10.94	10.87 - 11.01	0.01000	0.01021	2.1	
Heptachlor epoxide	11.38	11.31 - 11.45	0.01000	0.01005	0.5	
gamma-Chlordane	11.58	11.51 - 11.65	0.01000	0.009769	-2.3	
alpha-Chlordane	11.78	11.71 - 11.85	0.01000	0.009967	-0.3	
4,4'-DDE	11.91	11.83 - 11.97	0.02000	0.02050	2.5	
Endosulfan I	12.00	11.93 - 12.07	0.01000	0.01012	1.2	
Dieldrin	12.37	12.29 - 12.43	0.02000	0.02075	3.8	
Endrin	12.72	12.65 - 12.79	0.02000	0.02100	5.0	
4,4'-DDD	12.81	12.74 - 12.88	0.02000	0.02090	4.5	
Endosulfan II	13.06	12.99 - 13.13	0.02000	0.02079	4.0	
4,4'-DDT	13.22	13.15 - 13.29	0.02000	0.02008	0.4	
Endrin aldehyde	13.68	13.61 - 13.75	0.02000	0.01932	-3.4	

%Drift (%D) = Continuing Amount - Expected Amount divided by Expected Amount times 100

Pace Analytical Services, Inc.
Continuing Calibration Verification Summary

Data File : Q5160817.d
Injection Date : 16-MAY-2008 20:25

Compound	RT	RT Window	Expected Amount	Continuing Amount	%D	Flag
Methoxychlor	13.92	13.85 - 13.99	0.1000	0.1049	4.9	
Endosulfan sulfate	14.32	14.25 - 14.39	0.02000	0.02041	2.0	
Endrin Ketone	14.74	14.67 - 14.81	0.02000	0.02039	2.0	
Decachlorobiphenyl	16.15	16.06 - 16.26	0.01250	0.01147	-8.2	
Average Percent Difference					2.9	

%Drift (%D) = Continuing Amount - Expected Amount divided by Expected Amount times 100

Pace Analytical Services, Inc.
Continuing Calibration Verification Summary

Data File : //diana/target/6890q.i/Q51608Pest-2.b/Q5160817.d
Injection Date : 16-MAY-2008 20:25
Sample Info : INDC+ CCV (L3)
Misc. Info : Method 8081
Laboratory ID : INDC+ CCV (L3) Client ID : PX-8-43-6/4
Instrument ID : 6890Q.i
Method : Q51608Pest-2.m Sublist : INDC+
Quantitation : ESTD Integrator : Falcon
Dilution Factor : 1.00 Sample Type: CCALIB_5
Column : RTX-CLP2 Column Size: 30.00m L- 0.32mm ID

Compound	RT	RT Window	Expected Amount	Continuing Amount	%D	Flag
Tetrachloro-m-xylene	7.19	7.14 - 7.24	0.01250	0.01276	2.1	
alpha-BHC	8.42	8.37 - 8.47	0.01000	0.01036	3.6	
gamma-BHC (Lindane)	9.07	9.02 - 9.12	0.01000	0.01017	1.7	
beta-BHC	9.23	9.18 - 9.28	0.01000	0.009824	-1.8	
delta-BHC	9.73	9.68 - 9.78	0.01000	0.01025	2.5	
Heptachlor	9.83	9.78 - 9.88	0.01000	0.01014	1.4	
Aldrin	10.36	10.32 - 10.42	0.01000	0.01016	1.6	
Isodrin	10.99	10.92 - 11.06	0.01000	0.009932	-0.7	
Heptachlor epoxide	11.28	11.21 - 11.35	0.01000	0.009890	-1.1	
gamma-Chlordane	11.57	11.50 - 11.64	0.01000	0.009911	-0.9	
alpha-Chlordane	11.80	11.73 - 11.87	0.01000	0.009909	-0.9	
Endosulfan I	11.88	11.81 - 11.95	0.01000	0.01007	0.7	
4,4'-DDE	12.07	12.00 - 12.14	0.02000	0.02035	1.7	
Dieldrin	12.29	12.22 - 12.36	0.02000	0.02036	1.8	
Endrin	12.74	12.68 - 12.82	0.02000	0.02100	5.0	
4,4'-DDD	12.92	12.86 - 13.00	0.02000	0.02036	1.8	
Endosulfan II	13.06	12.99 - 13.13	0.02000	0.02041	2.1	
4,4'-DDT	13.38	13.31 - 13.45	0.02000	0.01959	-2.0	
Endrin aldehyde	13.55	13.48 - 13.62	0.02000	0.01980	-1.0	

%Drift (%D) = Continuing Amount - Expected Amount divided by Expected Amount times 100

Pace Analytical Services, Inc.
Continuing Calibration Verification Summary

Data File : Q5160817.d
Injection Date : 16-MAY-2008 20:25

Compound	RT	RT Window	Expected Amount	Continuing Amount	%D	Flag
Endosulfan sulfate	13.96	13.89 - 14.03	0.02000	0.02006	0.3	
Methoxychlor	14.38	14.31 - 14.45	0.1000	0.1046	4.6	
Endrin ketone	14.73	14.66 - 14.80	0.02000	0.02059	2.9	
Decachlorobiphenyl	16.54	16.45 - 16.65	0.01250	0.01220	-2.4	
Average Percent Difference					1.9	

%Drift (%D) = Continuing Amount - Expected Amount divided by Expected Amount times 100

10 A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

CLIENT SAMPLE NO.
09FD04070801RX-RX

Lab Name: Pace Analytical Services, Inc. Contract:

Run Sequence: R027909 SDG No.: TT46701

Lab Sample ID: TT46701-017RXRX Date Analyzed: 05/07/2008

Instrument ID (1): HP6890Q Instrument ID (2): HP6890Q

GC Column (1): RTX-CLP ID: 0.32 (mm) GC Column (2): RTX-CLPII ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	RPD*
			FROM	TO		
4,4'-DDT	1	13.224			9700	13.1
	2	13.374			11000	

* = RPD is calculated using unrounded numbers

10 A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

CLIENT SAMPLE NO.
09SS 109 0002

Lab Name: Pace Analytical Services, Inc.
Contract:
Run Sequence: R027267
SDG No.: TT46701
Lab Sample ID: TT46701-001
Date Analyzed: 04/15/2008
Instrument ID (1): HP6890Q
Instrument ID (2): HP6890Q
GC Column (1): RTX-CLP ID: 0.32 (mm)
GC Column (2): RTX-CLPII ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	RPD*
4,4'-DDE	1	11.965			560	4.0
	2	12.082			590	
4,4'-DDT	1	13.282			950	8.8
	2	13.402			870	

* = RPD is calculated using unrounded numbers

FORM X A

Date Printed: 5/19/2008 13:14

1C A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

CLIENT SAMPLE NO.
09SS 110 0002

Lab Name: Pace Analytical Services, Inc. Contract:

Run Sequence: R027267 SDG No.: TT46701

Lab Sample ID: TT46701-002 Date Analyzed: 04/15/2008

Instrument ID (1): HP6890Q Instrument ID (2): HP6890Q

GC Column (1): RTX-CLP ID: 0.32 (mm) GC Column (2): RTX-CLPII ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	RPD*
DIELDRIN	1	12.425			12000	2.5
	2	12.312			12000	
4,4'-DDE	1	11.958			19000	5.5
	2	12.082			20000	
4,4'-DDD	1	12.865			14000	3.7
	2	12.942			14000	
4,4'-DDT	1	13.278			21000	5.9
	2	13.402			22000	
ALPHA-CHLORDANE	1	11.838			500	3.2
	2	11.815			520	
GAMMA-CHLORDANE	1	11.635			520	70.4
	2	11.599			1100	

* = RPD is calculated using unrounded numbers

10 A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

CLIENT SAMPLE NO.
09SS 111 0002RX-RX

Lab Name: Pace Analytical Services, Inc. Contract:

Run Sequence: R027909 SDG No.: TT46701

Lab Sample ID: TT46701-003RXRX Date Analyzed: 05/07/2008

Instrument ID (1): HP6890Q Instrument ID (2): HP6890Q

GC Column (1): RTX-CLP ID: 0.32 (mm) GC Column (2): RTX-CLPII ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	RPD*
			FROM	TO		
4,4'-DDT	1	13.226			1500000	12.3
	2	13.376			1700000	

* = RPD is calculated using unrounded numbers

10 A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

CLIENT SAMPLE NO.
09SS 112 0002

Lab Name: Pace Analytical Services, Inc. Contract:

Run Sequence: R027267 SDG No.: TT46701

Lab Sample ID: TT46701-004 Date Analyzed: 04/15/2008

Instrument ID (1): HP6890Q Instrument ID (2): HP6890Q

GC Column (1): RTX-CLP ID: 0.32 (mm) GC Column (2): RTX-CLPII ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	RPD*
4,4'-DDE	1	11.958			910	3.3
	2	12.081			940	
4,4'-DDT	1	13.278			4700	0.2
	2	13.401			4700	

* = RPD is calculated using unrounded numbers

10 A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

CLIENT SAMPLE NO.
09SS 113 0002

Lab Name: Pace Analytical Services, Inc. Contract:

Run Sequence: R027267 SDG No.: TT46701

Lab Sample ID: TT46701-005 Date Analyzed: 04/15/2008

Instrument ID (1): HP6890Q Instrument ID (2): HP6890Q

GC Column (1): RTX-CLP ID: 0.32 (mm) GC Column (2): RTX-CLPII ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	RPD*
			FROM	TO		
4,4'-DDT	1	13.278			1100	4.7
	2	13.402			1200	

* = RPD is calculated using unrounded numbers

FORM X A

Date Printed: 5/19/2008 13:14

10 A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

CLIENT SAMPLE NO.
09SS 114 0002

Lab Name: Pace Analytical Services, Inc. Contract:

Run Sequence: R027267 SDG No.: TT46701

Lab Sample ID: TT46701-006 Date Analyzed: 05/16/2008

Instrument ID (1): HP6890Q Instrument ID (2): HP6890Q

GC Column (1): RTX-CLP ID: 0.32 (mm) GC Column (2): RTX-CLPII ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	RPD*
			FROM	TO		
4,4'-DDT	1	13.224			680000	0.1
	2	13.381			680000	

* = RPD is calculated using unrounded numbers

FORM X A

Date Printed: 5/19/2008 15:16

10 A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

CLIENT SAMPLE NO.
09SS 115 0002

Lab Name: Pace Analytical Services, Inc. Contract:

Run Sequence: R027267 SDG No.: TT46701

Lab Sample ID: TT46701-007 Date Analyzed: 05/16/2008

Instrument ID (1): HP6890Q Instrument ID (2): HP6890Q

GC Column (1): RTX-CLP ID: 0.32 (mm) GC Column (2): RTX-CLPII ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	RPD*
			FROM	TO		
4,4'-DDT	1	13.222			520000	2.1
	2	13.383			510000	

* = RPD is calculated using unrounded numbers

FORM X A

Date Printed: 5/19/2008 15:16

10 A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

CLIENT SAMPLE NO.
09SS 116 0002RX-RX

Lab Name: Pace Analytical Services, Inc. Contract:

Run Sequence: R027909 SDG No.: TT46701

Lab Sample ID: TT46701-008RXRX Date Analyzed: 05/07/2008

Instrument ID (1): HP6890Q Instrument ID (2): HP6890Q

GC Column (1): RTX-CLP ID: 0.32 (mm) GC Column (2): RTX-CLPII ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	RPD*
			FROM	TO		
4,4'-DDT	1	13.223			10000	12.7
	2	13.373			11000	

* = RPD is calculated using unrounded numbers

10 A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

CLIENT SAMPLE NO.
09SS 117 0002RX-RX

Lab Name: Pace Analytical Services, Inc. Contract:

Run Sequence: R027909 SDG No.: TT46701

Lab Sample ID: TT46701-009RXRX Date Analyzed: 05/06/2008

Instrument ID (1): HP6890Q Instrument ID (2): HP6890Q

GC Column (1): RTX-CLP ID: 0.32 (mm) GC Column (2): RTX-CLPII ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	RPD*
4,4'-DDE	1	11.906			14	12.0
	2	12.057			16	
4,4'-DDT	1	13.223			15	10.5
	2	13.373			16	

* = RPD is calculated using unrounded numbers

10 A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

CLIENT SAMPLE NO.
09SS 118 0002RX-RX

Lab Name: Pace Analytical Services, Inc. Contract:

Run Sequence: R027909 SDG No.: TT46701

Lab Sample ID: TT46701-010RXRX Date Analyzed: 05/06/2008

Instrument ID (1): HP6890Q Instrument ID (2): HP6890Q

GC Column (1): RTX-CLP ID: 0.32 (mm) GC Column (2): RTX-CLPII ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	RPD*
4,4'-DDE	1	11.906			83	10.2
	2	12.059			92	
4,4'-DDT	1	13.222			61	13.8
	2	13.376			70	

* = RPD is calculated using unrounded numbers

1C A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

CLIENT SAMPLE NO.
09SS 119 0002

Lab Name: Pace Analytical Services, Inc. Contract:

Run Sequence: R027267 SDG No.: TT46701

Lab Sample ID: TT46701-011 Date Analyzed: 04/15/2008

Instrument ID (1): HP6890Q Instrument ID (2): HP6890Q

GC Column (1): RTX-CLP ID: 0.32 (mm) GC Column (2): RTX-CLPII ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	RPD*
4,4'-DDE	1	11.959			3200	2.4
	2	12.083			3200	
4,4'-DDT	1	13.276			8500	3.3
	2	13.399			8800	
ALPHA-CHLORDANE	1	11.839			190	6.8
	2	11.816			210	
GAMMA-CHLORDANE	1	11.629			220	7.7
	2	11.589			200	

* = RPD is calculated using unrounded numbers

10 A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

CLIENT SAMPLE NO.
09SS 120 0002

Lab Name: Pace Analytical Services, Inc. Contract:

Run Sequence: R027267 SDG No.: TT46701

Lab Sample ID: TT46701-012 Date Analyzed: 04/15/2008

Instrument ID (1): HP6890Q Instrument ID (2): HP6890Q

GC Column (1): RTX-CLP ID: 0.32 (mm) GC Column (2): RTX-CLPII ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	RPD*
4,4'-DDE	1	11.957			2000	2.0
	2	12.081			2000	
4,4'-DDT	1	13.277			8000	6.1
	2	13.401			8500	
ALPHA-CHLORDANE	1	11.837			320	5.9
	2	11.814			340	
GAMMA-CHLORDANE	1	11.631			290	9.1
	2	11.591			320	

* = RPD is calculated using unrounded numbers

10 A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

CLIENT SAMPLE NO.
09SS 121 0002

Lab Name: Pace Analytical Services, Inc. Contract:

Run Sequence: R027267 SDG No.: TT46701

Lab Sample ID: TT46701-013 Date Analyzed: 05/16/2008

Instrument ID (1): HP6890Q Instrument ID (2): HP6890Q

GC Column (1): RTX-CLP ID: 0.32 (mm) GC Column (2): RTX-CLPII ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	RPD*
			FROM	TO		
4,4'-DDT	1	13.224			410000	0.6
	2	13.384			400000	

* = RPD is calculated using unrounded numbers

FORM X A

Date Printed: 5/19/2008 15:16

10 A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

CLIENT SAMPLE NO.
09SS 122 0002

Lab Name: Pace Analytical Services, Inc. Contract:

Run Sequence: R027267 SDG No.: TT46701

Lab Sample ID: TT46701-014 Date Analyzed: 05/16/2008

Instrument ID (1): HP6890Q Instrument ID (2): HP6890Q

GC Column (1): RTX-CLP ID: 0.32 (mm) GC Column (2): RTX-CLPII ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	RPD*
4,4'-DDE	1	11.906			5800	2.6
	2	12.066			6000	
4,4'-DDT	1	13.223			55000	0.9
	2	13.383			56000	

* = RPD is calculated using unrounded numbers

10 A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

CLIENT SAMPLE NO.
09SS 123 0002

Lab Name: Pace Analytical Services, Inc. Contract:

Run Sequence: R027267 SDG No.: TT46701

Lab Sample ID: TT46701-015 Date Analyzed: 05/16/2008

Instrument ID (1): HP6890Q Instrument ID (2): HP6890Q

GC Column (1): RTX-CLP ID: 0.32 (mm) GC Column (2): RTX-CLPII ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	RPD*
			FROM	TO		
4,4'-DDT	1	13.223			180000	0.4
	2	13.383			180000	

* = RPD is calculated using unrounded numbers

FORM X A

Date Printed: 5/19/2008 15:16

10 A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

CLIENT SAMPLE NO.
09SS 124 0002

Lab Name: Pace Analytical Services, Inc. Contract:

Run Sequence: R027267 SDG No.: TT46701

Lab Sample ID: TT46701-016 Date Analyzed: 04/15/2008

Instrument ID (1): HP6890Q Instrument ID (2): HP6890Q

GC Column (1): RTX-CLP ID: 0.32 (mm) GC Column (2): RTX-CLPII ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	RPD*
4,4'-DDE	1	11.960			10000	0.4
	2	12.083			10000	
4,4'-DDT	1	13.276			27000	6.8
	2	13.400			29000	
ALPHA-CHLORDANE	1	11.840			640	6.2
	2	11.816			680	
GAMMA-CHLORDANE	1	11.630			710	4.7
	2	11.590			750	

* = RPD is calculated using unrounded numbers

TETRA TECH NUS, INC. **CALCULATION WORKSHEET** PAGE 1 OF 1

CLIENT Navy	JOB NUMBER CTO = 467 SDG = TT46701
SUBJECT Sample Result Verification	
BASED ON Laboratory Raw Data	DRAWING NUMBER N/A
BY MDIL / CHECKED BY	APPROVED BY / DATE 6-19-08

Sample = 0955 111 0002

[4,4'-DDT] = 1,700,000 as reported by the laboratory.

Column = RTX-CLP2

4'4-DDT response from sample = 9738485

~ response from corresponding ICAL = 644970800

$$\frac{9738485}{644970800} = 0.0150 \text{ ng on-column}$$

$$\frac{0.0150 \text{ ng} \cdot 10{,}000 \text{ uL} \cdot 10{,}000 \text{ (Dilution Factor)}}{0.5 \text{ uL} \cdot 2.3 \text{ g} \cdot 0.785} = \boxed{\frac{1672667 \text{ ug}}{\text{Kg}}}$$

1

PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

09SS 111 0002RX-RX

Lab Name: Pace Analytical Services, In

Contract: N/A

SDG No.: TT46701

Run Sequence: R027909

Matrix: (SOIL/WATER) Soil

Lab Sample ID: TT46701-003RXRX

Sample wt/vol: 2.30 (g/mL) gm

Lab File ID: Q5070806.d

% Moisture: 21.5 Decanted: (Y/N) N

Date Collected: 04/07/2008

Extraction: (Type) PFEX

Date Extracted: 05/05/2008

Concentrated Extract Volume: 10000.0(uL)

Date Analyzed: 05/07/2008

Injection Volume: 0.5 (uL)

Dilution Factor: 10000.0

GPC Cleanup: (Y/N) N pH:

Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
319-84-6	ALPHA-BHC	110000	U
319-85-7	BETA-BHC	110000	U
319-86-8	DELTA-BHC	110000	U
58-89-9	GAMMA-BHC	110000	U
76-44-8	HEPTACHLOR	110000	U
309-00-2	ALDRIN	110000	U
1024-57-3	HEPTACHLOR EPOXIDE	110000	U
959-98-8	ENDOSULFAN I	110000	U
60-57-1	DIELDRIN	220000	U
72-55-9	4,4'-DDE	220000	U
72-20-8	ENDRIN	220000	U
33213-65-9	ENDOSULFAN II	220000	U
72-54-8	4,4'-DDD	220000	U
1031-07-8	ENDOSULFAN SULFATE	220000	U
50-29-3	4,4'-DDT	1700000	
72-43-5	METHOXYCHLOR	1100000	U
7421-93-4	ENDRIN ALDEHYDE	220000	U
5103-71-9	ALPHA-CHLORDANE	110000	U
53494-70-5	ENDRIN KETONE	220000	U
5103-74-2	GAMMA-CHLORDANE	110000	U
8001-35-2	TOXAPHENE	14000000	U

Comments:

10 A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

CLIENT SAMPLE NO.
09SS 111 0002RX-RX

Lab Name: Pace Analytical Services, Inc. Contract:

Run Sequence: R027909 SDG No.: TT46701

Lab Sample ID: TT46701-003RXRX Date Analyzed: 05/07/2008

Instrument ID (1): HP6890Q Instrument ID (2): HP6890Q

GC Column (1): RTX-CLP ID: 0.32 (mm) GC Column (2): RTX-CLPII ID: 0.32 (mm)

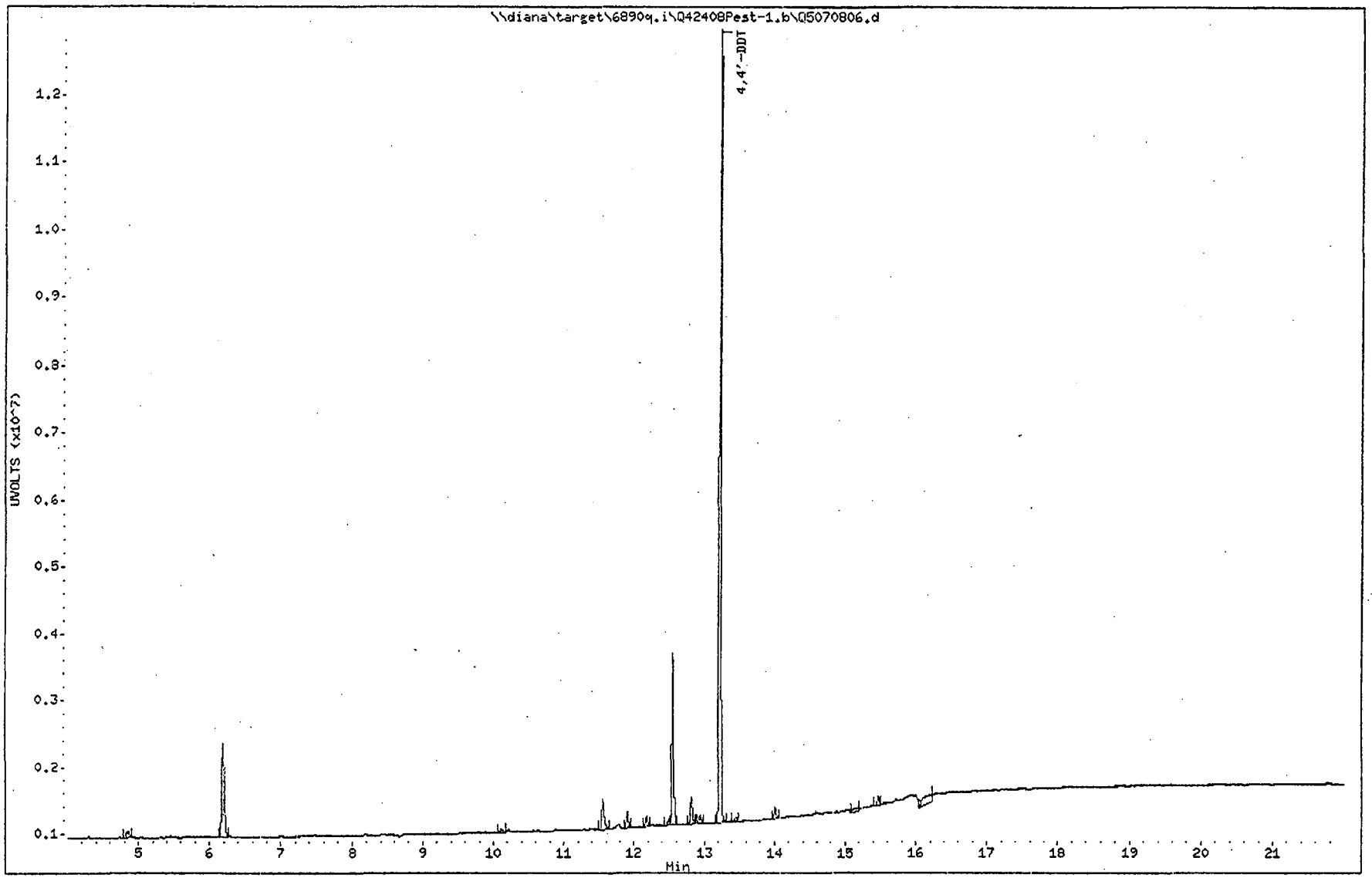
ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	RPD*
			FROM	TO		
4,4'-DDT	1	13.226			1500000	12.3
	2	13.376			1700000	

* = RPD is calculated using unrounded numbers

Data File: \\diana\target\6890q.i\Q42408Pest-1.b\Q5070806.d
Date : 07-MAY-2008 11:36
Client ID: 09SS 111 0002
Sample Info: TT46701-003RXRX
Volume Injected (uL): 0.5
Column phase: RTX-CLP

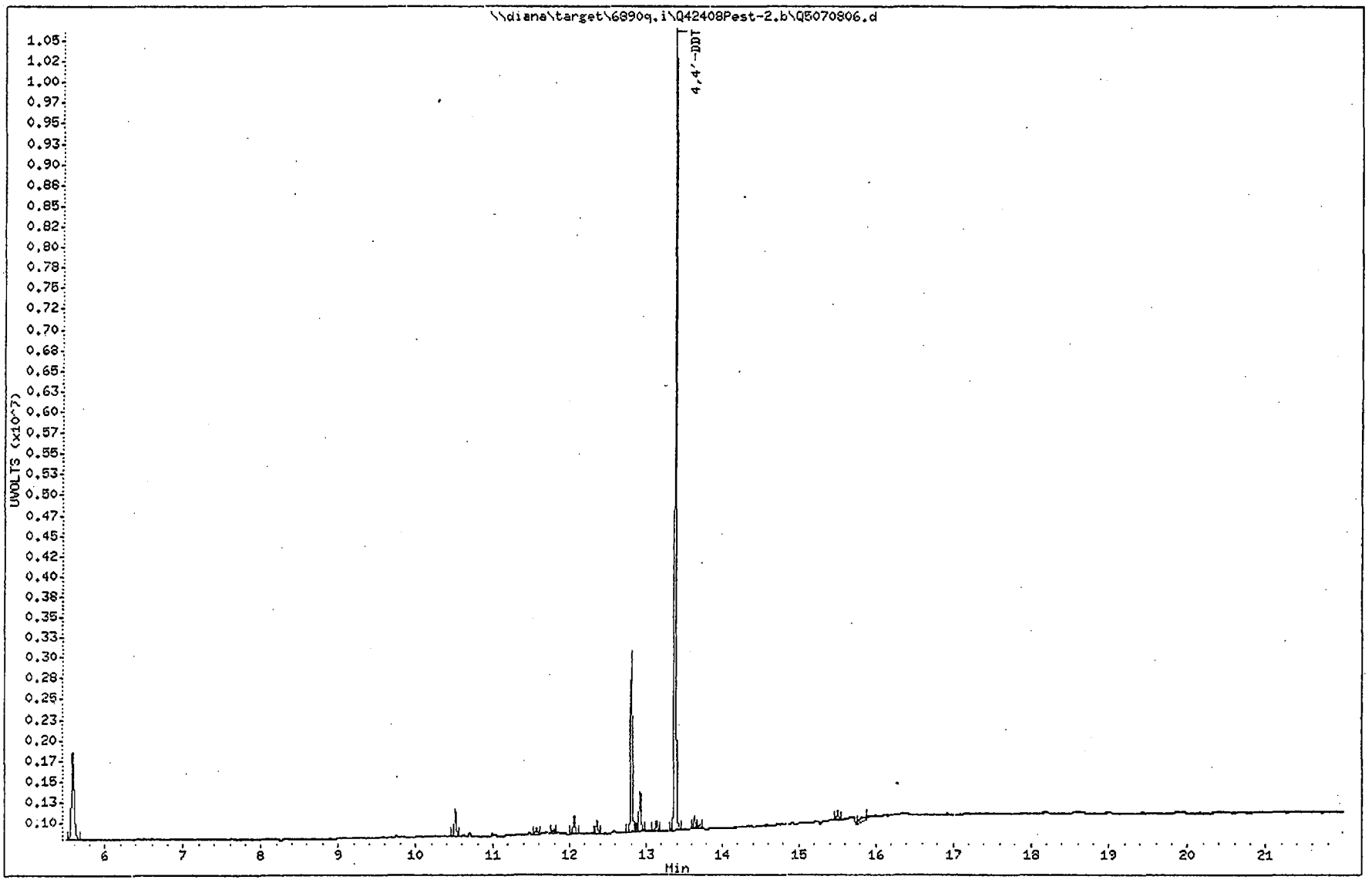
Instrument: 6890Q.i
Operator: GailR
Column diameter: 0.32

PEST - 26



Data File: \\diana\target\6890q.i\Q42408Pest-2.b\Q5070806.d
Date : 07-MAY-2008 11:36
Client ID: 09SS 111 0002
Sample Info: TT46701-003RXRX
Volume Injected (uL): 0.5
Column phase: RTX-CLP2

Instrument: 6890Q.i
Operator: GailR
Column diameter: 0.32



PEST - 27

Data File: \\diana\target\6890q.i\Q42408Pest-1.b\Q5070806.d
Report Date: 07-May-2008 14:43

Pace Analytical Services, Inc.

0.5uL RTX-CLP 30m x 0.32mm x 0.50um

Data file : \\diana\target\6890q.i\Q42408Pest-1.b\Q5070806.d
Lab Smp Id: TT46701-003RXRX Client Smp ID: 09SS 111 0002
Inj Date : 07-MAY-2008 11:36
Operator : GailR Inst ID: 6890Q.i
Smp Info : TT46701-003RXRX
Misc Info : Method 8081
Comment :
Method : \\diana\target\6890q.i\Q42408Pest-1.b\Q42408Pest-1.m
Meth Date : 07-May-2008 13:49 gailr Quant Type: ESTD
Cal Date : 24-APR-2008 15:34 Cal File: Q4240810.d
Als bottle: 1
Dil Factor: 10000.00000 Sample Compound Amounts Loaded
Integrator: Falcon Compound Sublist: 8081.sub
Target Version: 4.03 Sample Matrix: SOIL
Processing Host: TARGET01

Concentration Formula: Amt * DF * Uf * Vt*GPC/(Vi * Ws * (100 - M)/100)

Name	Value	Description
DF	10000.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)(1000 low, 2
GPC	1.000	GPC Factor
Vi	0.500	Volume injected (uL)
Ws	2.300	Weight of sample extracted (g)
M	21.500	% Moisture

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
60 4,4'-DDT					CAS #: 50-29-3		
13.226	13.243	-0.017	11815548	0.01335	1480000		

Data File: \\diana\target\6890q.i\Q42408Pest-2.b\Q5070806.d
Report Date: 07-May-2008 14:44

Pace Analytical Services, Inc.

0.5ul RTX-CLP2 30m x 0.32mm x 0.25um

Data file : \\diana\target\6890q.i\Q42408Pest-2.b\Q5070806.d
Lab Smp Id: TT46701-003RXRX Client Smp ID: 09SS 111 0002
Inj Date : 07-MAY-2008 11:36
Operator : GailR Inst ID: 6890Q.i
Smp Info : TT46701-003RXRX
Misc Info : Method 8081
Comment :
Method : \\diana\target\6890q.i\Q42408Pest-2.b\Q42408Pest-2.m
Meth Date : 07-May-2008 13:50 gailr Quant Type: ESTD
Cal Date : 24-APR-2008 15:34 Cal File: Q4240810.d
Als bottle: 1
Dil Factor: 10000.00000 Sample Compound Amounts Loaded
Integrator: Falcon Compound Sublist: 8081.sub
Target Version: 4.03 Sample Matrix: SOIL
Processing Host: TARGET01

Concentration Formula: Amt * DF * Uf * Vt*GPC/(Vi * Ws * (100 - M)/100)

Name	Value	Description
DF	10000.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)(1000 low, 2
GPC	1.000	GPC Factor
Vi	0.500	Volume injected (uL)
Ws	2.300	Weight of sample extracted (g)
M	21.500	% Moisture

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
58 4,4'-DDT					CAS #: 50-29-3		
13.376	13.376	0.000	9738485	0.01510	1670000		

NSWC CRANE
SOIL DATA
TT46701

FRACTION	CHEMICAL	09FD04070801	UNITS	09SS112.0002	RPD	D
PEST/PCB	4,4'-DDE	2,600 ~~ND~~ U	UG/KG	940	NC	NC
PEST/PCB	4,4'-DDT	11000 J	UG/KG	4700	80.25	6300.00

OK

Current RPD Quality Control Limit: 50 %.
Shaded cells indicate RPDs that exceed the applicable quality control limit.
ND = Compound not detected.
NC = Statistic not calculated

Tetra Tech NUS **INTERNAL CORRESPONDENCE**

TO:	**R. BASINSKI**	**DATE:**	**JUNE 30, 2008**
FROM:	**MATTHEW D. KRAUS**	**COPIES:**	**DV FILE**

SUBJECT: **ORGANIC DATA VALIDATION – PESTICIDES (PEST)**
NSWC CRANE – CTO 467
SAMPLE DELIVERY GROUP (SDG) – TT46702

SAMPLES: 13/Soil/

09SS 125 0002	09SS 126 0002	09SS 127 0002
09SS 128 0002	09SS 130 0002	09SS 131 0002
09SS 132 0002	09SS 133 0002	09SS 134 0002
09SS 136 0002	09SS 137 0002	09SS 138 0002
09SS 139 0002		

Overview

The sample set for NSWC Crane, CTO 467, SDG TT46702, consists of thirteen soil environmental samples. All samples were analyzed for pesticides (PEST). The samples were collected by Tetra Tech NUS, Inc. on April 8, 2008 and analyzed by Pace Analytical Services, Inc. Pesticide analyses were conducted in accordance with SW 846 method 8081A and gas chromatography / electron capture detector (GC/ECD) instrumentation and methodologies.

Data were evaluated based on the following parameters:

* • Data Completeness
• Holding Times
* • Initial and Continuing Calibration Recoveries
* • Laboratory Method/Preparation Blank Analyses
* • Surrogate Recoveries
• Matrix Spike Recoveries
* • Laboratory Control Sample Recoveries
* • Detection Limits
* • Compound Quantitation

* - All quality control criteria were met for this parameter.

Holding Times

All samples in this SDG were originally extracted and analyzed within the proper holding times; however, the laboratory re-extracted all samples up to 14 days beyond the 14 day holding time for sample extraction. The laboratory case narrative claims that all samples were reanalyzed due to extremely high pesticide concentrations in most of the samples as indicated by the initial analysis results. All compound results were qualified as estimated, "J" or "UJ", respectively.

Matrix Spike Recoveries

The matrix spike (MS) and matrix spike duplicate (MSD) analyses of sample 09SS 139 0002 yielded percent recoveries (%Rs) greater then the upper quality control limits for 4,4'-DDE and 4,4'-DDT. The positive 4,4'-DDE and 4,4'-DDT results reported for sample 09SS 139 002 were qualified as estimated, "J".

Notes

Several compounds were qualified as estimated, "J", due to uncertainty near the detection limit.

The relative percent difference (RPD) of heptachlor epoxide results reported from columns RTX-CLP (column 1) and RTX-CLP2 (column 2) were greater than the upper quality control limit for sample 09SS 125 0002. The positive heptachlor epoxide result reported for sample 09SS 125 0002 was qualified as estimated, "J".

The laboratory reported the higher of the analyte detections from column 1 or 2 for any given sample.

The laboratory did not provide percent breakdown information for 4,4'-DDT and Endrin from the Performance Evaluation Mixtures (PEMs).

All sample extracts except for the extract from sample 09SS 132 0002 were analyzed at a dilution due to extremely high pesticides concentrations as stated in the laboratory case narrative. Non-detected compound results were reported at elevated detection limits due to the sample extract dilutions. The following list summarizes the dilution factor of each sample in this SDG as reported on the laboratory Form 1 reports:

Dilution Factor	Sample ID
1X	09SS 132 0002
2X	09SS 139 0002
10X	09SS 136 0002, 09SS 138 0002
20X	09SS 128 0002, 09SS 134 0002
40X	09SS 125 0002
100X	09SS 130 0002
400X	09SS 131 0002
1,000X	09SS 127 0002
10,000X	09SS 126 0002, 09SS 137 0002
20,000X	09SS 133 0002

According to the laboratory case narrative all samples in this SDG were re-analyzed and re-prepared using a modified sonication technique to avoid contamination of laboratory glassware and equipment because screened pesticides concentrations were extremely high.

The continuing calibration verification (CCV) analyzed on 05/06/08 at 10:35 yielded a percent difference (%D) of 15.5% which is outside of the quality control limit (± 15%) for alpha-BHC on column RTX-CLP2 (column 2). No data was qualified because the affected alpha-BHC sample results were reported as non-detected and %D on column RTX-CLP (column 1) for the same CCV was within quality control limits.

The CCV analyzed on column 1 at 17:11 on 05/06/08 yielded %Ds beyond the quality control limit (± 15%) for the compounds 4,4'-DDT, endrin aldehyde and methoxychlor affecting samples 09SS 128 0002, 09SS 132 0002, 09SS 136 0002 and 09SS 139 0002. The %Ds for those compounds on column 2 were within quality control limits. The positive 4,4'-DDT results reported for the affected samples were not qualified because those results were reported from column 2. The non-

detected results reported for endrin aldehyde and methoxychlor were not qualified because the %Ds for those compounds were compliant on column 2.

The CCV analyzed on column 2 at 21:03 on 05/06/08 yielded %Ds beyond the quality control limit (± 15%) for the compounds alpha-BHC, gamma-BHC, and heptachlor. No data was qualified because the corresponding %Ds on column 1 were within quality control limits for those compounds and all of the compounds were reported as non-detected in affected samples.

The CCV analyzed on column 1 at 13:15 on 05/07/08 yielded %Ds beyond the quality control limit (± 15%) for the compounds 4,4'-DDT, endrin aldehyde, and methoxychlor affecting sample 09SS 138 0002. The positive 4,4'-DDT result reported for the affected sample was not qualified because that result was reported from column 2. The non-detected results reported for endrin aldehyde and methoxychlor were not qualified because the %Ds for those compounds were compliant on column 2.

Both surrogates were diluted out of samples 09SS 137 0002, 09SS 133 0002, 09SS 131 0002, 09SS 130 0002, 09SS 127 0002, 09SS 126 0002 and 09SS 125 0002. No validation action was required.

Executive Summary

Laboratory Performance: All compound results were qualified as estimated due to holding time exceedance.

Other Factors Affecting Data Quality: The compounds 4,4'-DDE and 4,4'-DDT were qualified due to matrix spike noncompliance. Several compounds were qualified due to uncertainty near the detection limit. Heptachlor epoxide was qualified due to a noncompliant percent difference between columns for sample 09SS 125 0002.

The data for these analyses were reviewed with reference to the "National Functional Guidelines for Organic Data Review", October 1999, and the Department of Defense Quality Systems Manuel (DoD QSM).

The text of this report has been formulated to address only those problem areas affecting data quality.

"I attest that the data referenced herein were validated according to the agreed upon validation criteria as specified in the DoD QSM and the Quality Assurance Project Plan (QAPP)."

Tetra Tech NUS
Matthew D. Kraus
Environmental Chemist

Tetra Tech NUS
Joseph A. Samchuck
Quality Assurance Officer

Attachments:

1. Appendix A - Qualified Analytical Results
2. Appendix B - Results as reported by the Laboratory
3. Appendix C - Support Documentation

APPENDIX A

QUALIFIED ANALYTICAL RESULTS

Data Validation Qualifier Codes:

A	= Lab Blank Contamination
B	= Field Blank Contamination
C	= Calibration Noncompliance (e.g. %RSDs, %Ds, ICVs, CCVs, RRFs, etc.)
C01	= GC/MS Tuning Noncompliance
D	= MS/MSD Recovery Noncompliance
E	= LCS/LCSD Recovery Noncompliance
F	= Laboratory Duplicate Imprecision
G	= Field Duplicate Imprecision
H	= Holding Time Exceedance
I	= ICP Serial Dilution Noncompliance
J	= GFAA PDS – GFAA MSA's r <0.995 / ICP PDS Recovery Noncompliance
K	= IPC Interference – included ICS %R Noncompliance
L	= Instrument Calibration Range Exceedance
M	= Sample Preservation Noncompliance
N	= Internal Standard Noncompliance
N01	= Internal Standard Recovery Noncompliance Dioxins
N02	= Recovery Standard Noncompliance Dioxins
N03	= Clean-up Standard Noncompliance Dioxins
O	= Poor Instrument Performance (e.g. base-line drifting)
P	= Uncertainty near detection limit (< 2 x IDL for inorganics and < CRDL for organics)
Q	= Other problems (can encompass a number of issues; e.g. chromatography, interferences, etc.)
R	= Surrogate Recovery Noncompliance
S	= Pesticide/PCB Resolution
T	= % Breakdown Noncompliance for DDT and Endrin
U	= % Difference between columns/detectors > 25% for positive results determined via GC/HPLC
V	= Non-linear calibrations; correlation coefficient r < 0.995
W	= EMPC result
X	= Signal to noise response drop
Y	= Percent solids <30%
Z	= Uncertainty at 2 sigma deviation is greater than sample activity

PROJ_NO: 01019

SDG: TT46702 MEDIA: SOIL DATA FRACTION: PEST/PCB

nsample	09SS 125 0002	nsample	09SS 126 0002	nsample	09SS 127 0002
samp_date	4/8/2008 12:50:00 PM	samp_date	4/8/2008 12:59:00 PM	samp_date	4/8/2008 1:15:00 PM
lab_id	TT46702-001	lab_id	TT46702-002	lab_id	TT46702-003
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/KG	units	UG/KG	units	UG/KG
Pct_Solids	74.3	Pct_Solids	75.8	Pct_Solids	82.0
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	1000	UJ	H
4,4'-DDE	1300	J	PH
4,4'-DDT	5600	J	H
ALDRIN	490	UJ	H
ALPHA-BHC	490	UJ	H
ALPHA-CHLORDANE	15000	J	H
BETA-BHC	490	UJ	H
DELTA-BHC	490	UJ	H
DIELDRIN	1000	UJ	H
ENDOSULFAN I	490	UJ	H
ENDOSULFAN II	1000	UJ	H
ENDOSULFAN SULFATE	1000	UJ	H
ENDRIN	1000	UJ	H
ENDRIN ALDEHYDE	1000	UJ	H
ENDRIN KETONE	1000	UJ	H
GAMMA-BHC (LINDANE)	590	J	PH
GAMMA-CHLORDANE	15000	J	H
HEPTACHLOR	490	UJ	H
HEPTACHLOR EPOXIDE	720	J	PHU
METHOXYCHLOR	4900	UJ	H
TOXAPHENE	64000	UJ	H

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	250000	UJ	H
4,4'-DDE	250000	UJ	H
4,4'-DDT	860000	J	H
ALDRIN	120000	UJ	H
ALPHA-BHC	120000	UJ	H
ALPHA-CHLORDANE	120000	UJ	H
BETA-BHC	120000	UJ	H
DELTA-BHC	120000	UJ	H
DIELDRIN	250000	UJ	H
ENDOSULFAN I	120000	UJ	H
ENDOSULFAN II	250000	UJ	H
ENDOSULFAN SULFATE	250000	UJ	H
ENDRIN	250000	UJ	H
ENDRIN ALDEHYDE	250000	UJ	H
ENDRIN KETONE	250000	UJ	H
GAMMA-BHC (LINDANE)	120000	UJ	H
GAMMA-CHLORDANE	120000	UJ	H
HEPTACHLOR	120000	UJ	H
HEPTACHLOR EPOXIDE	120000	UJ	H
METHOXYCHLOR	1200000	UJ	H
TOXAPHENE	16000000	UJ	H

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	23000	UJ	H
4,4'-DDE	23000	UJ	H
4,4'-DDT	97000	J	H
ALDRIN	11000	UJ	H
ALPHA-BHC	11000	UJ	H
ALPHA-CHLORDANE	35000	J	H
BETA-BHC	11000	UJ	H
DELTA-BHC	11000	UJ	H
DIELDRIN	23000	UJ	H
ENDOSULFAN I	11000	UJ	H
ENDOSULFAN II	23000	UJ	H
ENDOSULFAN SULFATE	23000	UJ	H
ENDRIN	23000	UJ	H
ENDRIN ALDEHYDE	23000	UJ	H
ENDRIN KETONE	23000	UJ	H
GAMMA-BHC (LINDANE)	11000	UJ	H
GAMMA-CHLORDANE	36000	J	H
HEPTACHLOR	11000	UJ	H
HEPTACHLOR EPOXIDE	11000	UJ	H
METHOXYCHLOR	110000	UJ	H
TOXAPHENE	1400000	UJ	H

PROJ_NO: 01019

SDG: TT46702 MEDIA: SOIL DATA FRACTION: PEST/PCB

nsample	09SS 128 0002	nsample	09SS 130 0002	nsample	09SS 131 0002
samp_date	4/8/2008 1:20:00 PM	samp_date	4/8/2008 2:33:00 PM	samp_date	4/8/2008 1:25:00 PM
lab_id	TT46702-004RX	lab_id	TT46702-006	lab_id	TT46702-007
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/KG	units	UG/KG	units	UG/KG
Pct_Solids	87.3	Pct_Solids	79.0	Pct_Solids	79.3
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	390	UJ	H
4,4'-DDE	1600	J	H
4,4'-DDT	3000	J	H
ALDRIN	190	UJ	H
ALPHA-BHC	190	UJ	H
ALPHA-CHLORDANE	190	UJ	H
BETA-BHC	190	UJ	H
DELTA-BHC	190	UJ	H
DIELDRIN	390	UJ	H
ENDOSULFAN I	190	UJ	H
ENDOSULFAN II	390	UJ	H
ENDOSULFAN SULFATE	390	UJ	H
ENDRIN	390	UJ	H
ENDRIN ALDEHYDE	390	UJ	H
ENDRIN KETONE	390	UJ	H
GAMMA-BHC (LINDANE)	190	UJ	H
GAMMA-CHLORDANE	190	UJ	H
HEPTACHLOR	190	UJ	H
HEPTACHLOR EPOXIDE	190	UJ	H
METHOXYCHLOR	1900	UJ	H
TOXAPHENE	24000	UJ	H

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	2200	UJ	H
4,4'-DDE	2300	J	PH
4,4'-DDT	21000	J	H
ALDRIN	1100	UJ	H
ALPHA-BHC	1100	UJ	H
ALPHA-CHLORDANE	1600	J	PH
BETA-BHC	1100	UJ	H
DELTA-BHC	1100	UJ	H
DIELDRIN	2200	UJ	H
ENDOSULFAN I	1100	UJ	H
ENDOSULFAN II	2200	UJ	H
ENDOSULFAN SULFATE	2200	UJ	H
ENDRIN	2200	UJ	H
ENDRIN ALDEHYDE	2200	UJ	H
ENDRIN KETONE	2200	UJ	H
GAMMA-BHC (LINDANE)	1100	UJ	H
GAMMA-CHLORDANE	1500	J	PH
HEPTACHLOR	1100	UJ	H
HEPTACHLOR EPOXIDE	1100	UJ	H
METHOXYCHLOR	11000	UJ	H
TOXAPHENE	140000	UJ	H

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	9000	UJ	H
4,4'-DDE	9000	UJ	H
4,4'-DDT	32000	J	H
ALDRIN	4300	UJ	H
ALPHA-BHC	4300	UJ	H
ALPHA-CHLORDANE	39000	J	H
BETA-BHC	4300	UJ	H
DELTA-BHC	4300	UJ	H
DIELDRIN	9000	UJ	H
ENDOSULFAN I	4300	UJ	H
ENDOSULFAN II	9000	UJ	H
ENDOSULFAN SULFATE	9000	UJ	H
ENDRIN	9000	UJ	H
ENDRIN ALDEHYDE	9000	UJ	H
ENDRIN KETONE	9000	UJ	H
GAMMA-BHC (LINDANE)	4300	UJ	H
GAMMA-CHLORDANE	41000	J	H
HEPTACHLOR	4300	UJ	H
HEPTACHLOR EPOXIDE	4300	UJ	H
METHOXYCHLOR	43000	UJ	H
TOXAPHENE	560000	UJ	H

PROJ_NO: 01019

SDG: TT46702 MEDIA: SOIL DATA FRACTION: PEST/PCB

nsample	09SS 132 0002	nsample	09SS 133 0002	nsample	09SS 134 0002
samp_date	4/8/2008 5:20:00 PM	samp_date	4/8/2008 1:35:00 PM	samp_date	4/8/2008 1:45:00 PM
lab_id	TT46702-008RX	lab_id	TT46702-009	lab_id	TT46702-010RX
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/KG	units	UG/KG	units	UG/KG
Pct_Solids	88.6	Pct_Solids	74.0	Pct_Solids	77.0
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	3.0	UJ	H
4,4'-DDE	5.2	J	PH
4,4'-DDT	21	J	H
ALDRIN	1.4	UJ	H
ALPHA-BHC	1.4	UJ	H
ALPHA-CHLORDANE	1.4	UJ	H
BETA-BHC	1.4	UJ	H
DELTA-BHC	1.4	UJ	H
DIELDRIN	3.0	UJ	H
ENDOSULFAN I	1.4	UJ	H
ENDOSULFAN II	3.0	UJ	H
ENDOSULFAN SULFATE	3.0	UJ	H
ENDRIN	3.0	UJ	H
ENDRIN ALDEHYDE	3.0	UJ	H
ENDRIN KETONE	3.0	UJ	H
GAMMA-BHC (LINDANE)	1.4	UJ	H
GAMMA-CHLORDANE	1.4	UJ	H
HEPTACHLOR	1.4	UJ	H
HEPTACHLOR EPOXIDE	1.4	UJ	H
METHOXYCHLOR	14	UJ	H
TOXAPHENE	190	UJ	H

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	510000	UJ	H
4,4'-DDE	510000	UJ	H
4,4'-DDT	10000000	J	H
ALDRIN	240000	UJ	H
ALPHA-BHC	240000	UJ	H
ALPHA-CHLORDANE	240000	UJ	H
BETA-BHC	240000	UJ	H
DELTA-BHC	240000	UJ	H
DIELDRIN	510000	UJ	H
ENDOSULFAN I	240000	UJ	H
ENDOSULFAN II	510000	UJ	H
ENDOSULFAN SULFATE	510000	UJ	H
ENDRIN	510000	UJ	H
ENDRIN ALDEHYDE	510000	UJ	H
ENDRIN KETONE	510000	UJ	H
GAMMA-BHC (LINDANE)	240000	UJ	H
GAMMA-CHLORDANE	240000	UJ	H
HEPTACHLOR	240000	UJ	H
HEPTACHLOR EPOXIDE	240000	UJ	H
METHOXYCHLOR	2400000	UJ	H
TOXAPHENE	32000000	UJ	H

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	69	UJ	H
4,4'-DDE	370	J	H
4,4'-DDT	330	J	H
ALDRIN	33	UJ	H
ALPHA-BHC	33	UJ	H
ALPHA-CHLORDANE	33	UJ	H
BETA-BHC	33	UJ	H
DELTA-BHC	33	UJ	H
DIELDRIN	69	UJ	H
ENDOSULFAN I	33	UJ	H
ENDOSULFAN II	69	UJ	H
ENDOSULFAN SULFATE	69	UJ	H
ENDRIN	69	UJ	H
ENDRIN ALDEHYDE	69	UJ	H
ENDRIN KETONE	69	UJ	H
GAMMA-BHC (LINDANE)	33	UJ	H
GAMMA-CHLORDANE	33	UJ	H
HEPTACHLOR	33	UJ	H
HEPTACHLOR EPOXIDE	33	UJ	H
METHOXYCHLOR	330	UJ	H
TOXAPHENE	4400	UJ	H

PROJ_NO: 01019

SDG: TT46702 MEDIA: SOIL DATA FRACTION: PEST/PCB

nsample	09SS 136 0002	nsample	09SS 137 0002	nsample	09SS 138 0002
samp_date	4/8/2008 2:47:00 PM	samp_date	4/8/2008 3:00:00 PM	samp_date	4/8/2008 11:00:00 AM
lab_id	TT46702-012RX	lab_id	TT46702-013	lab_id	TT46702-014RX
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/KG	units	UG/KG	units	UG/KG
Pct_Solids	73.5	Pct_Solids	78.8	Pct_Solids	73.0
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	240	UJ	H
4,4'-DDE	240	UJ	H
4,4'-DDT	2100	J	H
ALDRIN	120	UJ	H
ALPHA-BHC	120	UJ	H
ALPHA-CHLORDANE	120	UJ	H
BETA-BHC	120	UJ	H
DELTA-BHC	120	UJ	H
DIELDRIN	240	UJ	H
ENDOSULFAN I	120	UJ	H
ENDOSULFAN II	240	UJ	H
ENDOSULFAN SULFATE	240	UJ	H
ENDRIN	240	UJ	H
ENDRIN ALDEHYDE	240	UJ	H
ENDRIN KETONE	240	UJ	H
GAMMA-BHC (LINDANE)	120	UJ	H
GAMMA-CHLORDANE	120	UJ	H
HEPTACHLOR	120	UJ	H
HEPTACHLOR EPOXIDE	120	UJ	H
METHOXYCHLOR	1200	UJ	H
TOXAPHENE	15000	UJ	H

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	480000	J	H
4,4'-DDE	220000	UJ	H
4,4'-DDT	1800000	J	H
ALDRIN	110000	UJ	H
ALPHA-BHC	110000	UJ	H
ALPHA-CHLORDANE	140000	J	PH
BETA-BHC	110000	UJ	H
DELTA-BHC	110000	UJ	H
DIELDRIN	220000	UJ	H
ENDOSULFAN I	110000	UJ	H
ENDOSULFAN II	220000	UJ	H
ENDOSULFAN SULFATE	220000	UJ	H
ENDRIN	220000	UJ	H
ENDRIN ALDEHYDE	220000	UJ	H
ENDRIN KETONE	220000	UJ	H
GAMMA-BHC (LINDANE)	110000	UJ	H
GAMMA-CHLORDANE	170000	J	PH
HEPTACHLOR	110000	UJ	H
HEPTACHLOR EPOXIDE	110000	UJ	H
METHOXYCHLOR	1100000	UJ	H
TOXAPHENE	14000000	UJ	H

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	36	UJ	H
4,4'-DDE	91	J	H
4,4'-DDT	150	J	H
ALDRIN	18	UJ	H
ALPHA-BHC	18	UJ	H
ALPHA-CHLORDANE	18	UJ	H
BETA-BHC	18	UJ	H
DELTA-BHC	18	UJ	H
DIELDRIN	36	UJ	H
ENDOSULFAN I	18	UJ	H
ENDOSULFAN II	36	UJ	H
ENDOSULFAN SULFATE	36	UJ	H
ENDRIN	36	UJ	H
ENDRIN ALDEHYDE	36	UJ	H
ENDRIN KETONE	36	UJ	H
GAMMA-BHC (LINDANE)	18	UJ	H
GAMMA-CHLORDANE	18	UJ	H
HEPTACHLOR	18	UJ	H
HEPTACHLOR EPOXIDE	18	UJ	H
METHOXYCHLOR	180	UJ	H
TOXAPHENE	2300	UJ	H

PROJ_NO: 01019

SDG: TT46702 MEDIA: SOIL DATA FRACTION: PEST/PCB

nsample	09SS 139 0002
samp_date	4/8/2008 11:05:00 AM
lab_id	TT46702-015RX
qc_type	NM
units	UG/KG
Pct_Solids	88.8
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	39	UJ	H
4,4'-DDE	510	J	DH
4,4'-DDT	1100	J	DH
ALDRIN	19	UJ	H
ALPHA-BHC	19	UJ	H
ALPHA-CHLORDANE	99	J	H
BETA-BHC	19	UJ	H
DELTA-BHC	19	UJ	H
DIELDRIN	39	UJ	H
ENDOSULFAN I	19	UJ	H
ENDOSULFAN II	39	UJ	H
ENDOSULFAN SULFATE	39	UJ	H
ENDRIN	39	UJ	H
ENDRIN ALDEHYDE	39	UJ	H
ENDRIN KETONE	39	UJ	H
GAMMA-BHC (LINDANE)	19	UJ	H
GAMMA-CHLORDANE	92	J	H
HEPTACHLOR	19	UJ	H
HEPTACHLOR EPOXIDE	19	UJ	H
METHOXYCHLOR	190	UJ	H
TOXAPHENE	2400	UJ	H

APPENDIX B

RESULTS AS REPORTED BY THE LABORATORY

PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

09SS 125 0002

Lab Name: Pace Analytical Services, In

Contract: N/A

SDG No.: TT46702

Run Sequence: R027799

Matrix: (SOIL/WATER) Soil

Lab Sample ID: TT46702-001

Sample wt/vol: 2.14 (g/mL) gm

Lab File ID: Q5020807.d

% Moisture: 25.7 Decanted: (Y/N) N

Date Collected: 04/08/2008

Extraction: (Type) PFEX

Date Extracted: 05/01/2008

Concentrated Extract Volume: 10000.0(uL)

Date Analyzed: 05/02/2008

Injection Volume: 0.5 (uL)

Dilution Factor: 40.0

GPC Cleanup: (Y/N) N pH:

Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
319-84-6	ALPHA-BHC	490	U
319-85-7	BETA-BHC	490	U
319-86-8	DELTA-BHC	490	U
58-89-9	GAMMA-BHC	590	J
76-44-8	HEPTACHLOR	490	U
309-00-2	ALDRIN	490	U
1024-57-3	HEPTACHLOR EPOXIDE	720	J
959-98-8	ENDOSULFAN I	490	U
60-57-1	DIELDRIN	1000	U
72-55-9	4,4'-DDE	1300	J
72-20-8	ENDRIN	1000	U
33213-65-9	ENDOSULFAN II	1000	U
72-54-8	4,4'-DDD	1000	U
1031-07-8	ENDOSULFAN SULFATE	1000	U
50-29-3	4,4'-DDT	5600	
72-43-5	METHOXYCHLOR	4900	U
7421-93-4	ENDRIN ALDEHYDE	1000	U
5103-71-9	ALPHA-CHLORDANE	15000	
53494-70-5	ENDRIN KETONE	1000	U
5103-74-2	GAMMA-CHLORDANE	15000	
8001-35-2	TOXAPHENE	64000	U

Comments:

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FORM I PEST

SUM-9

1

PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

09SS 126 0002

Lab Name: Pace Analytical Services, In

Contract: N/A

SDG No.: TT46702

Run Sequence: R027799

Matrix: (SOIL/WATER) Soil

Lab Sample ID: TT46702-002

Sample wt/vol: 2.16 (g/mL) gm

Lab File ID: Q5020808.d

% Moisture: 24.2 Decanted: (Y/N) N

Date Collected: 04/08/2008

Extraction: (Type) PFEX

Date Extracted: 05/01/2008

Concentrated Extract Volume: 10000.0(uL)

Date Analyzed: 05/02/2008

Injection Volume: 0.5 (uL)

Dilution Factor: 10000.0

GPC Cleanup: (Y/N) N pH:

Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
319-84-6	ALPHA-BHC	120000	U
319-85-7	BETA-BHC	120000	U
319-86-8	DELTA-BHC	120000	U
58-89-9	GAMMA-BHC	120000	U
76-44-8	HEPTACHLOR	120000	U
309-00-2	ALDRIN	120000	U
1024-57-3	HEPTACHLOR EPOXIDE	120000	U
959-98-8	ENDOSULFAN I	120000	U
60-57-1	DIELDRIN	250000	U
72-55-9	4,4'-DDE	250000	U
72-20-8	ENDRIN	250000	U
33213-65-9	ENDOSULFAN II	250000	U
72-54-8	4,4'-DDD	250000	U
1031-07-8	ENDOSULFAN SULFATE	250000	U
50-29-3	4,4'-DDT	860000	
72-43-5	METHOXYCHLOR	1200000	U
7421-93-4	ENDRIN ALDEHYDE	250000	U
5103-71-9	ALPHA-CHLORDANE	120000	U
53494-70-5	ENDRIN KETONE	250000	U
5103-74-2	GAMMA-CHLORDANE	120000	U
8001-35-2	TOXAPHENE	16000000	U

Comments:

PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

09SS 127 0002

Lab Name: Pace Analytical Services, In

Contract: N/A

SDG No.: TT46702

Run Sequence: R027799

Matrix: (SOIL/WATER) Soil

Lab Sample ID: TT46702-003

Sample wt/vol: 2.18 (g/mL) gm

Lab File ID: Q5020809.d

% Moisture: 18.0 Decanted: (Y/N) N

Date Collected: 04/08/2008

Extraction: (Type) PFEX

Date Extracted: 05/01/2008

Concentrated Extract Volume: 10000.0(uL)

Date Analyzed: 05/02/2008

Injection Volume: 0.5 (uL)

Dilution Factor: 1000.0

GPC Cleanup: (Y/N) N pH:

Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
319-84-6	ALPHA-BHC	11000	U
319-85-7	BETA-BHC	11000	U
319-86-8	DELTA-BHC	11000	U
58-89-9	GAMMA-BHC	11000	U
76-44-8	HEPTACHLOR	11000	U
309-00-2	ALDRIN	11000	U
1024-57-3	HEPTACHLOR EPOXIDE	11000	U
959-98-8	ENDOSULFAN I	11000	U
60-57-1	DIELDRIN	23000	U
72-55-9	4,4'-DDE	23000	U
72-20-8	ENDRIN	23000	U
33213-65-9	ENDOSULFAN II	23000	U
72-54-8	4,4'-DDD	23000	U
1031-07-8	ENDOSULFAN SULFATE	23000	U
50-29-3	4,4'-DDT	97000	
72-43-5	METHOXYCHLOR	110000	U
7421-93-4	ENDRIN ALDEHYDE	23000	U
5103-71-9	ALPHA-CHLORDANE	35000	
53494-70-5	ENDRIN KETONE	23000	U
5103-74-2	GAMMA-CHLORDANE	36000	
8001-35-2	TOXAPHENE	1400000	U

Comments:

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FORM I PEST

SUM - 13

1

PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

09SS 128 0002RX

Lab Name: Pace Analytical Services, In

Contract: N/A

SDG No.: TT46702

Run Sequence: R027909

Matrix: (SOIL/WATER) Soil

Lab Sample ID: TT46702-004RX

Sample wt/vol: 2.40 (g/mL) gm

Lab File ID: Q5060807.d

% Moisture: 12.7 Decanted: (Y/N) N

Date Collected: 04/08/2008

Extraction: (Type) PFEX

Date Extracted: 05/05/2008

Concentrated Extract Volume: 10000.0(uL)

Date Analyzed: 05/06/2008

Injection Volume: 0.5 (uL)

Dilution Factor: 20.0

GPC Cleanup: (Y/N) N pH:

Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
319-84-6	ALPHA-BHC	190	U
319-85-7	BETA-BHC	190	U
319-86-8	DELTA-BHC	190	U
58-89-9	GAMMA-BHC	190	U
76-44-8	HEPTACHLOR	190	U
309-00-2	ALDRIN	190	U
1024-57-3	HEPTACHLOR EPOXIDE	190	U
959-98-8	ENDOSULFAN I	190	U
60-57-1	DIELDRIN	390	U
72-55-9	4,4'-DDE	1600	
72-20-8	ENDRIN	390	U
33213-65-9	ENDOSULFAN II	390	U
72-54-8	4,4'-DDD	390	U
1031-07-8	ENDOSULFAN SULFATE	390	U
50-29-3	4,4'-DDT	3000	
72-43-5	METHOXYCHLOR	1900	U
7421-93-4	ENDRIN ALDEHYDE	390	U
5103-71-9	ALPHA-CHLORDANE	190	U
53494-70-5	ENDRIN KETONE	390	U
5103-74-2	GAMMA-CHLORDANE	190	U
8001-35-2	TOXAPHENE	24000	U

Comments:

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FORM I PEST

SUM - 15

PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

09SS 130 0002

Lab Name: Pace Analytical Services, In

Contract: N/A

SDG No.: TT46702

Run Sequence: R027799

Matrix: (SOIL/WATER) Soil

Lab Sample ID: TT46702-006

Sample wt/vol: 2.29 (g/mL) gm

Lab File ID: Q5020810.d

% Moisture: 21.0 Decanted: (Y/N) N

Date Collected: 04/08/2008

Extraction: (Type) PFEX

Date Extracted: 05/01/2008

Concentrated Extract Volume: 10000.0(uL)

Date Analyzed: 05/02/2008

Injection Volume: 0.5 (uL)

Dilution Factor: 100.0

GPC Cleanup: (Y/N) N pH:

Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
319-84-6	ALPHA-BHC	1100	U
319-85-7	BETA-BHC	1100	U
319-86-8	DELTA-BHC	1100	U
58-89-9	GAMMA-BHC	1100	U
76-44-8	HEPTACHLOR	1100	U
309-00-2	ALDRIN	1100	U
1024-57-3	HEPTACHLOR EPOXIDE	1100	U
959-98-8	ENDOSULFAN I	1100	U
60-57-1	DIELDRIN	2200	U
72-55-9	4,4'-DDE	2300	J
72-20-8	ENDRIN	2200	U
33213-65-9	ENDOSULFAN II	2200	U
72-54-8	4,4'-DDD	2200	U
1031-07-8	ENDOSULFAN SULFATE	2200	U
50-29-3	4,4'-DDT	21000	
72-43-5	METHOXYCHLOR	11000	U
7421-93-4	ENDRIN ALDEHYDE	2200	U
5103-71-9	ALPHA-CHLORDANE	1600	J
53494-70-5	ENDRIN KETONE	2200	U
5103-74-2	GAMMA-CHLORDANE	1500	J
8001-35-2	TOXAPHENE	140000	U

Comments:

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FORM I PEST

SUM - 17

1

PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

09SS 131 0002

Lab Name: Pace Analytical Services, In

Contract: N/A

SDG No.: TT46702

Run Sequence: R027799

Matrix: (SOIL/WATER) Soil

Lab Sample ID: TT46702-007

Sample wt/vol: 2.28 (g/mL) gm

Lab File ID: Q5020812.d

% Moisture: 20.7 Decanted: (Y/N) N

Date Collected: 04/08/2008

Extraction: (Type) PFEX

Date Extracted: 05/01/2008

Concentrated Extract Volume: 10000.0(uL)

Date Analyzed: 05/02/2008

Injection Volume: 0.5 (uL)

Dilution Factor: 400.0

GPC Cleanup: (Y/N) N pH:

Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
319-84-6	ALPHA-BHC	4300	U
319-85-7	BETA-BHC	4300	U
319-86-8	DELTA-BHC	4300	U
58-89-9	GAMMA-BHC	4300	U
76-44-8	HEPTACHLOR	4300	U
309-00-2	ALDRIN	4300	U
1024-57-3	HEPTACHLOR EPOXIDE	4300	U
959-98-8	ENDOSULFAN I	4300	U
60-57-1	DIELDRIN	9000	U
72-55-9	4,4'-DDE	9000	U
72-20-8	ENDRIN	9000	U
33213-65-9	ENDOSULFAN II	9000	U
72-54-8	4,4'-DDD	9000	U
1031-07-8	ENDOSULFAN SULFATE	9000	U
50-29-3	4,4'-DDT	32000	
72-43-5	METHOXYCHLOR	43000	U
7421-93-4	ENDRIN ALDEHYDE	9000	U
5103-71-9	ALPHA-CHLORDANE	39000	
53494-70-5	ENDRIN KETONE	9000	U
5103-74-2	GAMMA-CHLORDANE	41000	
8001-35-2	TOXAPHENE	560000	U

Comments:

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FORM I PEST

SUM - 19

1

PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

09SS 132 0002RX

Lab Name: Pace Analytical Services, In

Contract: N/A

SDG No.: TT46702

Run Sequence: R027909

Matrix: (SOIL/WATER) Soil

Lab Sample ID: TT46702-008RX

Sample wt/vol: 15.29 (g/mL) gm

Lab File ID: Q5060808.d

% Moisture: 11.4 Decanted: (Y/N) N

Date Collected: 04/08/2008

Extraction: (Type) PFEX

Date Extracted: 05/05/2008

Concentrated Extract Volume: 10000.0(uL)

Date Analyzed: 05/06/2008

Injection Volume: 0.5 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
319-84-6	ALPHA-BHC	1.4	U
319-85-7	BETA-BHC	1.4	U
319-86-8	DELTA-BHC	1.4	U
58-89-9	GAMMA-BHC	1.4	U
76-44-8	HEPTACHLOR	1.4	U
309-00-2	ALDRIN	1.4	U
1024-57-3	HEPTACHLOR EPOXIDE	1.4	U
959-98-8	ENDOSULFAN I	1.4	U
60-57-1	DIELDRIN	3.0	U
72-55-9	4,4'-DDE	5.2	J
72-20-8	ENDRIN	3.0	U
33213-65-9	ENDOSULFAN II	3.0	U
72-54-8	4,4'-DDD	3.0	U
1031-07-8	ENDOSULFAN SULFATE	3.0	U
50-29-3	4,4'-DDT	21	
72-43-5	METHOXYCHLOR	14	U
7421-93-4	ENDRIN ALDEHYDE	3.0	U
5103-71-9	ALPHA-CHLORDANE	1.4	U
53494-70-5	ENDRIN KETONE	3.0	U
5103-74-2	GAMMA-CHLORDANE	1.4	U
8001-35-2	TOXAPHENE	190	U

Comments:

1

PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

09SS 133 0002

Lab Name: Pace Analytical Services, In

Contract: N/A

SDG No.: TT46702

Run Sequence: R027799

Matrix: (SOIL/WATER) Soil

Lab Sample ID: TT46702-009

Sample wt/vol: 2.16 (g/mL) gm

Lab File ID: Q5020813.d

% Moisture: 26.0 Decanted: (Y/N) N

Date Collected: 04/08/2008

Extraction: (Type) PFEX

Date Extracted: 05/01/2008

Concentrated Extract Volume: 10000.0(uL)

Date Analyzed: 05/02/2008

Injection Volume: 0.5 (uL)

Dilution Factor: 20000.0

GPC Cleanup: (Y/N) N pH:

Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
319-84-6	ALPHA-BHC	240000	U
319-85-7	BETA-BHC	240000	U
319-86-8	DELTA-BHC	240000	U
58-89-9	GAMMA-BHC	240000	U
76-44-8	HEPTACHLOR	240000	U
309-00-2	ALDRIN	240000	U
1024-57-3	HEPTACHLOR EPOXIDE	240000	U
959-98-8	ENDOSULFAN I	240000	U
60-57-1	DIELDRIN	510000	U
72-55-9	4,4'-DDE	510000	U
72-20-8	ENDRIN	510000	U
33213-65-9	ENDOSULFAN II	510000	U
72-54-8	4,4'-DDD	510000	U
1031-07-8	ENDOSULFAN SULFATE	510000	U
50-29-3	4,4'-DDT	10000000	
72-43-5	METHOXYCHLOR	2400000	U
7421-93-4	ENDRIN ALDEHYDE	510000	U
5103-71-9	ALPHA-CHLORDANE	240000	U
53494-70-5	ENDRIN KETONE	510000	U
5103-74-2	GAMMA-CHLORDANE	240000	U
8001-35-2	TOXAPHENE	32000000	U

Comments:

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FORM I PEST

SUM - 23

1

PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

09SS 134 0002RX

Lab Name: Pace Analytical Services, In

Contract: N/A

SDG No.: TT46702

Run Sequence: R027909

Matrix: (SOIL/WATER) Soil

Lab Sample ID: TT46702-010RX

Sample wt/vol: 15.19 (g/mL) gm

Lab File ID: Q5060821.d

% Moisture: 23.0 Decanted: (Y/N) N

Date Collected: 04/08/2008

Extraction: (Type) PFEX

Date Extracted: 05/05/2008

Concentrated Extract Volume: 10000.0(uL)

Date Analyzed: 05/06/2008

Injection Volume: 0.5 (uL)

Dilution Factor: 20.0

GPC Cleanup: (Y/N) N pH:

Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
319-84-6	ALPHA-BHC	33	U
319-85-7	BETA-BHC	33	U
319-86-8	DELTA-BHC	33	U
58-89-9	GAMMA-BHC	33	U
76-44-8	HEPTACHLOR	33	U
309-00-2	ALDRIN	33	U
1024-57-3	HEPTACHLOR EPOXIDE	33	U
959-98-8	ENDOSULFAN I	33	U
60-57-1	DIELDRIN	69	U
72-55-9	4,4'-DDE	370	
72-20-8	ENDRIN	69	U
33213-65-9	ENDOSULFAN II	69	U
72-54-8	4,4'-DDD	69	U
1031-07-8	ENDOSULFAN SULFATE	69	U
50-29-3	4,4'-DDT	330	
72-43-5	METHOXYCHLOR	330	U
7421-93-4	ENDRIN ALDEHYDE	69	U
5103-71-9	ALPHA-CHLORDANE	33	U
53494-70-5	ENDRIN KETONE	69	U
5103-74-2	GAMMA-CHLORDANE	33	U
8001-35-2	TOXAPHENE	4400	U

Comments:

1

PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

09SS 136 0002RX

Lab Name: Pace Analytical Services, In

Contract: N/A

SDG No.: TT46702

Run Sequence: R027909

Matrix: (SOIL/WATER) Soil

Lab Sample ID: TT46702-012RX

Sample wt/vol: 2.26 (g/mL) gm

Lab File ID: Q5060810.d

% Moisture: 26.5 Decanted: (Y/N) N

Date Collected: 04/06/2008

Extraction: (Type) PFEX

Date Extracted: 05/05/2008

Concentrated Extract Volume: 10000.0(uL)

Date Analyzed: 05/06/2008

Injection Volume: 0.5 (uL)

Dilution Factor: 10.0

GPC Cleanup: (Y/N) N pH:

Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
319-84-6	ALPHA-BHC	120	U
319-85-7	BETA-BHC	120	U
319-86-8	DELTA-BHC	120	U
58-89-9	GAMMA-BHC	120	U
76-44-8	HEPTACHLOR	120	U
309-00-2	ALDRIN	120	U
1024-57-3	HEPTACHLOR EPOXIDE	120	U
959-98-8	ENDOSULFAN I	120	U
60-57-1	DIELDRIN	240	U
72-55-9	4,4'-DDE	240	U
72-20-8	ENDRIN	240	U
33213-65-9	ENDOSULFAN II	240	U
72-54-8	4,4'-DDD	240	U
1031-07-8	ENDOSULFAN SULFATE	240	U
50-29-3	4,4'-DDT	2100	
72-43-5	METHOXYCHLOR	1200	U
7421-93-4	ENDRIN ALDEHYDE	240	U
5103-71-9	ALPHA-CHLORDANE	120	U
53494-70-5	ENDRIN KETONE	240	U
5103-74-2	GAMMA-CHLORDANE	120	U
8001-35-2	TOXAPHENE	15000	U

Comments:

1

PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

09SS 137 0002

Lab Name: Pace Analytical Services, In

Contract: N/A

SDG No.: TT46702

Run Sequence: R027799

Matrix: (SOIL/WATER) Soil

Lab Sample ID: TT46702-013

Sample wt/vol: 2.32 (g/mL) gm

Lab File ID: Q5020814.d

% Moisture: 21.2 Decanted: (Y/N) N

Date Collected: 04/08/2008

Extraction: (Type) PFEX

Date Extracted: 05/01/2008

Concentrated Extract Volume: 10000.0(uL)

Date Analyzed: 05/02/2008

Injection Volume: 0.5 (uL)

Dilution Factor: 10000.0

GPC Cleanup: (Y/N) N pH:

Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
319-84-6	ALPHA-BHC	110000	U
319-85-7	BETA-BHC	110000	U
319-86-8	DELTA-BHC	110000	U
58-89-9	GAMMA-BHC	110000	U
76-44-8	HEPTACHLOR	110000	U
309-00-2	ALDRIN	110000	U
1024-57-3	HEPTACHLOR EPOXIDE	110000	U
959-98-8	ENDOSULFAN I	110000	U
60-57-1	DIELDRIN	220000	U
72-55-9	4,4'-DDE	220000	U
72-20-8	ENDRIN	220000	U
33213-65-9	ENDOSULFAN II	220000	U
72-54-8	4,4'-DDD	480000	
1031-07-8	ENDOSULFAN SULFATE	220000	U
50-29-3	4,4'-DDT	1800000	
72-43-5	METHOXYCHLOR	1100000	U
7421-93-4	ENDRIN ALDEHYDE	220000	U
5103-71-9	ALPHA-CHLORDANE	140000	J
53494-70-5	ENDRIN KETONE	220000	U
5103-74-2	GAMMA-CHLORDANE	170000	J
8001-35-2	TOXAPHENE	14000000	U

Comments:

1

PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

09SS 138 0002RX

Lab Name: Pace Analytical Services, In

Contract: N/A

SDG No.: TT46702

Run Sequence: R027909

Matrix: (SOIL/WATER) Soil

Lab Sample ID: TT46702-014RX

Sample wt/vol: 15.21 (g/mL) gm

Lab File ID: Q5070805.d

% Moisture: 27.0 Decanted: (Y/N) N

Date Collected: 04/08/2008

Extraction: (Type) PFEX

Date Extracted: 05/05/2008

Concentrated Extract Volume: 10000.0(uL)

Date Analyzed: 05/07/2008

Injection Volume: 0.5 (uL)

Dilution Factor: 10.0

GPC Cleanup: (Y/N) N pH:

Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
319-84-6	ALPHA-BHC	18	U
319-85-7	BETA-BHC	18	U
319-86-8	DELTA-BHC	18	U
58-89-9	GAMMA-BHC	18	U
76-44-8	HEPTACHLOR	18	U
309-00-2	ALDRIN	18	U
1024-57-3	HEPTACHLOR EPOXIDE	18	U
959-98-8	ENDOSULFAN I	18	U
60-57-1	DIELDRIN	36	U
72-55-9	4,4'-DDE	91	
72-20-8	ENDRIN	36	U
33213-65-9	ENDOSULFAN II	36	U
72-54-8	4,4'-DDD	36	U
1031-07-8	ENDOSULFAN SULFATE	36	U
50-29-3	4,4'-DDT	150	
72-43-5	METHOXYCHLOR	180	U
7421-93-4	ENDRIN ALDEHYDE	36	U
5103-71-9	ALPHA-CHLORDANE	18	U
53494-70-5	ENDRIN KETONE	36	U
5103-74-2	GAMMA-CHLORDANE	18	U
8001-35-2	TOXAPHENE	2300	U

Comments:

1

PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

09SS 139 0002RX

Lab Name: Pace Analytical Services, In

Contract: N/A

SDG No.: TT46702

Run Sequence: R027909

Matrix: (SOIL/WATER) Soil

Lab Sample ID: TT46702-015RX

Sample wt/vol: 2.35 (g/mL) gm

Lab File ID: Q5060812.d

% Moisture: 11.2 Decanted: (Y/N) N

Date Collected: 04/08/2008

Extraction: (Type) PFEX

Date Extracted: 05/05/2008

Concentrated Extract Volume: 10000.0(uL)

Date Analyzed: 05/06/2008

Injection Volume: 0.5 (uL)

Dilution Factor: 2.0

GPC Cleanup: (Y/N) N pH:

Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
319-84-6	ALPHA-BHC	19	U
319-85-7	BETA-BHC	19	U
319-86-8	DELTA-BHC	19	U
58-89-9	GAMMA-BHC	19	U
76-44-8	HEPTACHLOR	19	U
309-00-2	ALDRIN	19	U
1024-57-3	HEPTACHLOR EPOXIDE	19	U
959-98-8	ENDOSULFAN I	19	U
60-57-1	DIELDRIN	39	U
72-55-9	4,4'-DDE	510	
72-20-8	ENDRIN	39	U
33213-65-9	ENDOSULFAN II	39	U
72-54-8	4,4'-DDD	39	U
1031-07-8	ENDOSULFAN SULFATE	39	U
50-29-3	4,4'-DDT	1100	
72-43-5	METHOXYCHLOR	190	U
7421-93-4	ENDRIN ALDEHYDE	39	U
5103-71-9	ALPHA-CHLORDANE	99	
53494-70-5	ENDRIN KETONE	39	U
5103-74-2	GAMMA-CHLORDANE	92	
8001-35-2	TOXAPHENE	2400	U

Comments:

APPENDIX C

SUPPORT DOCUMENTATION

HOLDTIME

SDG TT46702

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
PEST	UG/KG	09SS 139 0002	TT46702-015RX	NM	4/8/2008	5/5/2008	5/6/2008	27.16	1.029	28.19
PEST	UG/KG	09SS 138 0002	TT46702-014RX	NM	4/8/2008	5/5/2008	5/7/2008	27.16	1.842	29.00
PEST	UG/KG	09SS 137 0002	TT46702-013	NM	4/8/2008	5/1/2008	5/2/2008	23.06	1.085	24.15
PEST	UG/KG	09SS 136 0002	TT46702-012RX	NM	4/8/2008	5/5/2008	5/6/2008	27.00	0.983	27.99
PEST	UG/KG	09SS 134 0002	TT46702-010RX	NM	4/8/2008	5/5/2008	5/6/2008	27.05	1.236	28.28
PEST	UG/KG	09SS 133 0002	TT46702-009	NM	4/8/2008	5/1/2008	5/2/2008	23.12	1.062	24.18
PEST	UG/KG	09SS 132 0002	TT46702-008RX	NM	4/8/2008	5/5/2008	5/6/2008	26.9	0.938	27.83
PEST	UG/KG	09SS 131 0002	TT46702-007	NM	4/8/2008	5/1/2008	5/2/2008	23.13	1.039	24.17
PEST	UG/KG	09SS 130 0002	TT46702-006	NM	4/8/2008	5/1/2008	5/2/2008	23.08	0.993	24.07
PEST	UG/KG	09SS 128 0002	TT46702-004RX	NM	4/8/2008	5/5/2008	5/6/2008	27.06	0.915	27.98
PEST	UG/KG	09SS 127 0002	TT46702-003	NM	4/8/2008	5/1/2008	5/2/2008	23.14	0.970	24.11
PEST	UG/KG	09SS 126 0002	TT46702-002	NM	4/8/2008	5/1/2008	5/2/2008	23.15	0.947	24.09
PEST	UG/KG	09SS 125 0002	TT46702-001	NM	4/8/2008	5/1/2008	5/2/2008	23.15	0.913	24.07

~~TT46702 TT02003~~ 4/10/08

TETRA TECH NUS, INC. TT46702 CHAIN OF CUSTODY | NUMBER 0191 | PAGE 2 OF 3

PROJECT NO:	FACILITY:	PROJECT MANAGER	PHONE NUMBER	LABORATORY NAME AND CONTACT:
112G01019	WSWC Cross	S. Ruffing	4129218989	Pace / Hugh Prentice
SAMPLERS (SIGNATURE)		FIELD OPERATIONS LEADER	PHONE NUMBER	ADDRESS
[signature]		J. Goerdt	4129218425	940 So Harney St
		CARRIER/WAYBILL NUMBER		CITY, STATE
		Fed Ex/8616583158 75		Seattle, WA

STANDARD TAT ☐ (if not noted)
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☒ 72 hr. ☐ 7 day ☐ 14 day

CONTAINER TYPE PLASTIC (P) or GLASS (G): G
PRESERVATIVE USED: 4°C

	DATE (MMDD) YEAR 2008	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAB (G) COMP (C)	No. OF CONTAINERS	TYPE OF ANALYSIS: Pesticides 8082								COMMENTS
14	4/8	1040	09551220002	122	0	2	SO	G	1	1								72 hr.
15	4/8	1046	09551230002	123					1	1								72 hr.
16	4/8	1052	09551240002	124					3	3								72 hr. MS/MSD
1	4/8	1250	09551250002	125					1	1								Hold
2	4/8	1259	09551260002	126					1	1								Hold
3	4/8	1315	09551270002	127					1	1								Hold
4	4/8	1320	09551280002	128					1	1								Hold
5	4/8	1425	09551290002	129					1	1								Hold
6	4/8	1433	09551300002	130					1	1								Hold
7	4/8	1325	09551310002	131					1	1								Hold
8	4/8	1720	09551320002	132					1	1								Hold
9	4/8	1335	09551330002	133					1	1								Hold
10	4/8	1345	09551340002	134					1	1								Hold

	DATE	TIME		DATE	TIME
1. RELINQUISHED BY: J. Goerdt	4-9-08	1000	1. RECEIVED BY		
2. RELINQUISHED BY			2. RECEIVED BY		
3. RELINQUISHED BY			3. RECEIVED BY [signature]	4-10-08	1020

COMMENTS: See Pg. 1 comments.

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

4/02R
FORM NO. TINUS-001

~~TT46701~~ ~~TT02003~~ 4/10/08

TETRA TECH NUS, INC. TT46702 CHAIN OF CUSTODY | NUMBER 0192 | PAGE 3 OF 3

10

PROJECT NO:	FACILITY:	PROJECT MANAGER	PHONE NUMBER	LABORATORY NAME AND CONTACT:
112G01019	NSWC Crane	S. Ruffing	4129215989	Pace - Hugh Prentice
SAMPLERS (SIGNATURE)		FIELD OPERATIONS LEADER	PHONE NUMBER	ADDRESS
[signature]		J. Goerdt	4129215245	940 So Harney St
		CARRIER/WAYBILL NUMBER		CITY, STATE
		FedEx/8616583158 75		Seattle, WA

STANDARD TAT ☐
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☒ 72 hr. ☐ 7 day ☐ 14 day
Pl. see notes

CONTAINER TYPE PLASTIC (P) or GLASS (G): G
PRESERVATIVE USED: 4°C

TYPE OF ANALYSIS: Pesticides SW 8081A

	DATE YEAR 2008	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAB (G) COMP (C)	No. OF CONTAINERS		COMMENTS
11	4/8	1440	0955135 0002	135	0	2	SO	G	1	1	Hold
12	4/8	1447	0955 136 0002	136	↓	↓	↓	↓	1	1	Hold
13	4/8	1500	0955 137 0002	137	↓	↓	↓	↓	1	1	Hold
14	4/8	1100	0955 138 0002	138	↓	↓	↓	↓	1	1	Hold
15	4/8	1105	0955 139 0002	139	↓	↓	↓	↓	1	1	Hold
JW 4/10/08	4/7	0000	09FD040708 01	QC	↓	↓	↓	↓	1	1	[illegible]
16	4/8	0000	09FD040808 01	QC	↓	↓	↓	↓	1	1	Hold
17	4/8	1800	09RB040808	QC	NA	NA	QC	↓	1	1	

1. RELINQUISHED BY	DATE	TIME	1. RECEIVED BY	DATE	TIME
J. Goerdt	4-9-08	1500	[signature]	4-10-08	900
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS: See pg. 1 comments

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

4/02R
FORM NO. TINUS-001

QC Outlier Report: Holding Times

Lab Report Batch: TT46702 **Lab ID:** PACE

					Actual Holding Time			Criteria				Reported Dates (and Times)		
Client Sample ID	Lab Sample ID	Analysis Method	Matrix	Prep Method	Coll To Prep	Prep To Ana	Coll To Ana	Coll To Prep	Prep To Ana	Coll To Ana	Unit of Meas	Collection Date	Preparation Date	Analysis Date
09SS 125 0002	TT46702-001	8081A	SO	3545	23.0	1.0		14	40		Days	04/08/2008	05/01/2008	05/02/2008
09SS 126 0002	TT46702-002	8081A	SO	3545	23.0	1.0		14	40		Days	04/08/2008	05/01/2008	05/02/2008
09SS 127 0002	TT46702-003	8081A	SO	3545	23.0	1.0		14	40		Days	04/08/2008	05/01/2008	05/02/2008
09SS 128 0002	TT46702-004RX	8081A	SO	3545	27.0	1.0		14	40		Days	04/08/2008	05/05/2008	05/06/2008
09SS 130 0002	TT46702-006	8081A	SO	3545	23.0	1.0		14	40		Days	04/08/2008	05/01/2008	05/02/2008
09SS 131 0002	TT46702-007	8081A	SO	3545	23.0	1.0		14	40		Days	04/08/2008	05/01/2008	05/02/2008
09SS 132 0002	TT46702-008RX	8081A	SO	3545	27.0	1.0		14	40		Days	04/08/2008	05/05/2008	05/06/2008
09SS 133 0002	TT46702-009	8081A	SO	3545	23.0	1.0		14	40		Days	04/08/2008	05/01/2008	05/02/2008
09SS 134 0002	TT46702-010RX	8081A	SO	3545	27.0	1.0		14	40		Days	04/08/2008	05/05/2008	05/06/2008
09SS 136 0002	TT46702-012RX	8081A	SO	3545	27.0	1.0		14	40		Days	04/08/2008	05/05/2008	05/06/2008
09SS 137 0002	TT46702-013	8081A	SO	3545	23.0	1.0		14	40		Days	04/08/2008	05/01/2008	05/02/2008
09SS 138 0002	TT46702-014RX	8081A	SO	3545	27.0	2.0		14	40		Days	04/08/2008	05/05/2008	05/07/2008
09SS 139 0002	TT46702-015RX	8081A	SO	3545	27.0	1.0		14	40		Days	04/08/2008	05/05/2008	05/06/2008
09SS 139 0002MS	TT46702-015MS	8081A	SO	3545	27.0	1.0		14	40		Days	04/08/2008	05/05/2008	05/06/2008
		8081A	SO	3545	27.0	1.0		14	40		Days	04/08/2008	05/05/2008	05/06/2008
09SS 139 0002MSD	TT46702-015MSD	8081A	SO	3545	27.0	1.0		14	40		Days	04/08/2008	05/05/2008	05/06/2008
		8081A	SO	3545	27.0	1.0		14	40		Days	04/08/2008	05/05/2008	05/06/2008

Reporting Limits Outlier Report

Lab Report Batch: TT46702 **Lab ID:** PACE

Client Sample ID	Lab Sample ID	Analysis	Matrix	Analyte Name	Lab Qual	Result	Reporting	Units
09SS 125 0002	TT46702-001	8081A	SO	4,4'-DDE	J	1300	2,742.54	ug/kg
				GAMMA-BHC (LINDANE)	J	590	1,320.48	ug/kg
				HEPTACHLOR EPOXIDE	J	720	1,320.48	ug/kg
09SS 130 0002	TT46702-006			4,4'-DDE	J	2300	5,667.55	ug/kg
				ALPHA-CHLORDANE	J	1600	2,728.82	ug/kg
				GAMMA-CHLORDANE	J	1500	2,728.82	ug/kg
09SS 132 0002	TT46702-008RX			4,4'-DDE	J	5.2	6.75	ug/kg
09SS 137 0002	TT46702-013			ALPHA-CHLORDANE	J	140000	270,722.40	ug/kg
				GAMMA-CHLORDANE	J	170000	270,722.40	ug/kg

Cooler Receipt Form
Pace Analytical Services, Inc.

SDG: TT46702 Taken By: Client

Cooler: aad584 Transferred: Client

COC #:

Project: CTO 0467 NSWC Crane (Tetra Tech NUS, Inc.)

Date samples were received at the laboratory: **4/10/2008**

Date cooler was opened: **4/10/2008 9:00AM**

A. PRELIMINARY EXAMINATION PHASE:

1. Did cooler come with a shipping slip (airbill, etc.)? ..... YES
   if YES, record carrier name and airbill number: **Fed/Ex 861658315875**
2. Were custody seals unbroken and intact at the date and time of arrival? ..... INTACT
   Date On Custody Seal: **4/9/2008** Custody Seals Description: **1 front, 1 back**
3. Were custody papers sealed in a plastic bag and taped inside to the lid? ..... YES
4. Did you screen samples for radioactivity using the Geiger Counter? ..... NO
5. Were custody papers filled out properly (ink, signed, etc.)? ..... YES
6. Did you sign custody papers in the appropriate place? ..... YES
7. If required, was enough cooling material present? ..... YES
8. Have designated person initial here to acknowledge receipt of cooler: JM

B. LOG-IN PHASE: Date samples were logged-in: **4/10/2008 9:00AM**

Logged-in by Jennifer Millsap (sign)

9. Describe type of packing in cooler:

   Ice

10. Were all bottles sealed in separate plastic bags? ..... YES
11. Were labels in good condition? ..... YES
12. Were all bottle labels complete (ID,date,time signature,preservative,etc.)? ..... YES
13. Did all bottle labels agree with custody papers? ..... NO
14. Were correct containers used for the tests indicated? ..... YES
15. Were the correct pHs observed? ..... YES
16. Was a sufficient amount of sample sent for tests indicated? ..... YES
17. Were bubbles absent in VOA samples? ..... YES
18. Temperatures: 2.0

DISCREPANCIES:

The sample ID's on the COC stated SS, the bottles all stated SB, Samples were logged in as SS.

Date Printed: 4/10/2008 11:18

QC Outlier Report: Reporting Limits (Non-qualified Outliers)

Lab Report Batch: TT46702 **Lab ID:** PACE

Client Sample ID	Lab Sample ID	Analysis Method	Matrix	Analyte Name	Lab Qualifier	Result	Reporting Limit Criteria*	Units
09SS 125 0002	TT46702-001	8081A	SO	TOXAPHENE	U	64000	33,519.96	ug/kg
09SS 126 0002	TT46702-002	8081A	SO	TOXAPHENE	U	16000000	7,977,063.18	ug/kg
09SS 127 0002	TT46702-003	8081A	SO	TOXAPHENE	U	1400000	675,384.36	ug/kg
09SS 128 0002	TT46702-004RX	8081A	SO	TOXAPHENE	U	24000	10,824.95	ug/kg
09SS 130 0002	TT46702-006	8081A	SO	TOXAPHENE	U	140000	69,270.05	ug/kg
09SS 131 0002	TT46702-007	8081A	SO	TOXAPHENE	U	560000	276,193.81	ug/kg
09SS 132 0002	TT46702-008RX	8081A	SO	TOXAPHENE	U	190	82.50	ug/kg
09SS 133 0002	TT46702-009	8081A	SO	TOXAPHENE	U	32000000	16,739,712.67	ug/kg
09SS 134 0002	TT46702-010RX	8081A	SO	TOXAPHENE	U	4400	2,198.49	ug/kg
09SS 136 0002	TT46702-012RX	8081A	SO	TOXAPHENE	U	15000	8,108.71	ug/kg
09SS 137 0002	TT46702-013	8081A	SO	TOXAPHENE	U	14000000	6,872,183.92	ug/kg
09SS 138 0002	TT46702-014RX	8081A	SO	TOXAPHENE	U	2300	1,221.41	ug/kg
09SS 139 0002	TT46702-015RX	8081A	SO	TOXAPHENE	U	2400	1,068.49	ug/kg

* Reporting Limit Criteria = (Dilution Factor) * (Reporting Limit from the reference project library) * (Percent Moisture Correction)
Percent Moisture Correction:
Soil: 100 / (100 - Percent Moisture)
Water: 1

Project Number and Name: ***TTNUS_CTO376 - CTO 0467 NSWC Crane***

Pace Analytical Services, Inc.
940 S. Harney
Seattle, WA 98108

To: Tetra Tech NUS, Inc.
Project No.: CTO 0467
Site Name: Crane NSWC
Project Manager: S. Ruffing
SDG No.: TT46702
Date of Report: May 16, 2008

SAMPLE RECEIPT, IDENTIFICATION, AND GENERAL COMMENTS:

Sample Receipt and Identification:

The samples submitted under the laboratory number(s) indicated above were identified and analyzed as tabulated below. The samples were collected and received on the dates noted on the enclosed chain-of-custody copies, Attachment A.

Client Sample Identification	Pace Sample Identification	Testing Analytical Request
09SS 125 0002	TT46702-001	PEST
09SS 126 0002	TT46702-002	PEST
09SS 127 0002	TT46702-003	PEST
09SS 128 0002	TT46702-004	PEST
09SS 129 0002	TT46702-005	
09SS 130 0002	TT46702-006	PEST
09SS 131 0002	TT46702-007	PEST
09SS 132 0002	TT46702-008	PEST
09SS 133 0002	TT46702-009	PEST
09SS 134 0002	TT46702-010	PEST
09SS 135 0002	TT46702-011	
09SS 136 0002	TT46702-012	PEST
09SS 137 0002	TT46702-013	PEST
09SS 138 0002	TT46702-014	PEST
09SS 139 0002	TT46702-015	PEST
09FD04080801	TT46702-016	
09RB040808	TT46702-017	

Analytical Request Key:

PEST = Appendix IX Pesticides (8081)

Summary of NELAC test accreditation

Determination	NELAC approved
2540B Total Solids, soil (by Organics dept.)	NO
8081 Pesticides Soil with Appendix IX List	YES

Pace Analytical Services, Inc.
940 S. Harney
Seattle, WA 98108

Sample Receipt Comments:

The following discrepancies were noted in association with the receipt of these samples.

The sample ID's on the COC stated SS, but the bottles stated SB. Samples were logged in as SS.

GENERAL REMARKS ON ORGANIC ANALYSES:

The following comments describe general analysis conditions. For remarks specific to the samples reported in this case, see "SPECIFIC REMARKS ON ORGANIC ANALYSIS."

Manual Integrations:
One or more analytes may have been manually integrated on the data system quantitation reports. All manual integrations have been flagged, initialed, and dated by the analyst. A list of the manual integration flags is detailed below.

M	Manual integration due to irregular peak shape
MS	Manual integration due to split peak
MR	Manual integration due to retention time shift
MI	Manual integration of correct isomer
MT	Manual integration due to peak tailing
MB	Manual integration due to irregular baseline

Holding Time Compliance:

Pesticides:
The holding time to extraction, which is calculated from the date of collection, is 7 days for water samples and 14 days for soil samples. The holding time from extraction to analysis is 40 days. All samples were extracted and analyzed within holding times, however, because of the extremely high concentrations of target pesticides in most of the samples the original data could not be used. All samples were re-extracted outside of the 14 day holding time but within the 28 day holding time for validatable data.

Pesticide Fraction:

Sample Preparation:
Due to the extremely high concentrations of pesticides in these samples all samples and QC were extracted using a modified sonication technique to avoid contamination of laboratory glassware and ASE cells.

Sample Analyses:
All samples were screened to determine approximate pesticide content then diluted appropriately prior to analysis. Only the final diluted analyses were submitted.

Chlordane is reported separately as the alpha and gamma isomers, not the total.

Surrogate Recoveries:
Both surrogates were diluted out of many sample analyses. All analyses with recoverable levels of surrogates yielded recoveries within the control limits.

Quality Control Analyses:
MS/MSD analyses performed on sample extract 09SS 139 0002 yielded recoveries for 4,4'-DDT and 4,4'-DDE that were outside of the control limits due to the high concentration of these compounds in the native sample. All recoveries were within the control limits in the blank spike analyses.

Continuing Calibration Verification (CCV) Standard Analyses:
Analysis of CCV Q5060815.d yielded a %D value for the surrogate DCB that exceeded the 20% control limit on the RTX-CLP column. Because the DCB recovery was within the control limits on the RTX-CLP2 column no further action was taken.

Pace Analytical Services, Inc.
940 S. Harney
Seattle, WA 98108

ABBREVIATIONS

Several abbreviations can appear in our reports. The most commonly employed abbreviations are as follows:

U — The analyte of interest was not detected to the limit of detection indicated.

SDL — Sample Detection Limit. The SDL can vary from sample to sample, depending on sample size, matrix interferences, moisture content and other sample-specific conditions.

PQL — Practical Quantitation Limit. The limit is drawn from the test method and usually represents the SDL multiplied by a matrix-specific factor.

DB — Dry Basis. The value reported has been back-calculated to normalize for the moisture content of the sample.

AR — As-Received. The value has not been normalized for moisture.

ORGANIC ANALYSES:

B — When used in relation to organics fractions, the "B" flag indicates that the analyte of interest was detected in the method blank associated with the sample, as well as in the sample itself. The "B" flag is applied without regard to the relative concentrations detected in the blank and sample.

J — The analyte of interest was detected below the routine reporting limit. This value should be regarded as an estimate.

T — The flagged values represent the SUM of two co-eluting compounds. The SUM of these two values is shown as though it were a result for each of them. The two figures should not be added together.

E — The flagged value was reported from an analysis that exceeded the linear range of the instrument. See additional comments for further discussion of the circumstances. Values so flagged should be considered estimates.

P — When a dual column GC technique is employed, this flag indicates that test results from the two columns differ by more than 25%. Generally, we report the higher value.

C — The flagged analyte has been confirmed by GC/MS analysis. The value reported may be derived from either the initial of confirmatory (GC/MS) analysis. See specific report comments for details.

~ — This result has been identified as non-primary based on the analyst's professional judgment.

CRQL — Client requested Quantitation Limit, usually the limit of detection specified at your request. Might also be referred to as Contract Required Quantitation Limit.

Pace Analytical Services, Inc.
940 S. Harney
Seattle, WA 98108

RELEASE OF DATA

Pace Analytical Services, Inc. certifies that these results meet all requirements of the NELAC standards, except where otherwise noted.

"I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or his designee, as verified by the following signature."

Respectfully submitted,

for
Kara Godineaux
Project Manager

5/16/08
(DATE)

Harry Romberg
Quality Assurance Officer

5/16/08
(DATE)

HOW TO CONTACT US:

All Pace Analytical Services, Inc. staff members can be reached at the same telephone and facsimile numbers: (206) 767-5060 by phone, (206) 767-5063 by FAX.

REQUESTS FOR DUPLICATE COPIES:

This packet has been checked for accuracy. All pages are present and in sequential order. Please see Attachment B for a detailed record.

In the event that duplicate data copies are needed, Pace will accommodate your request at a fee of twenty-five cents ($0.25) per copy, plus shipping. If the data are in storage, there will also be a fee for retrieval.

2

SOIL PESTICIDE SURROGATE RECOVERY

Lab Name: Pace Analytical Services, Inc. Contract: N/A

SDG No.: TT46702 Run Sequence: R027799

(LAB SAMPLE ID) CLIENT SAMPLE NUMBER	S1 (TCX)	#	S2 (DCB)	#	S3 ()	#	S4 ()	#	TOT OUT
(TT46702-013) 09SS 137 0002	0	*	0	*					2
(TT46702-009) 09SS 133 0002	0	*	0	*					2
(TT46702-007) 09SS 131 0002	0	*	0	*					2
(TT46702-006) 09SS 130 0002	0	*	0	*					2
(TT46702-003) 09SS 127 0002	0	*	0	*					2
(TT46702-002) 09SS 126 0002	0	*	0	*					2
(TT46702-001) 09SS 125 0002	0	*	0	*					2
(S043008GPXSLG) S043008GPXSLG	103		98						0
(B043008GPXSLG) B043008GPXSLG	113		92						0

		QC LIMITS
S1 (TCX) =	TETRACHLORO-M-XYLENE	30-150
S2 (DCB) =	DECACHLOROBIPHENYL	75-158
S3 () =		
S4 () =		

Column to be used to flag recovery values
* Values outside of contract required QC limits

2

SOIL PESTICIDE SURROGATE RECOVERY

Lab Name: Pace Analytical Services, Inc. Contract: N/A

SDG No.: TT46702 Run Sequence: R027909

(LAB SAMPLE ID) CLIENT SAMPLE NUMBER	S1 (TCX) #	S2 (DCB) #	S3 () #	S4 () #	TOT OUT
(TT46702-014RX) 09SS 138 0002RX	102	139			0
(TT46702-010RX) 09SS 134 0002RX	117	120			0
(TT46702-015MSD) 09SS 139 0002MSD	103	83			0
(TT46702-015MS) 09SS 139 0002MS	100	83			0
(TT46702-015RX) 09SS 139 0002RX	91	80			0
(TT46702-012RX) 09SS 136 0002RX	117	133			0
(TT46702-008RX) 09SS 132 0002RX	105	91			0
(TT46702-004RX) 09SS 128 0002RX	117	140			0
(S050508GPXSLG) S050508GPXSLG	112	97			0
(B050508GPXSLG) B050508GPXSLG	115	100			0

		QC LIMITS
S1 (TCX) =	TETRACHLORO-M-XYLENE	30-150
S2 (DCB) =	DECACHLOROBIPHENYL	75-158
S3 () =		
S4 () =		

Column to be used to flag recovery values
* Values outside of contract required QC limits

3B
SOIL PESTICIDE BLANK SPIKE RECOVERY

Lab Name: Pace Analytical Services, Inc. Contract: N/A

BS Run Sequence: R027799 SDG No.: TT46702

BS Lab Sample ID: S043008GPXSLG

Level: N/A Units: ug/kg

Analyte	Spike Added	Found	% Rec #	Rec Limit
ALPHA-BHC	100	85.211	85	53-136
BETA-BHC	100	95.1	95	59-146
DELTA-BHC	100	71.0749	71	66-156
GAMMA-BHC	100	89.8512	90	46-131
HEPTACHLOR	100	100.963	101	56-117
ALDRIN	100	99.6398	100	59-126
HEPTACHLOR EPOXIDE	100	97.2228	97	50-133
ENDOSULFAN I	100	96.1821	96	42-139
DIELDRIN	200	196.807	98	52-140
4,4'-DDE	200	201.544	101	57-153
ENDRIN	200	186.283	93	48-154
ENDOSULFAN II	200	193.297	97	39-162
4,4'-DDD	200	185.844	93	29-160
ENDOSULFAN SULFATE	200	162.798	81	41-150
4,4'-DDT	200	162.091	81	41-133
METHOXYCHLOR	1000	928.74	93	61-118
ENDRIN ALDEHYDE	200	181.681	91	45-119
ALPHA-CHLORDANE	100	98.8817	99	38-189
ENDRIN KETONE	200	188.026	94	49-154
GAMMA-CHLORDANE	100	97.1215	97	53-132

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

Spike Recovery: 0 out of 20 outside limits

COMMENTS:

Date Printed: 5/5/2008 9:20

3B
SOIL PESTICIDE BLANK SPIKE RECOVERY

Lab Name: Pace Analytical Services, Inc. Contract: N/A

BS Run Sequence: R027909 SDG No.: TT46702

BS Lab Sample ID: S050508GPXSLG

Level: N/A Units: ug/kg

Analyte	Spike Added	Found	% Rec #	Rec Limit
ALPHA-BHC	13.3	11.7481	88	53-136
BETA-BHC	13.3	12.9085	97	59-146
DELTA-BHC	13.3	9.5421	72	66-156
GAMMA-BHC	13.3	12.2437	92	46-131
HEPTACHLOR	13.3	13.4839	101	56-117
ALDRIN	13.3	13.3557	100	59-126
HEPTACHLOR EPOXIDE	13.3	12.6667	95	50-133
ENDOSULFAN I	13.3	12.9602	97	42-139
DIELDRIN	26.7	26.1385	98	52-140
4,4'-DDE	26.7	27.3524	103	57-153
ENDRIN	26.7	25.9775	97	48-154
ENDOSULFAN II	26.7	24.7765	93	39-162
4,4'-DDD	26.7	25.5526	96	29-160
ENDOSULFAN SULFATE	26.7	21.5262	81	41-150
4,4'-DDT	26.7	21.9342	82	41-133
METHOXYCHLOR	133	120.23	90	61-118
ENDRIN ALDEHYDE	26.7	23.7882	89	45-119
ALPHA-CHLORDANE	13.3	13.3038	100	38-189
ENDRIN KETONE	26.7	23.5909	88	49-154
GAMMA-CHLORDANE	13.3	12.8097	96	53-132

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

Spike Recovery: 0 out of 20 outside limits

COMMENTS:

Date Printed: 5/7/2008 14:56

SOIL PESTICIDE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Pace Analytical Services, Inc. Contract: N/A

MS Run Sequence: R027909 MSD Run Sequence: R027909 SDG No.: TT46702

MS Client Sample No.: 09SS 139 0002MS MSD Client Sample No.: 09SS 139 0002MSD

MS Lab Sample ID: TT46702-015MS MSD Lab Sample ID: TT46702-015MSD

Level: N/A Units: ug/kg

COMPOUND	SAMPLE CONC	MS SPIKE ADDED	MS CONC	MS % REC #	MSD SPIKE ADDED	MSD CONC	MSD % REC #	%RPD #	QC LIMITS	
									RPD	REC.
ALPHA-BHC	0	104	75.1327	72	101	76.6743	76	5	34	46-141
BETA-BHC	0	104	93.2331	89	101	94.7115	94	5	30	43-158
DELTA-BHC	0	104	64.4529	62	101	65.3993	65	5	37	48-162
GAMMA-BHC	0	104	82.7122	79	101	85.061	84	6	29	39-144
HEPTACHLOR	0	104	95.3018	91	101	94.652	94	3	25	57-118
ALDRIN	0	104	94.636	91	101	92.5815	92	1	28	47-139
HEPTACHLOR EPOXIDE	0	104	101.852	98	101	99.8306	99	1	52	36-140
ENDOSULFAN I	0	104	90.3505	87	101	88.9842	88	2	37	19-167
DIELDRIN	0	209	182.259	87	202	177.134	88	0	33	44-153
4,4'-DDE	510.599	209	940.658	206 *	202	789.955	138	14	47	20-190
ENDRIN	0	209	181.513	87	202	180.704	89	3	34	55-167
ENDOSULFAN II	0	209	172.662	83	202	172.633	85	3	37	6-179
4,4'-DDD	0	209	176.695	85	202	179.713	89	5	41	49-170
ENDOSULFAN SULFATE	0	209	136.397	65	202	135.761	67	3	34	41-155
4,4'-DDT	1068.93	209	1527.15	220 @	202	1352.05	140	9	44	38-156
METHOXYCHLOR	0	1040	843.883	81	1010	857.342	85	5	39	67-142
ENDRIN ALDEHYDE	0	209	156.832	75	202	160.047	79	5	30	28-114
ALPHA-CHLORDANE	98.6646	104	221.096	117	101	199.27	100	7	48	19-174
ENDRIN KETONE	0	209	152.957	73	202	151.478	75	2	36	40-165
GAMMA-CHLORDANE	91.8691	104	210.765	114	101	190.6	98	7	49	26-150

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits
@ This RPD or percent recovery is not flagged as an exceedence because the Sample Found amount is five times or more than the Spike Added amount.

RPD: 0 out of 20 outside limits
Spike Recovery: 1 out of 40 outside limits

COMMENTS:

4

PESTICIDE METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

B043008GPXSLG

Lab Name: Pace Analytical Services, Inc.

Contract:

SDG No.: TT46702

Lab File ID: Q5020805.d

Lab Sample ID: B043008GPXSLG

Matrix: (SOIL/SED/WATER) Soil

Extraction: (Type) PFEX

Sulfur Cleanup: N

Date Extracted: 05/01/2008

Date Analyzed (1): 05/02/2008

Date Analyzed (2): 05/02/2008

Time Analyzed (1): 13:19

Time Analyzed (2): 13:19

Instrument ID (1): HP6890Q

Instrument ID (2): HP6890Q

GC Column(1): RTX-CLP ID: .32 (mm) GC Column(2): RTX-CLPII ID: .32 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, AND MSD:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED (1)	DATE ANALYZED (2)	RUN SEQUENCE
01	S043008GPXSLG	S043008GPXSLG	05/02/2008	05/02/2008	R027799
02	09SS 125 0002	TT46702-001	05/02/2008	05/02/2008	R027799
03	09SS 126 0002	TT46702-002	05/02/2008	05/02/2008	R027799
04	09SS 127 0002	TT46702-003	05/02/2008	05/02/2008	R027799
05	09SS 130 0002	TT46702-006	05/02/2008	05/02/2008	R027799
06	09SS 131 0002	TT46702-007	05/02/2008	05/02/2008	R027799
07	09SS 133 0002	TT46702-009	05/02/2008	05/02/2008	R027799
08	09SS 137 0002	TT46702-013	05/02/2008	05/02/2008	R027799
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					

COMMENTS:

1

PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

B043008GPXSLG

Lab Name: Pace Analytical Services, In

Contract: N/A

SDG No.: TT46702

Run Sequence: R027799

Matrix: (SOIL/WATER) Soil

Lab Sample ID: B043008GPXSLG

Sample wt/vol: 2.00 (g/mL) gm

Lab File ID: Q5020805.d

% Moisture: _____ Decanted: (Y/N) N

Date Collected: _____

Extraction: (Type) PFEX

Date Extracted: 05/01/2008

Concentrated Extract Volume: 10000.0(uL)

Date Analyzed: 05/02/2008

Injection Volume: 0.5 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
319-84-6	ALPHA-BHC	~~0.65~~ 20	U
319-85-7	BETA-BHC	~~0.65~~ 1	U
319-86-8	DELTA-BHC	~~0.65~~ 1	U
58-89-9	GAMMA-BHC	~~0.65~~ 1	U
76-44-8	HEPTACHLOR	~~0.65~~ 1	U
309-00-2	ALDRIN	~~0.65~~ 1	U
1024-57-3	HEPTACHLOR EPOXIDE	~~0.65~~ 1	U
959-98-8	ENDOSULFAN I	~~0.65~~ 1	U
60-57-1	DIELDRIN	~~1.4~~ 40	U
72-55-9	4,4'-DDE	~~1.4~~ 40	U
72-20-8	ENDRIN	~~1.4~~ 40	U
33213-65-9	ENDOSULFAN II	~~1.4~~ 40	U
72-54-8	4,4'-DDD	~~1.4~~ 40	U
1031-07-8	ENDOSULFAN SULFATE	~~1.4~~ 40	U
50-29-3	4,4'-DDT	~~1.4~~ 40	U
72-43-5	METHOXYCHLOR	~~6.5~~ 200	U
7421-93-4	ENDRIN ALDEHYDE	~~1.4~~ 40	U
5103-71-9	ALPHA-CHLORDANE	~~0.65~~ 20	U
53494-70-5	ENDRIN KETONE	~~1.4~~ 40	U
5103-74-2	GAMMA-CHLORDANE	~~0.65~~ 20	U
8001-35-2	TOXAPHENE	~~85~~ 2400	U

Comments:

MC 5/15/08

8081B

Date Printed: 5/15/2008 8:33

FORM I PEST

PESTICIDE METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

B050508GPXSLG

Lab Name: Pace Analytical Services, Inc.

Contract:

SDG No.: TT46702

Lab File ID: Q5060805.d

Lab Sample ID: B050508GPXSLG

Matrix: (SOIL/SED/WATER) Soil

Extraction: (Type) PFEX

Sulfur Cleanup: N

Date Extracted: 05/05/2008

Date Analyzed (1): 05/06/2008

Date Analyzed (2): 05/06/2008

Time Analyzed (1): 11:41

Time Analyzed (2): 11:41

Instrument ID (1): HP6890Q

Instrument ID (2): HP6890Q

GC Column(1): RTX-CLP ID: .32 (mm) GC Column(2): RTX-CLPII ID: .32 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, AND MSD:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED (1)	DATE ANALYZED (2)	RUN SEQUENCE
01	S050508GPXSLG	S050508GPXSLG	05/06/2008	05/06/2008	R027909
02	09SS 128 0002RX	TT46702-004RX	05/06/2008	05/06/2008	R027909
03	09SS 132 0002RX	TT46702-008RX	05/06/2008	05/06/2008	R027909
04	09SS 136 0002RX	TT46702-012RX	05/06/2008	05/06/2008	R027909
05	09SS 139 0002RX	TT46702-015RX	05/06/2008	05/06/2008	R027909
06	09SS 139 0002MS	TT46702-015MS	05/06/2008	05/06/2008	R027909
07	09SS 139 0002MSD	TT46702-015MSD	05/06/2008	05/06/2008	R027909
08	09SS 134 0002RX	TT46702-010RX	05/06/2008	05/06/2008	R027909
09	09SS 138 0002RX	TT46702-014RX	05/07/2008	05/07/2008	R027909
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					

COMMENTS:

1

PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

B050508GPXSLG

Lab Name: Pace Analytical Services, In

Contract: N/A

SDG No.: TT46702

Run Sequence: R027909

Matrix: (SOIL/WATER) Soil

Lab Sample ID: B050508GPXSLG

Sample wt/vol: 15.0 (g/mL) gm

Lab File ID: Q5060805.d

% Moisture: _____ Decanted: (Y/N) N

Date Collected: _____

Extraction: (Type) PFEX

Date Extracted: 05/05/2008

Concentrated Extract Volume: 10000.0(uL)

Date Analyzed: 05/06/2008

Injection Volume: 0.5 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
319-84-6	ALPHA-BHC	0.65 2.7	U
319-85-7	BETA-BHC	0.65 2.7	U
319-86-8	DELTA-BHC	0.65 2.7	U
58-89-9	GAMMA-BHC	0.65 2.7	U
76-44-8	HEPTACHLOR	0.65 2.7	U
309-00-2	ALDRIN	0.65 2.7	U
1024-57-3	HEPTACHLOR EPOXIDE	0.65 2.7	U
959-98-8	ENDOSULFAN I	0.65 2.7	U
60-57-1	DIELDRIN	1.4 5.3	U
72-55-9	4,4'-DDE	1.4	U
72-20-8	ENDRIN	1.4	U
33213-65-9	ENDOSULFAN II	1.4	U
72-54-8	4,4'-DDD	1.4	U
1031-07-8	ENDOSULFAN SULFATE	1.4	U
50-29-3	4,4'-DDT	1.4	U
72-43-5	METHOXYCHLOR	6.5 27	U
7421-93-4	ENDRIN ALDEHYDE	1.4 5.3	U
5103-71-9	ALPHA-CHLORDANE	0.65 2.7	U
53494-70-5	ENDRIN KETONE	1.4 5.3	U
5103-74-2	GAMMA-CHLORDANE	0.65 2.7	U
8001-35-2	TOXAPHENE	85 350	U

Comments:

MC 5/15/08

8081B

Date Printed: 5/7/2008 14:56

FORM I PEST

SUM - 96

Pace Analytical Services, Inc.
BATCH SUMMARY (for databatch - \\diana\target\6890q.i\Q42408Pest-1.b)

	Filename	Lab Sample ID	Client Sample ID	SDG	I.V.	D.F.	Inj. Date & Time
1	Q4240804.d	INDC+ L1	PX-8-43-9/20	CALIB	2	1	24-APR-2008 12:16
2	Q4240805.d	INDC+ L2	PX-8-43-9/10	CALIB	2	1	24-APR-2008 12:49
3	Q4240806.d	INDC+ L3	PX-8-43-9/4	CALIB	2	1	24-APR-2008 13:22
4	Q4240807.d	INDC+ L4	PX-8-43-9/2	CALIB	2	1	24-APR-2008 13:55
5	Q4240808.d	INDC+ L5	PX-8-43-9	CALIB	2	1	24-APR-2008 14:28
6	Q4240809.d	PI BLANK	PX-8-43-8	INSTBLAN	2	1	24-APR-2008 15:01
7	Q4240810.d	TOXAPHENE L1	PX-8-41-12/20	CALIB	2	1	24-APR-2008 15:34
8	Q4240811.d	INDC+ 2ND (L3)	PX-4-43-3/4	CCV	2	1	24-APR-2008 16:07

I.V. = Inj.Vol. per Column Batch Summary Ver 2.0 9-5-2002

SUM-35

Pace Analytical Services, Inc.
Initial Calibration Linearity Summary

Start Cal Date: 24-APR-2008 12:16
End Cal Date : 24-APR-2008 14:28
Quant Method : ESTD
Cal Curve Type: Average CF
Integrator : Falcon
Method File : \\diana\target\6890q.i\Q42408Pest-1.b\Q42408Pest-1.M
Method : Method 8081
Sublist : INDC+.sub
Column : RTX-CLP
Column Size : 30m L - 0.32mm ID

Calibration Files:
Level 1: //diana/target/6890q.i/Q42408Pest-1.b/Q4240804.d
Level 2: //diana/target/6890q.i/Q42408Pest-1.b/Q4240805.d
Level 3: //diana/target/6890q.i/Q42408Pest-1.b/Q4240806.d
Level 4: //diana/target/6890q.i/Q42408Pest-1.b/Q4240807.d
Level 5: //diana/target/6890q.i/Q42408Pest-1.b/Q4240808.d

Compound	Level 1	Level 2	Level 3	Level 4	Level 5	Ave CF	%RSD
44 alpha-BHC	782777500	928352500	983069400	1026958000	1082063000	960644100	11.9
45 gamma-BHC (Lindane)	801227000	941018200	971280200	982648000	1020597000	943354100	8.9
46 beta-BHC	407098000	427217000	394340500	389338000	402311500	404061000	3.6
47 delta-BHC	764418500	906937000	951351400	979290700	1010160000	922431600	10.4
48 Heptachlor	932722000	1015712000	1016345000	1016603000	1042785000	1004833000	4.2
49 Aldrin	812935500	902724500	951185200	954943600	985307300	921419200	7.3
50 Heptachlor epoxide	844301500	903411200	892193400	905043500	921746700	893339300	3.3
51 gamma-Chlordane	833419500	878097000	865945600	909541100	921815000	881783600	4.0
52 alpha-Chlordane	815423500	881756000	846493300	877865600	894436400	863195000	3.7
53 Endosulfan I	781976000	829423200	826048800	833614900	856073900	825427400	3.3

Amount = Response divided by CF

CF - Calibration Factor (response divided by concentration).
RSD - Relative Standard Deviation.

SUM - 3

Pace Analytical Services, Inc.
Initial Calibration Linearity Summary

Compound	Level 1	Level 2	Level 3	Level 4	Level 5	Ave CF	%RSD
54 4,4'-DDE	782751200	876239100	913592500	910345900	905843800	877754500	6.3
55 Dieldrin	820911000	939018200	954903000	955632200	946004200	923293700	6.2
56 Endrin	751839200	833956900	872845800	865316800	836689600	832129600	5.8
57 4,4'-DDD	616508500	698870400	739422600	738943000	727571500	704263300	7.3
58 Endosulfan II	743566500	794132400	785675000	791847400	772262400	777496700	2.7
59 Endrin aldehyde	639626800	679810100	654264400	643608200	646702500	652802400	2.5
60 4,4'-DDT	864270500	904607400	894678200	897962400	863428800	884989400	2.2
61 Endosulfan sulfate	740671000	788960100	763089800	747693600	736778200	755438500	2.8
62 Methoxychlor	434089000	463393200	432739200	404997300	367042000	420452100	8.6
63 Endrin Ketone	832590200	918864100	905498900	886246200	839569900	876553900	4.4
66 Isodrin	774325500	868177800	867934200	882131300	804449400	859403600	5.8
1 Tetrachloro-m-xylene	626452400	693822600	654911200	628922500	658818900	652585500	4.2
11 Decachlorobiphenyl	983194400	976175000	858862000	809262500	777066400	880912000	10.8

Amount = Response divided by CF

CF - Calibration Factor (response divided by concentration).
RSD - Relative Standard Deviation.

SUM - 37

Pace Analytical Services, Inc.
Initial Calibration Retention Time Summary

Start Cal Date: 24-APR-2008 12:16
End Cal Date : 24-APR-2008 14:28
Quant Method : ESTD
Cal Curve Type: Average CF
Integrator : Falcon
Method File : \\diana\target\6890q.i\Q42408Pest-1.b\Q42408Pest-1.M
Method : Method 8081
Sublist : INDC+.sub
Column : RTX-CLP
Column Size : 30m L - 0.32mm ID

Calibration Files:
Level 1: //diana/target/6890q.i/Q42408Pest-1.b/Q4240804.d
Level 2: //diana/target/6890q.i/Q42408Pest-1.b/Q4240805.d
Level 3: //diana/target/6890q.i/Q42408Pest-1.b/Q4240806.d
Level 4: //diana/target/6890q.i/Q42408Pest-1.b/Q4240807.d
Level 5: //diana/target/6890q.i/Q42408Pest-1.b/Q4240808.d

Compound	Level 1	Level 2	Level 3	Level 4	Level 5	Ave RT
44 alpha-BHC	8.47	8.46	8.46	8.46	8.46	6.044
45 gamma-BHC (Lindane)	9.07	9.06	9.06	9.06	9.06	6.473
46 beta-BHC	9.24	9.23	9.23	9.23	9.23	6.594
47 delta-BHC	9.55	9.54	9.54	9.55	9.55	6.819
48 Heptachlor	9.91	9.90	9.90	9.91	9.91	7.076
49 Aldrin	10.42	10.41	10.41	10.41	10.41	7.437
50 Heptachlor epoxide	11.41	11.40	11.40	11.41	11.40	8.146
51 gamma-Chlordane	11.61	11.60	11.60	11.60	11.60	8.287
52 alpha-Chlordane	11.82	11.81	11.80	11.81	11.81	8.436
53 Endosulfan I	12.03	12.02	12.02	12.02	12.02	8.587

Retention times are expressed as minutes.

Pace Analytical Services, Inc.
Initial Calibration Retention Time Summary

Start Cal Date: 24-APR-2008 12:16
End Cal Date : 24-APR-2008 14:28
Quant Method : ESTD
Cal Curve Type: Average CF
Integrator : Falcon
Method File : \\diana\target\6890q.i\Q42408Pest-1.b\Q42408Pest-1.M
Method : Method 8081
Sublist : INDC+.sub
Column : RTX-CLP
Column Size : 30m L - 0.32mm ID

Compound	Level 1	Level 2	Level 3	Level 4	Level 5	Ave RT
54 4,4'-DDE	11.93	11.93	11.92	11.93	11.92	8.519
55 Dieldrin	12.40	12.39	12.39	12.39	12.39	8.851
56 Endrin	12.75	12.74	12.74	12.74	12.74	9.101
57 4,4'-DDD	12.84	12.83	12.83	12.83	12.83	9.166
58 Endosulfan II	13.09	13.08	13.08	13.08	13.08	9.344
59 Endrin aldehyde	13.71	13.71	13.71	13.71	13.70	9.791
60 4,4'-DDT	13.25	13.24	13.24	13.24	13.24	9.459
61 Endosulfan sulfate	14.36	14.35	14.35	14.35	14.35	10.251
62 Methoxychlor	13.95	13.94	13.94	13.94	13.94	9.959
63 Endrin Ketone	14.77	14.76	14.76	14.76	14.76	10.544
66 Isodrin	10.97	10.96	10.96	10.96	10.96	7.830
1 Tetrachloro-m-xylene	7.32	7.31	7.31	7.31	7.31	5.223
11 Decachlorobiphenyl	16.19	16.18	16.18	16.18	16.18	11.558

Retention times are expressed as minutes.

Pace Analytical Services, Inc.
Initial Calibration Amounts Summary

Start Cal Date: 24-APR-2008 12:16
End Cal Date : 24-APR-2008 14:28
Quant Method : ESTD
Cal Curve Type: Average CF
Integrator : Falcon
Method File : \\diana\target\6890q.i\Q42408Pest-1.b\Q42408Pest-1.M
Method : Method 8081
Sublist : INDC+.sub
Column : RTX-CLP
Column Size : 30m L - 0.32mm ID

Calibration Files:
Level 1: //diana/target/6890q.i/Q42408Pest-1.b/Q4240804.d
Level 2: //diana/target/6890q.i/Q42408Pest-1.b/Q4240805.d
Level 3: //diana/target/6890q.i/Q42408Pest-1.b/Q4240806.d
Level 4: //diana/target/6890q.i/Q42408Pest-1.b/Q4240807.d
Level 5: //diana/target/6890q.i/Q42408Pest-1.b/Q4240808.d

Compound	Level 1	Level 2	Level 3	Level 4	Level 5
44 alpha-BHC	0.00200	0.00400	0.01000	0.02000	0.04000
45 gamma-BHC (Lindane)	0.00200	0.00400	0.01000	0.02000	0.04000
46 beta-BHC	0.00200	0.00400	0.01000	0.02000	0.04000
47 delta-BHC	0.00200	0.00400	0.01000	0.02000	0.04000
48 Heptachlor	0.00200	0.00400	0.01000	0.02000	0.04000
49 Aldrin	0.00200	0.00400	0.01000	0.02000	0.04000
50 Heptachlor epoxide	0.00200	0.00400	0.01000	0.02000	0.04000
51 gamma-Chlordane	0.00200	0.00400	0.01000	0.02000	0.04000
52 alpha-Chlordane	0.00200	0.00400	0.01000	0.02000	0.04000
53 Endosulfan I	0.00200	0.00400	0.01000	0.02000	0.04000

Standard concentrations are expressed as ng.

Pace Analytical Services, Inc.
Initial Calibration Amounts Summary

Start Cal Date: 24-APR-2008 12:16
End Cal Date : 24-APR-2008 14:28
Quant Method : ESTD
Cal Curve Type: Average CF
Integrator : Falcon
Method File : \\diana\target\6890q.i\Q42408Pest-1.b\Q42408Pest-1.M
Method : Method 8081
Sublist : INDC+.sub
Column : RTX-CLP
Column Size : 30m L - 0.32mm ID

Compound	Level 1	Level 2	Level 3	Level 4	Level 5
54 4,4'-DDE	0.00400	0.00800	0.02000	0.04000	0.08000
55 Dieldrin	0.00400	0.00800	0.02000	0.04000	0.08000
56 Endrin	0.00400	0.00800	0.02000	0.04000	0.08000
57 4,4'-DDD	0.00400	0.00800	0.02000	0.04000	0.08000
58 Endosulfan II	0.00400	0.00800	0.02000	0.04000	0.08000
59 Endrin aldehyde	0.00400	0.00800	0.02000	0.04000	0.08000
60 4,4'-DDT	0.00400	0.00800	0.02000	0.04000	0.08000
61 Endosulfan sulfate	0.00400	0.00800	0.02000	0.04000	0.08000
62 Methoxychlor	0.02000	0.04000	0.10000	0.20000	0.40000
63 Endrin Ketone	0.00400	0.00800	0.02000	0.04000	0.08000
66 Isodrin	0.00200	0.00400	0.01000	0.02000	0.04000
1 Tetrachloro-m-xylene	0.00250	0.00500	0.01250	0.02500	0.05000
11 Decachlorobiphenyl	0.00250	0.00500	0.01250	0.02500	0.05000

Standard concentrations are expressed as ng.

SUM - 41

Pace Analytical Services, Inc.
Initial Calibration Response Summary

Start Cal Date: 24-APR-2008 12:16
End Cal Date : 24-APR-2008 14:28
Quant Method : ESTD
Cal Curve Type: Average CF
Integrator : Falcon
Method File : \\diana\target\6890q.i\Q42408Pest-1.b\Q42408Pest-1.M
Method : Method 8081
Sublist : INDC+.sub
Column : RTX-CLP
Column Size : 30m L - 0.32mm ID

Calibration Files:
Level 1: //diana/target/6890q.i/Q42408Pest-1.b/Q4240804.d
Level 2: //diana/target/6890q.i/Q42408Pest-1.b/Q4240805.d
Level 3: //diana/target/6890q.i/Q42408Pest-1.b/Q4240806.d
Level 4: //diana/target/6890q.i/Q42408Pest-1.b/Q4240807.d
Level 5: //diana/target/6890q.i/Q42408Pest-1.b/Q4240808.d

Compound	Level 1	Level 2	Level 3	Level 4	Level 5
44 alpha-BHC	1565555.0	3713410.0	9830694.0	20539154	43282539
45 gamma-BHC (Lindane)	1602454.0	3764073.0	9712802.0	19652961	40823887
46 beta-BHC	814196.00	1708868.0	3943405.0	7786759.0	16092460
47 delta-BHC	1528837.0	3627748.0	9513514.0	19585814	40406411
48 Heptachlor	1865444.0	4062846.0	10163452	20332067	41711384
49 Aldrin	1625871.0	3610898.0	9511852.0	19098871	39412291
50 Heptachlor epoxide	1688603.0	3613645.0	8921934.0	18100870	36869868
51 gamma-Chlordane	1666839.0	3512388.0	8659456.0	18192822	36872600
52 alpha-Chlordane	1630847.0	3527024.0	8464933.0	17557312	35777457
53 Endosulfan I	1563952.0	3317693.0	8260488.0	16672298	34242957

Response is in Height units.

SUM - 42

Pace Analytical Services, Inc.
Initial Calibration Response Summary

Start Cal Date: 24-APR-2008 12:16
End Cal Date : 24-APR-2008 14:28
Quant Method : ESTD
Cal Curve Type: Average CF
Integrator : Falcon
Method File : \\diana\target\6890q.i\Q42408Pest-1.b\Q42408Pest-1.M
Method : Method 8081
Sublist : INDC+.sub
Column : RTX-CLP
Column Size : 30m L - 0.32mm ID

Compound	Level 1	Level 2	Level 3	Level 4	Level 5
54 4,4'-DDE	3131005.0	7009913.0	18271850	36413836	72467502
55 Dieldrin	3283644.0	7512146.0	19098059	38225289	75680340
56 Endrin	3007357.0	6671655.0	17456915	34612672	66935164
57 4,4'-DDD	2466034.0	5590963.0	14788453	29557718	58205749
58 Endosulfan II	2974266.0	6353059.0	15713501	31673896	61780991
59 Endrin aldehyde	2558507.0	5438481.0	13085288	25744328	51736201
60 4,4'-DDT	3457082.0	7236859.0	17893563	35918495	69074300
61 Endosulfan sulfate	2962684.0	6311681.0	15261795	29907744	58942252
62 Methoxychlor	8681779.0	18535727	43273924	80999465	146816800
63 Endrin Ketone	3330361.0	7350913.0	18109978	35449849	67165595
66 Isodrin	1548651.0	3472711.0	8679342.0	17642626	36177976
1 Tetrachloro-m-xylene	1566131.0	3469113.0	8186390.0	15723062	32940946
11 Decachlorobiphenyl	2457986.0	4880875.0	10735775	20231562	38853318

Response is in Height units.

SUM - 43

Pace Analytical Services, Inc.
Initial Calibration Linearity Summary

Start Cal Date: 24-APR-2008 15:34
End Cal Date : 24-APR-2008 15:34
Quant Method : ESTD
Cal Curve Type: Average CF
Integrator : Falcon
Method File : \\diana\target\6890q.i\Q42408Pest-1.b\Q42408Pest-1.M
Method : Method 8081
Sublist : TOX.sub
Column : RTX-CLP
Column Size : 30m L - 0.32mm ID

Calibration Files:
Level 1: //diana/target/6890q.i/Q42408Pest-1.b/Q4240810.d

Compound	Level 1	Ave CF	%RSD
Toxaphene-1	26854320	26854320	0.0
Toxaphene-2	33459940	33459940	0.0
Toxaphene-3	38403820	38403820	0.0
Toxaphene-4	30244840	30244840	0.0
Toxaphene-5	20902160	20902160	0.0

Amount = Response divided by CF

CF - Calibration Factor (response divided by concentration).
RSD - Relative Standard Deviation.

Pace Analytical Services, Inc.
Initial Calibration Retention Time Summary

Start Cal Date: 24-APR-2008 15:34
End Cal Date : 24-APR-2008 15:34
Quant Method : ESTD
Cal Curve Type: Average CF
Integrator : Falcon
Method File : \\diana\target\6890q.i\Q42408Pest-1.b\Q42408Pest-1.M
Method : Method 8081
Sublist : TOX.sub
Column : RTX-CLP
Column Size : 30m L - 0.32mm ID

Calibration Files:
Level 1: //diana/target/6890q.i/Q42408Pest-1.b/Q4240810.d

Compound	Level 1	Ave RT
Toxaphene-1	13.25	13.250
Toxaphene-2	13.57	13.570
Toxaphene-3	14.20	14.200
Toxaphene-4	14.72	14.720
Toxaphene-5	14.94	14.940

Retention times are expressed as minutes.

Pace Analytical Services, Inc.
Initial Calibration Amounts Summary

Start Cal Date: 24-APR-2008 15:34
End Cal Date : 24-APR-2008 15:34
Quant Method : ESTD
Cal Curve Type: Average CF
Integrator : Falcon
Method File : \\diana\target\6890q.i\Q42408Pest-1.b\Q42408Pest-1.M
Method : Method 8081
Sublist : TOX.sub
Column : RTX-CLP
Column Size : 30m L - 0.32mm ID

Calibration Files:
Level 1: //diana/target/6890q.i/Q42408Pest-1.b/Q4240810.d

Compound	Level 1
Toxaphene-1	0.05000
Toxaphene-2	0.05000
Toxaphene-3	0.05000
Toxaphene-4	0.05000
Toxaphene-5	0.05000

Standard concentrations are expressed as ng.

Pace Analytical Services, Inc.
Initial Calibration Response Summary

Start Cal Date: 24-APR-2008 15:34
End Cal Date : 24-APR-2008 15:34
Quant Method : ESTD
Cal Curve Type: Average CF
Integrator : Falcon
Method File : \\diana\target\6890q.i\Q42408Pest-1.b\Q42408Pest-1.M
Method : Method 8081
Sublist : TOX.sub
Column : RTX-CLP
Column Size : 30m L - 0.32mm ID

Calibration Files:
Level 1: //diana/target/6890q.i/Q42408Pest-1.b/Q4240810.d

Compound	Level 1
Toxaphene-1	1342716.0
Toxaphene-2	1672997.0
Toxaphene-3	1920191.0
Toxaphene-4	1512242.0
Toxaphene-5	1045108.0

Response is in Height units.

SUM - 47

Pace Analytical Services, Inc.
Initial Calibration Linearity Summary

Start Cal Date: 24-APR-2008 12:16
End Cal Date : 24-APR-2008 14:28
Quant Method : ESTD
Cal Curve Type: Average CF
Integrator : Falcon
Method File : \\diana\target\6890q.i\Q42408Pest-2.b\Q42408Pest-2.M
Method : Method 8081
Sublist : INDC+.sub
Column : RTX-CLP2
Column Size : 30m L - 0.32mm ID

Calibration Files:
Level 1: //diana/target/6890q.i/Q42408Pest-2.b/Q4240804.d
Level 2: //diana/target/6890q.i/Q42408Pest-2.b/Q4240805.d
Level 3: //diana/target/6890q.i/Q42408Pest-2.b/Q4240806.d
Level 4: //diana/target/6890q.i/Q42408Pest-2.b/Q4240807.d
Level 5: //diana/target/6890q.i/Q42408Pest-2.b/Q4240808.d

Compound	Level 1	Level 2	Level 3	Level 4	Level 5	Ave CF	%RSD
44 alpha-BHC	751547000	838034200	858671900	866816400	907065400	844427000	6.8
45 gamma-BHC (Lindane)	757243000	837688200	824992800	816372600	854645400	818188400	4.5
46 beta-BHC	376012500	385769800	342455800	329311800	331331600	352976300	7.4
47 Heptachlor	755338500	785825500	756769300	757151900	792884200	769593900	2.4
48 delta-BHC	763635500	831539500	836435900	855392200	871312300	831663100	5.0
49 Aldrin	706998500	748220000	727181200	745495200	763616600	738302300	2.9
50 Heptachlor epoxide	702813000	725350800	701101300	686385300	698918000	702913700	2.0
51 gamma-Chlordane	683618500	695086500	667267300	683218800	691038200	684045900	1.6
52 alpha-Chlordane	683056000	690399200	654149200	633123900	654599200	663065500	3.5
53 Endosulfan I	650226500	666424000	625756800	622640500	635135400	640036600	2.8

Amount = Response divided by CF

CF - Calibration Factor (response divided by concentration).
RSD - Relative Standard Deviation.

Pace Analytical Services, Inc.
Initial Calibration Linearity Summary

Compound	Level 1	Level 2	Level 3	Level 4	Level 5	Ave CF	%RSD
54 Dieldrin	657405500	716298500	712666000	715147400	715210300	703345500	3.7
55 Endrin	568307200	606474000	601481900	606577000	610377800	598643600	2.9
56 4,4'-DDD	512525500	561896400	561412600	574717200	560522200	554214800	4.3
57 Endosulfan II	598708800	627865900	592204600	588269200	585473700	598508500	2.9
58 4,4'-DDT	663181500	655933500	637679800	639213200	628846200	644970800	2.2
59 Endrin aldehyde	506014500	517540100	496275600	489919600	491352100	500220400	2.3
60 Endosulfan sulfate	575690200	588694200	565171200	556156700	560808000	569304000	2.3
61 Methoxychlor	297551700	308409800	297627900	288397600	266244600	291646300	5.4
62 Endrin ketone	690568200	721062500	688601400	681853100	665646000	689546200	2.9
64 4,4'-DDE	623506200	678161600	655956800	684760800	676894000	663859900	3.8
66 Isodrin	683982000	712012200	680930500	673982800	687274600	687636400	2.1
1 Tetrachloro-m-xylene	557361200	590307000	539522100	517738600	546141000	550214000	4.8
11 Decachlorobiphenyl	610126000	576038800	508663000	484969800	460741800	528107800	11.9

Amount = Response divided by CF

CF = Calibration Factor (response divided by concentration).

RSD = Relative Standard Deviation.

Pace Analytical Services, Inc.
Initial Calibration Retention Time Summary

Start Cal Date: 24-APR-2008 12:16
End Cal Date : 24-APR-2008 14:28
Quant Method : ESTD
Cal Curve Type: Average CF
Integrator : Falcon
Method File : \\diana\target\6890q.i\Q42408Pest-2.b\Q42408Pest-2.M
Method : Method 8081
Sublist : INDC+.sub
Column : RTX-CLP2
Column Size : 30m L - 0.32mm ID

Calibration Files:
Level 1: //diana/target/6890q.i/Q42408Pest-2.b/Q4240804.d
Level 2: //diana/target/6890q.i/Q42408Pest-2.b/Q4240805.d
Level 3: //diana/target/6890q.i/Q42408Pest-2.b/Q4240806.d
Level 4: //diana/target/6890q.i/Q42408Pest-2.b/Q4240807.d
Level 5: //diana/target/6890q.i/Q42408Pest-2.b/Q4240808.d

Compound	Level 1	Level 2	Level 3	Level 4	Level 5	Ave RT
44 alpha-BHC	8.40	8.40	8.41	8.41	8.41	6.004
45 gamma-BHC (Lindane)	9.06	9.06	9.06	9.06	9.06	6.471
46 beta-BHC	9.22	9.22	9.22	9.22	9.22	6.586
47 Heptachlor	9.82	9.82	9.82	9.82	9.82	7.014
48 delta-BHC	9.72	9.72	9.72	9.72	9.72	6.943
49 Aldrin	10.35	10.35	10.35	10.35	10.35	7.393
50 Heptachlor epoxide	11.27	11.27	11.27	11.27	11.27	8.050
51 gamma-Chlordane	11.57	11.57	11.57	11.57	11.57	8.264
52 alpha-Chlordane	11.79	11.79	11.79	11.79	11.79	8.421
53 Endosulfan I	11.87	11.87	11.87	11.87	11.87	8.479

Retention times are expressed as minutes.

Pace Analytical Services, Inc.
Initial Calibration Retention Time Summary

Start Cal Date: 24-APR-2008 12:16
End Cal Date : 24-APR-2008 14:28
Quant Method : ESTD
Cal Curve Type: Average CF
Integrator : Falcon
Method File : \\diana\target\6890q.i\Q42408Pest-2.b\Q42408Pest-2.M
Method : Method 8081
Sublist : INDC+.sub
Column : RTX-CLP2
Column Size : 30m L - 0.32mm ID

Compound	Level 1	Level 2	Level 3	Level 4	Level 5	Ave RT
54 Dieldrin	12.29	12.29	12.29	12.29	12.29	8.779
55 Endrin	12.74	12.74	12.74	12.74	12.74	9.100
56 4,4'-DDD	12.92	12.92	12.92	12.92	12.92	9.229
57 Endosulfan II	13.06	13.05	13.05	13.05	13.05	9.323
58 4,4'-DDT	13.38	13.38	13.38	13.38	13.38	9.557
59 Endrin aldehyde	13.55	13.55	13.55	13.55	13.55	9.679
60 Endosulfan sulfate	13.96	13.95	13.95	13.95	13.95	9.966
61 Methoxychlor	14.37	14.37	14.37	14.37	14.37	10.264
62 Endrin ketone	14.73	14.73	14.73	14.73	14.73	10.521
64 4,4'-DDE	12.06	12.06	12.06	12.06	12.06	8.614
66 Isodrin	10.98	10.98	10.98	10.98	10.98	7.843
1 Tetrachloro-m-xylene	7.16	7.17	7.17	7.17	7.17	5.120
11 Decachlorobiphenyl	16.55	16.54	16.54	16.54	16.54	11.816

Retention times are expressed as minutes.

SUM - 51

Pace Analytical Services, Inc.
Initial Calibration Amounts Summary

Start Cal Date: 24-APR-2008 12:16
End Cal Date : 24-APR-2008 14:28
Quant Method : ESTD
Cal Curve Type: Average CF
Integrator : Falcon
Method File : \\diana\target\6890q.i\Q42408Pest-2.b\Q42408Pest-2.M
Method : Method 8081
Sublist : INDC+.sub
Column : RTX-CLP2
Column Size : 30m L - 0.32mm ID

Calibration Files:
Level 1: //diana/target/6890q.i/Q42408Pest-2.b/Q4240804.d
Level 2: //diana/target/6890q.i/Q42408Pest-2.b/Q4240805.d
Level 3: //diana/target/6890q.i/Q42408Pest-2.b/Q4240806.d
Level 4: //diana/target/6890q.i/Q42408Pest-2.b/Q4240807.d
Level 5: //diana/target/6890q.i/Q42408Pest-2.b/Q4240808.d

Compound	Level 1	Level 2	Level 3	Level 4	Level 5
44 alpha-BHC	0.00200	0.00400	0.01000	0.02000	0.04000
45 gamma-BHC (Lindane)	0.00200	0.00400	0.01000	0.02000	0.04000
46 beta-BHC	0.00200	0.00400	0.01000	0.02000	0.04000
47 Heptachlor	0.00200	0.00400	0.01000	0.02000	0.04000
48 delta-BHC	0.00200	0.00400	0.01000	0.02000	0.04000
49 Aldrin	0.00200	0.00400	0.01000	0.02000	0.04000
50 Heptachlor epoxide	0.00200	0.00400	0.01000	0.02000	0.04000
51 gamma-Chlordane	0.00200	0.00400	0.01000	0.02000	0.04000
52 alpha-Chlordane	0.00200	0.00400	0.01000	0.02000	0.04000
53 Endosulfan I	0.00200	0.00400	0.01000	0.02000	0.04000

Standard concentrations are expressed as ng.

Pace Analytical Services, Inc.
Initial Calibration Amounts Summary

Start Cal Date: 24-APR-2008 12:16
End Cal Date : 24-APR-2008 14:28
Quant Method : ESTD
Cal Curve Type: Average CF
Integrator : Falcon
Method File : \\diana\target\6890q.i\Q42408Pest-2.b\Q42408Pest-2.M
Method : Method 8081
Sublist : INDC+.sub
Column : RTX-CLP2
Column Size : 30m L - 0.32mm ID

Compound	Level 1	Level 2	Level 3	Level 4	Level 5
54 Dieldrin	0.00400	0.00800	0.02000	0.04000	0.08000
55 Endrin	0.00400	0.00800	0.02000	0.04000	0.08000
56 4,4'-DDD	0.00400	0.00800	0.02000	0.04000	0.08000
57 Endosulfan II	0.00400	0.00800	0.02000	0.04000	0.08000
58 4,4'-DDT	0.00400	0.00800	0.02000	0.04000	0.08000
59 Endrin aldehyde	0.00400	0.00800	0.02000	0.04000	0.08000
60 Endosulfan sulfate	0.00400	0.00800	0.02000	0.04000	0.08000
61 Methoxychlor	0.02000	0.04000	0.10000	0.20000	0.40000
62 Endrin ketone	0.00400	0.00800	0.02000	0.04000	0.08000
64 4,4'-DDE	0.00400	0.00800	0.02000	0.04000	0.08000
66 Isodrin	0.00200	0.00400	0.01000	0.02000	0.04000
1 Tetrachloro-m-xylene	0.00250	0.00500	0.01250	0.02500	0.05000
11 Decachlorobiphenyl	0.00250	0.00500	0.01250	0.02500	0.05000

Standard concentrations are expressed as ng.

Pace Analytical Services, Inc.
Initial Calibration Response Summary

Start Cal Date: 24-APR-2008 12:16
End Cal Date : 24-APR-2008 14:28
Quant Method : ESTD
Cal Curve Type: Average CF
Integrator : Falcon
Method File : \\diana\target\6890q.i\Q42408Pest-2.b\Q42408Pest-2.M
Method : Method 8081
Sublist : INDC+.sub
Column : RTX-CLP2
Column Size : 30m L - 0.32mm ID

Calibration Files:
Level 1: //diana/target/6890q.i/Q42408Pest-2.b/Q4240804.d
Level 2: //diana/target/6890q.i/Q42408Pest-2.b/Q4240805.d
Level 3: //diana/target/6890q.i/Q42408Pest-2.b/Q4240806.d
Level 4: //diana/target/6890q.i/Q42408Pest-2.b/Q4240807.d
Level 5: //diana/target/6890q.i/Q42408Pest-2.b/Q4240808.d

Compound	Level 1	Level 2	Level 3	Level 4	Level 5
44 alpha-BHC	1503094.0	3352137.0	8586719.0	17336328	36282617
45 gamma-BHC (Lindane)	1514486.0	3350753.0	8249928.0	16327448	34185816
46 beta-BHC	752025.00	1543079.0	3424558.0	6586237.0	13253264
47 Heptachlor	1510677.0	3143302.0	7567693.0	15143038	31715370
48 delta-BHC	1527271.0	3326158.0	8364359.0	17107845	34852491
49 Aldrin	1413997.0	2992880.0	7271812.0	14909905	30544663
50 Heptachlor epoxide	1405626.0	2901403.0	7011013.0	13727706	27956718
51 gamma-Chlordane	1367237.0	2780346.0	6672673.0	13664376	27641528
52 alpha-Chlordane	1366112.0	2761597.0	6541492.0	12662478	26183968
53 Endosulfan I	1300453.0	2665696.0	6257568.0	12452810	25405416

Response is in Height units.

SUM - 54

Pace Analytical Services, Inc.
Initial Calibration Response Summary

Start Cal Date: 24-APR-2008 12:16
End Cal Date : 24-APR-2008 14:28
Quant Method : ESTD
Cal Curve Type: Average CF
Integrator : Falcon
Method File : \\diana\target\6890q.i\Q42408Pest-2.b\Q42408Pest-2.M
Method : Method 8081
Sublist : INDC+.sub
Column : RTX-CLP2
Column Size : 30m L - 0.32mm ID

Compound	Level 1	Level 2	Level 3	Level 4	Level 5
54 Dieldrin	2629622.0	5730388.0	14253319	28605896	57216827
55 Endrin	2273229.0	4851792.0	12029638	24263082	48830220
56 4,4'-DDD	2050102.0	4495171.0	11228252	22988687	44841773
57 Endosulfan II	2394835.0	5022927.0	11844095	23531569	46837896
58 4,4'-DDT	2652726.0	5247468.0	12753597	25568528	50307692
59 Endrin aldehyde	2024058.0	4140321.0	9925511.0	19596785	39308171
60 Endosulfan sulfate	2302761.0	4709554.0	11303423	22246267	44864637
61 Methoxychlor	5951034.0	12336392	29762787	57679529	106497850
62 Endrin ketone	2762273.0	5768500.0	13772028	27274125	53251679
64 4,4'-DDE	2494025.0	5425293.0	13119135	27391233	54151523
66 Isodrin	1367964.0	2848049.0	6809305.0	13479655	27490983
1 Tetrachloro-m-xylene	1393403.0	2951535.0	6744026.0	12943464	27307049
11 Decachlorobiphenyl	1525315.0	2880194.0	6358287.0	12124244	23037088

Response is in Height units.

SUM - 55

Pace Analytical Services, Inc.
Initial Calibration Linearity Summary

Start Cal Date: 24-APR-2008 15:34
End Cal Date : 24-APR-2008 15:34
Quant Method : ESTD
Cal Curve Type: Average CF
Integrator : Falcon
Method File : \\diana\target\6890q.i\Q42408Pest-2.b\Q42408Pest-2.M
Method : Method 8081
Sublist : TOX.sub
Column : RTX-CLP2
Column Size : 30m L - 0.32mm ID

Calibration Files:
Level 1: //diana/target/6890q.i/Q42408Pest-2.b/Q4240810.d

Compound	Level 1	Ave CF	%RSD
Toxaphene-1	34012460	34012460	0.0
Toxaphene-2	25979700	25979700	0.0
Toxaphene-3	28500940	28500940	0.0
Toxaphene-4	21834300	21834300	0.0
Toxaphene-5	2403000	2403000	0.0

Amount = Response divided by CF

CF - Calibration Factor (response divided by concentration).
RSD - Relative Standard Deviation.

SUM - 56

Pace Analytical Services, Inc.
Initial Calibration Retention Time Summary

Start Cal Date: 24-APR-2008 15:34
End Cal Date : 24-APR-2008 15:34
Quant Method : ESTD
Cal Curve Type: Average CF
Integrator : Falcon
Method File : \\diana\target\6890q.i\Q42408Pest-2.b\Q42408Pest-2.M
Method : Method 8081
Sublist : TOX.sub
Column : RTX-CLP2
Column Size : 30m L - 0.32mm ID

Calibration Files:
Level 1: //diana/target/6890q.i/Q42408Pest-2.b/Q4240810.d

Compound	Level 1	Ave RT
Toxaphene-1	13.18	13.180
Toxaphene-2	13.56	13.560
Toxaphene-3	14.39	14.390
Toxaphene-4	14.47	14.470
Toxaphene-5	14.54	14.540

Retention times are expressed as minutes.

SUM - 57

Pace Analytical Services, Inc.
Initial Calibration Amounts Summary

Start Cal Date: 24-APR-2008 15:34
End Cal Date : 24-APR-2008 15:34
Quant Method : ESTD
Cal Curve Type: Average CF
Integrator : Falcon
Method File : \\diana\target\6890q.i\Q42408Pest-2.b\Q42408Pest-2.M
Method : Method 8081
Sublist : TOX.sub
Column : RTX-CLP2
Column Size : 30m L - 0.32mm ID

Calibration Files:
Level 1: //diana/target/6890q.i/Q42408Pest-2.b/Q4240810.d

Compound	Level 1
Toxaphene-1	0.05000
Toxaphene-2	0.05000
Toxaphene-3	0.05000
Toxaphene-4	0.05000
Toxaphene-5	0.05000

Standard concentrations are expressed as ng.

Pace Analytical Services, Inc.
Initial Calibration Response Summary

Start Cal Date: 24-APR-2008 15:34
End Cal Date : 24-APR-2008 15:34
Quant Method : ESTD
Cal Curve Type: Average CF
Integrator : Falcon
Method File : \\diana\target\6890q.i\Q42408Pest-2.b\Q42408Pest-2.M
Method : Method 8081
Sublist : TOX.sub
Column : RTX-CLP2
Column Size : 30m L - 0.32mm ID

Calibration Files:
Level 1: //diana/target/6890q.i/Q42408Pest-2.b/Q4240810.d

Compound	Level 1
Toxaphene-1	1700623.0
Toxaphene-2	1298985.0
Toxaphene-3	1425047.0
Toxaphene-4	1091715.0
Toxaphene-5	120150.00

Response is in Height units.

Pace Analytical Services, Inc.
Continuing Calibration Verification Summary

Data File : //diana/target/6890q.i/Q42408Pest-1.b/Q4240811.d
Injection Date : 24-APR-2008 16:07
Sample Info : INDC+ 2ND (L3)
Misc. Info : Method 8081
Laboratory ID : INDC+ 2ND (L3) Client ID : PX-4-43-3/4
Instrument ID : 6890Q.i
Method : Q42408Pest-1.m Sublist : INDC+
Quantitation : ESTD Integrator : Falcon
Dilution Factor : 1.00 Sample Type: CCALIB_5
Column : RTX-CLP Column Size: 30.00m L- 0.32mm ID

Compound	RT	RT Window	Expected Amount	Continuing Amount	%D	Flag
Tetrachloro-m-xylene	7.31	7.26 - 7.36	0.01250	0.01136	-9.1	
alpha-BHC	8.46	8.41 - 8.51	0.01000	0.009996	-0.0	
gamma-BHC (Lindane)	9.06	9.01 - 9.11	0.01000	0.01025	2.5	
beta-BHC	9.23	9.18 - 9.28	0.01000	0.01041	4.1	
delta-BHC	9.54	9.50 - 9.60	0.01000	0.009205	-7.9	
Heptachlor	9.90	9.86 - 9.96	0.01000	0.01043	4.3	
Aldrin	10.41	10.36 - 10.46	0.01000	0.01039	3.9	
Isodrin	10.96	10.89 - 11.03	0.01000	0.009176	-8.2	
Heptachlor epoxide	11.40	11.33 - 11.47	0.01000	0.01065	6.5	
gamma-Chlordane	11.60	11.53 - 11.67	0.01000	0.01035	3.5	
alpha-Chlordane	11.80	11.74 - 11.88	0.01000	0.01064	6.4	
4,4'-DDE	11.92	11.85 - 11.99	0.02000	0.02289	14.4	
Endosulfan I	12.02	11.95 - 12.09	0.01000	0.01048	4.9	
Dieldrin	12.39	12.32 - 12.46	0.02000	0.02141	7.0	
Endrin	12.74	12.67 - 12.81	0.02000	0.02218	10.9	
4,4'-DDD	12.83	12.76 - 12.90	0.02000	0.02157	7.8	
Endosulfan II	13.08	13.01 - 13.15	0.02000	0.02124	6.2	
4,4'-DDT	13.24	13.17 - 13.31	0.02000	0.01975	-1.3	
Endrin aldehyde	13.70	13.63 - 13.77	0.02000	0.02114	5.7	

%Drift (%D) = Continuing Amount - Expected Amount divided by Expected Amount times 100

Pace Analytical Services, Inc.
Continuing Calibration Verification Summary

Data File : Q4240811.d
Injection Date : 24-APR-2008 16:07

Compound	RT	RT Window	Expected Amount	Continuing Amount	%D	Flag
Methoxychlor	13.94	13.87 - 14.01	0.1000	0.1053	5.3	
Endosulfan sulfate	14.35	14.28 - 14.42	0.02000	0.01828	-8.6	
Endrin Ketone	14.76	14.69 - 14.83	0.02000	0.02091	4.6	
Decachlorobiphenyl	16.18	16.08 - 16.28	0.01250	0.01059	-15.3	X
Average Percent Difference					6.5	

%Drift (%D) = Continuing Amount - Expected Amount divided by Expected Amount times 100

Pace Analytical Services, Inc.
Continuing Calibration Verification Summary

Data File : //diana/target/6890q.i/Q42408Pest-2.b/Q4240811.d
Injection Date : 24-APR-2008 16:07
Sample Info : INDC+ 2ND (L3)
Misc. Info : Method 8081
Laboratory ID : INDC+ 2ND (L3) Client ID : PX-4-43-3/4
Instrument ID : 6890Q.i
Method : Q42408Pest-2.M Sublist : INDC+
Quantitation : ESTD Integrator : Falcon
Dilution Factor : 1.00 Sample Type: CCALIB_5
Column : RTX-CLP2 Column Size: 30.00m L- 0.32mm ID

Compound	RT	RT Window	Expected Amount	Continuing Amount	%D	Flag
Tetrachloro-m-xylene	7.16	7.12 - 7.22	0.01250	0.01102	-11.8	
alpha-BHC	8.40	8.36 - 8.46	0.01000	0.009892	-1.1	
gamma-BHC (Lindane)	9.06	9.01 - 9.11	0.01000	0.01017	1.7	
beta-BHC	9.22	9.17 - 9.27	0.01000	0.01013	1.3	
delta-BHC	9.72	9.67 - 9.77	0.01000	0.008915	-10.8	
Heptachlor	9.82	9.77 - 9.87	0.01000	0.01021	2.1	
Aldrin	10.35	10.30 - 10.40	0.01000	0.01030	3.0	
Isodrin	10.98	10.91 - 11.05	0.01000	0.009025	-9.8	
Heptachlor epoxide	11.27	11.20 - 11.34	0.01000	0.01015	1.5	
gamma-Chlordane	11.57	11.50 - 11.64	0.01000	0.01007	0.7	
alpha-Chlordane	11.79	11.72 - 11.86	0.01000	0.01057	5.7	
Endosulfan I	11.87	11.80 - 11.94	0.01000	0.01022	2.2	
4,4'-DDE	12.06	11.99 - 12.13	0.02000	0.02197	9.8	
Dieldrin	12.28	12.22 - 12.36	0.02000	0.02114	5.7	
Endrin	12.74	12.67 - 12.81	0.02000	0.02144	7.2	
4,4'-DDD	12.91	12.85 - 12.99	0.02000	0.02121	6.1	
Endosulfan II	13.05	12.98 - 13.12	0.02000	0.02084	4.2	
4,4'-DDT	13.37	13.31 - 13.45	0.02000	0.01952	-2.4	
Endrin aldehyde	13.55	13.48 - 13.62	0.02000	0.02057	2.9	

%Drift (%D) = Continuing Amount - Expected Amount divided by Expected Amount times 100

Pace Analytical Services, Inc.
Continuing Calibration Verification Summary

Data File : Q4240811.d
Injection Date : 24-APR-2008 16:07

Compound	RT	RT Window	Expected Amount	Continuing Amount	%D	Flag
Endosulfan sulfate	13.95	13.88 - 14.02	0.02000	0.01902	-4.9	
Methoxychlor	14.37	14.30 - 14.44	0.1000	0.1061	6.1	
Endrin ketone	14.73	14.66 - 14.80	0.02000	0.02004	0.2	
Decachlorobiphenyl	16.54	16.44 - 16.64	0.01250	0.01041	-16.7	X
Average Percent Difference					5.1	

%Drift (%D) = Continuing Amount - Expected Amount divided by Expected Amount times 100

Pace Analytical Services, Inc.
BATCH SUMMARY (for databatch - \\diana\target\6890q.i\Q42408Pest-1.b)

	Filename	Lab Sample ID	Client Sample ID	SDG	I.V.	D.F.	Inj. Date & Time
1	Q5020803.d	PEM	PX-8-43-7	PEM	2	1	02-MAY-2008 10:30
2	Q5020804.d	INDC+ CCV (L3)	PX-8-43-9/4	CCV	2	1	02-MAY-2008 11:22
3	Q5020805.d	B043008GPXSLG	B043008GPXSLG		1	1	02-MAY-2008 13:19
4	Q5020806.d	S043008GPXSLG	S043008GPXSLG		1	1	02-MAY-2008 13:52
5	Q5020807.d	TT46702-001	09SS 125 0002	TT46702	1	40	02-MAY-2008 14:25
6	Q5020808.d	TT46702-002	09SS 126 0002	TT46702	1	10000	02-MAY-2008 15:14
7	Q5020809.d	TT46702-003	09SS 127 0002	TT46702	1	1000	02-MAY-2008 15:47
8	Q5020810.d	TT46702-006	09SS 130 0002	TT46702	1	100	02-MAY-2008 16:20
9	Q5020811.d	INDC+ CCV (L3)	PX-8-43-9/4	CCV	2	1	02-MAY-2008 16:53
10	Q5020812.d	TT46702-007	09SS 131 0002	TT46702	1	400	02-MAY-2008 17:26
11	Q5020813.d	TT46702-009	09SS 133 0002	TT46702	1	20000	02-MAY-2008 17:59
12	Q5020814.d	TT46702-013	09SS 137 0002	TT46702	1	10000	02-MAY-2008 18:32
13	Q5020817.d	INDC+ CCV (L3)	PX-8-43-9/4	CCV	2	1	02-MAY-2008 20:11

I.V. = Inj.Vol. per Column Batch Summary Ver 2.0 9-5-2002

Pace Analytical Services, Inc.
Continuing Calibration Verification Summary

Data File : //diana/target/6890q.i/Q42408Pest-1.b/Q5020804.d
Injection Date : 02-MAY-2008 11:22
Sample Info : INDC+ CCV (L3)
Misc. Info : Method 8081
Laboratory ID : INDC+ CCV (L3) Client ID : PX-8-43-9/4
Instrument ID : 6890Q.i
Method : Q42408Pest-1.m Sublist : INDC+
Quantitation : ESTD Integrator : Falcon
Dilution Factor : 1.00 Sample Type: CCALIB_5
Column : RTX-CLP Column Size: 30.00m L- 0.32mm ID

Compound	RT	RT Window	Expected Amount	Continuing Amount	%D	Flag
Tetrachloro-m-xylene	7.31	7.26 - 7.36	0.01250	0.01234	-1.3	
alpha-BHC	8.46	8.41 - 8.51	0.01000	0.01032	3.2	
gamma-BHC (Lindane)	9.06	9.01 - 9.11	0.01000	0.01030	3.0	
beta-BHC	9.23	9.18 - 9.28	0.01000	0.009764	-2.4	
delta-BHC	9.54	9.50 - 9.60	0.01000	0.01014	1.4	
Heptachlor	9.90	9.86 - 9.96	0.01000	0.01010	1.0	
Aldrin	10.41	10.36 - 10.46	0.01000	0.01017	1.7	
Isodrin	10.96	10.89 - 11.03	0.01000	0.009962	-0.4	
Heptachlor epoxide	11.40	11.33 - 11.47	0.01000	0.009873	-1.3	
gamma-Chlordane	11.60	11.53 - 11.67	0.01000	0.009876	-1.2	
alpha-Chlordane	11.80	11.74 - 11.88	0.01000	0.009866	-1.3	
4,4'-DDE	11.92	11.85 - 11.99	0.02000	0.01988	-0.6	
Endosulfan I	12.02	11.95 - 12.09	0.01000	0.009835	-1.6	
Dieldrin	12.38	12.32 - 12.46	0.02000	0.02001	0.0	
Endrin	12.74	12.67 - 12.81	0.02000	0.01879	-6.1	
4,4'-DDD	12.83	12.76 - 12.90	0.02000	0.01925	-3.8	
Endosulfan II	13.08	13.01 - 13.15	0.02000	0.01954	-2.3	
4,4'-DDT	13.24	13.17 - 13.31	0.02000	0.01894	-5.3	
Endrin aldehyde	13.70	13.63 - 13.77	0.02000	0.01967	-1.6	

%Drift (%D) = Continuing Amount - Expected Amount divided by Expected Amount times 100

Pace Analytical Services, Inc.
Continuing Calibration Verification Summary

Data File : Q5020804.d
Injection Date : 02-MAY-2008 11:22

Compound	RT	RT Window	Expected Amount	Continuing Amount	%D	Flag
Methoxychlor	13.94	13.87 - 14.01	0.1000	0.09433	-5.7	
Endosulfan sulfate	14.34	14.28 - 14.42	0.02000	0.01940	-3.0	
Endrin Ketone	14.76	14.69 - 14.83	0.02000	0.02056	2.8	
Decachlorobiphenyl	16.17	16.08 - 16.28	0.01250	0.01112	-11.0	
Average Percent Difference					2.7	

%Drift (%D) = Continuing Amount - Expected Amount divided by Expected Amount times 100

Pace Analytical Services, Inc.
Continuing Calibration Verification Summary

Data File : //diana/target/6890q.i/Q42408Pest-2.b/Q5020804.d
Injection Date : 02-MAY-2008 11:22
Sample Info : INDC+ CCV (L3)
Misc. Info : Method 8081
Laboratory ID : INDC+ CCV (L3) Client ID : PX-8-43-9/4
Instrument ID : 6890Q.i
Method : Q42408Pest-2.m Sublist : INDC+
Quantitation : ESTD Integrator : Falcon
Dilution Factor : 1.00 Sample Type: CCALIB_5
Column : RTX-CLP2 Column Size: 30.00m L- 0.32mm ID

Compound	RT	RT Window	Expected Amount	Continuing Amount	%D	Flag
Tetrachloro-m-xylene	7.16	7.12 - 7.22	0.01250	0.01291	3.3	
alpha-BHC	8.40	8.36 - 8.46	0.01000	0.01083	8.3	
gamma-BHC (Lindane)	9.06	9.01 - 9.11	0.01000	0.01062	6.2	
beta-BHC	9.22	9.17 - 9.27	0.01000	0.01018	1.8	
delta-BHC	9.72	9.67 - 9.77	0.01000	0.01035	3.5	
Heptachlor	9.82	9.77 - 9.87	0.01000	0.01069	6.9	
Aldrin	10.35	10.30 - 10.40	0.01000	0.01044	4.4	
Isodrin	10.98	10.91 - 11.05	0.01000	0.01042	4.2	
Heptachlor epoxide	11.27	11.20 - 11.34	0.01000	0.01007	0.7	
gamma-Chlordane	11.57	11.50 - 11.64	0.01000	0.01020	2.1	
alpha-Chlordane	11.79	11.72 - 11.86	0.01000	0.01018	1.8	
Endosulfan I	11.87	11.80 - 11.94	0.01000	0.01020	2.0	
4,4'-DDE	12.06	11.99 - 12.13	0.02000	0.02035	1.7	
Dieldrin	12.28	12.22 - 12.36	0.02000	0.02049	2.5	
Endrin	12.74	12.67 - 12.81	0.02000	0.01933	-3.3	
4,4'-DDD	12.92	12.85 - 12.99	0.02000	0.02001	0.1	
Endosulfan II	13.05	12.98 - 13.12	0.02000	0.02024	1.2	
4,4'-DDT	13.38	13.31 - 13.45	0.02000	0.01983	-0.8	
Endrin aldehyde	13.55	13.48 - 13.62	0.02000	0.02012	0.6	

%Drift (%D) = Continuing Amount - Expected Amount divided by Expected Amount times 100

Pace Analytical Services, Inc.
Continuing Calibration Verification Summary

Data File : Q5020804.d
Injection Date : 02-MAY-2008 11:22

Compound	RT	RT Window	Expected Amount	Continuing Amount	%D	Flag
Endosulfan sulfate	13.95	13.88 - 14.02	0.02000	0.02022	1.1	
Methoxychlor	14.37	14.30 - 14.44	0.1000	0.09929	-0.7	
Endrin ketone	14.73	14.66 - 14.80	0.02000	0.02030	1.5	
Decachlorobiphenyl	16.54	16.44 - 16.64	0.01250	0.01229	-1.7	
Average Percent Difference					2.6	

%Drift (%D) = Continuing Amount - Expected Amount divided by Expected Amount times 100

Pace Analytical Services, Inc.
Continuing Calibration Verification Summary

Data File : //diana/target/6890q.i/Q42408Pest-1.b/Q5020811.d
Injection Date : 02-MAY-2008 16:53
Sample Info : INDC+ CCV (L3)
Misc. Info : Method 8081
Laboratory ID : INDC+ CCV (L3) Client ID : PX-8-43-9/4
Instrument ID : 6890Q.i
Method : Q42408Pest-1.m Sublist : INDC+
Quantitation : ESTD Integrator : Falcon
Dilution Factor : 1.00 Sample Type: CCALIB_5
Column : RTX-CLP Column Size: 30.00m L- 0.32mm ID

Compound	RT	RT Window	Expected Amount	Continuing Amount	%D	Flag
Tetrachloro-m-xylene	7.30	7.26 - 7.36	0.01250	0.01291	3.3	
alpha-BHC	8.45	8.41 - 8.51	0.01000	0.01068	6.8	
gamma-BHC (Lindane)	9.06	9.01 - 9.11	0.01000	0.01050	5.0	
beta-BHC	9.22	9.18 - 9.28	0.01000	0.009964	-0.4	
delta-BHC	9.54	9.50 - 9.60	0.01000	0.01040	4.0	
Heptachlor	9.90	9.86 - 9.96	0.01000	0.01040	4.0	
Aldrin	10.40	10.36 - 10.46	0.01000	0.01014	1.5	
Isodrin	10.96	10.89 - 11.03	0.01000	0.01040	4.0	
Heptachlor epoxide	11.40	11.33 - 11.47	0.01000	0.01034	3.5	
gamma-Chlordane	11.59	11.53 - 11.67	0.01000	0.01031	3.1	
alpha-Chlordane	11.80	11.74 - 11.88	0.01000	0.01002	0.2	
4,4'-DDE	11.92	11.85 - 11.99	0.02000	0.02008	0.4	
Endosulfan I	12.01	11.95 - 12.09	0.01000	0.009989	-0.1	
Dieldrin	12.38	12.32 - 12.46	0.02000	0.02041	2.1	
Endrin	12.73	12.67 - 12.81	0.02000	0.01929	-3.6	
4,4'-DDD	12.82	12.76 - 12.90	0.02000	0.01980	-1.0	
Endosulfan II	13.07	13.01 - 13.15	0.02000	0.01953	-2.3	
4,4'-DDT	13.23	13.17 - 13.31	0.02000	0.01941	-3.0	
Endrin aldehyde	13.70	13.63 - 13.77	0.02000	0.01974	-1.3	

%Drift (%D) = Continuing Amount - Expected Amount divided by Expected Amount times 100

Pace Analytical Services, Inc.
Continuing Calibration Verification Summary

Data File : Q5020811.d
Injection Date : 02-MAY-2008 16:53

Compound	RT	RT Window	Expected Amount	Continuing Amount	%D	Flag
Methoxychlor	13.93	13.87 - 14.01	0.1000	0.09416	-5.8	
Endosulfan sulfate	14.34	14.28 - 14.42	0.02000	0.01916	-4.2	
Endrin Ketone	14.76	14.69 - 14.83	0.02000	0.01991	-0.5	
Decachlorobiphenyl	16.17	16.08 - 16.28	0.01250	0.01115	-10.8	
Average Percent Difference					3.1	

%Drift (%D) = Continuing Amount - Expected Amount divided by Expected Amount times 100

Pace Analytical Services, Inc.
Continuing Calibration Verification Summary

Data File : //diana/target/6890q.i/Q42408Pest-2.b/Q5020811.d
Injection Date : 02-MAY-2008 16:53
Sample Info : INDC+ CCV (L3)
Misc. Info : Method 8081
Laboratory ID : INDC+ CCV (L3) Client ID : PX-8-43-9/4
Instrument ID : 6890Q.i
Method : Q42408Pest-2.m Sublist : INDC+
Quantitation : ESTD Integrator : Falcon
Dilution Factor : 1.00 Sample Type: CCALIB_5
Column : RTX-CLP2 Column Size: 30.00m L- 0.32mm ID

Compound	RT	RT Window	Expected Amount	Continuing Amount	%D	Flag
Tetrachloro-m-xylene	7.16	7.12 - 7.22	0.01250	0.01325	6.0	
alpha-BHC	8.40	8.36 - 8.46	0.01000	0.01111	11.1	
gamma-BHC (Lindane)	9.06	9.01 - 9.11	0.01000	0.01093	9.3	
beta-BHC	9.22	9.17 - 9.27	0.01000	0.01031	3.1	
delta-BHC	9.72	9.67 - 9.77	0.01000	0.01061	6.1	
Heptachlor	9.82	9.77 - 9.87	0.01000	0.01110	11.1	
Aldrin	10.35	10.30 - 10.40	0.01000	0.01098	9.9	
Isodrin	10.98	10.91 - 11.05	0.01000	0.01074	7.4	
Heptachlor epoxide	11.27	11.20 - 11.34	0.01000	0.01044	4.4	
gamma-Chlordane	11.56	11.50 - 11.64	0.01000	0.01058	5.8	
alpha-Chlordane	11.79	11.72 - 11.86	0.01000	0.01050	5.0	
Endosulfan I	11.87	11.80 - 11.94	0.01000	0.01049	4.9	
4,4'-DDE	12.06	11.99 - 12.13	0.02000	0.02075	3.8	
Dieldrin	12.28	12.22 - 12.36	0.02000	0.02116	5.8	
Endrin	12.73	12.67 - 12.81	0.02000	0.01995	-0.3	
4,4'-DDD	12.91	12.85 - 12.99	0.02000	0.02058	2.9	
Endosulfan II	13.05	12.98 - 13.12	0.02000	0.02081	4.1	
4,4'-DDT	13.37	13.31 - 13.45	0.02000	0.02059	2.9	
Endrin aldehyde	13.54	13.48 - 13.62	0.02000	0.02046	2.3	

%Drift (%D) = Continuing Amount - Expected Amount divided by Expected Amount times 100

Pace Analytical Services, Inc.
Continuing Calibration Verification Summary

Data File : Q5020811.d
Injection Date : 02-MAY-2008 16:53

Compound	RT	RT Window	Expected Amount	Continuing Amount	%D	Flag
Endosulfan sulfate	13.95	13.88 - 14.02	0.02000	0.02057	2.9	
Methoxychlor	14.37	14.30 - 14.44	0.1000	0.1038	3.8	
Endrin ketone	14.73	14.66 - 14.80	0.02000	0.02088	4.4	
Decachlorobiphenyl	16.54	16.44 - 16.64	0.01250	0.01212	-3.0	
Average Percent Difference					5.2	

%Drift (%D) = Continuing Amount - Expected Amount divided by Expected Amount times 100

Pace Analytical Services, Inc.
Continuing Calibration Verification Summary

Data File : //diana/target/6890q.i/Q42408Pest-1.b/Q5020817.d
Injection Date : 02-MAY-2008 20:11
Sample Info : INDC+ CCV (L3)
Misc. Info : Method 8081
Laboratory ID : INDC+ CCV (L3) Client ID : PX-8-43-9/4
Instrument ID : 6890Q.i
Method : Q42408Pest-1.m Sublist : INDC+
Quantitation : ESTD Integrator : Falcon
Dilution Factor : 1.00 Sample Type: CCALIB_5
Column : RTX-CLP Column Size: 30.00m L- 0.32mm ID

Compound	RT	RT Window	Expected Amount	Continuing Amount	%D	Flag
Tetrachloro-m-xylene	7.30	7.26 - 7.36	0.01250	0.01258	0.7	
alpha-BHC	8.46	8.41 - 8.51	0.01000	0.01059	5.9	
gamma-BHC (Lindane)	9.06	9.01 - 9.11	0.01000	0.01044	4.5	
beta-BHC	9.22	9.18 - 9.28	0.01000	0.009907	-0.9	
delta-BHC	9.54	9.50 - 9.60	0.01000	0.01025	2.5	
Heptachlor	9.90	9.86 - 9.96	0.01000	0.01028	2.8	
Aldrin	10.40	10.36 - 10.46	0.01000	0.01031	3.1	
Isodrin	10.96	10.89 - 11.03	0.01000	0.01038	3.8	
Heptachlor epoxide	11.40	11.33 - 11.47	0.01000	0.01022	2.2	
gamma-Chlordane	11.59	11.53 - 11.67	0.01000	0.01015	1.5	
alpha-Chlordane	11.80	11.74 - 11.88	0.01000	0.01017	1.7	
4,4'-DDE	11.92	11.85 - 11.99	0.02000	0.02038	1.9	
Endosulfan I	12.02	11.95 - 12.09	0.01000	0.01010	1.0	
Dieldrin	12.38	12.32 - 12.46	0.02000	0.02094	4.7	
Endrin	12.74	12.67 - 12.81	0.02000	0.01960	-2.0	
4,4'-DDD	12.82	12.76 - 12.90	0.02000	0.02039	2.0	
Endosulfan II	13.08	13.01 - 13.15	0.02000	0.02011	0.6	
4,4'-DDT	13.24	13.17 - 13.31	0.02000	0.01992	-0.4	
Endrin aldehyde	13.70	13.63 - 13.77	0.02000	0.02043	2.2	

%Drift (%D) = Continuing Amount - Expected Amount divided by Expected Amount times 100

Pace Analytical Services, Inc.
Continuing Calibration Verification Summary

Data File : Q5020817.d
Injection Date : 02-MAY-2008 20:11

Compound	RT	RT Window	Expected Amount	Continuing Amount	%D	Flag
Methoxychlor	13.94	13.87 - 14.01	0.1000	0.09558	-4.4	
Endosulfan sulfate	14.34	14.28 - 14.42	0.02000	0.02038	1.9	
Endrin Ketone	14.76	14.69 - 14.83	0.02000	0.02085	4.2	
Decachlorobiphenyl	16.17	16.08 - 16.28	0.01250	0.01108	-11.4	
Average Percent Difference					2.9	

%Drift (%D) = Continuing Amount - Expected Amount divided by Expected Amount times 100

Pace Analytical Services, Inc.
Continuing Calibration Verification Summary

Data File : //diana/target/6890q.i/Q42408Pest-2.b/Q5020817.d
Injection Date : 02-MAY-2008 20:11
Sample Info : INDC+ CCV (L3)
Misc. Info : Method 8081
Laboratory ID : INDC+ CCV (L3) Client ID : PX-8-43-9/4
Instrument ID : 6890Q.i
Method : Q42408Pest-2.m Sublist : INDC+
Quantitation : ESTD Integrator : Falcon
Dilution Factor : 1.00 Sample Type: CCALIB_5
Column : RTX-CLP2 Column Size: 30.00m L- 0.32mm ID

Compound	RT	RT Window	Expected Amount	Continuing Amount	%D	Flag
Tetrachloro-m-xylene	7.16	7.12 - 7.22	0.01250	0.01298	3.8	
alpha-BHC	8.40	8.36 - 8.46	0.01000	0.01121	12.1	
gamma-BHC (Lindane)	9.06	9.01 - 9.11	0.01000	0.01102	10.2	
beta-BHC	9.22	9.17 - 9.27	0.01000	0.01030	3.0	
delta-BHC	9.72	9.67 - 9.77	0.01000	0.01063	6.3	
Heptachlor	9.82	9.77 - 9.87	0.01000	0.01126	12.7	
Aldrin	10.35	10.30 - 10.40	0.01000	0.01112	11.2	
Isodrin	10.98	10.91 - 11.05	0.01000	0.01098	9.8	
Heptachlor epoxide	11.27	11.20 - 11.34	0.01000	0.01072	7.2	
gamma-Chlordane	11.56	11.50 - 11.64	0.01000	0.01083	8.3	
alpha-Chlordane	11.79	11.72 - 11.86	0.01000	0.01072	7.2	
Endosulfan I	11.87	11.80 - 11.94	0.01000	0.01059	5.9	
4,4'-DDE	12.06	11.99 - 12.13	0.02000	0.02085	4.3	
Dieldrin	12.28	12.22 - 12.36	0.02000	0.02171	8.6	
Endrin	12.74	12.67 - 12.81	0.02000	0.02003	0.1	
4,4'-DDD	12.92	12.85 - 12.99	0.02000	0.02063	3.2	
Endosulfan II	13.05	12.98 - 13.12	0.02000	0.02125	6.3	
4,4'-DDT	13.38	13.31 - 13.45	0.02000	0.02120	6.0	
Endrin aldehyde	13.54	13.48 - 13.62	0.02000	0.02074	3.7	

%Drift (%D) = Continuing Amount - Expected Amount divided by Expected Amount times 100

Pace Analytical Services, Inc.
Continuing Calibration Verification Summary

Data File : Q5020817.d
Injection Date : 02-MAY-2008 20:11

Compound	RT	RT Window	Expected Amount	Continuing Amount	%D	Flag
Endosulfan sulfate	13.95	13.88 - 14.02	0.02000	0.02086	4.3	
Methoxychlor	14.37	14.30 - 14.44	0.1000	0.1031	3.1	
Endrin ketone	14.73	14.66 - 14.80	0.02000	0.02129	6.5	
Decachlorobiphenyl	16.54	16.44 - 16.64	0.01250	0.01229	-1.7	
Average Percent Difference					6.3	

%Drift (%D) = Continuing Amount - Expected Amount divided by Expected Amount times 100

Pace Analytical Services, Inc.
BATCH SUMMARY (for databatch - \\diana\target\6890q.i\Q42408Pest-2.b)

	Filename	Lab Sample ID	Client Sample ID	SDG	I.V.	D.F.	Inj. Date & Time
1	Q5060803.d	PEM	PX-8-43-7	PEM	2	1	06-MAY-2008 09:38
2	Q5060804.d	INDC+ CCV (L3)	PX-8-43-9/4	CCV	2	1	06-MAY-2008 10:35
3	Q5060805.d	B050508GPXSLG	B050508GPXSLG		1	1	06-MAY-2008 11:41
4	Q5060806.d	S050508GPXSLG	S050508GPXSLG		1	1	06-MAY-2008 12:14
5	Q5060807.d	TT46702-004RX	09SS 128 0002	TT46702	1	20	06-MAY-2008 12:47
6	Q5060808.d	TT46702-008RX	09SS 132 0002	TT46702	1	1	06-MAY-2008 13:20
7	Q5060810.d	TT46702-012RX	09SS 136 0002	TT46702	1	10	06-MAY-2008 14:26
8	Q5060812.d	TT46702-015RX	09SS 139 0002	TT46702	1	2	06-MAY-2008 15:32
9	Q5060813.d	TT46702-015MS	09SS 139 0002MS	TT46702	1	2	06-MAY-2008 16:05
10	Q5060814.d	TT46702-015MSD	09SS 139 0002MSD	TT46702	1	2	06-MAY-2008 16:38
11	Q5060815.d	INDC+ CCV (L3)	PX-8-43-9/4	CCV	2	1	06-MAY-2008 17:11
12	Q5060818.d	TT46701-009RXRX	09SS 117 0002	TT46701	1	1	06-MAY-2008 18:50
13	Q5060819.d	TT46701-010RXRX	09SS 118 0002	TT46701	1	4	06-MAY-2008 19:23
14	Q5060821.d	TT46702-010RX	09SS 134 0002	TT46702	1	20	06-MAY-2008 20:30
15	Q5060822.d	INDC+ CCV (L3)	PX-8-43-9/4	CCV	2	1	06-MAY-2008 21:03

Pace Analytical Services, Inc.
Continuing Calibration Verification Summary

Data File	: //diana/target/6890q.i/Q42408Pest-1.b/Q5060804.d		
Injection Date	: 06-MAY-2008 10:35		
Sample Info	: INDC+ CCV (L3)		
Misc. Info	: Method 8081		
Laboratory ID	: INDC+ CCV (L3)	Client ID	: PX-8-43-9/4
Instrument ID	: 6890Q.i		
Method	: Q42408Pest-1.m	Sublist	: INDC+
Quantitation	: ESTD	Integrator	: Falcon
Dilution Factor	: 1.00	Sample Type	: CCALIB_5
Column	: RTX-CLP	Column Size	: 30.00m L- 0.32mm ID

Compound	RT	RT Window	Expected Amount	Continuing Amount	%D	Flag
Tetrachloro-m-xylene	7.30	7.26 - 7.36	0.01250	0.01355	8.4	
alpha-BHC	8.46	8.41 - 8.51	0.01000	0.01101	10.1	
gamma-BHC (Lindane)	9.06	9.01 - 9.11	0.01000	0.01076	7.6	
beta-BHC	9.22	9.18 - 9.28	0.01000	0.01002	0.2	
delta-BHC	9.54	9.50 - 9.60	0.01000	0.01052	5.2	
Heptachlor	9.90	9.86 - 9.96	0.01000	0.01020	2.0	
Aldrin	10.41	10.36 - 10.46	0.01000	0.01024	2.4	
Isodrin	10.96	10.89 - 11.03	0.01000	0.01008	0.8	
Heptachlor epoxide	11.40	11.33 - 11.47	0.01000	0.01016	1.6	
gamma-Chlordane	11.60	11.53 - 11.67	0.01000	0.01001	0.1	
alpha-Chlordane	11.80	11.74 - 11.88	0.01000	0.01000	0.0	
4,4'-DDE	11.92	11.85 - 11.99	0.02000	0.02037	1.8	
Endosulfan I	12.02	11.95 - 12.09	0.01000	0.01019	1.9	
Dieldrin	12.38	12.32 - 12.46	0.02000	0.02065	3.3	
Endrin	12.74	12.67 - 12.81	0.02000	0.02072	3.6	
4,4'-DDD	12.82	12.76 - 12.90	0.02000	0.02026	1.3	
Endosulfan II	13.08	13.01 - 13.15	0.02000	0.02035	1.7	
4,4'-DDT	13.24	13.17 - 13.31	0.02000	0.01958	-2.1	
Endrin aldehyde	13.70	13.63 - 13.77	0.02000	0.01937	-3.2	

%Drift (%D) = Continuing Amount - Expected Amount divided by Expected Amount times 100

Pace Analytical Services, Inc.
Continuing Calibration Verification Summary

Data File : Q5060804.d
Injection Date : 06-MAY-2008 10:35

Compound	RT	RT Window	Expected Amount	Continuing Amount	%D	Flag
Methoxychlor	13.94	13.87 - 14.01	0.1000	0.09222	-7.8	
Endosulfan sulfate	14.34	14.28 - 14.42	0.02000	0.01917	-4.1	
Endrin Ketone	14.76	14.69 - 14.83	0.02000	0.01918	-4.1	
Decachlorobiphenyl	16.18	16.08 - 16.28	0.01250	0.01039	-16.9	Y
Average Percent Difference					3.9	

%Drift (%D) = Continuing Amount - Expected Amount divided by Expected Amount times 100

Pace Analytical Services, Inc.
Continuing Calibration Verification Summary

Data File : //diana/target/6890q.i/Q42408Pest-2.b/Q5060804.d
Injection Date : 06-MAY-2008 10:35
Sample Info : INDC+ CCV (L3)
Misc. Info : Method 8081
Laboratory ID : INDC+ CCV (L3) Client ID : PX-8-43-9/4
Instrument ID : 6890Q.i
Method : Q42408Pest-2.m Sublist : INDC+
Quantitation : ESTD Integrator : Falcon
Dilution Factor : 1.00 Sample Type: CCALIB_5
Column : RTX-CLP2 Column Size: 30.00m L- 0.32mm ID

Compound	RT	RT Window	Expected Amount	Continuing Amount	%D	Flag
Tetrachloro-m-xylene	7.16	7.12 - 7.22	0.01250	0.01423	13.8	
alpha-BHC	8.40	8.36 - 8.46	0.01000	0.01155	15.5	
gamma-BHC (Lindane)	9.06	9.01 - 9.11	0.01000	0.01110	11.0	
beta-BHC	9.22	9.17 - 9.27	0.01000	0.01044	4.5	
delta-BHC	9.72	9.67 - 9.77	0.01000	0.01069	6.9	
Heptachlor	9.82	9.77 - 9.87	0.01000	0.01090	9.0	
Aldrin	10.35	10.30 - 10.40	0.01000	0.01097	9.7	
Isodrin	10.98	10.91 - 11.05	0.01000	0.01062	6.2	
Heptachlor epoxide	11.27	11.20 - 11.34	0.01000	0.01055	5.5	
gamma-Chlordane	11.56	11.50 - 11.64	0.01000	0.01033	3.3	
alpha-Chlordane	11.79	11.72 - 11.86	0.01000	0.01055	5.5	
Endosulfan I	11.87	11.80 - 11.94	0.01000	0.01036	3.6	
4,4'-DDE	12.06	11.99 - 12.13	0.02000	0.02058	2.9	
Dieldrin	12.28	12.22 - 12.36	0.02000	0.02078	3.9	
Endrin	12.74	12.67 - 12.81	0.02000	0.02032	1.6	
4,4'-DDD	12.92	12.85 - 12.99	0.02000	0.01986	-0.7	
Endosulfan II	13.06	12.98 - 13.12	0.02000	0.02043	2.2	
4,4'-DDT	13.38	13.31 - 13.45	0.02000	0.01980	-1.0	
Endrin aldehyde	13.55	13.48 - 13.62	0.02000	0.02007	0.4	

%Drift (%D) = Continuing Amount - Expected Amount divided by Expected Amount times 100

Pace Analytical Services, Inc.
Continuing Calibration Verification Summary

Data File : Q5060804.d
Injection Date : 06-MAY-2008 10:35

Compound	RT	RT Window	Expected Amount	Continuing Amount	%D	Flag
Endosulfan sulfate	13.96	13.88 - 14.02	0.02000	0.02003	0.2	
Methoxychlor	14.37	14.30 - 14.44	0.1000	0.09622	-3.8	
Endrin ketone	14.73	14.66 - 14.80	0.02000	0.01949	-2.5	
Decachlorobiphenyl	16.54	16.44 - 16.64	0.01250	0.01175	-6.0	
Average Percent Difference					5.2	

%Drift (%D) = Continuing Amount - Expected Amount divided by Expected Amount times 100

Pace Analytical Services, Inc.
Continuing Calibration Verification Summary

Data File : //diana/target/6890q.i/Q42408Pest-1.b/Q5060815.d
Injection Date : 06-MAY-2008 17:11
Sample Info : INDC+ CCV (L3)
Misc. Info : Method 8081
Laboratory ID : INDC+ CCV (L3) Client ID : PX-8-43-9/4
Instrument ID : 6890Q.i
Method : Q42408Pest-1.m Sublist : INDC+
Quantitation : ESTD Integrator : Falcon
Dilution Factor : 1.00 Sample Type: CCALIB_5
Column : RTX-CLP Column Size: 30.00m L- 0.32mm ID

Compound	RT	RT Window	Expected Amount	Continuing Amount	%D	Flag
Tetrachloro-m-xylene	7.29	7.26 - 7.36	0.01250	0.01266	1.3	
alpha-BHC	8.44	8.41 - 8.51	0.01000	0.01044	4.4	
gamma-BHC (Lindane)	9.04	9.01 - 9.11	0.01000	0.01016	1.6	
beta-BHC	9.21	9.18 - 9.28	0.01000	0.009722	-2.8	
delta-BHC	9.52	9.50 - 9.60	0.01000	0.01038	3.8	
Heptachlor	9.88	9.86 - 9.96	0.01000	0.009924	-0.8	
Aldrin	10.39	10.36 - 10.46	0.01000	0.009654	-3.5	
Isodrin	10.94	10.89 - 11.03	0.01000	0.009508	-4.9	
Heptachlor epoxide	11.38	11.33 - 11.47	0.01000	0.009372	-6.3	
gamma-Chlordane	11.58	11.53 - 11.67	0.01000	0.009594	-4.1	
alpha-Chlordane	11.79	11.74 - 11.88	0.01000	0.009291	-7.1	
4,4'-DDE	11.90	11.85 - 11.99	0.02000	0.01914	-4.3	
Endosulfan I	12.00	11.95 - 12.09	0.01000	0.009318	-6.8	
Dieldrin	12.37	12.32 - 12.46	0.02000	0.01872	-6.4	
Endrin	12.72	12.67 - 12.81	0.02000	0.01880	-6.0	
4,4'-DDD	12.81	12.76 - 12.90	0.02000	0.01897	-5.2	
Endosulfan II	13.06	13.01 - 13.15	0.02000	0.01810	-9.5	
4,4'-DDT	13.22	13.17 - 13.31	0.02000	0.01680	-16.0	
Endrin aldehyde	13.68	13.63 - 13.77	0.02000	0.01653	-17.4	

%Drift (%D) = Continuing Amount - Expected Amount divided by Expected Amount times 100

Pace Analytical Services, Inc.
Continuing Calibration Verification Summary

Data File : Q5060815.d
Injection Date : 06-MAY-2008 17:11

Compound	RT	RT Window	Expected Amount	Continuing Amount	%D	Flag
Methoxychlor	13.92	13.87 - 14.01	0.1000	0.08323	-16.8	
Endosulfan sulfate	14.33	14.28 - 14.42	0.02000	0.01723	-13.8	
Endrin Ketone	14.74	14.69 - 14.83	0.02000	0.01760	-12.0	
Decachlorobiphenyl	16.16	16.08 - 16.28	0.01250	0.009050	-27.6	*
Average Percent Difference					7.9	

%Drift (%D) = Continuing Amount - Expected Amount divided by Expected Amount times 100
** = Percent Difference is outside the acceptance limits of +/-15%

Pace Analytical Services, Inc.
Continuing Calibration Verification Summary

Data File : //diana/target/6890q.i/Q42408Pest-2.b/Q5060815.d
Injection Date : 06-MAY-2008 17:11
Sample Info : INDC+ CCV (L3)
Misc. Info : Method 8081
Laboratory ID : INDC+ CCV (L3) Client ID : PX-8-43-9/4
Instrument ID : 6890Q.i
Method : Q42408Pest-2.m Sublist : INDC+
Quantitation : ESTD Integrator : Falcon
Dilution Factor : 1.00 Sample Type: CCALIB_5
Column : RTX-CLP2 Column Size: 30.00m L- 0.32mm ID

Compound	RT	RT Window	Expected Amount	Continuing Amount	%D	Flag
Tetrachloro-m-xylene	7.17	7.12 - 7.22	0.01250	0.01354	8.3	
alpha-BHC	8.41	8.36 - 8.46	0.01000	0.01131	13.1	
gamma-BHC (Lindane)	9.06	9.01 - 9.11	0.01000	0.01112	11.2	
beta-BHC	9.22	9.17 - 9.27	0.01000	0.01058	5.8	
delta-BHC	9.72	9.67 - 9.77	0.01000	0.01092	9.2	
Heptachlor	9.82	9.77 - 9.87	0.01000	0.01121	12.1	
Aldrin	10.35	10.30 - 10.40	0.01000	0.01090	9.0	
Isodrin	10.98	10.91 - 11.05	0.01000	0.01067	6.7	
Heptachlor epoxide	11.27	11.20 - 11.34	0.01000	0.01054	5.4	
gamma-Chlordane	11.57	11.50 - 11.64	0.01000	0.01048	4.8	
alpha-Chlordane	11.79	11.72 - 11.86	0.01000	0.01035	3.5	
Endosulfan I	11.87	11.80 - 11.94	0.01000	0.01038	3.8	
4,4'-DDE	12.06	11.99 - 12.13	0.02000	0.02105	5.3	
Dieldrin	12.29	12.22 - 12.36	0.02000	0.02104	5.2	
Endrin	12.74	12.67 - 12.81	0.02000	0.02100	5.0	
4,4'-DDD	12.92	12.85 - 12.99	0.02000	0.02054	2.7	
Endosulfan II	13.05	12.98 - 13.12	0.02000	0.02010	0.5	
4,4'-DDT	13.37	13.31 - 13.45	0.02000	0.01918	-4.1	
Endrin aldehyde	13.55	13.48 - 13.62	0.02000	0.01892	-5.4	

%Drift (%D) = Continuing Amount - Expected Amount divided by Expected Amount times 100

Pace Analytical Services, Inc.
Continuing Calibration Verification Summary

Data File : Q5060815.d
Injection Date : 06-MAY-2008 17:11

Compound	RT	RT Window	Expected Amount	Continuing Amount	%D	Flag
Endosulfan sulfate	13.95	13.88 - 14.02	0.02000	0.02003	0.1	
Methoxychlor	14.37	14.30 - 14.44	0.1000	0.1012	1.2	
Endrin ketone	14.73	14.66 - 14.80	0.02000	0.01923	-3.8	
Decachlorobiphenyl	16.54	16.44 - 16.64	0.01250	0.01082	-13.4	
Average Percent Difference					6.1	

%Drift (%D) = Continuing Amount - Expected Amount divided by Expected Amount times 100

Pace Analytical Services, Inc.
Continuing Calibration Verification Summary

Data File : //diana/target/6890q.i/Q42408Pest-1.b/Q5060822.d
Injection Date : 06-MAY-2008 21:03
Sample Info : INDC+ CCV (L3)
Misc. Info : Method 8081
Laboratory ID : INDC+ CCV (L3) Client ID : PX-8-43-9/4
Instrument ID : 6890Q.i
Method : Q42408Pest-1.m Sublist : INDC+
Quantitation : ESTD Integrator : Falcon
Dilution Factor : 1.00 Sample Type: CCALIB_5
Column : RTX-CLP Column Size: 30.00m L- 0.32mm ID

Compound	RT	RT Window	Expected Amount	Continuing Amount	%D	Flag
Tetrachloro-m-xylene	7.29	7.26 - 7.36	0.01250	0.01308	4.6	
alpha-BHC	8.44	8.41 - 8.51	0.01000	0.01120	12.0	
gamma-BHC (Lindane)	9.04	9.01 - 9.11	0.01000	0.01087	8.7	
beta-BHC	9.21	9.18 - 9.28	0.01000	0.01034	3.4	
delta-BHC	9.52	9.50 - 9.60	0.01000	0.01098	9.9	
Heptachlor	9.88	9.86 - 9.96	0.01000	0.01038	3.8	
Aldrin	10.39	10.36 - 10.46	0.01000	0.01052	5.2	
Isodrin	10.94	10.89 - 11.03	0.01000	0.01021	2.1	
Heptachlor epoxide	11.38	11.33 - 11.47	0.01000	0.01038	3.8	
gamma-Chlordane	11.58	11.53 - 11.67	0.01000	0.01044	4.4	
alpha-Chlordane	11.78	11.74 - 11.88	0.01000	0.01038	3.8	
4,4'-DDE	11.90	11.85 - 11.99	0.02000	0.02088	4.4	
Endosulfan I	12.00	11.95 - 12.09	0.01000	0.01020	2.0	
Dieldrin	12.37	12.32 - 12.46	0.02000	0.02106	5.3	
Endrin	12.72	12.67 - 12.81	0.02000	0.02076	3.8	
4,4'-DDD	12.81	12.76 - 12.90	0.02000	0.02095	4.8	
Endosulfan II	13.06	13.01 - 13.15	0.02000	0.02012	0.6	
4,4'-DDT	13.22	13.17 - 13.31	0.02000	0.01910	-4.5	
Endrin aldehyde	13.68	13.63 - 13.77	0.02000	0.01911	-4.4	

%Drift (%D) = Continuing Amount - Expected Amount divided by Expected Amount times 100

Pace Analytical Services, Inc.
Continuing Calibration Verification Summary

Data File : Q5060822.d
Injection Date : 06-MAY-2008 21:03

Compound	RT	RT Window	Expected Amount	Continuing Amount	%D	Flag
Methoxychlor	13.92	13.87 - 14.01	0.1000	0.09427	-5.7	
Endosulfan sulfate	14.33	14.28 - 14.42	0.02000	0.01956	-2.2	
Endrin Ketone	14.74	14.69 - 14.83	0.02000	0.01964	-1.8	
Decachlorobiphenyl	16.16	16.08 - 16.28	0.01250	0.01052	-15.8	X
Average Percent Difference					5.1	

%Drift (%D) = Continuing Amount - Expected Amount divided by Expected Amount times 100

Pace Analytical Services, Inc.
Continuing Calibration Verification Summary

Data File : //diana/target/6890q.i/Q42408Pest-2.b/Q5060822.d
Injection Date : 06-MAY-2008 21:03
Sample Info : INDC+ CCV (L3)
Misc. Info : Method 8081
Laboratory ID : INDC+ CCV (L3) Client ID : PX-8-43-9/4
Instrument ID : 6890Q.i
Method : Q42408Pest-2.m Sublist : INDC+
Quantitation : ESTD Integrator : Falcon
Dilution Factor : 1.00 Sample Type: CCALIB_5
Column : RTX-CLP2 Column Size: 30.00m L- 0.32mm ID

Compound	RT	RT Window	Expected Amount	Continuing Amount	%D	Flag
Tetrachloro-m-xylene	7.17	7.12 - 7.22	0.01250	0.01374	9.9	
alpha-BHC	8.41	8.36 - 8.46	0.01000	0.01174	17.4	
gamma-BHC (Lindane)	9.06	9.01 - 9.11	0.01000	0.01155	15.5	
beta-BHC	9.22	9.17 - 9.27	0.01000	0.01079	7.9	
delta-BHC	9.72	9.67 - 9.77	0.01000	0.01128	12.8	
Heptachlor	9.82	9.77 - 9.87	0.01000	0.01154	15.4	
Aldrin	10.35	10.30 - 10.40	0.01000	0.01136	13.6	
Isodrin	10.98	10.91 - 11.05	0.01000	0.01117	11.7	
Heptachlor epoxide	11.27	11.20 - 11.34	0.01000	0.01119	11.9	
gamma-Chlordane	11.56	11.50 - 11.64	0.01000	0.01106	10.6	
alpha-Chlordane	11.79	11.72 - 11.86	0.01000	0.01113	11.3	
Endosulfan I	11.87	11.80 - 11.94	0.01000	0.01108	10.8	
4,4'-DDE	12.06	11.99 - 12.13	0.02000	0.02221	11.0	
Dieldrin	12.28	12.22 - 12.36	0.02000	0.02289	14.5	
Endrin	12.74	12.67 - 12.81	0.02000	0.02194	9.7	
4,4'-DDD	12.91	12.85 - 12.99	0.02000	0.02235	11.8	
Endosulfan II	13.05	12.98 - 13.12	0.02000	0.02191	9.5	
4,4'-DDT	13.37	13.31 - 13.45	0.02000	0.02140	7.0	
Endrin aldehyde	13.55	13.48 - 13.62	0.02000	0.02082	4.1	

%Drift (%D) = Continuing Amount - Expected Amount divided by Expected Amount times 100

Pace Analytical Services, Inc.
Continuing Calibration Verification Summary

Data File : Q5060822.d
Injection Date : 06-MAY-2008 21:03

Compound	RT	RT Window	Expected Amount	Continuing Amount	%D	Flag
Endosulfan sulfate	13.95	13.88 - 14.02	0.02000	0.02144	7.2	
Methoxychlor	14.37	14.30 - 14.44	0.1000	0.1097	9.7	
Endrin ketone	14.73	14.66 - 14.80	0.02000	0.02159	7.9	
Decachlorobiphenyl	16.54	16.44 - 16.64	0.01250	0.01253	0.3	
Average Percent Difference					10.5	

%Drift (%D) = Continuing Amount - Expected Amount divided by Expected Amount times 100

Pace Analytical Services, Inc.
BATCH SUMMARY (for databatch - \\diana\target\6890q.i\Q42408Pest-1.b)

	Filename	Lab Sample ID	Client Sample ID	SDG	I.V.	D.F.	Inj. Date & Time
1	Q5070803.d	PEM	PX-8-43-7	PEM	2	1	07-MAY-2008 09:51
2	Q5070804.d	INDC+ CCV (L3)	PX-8-43-9/4	CCV	2	1	07-MAY-2008 10:24
3	Q5070805.d	TT46702-014RX	09SS 138 0002	TT46702	1	10	07-MAY-2008 11:03
4	Q5070806.d	TT46701-003RXRX	09SS 111 0002	TT46701	1	10000	07-MAY-2008 11:36
5	Q5070807.d	TT46701-008RXRX	09SS 116 0002	TT46701	1	50	07-MAY-2008 12:09
6	Q5070808.d	TT46701-017RXRX	09FD04070801	TT46701	1	100	07-MAY-2008 12:42
7	Q5070809.d	INDC+ CCV (L3)	PX-8-43-9/4	CCV	2	1	07-MAY-2008 13:15

I.V. = Inj.Vol. per Column Batch Summary Ver 2.0 9-5-2002

Pace Analytical Services, Inc.
Continuing Calibration Verification Summary

Data File : //diana/target/6890q.i/Q42408Pest-1.b/Q5070804.d
Injection Date : 07-MAY-2008 10:24
Sample Info : INDC+ CCV (L3)
Misc. Info : Method 8081
Laboratory ID : INDC+ CCV (L3) Client ID : PX-8-43-9/4
Instrument ID : 6890Q.i
Method : Q42408Pest-1.m Sublist : INDC+
Quantitation : ESTD Integrator : Falcon
Dilution Factor : 1.00 Sample Type: CCALIB_5
Column : RTX-CLP Column Size: 30.00m L- 0.32mm ID

Compound	RT	RT Window	Expected Amount	Continuing Amount	%D	Flag
Tetrachloro-m-xylene	7.29	7.26 - 7.36	0.01250	0.01333	6.6	
alpha-BHC	8.44	8.41 - 8.51	0.01000	0.01113	11.3	
gamma-BHC (Lindane)	9.04	9.01 - 9.11	0.01000	0.01088	8.8	
beta-BHC	9.21	9.18 - 9.28	0.01000	0.01014	1.4	
delta-BHC	9.52	9.50 - 9.60	0.01000	0.01066	6.6	
Heptachlor	9.88	9.86 - 9.96	0.01000	0.01014	1.5	
Aldrin	10.39	10.36 - 10.46	0.01000	0.01034	3.4	
Isodrin	10.94	10.89 - 11.03	0.01000	0.01009	0.9	
Heptachlor epoxide	11.38	11.33 - 11.47	0.01000	0.01008	0.8	
gamma-Chlordane	11.58	11.53 - 11.67	0.01000	0.01009	0.9	
alpha-Chlordane	11.78	11.74 - 11.88	0.01000	0.009898	-1.0	
4,4'-DDE	11.90	11.85 - 11.99	0.02000	0.01995	-0.2	
Endosulfan I	12.00	11.95 - 12.09	0.01000	0.009836	-1.6	
Dieldrin	12.37	12.32 - 12.46	0.02000	0.02008	0.4	
Endrin	12.72	12.67 - 12.81	0.02000	0.02029	1.4	
4,4'-DDD	12.81	12.76 - 12.90	0.02000	0.02012	0.6	
Endosulfan II	13.06	13.01 - 13.15	0.02000	0.01927	-3.7	
4,4'-DDT	13.22	13.17 - 13.31	0.02000	0.01782	-10.9	
Endrin aldehyde	13.68	13.63 - 13.77	0.02000	0.01782	-10.9	

%Drift (%D) = Continuing Amount - Expected Amount divided by Expected Amount times 100

Pace Analytical Services, Inc.
Continuing Calibration Verification Summary

Data File : Q5070804.d
Injection Date : 07-MAY-2008 10:24

Compound	RT	RT Window	Expected Amount	Continuing Amount	%D	Flag
Methoxychlor	13.92	13.87 - 14.01	0.1000	0.08540	-14.6	
Endosulfan sulfate	14.33	14.28 - 14.42	0.02000	0.01872	-6.4	
Endrin Ketone	14.74	14.69 - 14.83	0.02000	0.01879	-6.1	
Decachlorobiphenyl	16.16	16.08 - 16.28	0.01250	0.01001	-19.9	X
Average Percent Difference					5.2	

%Drift (%D) = Continuing Amount - Expected Amount divided by Expected Amount times 100

Pace Analytical Services, Inc.
Continuing Calibration Verification Summary

Data File	: //diana/target/6890q.i/Q42408Pest-2.b/Q5070804.d		
Injection Date	: 07-MAY-2008 10:24		
Sample Info	: INDC+ CCV (L3)		
Misc. Info	: Method 8081		
Laboratory ID	: INDC+ CCV (L3)	Client ID	: PX-8-43-9/4
Instrument ID	: 6890Q.i		
Method	: Q42408Pest-2.m	Sublist	: INDC+
Quantitation	: ESTD	Integrator	: Falcon
Dilution Factor	: 1.00	Sample Type	: CCALIB_5
Column	: RTX-CLP2	Column Size	: 30.00m L- 0.32mm ID

Compound	RT	RT Window	Expected Amount	Continuing Amount	%D	Flag
Tetrachloro-m-xylene	7.17	7.12 - 7.22	0.01250	0.01343	7.4	
alpha-BHC	8.41	8.36 - 8.46	0.01000	0.01100	10.0	
gamma-BHC (Lindane)	9.06	9.01 - 9.11	0.01000	0.01100	10.0	
beta-BHC	9.22	9.17 - 9.27	0.01000	0.01030	3.0	
delta-BHC	9.72	9.67 - 9.77	0.01000	0.01064	6.4	
Heptachlor	9.82	9.77 - 9.87	0.01000	0.01092	9.2	
Aldrin	10.36	10.30 - 10.40	0.01000	0.01079	7.9	
Isodrin	10.98	10.91 - 11.05	0.01000	0.01075	7.5	
Heptachlor epoxide	11.27	11.20 - 11.34	0.01000	0.01060	6.0	
gamma-Chlordane	11.56	11.50 - 11.64	0.01000	0.01031	3.1	
alpha-Chlordane	11.79	11.72 - 11.86	0.01000	0.01053	5.3	
Endosulfan I	11.87	11.80 - 11.94	0.01000	0.01048	4.8	
4,4'-DDE	12.06	11.99 - 12.13	0.02000	0.02066	3.3	
Dieldrin	12.28	12.22 - 12.36	0.02000	0.02068	3.4	
Endrin	12.74	12.67 - 12.81	0.02000	0.02036	1.8	
4,4'-DDD	12.92	12.85 - 12.99	0.02000	0.02079	4.0	
Endosulfan II	13.05	12.98 - 13.12	0.02000	0.02048	2.4	
4,4'-DDT	13.38	13.31 - 13.45	0.02000	0.01940	-3.0	
Endrin aldehyde	13.55	13.48 - 13.62	0.02000	0.01877	-6.2	

%Drift (%D) = Continuing Amount - Expected Amount divided by Expected Amount times 100

Pace Analytical Services, Inc.
Continuing Calibration Verification Summary

Data File : Q5070804.d
Injection Date : 07-MAY-2008 10:24

Compound	RT	RT Window	Expected Amount	Continuing Amount	%D	Flag
Endosulfan sulfate	13.95	13.88 - 14.02	0.02000	0.02060	3.0	
Methoxychlor	14.37	14.30 - 14.44	0.1000	0.09744	-2.6	
Endrin ketone	14.73	14.66 - 14.80	0.02000	0.02043	2.2	
Decachlorobiphenyl	16.54	16.44 - 16.64	0.01250	0.01183	-5.3	
Average Percent Difference					5.1	

%Drift (%D) = Continuing Amount - Expected Amount divided by Expected Amount times 100

Pace Analytical Services, Inc.
Continuing Calibration Verification Summary

Data File : //diana/target/6890q.i/Q42408Pest-1.b/Q5070809.d
Injection Date : 07-MAY-2008 13:15
Sample Info : INDC+ CCV (L3)
Misc. Info : Method 8081
Laboratory ID : INDC+ CCV (L3) Client ID : PX-8-43-9/4
Instrument ID : 6890Q.i
Method : Q42408Pest-1.M Sublist : INDC+
Quantitation : ESTD Integrator : Falcon
Dilution Factor : 1.00 Sample Type: CCALIB_5
Column : RTX-CLP Column Size: 30.00m L- 0.32mm ID

Compound	RT	RT Window	Expected Amount	Continuing Amount	%D	Flag
Tetrachloro-m-xylene	7.29	7.26 - 7.36	0.01250	0.01307	4.6	
alpha-BHC	8.44	8.41 - 8.51	0.01000	0.01065	6.5	
gamma-BHC (Lindane)	9.04	9.01 - 9.11	0.01000	0.01047	4.7	
beta-BHC	9.21	9.18 - 9.28	0.01000	0.009950	-0.5	
delta-BHC	9.52	9.50 - 9.60	0.01000	0.01021	2.1	
Heptachlor	9.88	9.86 - 9.96	0.01000	0.01007	0.7	
Aldrin	10.39	10.36 - 10.46	0.01000	0.01018	1.8	
Isodrin	10.94	10.89 - 11.03	0.01000	0.01017	1.7	
Heptachlor epoxide	11.38	11.33 - 11.47	0.01000	0.009895	-1.0	
gamma-Chlordane	11.58	11.53 - 11.67	0.01000	0.009721	-2.8	
alpha-Chlordane	11.79	11.74 - 11.88	0.01000	0.009823	-1.8	
4,4'-DDE	11.91	11.85 - 11.99	0.02000	0.01967	-1.6	
Endosulfan I	12.00	11.95 - 12.09	0.01000	0.009838	-1.6	
Dieldrin	12.37	12.32 - 12.46	0.02000	0.01969	-1.6	
Endrin	12.72	12.67 - 12.81	0.02000	0.01916	-4.2	
4,4'-DDD	12.81	12.76 - 12.90	0.02000	0.01910	-4.5	
Endosulfan II	13.06	13.01 - 13.15	0.02000	0.01860	-7.0	
4,4'-DDT	13.22	13.17 - 13.31	0.02000	0.01678	-16.3	
Endrin aldehyde	13.69	13.63 - 13.77	0.02000	0.01669	-16.5	

%Drift (%D) = Continuing Amount - Expected Amount divided by Expected Amount times 100

Pace Analytical Services, Inc.
Continuing Calibration Verification Summary

Data File : Q5070809.d
Injection Date : 07-MAY-2008 13:15

Compound	RT	RT Window	Expected Amount	Continuing Amount	%D	Flag
Methoxychlor	13.92	13.87 - 14.01	0.1000	0.08383	-16.2	
Endosulfan sulfate	14.33	14.28 - 14.42	0.02000	0.01793	-10.3	
Endrin Ketone	14.74	14.69 - 14.83	0.02000	0.01808	-9.6	
Decachlorobiphenyl	16.16	16.08 - 16.28	0.01250	0.01010	-19.2	
Average Percent Difference					5.9	

%Drift (%D) = Continuing Amount - Expected Amount divided by Expected Amount times 100

Pace Analytical Services, Inc.
Continuing Calibration Verification Summary

Data File : //diana/target/6890q.i/Q42408Pest-2.b/Q5070809.d
Injection Date : 07-MAY-2008 13:15
Sample Info : INDC+ CCV (L3)
Misc. Info : Method 8081
Laboratory ID : INDC+ CCV (L3) Client ID : PX-8-43-9/4
Instrument ID : 6890Q.i
Method : Q42408Pest-2.m Sublist : INDC+
Quantitation : ESTD Integrator : Falcon
Dilution Factor : 1.00 Sample Type: CCALIB_5
Column : RTX-CLP2 Column Size: 30.00m L- 0.32mm ID

Compound	RT	RT Window	Expected Amount	Continuing Amount	%D	Flag
Tetrachloro-m-xylene	7.17	7.12 - 7.22	0.01250	0.01357	8.5	
alpha-BHC	8.41	8.36 - 8.46	0.01000	0.01132	13.2	
gamma-BHC (Lindane)	9.06	9.01 - 9.11	0.01000	0.01121	12.1	
beta-BHC	9.22	9.17 - 9.27	0.01000	0.01045	4.5	
delta-BHC	9.72	9.67 - 9.77	0.01000	0.01085	8.5	
Heptachlor	9.82	9.77 - 9.87	0.01000	0.01115	11.5	
Aldrin	10.35	10.30 - 10.40	0.01000	0.01095	9.5	
Isodrin	10.98	10.91 - 11.05	0.01000	0.01078	7.9	
Heptachlor epoxide	11.27	11.20 - 11.34	0.01000	0.01066	6.6	
gamma-Chlordane	11.57	11.50 - 11.64	0.01000	0.01043	4.3	
alpha-Chlordane	11.79	11.72 - 11.86	0.01000	0.01059	5.9	
Endosulfan I	11.87	11.80 - 11.94	0.01000	0.01060	6.0	
4,4'-DDE	12.06	11.99 - 12.13	0.02000	0.02077	3.9	
Dieldrin	12.28	12.22 - 12.36	0.02000	0.02124	6.2	
Endrin	12.74	12.67 - 12.81	0.02000	0.02068	3.4	
4,4'-DDD	12.91	12.85 - 12.99	0.02000	0.02037	1.8	
Endosulfan II	13.05	12.98 - 13.12	0.02000	0.02060	3.0	
4,4'-DDT	13.37	13.31 - 13.45	0.02000	0.01887	-5.6	
Endrin aldehyde	13.55	13.48 - 13.62	0.02000	0.01831	-8.4	

%Drift (%D) = Continuing Amount - Expected Amount divided by Expected Amount times 100

Pace Analytical Services, Inc.
Continuing Calibration Verification Summary

Data File : Q5070809.d
Injection Date : 07-MAY-2008 13:15

Compound	RT	RT Window	Expected Amount	Continuing Amount	%D	Flag
Endosulfan sulfate	13.95	13.88 - 14.02	0.02000	0.01993	-0.3	
Methoxychlor	14.37	14.30 - 14.44	0.1000	0.09683	-3.2	
Endrin ketone	14.73	14.66 - 14.80	0.02000	0.01990	-0.5	
Decachlorobiphenyl	16.54	16.44 - 16.64	0.01250	0.01196	-4.3	
Average Percent Difference					6.1	

%Drift (%D) = Continuing Amount - Expected Amount divided by Expected Amount times 100

10 A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

CLIENT SAMPLE NO.
09SS 125 0002

Lab Name: Pace Analytical Services, Inc. Contract:

Run Sequence: R027799 SDG No.: TT46702

Lab Sample ID: TT46702-001 Date Analyzed: 05/02/2008

Instrument ID (1): HP6890Q Instrument ID (2): HP6890Q

GC Column (1): RTX-CLP ID: 0.32 (mm) GC Column (2): RTX-CLPII ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	RPD*
GAMMA-BHC	1	9.051			510	15.3
	2	9.061			590	
HEPTACHLOR EPOXIDE	1	11.391			720	33.5
	2	11.271			510	
4,4'-DDE	1	11.918			1200	2.9
	2	12.058			1300	
4,4'-DDT	1	13.234			5100	8.1
	2	13.374			5600	
ALPHA-CHLORDANE	1	11.794			15000	1.1
	2	11.791			15000	
GAMMA-CHLORDANE	1	11.588			15000	5.4
	2	11.564			15000	

* = RPD is calculated using unrounded numbers

10 A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

CLIENT SAMPLE NO.
09SS 126 0002

Lab Name: Pace Analytical Services, Inc. Contract:

Run Sequence: R027799 SDG No.: TT46702

Lab Sample ID: TT46702-002 Date Analyzed: 05/02/2008

Instrument ID (1): HP6890Q Instrument ID (2): HP6890Q

GC Column (1): RTX-CLP ID: 0.32 (mm) GC Column (2): RTX-CLPII ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	RPD*
			FROM	TO		
4,4'-DDT	1	13.245			810000	6.1
	2	13.375			860000	

* = RPD is calculated using unrounded numbers

10 A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

CLIENT SAMPLE NO.
09SS 127 0002

Lab Name: Pace Analytical Services, Inc. Contract:

Run Sequence: R027799 SDG No.: TT46702

Lab Sample ID: TT46702-003 Date Analyzed: 05/02/2008

Instrument ID (1): HP6890Q Instrument ID (2): HP6890Q

GC Column (1): RTX-CLP ID: 0.32 (mm) GC Column (2): RTX-CLPII ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	RPD*
4,4'-DDT	1	13.240			90000	7.8
	2	13.376			97000	
ALPHA-CHLORDANE	1	11.800			32000	7.6
	2	11.790			35000	
GAMMA-CHLORDANE	1	11.593			33000	10.2
	2	11.566			36000	

* = RPD is calculated using unrounded numbers

10 A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

CLIENT SAMPLE NO.
09SS 128 0002RX

Lab Name: Pace Analytical Services, Inc. Contract:

Run Sequence: R027909 SDG No.: TT46702

Lab Sample ID: TT46702-004RX Date Analyzed: 05/06/2008

Instrument ID (1): HP6890Q Instrument ID (2): HP6890Q

GC Column (1): RTX-CLP ID: 0.32 (mm) GC Column (2): RTX-CLPII ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	RPD*
4,4'-DDE	1	11.907			1500	6.3
	2	12.061			1600	
4,4'-DDT	1	13.224			2900	0.9
	2	13.374			3000	

* = RPD is calculated using unrounded numbers

10 A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

CLIENT SAMPLE NO.
09SS 130 0002

Lab Name: Pace Analytical Services, Inc. Contract:

Run Sequence: R027799 SDG No.: TT46702

Lab Sample ID: TT46702-006 Date Analyzed: 05/02/2008

Instrument ID (1): HP6890Q Instrument ID (2): HP6890Q

GC Column (1): RTX-CLP ID: 0.32 (mm) GC Column (2): RTX-CLPII ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	RPD*
4,4'-DDE	1	11.917			1920	17.3
	2	12.057			2300	
4,4'-DDT	1	13.237			20000	8.1
	2	13.374			21000	
ALPHA-CHLORDANE	1	11.797			1400	12.6
	2	11.790			1600	
GAMMA-CHLORDANE	1	11.590			1500	6.0
	2	11.564			1500	

* = RPD is calculated using unrounded numbers

10 A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

CLIENT SAMPLE NO.
09SS 131 0002

Lab Name: Pace Analytical Services, Inc.
Contract:
Run Sequence: R027799
SDG No.: TT46702
Lab Sample ID: TT46702-007
Date Analyzed: 05/02/2008
Instrument ID (1): HP6890Q
Instrument ID (2): HP6890Q
GC Column (1): RTX-CLP ID: 0.32 (mm)
GC Column (2): RTX-CLPII ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	RPD*
4,4'-DDT	1	13.238			29000	9.6
	2	13.378			32000	
ALPHA-CHLORDANE	1	11.801			39000	1.3
	2	11.791			39000	
GAMMA-CHLORDANE	1	11.594			38000	8.4
	2	11.568			41000	

* = RPD is calculated using unrounded numbers

10 A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

CLIENT SAMPLE NO.
09SS 132 0002RX

Lab Name: Pace Analytical Services, Inc. Contract:

Run Sequence: R027909 SDG No.: TT46702

Lab Sample ID: TT46702-008RX Date Analyzed: 05/06/2008

Instrument ID (1): HP6890Q Instrument ID (2): HP6890Q

GC Column (1): RTX-CLP ID: 0.32 (mm) GC Column (2): RTX-CLPII ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	RPD*
4,4'-DDE	1	11.905			4.6	12.0
	2	12.058			5.2	
4,4'-DDT	1	13.222			21	6.7
	2	13.378			19	

* = RPD is calculated using unrounded numbers

10 A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

CLIENT SAMPLE NO.
09SS 133 0002

Lab Name: Pace Analytical Services, Inc. Contract:

Run Sequence: R027799 SDG No.: TT46702

Lab Sample ID: TT46702-009 Date Analyzed: 05/02/2008

Instrument ID (1): HP6890Q Instrument ID (2): HP6890Q

GC Column (1): RTX-CLP ID: 0.32 (mm) GC Column (2): RTX-CLPII ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	RPD*
			FROM	TO		
4,4'-DDT	1	13.237			9800000	6.4
	2	13.374			10000000	

* = RPD is calculated using unrounded numbers

10 A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

CLIENT SAMPLE NO.
09SS 134 0002RX

Lab Name: Pace Analytical Services, Inc. Contract:

Run Sequence: R027909 SDG No.: TT46702

Lab Sample ID: TT46702-010RX Date Analyzed: 05/06/2008

Instrument ID (1): HP6890Q Instrument ID (2): HP6890Q

GC Column (1): RTX-CLP ID: 0.32 (mm) GC Column (2): RTX-CLPII ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	RPD*
4,4'-DDE	1	11.907			340	8.0
	2	12.060			370	
4,4'-DDT	1	13.223			290	12.4
	2	13.373			330	

* = RPD is calculated using unrounded numbers

10 A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

CLIENT SAMPLE NO.
09SS 136 0002RX

Lab Name: Pace Analytical Services, Inc. Contract:

Run Sequence: R027909 SDG No.: TT46702

Lab Sample ID: TT46702-012RX Date Analyzed: 05/06/2008

Instrument ID (1): HP6890Q Instrument ID (2): HP6890Q

GC Column (1): RTX-CLP ID: 0.32 (mm) GC Column (2): RTX-CLPII ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	RPD*
			FROM	TO		
4,4'-DDT	1	13.225			2000	3.6
	2	13.375			2100	

* = RPD is calculated using unrounded numbers

10 A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

CLIENT SAMPLE NO.
09SS 137 0002

Lab Name: Pace Analytical Services, Inc. Contract:

Run Sequence: R027799 SDG No.: TT46702

Lab Sample ID: TT46702-013 Date Analyzed: 05/02/2008

Instrument ID (1): HP6890Q Instrument ID (2): HP6890Q

GC Column (1): RTX-CLP ID: 0.32 (mm) GC Column (2): RTX-CLPII ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	RPD*
4,4'-DDD	1	12.827			410000	15.6
	2	12.917			480000	
4,4'-DDT	1	13.237			1700000	6.4
	2	13.374			1800000	
ALPHA-CHLORDANE	1	11.800			130000	13.1
	2	11.790			140000	
GAMMA-CHLORDANE	1	11.590			150000	13.1
	2	11.567			170000	

* = RPD is calculated using unrounded numbers

10 A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

CLIENT SAMPLE NO.
09SS 138 0002RX

Lab Name: Pace Analytical Services, Inc. Contract:

Run Sequence: R027909 SDG No.: TT46702

Lab Sample ID: TT46702-014RX Date Analyzed: 05/07/2008

Instrument ID (1): HP6890Q Instrument ID (2): HP6890Q

GC Column (1): RTX-CLP ID: 0.32 (mm) GC Column (2): RTX-CLPII ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	RPD*
4,4'-DDE	1	11.909			84	8.7
	2	12.056			91	
4,4'-DDT	1	13.226			150	1.1
	2	13.376			150	

* = RPD is calculated using unrounded numbers

10 A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

CLIENT SAMPLE NO.
09SS 139 0002RX

Lab Name: Pace Analytical Services, Inc.
Contract:
Run Sequence: R027909
SDG No.: TT46702
Lab Sample ID: TT46702-015RX
Date Analyzed: 05/06/2008
Instrument ID (1): HP6890Q
Instrument ID (2): HP6890Q
GC Column (1): RTX-CLP ID: 0.32 (mm)
GC Column (2): RTX-CLPII ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	RPD*
4,4'-DDE	1	11.903			470	7.6
	2	12.056			510	
4,4'-DDT	1	13.219			970	9.2
	2	13.373			1100	
ALPHA-CHLORDANE	1	11.783			91	8.1
	2	11.789			99	
GAMMA-CHLORDANE	1	11.576			80	13.6
	2	11.566			92	

* = RPD is calculated using unrounded numbers

TETRA TECH NUS, INC. **CALCULATION WORKSHEET** PAGE 1 OF 1

CLIENT Navy		JOB NUMBER CTO = 467 SDG = TT46702	
SUBJECT Sample Result Verification			
BASED ON Laboratory Raw Data		DRAWING NUMBER N/A	
BY MDK	CHECKED BY	APPROVED BY	DATE 6/19/08

Sample: 09SS 126 0002
[4,4-DDT] = 860,000 ug/Kg as reported by the laboratory.

Instrument Response (Column = RTX-CLP2) = 4561810

Corresponding Initial calibration response = 644970800

$\frac{4561810}{644970800}$ = 0.00707 ng on column.

$$\frac{0.00707\,ng \cdot 10{,}000\,(\text{Dilution factor}) \cdot 10{,}000\,uL\,(\text{extract})}{0.5\,uL\,(\text{vol. injected}) \cdot 2.160\,g\,(\text{soil weight extracted}) \cdot 0.756\,(\%\,\text{solid})}$$

$$= \frac{707000}{0.81864} = \boxed{863627\ ug/Kg}$$

1

PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

09SS 126 0002

Lab Name: Pace Analytical Services, In

Contract: N/A

SDG No.: TT46702

Run Sequence: R027799

Matrix: (SOIL/WATER) Soil

Lab Sample ID: TT46702-002

Sample wt/vol: 2.16 (g/mL) gm

Lab File ID: Q5020808.d

% Moisture: 24.2 Decanted: (Y/N) N

Date Collected: 04/08/2008

Extraction: (Type) PFEX

Date Extracted: 05/01/2008

Concentrated Extract Volume: 10000.0 (uL)

Date Analyzed: 05/02/2008

Injection Volume: 0.5 (uL)

Dilution Factor: 10000.0

GPC Cleanup: (Y/N) N pH:

Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
319-84-6	ALPHA-BHC	120000	U
319-85-7	BETA-BHC	120000	U
319-86-8	DELTA-BHC	120000	U
58-89-9	GAMMA-BHC	120000	U
76-44-8	HEPTACHLOR	120000	U
309-00-2	ALDRIN	120000	U
1024-57-3	HEPTACHLOR EPOXIDE	120000	U
959-98-8	ENDOSULFAN I	120000	U
60-57-1	DIELDRIN	250000	U
72-55-9	4,4'-DDE	250000	U
72-20-8	ENDRIN	250000	U
33213-65-9	ENDOSULFAN II	250000	U
72-54-8	4,4'-DDD	250000	U
1031-07-8	ENDOSULFAN SULFATE	250000	U
50-29-3	4,4'-DDT	860000	
72-43-5	METHOXYCHLOR	1200000	U
7421-93-4	ENDRIN ALDEHYDE	250000	U
5103-71-9	ALPHA-CHLORDANE	120000	U
53494-70-5	ENDRIN KETONE	250000	U
5103-74-2	GAMMA-CHLORDANE	120000	U
8001-35-2	TOXAPHENE	16000000	U

Comments:

10 A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

CLIENT SAMPLE NO.
09SS 126 0002

Lab Name: Pace Analytical Services, Inc. Contract:

Run Sequence: R027799 SDG No.: TT46702

Lab Sample ID: TT46702-002 Date Analyzed: 05/02/2008

Instrument ID (1): HP6890Q Instrument ID (2): HP6890Q

GC Column (1): RTX-CLP ID: 0.32 (mm) GC Column (2): RTX-CLPII ID: 0.32 (mm)

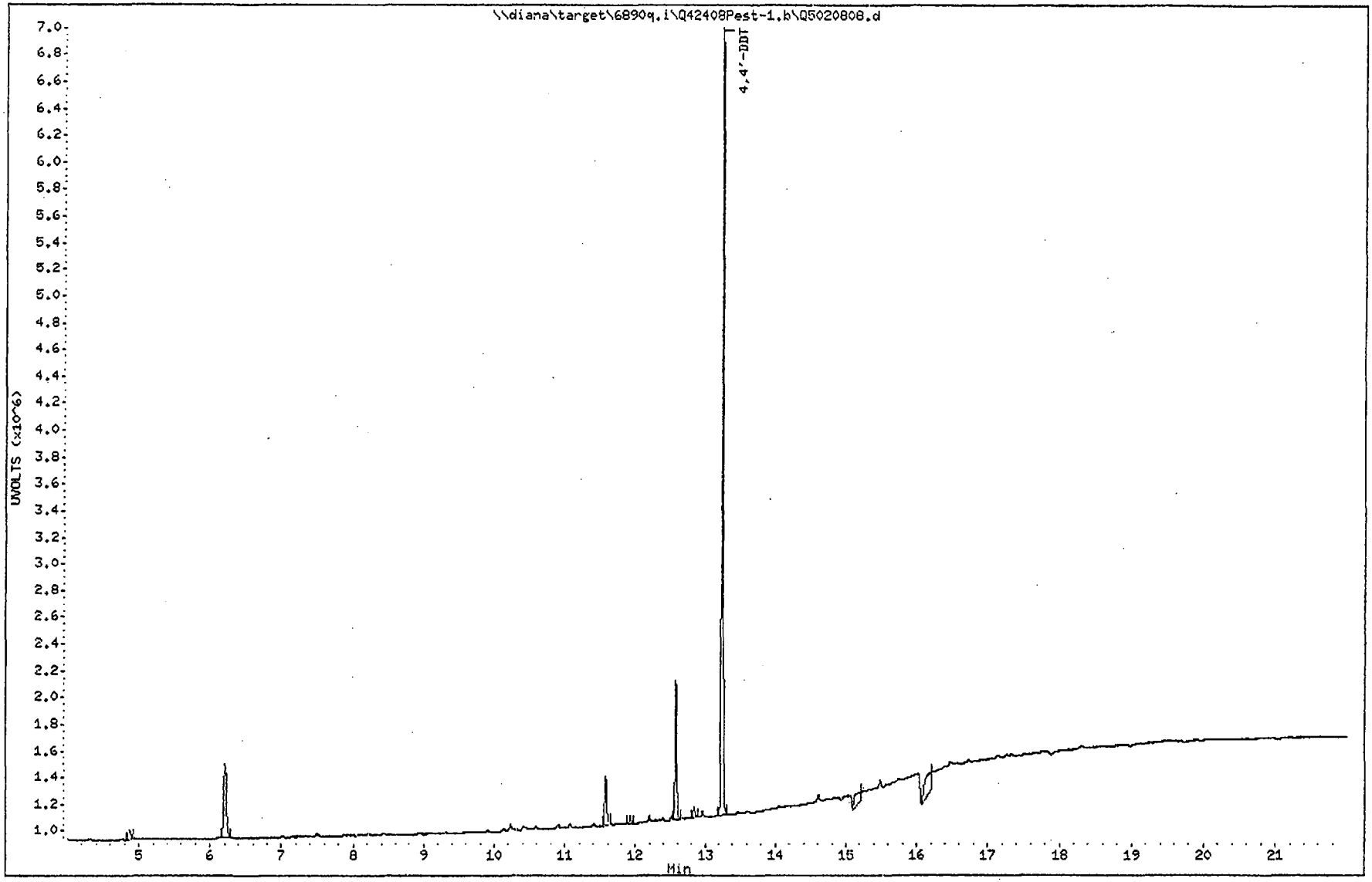
ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	RPD*
			FROM	TO		
4,4'-DDT	1	13.245			810000	6.1
	2	13.375			860000	

* = RPD is calculated using unrounded numbers

Data File: \\diana\target\6890q.i\Q42408Pest-1.b\Q5020808.d
Date : 02-MAY-2008 15:14
Client ID: 09SS 126 0002
Sample Info: TT46702-002
Volume Injected (uL): 0.5
Column phase: RTX-CLP

Instrument: 6890Q.i
Operator: GailR
Column diameter: 0.32

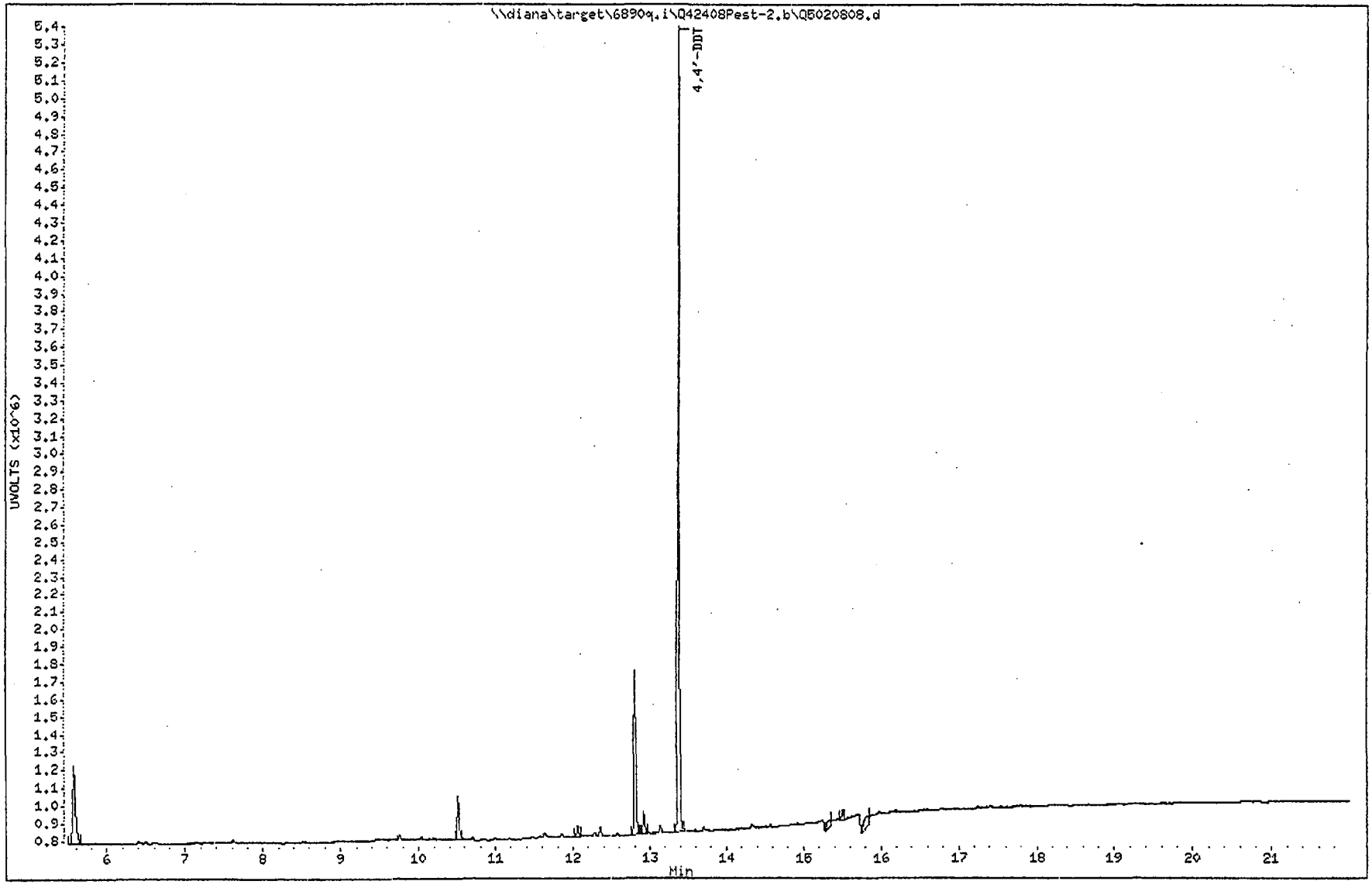
PEST - 20



Data File: \\diana\target\6890q.i\Q42408Pest-2.b\Q5020808.d
Date : 02-MAY-2008 15:14
Client ID: 09SS 126 0002
Sample Info: TT46702-002
Volume Injected (uL): 0.5
Column phase: RTX-CLP2

Instrument: 6890Q.i

Operator: GailR
Column diameter: 0.32



PEST - 21

Data File: \\diana\target\6890q.i\Q42408Pest-1.b\Q5020808.d
Report Date: 05-May-2008 09:01

Pace Analytical Services, Inc.

0.5uL RTX-CLP 30m x 0.32mm x 0.50um

Data file : \\diana\target\6890q.i\Q42408Pest-1.b\Q5020808.d
Lab Smp Id: TT46702-002 Client Smp ID: 09SS 126 0002
Inj Date : 02-MAY-2008 15:14
Operator : GailR Inst ID: 6890Q.i
Smp Info : TT46702-002
Misc Info : Method 8081
Comment :
Method : \\diana\target\6890q.i\Q42408Pest-1.b\Q42408Pest-1.m
Meth Date : 05-May-2008 08:10 gailr Quant Type: ESTD
Cal Date : 24-APR-2008 15:34 Cal File: Q4240810.d
Als bottle: 1
Dil Factor: 10000.00000 Sample Compound Amounts Loaded
Integrator: Falcon Compound Sublist: 8081.sub
Target Version: 4.03 Sample Matrix: SOIL
Processing Host: TARGET01

Concentration Formula: Amt * DF * Uf * Vt*GPC/(Vi * Ws * (100 - M)/100)

Name	Value	Description
DF	10000.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)(1000 low, 2
GPC	1.000	GPC Factor
Vi	0.500	Volume injected (uL)
Ws	2.160	Weight of sample extracted (g)
M	24.200	% Moisture

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
60 4,4'-DDT					CAS #: 50-29-3		
13.245	13.243	0.002	5888872	0.00665	813000		

Data File: \\diana\target\6890q.i\Q42408Pest-2.b\Q5020808.d
Report Date: 05-May-2008 09:06

Pace Analytical Services, Inc.

0.5ul RTX-CLP2 30m x 0.32mm x 0.25um

Data file : \\diana\target\6890q.i\Q42408Pest-2.b\Q5020808.d
Lab Smp Id: TT46702-002 Client Smp ID: 09SS 126 0002
Inj Date : 02-MAY-2008 15:14
Operator : GailR Inst ID: 6890Q.i
Smp Info : TT46702-002
Misc Info : Method 8081
Comment :
Method : \\diana\target\6890q.i\Q42408Pest-2.b\Q42408Pest-2.m
Meth Date : 05-May-2008 08:38 gailr Quant Type: ESTD
Cal Date : 24-APR-2008 15:34 Cal File: Q4240810.d
Als bottle: 1
Dil Factor: 10000.00000 Sample Compound Amounts Loaded
Integrator: Falcon Compound Sublist: 8081.sub
Target Version: 4.03 Sample Matrix: SOIL
Processing Host: TARGET01

Concentration Formula: Amt * DF * Uf * Vt*GPC/(Vi * Ws * (100 - M)/100)

Name	Value	Description
DF	10000.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)(1000 low, 2
GPC	1.000	GPC Factor
Vi	0.500	Volume injected (uL)
Ws	2.160	Weight of sample extracted (g)
M	24.200	% Moisture

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
58 4,4'-DDT					CAS #: 50-29-3		
13.375	13.376	-0.001	4561810	0.00707	864000		