Sediment Contaminant Concentrations from Disposal at Sea Sites at Point Grey and Sand Heads and inside and outside Southern Resident Killer Whale Critical Habitat, British Columbia in 2019

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SEDIMENT CONTAMINANT CONCENTRATIONS FROM DISPOSAL AT SEA SITES AT POINT GREY AND SAND HEADS AND INSIDE AND OUTSIDE SOUTHERN RESIDENT KILLER WHALE CRITICAL HABITAT, BRITISH COLUMBIA IN 2019

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Acronyms/Abbreviations/Symbols	Meaning
ANOVA	analysis of variance
BC	British Columbia
CCGS	Canadian Coast Guard Ship
CCME	Canadian Council of Ministers of the Environment
CEPA	Canadian Environmental Protection Act
CSSF	Canadian Scientific Submersible Facility
DAS	Disposal at Sea
DDT	Dichlorodiphenyltrichloroethane
DFO	Fisheries and Oceans Canada
DL	detection limit
dw	dry weight
EC	Environment Canada
ECCC	Environment and Climate Change Canada
HBCDD	hexabromocyclododecane
HDPE	High density polyethylene
HRGC/HRMS	high resolution gas chromatography / high resolution mass spectrometry
mg/kg	milligrams per kilograms
NCAG	National Contaminants Adivsory Group
ND	not detected
ng/g	nanograms per gram
NRKW	Northern Resident Killer Whales
PAHs	polycyclic aromatic hydrocarbons
PBDE	polybrominated diphenyl ether
PCB	polychlorinated biphenyl
PCDD	polychlorinated dibenzo-p-dioxin
PCDF	polychlorinated dibenzo-p-furan
PFASs	per- and polyflouroalkyl substances
PG	Point Grey
pg/g	picograms per gram
PPCPs	pharmaceuticals and Personal Care Products
SARA	Species At Risk Act
SH	Sands Heads
SQG	sediment quality guideline
SRKW	Southern Resident Killer Whales
TBBPA	tetrabromobisphenol A
TBT	tributyltin
TEQ	toxic equivalent quotient
TOC	Total Organic Carbon

US EPA	United States Environmental Protection Agency
ww	wet weight
µg/kg	microgram per kilogram

ABSTRACT

Brown, T.M., Holbert, S., Gallilee, C.A., Colbourne, K. 2022. Sediment contaminant concentrations from Disposal at Sea sites at Point Grey and Sand Heads and inside and outside Southern Resident Killer Whale Critical Habitat, British Columbia in 2019. Can. Data Rep. Fish. Aquat. Sci. 1346: ix + 100 p.

The measurement of contaminants of concern in marine sediments in British Columbia (BC) helps to inform the administration of Disposal at Sea (DAS) by Environment and Climate Change Canada (ECCC) in accordance with the *Canadian Environmental Protection Act* (CEPA) and helps ECCC and Fisheries and Oceans Canada (DFO) to protect the habitat of the *endangered* Southern Resident killer whales (SRKW) and their primary prey Chinook salmon under the terms of the *Species at Risk Act* (SARA). Surficial sediment samples (n = 24) were collected by ECCC and DFO from two Disposal at Sea sites (Point Grey and Sand Heads) and at sites located both inside and outside SRKW Critical Habitat. Samples were analyzed for 13 contaminant classes Results reveal lower concentrations of PCBs, PBDEs, PCDDs, PCDFs, DDT, Alkylphenols, and metals inside Critical Habitat compared to outside Critical Habitat. PCBs, PBDEs, PCDDs, PCDFs, and DDT concentrations were higher at the Point Grey disposal site than at the Sand Heads site, whereas alkylphenols and metals (copper, lead, antimony, barium, selenium, silver) were higher at the Sand Heads site compared to the Point Grey site. Average PCB concentrations inside and outside Critical Habitat and at both disposal site locations exceeded the PCB interim sediment quality guideline (0.0037 ng/g dw) deemed to be protective of resident killer whales. Average PBDE, PCDD, PCDF, and arsenic sediment concentrations outside Critical Habitat exceeded the PBDE interim sediment quality guideline (1 ng/g dw) protective of resident killer whales and the PCDD and PCDF (0.85 ng TEQ fish/kg) and arsenic (7.24 mg/kg) CCME sediment quality guidelines to protect aquatic biota. A pilot comparison of two analytical laboratories revealed relatively good alignment when comparing the concentrations of a list of shared or common congeners, but notable differences when ‘totals’ were calculated. These data provide a baseline for future assessments relevant to the recovery of Resident killer whales.

RÉSUMÉ

Brown, T.M., Holbert, S., Gallilee, C.A., Colbourne, K. 2022. Sediment contaminant concentrations from Disposal at Sea sites at Point Grey and Sand Heads and inside and outside Southern Resident Killer Whale Critical Habitat, British Columbia in 2019. Can. Data Rep. Fish. Aquat. Sci. 1346: ix + 100 p.

La mesure des contaminants préoccupants dans les sédiments marins en Colombie-Britannique contribue à éclairer l'administration de l'immersion en mer par Environnement et Changement climatique Canada (ECCC), conformément à la *Loi canadienne sur la protection de l'environnement*. De plus, ce travail aide ECCC et Pêches et Océans Canada (MPO) à protéger l'habitat de l'épaulard résident du sud, *une espèce en voie de disparition*, et de sa principale proie, le saumon chinook, en vertu de la *Loi sur les espèces en péril*. ECCC et le MPO ont prélevé des échantillons de sédiments superficiels (n = 24) sur deux sites d'immersion en mer (Point Grey et Sand Heads) et sur des sites situés à l'intérieur et à l'extérieur de l'habitat essentiel de l'épaulard résident du sud. L'analyse des échantillons a porté sur 13 classes de contaminants. Les résultats révèlent des concentrations relativement plus faibles de BPC, de PBDE, de PCDD, de PCDF, de DDT, d'alkylphénols et de métaux à l'intérieur de l'habitat essentiel comparativement à l'extérieur de celui-ci. Les concentrations de BPC, de PBDE, de PCDD, de PCDF et de DDT étaient plus élevées au site d'élimination de Point Grey qu'au site de Sand Heads, tandis que les alkylphénols et les métaux (cuivre, plomb, antimoine, baryum, sélénium, argent) étaient plus élevés au site de Sand Heads qu'au site de Point Grey. Les concentrations moyennes de BPC à l'intérieur et à l'extérieur de l'habitat essentiel et aux deux sites d'élimination dépassaient la recommandation provisoire pour la qualité des sédiments pour les BPC (0,0037 ng/g p.s.), qui, estime-t-on, assure la protection des épaulards résidents. Les concentrations moyennes de PBDE, de PCDD, de PCDF et d'arsenic dans les sédiments à l'extérieur de l'habitat essentiel dépassaient la recommandation provisoire pour la qualité des sédiments pour les PBDE (1 ng/g p.s.) visant à protéger les épaulards résidents ainsi que la recommandation du CCME pour la qualité des sédiments pour les PCDD et les PCDF (0,85 ng EQT/kg pour les poissons) et l'arsenic (7,24 mg/kg) visant à protéger le biote aquatique. Une comparaison pilote de deux laboratoires d'analyse a révélé un alignement relativement bon lors de la comparaison des concentrations d'une liste de congénères partagés ou communs, mais des différences notables lorsque les « totaux » étaient calculés. Ces données fournissent une base de référence pour les évaluations futures des objectifs pour le rétablissement des épaulards résidents inscrits sur la liste de la *Loi sur les espèces en péril*.

1.0 Introduction

Environment and Climate Change Canada (ECCC) regulates Disposal at Sea (DAS) in Canadian waters, ensuring consistency with the Convention on the Prevention of Marine Pollution by Dumping of Wastes and Other Matter, 1972 (London Convention) and the 1996 Protocol to the Convention (London Protocol). Disposal at Sea is managed under a permit system under the *Disposal at Sea Regulations* under the *Canadian Environmental Protection Act* (CEPA 1999; Porebski and Osborne 1999). As part of its administration of Disposal at Sea activities, ECCC monitors sediment concentrations for contaminants of concern at representative disposal sites.

Fisheries and Oceans Canada (DFO) operates a Whale Contaminants Research Program which has implemented research and partnership initiatives to inform mitigation and recovery actions for Southern Resident killer whales (SRKWs), including research to investigate contaminants of greatest concern to SRKW and their prey. DFO is focusing research efforts on both Southern and Northern Resident killer whales (NRKW) and their prey in "critical" and surrounding habitats in partnership with First Nations, NGOs, universities, and other agencies. Research carried out under this program are providing guidance on the recovery of at-risk species identified under the terms of the *Species at Risk Act* (SARA).

DFO has partnered with ECCC's DAS program to study contaminant distribution in local resident killer whale habitats. DFO's National Contaminants Advisory Group (NCAG) has funded a contaminant sediment monitoring program (i.e., *PollutionTracker* Program) through partnerships with Ocean Wise Conservation Association. Together, this multi-sectoral effort will allow DFO to conduct a more rigorous risk-based evaluation of different contaminants in Southern Resident killer whale habitat, identify hot spots, and will enable a prioritization of contaminants of concern to the whales and their prey. Further, this sediment data will be used in food web bioaccumulation models for killer whales and their prey (salmon) and will support the development of a protocol for the derivation of environmental quality guidelines for the protection of marine mammals from bioaccumulative substances. Collectively results from this work will contribute to the Government of Canada's initiative to implement measures for the protection and recovery of endangered SRKW.

Polychlorinated biphenyls (PCBs) were banned in Canada in 1977, but their legacy persists in environmental compartments and continued scrutiny is both required under CEPA Disposal at Sea regulations and warranted from an environmental health perspective. A prolonged period of exponential increases in polybrominated diphenyl ethers (PBDEs) in biota in the NE Pacific region (Rayne et al., 2003; Ross et al., 2013), and the increasing dominance of this contaminant in municipal wastewater (Dinn et al., 2012), marine water (Frouin et al., 2013), and marine sediments (Grant et al., 2011) in British Columbia has required that this contaminant class be assessed and monitored for any dredging and/or disposal of dredged material in SRKW critical habitat, as per draft joint DFO-ECCC SOP. Polycyclic aromatic hydrocarbons (PAHs), and metals are also assessed and monitored under CEPA Disposal at Sea regulations. Other pollutants, including Alkylphenols, Per- and Polyfluoroalkyl Substances (PFASs), tributyltin (TBT), Pharmaceuticals and Personal Care Products (PPCPs), Chlorinated Alkanes, tetrabromobisphenol A (TBBPA), PBDEs, and legacy and current use pesticides have been

highlighted in the killer whale recovery strategy as a chemical of concern and suggests that assessment of sediment samples for these contaminants is warranted.

Sediment dredged from the lower Fraser River and other locations is periodically disposed of at marine sites in coastal British Columbia. Currently, the Disposal at Sea Regulations uses two Action Levels to evaluate material proposed for Disposal at Sea. The 'Lower Level' of the National Action List identifies screening criteria for specified substances to determine whether the material is acceptable for disposal (CEPA 2001; Environment Canada 2006). There are Lower Action Levels identified for the following substances: total PCBs at 100 µg·kg-1 dry weight, mercury (Hg; 750 µg·kg-1, dry weight), cadmium (Cd; 600 µg·kg-1 dry weight), and total PAHs (2,500 µg·kg-1 dry weight) (Environment Canada 2006). Any sediments proposed for Disposal at Sea with concentrations above the Lower Levels of the National Action List must additionally be assessed with: (1) an acute lethality test, (2) two sub-lethal tests or (3) one sub-lethal test and one bioaccumulation test. If the acute lethality test or the other two tests fail to meet the criteria set out for those tests, then the sediments shall be considered to be above the Upper Level of the National Action List, and Disposal at Sea is prohibited (CEPA 2001; Environment Canada 2006).

Other criteria used for screening sediment for Disposal at Sea includes the Interim Sediment Quality Guidelines (ISQG) for the protection of aquatic biota developed by the Canadian Council of Ministers of the Environment (CCME) for the following five substances: arsenic at 7.24 mg·kg-1 dry weight, chromium at 52.3 mg·kg-1 dry weight, copper at 18.7 mg·kg-1 dry weight, lead at 30.2 mg·kg-1 dry weight, zinc at 124 mg·kg-1 dry weight, and polychlorinated dibenzo-*p*-dioxins (PCDDs) and polychlorinated dibenzofurans (PCDFs) at 0.85 ng TEQ fish/kg.

In addition, food web bioaccumulation modelling work led to the development of a PCB and PBDE concentrations in sediments of 0.0037 µg·kg-1 dry weight (Alava et al. 2012; Lachmuth et al. 2010) and 1.0 µg·kg-1 dry weight (Alava et al. 2016) that would reduce health risks to resident killer whales. These criteria are currently not used by the DAS Program to screen sediment. In accordance with the Standard Operating procedures developed with DFO, material is assessed and screened against background levels found at the disposal site.

This report provides a detailed summary of PCBs, PBDEs, PCDD/Fs, alkylphenols, Hexabromocyclododecane (HBCDD), legacy and current-use pesticides, Per- and polyfluoroalkyl substances (PFASs), pharmaceuticals and personal care products, Tetrabromobisphenol A (TBBPA), PAHs, TBT, and metals. PCDD and PCDF data from surficial sediment samples collected by Environment and Climate Change Canada and Fisheries and Oceans Canada in 2019 at two Disposal at Sea sites in the Strait of Georgia: Point Grey and Sand Heads, as well as inside and outside SRKW critical habitat. Contaminant analyses were carried out by SGS AXYS Analytical Ltd. in Sidney, BC. This data report represents the third such collaboration between ECCC and DFO on the monitoring of Disposal at Sea sites, with the first having evaluated PCBs, PBDEs, PCDDs and PCDFs from Point Grey and Sand Heads in the Strait of Georgia in 2010 (Ross et al. 2011) and the second having evaluated the PCBs, PBDEs, PCDDs and PCDFs at Brown Passage and Douglas Channel in 2011 (Ross et al. 2012) and is the first collaboration under the Government of Canada's Whale Initiative to inform priority contaminant actions for Southern Resident killer whales (SRKWs).

Methods

2.1 Sample collection

A total of 34 sediment samples were collected by ECCC and DFO staff from two marine disposal sites (Point Grey and Sand Heads), as well as from additional stations inside and outside SRKW critical habitat (Figures 1 and 2). Samples were collected using a Smith-McIntyre grab sampler aboard the Canadian Coast Guard Ship (CCGS) Vector June 12 to 15, 2019 and using a Petit-Ponar grab sampler aboard a Hurricane rib October 23, 2019 and November 18, 2019. Sample penetration was typically 10-15 cm for Smith-McIntyre and Petit-Ponar grab samples.

2.2 Sample analysis

2.2.1 Point Grey (SRKW-19-12) and Sand Heads (SRKW-19-005) disposal sites and sites located inside and outside Southern Resident Killer Whale (SRKW) critical habitat

A total of 24 samples from the Point Grey and Sand Heads Disposal at Sea sites and inside and outside SRKW critical habitat were submitted to SGS AXYS Analytical Ltd. in Sidney, British Columbia, ALS Canada Ltd. in Burnaby, British Columbia, and Pacific Rim Laboratories in Surrey, British Columbia and analyzed for PCBs, PBDEs, PCDDs, PCDFs, alkylphenols, HBCDD, legacy and current-use pesticides, PFASs, pharmaceuticals and personal care products, TBBPA, PAHs, TBT, and metals (Table 1). Of these 24 samples collected, only one was within the Point Grey disposal site and one was within the Point Grey disposal site.

2.2.2 SGS AXYS Analytical Ltd. vs Maxxam Analytics Inc.

A total of 10 samples from Point Grey and Sand Heads Disposal at Sea sites were submitted to SGS AXYS Analytical Ltd. and Maxxam Analytics Inc. and analyzed for PCBs, PBDEs, PCDDs, PCDFs, and PAHs.

2.3 Data analysis

2.3.1 Point Grey (SRKW-19-12) and Sand Heads (SRKW-19-005) disposal sites and sites located inside and outside Southern Resident Killer Whale (SRKW) Critical Habitat

Values in summary tables (Tables 4, 5 and 22) are presented on a dry weight basis and have been blank corrected. When congeners or analytes were undetected, detection limit substitutions were substituted with 0. Concentrations of sumPCBs denotes 159 congeners (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12/13, 14, 15, 16, 17, 18/30, 19, 20/28, 21/33, 22, 23, 24, 25, 26/29, 27, 31, 32, 34, 35, 36, 37, 38, 39, 40/41/71, 42, 43, 44/47/65, 45/51, 46, 48, 49/69, 50/53, 52, 54, 55, 56, 57, 58, 59/62/75, 60, 61/70/74/76, 63, 64, 66, 67, 68, 72, 73, 77, 78, 79, 80, 81, 82, 83/99, 84, 85/116/117, 86/87/97/109/119/125, 88/91, 89, 90/101/113, 92, 93/95/98/100/102, 94, 96, 103, 104, 105, 106, 107, 108/124, 110/115, 111, 112, 114, 118, 120, 121, 122, 123, 126, 127, 128/166, 129/138/160/163, 130, 131, 132, 133, 134/143, 135/151/154, 136, 137, 139/140, 141, 142, 144, 145, 146, 147/149, 148, 150, 152, 153/168, 155, 156/157, 158, 159, 161, 162, 164, 165, 167, 169, 170, 171/173, 172, 174, 175, 176, 177, 178, 179, 180/193, 181, 182, 183/185, 184, 186, 187, 188, 189, 190, 191, 192, 194, 195, 196, 197/200, 198/199, 201, 202, 203, 204,

205, 206, 207, 208, 209), sumPBDEs denotes 40 congeners (7, 8/11, 10, 12/13, 15, 17/25, 28/33, 30, 32, 35, 37, 47, 49, 51, 66, 71, 75, 77, 79, 85, 99, 100, 105, 116, 119/120, 126, 128, 138/166, 140, 153, 154, 155, 181, 183, 190, 203, 206, 207, 208, 209), sumPFAS denotes 33 congeners (PFBA, PFeA, PFHxA, PFHpA, PFOA, PFNA, PFDA, PFUnA, PFDoA, PFTrDA, PFTeDA, PFBS, PFPeS, PFHxS, PFOS, PFNS, PFDS, PFDoS, 4:2 FTS, 8:2 FTS, PFOSA, N-MeFOSA, N-EtFOSA, MeFOSAA EtFOSAA, N-MeFOSE, N-EtFOSE, HFPO-DA, ADONA, 9Cl-PF3ONS, 11Cl-PF3OUdS), SumPAHs denotes 75 congeners (naphthalene, acenaphthylene, acenaphthene, 2-methylfluorene, C2 phenanthrenes/anthracenes, flourene, phenanthrene, C1 phenanthrenese/anthracenes, fluoranthene, pyrene, ben[a]anthracene, chrysene, benzo[b]fluoranthene, benzo[j,k]fluoranthenes, benzo[e]pyrene, benzo[a]pyrene, perylene, dibenzo[a,h]anthracene, benzo[ghi]perylene, 2-methylnaphthalene, 1-methylnaphthalene, C1-naphthalenes, biphenyl, C1-biphenyls, C2-biphenyls, C2-napthalenes, 1,2-dimethylnaphthalene, 2,6-dimethylnaphthalene, C3-naphthalenes, 2,3,6-trimethylnaphthalene, 2,3,5-trimethylnaphthalene, C4-naphthalenes, C1-acenaphthenes, C1-fluorenes, 1,7-dimethylfluorene, C2-fluorene, C3-fluorene, dibenzothiophene, C1-dibenzothiphenes, 2/3-methyldibenzothiophenes, C2-dibenzothiophenes, 2,4-dimethyldibenzothiophene, 4,6-dimethyldibenzothiophene, C3-dibenzothiophenes, C4-dibenzothiophenes, 3-methylphenanthrene, 2-methylphenanthrene, 2-methylanthracene, 9/4-methlyphenanthrene, 1-methylphenanthrene, 3,6-dimethylphenanthrene, 2,6-dimethylphenanthrene, 1,7-dimethylphenanthrene, 1,8-dimethylphenanthrene, C3-phenanthrenes/anthracenes, 1,2,6-trimethylphenanthrene, retene, C4-phenanthrenes/anthracenes, C1-fluoranthenes/pyrenes, 3-methylfluoranthene/benzo[a]fluorene, C2-fluoranthenes/pyrenes, C3-fluoranthenes/pyrenes, C4-fluoranthenes/pyrenes, C1-benzo[a]anthracenes/chrysenes, 5/6-methylchrysene, 1-methylchrysene, C2-benzo[a]anthracenes/chrysenes, 5,9-dimethylchrysene, C3-benzo[a]anthracenes/chrysenes, C4-benzo[a]anthracenes/chrysenes, C1-benzofluoranthenes/benzopyrenes, 7-methylbenzo[a]pyrene, C2-benzofluoranthenes/benzopyrenes, 1,4,6,7-Tetramethylnaphthalene) legacy pesticides (sumHCH denotes (alpha-, beta-, gamma-, delta-hexachlorocyclohexane); sumChlordanes denotes (alpha- and gamma-chlordane; cis-nonachlor; trans-nonachlor; oxychlordane; heptachlor epoxide); sumEndosulphan denotes (alpha-, gamma-endosulphan; endosulphan sulphate); sumDDT denotes dichlorodiphenyldichloroethane [2, 4'-DDD; 4, 4'-DDD]; dichlorodiphenyldichloroethylene [2, 4'-DDE; 4, 4'-DDE]; dichlorodiphenyltrichlorethane [2, 4'-DDT; 4, 4'-DDT]; hexachlorobenzene [HCB]; dieldrin); current-use pesticides (alachlor; sumEndrin denotes endrin ketone and endrin); sumHBCDD denotes alpha-, beta-, gamma-hexabromocyclododecane; sumPCDDs denotes 7 congeners (2,3,7,8-TCDD, 1,2,3,7,8-PECDD, 1,2,3,4,7,8-HXCDD, 1,2,3,6,7,8-HXCDD, 1,2,3,7,8,9-HXCDD, 1,2,3,4,6,7,8-HPCDD, OCDD) and sumPCDFs denotes 10 congeners (2,3,7,8-TCDF, 1,2,3,7,8-PECDF, 2,3,4,7,8-PECDF, 1,2,3,4,7,8-HXCDF, 1,2,3,6,7,8-HXCDF, 1,2,3,7,8,9-HXCDF, 2,3,4,6,7,8-HXCDF, 1,2,3,4,6,7,8-HPCDF, 1,2,3,4,7,8,9-HPCDF, OCDF); sumAlkylphenols (4-Nonylphenols, 4-Nonylphenol monoethoxylates, 4-Nonylphenol diethoxylates, 4-n-Octylphenol).
Data presented in Tables 5-7 and 9-21 are presented on a dry weight basis with procedural blank subtraction only, with no detection limit substitutions.

Analysis of Variance (ANOVA) were carried out for sediment contaminant concentration comparisons for sites located inside and outside critical habitat. Differences were considered significant when $p < 0.05$.

2.3.2 SGS AXYS Analytical Ltd. and ALS Canada Ltd. vs Maxxam Analytics Inc.

Values in summary tables (Table 22) are presented on a dry weight basis and have been blank corrected. When congeners or analytes were undetected, detection limit substitutions were substituted with 0. Concentrations of sumPCBs analyzed by Maxxam Analytics Inc. denotes 165 congeners (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12/13, 14, 15, 16, 17, 18/30, 19, 20/28, 21/33, 22, 23, 24, 25, 26/29, 27, 31, 32, 34, 35, 36, 37, 38, 39, 40/41/71, 42, 43, 44/47/65, 45/51, 46, 48, 49/69, 50/53, 52, 54, 55, 56, 57, 58, 59/62/75, 60, ,61/70/74/76, 63, 64, 66, 67, 68, 72, 73, 77, 78, 79, 80, 81, 82, 83/99, 84, 85/116/117, 86/87/97/109/119/125, 88/91, 89, 90/101/113, 92, 93/98/100/102, 94, 95, 96, 103, 104, 105, 106, 107, 108/124, 110/115, 111, 112, 114, 118, 120, 121, 122, 123, 126, 127, 128/166, 129/138/163, 130, 131, 132, 133, 134/143, 135/151, 136, 137, 139/140, 141, 142, 144, 145, 146, 147/149, 148, 150, 152, 153/168, 154, 155, 156/157, 158, 159, 160, 161, 162, 164, 165, 167, 169, 170, 171/173, 172, 174, 175, 176, 177, 178, 179, 180/193, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 194, 195, 196, 197, 198/199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209), sumPBDEs denotes 36 congeners (10, 7, 15, 30, 17, 28, 49, 71, 47, 66, 77, 100, 119, 99, 85, 126, 154, 153, 139, 140, 138, 156, 184, 183, 191, 180, 171, 201, 197, 203, 196, 205, 208, 207, 206, 209), sumPCDDs denotes 7 congeners (2,3,7,8-Tetra CDD, 1,2,3,7,8-Penta CDD, 1,2,3,4,7,8-Hexa CDD, 1,2,3,6,7,8-Hexa CDD, 1,2,3,7,8,9-Hexa CDD, 1,2,3,4,6,7,8-Hepta CDD, Octa CDD), sumPCDFs denotes 10 congeners (2,3,7,8-Tetra CDF, 1,2,3,7,8-Penta CDF, 2,3,4,7,8-Penta CDF, 1,2,3,4,7,8-Hexa CDF, 1,2,3,6,7,8-Hexa CDF, 2,3,4,6,7,8-Hexa CDF, 1,2,3,7,8,9-Hexa CDF, 1,2,3,4,6,7,8-Hepta CDF, 1,2,3,4,7,8,9-Hepta CDF, Octa CDF), sumPAHs denotes 16 congeners (Naphthalene, Acenaphthylene, Acenaphthene, Fluorene, Phenanthrene, Anthracene, Fluoranthene, Pyrene, Benzo(a)anthracene, Chrysene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Dibenz(a,h)anthracene, Benzo(g,h,i)perylene). For the comparison assessment, concentrations of PCBs, PBDEs, PAHs, PCDD/Fs, were only included in the sum if each congener was detected at both sites. For example, PCB-153 had to been detected at SH19-R15 in the SGS AXYS Analytical Ltd. and Maxxam Analytics Inc. results.

3.0 Results

3.3.1 Point Grey (SRKW-19-12) and Sand Heads (SRKW-19-005) disposal sites and sites located inside and outside Southern Resident Killer Whale (SRKW) critical habitat

PCBs were detected in all sediment samples inside and outside SRKW critical habitat and at the Point Grey and Sand Heads disposal sites (Table 9). Of the 159 congeners, 72 were detected in all 24 of the samples. The top six PCB congeners inside and outside critical habitat ranked as PCB-129 + 138 + 160 + 163 > PCB-61 + 70 + 74 + 76 > PCB-153 + 168 > PCB-118 > PCB-110 + 115 > PCB-20 + 28 (Table 7), respectively. Sediment PCB concentrations did not differ outside and inside SRKW critical habitat (Table 5). The PCB sediment concentration at the Point Grey disposal site (0.5506 ng/g dw) was 2.5-fold greater than the concentration at the Sand Heads disposal site (0.2184 ng/g dw). Average concentrations inside and outside critical habitat exceeded the interim sediment quality guideline (0.0037 ng/g dw) for PCBs protective of killer whales by 320- and 634-fold, respectively. The Point Grey site and Sand Heads site exceeded the guideline by 148- and 59-fold, respectively.

Of the 40 PBDE congeners, 13 were detected in all of the 24 samples. The top six PBDE congeners inside and outside critical habitat ranked as PBDE-209 > PBDE-47 > PBDE-99 > PBDE-207 > PBDE-208 > PCB-206 (Table 7), respectively. PBDE concentrations were 3.4-fold higher ($p < 0.001$) outside SRKW critical habitat (1.284 ± 0.8930 ng/g dw) than inside critical habitat (0.3951 ± 0.5740 ng/g dw) (Figure 3; Table 5). The PBDE sediment concentration at the Point Grey disposal site (0.2902 ng/g dw) was 1.5-fold greater than the concentration at the Sand Heads disposal site (0.1986 ng/g dw). Average concentrations outside critical habitat exceeded the interim sediment quality guideline (1 ng/g dw) for PBDEs protective of killer whales by 1.3-fold

PCDF concentrations were 5.0-fold higher outside SRKW critical habitat (0.0256 ± 0.0236 ng/g dw) than inside critical habitat (0.0052 ± 0.0023 ng/g dw) (Figure 3; Table 5). The PCDF sediment concentration at the Point Grey disposal site (0.0030 ng/g dw) was 1.5-fold greater than the concentration at the Sand Heads disposal site (0.0020 ng/g dw). PCDD concentrations were 3.7-fold higher outside SRKW critical habitat (0.2234 ± 0.1480 ng/g dw) than inside critical habitat (0.0600 ± 0.0377 ng/g dw) (Figure 3; Table 5). The PCDD sediment concentration at the Point Grey disposal site (0.0431 ng/g dw) was 2.5-fold greater than the concentration at the Sand Heads disposal site (0.0684 ng/g dw). Average concentrations inside critical habitat and at the Disposal at Sea sites were below the PCDD and PCDF CCME sediment quality guideline (0.85 ng TEQ fish/kg), whereas average concentrations outside critical habitat we 2.9-fold above the guideline.

SumDDT concentrations were 2.2-fold higher outside SRKW critical habitat (0.1689 ± 0.1110 ng/g dw) than inside critical habitat (0.0767 ± 0.0567 ng/g dw) (Figure 3; Table 5). The DDT sediment concentration at the Point Grey disposal site (0.3940 ng/g dw) was 17-fold greater than the concentration at the Sand Heads disposal site (0.0230 ng/g dw). Average concentrations inside and outside critical habitat and at the two disposal sites were below the DDT CCME sediment quality guideline (1.19 ng/g dw) (Table 5).

SumAlkyphenol concentrations were 1.8-fold higher outside SRKW critical habitat (9.897 ± 9.944 ng/g dw) than inside critical habitat (5.622 ± 7.984 ng/g dw) (Figure 3; Table 5). The Alkylphenol sediment concentration at the Point Grey disposal site (0.4770 ng/g dw) was 3-fold greater than the concentration at the Sand Heads disposal site (1.420 ng/g dw).

Sediment PAH concentrations did not differ outside and inside SRKW critical habitat (Table 5). The PAH sediment concentration at the Point Grey disposal site (626.24 ng/g dw) was 1.3 fold greater than the concentration at the Sand Heads disposal site (498.63 ng/g dw).

SumPFASs and TBBPA was only detected in sediments outside SRKW critical habitat (Table 5).

Of the 35 organochlorine legacy pesticide analytes, none were detected in any of the 24 samples. Alpha-HBCDD was the only HBCDD analyte detected was detected in sites located inside and outside critical habitat. Alpha-HBCDD was not detected at the Point Grey and Sand Heads disposal site. SumChlordanes, SumEndosulphan, and HCB concentrations did not differ outside and inside critical habitat.

Of the 42 current-use pesticide analytes, only one analyte (Alachlor) was detected in 16.6% of the 24 samples.

TBT was not detected in any of the 24 sediment samples.

Copper (Cu) concentrations were 2-fold higher ($p = 0.02$) outside SRKW critical habitat (36.37 ± 19.53 mg/kg dw) than inside critical habitat (18.70 ± 10.688 mg/kg dw) (Figure 4; Table 6). The Cu sediment concentration at the Sand Heads disposal site (28.70 mg/kg dw) was 1.6-fold greater than the concentration at the Point Grey disposal site (17.60 mg/kg dw). Average concentrations inside and outside critical habitat were equal to or exceeded the CCME sediment quality guideline (18.7 mg/kg dw) for Cu by 2-fold, respectively. The sediment Cu concentration at the Point Grey disposal site was below the SQG, whereas the concentration at Sand Heads exceeded the SQG by 1.5-fold.

Lead (Pb) concentrations were 1.8-fold higher ($p = 0.03$) outside SRKW critical habitat (11.81 ± 5.152 mg/kg dw) than inside critical habitat (6.565 ± 2.162 mg/kg dw) (Figure 4; Table 6). The Pb sediment concentration at the Sand Heads disposal site (6.330 mg/kg dw) was 1.6-fold greater than the concentration at the Point Grey disposal site (3.850 mg/kg dw). Average concentrations inside and outside critical habitat were below the CCME sediment quality guideline (30.2 mg/kg dw) for Pb. The Pb concentration at the Point Grey and Sand Heads disposal sites were below the SQG.

Antimony (Sb) concentrations were 2-fold higher ($p = 0.04$) outside SRKW critical habitat (0.5231 ± 0.3376 mg/kg dw) than inside critical habitat (0.2533 ± 0.1350 mg/kg dw) (Figure 4; Table 6). The Sb sediment concentration at the Sand Heads disposal site (0.4700 mg/kg dw) was 2.4-fold greater than the concentration at the Point Grey disposal site (0.2000 mg/kg dw).

Barium (Ba) concentrations were 1.6-fold higher ($p < 0.01$) outside SRKW critical habitat (57.84 ± 15.52 mg/kg dw) than inside critical habitat (36.47 ± 14.28 mg/kg dw) (Figure 4; Table 6). The Ba sediment concentration at the Sand Heads disposal site (65.80 mg/kg dw) was 1.4-fold greater than the concentration at the Point Grey disposal site (48.30 mg/kg dw).

Selenium (Se) concentrations were 2.6-fold higher ($p = 0.04$) outside SRKW critical habitat (0.6413 ± 0.4069 mg/kg dw) than inside critical habitat (0.2500 ± 0.2051 mg/kg dw) (Figure 4; Table 6). Selenium was detected at the Sand Heads disposal site (0.2800 mg/kg dw) and not at the Point Grey disposal site.

Silver (Ag) concentrations were 4-fold higher ($p = 0.03$) outside SRKW critical habitat (0.1150 ± 0.0802 mg/kg dw) than inside critical habitat (0.0283 ± 0.0694 mg/kg dw) (Figure 4; Table 6). Selenium was detected at the Sand Heads disposal site (0.1000 mg/kg dw) and not at the Point Grey disposal site.

Average concentrations of sediments inside and outside SRKW critical habitat and at the two Disposal at Sea sites were below the CCME sediment quality guideline for chromium (52.3 mg/kg dw) and zinc (124 mg/kw dw) (Table 6). Average concentrations of sediments inside SRKW critical habitat and at the two Disposal at Sea sites were below the CCME sediment

quality guideline for arsenic (7.24 mg/kg dw), whereas average sediment concentrations outside critical habiat were 1.2-fold greater than the guideline (Table 6).

3.3.2 SGS AXYS Analytical Ltd. and ALS Canada Ltd. vs Maxxam Analytics Inc.

Ten sediments samples were split for comparative analysis at SGS AXYS Analytical Ltd. and Maxxam Analytics Inc. 159 PCB congeners were measured at SGS AXYS Analytical Ltd. (Table 1), and 165 PCB congeners were measured at Maxxam Analytics Inc. Average total PCB concentrations at SGS AXYS Analytical Ltd. (0.8653 $\pm$ 0.1294 ng/g dw) were 2.06-fold greater than average total Maxxam Analytics Inc. concentrations (0.4209 $\pm$ 0.0668 ng/g dw; Table 22). 7 PCB congeners were detected at all 10 sites for both labs. Total PCBs revealed a strong relationship (r^2= 0.6994; p-value= 0.003) between the two labs (Figure 5). Regarding the common congeners, average total PCBs at SGS AXYS Analytical Ltd. (0.2446 $\pm$ 0.0387 ng/g dw) were 1.54-fold greater than average total Maxxam Analytics Inc. concentrations (0.1586 $\pm$ 0.0254 ng/g dw).

40 PBDE congeners were measured by SGS AXYS Analytical Ltd., and 36 PBDE congeners were measured by Maxxam Analytics Inc. Average total PBDE concentrations at Maxxam Analytics Inc. (1.1241 $\pm$ 0.2532 ng/g dw) were 1.18 times greater than AXYS (0.9524 $\pm$ 0.2581 ng/g dw; Table 22). Five PBDE congeners were detected at all 10 sites for both labs. Total PBDEs revealed a strong relationship (r^2= 0.6599; p-value= 0.004) between the two labs (Figure 5). Regarding the common congeners, average total PBDEs at Maxxam Analytics Inc. (0.9333 $\pm$ 0.2097 ng/g dw) were 1.16-fold greater than SGS AXYS Analytical Ltd. (0.8040 $\pm$ 0.2214 ng/g dw).

SGS AXYS Analytical Ltd. measured 76 PAH congeners, while Maxxam Analytics Inc. measured 16 PAH congeners. Average total PAHs were 6.72-fold greater at SGS AXYS Analytical Ltd. (719.33 $\pm$ 77.57 ng/g dw) than average total Maxxam Analytics Inc. concentrations (107.0 $\pm$ 12.26 ng/g dw; Table 22). 11 PAH congeners were detected at all 10 sites for both labs. Total PAHs revealed a strong relationship (r^2= 0.6209; p-value= 0.007) between the two labs (Figure 5). Regarding the common congeners, average total PAHs at Maxxam Analytics Inc. (95.93 $\pm$ 10.72 ng/g dw) were 1.05-fold greater than SGS AXYS Analytical Ltd. (91.06 $\pm$ 10.76 ng/g dw).

7 PCDD congeners were measured by SGS AXYS Analytical Ltd. and Maxxam Analytics Inc. labs, and 4 congeners were detected at all 10 sites for both labs. Average total PCDD concentrations at Maxxam Analytics Inc. (0.1198 $\pm$ 0.0160 ng/g dw) were 1.11-fold greater than concentrations measured at SGS AXYS Analytical Ltd. (0.1076 $\pm$ 0.0159 ng/g dw; Table 22). Total PCDDs, measured at the two labs were not correlated with one another. (r^2= 0.2915; p-value= 0.107) (Figure 5). Regarding the common congeners, average total PCDDs at Maxxam Analytics Inc. (0.1191 $\pm$ 0.0159 ng/g dw) were 1.11-fold greater than at SGS AXYS Analytical Ltd. (0.1070 $\pm$ 0.0159 ng/g dw).

SGS AXYS Analytical Ltd. and Maxxam Analytics Inc. measured 10 PCDF congeners but there was no overlap in detection among all 10 sites. Average total PCDF concentrations measured at

SGS AXYS Analytical Ltd. (0.0254 ± 0.0186 ng/g dw) were 2.49-fold higher than Maxxam Analytics Inc. concentrations (0.0102 ± 0.0021 ng/g dw; Table 22).

4.0 Acknowledgements

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Figure 1. Locations of sediment sampling at Point Grey (SRKW-19-12) and Sand Heads (SRKW-19-005) disposal sites and sites located inside and outside Southern Resident Killer Whale (SRKW) critical habitat in the Strait of Georgia, British Columbia. Five sites were sampled in less than 20 m depth and data was made available via the *PollutionTracker* Program website: https/pollutiontracker.org.

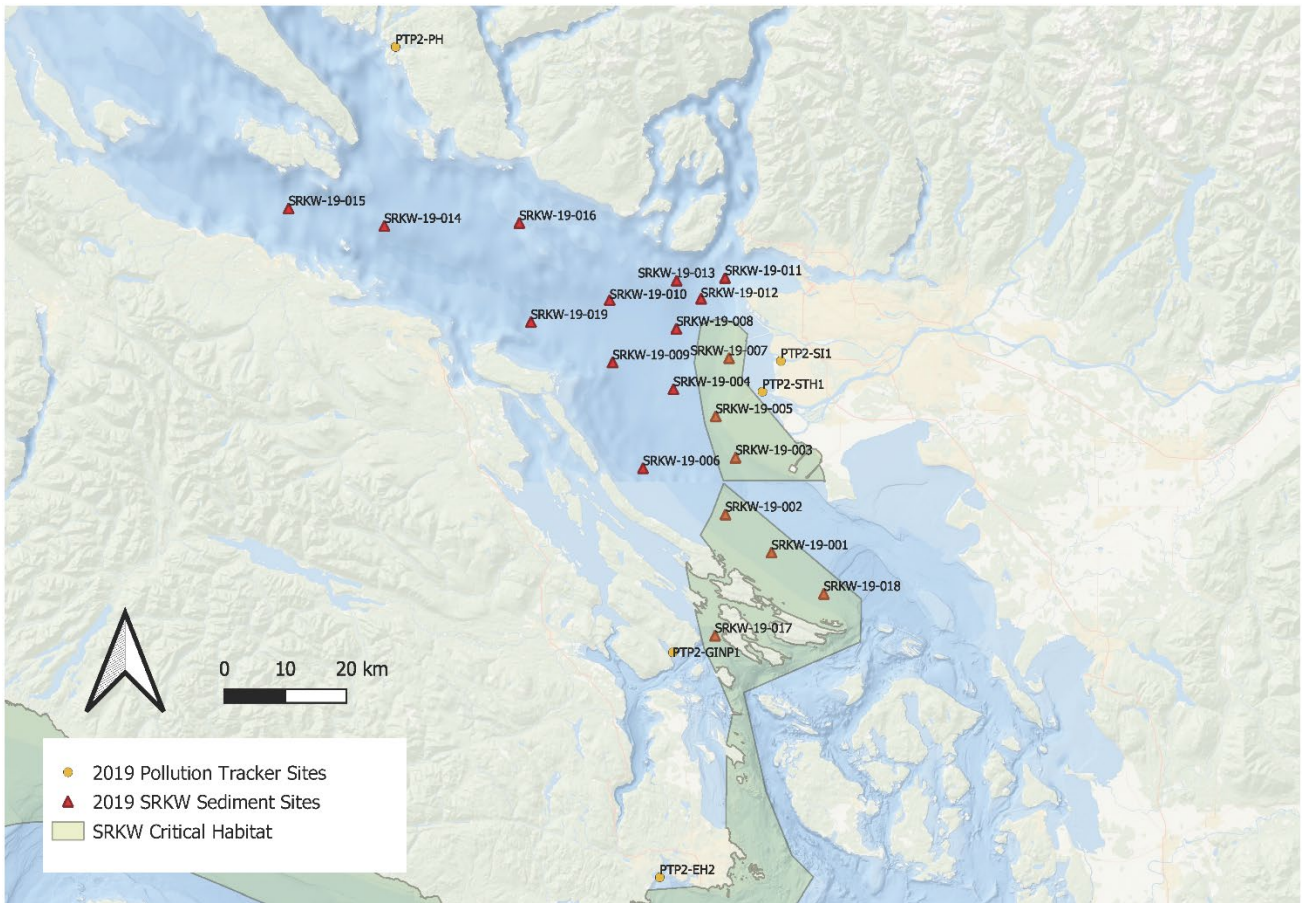

Figure 2. Surficial sediment samples at Point Grey and Sand Heads disposal sites for contaminant analysis of PCBs, PBDEs, D/Fs, PAHs, and metals at SGS AXYS Analytical Ltd. and Maxxam Analytics Inc.

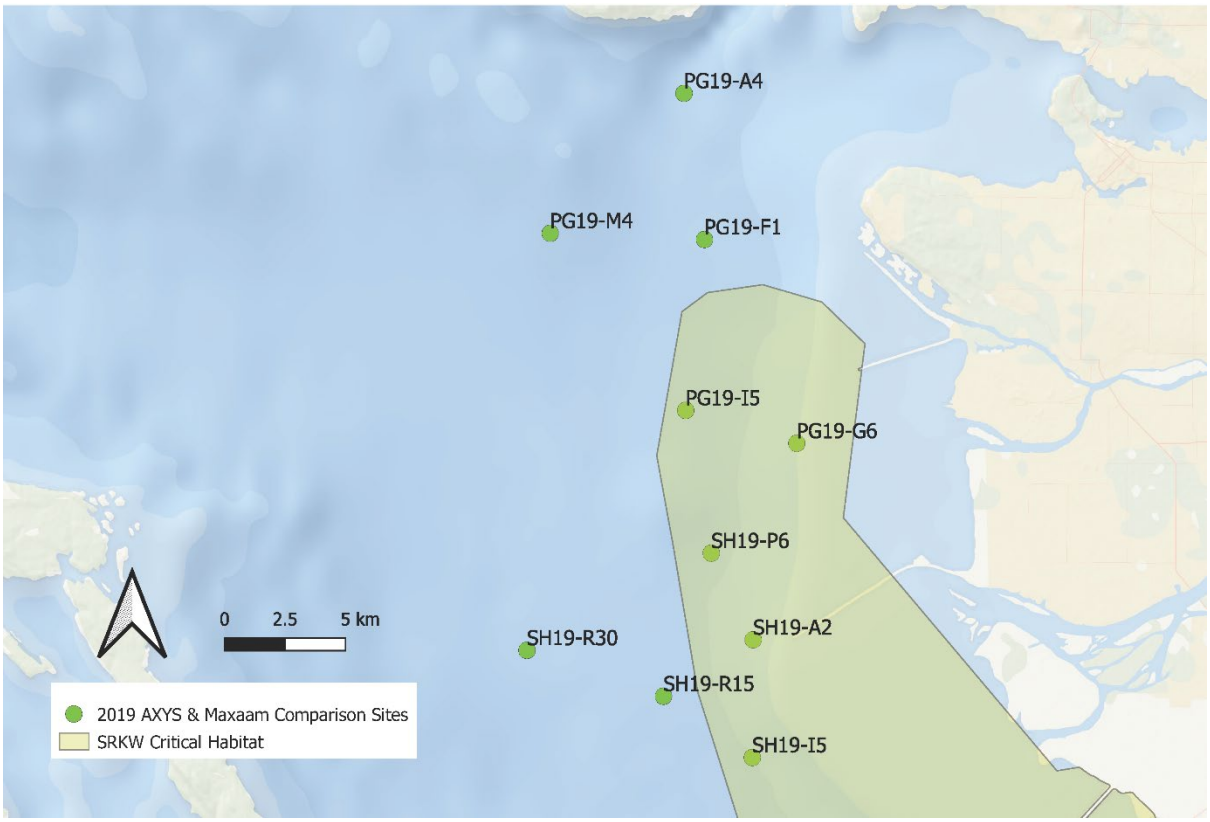

Figure 3. Priority contaminant (PCBs, PBDEs, PCDDs, PCDFs, , DDTs, Alkylphenols) concentrations inside and outside Southern Resident Killer Whale (SRKW) critical habitat and in two Disposal at Sea sites. * denotes a significant difference between sediment concentrations inside and outside critical habitat. Interim sediment quality guideline for PCBs and PBDEs protective of killer whales is denoted by the horizontal line.

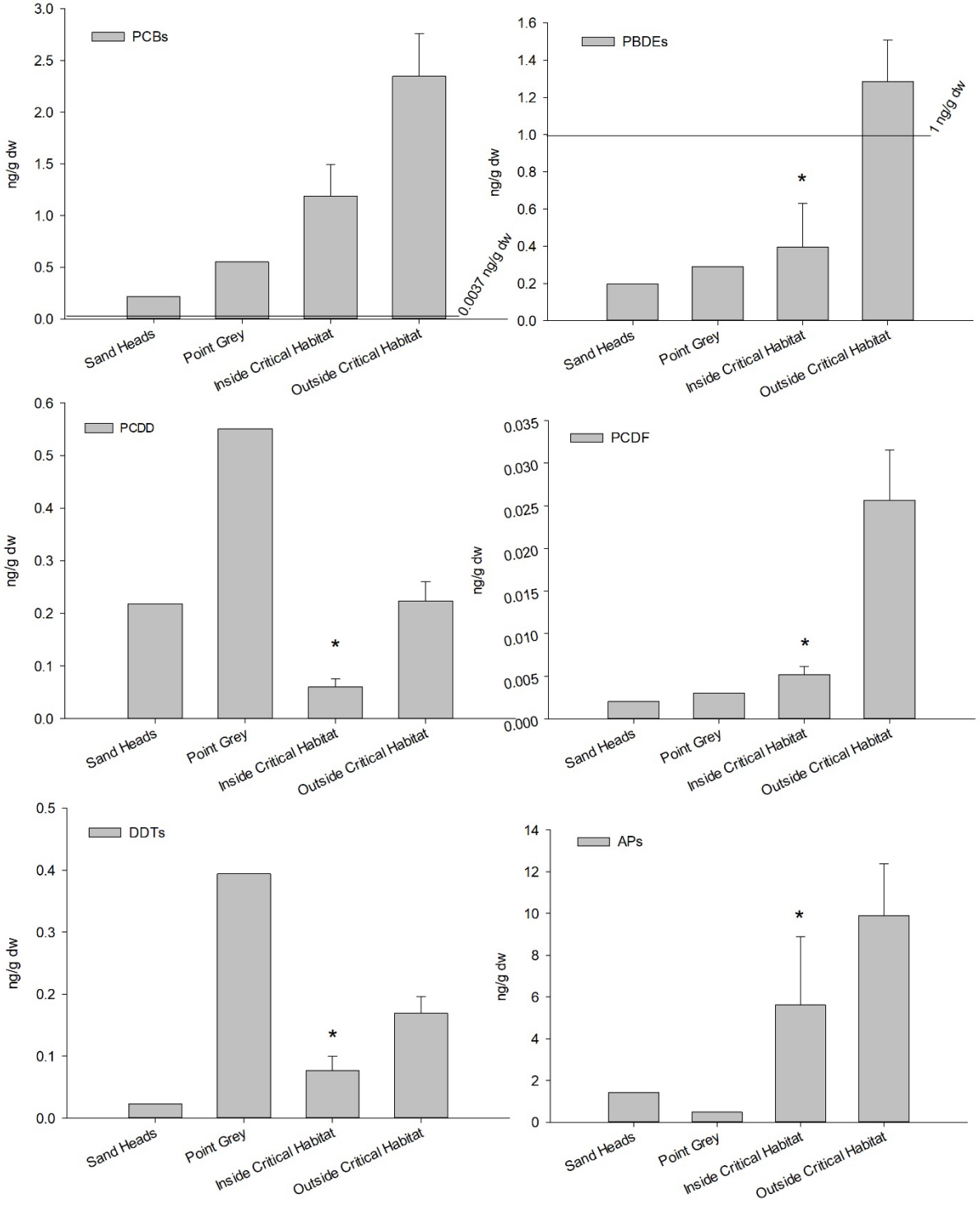

Figure 4. Metal (Copper, lead, antimony, barium, selenium, silver) concentrations inside and outside Southern Resident Killer Whale (SRKW) critical habitat and in two Disposal at Sea sites. * denotes a significant difference between sediment concentrations inside and outside critical habitat. CCME interim sediment quality guideline for copper and lead is indicated by the horizontal line.

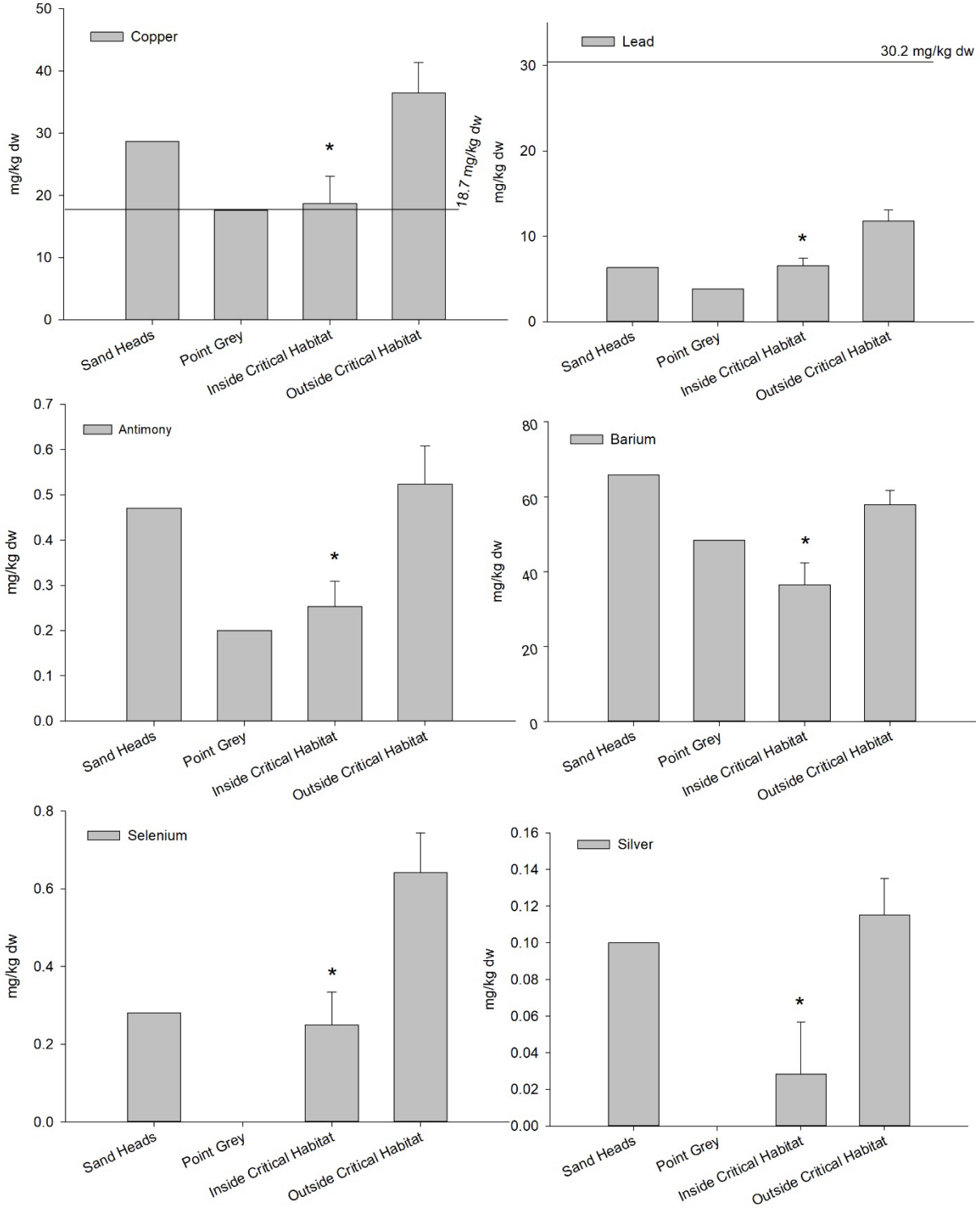

Figure 5. Total PCBs (A), PBDEs (B), PAHs (C), and PCDD (D) concentrations measured in 10 sediment samples at SGS AXYS Analytical Ltd. (AXYS) and Maxxam Analytics Inc. (Maxxam). Totals are comprised of adding the concentrations of the same congeners measured at both labs. Axes units are reported in ng/g dry weight.

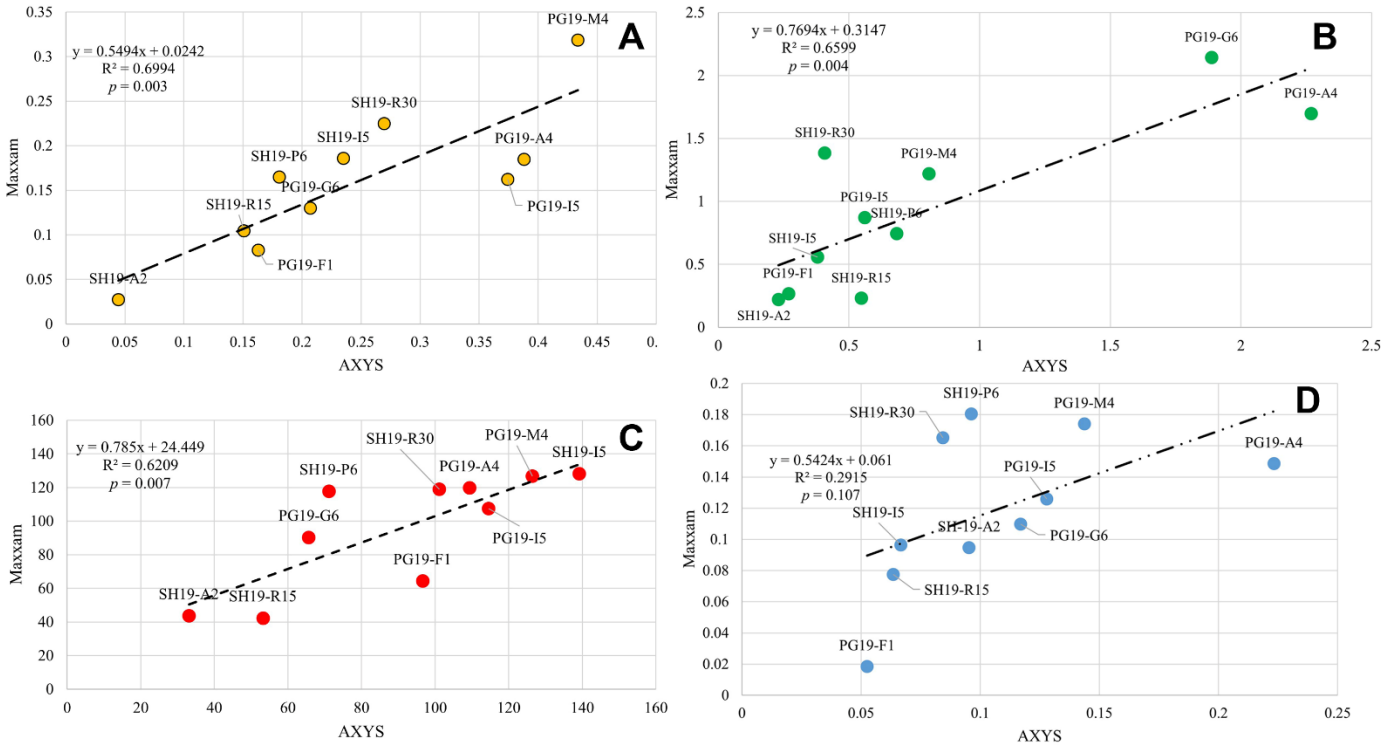

Table 1. Analyte group, method, and laboratory used for contaminant analyses in sediment samples.

Analyte Group (where applicable published reference method indicated)	Laboratory
Legacy and Current Use Pesticides by HRMS (EPA 1699)	SGS AXYS Analytical Ltd.
209 PCB Congeners by HRMS (EPA 1668C or Equivalent)	SGS AXYS Analytical Ltd.
165 PCB Congeners by HRMS/MS	Maxxam Analytics Inc.
PBDE Congeners by HRMS (EPA 1614A)	SGS AXYS Analytical Ltd.
36 PBDE Congeners by HRGC/HRMS	Maxxam Analytics Inc.
Dioxins and Furans by HRMS (EPA 1613B)	SGS AXYS Analytical Ltd.
Dioxin and Furans by HRMS/MS	Maxxam Analytics Inc.
PFAS by LC MS/MS Isotope Dilution (40 compound minimum)	SGS AXYS Analytical Ltd.
PAHs, Alkylated PAHs, Alkylated PAH Groups by Isotope Dilution GC/MS (8270D modified by EPA 1625)	SGS AXYS Analytical Ltd.
PAHs GC/MS Low Level	Maxxam Analytics Inc.
PPCPs by LC MS/MS (Modified EPA 1694)	SGS AXYS Analytical Ltd.
Alkylphenols by Isotope dilution GC/MS or LC MS/MS	SGS AXYS Analytical Ltd.
HBCDD isomers by LC-MS/MS using LC MS/MS isotope dilution quantification	SGS AXYS Analytical Ltd.
TBBPA by LC-MS/MS	SGS AXYS Analytical Ltd.
Polychlorinated paraffins by LR-GC-MS	SGS AXYS Analytical Ltd.
Mercury by CVAAS, methylmercury by GCAFS and metals by CRC ICPMS	ALS Canada Ltd.

Total mercury and metals by ICPMS	Maxxam Analytics Inc.
Tributyltin	Pacific Rim Laboratories

Table 2. Surficial sediment samples collected by Smith-McIntyre and Petit-Ponar grabs at Sand Heads (SH) and Point Grey (PG) disposal sites, and inside and outside Southern Resident Killer Whale (SRKW) Critical Habitat (CH) from June 13 to November 18, 2019. Two shallow (<20 m) sites were collected in February 2018.

Sample ID	Date	Latitude	Longitude	Depth (m)	Area	Collection Method
SRKW19-001	15-Jun-19	48.898	-123.209	-139	Ambient within KWCH	GRB-(Smith-Mac)
SRKW19-002	15-Jun-19	48.953	-123.311	-180	Ambient within KWCH	GRB-(Smith-Mac)
SRKW19-003	13-Jun-19	49.036	-123.289	-127	Ambient within KWCH	GRB-(Smith-Mac)
SRKW19-004	14-Jun-19	49.135	-123.426	-262	Ambient outside KWCH	GRB-(Smith-Mac)
SRKW19-005	14-Jun-19	49.096	-123.333	-100	Within Disposal Site	GRB-(Smith-Mac)
SRKW19-006	15-Jun-19	49.020	-123.494	-246	Ambient outside KWCH	GRB-(Smith-Mac)
SRKW19-007	14-Jun-19	49.180	-123.303	-92	Ambient within KWCH	GRB-(Smith-Mac)
SRKW19-008	12-Jun-19	49.222	-123.420	-295	Ambient outside KWCH	GRB-(Smith-Mac)
SRKW19-009	12-Jun-19	49.174	-123.561	-375	Ambient outside KWCH	GRB-(Smith-Mac)
SRKW19-010	12-Jun-19	49.264	-123.568	-347	Ambient outside KWCH	GRB-(Smith-Mac)
SRKW19-011	12-Jun-19	49.296	-123.312	-135	Ambient outside KWCH	GRB-(Smith-Mac)
SRKW19-012	11-Oct-19	49.266	-123.365	-246	Within Disposal Site	GRB-(Smith-Mac)
SRKW19-013	12-Oct-19	49.292	-123.419	-199	Ambient outside KWCH	GRB-(Smith-Mac)
SRKW19-014	14-Oct-19	49.371	-124.067	-253	Ambient outside KWCH	GRB-(Smith-Mac)
SRKW19-015	14-Oct-19	49.396	-124.279	-345	Ambient outside KWCH	GRB-(Smith-Mac)
SRKW19-016	14-Oct-19	49.375	-123.768	-192	Ambient outside KWCH	GRB-(Smith-Mac)
SRKW19-017	15-Oct-19	48.777	-123.334	-99	Ambient within KWCH	GRB-(Smith-Mac)
SRKW19-018	15-Oct-19	48.838	-123.093	-196	Ambient within KWCH	GRB-(Smith-Mac)
SRKW19-019	14-Oct-19	49.232	-123.742	-400	Ambient outside KWCH	GRB-(Smith-Mac)
PTP2-STH1	23-Oct-19	49.131	-123.229	-15	Outside KWCH	GRB-(Petit-Ponar)
PTP2-SI1	18-Nov-19	49.176	-123.188	-8	Outside KWCH	GRB-(Petit-Ponar)
PTP2-GNP1	22-Feb-18	48.753	-123.428	-15.5	Outside KWCH	GRB-(Petit-Ponar)
PTP2-EH2	21-Feb-18	48.423	-123.457	-19	Outside KWCH	GRB-(Petit-Ponar)
PTP2-PH	13-Nov-19	49.628	-124.042	-20	Outside KWCH	GRB-(Petit-Ponar)

Table 3. Surficial sediment samples collected by Smith-McIntyre grab at Sand Heads (SH) and Point Grey (PG) sites, including within the disposal site from June 13 to October 12, 2019.

Sample ID	Date	Latitude	Longitude	Depth (m)	Area	Collection Method
SH19-A2	13-Jun-19	49.105	-123.326	-179	Ambient within KWCH	GRB-(Smith-Mac)
SH19-I5	15-Jun-19	49.061	-123.326	-143	Ambient within KWCH	GRB-(Smith-Mac)
SH19-P6	14-Jun-19	49.137	-123.349	-168	Ambient within KWCH	GRB-(Smith-Mac)
SH19-R15	13-Jun-19	49.084	-123.376	-204	Ambient outside KWCH	GRB-(Smith-Mac)
SH19-R30	15-Jun-19	49.101	-123.454	-312	Ambient outside KWCH	GRB-(Smith-Mac)
PG19-A4	13-Oct-19	49.307	-123.365	-221	Ambient outside KWCH	GRB-(Smith-Mac)
PG19-F1	11-Oct-19	49.253	-123.353	-228	Within Disposal Site	GRB-(Smith-Mac)
PG19-G6	13-Oct-19	49.178	-123.301	-83	Ambient within KWCH	GRB-(Smith-Mac)
PG19-I5	13-Oct-19	49.190	-123.364	-220	Ambient within KWCH	GRB-(Smith-Mac)
PG19-M4	12-Oct-19	49.255	-123.441	-243	Ambient outside KWCH	GRB-(Smith-Mac)

Table 4. Surficial sediment properties for Sand Heads (SH) and Point Grey (PG) disposal sites, and inside and outside Southern Resident Killer Whale (SRKW) Critical Habitat sites included % total organic carbon (TOC), % moisture, and percentages of gravel, sand, silt, and clay.

Sample	% TOC	% moisture	% sand	% silt	% clay	$\delta^{15}N$	$\delta^{13}C$
SRKW-19-001	0.526	34.1	72.6	22.5	4.9	5.834	-22.31
SRKW-19-002	1.08	47.6	34.8	53.4	11.7	5.948	-21.37
SRKW-19-003	0.753	31.5	85.2	10.9	3.9	5.023	-22.08
SRKW-19-004	1.49	59.5	4.4	72.2	23.4	5.117	-21.76
SRKW-19-005	0.401	40.3	38	50	12	1.959	-25.43
SRKW-19-006	1.34	63.2	1	71.1	27.9	5.255	-22.96
SRKW-19-007	1.18	55.4	5	72.2	22.8	3.922	-24.36
SRKW-19-008	1.63	69.1	<1.0	68	31.4	5.429	-22.35
SRKW-19-009	1.59	67.1	<1.0	67.3	32.4	5.718	-22.03
SRKW-19-010	1.55	70.8	<1.0	64.2	35.4	5.368	-22.52
SRKW-19-011	1.28	59.9	1.2	69.1	29.7	4.505	-23.37
SRKW-19-012	0.401	30.2	52.9	27.3	10	4.724	-24.94
SRKW-19-013	1.42	63.7	3	63.6	33.4	5.155	-23.39
SRKW-19-014	1.85	73.1	1.4	54.9	43.7	5.956	-21.87
SRKW-19-015	2.46	79.5	<1.0	60.8	38.6	6.565	-21.79
SRKW-19-016	1.54	67	2.3	58.1	39.6	6.111	-22.02
SRKW-19-017	0.699	35.7	70.3	23.2	6.1	6.208	-21.76
SRKW-19-018	1.18	55.1	33.2	54.2	12.5	5.565	-21.55
SRKW-19-019	1.85	78.5	<1.0	60.4	39.4	6.397	-22.07

Table 5. Average ± standard deviation (range, ng/g dw) for PCBs, PBDEs, TBBPA, HBCDD, PFASs, PAHs, APs, PCDD, PCDF, and legacy and current-use pesticides for Sand Heads (SH) and Point Grey (PG) disposal sites, and inside and outside Southern Resident Killer Whale (SRKW) Critical Habitat sites.

Class	Analytes	Within Disposal at Sea Sites		Inside SRKW Critcal Habitat	Outside SRKW Critical Habitat
		Sand Heads SRKW19-5	Point Grey SRKW19-12	*n*=6	*n*=16
PCBs	SumPCBs	0.2184	0.5506	1.184 ± 0.753 (0.3775 - 2.469)	2.348 ± 1.644 (0.179 - 6.798)
PBDEs	SumPBDEs	0.1986	0.2902	0.3951 ± 0.574* (0.0511 - 1.547)	1.284 ± 0.893 (0.243 - 3.596)
TBBPA	TBBPA	ND	ND	ND	0.0731 ± 0.292 (0.00 - 1.170)
HBCDD	SumHBCDD	ND	ND	0.1137 ± 0.278 (0.00 - 0.682)	1.343 ± 5.256 (0.00 - 21.05)
PFASs	SumPFASs	ND	ND	ND	0.357 ± 0.569 (0.00 - 2.160)
PAHs	SumPAHs	498.63	626.24	1025 ± 513.7 (292.5 – 1727)	1191 ± 851 (53.01 – 3515)
Alkylphenols	SumAPs	1.420	0.4770	5.622 ± 7.984* (0.688 - 21.43)	9.897 ± 9.944 (0 - 39.95)
Dioxin /Furans	SumPCDDs	0.0684	0.0431	0.0600 ± 0.0377* (0.0255 - 0.1154)	0.2234 ± 0.148 (0.0145 - 0.5015)
	SumPCDFs	0.0020	0.0030	0.0052 ± 0.0023* (0.0014 - 0.0075)	0.0256 ± 0.0236 (0.0019 - 0.0960)
	TEQs	0.0003	0.0001	0.0007 ± 0.0003 (0.0003 - 0.0009)	0.0024 ± 0.0022 (0.00002 – 0.0089)
Legacy Pesticides	SumDDTs	0.0230	0.3940	0.0767 ± 0.0567* (0.00 - 0.150)	0.169 ± 0.111 (0.00 - 0.390)
	SumChlordanes	ND	0.028	0.0027 ± 0.0042 (0.00 - 0.009)	0.0015 ± 0.0038 (0.00 - 0.014)
	SumEndosulphan	0.067	0.008	0.0723 ± 0.0898 (0.00 - 0.225)	0.101 ± 0.0808 (0.00 - 0.297)
	SumHCH	ND	ND	0.0137 ± 0.0173 (0.00 - 0.042)	0.0116 ± 0.0173 (0.00 - 0.048)
	Hexachlorobenzene	0.015	0.009	0.0309 ± 0.015 (0.013 - 0.047)	0.0471 ± 0.0292 (0.00 - 0.107)
	Octachlorostyrene	ND	ND	ND	0.0011 ± 0.0045 (0 - 0.018)
	Dieldrin	0.00	0.0130	0.0008 ± 0.002 (0.00 - 0.005)	0.0022 ± 0.007 (0 - 0.028)
	Mirex	ND	ND	0.0003 ± 0.0008 (0.00 - 0.002)	ND
	Hepatochlor Epoxide	0.014	0.001	ND	0.0216 ± 0.0472 (0.00 – 0.179)
	SumEndrin	ND	ND	ND	0.0060 ± 0.0237 (0 - 0.095)
Current-use pesticide	Alachlor	1.640	0.0850	ND	0.1001 ± 0.2548 (0 – 0.9235)

*Denotes significant difference between inside and outside SRKW Critical Habitat sites.

Table 6. Average ± standard deviation (range, mg/kg dw) for metals in Sand Heads (SH) and Point Grey (PG) disposal sites, and inside and outside Southern Resident Killer Whale (SRKW) Critical Habitat sites.

	Within Disposal at Sea Sites		Inside SRKW Critcal Habitat	Outside SRKW Critical Habitat
Analytes	Sand Heads SRKW19-5	Point Grey SRKW19-12	*n*=6	*n*=16
Aluminum	13900	11800	14367 ± 3800 (9600 - 20200)	19019 ± 4945 (9160 – 24100)
Antimony	0.4700	0.2000	0.2533 ± 0.135* (0.150 - 0.520)	0.5231 ± 0.3376 (0.1200 – 1.560)
Arsenic	6.830	3.680	6.350 ± 1.319 (5.190 - 8.840)	8.716 ± 3.023 (3.00 – 13.80)
Barium	65.80	48.30	36.47 ± 14.28* (24.10 - 62.90)	57.84 ± 15.52 (25.10 – 77.00)
Beryllium	0.3400	0.1900	0.3317 ± 0.765 (0.280 - 0.440)	0.4212 ± 0.1319 (0.1900 – 0.5800)
Bismuth	0.00	0.00	0.0367 ± 0.0898 (0.00 - 0.22)	0.09125 ± 0.1218 (0.00 – 0.2600)
Boron	12.00	9.000	21.15 ± 5.826 (11.40 - 28.50)	33.61 ± 18.44 (0.00 – 73.40)
Cadmium	0.1690	0.0770	0.1458 ± 0.0423 (0.0640 - 0.182)	0.3883 ± 0.7724 (0.0780 – 3.260)
Calcium	7920	4600	8720 ± 5170 (4960 – 18900)	11705 ± 17046 (4400 – 75400)
Chromium	38.20	21.20	32.88 ± 8.189 (27.10 - 49.10)	40.80 ± 11.33 (17.00 – 58.20)
Cobalt	11.90	6.940	8.817 ± 2.721 (7.330 -14.30)	13.10 ± 5.44 (4.410 – 24.40)
Copper	28.70	17.60	18.70 ± 10.688* (11.30 - 39.50)	36.47 ± 19.53 (9.170 – 95.20)
Iron	28000	19700	26450 ± 5128 (20300 – 35600)	31194 ± 8235 (15400 – 40900)
Lead	6.330	3.850	6.565 ± 2.162* (3.830 - 7.920)	11.81 ± 5.152 (3.820 – 20.30)
Lithium	14.00	7.900	18.17 ± 4.203 (10.90 - 21.40)	20.61 ± 5.996 (8.100 – 27.60)
Magnesium	10600	6210	9228 ± 2417 (7510 – 14000)	12546 ± 3642 (6190 – 18900)
Manganese	406.0	289.0	274.3 ± 77.927 (219.0 - 430.0)	1101 ± 1709 (151.0 – 6100)
Methylmercury (MeHg)	0.0760	0.00	0.1620 ± 0.175 (0.00 - 0.4560)	0.2026 ± 0.2223 (0.00 – 0.7410)
Mercury	0.0415	0.0276	0.0435 ± 0.0175 (0.0278 - 0.0702)	0.0778 ± 0.0361 (0.0160 – 0.1550)
Molybdenum	0.8100	0.3900	0.5167 ± 0.2695 (0.2700 - 0.4700)	1.1437 ± 1.259 (0.03400 – 5.680)
Nickel	41.10	15.90	27.75 ± 10.144 (19.70 – 46.90)	37.71 ± 14.16 (11.90 – 46.20)
Phosphorus	683.0	465.0	719.7 ± 159.0 (580.0 – 1020)	917.1 ± 206.0 (549.0 – 1410)
Potassium	1600	1380	2063 ± 570.8 (1220 – 2730)	3153 ± 1279 (640.0 – 5330)
Selenium	0.2800	0.00	0.2500 ± 0.2051*	0.6412 ± 0.4069

			(0.00 - 0.4400)	(0.00 – 1.470)
Silver	0.1000	0.00	0.0283 ± 0.0694* (0.00 - 0.1700)	0.115 ± 0.0802 (0.00 – 0.3400)
Sodium	8300	5270	9415 ± 3978 (5130 – 14400)	18292 ± 9439 (1470 – 38200)
Strontium	48.60	39.10	52.02 ± 14.97 (34.40 - 74.30)	96.09 ± 134.6 (23.00 – 597.0)
Sulfur	0.00	0.00	1400 ± 1131 (0.00 – 2600)	2544 ± 2154 (0.00 – 9700)
Thallium	0.0760	0.00	0.0982 ± 0.0152 (0.0820 - 0.1220)	0.1144 ± 0.0797 (0.0560 – 0.4000)
Tin	0.00	0.00	0.00 ± 0.00 (n/a)	0.3937 ± 1.575 (0.00 – 9700)
Titanium	906.0	715.0	887.7 ± 126.3 (755.0 – 1100)	918.0 ± 145.3 (666.0 – 1100)
Tungsten	0.00	0.00	0.00 ± 0.00 (n/a)	0.00 ± 0.00 (n/a)
Uranium	0.6320	0.4640	0.5865 ± 0.1856 (0.4060 - 0.9220)	1.012 ± 0.540 (0.3200 – 2.780)
Vanadium	50.30	49.30	50.43 ± 8.630 (41.10 - 66.00)	64.08 ± 18.84 (32.50 – 106.0)
Zinc	66.00	40.60	60.42 ± 15.93 (45.90 - 89.00)	83.80 ± 25.26 (36.00 – 136.0)
Zirconium	7.700	4.600	6.150 ± 1.445 (4.100 - 8.400)	6.587 ± 2.113 (3.00 – 11.00)

*Denotes significant difference between inside and outside SRKW Critical Habitat sites.

Table 7. Top six PCB & PBDE congeners by concentration at all sites, as well as the Sand Heads (SH) and Point Grey (PG) disposal sites, and inside and outside Southern Resident Killer Whale (SRKW) Critical Habitat sites. Average ± standard deviation (ng/g dw).

	All Sites (n = 24)		Sands Head		Point Grey		Inside SRKW Critical Habitat (n =6)		Outside SRKW Critical Habitat (n = 16)	
PCBs	**129 + 138 + 160 + 163**	0.1014 ± 0.1015	**20 + 28**	0.0177	**20 + 28**	0.0291	**152**	0.1383 ± 0.3093	**129 + 138 + 160 + 163**	0.1310 ± 0.1108
	61 + 70 + 74 + 76	0.0978 ± 0.0834	**61 + 70 + 74 + 76**	0.0093	**61 + 70 + 74 + 76**	0.0271	**129 + 138 + 160 + 163**	0.0518 ± 0.0365	**61 + 70 + 74 + 76**	0.1280 ± 0.0869
	153 + 168	0.0838 ± 0.0831	**8**	0.0086	**31**	0.0241	**153 + 168**	0.0439 ± 0.0373	**153 + 168**	0.1077 ± 0.0899
	118	0.0798 ± 0.0738	**153 + 168**	0.0086	**118**	0.0183	**61 + 70 + 74 + 76**	0.0438 ± 0.0176	**118**	0.1048 ± 0.0786
	110 + 115	0.0707 ± 0.0665	**129 + 138 + 160 + 163**	0.0086	**44 + 47 + 65**	0.0181	**180 + 193**	0.0413 ± 0.0603	**110 + 115**	0.0913 ± 0.0725
	20 + 28	0.0679 ± 0.0523	**44 + 47 + 65**	0.0067	**52**	0.0180	**147 + 149**	0.0398 ± 0.0459	**66**	0.0866 ± 0.0583
PBDEs	**209**	0.7066 ± 0.7298	**209**	0.1077	**209**	0.2280	**209**	0.2404 ± 0.4235	**209**	0.9488 ± 0.7538
	47	0.0668 ± 0.0452	**47**	0.0263	**47**	0.0185	**47**	0.0466 ± 0.0399	**47**	0.0800 ± 0.0446
	99	0.0354 ± 0.0270	**99**	0.0249	**99**	0.0127	**99**	0.0234 ± 0.0254	**99**	0.0419 ± 0.0275
	207	0.0245 ± 0.0241	**206**	0.0066	**49**	0.0045	**206**	0.0128 ± 0.0183	**207**	0.0318 ± 0.0250
	208	0.0211 ± 0.0235	**207**	0.0063	**100**	0.0044	**207**	0.0117 ± 0.0164	**208**	0.0290 ± 0.0249
	206	0.0204 ± 0.0193	**100**	0.0057	**207**	0.0033	**49**	0.0100 ± 0.0101	**206**	0.0254 ± 0.0193

Table 8. Percent detect for PCB (n = 159) and PBDE (n = 40) congener data.

PCBs	Frequency Detected	Number of Congeners
All Sites (n = 24)	0%	2
	>0 to <70%	28
	70 ≤ 100%	57
	100%	72
PBDEs		
All Sites (n = 24)	0%	1
	>0 to <70%	13
	70 ≤ 100%	13
	100%	13

Table 9. Sediment samples from Sand Heads (SH) and Point Grey (PG) disposal sites, and inside and outside Southern Resident Killer Whale (SRKW) Critical Habitat sites were analyzed for 159 polychlorinated biphenyls (PCBs). All values are reported in pg/g dry weight. < = values below reporting limit (RL). NDR = peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration.

	SRKW19-1	SRKW19-1 (Duplicate)	SRKW19-2	SRKW19-3	SRKW19-4	SRKW19-5	SRKW19-6	SRKW19-7
PCB-1	1.75	1.68	3.29	0.79	2.92	0.73	5.72	1.58
PCB-2	8.036	9.326	15.086	4.166	18.686	1.166	17.7	8.106
PCB-3	0.89	1.42	2.28(NDR)	0.4	2.01	0.2(NDR)	0.3	1.65(NDR)
PCB-4	4.06	3.75	5.45	1.69	4.66	3.2	6.4	3.86
PCB-5	0.198	< 0.167	0.233	< 0.11	< 0.373	< 0.253	0.209	< 0.294
PCB-6	2.1	1.68	2.78	0.968	3.16	0.995	3.78	1.95
PCB-7	0.527	0.508	0.735	0.381	0.7	< 0.237	1.04	0.551
PCB-8	14.4	13.3	19.8	6.19	20.3	8.63	23.7	12.4
PCB-9	0.46	0.411	0.529	0.201	0.593	< 0.227	0.78	0.389
PCB-10	0.138	< 0.147	0.146	< 0.0966	< 0.314	< 0.237	0.229	< 0.276
PCB-11	14.43	14.73	31.73	6.43	39.03	2.27	31.5	20.63
PCB-12 + 13	2.47	2.33	3.43	1.15	4.13	0.769	4.98	2.22
PCB-14	0.197	0.151	0.301	< 0.0991	< 0.352	< 0.227	0.391	< 0.265
PCB-15	13.8	13	19.9	6.71	15.5	5.56	32.6	14.5
PCB-16	5.49	5.74(NDR)	5.11	3.58(NDR)	4.64	1.87	3.985	3.68(NDR)
PCB-17	6.423	5.913	7.773	2.563(NDR)	5.543	4.203	5.759	4.663
PCB-18 + 30	10.878	8.198	15.278	3.048(NDR)	9.328	2.438	9.88	7.808(NDR)
PCB-19	1.05(NDR)	1.61(NDR)	1.35	0.792	1.49	1.42(NDR)	1.43	1.63(NDR)
PCB-20 + 28	44.919	44.519	58.719	17.119	48.419	17.719	68.516	33.119
PCB-21 + 33	20.479	21.479	25.179	7.899	18.679	4.199	23.8	17.079
PCB-22	13.424	11.624	15.924	6.224(NDR)	14.324	2.234	18.9	8.904
PCB-23	< 0.879	< 0.717	< 1.13	< 1.22	< 0.0657	< 0.636	< 0.076	< 0.738
PCB-24	0.106(NDR)	< 0.29	< 0.457	< 0.466	0	< 0.181	0.119(NDR)	< 0.308
PCB-25	2.767	2.197	3.527	1.087	3.697	< 0.506	4.18	2.327
PCB-26 + 29	4.784	5.214	5.804	1.214	5.804	1.254	8.56	3.944
PCB-27	1.02(NDR)	0.662(NDR)	1.03(NDR)	< 0.473	1.03	0.998(NDR)	1.13	0.75
PCB-31	26.74	27.04	34.34	10.34	29.14	6.0	43.183	21.04
PCB-32	5.88	5.34	7.01	1.92	5.25	3.97	6.43	4.19
PCB-34	< 0.865	< 0.706	< 1.14	< 1.2	0.159	< 0.626	0.242	< 0.727
PCB-35	1.778	2.298	< 1.22	< 1.41	1.918	< 0.736	2.84	< 0.855
PCB-36	< 0.889	< 0.726	< 1.09	< 1.23	1.11	< 0.643	1.35	< 0.747
PCB-37	11.839	10.339	16.039	4.719	11.539	1.149(NDR)	25.2	9.189(NDR)
PCB-38	< 0.832	< 0.68	< 1.08	< 1.15	0.521	< 0.602	0.537	< 0.699
PCB-39	< 0.87	< 0.71	< 1.09	< 1.2	0.284	< 0.629	0.475	< 0.731
PCB-40 + 41 + 71	15.31	16.31	16.01	5.35	11.91	3.51	17	10.01
PCB-42	7.069(NDR)	6.879	8.529	2.589(NDR)	6.479	1.409	9.305	5.099

	SRKW19-1	SRKW19-1 (Duplicate)	SRKW19-2	SRKW19-3	SRKW19-4	SRKW19-5	SRKW19-6	SRKW19-7
PCB-43	0.697	1.36(NDR)	0.656	< 0.116	0.747	0.595(NDR)	0.737(NDR)	< 0.104
PCB-44 + 47 + 65	24.538	21.638	25.938	8.358	20.238	6.668	32.3	15.438
PCB-45 + 51	3.076	2.366	3.686	0.44(NDR)	2.266	1.036(NDR)	3.131	2.486
PCB-46	1.638(NDR)	0.928	0.838(NDR)	< 0.103	0.807	0.481	1.07	0.864(NDR)
PCB-48	4.324	4.644	5.444	1.984(NDR)	3.514	0.356(NDR)	5.447	2.714
PCB-49 + 69	13.745	14.645	17.245	6.265	13.145	3.385(NDR)	21.748	7.975
PCB-50 + 53	2.25(NDR)	2.21(NDR)	2.48	0.797	1.98	0.57	2.63	2.17(NDR)
PCB-52	22.3	23.3	25.5(NDR)	7.47	19.7	5.74	31.42	14.9
PCB-54	0.319(NDR)	0.187(NDR)	< 0.0482	< 0.0656	0.076	0.065(NDR)	< 0.046	< 0.0534
PCB-55	< 0.479	1.41	1.08	0.792(NDR)	0.816	0.388	1.39	1.02
PCB-56	18.096	19.496	25.496	7.536	19.596	3.056	35.174	11.696
PCB-57	< 0.424	< 0.97	< 0.622	< 0.254	0.243	< 0.249	0.298	< 0.321
PCB-58	< 0.429	< 0.982	< 0.625	< 0.258	0.169	< 0.253	0.215	< 0.325
PCB-59 + 62 + 75	2.593	2.263	2.693	0.973	1.723	0.135(NDR)	2.99	1.563(NDR)
PCB-60	14.623	14.123	16.623	5.163	12.723	1.343(NDR)	< 0.128	9.343
PCB-61 + 70 + 74 + 76	54.6	51.6	69.3	23.2	58.7	9.33	125.164	33.1
PCB-63	1.4	1.16	1.46	0.706(NDR)	1.32	< 0.244	2.69	0.731(NDR)
PCB-64	12.325	12.025	14.525	4.355	9.735	2.725	14.708	7.155
PCB-66	39.386	39.886	49.286	15.486	40.386	6.236	78.357	27.386
PCB-67	1.02	0.864(NDR)	1.35	0.633	0.988	< 0.208	1.94	0.574(NDR)
PCB-68	0.437(NDR)	< 0.935	0.63	< 0.245	0.407	< 0.241	0.75	< 0.31
PCB-72	< 0.414	< 0.946	< 0.604	0.361(NDR)	0.425	< 0.243	0.551	0.374(NDR)
PCB-73	0.225	0.265(NDR)	0.307(NDR)	0.166(NDR)	< 0.0493	0.231(NDR)	< 0.046	0.27
PCB-77	4.97	5.05	7.06	1.87	4.85	0.643	11.645	3.25
PCB-78	< 0.482	< 1.1	< 0.672	< 0.289	< 0.114	< 0.284	< 0.125	< 0.365
PCB-79	1.56	< 0.828	0.671	< 0.217	0.554	< 0.213	0.895	< 0.274
PCB-80	< 0.421	< 0.963	< 0.613	< 0.253	< 0.0972	< 0.248	0.433	< 0.319
PCB-81	0.182	0.243	0.247	0.092	0.2	< 0.0463	0.428	0.097
PCB-82	7.794	5.434	11.794	2.204	4.424	0.844(NDR)	6.52	5.324
PCB-83 + 99	23.378	21.578	29.878	7.858	22.278	2.918(NDR)	39.754	15.678
PCB-84	7.267	5.737	9.087	1.407	6.517	0.788(NDR)	9.813	4.447
PCB-85 + 116 + 117	7.76	9.39	10.1	2.36	8.07	1.13	11.368	4.19
PCB-86 + 87 + 97 + 109 + 119 + 125	25.5	21.7	30.6	8.48(NDR)	22.8	4.91	35.886	16.8
PCB-88 + 91	4.85	4.08	5.04	1.36(NDR)	4.07	0.534(NDR)	6.409	2(NDR)
PCB-89	0.673(NDR)	0.545(NDR)	0.522(NDR)	< 0.097	0.331	0.323(NDR)	0.459	0.368(NDR)
PCB-90 + 101 + 113	28.732	29.432	49.232	11.232	30.632	4.062(NDR)	51.637	19.232
PCB-92	6.67	6.12	9.98	1.17	5.71	< 0.0699	< 0.115	3.37
PCB-93 + 95 + 98 + 100 + 102	23.566	23.866	38.066	7.616	18.066	3.866	30.9	14.766
PCB-94	< 0.0719	0.231(NDR)	< 0.0568	0.243(NDR)	0.161	0.1(NDR)	0.285	0.17(NDR)
PCB-96	0.149(NDR)	0.22(NDR)	0.223(NDR)	0.106(NDR)	0.166	< 0.0463	0.197	0.135(NDR)
PCB-103	0.405	0.348(NDR)	0.27(NDR)	0.42(NDR)	0.24(NDR)	0.219(NDR)	0.381	< 0.0551
PCB-104	< 0.0482	0.078(NDR)	< 0.0482	< 0.0646	< 0.0493	< 0.0508	< 0.046	< 0.0495
PCB-105	20.293	20.193	28.193	6.633	18.693	2.693	39.626	12.093

	SRKW19-1	SRKW19-1 (Duplicate)	SRKW19-2	SRKW19-3	SRKW19-4	SRKW19-5	SRKW19-6	SRKW19-7
PCB-106	< 0.515	0.357(NDR)	< 0.493	0.417(NDR)	< 0.218	0.205(NDR)	< 0.164	< 0.478
PCB-107	3.978	2.798	4.748	0.728	3.978	0.428(NDR)	7.1	1.138
PCB-108 + 124	1.67	1.51(NDR)	2.58	0.858(NDR)	1.43(NDR)	0.623(NDR)	2.798	1.39
PCB-110 + 115	43.767	40.267	61.067	13.967	38.767	6.447	55.766	23.267
PCB-111	0.209	0.195(NDR)	0.101(NDR)	< 0.0659	0.075	0.138(NDR)	0.112	0.197(NDR)
PCB-112	< 0.0527	< 0.0634	< 0.0482	< 0.0706	< 0.0607	< 0.051	< 0.0866	0.263(NDR)
PCB-114	0.808	0.922	1.15	0.307	0.908	0.142	1.498	0.476
PCB-118	39.16	39.96	55.56	13.36	38.46	5.92	82.418	25.66
PCB-120	0.326(NDR)	< 0.0602	0.069(NDR)	0.068	0.21	0.134(NDR)	0.214	0.195(NDR)
PCB-121	0.184(NDR)	< 0.0629	< 0.0482	0.135(NDR)	< 0.0618	< 0.0505	< 0.0869	0.306(NDR)
PCB-122	0.788	0.99(NDR)	< 0.591	0.537(NDR)	0.631	0.278(NDR)	0.754	< 0.574
PCB-123	0.783	0.867	0.989	0.214	0.833	0.129	1.706	0.554
PCB-126	0.291	0.335	0.487	0.122	0.263	0.059	0.589	0.222
PCB-127	< 0.572	< 0.363	< 0.534	0.201(NDR)	< 0.232	0.15(NDR)	< 0.174	< 0.531
PCB-128 + 166	9.91	9.94	20.3	3.71(NDR)	10.5	< 0.0607	16.421	7.69
PCB-129 + 138 + 160 + 163	41.819	44.419	129.719	19.819	50.819	8.569	97.19	35.219
PCB-130	3.09	4.23	4.94	0.845(NDR)	3.03	< 0.08	5.24	< 0.116
PCB-131	0.111(NDR)	< 0.531	0.878(NDR)	< 0.103	0.274	0.173	0.671	0.593
PCB-132	15.843	15.743(NDR)	50.543	4.973	12.643	2.573(NDR)	21.9	10.343
PCB-133	0.898(NDR)	< 0.545	1.86	< 0.106	0.768	0.137(NDR)	1.44	< 0.106
PCB-134 + 143	1.12	2.47(NDR)	5.14	< 0.111	1.75	< 0.0769	2.6	0.978(NDR)
PCB-135 + 151 + 154	11.3(NDR)	12	54.8	4.36(NDR)	9.93	3.11(NDR)	15.116	9.46
PCB-136	3.668	2.758(NDR)	20.538	1.128(NDR)	2.918	0.573(NDR)	4.363	2.148
PCB-137	1.8(NDR)	< 0.572	< 0.251	1.16	2.04	0.433(NDR)	2.64	1.33(NDR)
PCB-139 + 140	1.65(NDR)	0.924(NDR)	< 0.231	0.211(NDR)	0.713(NDR)	0.192(NDR)	0.984	0.538(NDR)
PCB-141	6.33	6.5	32.8	2.6	4.4	1.56(NDR)	6.97	3.26
PCB-142	< 0.0769	< 0.567	< 0.254	< 0.11	< 0.138	< 0.0765	< 0.21	< 0.111
PCB-144	2.02	< 0.085	7.38	0.926(NDR)	1.11	< 0.0882	1.67	0.549(NDR)
PCB-145	< 0.0525	0.091(NDR)	0.058(NDR)	0.136(NDR)	< 0.0493	< 0.0695	< 0.046	< 0.0754
PCB-146	6.88	7.37	18.6	1.89	7.61	1.44(NDR)	13.54	< 0.0875
PCB-147 + 149	26.947	25.147	141.447	11.647	25.247	5.087	53.23	21.947
PCB-148	0.446(NDR)	0.209(NDR)	0.979(NDR)	< 0.0896	0.381	< 0.0884	2.389	< 0.0958
PCB-150	< 0.0502	< 0.0641	< 0.0482	< 0.0675	0.083(NDR)	< 0.0665	0	0.129(NDR)
PCB-152	0.147(NDR)	< 0.0544	< 0.0482	0.071(NDR)	< 0.0493	< 0.0565	0.051	0.083(NDR)
PCB-153 + 168	34.159	35.259	124.759	14.259	40.859	8.579	81.19	26.259
PCB-155	< 0.0482	< 0.0573	< 0.0482	0.076	0.113	< 0.0597	0.029	< 0.0615
PCB-156 + 157	3.973	3.973	9.443	1.343	5.263	0.659	8.81	3.023
PCB-158	2.82	3.03	8.45	1.14	3.13	0.917	5.43	1.7(NDR)
PCB-159	0.155(NDR)	< 0.402	3.71(NDR)	0.479	0.476(NDR)	0.143(NDR)	0.661	< 0.0783
PCB-161	0.322(NDR)	< 0.383	< 0.172	0.261(NDR)	< 0.0957	< 0.0517	< 0.146	< 0.0747
PCB-162	0.611(NDR)	< 0.37	0.452	0.101(NDR)	0.16	< 0.0498	< 0.136	< 0.072
PCB-164	2.18	3.04(NDR)	8.96	1.12(NDR)	2.65	0.896(NDR)	4.77	1.92
PCB-165	0.222(NDR)	< 0.448	0.901(NDR)	0.199(NDR)	< 0.109	0.103(NDR)	0	< 0.0872

	SRKW19-1	SRKW19-1 (Duplicate)	SRKW19-2	SRKW19-3	SRKW19-4	SRKW19-5	SRKW19-6	SRKW19-7
PCB-167	1.5	1.59	3.6	0.514	1.91	0.261	3.5	1.19
PCB-169	< 0.08	< 0.1	< 0.18	< 0.0472	< 0.2	< 0.0463	< 0.23	< 0.055
PCB-170	6.96(NDR)	7.91	53.9	2.51	8.12	1.74(NDR)	10.457	5.6
PCB-171 + 173	1.65(NDR)	3.34	20.4	0.686(NDR)	2.89	1.18(NDR)	3.421	1.41
PCB-172	0.772(NDR)	0.862	13.8(NDR)	< 0.138	1.38	0.802(NDR)	1.48	0.957(NDR)
PCB-174	7.28	6.66	77.1	2.42(NDR)	6.69	2.05	10.065	5.52
PCB-175	0.628(NDR)	0.104(NDR)	3.04	< 0.13	0.29	0.597(NDR)	0.347	0.165(NDR)
PCB-176	1.53(NDR)	0.89(NDR)	10.7	0.495(NDR)	0.936	0.387	1.72	0.788(NDR)
PCB-177	3.49	3.86	27.7	1.43	5.38	1.39(NDR)	8.785	< 0.0574
PCB-178	2.08	2.2	14	1.31	2.73	0.195(NDR)	4.27	1.88(NDR)
PCB-179	3.68	4.52(NDR)	33.4	0.546(NDR)	3.83	0.577	6.52	2.69(NDR)
PCB-180 + 193	14.6	15.4(NDR)	176	8.08	17.4	4.51	25.382	15.9
PCB-181	< 0.0951	0.146(NDR)	0.51(NDR)	< 0.125	0.107(NDR)	< 0.0922	0.115	0.369
PCB-182	< 0.0973	< 0.0932	< 0.0771	0.404(NDR)	0.096(NDR)	0.391(NDR)	< 0.046	< 0.097
PCB-183 + 185	5.89	5.02	53.4	0.539(NDR)	4.81	1.58	7.73	5.75
PCB-184	< 0.0701	< 0.0671	0.262	0.346(NDR)	0.069	< 0.0679	0.133	0.566(NDR)
PCB-186	0.385(NDR)	< 0.0775	< 0.0641	< 0.106	< 0.0493	< 0.0784	< 0.046	< 0.0806
PCB-187	13.5	16.1	105	5.58	15.7	4.02	27.39	9.99
PCB-188	< 0.0697	< 0.0669	0.17(NDR)	0.095(NDR)	0.084	0.178(NDR)	0.022(NDR)	< 0.074
PCB-189	0.276	0.282	1.81	0.103(NDR)	0.32	0.049	0.523	0.172(NDR)
PCB-190	< 0.0792	< 0.0759	12.8	0.346	2.07	0.797(NDR)	2.62	1.75(NDR)
PCB-191	0.493	0.45(NDR)	1.36(NDR)	< 0.103	0.178(NDR)	< 0.0755	0.294	0.168(NDR)
PCB-192	< 0.0873	< 0.0836	0.566(NDR)	< 0.115	< 0.0493	< 0.0846	< 0.046	0.128(NDR)
PCB-194	2.74(NDR)	5.18	47.6	2.5(NDR)	4.48	0.83(NDR)	6.8	3.97
PCB-195	1.73(NDR)	1.54	30.2	0.577(NDR)	3.09	0.743(NDR)	4.428	2.33
PCB-196	1.83(NDR)	2.24(NDR)	26.8	0.99(NDR)	2.48	0.858(NDR)	2.84	< 0.129
PCB-197 + 200	< 0.0916	< 0.0712	8.71	1.5(NDR)	1.02	< 0.0664	1.21	1.67
PCB-198 + 199	6.85	3.97(NDR)	62.4	3.46	8.75	1.37(NDR)	10.8	4.67(NDR)
PCB-201	0.872	0.776(NDR)	7.21	< 0.0929	0.914(NDR)	0.115(NDR)	1.102	< 0.0949
PCB-202	2.57(NDR)	< 0.0879	12.2	< 0.115	2.15	0.26(NDR)	4.73	2.23(NDR)
PCB-203	2.88	3.86	44.6	1.39(NDR)	5.05	0.748	6.17	4.48
PCB-204	< 0.0988	< 0.0768	< 0.0642	0.386(NDR)	< 0.0493	< 0.0717	0	< 0.1
PCB-205	0.423(NDR)	0.281(NDR)	1.51(NDR)	< 0.0779	0.358	< 0.0693	0.493(NDR)	< 0.0712
PCB-206	2.555	3.145	12.535	0.74(NDR)	4.345	0.544	7.82	2.985(NDR)
PCB-207	0.758(NDR)	0.26(NDR)	1.98	0.509(NDR)	0.917	0.309(NDR)	0.962	0.355
PCB-208	1.13	0.924	4.0	0.412(NDR)	1.66	0.242(NDR)	2.829	1.89
PCB-209	2.582	2.822	3.852	0.972	4.302	0.66(NDR)	7.663	2.392
Total Monochloro Biphenyls	10.72	12.42	16.72	5.36	23.62	0.2	28.3	8.02
Total Dichloro Biphenyls	52.83	49.83	85.03	23.73	88.03	21.43	106	56.53
Total Trichloro Biphenyls	154.65	143.65	195.65	43.55	162.65	43.25	227.68	94.85
Total Tetrachloro Biphenyls	235.29	238.29	270.29	87.39	234.29	40.29	404.53	152.29
Total Pentachloro Biphenyls	249.04	234.04	350.04	70.34	227.04	25.44	390.3	150.04
Total Hexachloro Biphenyls	162.8	153.8	643.8	59.9	187.8	24.2	358.73	122.8

	SRKW19-1	SRKW19-1 (Duplicate)	SRKW19-2	SRKW19-3	SRKW19-4	SRKW19-5	SRKW19-6	SRKW19-7
Total Heptachloro Biphenyls	51.3	46.2	590	19.3	72.7	13.2	114	44.5
Total Octachloro Biphenyls	10.6	10.6	240	3.46	27.4	0.748	38.5	12.5
Total Nonachloro Biphenyls	3.75	4.13	18.6		6.99	0.609	11.8	2.25
Decachloro Biphenyl	2.582	2.822	3.852	0.972	4.302		8.0	2.392
TOTAL PCBs	932.5	895.5	2413.5	313.5	1033.5	169.5	1682.25	645.5

	SRKW19-8	SRKW19-9	SRKW19-10	SRKW19-11	SRKW19-12	SRKW19-13	SRKW19-14	SRKW19-15
PCB-1	3.74	4.17	5.14	5.27	3.09	8.93	16.3	22.33
PCB-2	22.686	17.286	21.486	16.686	4.39	20.3	19	23.886
PCB-3	2.26	2.69	3.66	5.55	2.44	6.14	11.3	7.41
PCB-4	6.42	5.96	6.57	9.1	7.95	8.43	21.3	32.1
PCB-5	< 0.405	0.401	0.339	0.565	0.361	0.314	0.602	0.678
PCB-6	3.74	4.3	4.55	6.4	< 0.0805	4.72	6.96	6.0
PCB-7	0.972	1.17	1.32	1.62	0.787	1.37	1.79	1.54
PCB-8	24	27.3	31.9	39.2	15.6	22.3	49.4	36.3
PCB-9	0.732	0.88	0.938	1.3	0.985	1.08	1.6	1.46
PCB-10	< 0.381	0.259	0.218	0.287	0.253	0.253	0.633	0.635
PCB-11	39.33	48.23	60.23	36.33	3.23	27.94	50.04	38.03
PCB-12 + 13	4.08	5.63	7.41	5.84	2.38(NDR)	5.4(NDR)	25.1(NDR)	13.8
PCB-14	< 0.365	0.438	0.503	0.313	< 0.0829	0.365	0.826(NDR)	0.884
PCB-15	28.9	26.1	33.4	40.7	10.9	33	57.4	55.3
PCB-16	6.22	6.86	7.78	13.3	8.329	7.329	12.449	11.4
PCB-17	8.833	7.903	9.133	16.423	7.307	7.737	13.157	10.323
PCB-18 + 30	18.678	12.778	14.578	33.678	13.425	11.925	39.925(NDR)	19.278
PCB-19	1.27	1.9	2.3	3.28	2.74	2.11	4.67	4.6
PCB-20 + 28	69.919	77.619	105.019	116.019	29.06	74.36	108.86	146.019
PCB-21 + 33	27.079	29.179	36.179	60.679	14.645	26.645	40.445	54.579
PCB-22	19.524	21.424	28.424	33.524	9.453	19.653	26.653	36.924
PCB-23	< 1.04	< 0.0682	< 0.0735	< 1.28	< 0.0588	< 0.0858	< 0.122	0.105
PCB-24	< 0.355	0.061	0.052	< 0.344	0.004	0	0.029(NDR)	0.113
PCB-25	3.517	4.797	6.097	7.177	2.449	5.019	6.789	7.387
PCB-26 + 29	7.844	8.724	10.644	13.844	5.149	9.199	11.819	14.544
PCB-27	1.64	1.45	1.69	3.46(NDR)	0.864	1.26	5.7	2.8
PCB-31	42.14	45.74	58.44	87.84	24.073	47.673	67.973	80.54
PCB-32	8.69	8.05	10.5	15.6	5.336	7.206	16.086	14
PCB-34	< 1.03	0.293	0.4	< 1.26	0.145	0.292	0.462	0.499
PCB-35	3.118	3.318	4.838	2.698	0.629	3.045	5.695	7.568
PCB-36	1.42	1.61	2.06	< 1.29	0.227	1.23	1.37	1.96
PCB-37	22.839	20.339	27.839	33.539	7.531	29.271	56.571	51.439
PCB-38	< 0.987	0.507	0.617	< 1.21	0.135	0.424	0.777	0.891

	SRKW19-8	SRKW19-9	SRKW19-10	SRKW19-11	SRKW19-12	SRKW19-13	SRKW19-14	SRKW19-15
PCB-39	< 1.03	0.553	0.797	< 1.26	0.227	0.533	1.05	1.29
PCB-40 + 41 + 71	18.11	20.11	25.91	29.71	11.015	22.415	50.815	53.91
PCB-42	8.059	11.019	14.119	14.819	5.458	11.698	24.498	26.019
PCB-43	< 0.0779	1.07	1.44	< 0.11	0.847	1.19	1.88	2.47
PCB-44 + 47 + 65	28.638	34.738	45.138	48.038	18.111	38.611	77.311	85.138
PCB-45 + 51	3.426	3.506	4.216	7.436(NDR)	3.702	4.272	10.792	9.686
PCB-46	1.208(NDR)	1.188	1.498	2.238	1.26	1.51	3.56	3.518
PCB-48	5.884	5.584	7.324	10.374	4.171	6.611	11.261	10.974
PCB-49 + 69	19.445	21.745	28.345	28.245	11.77	25.37	53.47	51.545
PCB-50 + 53	3.19(NDR)	2.9	3.32	5.71(NDR)	2.55	3.48	8.89	9.34
PCB-52	29.3	32.4	41.6	48.7	17.996	39.396	73.996	82.1
PCB-54	< 0.0526	0.074	0.099	0.363(NDR)	0.093	< 0.0858	0.136	0.156
PCB-55	1.95	1.21	1.73	2.58	0.261	1.1	1.96	2.7
PCB-56	25.696	33.096	46.096	36.696	6.244	31.364	57.564	82.296
PCB-57	< 0.564	0.318	0.352	< 1.34	0.109	0.271(NDR)	0.434	0.665
PCB-58	< 0.572	0.244	0.321	< 1.36	0.077	0.227	0.474	0.419
PCB-59 + 62 + 75	2.533	3.143	4.043	4.103(NDR)	1.808	3.758	7.088	8.033
PCB-60	18.023	23.823	32.223	25.823	3.068	18.228	33.528	52.723
PCB-61 + 70 + 74 + 76	77.4	101.4	145.4	119.4	27.081	109.381	184.381	248.4
PCB-63	1.5	2.27	3.07	2.37	0.755	2.55	4.53	5.55
PCB-64	14.025	16.125	20.625	23.725	7.993	17.443	28.043	35.225
PCB-66	59.486	71.086	99.786	86.186	14.855	70.155	131.755	198.786
PCB-67	0.872	1.66	2.23	1.57	0.59	1.93	3.11	3.79
PCB-68	< 0.544	0.64	0.767	< 1.29	0.163	0.54	1.217	1.33
PCB-72	< 0.551	0.675	0.839	< 1.31	0.236	0.629	1.37	1.55
PCB-73	0.321	0.136	0.147	1.23(NDR)	< 0.0588	< 0.0858	< 0.122	0.28
PCB-77	9.63	9.66	13.22	11.42	2.21	11.3	26.5	27.52
PCB-78	< 0.641	< 0.14	< 0.131	< 1.53	< 0.0588	< 0.115	0.243(NDR)	0.238(NDR)
PCB-79	< 0.482	0.939	1.3	< 1.15	0.236	1.05	2.52	2.81
PCB-80	< 0.56	< 0.119	< 0.112	< 1.33	< 0.0588	< 0.0969	< 0.122	0.156
PCB-81	0.378	0.368	0.477	0.413	0.079	0.372	1.05	0.935
PCB-82	7.334	7.814	11.194	10.594	1.51	5.17	47.9	24.294
PCB-83 + 99	32.778	40.678	59.078	43.278	9.625	45.225	92.125	113.778
PCB-84	8.507	9.867	15.017	13.317	3.55	12.8	26.6	32.617
PCB-85 + 116 + 117	12.5	14.2	20.2	12.2	2.938	14.908	30.408	42.6
PCB-86 + 87 + 97 + 109 + 119 + 125	31.3	37.1	54.6	43.7	9.548	41.998	79.498	106
PCB-88 + 91	5.02	6.48	9.34	8.46	2.28	7.4	16.5	19.5
PCB-89	0.441	0.615	0.943	< 0.473	0.178	0.783	2.18	2
PCB-90 + 101 + 113	43.132	48.732	71.032	52.232	14.126	59.026	109.626	131.732
PCB-92	7.54	8.5	12.7	8.2	2.696	10.716	20.616	25.2
PCB-93 + 95 + 98 + 100 + 102	31.366	28.166	40.566	49.566	10.593	39.793	83.793	91.466
PCB-94	0.536(NDR)	0.226	0.278	< 0.47	0.105	0.305	0.707	0.708
PCB-96	0.334(NDR)	0.236	0.295	0.245(NDR)	0.139	0.306	0.619	0.704
PCB-103	0.359	0.41	0.626(NDR)	0.459	0.181	0.569	1.47	1.27

	SRKW19-8	SRKW19-9	SRKW19-10	SRKW19-11	SRKW19-12	SRKW19-13	SRKW19-14	SRKW19-15
PCB-104	< 0.0526	< 0.0598	< 0.0691	< 0.067	< 0.0588	< 0.0858	< 0.122	< 0.0522
PCB-105	32.693	32.393	46.693	38.693	7.89	39.83	79.93	92.493
PCB-106	< 0.423	< 0.181	< 0.27	< 0.976	< 0.0588	< 0.0858	< 0.149	< 0.193
PCB-107	4.578	6.298	9.908	5.948	1.46	6.97	13.6	18.928
PCB-108 + 124	2.64	3.21	4.14	2.88	0.655	3.02	5.48	7.68
PCB-110 + 115	58.467	61.967	92.467	77.467	16.762	71.162	124.562	176.667
PCB-111	< 0.0526	0.082	0.132	0.328	< 0.0588	0.093(NDR)	0.218	0.223
PCB-112	< 0.0526	< 0.0707	< 0.0691	< 0.344	< 0.0588	< 0.0858	< 0.122	< 0.0522
PCB-114	1.37	1.17	1.85	1.88	0.415	1.88	3.29	3.32
PCB-118	71.36	66.16	98.76	92.26	18.252	87.252	164.652	188.76
PCB-120	0.218	0.351	0.513	0.299	0.086(NDR)	0.401	1.03	0.934
PCB-121	< 0.0526	< 0.072	0.083	< 0.341	< 0.0588	< 0.0858	0.133	0.15(NDR)
PCB-122	< 0.508	1.07	1.56	< 1.17	0.223	1.07	2.14	2.99
PCB-123	1.65	1.39	2.02	1.85	0.33	1.53	3.05	3.75
PCB-126	0.614	0.548	0.694	0.685	0.13	0.572	1.23	1.37
PCB-127	< 0.47	< 0.193	< 0.288	< 1.09	< 0.0588	< 0.0858	< 0.164	< 0.206
PCB-128 + 166	21.7	17	24.3	20.5	3.057	15.827	31.927	46.5
PCB-129 + 138 + 160 + 163	87.219	87.419	131.719	104.719	16.788	89.588	195.688	252.719
PCB-130	5.32(NDR)	4.76	7.86	< 0.62	1.27	6.38	13.2	14.2
PCB-131	0.835(NDR)	0.51	0.975	1.27	0.159	0.665	1.37	1.5
PCB-132	23.043	21.543	30.443	30.743	5.13	24.17	47.67	62.143
PCB-133	1.32	1.34	2.01	2.15(NDR)	0.342	1.48	3.03	3.68
PCB-134 + 143	2.44(NDR)	2.94	4.14	4.28	0.777	3.48	7.34	8.21
PCB-135 + 151 + 154	17.2	16.1	23.8	23.5	4.519	20.859	51.659	48.4
PCB-136	4.188	4.728	6.958	6.718	1.58	6.71	14.9	14.838
PCB-137	3.68	2.63	3.84	4.12(NDR)	0.833	2.89	4.9	6.2
PCB-139 + 140	1.14	0.956	1.42	1.72(NDR)	0.312	1.28	2.7	2.55
PCB-141	8.47	5.8	9.64	9.45	2.101	7.151	12.511	13.9
PCB-142	< 0.0971	< 0.16	< 0.23	< 0.593	< 0.0588	< 0.128	< 0.152	< 0.331
PCB-144	1.31(NDR)	1.48	2.45	2.04	0.552	2.23	4.71	4.03
PCB-145	0.232(NDR)	< 0.0543	< 0.0691	0.129(NDR)	< 0.0588	< 0.0858	< 0.122	0.071(NDR)
PCB-146	14.5	12.5	17.3	16.4	2.521	11.331	29.331	32.8
PCB-147 + 149	47.247	43.447	65.847	55.747	9.231	47.151	118.851	134.447
PCB-148	0.775(NDR)	0.432(NDR)	0.538(NDR)	0.557(NDR)	0.185(NDR)	0.431	< 0.137	0.479
PCB-150	0.394(NDR)	0.091(NDR)	0.134(NDR)	< 0.071	< 0.0588	0.168(NDR)	0.51	0.301
PCB-152	0.124(NDR)	< 0.0543	< 0.0691	0.074(NDR)	< 0.0588	< 0.0858	< 0.122	0.11
PCB-153 + 168	67.159	68.959	102.759	79.259	16.005	81.305	167.605	197.759
PCB-155	< 0.059	0.08	0.119(NDR)	0.314(NDR)	< 0.0588	0.125(NDR)	0.134	0.117
PCB-156 + 157	7.643	7.903	12.333	10.533	2.203	10.003	17.303	19.633
PCB-158	4.24	4.85	7.63	8.43	1.49	5.96	9.95	11.1
PCB-159	< 0.0688	0.549	0.938	< 0.42	< 0.0588	< 0.0957	< 0.122	1.2
PCB-161	< 0.0656	< 0.111	< 0.159	< 0.401	< 0.0588	< 0.0878	< 0.122	< 0.23
PCB-162	< 0.0633	0.35	0.507	0.461(NDR)	0.083(NDR)	1.3	0.533(NDR)	0.916
PCB-164	5.14(NDR)	4.14	6.96	5.98	1.11	5.43	10.7	12.4

	SRKW19-8	SRKW19-9	SRKW19-10	SRKW19-11	SRKW19-12	SRKW19-13	SRKW19-14	SRKW19-15
PCB-165	< 0.0766	< 0.127	< 0.182	< 0.468	< 0.0588	0.11	0.597(NDR)	0.429
PCB-167	3.15	3.15	5.21	4.1	0.812	3.93	7.39	8.67
PCB-169	< 0.23	< 0.14	< 0.149	< 0.17	< 0.0588	< 0.159	< 0.406	< 0.34
PCB-170	13.6	11.8	18.9	13.2	3.217	12.807	26.707	21.2
PCB-171 + 173	3.85(NDR)	4.19	7.15	5.89	1.13	5.48	12.6	9.44
PCB-172	2.84(NDR)	2.08	3.12	3.58(NDR)	0.602	2.26	4.7	3.27
PCB-174	12.7	10.6	17.5	15.1	3.658	16.448	38.048	25.7
PCB-175	0.611(NDR)	0.524	0.927	0.68(NDR)	0.173(NDR)	0.782	1.89	1.16
PCB-176	2.58(NDR)	1.78	2.61	2.8(NDR)	0.504	2.76	6.98	4.79
PCB-177	7.47	9.02	13.7	8.37	2.67	16.1	37.1	25.4
PCB-178	4.59(NDR)	4.74	7.16	5.4	1.12	6.6	16.4	14
PCB-179	6.79	7.13	10.2	7.99	1.82	9.87	25.5	20.4
PCB-180 + 193	31.1	25.2	41.3	42.9	7.452	26.352	59.752	49.9
PCB-181	0.242(NDR)	0.183	0.239(NDR)	0.508(NDR)	< 0.0588	0.191	0.459	0.379
PCB-182	0.658(NDR)	0.135	0.153	0.458(NDR)	< 0.0588	0.135	0.386	0.268
PCB-183 + 185	1.71(NDR)	7.25	11.9	11.2	2.527	10.337	26.137	17
PCB-184	0.097	0.129	0.113(NDR)	0.546(NDR)	< 0.0588	0.214	0.214	0.149
PCB-186	< 0.0813	< 0.0543	< 0.0691	< 0.0891	< 0.0588	< 0.0858	< 0.122	< 0.0522
PCB-187	40.1	27.4	39.6	38.9	6.608	38.668	98.368	72.9
PCB-188	0.09(NDR)	0.103(NDR)	0.137	< 0.0833	< 0.0588	0.109	0.328	0.251
PCB-189	0.558	0.459	0.688	0.727	0.176	0.642	1.46	0.775
PCB-190	5.21(NDR)	3.1	5.03	3.92	0.763	4.28	9.17	7.65
PCB-191	0.905	0.322	0.628	0.656(NDR)	0.123(NDR)	0.506	1.04	0.649
PCB-192	0.154(NDR)	< 0.0543	< 0.0691	< 0.0961	< 0.0588	< 0.0858	< 0.122	0.083
PCB-194	8.07	7.45	11.5	10.6	1.7	5.41	15.4	10.5
PCB-195	2.82	4.71	7.77	8.2	0.834	4.44	11.3	11.6
PCB-196	< 0.119	3.51	6.31	5.33(NDR)	1.07	3.52	10.1	7.2
PCB-197 + 200	< 0.086	1.48	2.41	3.43	0.283	1.2	7.07(NDR)	3.84
PCB-198 + 199	16.4(NDR)	13.3	22.4	17.7	3.42	15.3	44.2	36.7
PCB-201	1.12(NDR)	1.53	2.54	2.2(NDR)	0.373	1.72	5.08	3.62
PCB-202	2.19(NDR)	4.1	6.4	5.16(NDR)	0.737	3.61	10.7	12
PCB-203	6.74(NDR)	7.51	12.3	11.6	1.84	8.04	23.8	20.5
PCB-204	< 0.0928	< 0.0543	< 0.0691	0.153(NDR)	< 0.0588	< 0.0858	< 0.122	< 0.0522
PCB-205	< 0.0722	0.45	0.739	0.425(NDR)	0.111	0.545	1.35	1.11
PCB-206	7.905	7.515	11.335	8.645	2.32	7.62	21.7	17.735
PCB-207	0.569	0.95	1.54	1.24	0.296	0.974	2.93	2.39
PCB-208	3.84	2.8	4.38	3.35(NDR)	0.856	2.76	7.4	7.95
PCB-209	5.792	6.922	11.622	6.632	2.693	8.713	18.763	18.522
Total Monochloro Biphenyls	28.72	24.12	30.32	27.52	9.92	35.4	46.6	53.62
Total Dichloro Biphenyls	108.13	121.13	147.13	142.13	44.7	104	194	187.13
Total Trichloro Biphenyls	242.65	252.65	327.65	437.65	132.07	255.07	380.07	466.65
Total Tetrachloro Biphenyls	324.29	401.29	546.29	492.29	142.75	424.75	802.75	1007.29
Total Pentachloro Biphenyls	355.04	379.04	555.04	465.04	104.39	453.39	912.39	1089.04
Total Hexachloro Biphenyls	311.8	312.8	468.8	383.8	70.98	349.78	753.78	898.8

	SRKW19-8	SRKW19-9	SRKW19-10	SRKW19-11	SRKW19-12	SRKW19-13	SRKW19-14	SRKW19-15
Total Heptachloro Biphenyls	113	116	181	154	32.748	154.948	367.948	275
Total Octachloro Biphenyls	10.9	44	72.4	51.5	10.4	43.8	122	107
Total Nonachloro Biphenyls	12.4	11.3	17.3	9.95	3.47	11.4	32	28.1
Decachloro Biphenyl	5.792	6.922	11.622	6.632	2.693	8.713	18.763	18.522
TOTAL PCBs	1513.5	1673.5	2353.5	2173.5	554.8	1837.8	3627.8	4133.5

	SRKW19-16	SRKW19-17	SRKW19-17 (Duplicate)	SRKW19-18	SRKW19-19	PG19-I5 (AXYS)	SH19-I5	PG19-F1 (AXYS)
PCB-1	12.1	3.01	3.68	4.97	17.2	6.76	3.87	2.82
PCB-2	28.4	10.7	18.7	20.8	19.8	28.8	14.2	7.25
PCB-3	9.92	1.73	6.62(NDR)	2.83	7.18	4.67	2.62	5.27(NDR)
PCB-4	12.1	3.12	3.65	5.88	23.2	7.35	6.16	3.65
PCB-5	0.554	0.114	0.118	0.188	0.428	0.282	0.237	0.139
PCB-6	6.66	1.28	0.976	4.46	5.63	3.31	3.16	1.73
PCB-7	1.83	0.348	0.414	0.732	1.53	1.03	0.812	0.446
PCB-8	35.9	6.89	9.47	20.7	33.8	26.5	16.8	10.3
PCB-9	1.44	0.31	0.153	0.555	1.31	0.765	0.688	0.419
PCB-10	0.394	0.079	< 0.0613	0.144	0.581	0.179	0.175	0.115
PCB-11	35.04	25.54	16.94	56.94	40.94	58.44	19.34	14.64
PCB-12 + 13	8.7(NDR)	6.49(NDR)	2.07(NDR)	9.71	7.85(NDR)	7.71(NDR)	3.05(NDR)	7.38(NDR)
PCB-14	0.671	0.392(NDR)	0.122(NDR)	0.395(NDR)	0.615(NDR)	0.531(NDR)	0.26	0.239(NDR)
PCB-15	53.8	7.66	8.46	16.3	48.5	22.3	14.4	6.72
PCB-16	9.779	2.329	2.669	4.779	11.849	5.189	4.939	3.699
PCB-17	11.257	3.357(NDR)	1.657	4.477	11.557	7.887	5.497	5.417(NDR)
PCB-18 + 30	17.525	8.375	2.155	17.825	19.825	17.825	9.185	15.425
PCB-19	3.01	0.571	0.698	1.02(NDR)	2.95	1.32	1.29	1.23
PCB-20 + 28	107.86	17.16	21.56	39.76	109.86	49.36	36.36	17.86
PCB-21 + 33	37.645	6.545	6.425	15.045	39.345	19.045	14.145	7.575
PCB-22	27.953	4.563	6.053	10.953	28.853	13.753	10.553	4.573
PCB-23	< 0.0869	< 0.0606	< 0.0613	< 0.0769	0.098	< 0.0805	< 0.0688	< 0.0591
PCB-24	0.004	< 0.0606	< 0.0613	0	0.066	0	0	0
PCB-25	6.739	1.239	0.839	2.709	6.509	3.649	2.509	1.909
PCB-26 + 29	12.319	2.359	1.019	4.999	12.519	6.639	4.869	3.299
PCB-27	2.18	1.16(NDR)	0.351	1.73	2.13	2.27	0.838	1.61(NDR)
PCB-31	68.373	12.173	7.553	26.873	66.273	33.873	24.773	14.373
PCB-32	12.486	1.786	2.116	3.826	11.086	4.776	4.006	2.816
PCB-34	0.474	0.077	0.068	0.186	0.413	0.216	0.168	0.089
PCB-35	5.265	0.955	1.075	1.805	4.625	2.245	1.345	0.59
PCB-36	1.59	0.593	0.439	1.13	1.93	1.27	0.77	0.229
PCB-37	51.871	6.561	7.061	14.571	45.571	18.671	12.471	5.861
PCB-38	0.677	0.199	0.219	0.268	0.58(NDR)	0.478	0.286	0.161

	SRKW19-16	SRKW19-17	SRKW19-17 (Duplicate)	SRKW19-18	SRKW19-19	PG19-I5 (AXYS)	SH19-I5	PG19-F1 (AXYS)
PCB-39	0.948	0.179	0.157	0.347	0.945	0.388	0.29	0.167
PCB-40 + 41 + 71	38.815	7.325	7.235	12.715	45.315	16.215	12.215	10.415
PCB-42	20.398	3.698	3.958	6.498	21.498	8.768	6.208	5.328
PCB-43	1.81	0.423	0.224	0.658	2.41	0.994	0.783	0.759
PCB-44 + 47 + 65	64.511	12.611	8.971	22.111	72.911	28.711	20.411	18.311
PCB-45 + 51	7.462	1.032	1.132	1.822	8.432	2.702	2.402	3.142
PCB-46	2.46	0.493	0.536	0.787	3.02	1.05	0.864	1.09
PCB-48	9.721	2.061	0.836	3.881	11.561	5.171	4.041	3.471
PCB-49 + 69	42.87	8.37	3.9	14.87	45.37	19.37	14.17	12.07
PCB-50 + 53	6.14	1.24	0.738	1.96	7.28	2.61	2.08	2.45
PCB-52	58.896	14.196	5.936	24.696	75.996	30.196	20.796	20.296
PCB-54	0.13	< 0.0606	0.076	0.081	0.143	< 0.0805	< 0.0688	0.068
PCB-55	2.07	0.281	0.349	0.599	2.27	0.83	0.653	0.316
PCB-56	54.664	9.644	10.464	17.964	56.664	22.964	15.864	9.314
PCB-57	0.425(NDR)	0.108	< 0.0613	0.138	0.481	0.222	0.184	0.092
PCB-58	0.417	0.081	< 0.0613	0.13	0.348	0.198	0.141	0.076(NDR)
PCB-59 + 62 + 75	6.078	1.448	1.618(NDR)	1.998	6.958	2.858	1.588	1.738
PCB-60	32.428	5.608	6.158	10.028	34.028	13.428	9.288	4.648
PCB-61 + 70 + 74 + 76	186.381	32.481	17.681	59.381	194.381	75.181	55.081	29.481
PCB-63	4.32	0.87	0.37	1.45	4.71	2.01	1.4	0.877
PCB-64	27.743	5.493	6.103	9.943	31.643	12.843	9.353	8.143
PCB-66	126.755	20.955	21.855	39.755	129.755	50.455	33.355	19.855
PCB-67	3.1	0.611	0.27	1.05	3.34	1.41	1.02	0.599
PCB-68	1.027	0.204	0.033	0.383	1.017	0.518	0.281	0.226
PCB-72	1.2	0.281	0.121	0.429	1.21	0.569	0.362	0.27
PCB-73	< 0.0869	< 0.0606	< 0.0613	< 0.0769	< 0.0944	< 0.0805	< 0.0688	< 0.0591
PCB-77	23.6	3.31	3.48	6.94	20	8.14	5.07	2.71
PCB-78	< 0.118	< 0.0676	< 0.0613	< 0.0769	< 0.0977	< 0.109	< 0.0688	< 0.0591
PCB-79	2.08	0.387	0.232	0.678(NDR)	1.95	0.746	0.474	0.312
PCB-80	< 0.0997	< 0.0641	< 0.0613	< 0.0769	0.112	< 0.103	< 0.0688	< 0.0591
PCB-81	0.761	0.107	0.283	0.265	0.704	0.253	0.182	0.075
PCB-82	12.8	6.74	10.3	16.5	11.3	12.6(NDR)	2.05	6.36(NDR)
PCB-83 + 99	78.625	13.525	9.925	26.525	77.825	28.825	18.425	12.125
PCB-84	20.3	3.99	7.02	7.24	24.9	8.15	5.23	5.49
PCB-85 + 116 + 117	26.508	4.108	7.138	8.718	27.208	8.968	5.788	3.518
PCB-86 + 87 + 97 + 109 + 119 + 125	68.698	12.398	14.198	26.198	73.298	26.298	16.298	12.598
PCB-88 + 91	12.9	2.3	3.87	4.12	15	4.68	3.38	3.53(NDR)
PCB-89	1.5	0.238	0.392	0.37	1.46	0.486	0.324	0.381
PCB-90 + 101 + 113	93.626	18.826	13.326	37.126	106.626	40.526	24.226	21.126
PCB-92	17.316	3.446	2.326	6.586	19.716	7.356	4.406	4.196
PCB-93 + 95 + 98 + 100 + 102	66.793	11.893	11.993	22.093	74.393	25.893	15.493	17.293
PCB-94	0.576	0.109(NDR)	0.077(NDR)	0.152	0.559	0.217	0.135	0.133(NDR)
PCB-96	0.467	0.09(NDR)	0.158	0.172	0.527	0.212(NDR)	0.133	0.2

	SRKW19-16	SRKW19-17	SRKW19-17 (Duplicate)	SRKW19-18	SRKW19-19	PG19-I5 (AXYS)	SH19-I5	PG19-F1 (AXYS)
PCB-103	1.22	0.209	0.157	0.324	1	0.433	0.271	0.382
PCB-104	< 0.0869	< 0.0606	0.115	< 0.0769	< 0.0944	< 0.0805	< 0.0688	< 0.0591
PCB-105	73.63	11.33	12.03	24.73	71.53	25.13	15.53	8.67
PCB-106	< 0.151	< 0.0606	< 0.0613	< 0.0779	< 0.119	< 0.0805	< 0.0688	< 0.0591
PCB-107	12.8	2.1	1.45	4.4	10.8	4.23	2.58	1.57
PCB-108 + 124	5.06	0.856	0.647	1.92	4.55	1.76	1.11	0.792
PCB-110 + 115	115.562	20.162	35.962	44.262	121.562	42.862	26.262	22.862
PCB-111	0.187(NDR)	< 0.0606	< 0.0613	< 0.0769	0.183(NDR)	< 0.0805	< 0.0688	< 0.0591
PCB-112	< 0.0869	< 0.0606	< 0.0613	< 0.0769	< 0.0944	< 0.0805	< 0.0688	< 0.0591
PCB-114	3.11	0.565	0.719	1.25	3.22	1.25	0.767	0.499
PCB-118	154.652	24.352	26.452	54.452	151.652	54.352	32.852	19.952
PCB-120	0.854	0.186(NDR)	0.107	0.314(NDR)	0.796	0.387(NDR)	0.215(NDR)	< 0.0591
PCB-121	0.108	< 0.0606	< 0.0613	< 0.0769	0.095(NDR)	< 0.0805	< 0.0688	< 0.0591
PCB-122	1.91	0.314	0.363	0.704	1.74	0.659	0.451	0.269
PCB-123	2.74	0.451	0.652	0.974	2.88	1.1	0.722	0.306
PCB-126	1.29	0.212	0.373	0.399	1.02	0.394	0.24	0.144
PCB-127	< 0.166	< 0.0606	< 0.0613	< 0.0854	< 0.116	< 0.0805	< 0.0688	< 0.0591
PCB-128 + 166	27.427	4.097	6.687	9.537	27.227	9.127	5.167	3.527
PCB-129 + 138 + 160 + 163	166.688	25.788	31.788	54.388	163.688	68.088	26.288	38.588(NDR)
PCB-130	11.4	1.76	1.28	3.9	10.1	3.93	2.16	1.72
PCB-131	1.05	0.226(NDR)	0.175	0.465	1.39	0.454	0.282	0.218
PCB-132	39.37	6.46	10.47	12.67	45.27	14.77	7.8	9.12
PCB-133	2.56	0.467	0.272	0.797	2.82	1.14	0.587	0.636
PCB-134 + 143	5.81	0.948	0.976(NDR)	1.89	5.96	1.9	1.24	1.23
PCB-135 + 151 + 154	39.759	6.529	4.029	11.159	43.159	15.759	7.719	11.659
PCB-136	11.2	2.08	1.83(NDR)	2.68	13.3	4.05(NDR)	2.36	4.42(NDR)
PCB-137	4.2	1	0.476	2.48	3.88	1.7	0.959	0.873
PCB-139 + 140	2.04	0.422	0.281	0.817	2.24	0.842	0.508	0.465
PCB-141	12.111	2.531	1.661	5.541	13.311	5.411	2.941	4.671
PCB-142	< 0.156	< 0.0606	< 0.0613	< 0.0804	< 0.231	< 0.11	< 0.0688	< 0.0591
PCB-144	4.22	0.74	0.422	1.54	4.3	1.59	0.863	1.04
PCB-145	< 0.0869	< 0.0606	< 0.0613	< 0.0769	< 0.0944	< 0.0805	< 0.0688	< 0.108
PCB-146	22.231	6.091	2.531	9.601(NDR)	22.231	7.711	4.391	6.191(NDR)
PCB-147 + 149	94.751	15.551	6.081	27.151	105.851	32.351	15.651	16.951
PCB-148	0.812	0.598(NDR)	0.521(NDR)	1.5(NDR)	1.06(NDR)	0.543(NDR)	0.372	< 0.144
PCB-150	0.317	0.062	< 0.0613	0.085	0.271	0.131	0.076	0.066
PCB-152	< 0.0869	< 0.0606	< 0.0613	< 0.0769	< 0.0944	< 0.0805	< 0.0688	< 0.0591
PCB-153 + 168	149.605	27.605(NDR)	14.305	42.605	147.605	58.905	29.005	34.805
PCB-155	0.125	< 0.0606	0.215	< 0.0769	0.12(NDR)	0.115	0.073(NDR)	< 0.0591
PCB-156 + 157	15.703	2.773	2.873	6.483	15.903	5.983	3.523	2.633
PCB-158	9	1.89	1.36	4.29	9.44	3.61	2.25	2.22
PCB-159	< 0.117	< 0.0606	< 0.0613	< 0.0769	< 0.15	< 0.0805	< 0.0688	< 0.0591
PCB-161	< 0.108	< 0.0606	< 0.0613	< 0.0769	< 0.158	< 0.0805	< 0.0688	< 0.0591

	SRKW19-16	SRKW19-17	SRKW19-17 (Duplicate)	SRKW19-18	SRKW19-19	PG19-I5 (AXYS)	SH19-I5	PG19-F1 (AXYS)
PCB-162	< 0.119	0.103(NDR)	0.082(NDR)	0.243(NDR)	2.12	0.24	0.157(NDR)	< 0.0591
PCB-164	9.55	1.32	1	2.97	8.86	3.2	1.66	1.77
PCB-165	0.369	< 0.0606	< 0.0613	0.095(NDR)	0.266(NDR)	< 0.0818	< 0.0688	< 0.0591
PCB-167	6.88	1.16	1.33	2.51	6.66	2.37	1.45	1.09
PCB-169	< 0.303	< 0.068	< 0.0613	< 0.086	< 0.262	< 0.104	< 0.0688	< 0.0591
PCB-170	22.107	5.157	5.937	10.207	21.607	10.107	6.407	7.407
PCB-171 + 173	9.98	1.62	3.52	3.82	8.39	3.81	2.36	2.5
PCB-172	3.94	0.83	0.898	1.97	3.45	1.56	1.18	1.36
PCB-174	30.848	3.948	5.608	9.288	22.648	9.788	5.668	14.048
PCB-175	1.54	0.242	0.26	0.553	1.07	0.476	0.379	0.408
PCB-176	5.28	0.61	0.767	1.31	4.27	1.57	0.889	1.29
PCB-177	29.5	3.77	8.26	8.39	25.6	9.82	5.83	5.47
PCB-178	12.5	1.59	1.71	3.23	10.8	4.16	2.44	2.34
PCB-179	18.4	2.32	2.81	4.46	17.4	6.15	3.67	5.07
PCB-180 + 193	51.352	11.352	13.352	20.652	47.652	21.452	13.552	19.452
PCB-181	0.327	< 0.0606	< 0.0613	0.106	0.264	< 0.0805	< 0.0688	0.065
PCB-182	0.243	< 0.0606	0.246(NDR)	0.138	0.199(NDR)	0.11(NDR)	0.071(NDR)	0.077(NDR)
PCB-183 + 185	20.737	3.097	3.587	7.757	15.637	6.787	4.917	5.787
PCB-184	0.213	< 0.0606	< 0.0613	0.077	0.215	0.165(NDR)	0.086(NDR)	0.062(NDR)
PCB-186	< 0.0869	< 0.0606	< 0.0613	< 0.0769	< 0.0944	< 0.0805	< 0.0688	< 0.0591
PCB-187	75.268	8.228	9.438	18.868	59.168	21.968	12.868	12.968
PCB-188	0.223	< 0.0606	0.222	< 0.0769	0.155	0.109	< 0.0688	< 0.0591
PCB-189	1.19	0.269	0.529	0.525	1.11	0.526	0.305	0.327
PCB-190	7.47	0.888	1.48	2.32	6.35	2.36	1.38	1.64
PCB-191	0.914	0.179	0.187	0.414	0.73	0.31	0.252	0.29
PCB-192	< 0.0869	< 0.0606	< 0.0613	< 0.0769	< 0.0944	< 0.0805	< 0.0688	< 0.0591
PCB-194	10.6	2.78	3.3	5.09	9.69	4.75	3.39	4.21
PCB-195	8.1	1.17	3.03	2.35	6.94	2.79	1.52	1.72
PCB-196	7.2	1.41	1.77	3.05	5.38	2.5	1.71	2.23
PCB-197 + 200	2.78	0.695(NDR)	< 0.191	1.52	1.99	1.11(NDR)	0.466	1.34(NDR)
PCB-198 + 199	30.7	4.27	4.92	8.56	22.5	9.31	5.35	6.13
PCB-201	3.52	0.582	0.654	1.06	2.54	1.1	0.681	0.792
PCB-202	7.14	1.04	1.3	1.89	6.33	2.5	1.29	1.32
PCB-203	15.7	2.02	2.33	4.31	12	4.65	2.55	3.24
PCB-204	< 0.0869	< 0.0606	< 0.0613	< 0.0769	< 0.0944	< 0.0805	< 0.0688	< 0.0591
PCB-205	1.03	0.164	0.406	0.311	0.92	0.347	0.182	0.238
PCB-206	14.7	2.71	2.96	4.59	12.2	5.44	3.13	3.1
PCB-207	2.52	0.35	0.419	1	2.02	1.43(NDR)	0.825	0.665(NDR)
PCB-208	5.66	0.94	1.21	1.56	4.48	2.02	1.11	0.99
PCB-209	17.463	3.153	3.653	4.893	14.763	6.663	3.643	1.953
Total Monochloro Biphenyls	50.4	15.4	22.4	28.6	44.2	40.2	20.7	10.1
Total Dichloro Biphenyls	153	50	44.8	120	161	125	66.7	42.8
Total Trichloro Biphenyls	378.07	65.17	61.97	151.07	376.07	189.07	134.07	79.47

	SRKW19-16	SRKW19-17	SRKW19-17 (Duplicate)	SRKW19-18	SRKW19-19	PG19-I5 (AXYS)	SH19-I5	PG19-F1 (AXYS)
Total Tetrachloro Biphenyls	725.75	133.75	100.75	240.75	783.75	308.75	218.75	156.75
Total Pentachloro Biphenyls	774.39	139.39	160.39	290.39	804.39	284.39	177.39	133.39
Total Hexachloro Biphenyls	637.78	81.48	87.48	193.78	655.78	239.78	117.78	94.58
Total Heptachloro Biphenyls	292.948	44.648	59.148	94.648	246.948	101.948	62.648	80.948
Total Octachloro Biphenyls	86.8	13.4	17.7	28.1	68.3	27.9	17.1	19.9
Total Nonachloro Biphenyls	22.9	4.0	4.59	7.15	18.7	7.46	5.07	4.09
Decachloro Biphenyl	17.463	3.153	3.653	4.893	14.763	6.663	3.643	1.953
TOTAL PCBs	3137.8	549.8	563.8	1157.8	3177.8	1327.8	823.8	623.8

	PTP2-PH	PTP2-GINP1	PTP2-EH2	PTP2-STH1	PTP2-SI1	SH19-A2	SH19-P6	SH19-R15
PCB-1	11.3	2.49	5.86	7.38	2.65			
PCB-2	95.6	14	11.3	1.43	1.21			
PCB-3	13.9	1.81	3.41	2.31	4.27(NDR)			
PCB-4	20.2	2.9	6.7	7.46	3.85	3.07	4.38	3.87
PCB-5	0.52	0.106	0.226	0.084	< 1.7	< 0.196	0.137	< 0.151
PCB-6	6.11	1.41	3.14	1.22	2.81	0.955	2.15	2.16
PCB-7	3.49	0.41	1.04	0.272	< 1.57	0.25(NDR)	0.512	0.463
PCB-8	67.5	6.91	23.8	6.19	9.76	4.69	11.2	10.4
PCB-9	1.27	0.29	0.67	0.275	< 1.48	0.234	0.423	0.347
PCB-10	0.651	0.089	0.186	0.22	< 1.48	< 0.182	0.137	< 0.14
PCB-11	18.44	7.94	15.84	2.7	0.21(NDR)	5.51	19.7	15.5
PCB-12 + 13	13.9	2.45	3.5(NDR)	1.68(NDR)	< 1.82	1.61(NDR)	2.62(NDR)	2.25(NDR)
PCB-14	2.81	0.316(NDR)	0.352(NDR)	0.153(NDR)	< 1.68	< 0.181	0.409(NDR)	0.193(NDR)
PCB-15	66.9	8.8	16	6.19	6.34	3.69	11	10.1
PCB-16	7.839	1.599	4.659	0.877	3.309	0.992	3.4	2.85
PCB-17	15.757	1.687	7.307	1.647	3.807(NDR)	2.018(NDR)	4.468	4.128
PCB-18 + 30	22.225	2.885	7.145	1.495	6.805	2.664	7.454	6.824
PCB-19	3.17	0.586(NDR)	1.98	1.15	1.22(NDR)	0.561(NDR)	1.11(NDR)	0.941
PCB-20 + 28	234.86	21.56	51.86	6.05	24.26	6.082	25.812	23.512
PCB-21 + 33	52.745	6.585	19.245	1.945	8.435	2.395	10.115	8.925
PCB-22	37.453	5.403	13.953	1.893	8.563	1.974	7.634	6.574
PCB-23	< 0.132	< 0.0599	< 0.0613	< 0.0632	< 0.581	< 0.0536	< 0.0745	< 0.076
PCB-24	0.007(NDR)	0.007(NDR)	0.007(NDR)	< 0.0632	< 0.194	< 0.0471	0.114	< 0.0481
PCB-25	9.909	1.479	3.239	0.999	2.119	0.789	2.23	1.94
PCB-26 + 29	13.419	2.579	5.659	1.619	4.629	1.4(NDR)	4.03	3.74
PCB-27	2.01	0.285	1.01	0.27	0.9(NDR)	0.351	0.106	0.711(NDR)
PCB-31	87.673	12.773	27.973	4.753	17.173	4.762	17.112	15.212
PCB-32	18.586	2.106	6.986	1.306	2.996	1.212	3.302	3.002
PCB-34	0.725	0.093	0.249	< 0.0632	< 0.559	< 0.0517	0.128	0.115(NDR)
PCB-35	5.525	1.015	2.105	0.233	< 0.694	0.239(NDR)	1.28	0.929(NDR)

	PTP2-PH	PTP2-GINP1	PTP2-EH2	PTP2-STH1	PTP2-SI1	SH19-A2	SH19-P6	SH19-R15
PCB-36	0.685	0.472	0.712	< 0.0632	< 0.593	0.111	0.493	0.505(NDR)
PCB-37	44.671	7.271	15.671	1.541	6.541	1.772	9.242	7.662
PCB-38	0.764	0.193	0.372	0.451	< 0.636	0.614	0.462	0.194(NDR)
PCB-39	2.02	0.232	0.618	0.084	< 0.62	< 0.0495	0.239	0.13(NDR)
PCB-40 + 41 + 71	63.215	6.035	21.815	2.245	7.965	2.832	8.632	7.732
PCB-42	40.698	3.618	10.698	1.358	4.838	1.499	4.469	3.609
PCB-43	3.4	0.358	1.02	0.194(NDR)	0.514	0.146(NDR)	0.542(NDR)	0.558(NDR)
PCB-44 + 47 + 65	130.111	11.611	37.011	4.561	13.311	4.84	16.49	13.29
PCB-45 + 51	11.792	1.072	3.362	0.663	2.162	0.665(NDR)	2.099(NDR)	1.589
PCB-46	4.18	0.378	1.62	0.181(NDR)	0.706	0.312(NDR)	0.694(NDR)	0.538(NDR)
PCB-48	21.861	2.001	7.031	0.861	2.731	0.917(NDR)	2.651	2.821
PCB-49 + 69	100.67	8.46	28.57	3.08	7.88	3.692	11.212	9.622
PCB-50 + 53	10.58	0.95	4.1	0.481	1.48	0.631(NDR)	1.605	1.435
PCB-52	139.196	11.396	42.996	4.396	12.596	5.494	15.604	13.804
PCB-54	0.455	< 0.0599	0.206(NDR)	< 0.0632	< 0.0578	0.051(NDR)	< 0.0491	< 0.0481
PCB-55	2.57	0.315	1.05	0.093(NDR)	< 0.0578	< 0.137	0.624(NDR)	0.42
PCB-56	82.064	8.634	25.564	2.074	8.064	2.2	10.9	9.32
PCB-57	0.53	0.086	0.178	< 0.0632	0.105	< 0.126	< 0.19	< 0.108
PCB-58	0.665	< 0.0599	0.276	< 0.0632	0.076	< 0.129	< 0.194	< 0.111
PCB-59 + 62 + 75	11.008	1.038	3.308	0.359	1.588	0.498(NDR)	1.366	1.236(NDR)
PCB-60	43.728	5.508	14.728	1.098	3.578	1.21	6.05	5.29
PCB-61 + 70 + 74 + 76	335.381	29.881	102.381	7.621	22.781	9.065	34.465	32.665
PCB-63	7.42	0.81	2.12	0.255	0.584	0.23(NDR)	0.891	0.818(NDR)
PCB-64	61.943	5.463	17.443	2.433	7.193	2.406	7.036	6.306
PCB-66	196.755	18.555	58.455	4.325	16.455	5.071	23.631	21.831
PCB-67	4.24	0.5	1.48	0.154	0.51	0.121(NDR)	0.701	0.559(NDR)
PCB-68	2.177	0.177	0.603	0.032	0.128	0.109(NDR)	< 0.181	0.159
PCB-72	2.23	0.228	1.02	0.071	0.172	< 0.118	0.24(NDR)	0.198(NDR)
PCB-73	< 0.0903	< 0.0599	< 0.0613	< 0.0632	< 0.0578	< 0.0471	< 0.0491	< 0.0481
PCB-77	28.2	3.28	8.16	0.59	1.5	0.566	3.79	2.97
PCB-78	< 0.182	< 0.0599	< 0.0919	< 0.0632	< 0.0578	< 0.128	< 0.192	< 0.109
PCB-79	4.38	0.48	1.76	0.106	0.137	< 0.108	0.26(NDR)	0.147
PCB-80	< 0.159	< 0.0599	< 0.0801	< 0.0632	< 0.0578	< 0.112	< 0.168	< 0.0957
PCB-81	0.906	0.12	0.352	< 0.0632	< 0.0578	< 0.105	0.136(NDR)	< 0.104
PCB-82	46.6	1.76	7.78	0.625	0.673(NDR)	0.843	2.8(NDR)	2.02
PCB-83 + 99	196.825	14.125	73.825	3.655	3.685	3.677	15.217	11.517
PCB-84	59.7	3.24	21.5	1.41	1.88	1.48	4.29	3.37
PCB-85 + 116 + 117	63.008	4.498	21.708	1.218	1.148	1.346	5.606	3.826
PCB-86 + 87 + 97 + 109 + 119 + 125	174.698	12.798	70.798	3.948	4.078	3.987	15.317	11.517
PCB-88 + 91	40.1	2.08	13.4	0.916	0.977	1.04	2.92	2.19
PCB-89	3.03	0.174(NDR)	0.945	0.101	0.15(NDR)	< 0.0532	0.278(NDR)	0.144(NDR)
PCB-90 + 101 + 113	253.626	17.726	106.626	5.056	5.506	5.83	21.23	16.23
PCB-92	44.916	3.326	19.816	1.026	< 0.0578	1.242	< 0.0491	2.712
PCB-93 + 95 + 98 + 100 + 102	151.593	9.283	67.193	3.973	4.423	4.484	13.954	9.654

	PTP2-PH	PTP2-GINP1	PTP2-EH2	PTP2-STH1	PTP2-SI1	SH19-A2	SH19-P6	SH19-R15
PCB-94	0.938	0.068(NDR)	0.429	< 0.0632	< 0.0578	< 0.056	0.133(NDR)	0.086(NDR)
PCB-96	1.04	0.079(NDR)	0.369	< 0.0632	< 0.0578	< 0.0471	0.133(NDR)	0.101(NDR)
PCB-103	2.42	0.187	1.23	< 0.0632	0.095(NDR)	0.081(NDR)	0.257(NDR)	0.148
PCB-104	< 0.0903	< 0.0599	< 0.0613	< 0.0632	< 0.0578	< 0.0471	< 0.0491	< 0.0481
PCB-105	135.73	11.93	55.53	2.42	2.68	2.68	12.02	9.49
PCB-106	< 0.219	< 0.0599	< 0.12	< 0.0632	< 0.0578	< 0.0604	< 0.0949	< 0.118
PCB-107	29.8	2.64	11.9	0.588	0.627	0.432	2.28	1.79
PCB-108 + 124	10.5	0.863	4.83	0.251(NDR)	0.297	0.221(NDR)	0.654(NDR)	0.789
PCB-110 + 115	294.562	20.962	136.562	6.682	8.402	6.473	24.073	18.073
PCB-111	0.222	< 0.0599	0.162(NDR)	< 0.0632	0.081(NDR)	< 0.0471	< 0.0491	< 0.0481
PCB-112	< 0.0903	< 0.0599	< 0.0613	< 0.0632	< 0.0578	< 0.0471	< 0.0491	< 0.0481
PCB-114	6.28	0.559	2.41	0.202	0.164	0.166(NDR)	0.654(NDR)	0.444
PCB-118	311.652	25.452	132.652	5.652	6.312	5.978	24.228	20.828
PCB-120	1.33	0.18	0.884	< 0.0632	< 0.0578	0.051	0.169(NDR)	0.156
PCB-121	0.133	< 0.0599	< 0.0613	< 0.0632	< 0.0578	< 0.0471	< 0.0491	< 0.0481
PCB-122	3.7	0.33	1.62	0.102	0.104	0.068(NDR)	0.186	0.222(NDR)
PCB-123	6.88	0.487	2.22	0.111(NDR)	0.153(NDR)	0.163	0.715	0.397(NDR)
PCB-126	1.91	0.25	0.582	< 0.0632	< 0.0578	< 0.0569	0.176(NDR)	0.115(NDR)
PCB-127	< 0.229	< 0.0599	< 0.126	< 0.0632	< 0.0578	< 0.0564	0.161(NDR)	< 0.11
PCB-128 + 166	78.427	4.637	30.727	0.858	0.902	1.18	4.94	3.03
PCB-129 + 138 + 160 + 163	454.688	27.888	176.688	5.678	4.638	6.993	31.323	18.723
PCB-130	28.3	1.82	11.8	0.405	0.378	0.553(NDR)	2.47	1.28
PCB-131	4.09	0.24	1.83	0.1	< 0.0578	< 0.0673	< 0.0634	0.098(NDR)
PCB-132	115.87	6.23	50.27	1.7	1.67	1.69(NDR)	6.4	4.41
PCB-133	6.03	0.441(NDR)	2.31	0.09(NDR)	0.111	< 0.0645	< 0.0608	0.384(NDR)
PCB-134 + 143	17.4	0.838	6.42	0.249	0.224	0.31(NDR)	0.798(NDR)	0.777(NDR)
PCB-135 + 151 + 154	90.459	6.479	42.659	1.439	1.429	1.898	6.708	3.868
PCB-136	28.5	1.56	13.2	0.511	< 0.0578	0.578	2.33	1.14(NDR)
PCB-137	15.4	0.951	6.63	0.308	0.239	0.384(NDR)	1.13	0.794
PCB-139 + 140	7.46	0.43	2.53	0.128	0.119	0.126	0.405(NDR)	0.214(NDR)
PCB-141	39.611	2.381	17.311	0.809	0.708	0.838	2.59	1.87
PCB-142	< 0.448	< 0.0599	< 0.171	< 0.0632	< 0.0578	< 0.0699	< 0.0659	< 0.0868
PCB-144	13.5	0.796	6.12	0.244	0.289(NDR)	0.348(NDR)	0.543(NDR)	0.566(NDR)
PCB-145	0.151(NDR)	< 0.0599	0.066	< 0.0632	< 0.0578	< 0.0471	< 0.0491	< 0.0481
PCB-146	57.731	4.341	22.431	0.567	0.814	1.27(NDR)	4.81	3.26
PCB-147 + 149	271.851	13.951	108.851	3.641	2.461	4.146	17.126	10.626
PCB-148	0.621	0.102(NDR)	0.178	< 0.0632	< 0.0578	< 0.0471	0.197(NDR)	0.073(NDR)
PCB-150	1.21	< 0.0599	0.322	< 0.0632	< 0.0578	< 0.0471	< 0.0491	< 0.0481
PCB-152	0.4	< 0.0599	0.109(NDR)	< 0.0632	< 0.0578	< 0.0471	< 0.0491	< 0.0481
PCB-153 + 168	366.605	24.505	140.605	4.565	4.025	5.416	26.446	17.546
PCB-155	0.123	< 0.0599	0.075(NDR)	< 0.0632	< 0.0578	0.049(NDR)	0.089(NDR)	< 0.0481
PCB-156 + 157	43.803	2.903	20.203	0.638	0.57(NDR)	0.88(NDR)	3.271	2.511(NDR)
PCB-158	32.7	1.94	15	0.58(NDR)	0.531	0.547(NDR)	2.168	1.358
PCB-159	< 0.323	< 0.0599	< 0.124	< 0.0632	< 0.0578	< 0.0481	< 0.0491	< 0.0598

	PTP2-PH	PTP2-GINP1	PTP2-EH2	PTP2-STH1	PTP2-SI1	SH19-A2	SH19-P6	SH19-R15
PCB-161	< 0.318	< 0.0599	< 0.122	< 0.0632	< 0.0578	< 0.0506	< 0.0491	< 0.0629
PCB-162	1.45	0.103	0.55	< 0.0632	< 0.0578	< 0.0483	0.189(NDR)	0.074(NDR)
PCB-164	24.2	1.43	10.5	0.461	0.44	0.445	1.69	0.989
PCB-165	< 0.37	< 0.0599	0.319	< 0.0632	< 0.0578	< 0.057	< 0.0537	< 0.0708
PCB-167	15.9	1.18	7.42	0.262	0.293	0.312	1.33	0.93
PCB-169	< 0.379	< 0.0599	< 0.176	< 0.0632	< 0.0578	< 0.0636	< 0.0512	< 0.0616
PCB-170	75.107	5.287	37.407	0.957	0.871	1.11(NDR)	4.85	4.56
PCB-171 + 173	28.9	1.91	15.4	0.416	0.323(NDR)	0.431	2.27	1.48
PCB-172	12.8	0.96	6.81	0.206(NDR)	0.167	0.217(NDR)	0.926	0.743
PCB-174	68.948	4.478	37.048	1.278	0.998	1.34	4.98	3.51
PCB-175	3.86	0.256	2.11	< 0.0632	0.064	< 0.0471	0.195(NDR)	0.279(NDR)
PCB-176	8.96	0.655	5.23	0.166	0.128(NDR)	0.222(NDR)	0.802(NDR)	0.577(NDR)
PCB-177	48.4	4.14	26.8	0.699	0.57	0.926(NDR)	5.02	3.31
PCB-178	19.1	1.61	9.87	0.329	0.226(NDR)	0.495	1.89(NDR)	1.26
PCB-179	30	2.39	16.3	0.531	0.398	0.599	2.91	2.02
PCB-180 + 193	167.752	11.552	75.252	2.512	2.172	3.136	11.536	10.236
PCB-181	0.76	< 0.0599	0.357	< 0.0632	< 0.0578	< 0.0471	< 0.0491	< 0.0481
PCB-182	0.851	0.063	0.386	< 0.0632	< 0.0578	< 0.0471	< 0.0491	0.073(NDR)
PCB-183 + 185	58.137	3.707	27.337	0.797	0.635	0.792	3.957	2.407
PCB-184	0.311	< 0.0599	0.129(NDR)	0.089(NDR)	< 0.0578	0.07(NDR)	0.13(NDR)	< 0.0481
PCB-186	< 0.0903	< 0.0599	< 0.0613	< 0.0632	< 0.0578	< 0.0471	< 0.0491	< 0.0481
PCB-187	135.868	10.368	59.868	1.788	1.418	1.71	9.67	7.33
PCB-188	2.81	< 0.0599	0.201	< 0.0632	< 0.0578	< 0.0471	< 0.0491	< 0.0481
PCB-189	3.04	0.273	1.58	< 0.0632	0.076(NDR)	< 0.0471	0.246(NDR)	0.27(NDR)
PCB-190	14.9	0.998	7.34	0.3(NDR)	0.217(NDR)	0.288	1.05	0.898
PCB-191	2.9	0.176	1.55	< 0.0632	< 0.0578	0.052(NDR)	0.296(NDR)	0.139(NDR)
PCB-192	< 0.0903	< 0.0599	< 0.0613	< 0.0632	< 0.0578	< 0.0471	< 0.0491	< 0.0481
PCB-194	44.8	3.12	20.4	0.692	0.528	0.703(NDR)	3.02	2.5
PCB-195	18.5	1.39	9.5	0.264	0.23	0.248(NDR)	1.44	1.13
PCB-196	19.9	1.41	9.0	0.321	0.145(NDR)	0.394	1.59	1.4(NDR)
PCB-197 + 200	4.84	0.387	2.41	< 0.0632	0.058(NDR)	0.117(NDR)	0.616	0.524
PCB-198 + 199	39	3.2	21.8	0.723	0.367(NDR)	0.949	4.97(NDR)	4.25
PCB-201	6.53	0.503	2.71	0.079	0.065(NDR)	0.129	0.616(NDR)	0.547(NDR)
PCB-202	13.1	1.09	5.95	0.201	0.138	0.187(NDR)	1.37	0.848
PCB-203	26.7	1.53	12.5	0.366	0.199	0.512	2.24	1.97
PCB-204	0.17(NDR)	< 0.0599	< 0.0613	< 0.0632	< 0.0578	< 0.0471	< 0.0491	< 0.0481
PCB-205	2.47	0.162	0.773	< 0.0632	< 0.0578	0.065(NDR)	0.201(NDR)	0.148(NDR)
PCB-206	57.2	2.37	15.6	0.393	0.23	0.508	2.92	2.28
PCB-207	7.21	0.343	2.07	< 0.0632	< 0.0612	0.083(NDR)	0.351	0.412(NDR)
PCB-208	22.3	0.903	6.03	0.141	< 0.0593	0.23	0.907	0.813(NDR)
PCB-209	97.063	2.673	16.463	0.293	0.188	0.5(NDR)	2.851	2.631
Total Monochloro Biphenyls	121	18.3	20.6	11.1	3.86			
Total Dichloro Biphenyls	206	33.5	72.3	29.3	22.8	18.1	49.6	42.8
Total Trichloro Biphenyls	560.07	68.17	171.07	26.17	84.27	23.94	97.94	85.64

	PTP2-PH	PTP2-GINP1	PTP2-EH2	PTP2-STH1	PTP2-SI1	SH19-A2	SH19-P6	SH19-R15
Total Tetrachloro Biphenyls	1305.75	121.75	397.75	37.05	117.75	39.55	150.05	134.05
Total Pentachloro Biphenyls	1838.39	133.39	755.39	38.49	41.09	40.883	143.483	115.483
Total Hexachloro Biphenyls	1718.78	104.78	694.78	22.78	19.08	22.4	115	69.3
Total Heptachloro Biphenyls	683.948	49.348	330.948	10.048	7.828	8.91	47.3	37.9
Total Octachloro Biphenyls	176	12.8	85	2.65	1.1	1.98	10.3	11.2
Total Nonachloro Biphenyls	86.7	3.62	23.7	0.534	0.23	0.738	4.18	2.28
Decachloro Biphenyl	97.063	2.673	16.463	0.293	0.188		2.851	2.631
TOTAL PCBs	6797.8	547.8	2567.8	178.8	297.8	156.39	621.39	502.39

	SH19-R30	PG19-A4 (AXYS)	PG19-G6 (AXYS)	PG19-G6 (AXYS) Duplicate	PG19-M4 (AXYS)
PCB-1					
PCB-2					
PCB-3					
PCB-4	4.67	5.35	3.32	3.63	8.83
PCB-5	0.217	0.323	0.191	< 0.249	0.332
PCB-6	2.94	3.86	2.32	2.3	5.1
PCB-7	0.704	0.971	0.559	0.721	1.16
PCB-8	17	20.2	10.4	10.7	26.2
PCB-9	0.691	0.794	0.482	0.549	1.2
PCB-10	< 0.183	< 0.201	< 0.143	< 0.231	0.387
PCB-11	29.6	31.7	18.2	20.7	32.4
PCB-12 + 13	3.36(NDR)	4.04(NDR)	3.23(NDR)	2.93(NDR)	4.46(NDR)
PCB-14	0.362(NDR)	0.359	0.335(NDR)	0.312(NDR)	0.468(NDR)
PCB-15	17.1	21.9	11.2	12.2	23.5
PCB-16	5.18	5.73	4.33	3.52	13.2
PCB-17	6.028	7.698	6.048	4.478	13.598
PCB-18 + 30	11.074	12.174	10.074	7.144	25.774
PCB-19	1.47(NDR)	1.5(NDR)	1.23(NDR)	0.974	3.89
PCB-20 + 28	41.312	53.112	31.912	27.812	73.012
PCB-21 + 33	16.315	21.415	13.315	11.615	31.215
PCB-22	11.884	15.284	9.314	8.504	22.884
PCB-23	< 0.069	< 0.0932	< 0.088	< 0.101	< 0.0923
PCB-24	0.169	0.141	0.137(NDR)	0.089(NDR)	0.526
PCB-25	3.04	4.23	2.88	2.38	5.51
PCB-26 + 29	5.79	7.56	5.72	4.23	10.3
PCB-27	1.33	1.44	0.746	0.591	2.33
PCB-31	26.812	34.012	20.612	18.312	47.512
PCB-32	4.522	5.742	4.132	3.152	10.432
PCB-34	0.212	0.219(NDR)	0.138(NDR)	0.121(NDR)	0.328

	SH19-R30	PG19-A4 (AXYS)	PG19-G6 (AXYS)	PG19-G6 (AXYS) Duplicate	PG19-M4 (AXYS)
PCB-35	1.61	2.05	1.04	0.999	2.38
PCB-36	1.01	0.953	0.56	0.578	0.933
PCB-37	13.612	20.012	10.612	10.112	22.912
PCB-38	0.317	0.426	0.386	0.428	0.272
PCB-39	0.3(NDR)	0.312	0.147	0.159(NDR)	0.531
PCB-40 + 41 + 71	13.062	17.162	13.262	9.462	24.662
PCB-42	6.649	9.499	6.169	4.709	11.929
PCB-43	0.814(NDR)	1.13(NDR)	0.858	0.475(NDR)	1.6(NDR)
PCB-44 + 47 + 65	22.49	31.29	23.39	15.59	41.29
PCB-45 + 51	2.599	3.309	3.319	1.919(NDR)	6.219
PCB-46	1.05	1.42	1.26(NDR)	0.636	2.09
PCB-48	4.001	5.601	4.391	3.401	8.731
PCB-49 + 69	15.412	21.412	15.512	11.112	27.212
PCB-50 + 53	2.395	2.685	2.765	1.735(NDR)	5.015
PCB-52	21.904	30.504	23.004	17.004	39.304
PCB-54	0.102(NDR)	0.065(NDR)	0.055(NDR)	0.066(NDR)	0.099(NDR)
PCB-55	0.75	< 0.168	< 0.167	< 0.214	< 0.273
PCB-56	16.4	22.2	12.7	11.1	26.9
PCB-57	< 0.136	0.175(NDR)	0.188(NDR)	< 0.198	0.276(NDR)
PCB-58	< 0.14	< 0.159	< 0.158	< 0.202	< 0.259
PCB-59 + 62 + 75	2.116	3.006	2.296	1.456(NDR)	4.066
PCB-60	9.84	12.9	6.05	5.97	15.6
PCB-61 + 70 + 74 + 76	55.765	78.065	46.165	39.065	90.065
PCB-63	1.35	1.89	1.24(NDR)	0.951	2.17
PCB-64	9.486	14.176	10.176	7.626	17.876
PCB-66	35.931	51.631	31.231	25.631	59.831
PCB-67	0.933	1.4	0.828	0.684(NDR)	1.72
PCB-68	0.258	0.375	0.228(NDR)	0.225(NDR)	0.381
PCB-72	0.374	0.443	0.282	0.214	0.455
PCB-73	< 0.0487	< 0.0525	< 0.0508	< 0.0504	< 0.0498
PCB-77	5.38	7.56	3.87	3.45	8.11
PCB-78	< 0.138	< 0.157	< 0.156	< 0.2	< 0.256
PCB-79	0.482(NDR)	0.547	0.23	0.242	0.528
PCB-80	< 0.121	< 0.138	< 0.137	< 0.175	< 0.224
PCB-81	0.177(NDR)	0.21(NDR)	< 0.136	< 0.17	0.323
PCB-82	3.81	5.46	3.19	2.68	5.82
PCB-83 + 99	21.717	31.617	17.217	16.517	30.717
PCB-84	5.72	9.55	6.24	5.55	10.1
PCB-85 + 116 + 117	7.306	10.806	5.516	5.296	10.606
PCB-86 + 87 + 97 + 109 + 119 + 125	20.317	31.217	17.317	16.917	31.317
PCB-88 + 91	3.88	5.61	3.53	2.92	5.79
PCB-89	0.342(NDR)	0.5	0.237(NDR)	0.283	0.681

	SH19-R30	PG19-A4 (AXYS)	PG19-G6 (AXYS)	PG19-G6 (AXYS) Duplicate	PG19-M4 (AXYS)
PCB-90 + 101 + 113	28.93	43.33	24.93	23.73	42.13
PCB-92	4.762	7.662	4.282	4.102	7.452
PCB-93 + 95 + 98 + 100 + 102	18.954	27.954	17.654	16.054	30.154
PCB-94	0.168	0.164	0.192(NDR)	0.146(NDR)	0.232(NDR)
PCB-96	0.154	0.251(NDR)	0.168(NDR)	0.144	0.239(NDR)
PCB-103	0.359(NDR)	0.455	0.307(NDR)	0.231(NDR)	0.486(NDR)
PCB-104	< 0.0487	< 0.0525	< 0.0508	< 0.0504	< 0.0498
PCB-105	17.42	27.52	12.52	13.32	25.92
PCB-106	< 0.138	< 0.214	< 0.16	< 0.0921	< 0.205
PCB-107	3.47	5.55	2.26(NDR)	2.39	4.66
PCB-108 + 124	1.53	2.03	0.933	1.16	1.9
PCB-110 + 115	32.373	50.573	28.573	26.173	49.373
PCB-111	< 0.0487	0.069	< 0.0508	< 0.0504	< 0.0498
PCB-112	< 0.0487	< 0.0525	< 0.0508	< 0.0504	< 0.0498
PCB-114	0.694	1.17(NDR)	0.536	0.787	1.21
PCB-118	36.828	59.428	27.428	27.128	53.328
PCB-120	0.217(NDR)	0.365(NDR)	0.164(NDR)	0.117	0.239(NDR)
PCB-121	< 0.0487	< 0.0525	< 0.0508	< 0.0513	0.074(NDR)
PCB-122	0.573(NDR)	0.596	0.19	0.259(NDR)	0.617
PCB-123	0.708	1.11(NDR)	0.579	0.502(NDR)	1.14(NDR)
PCB-126	0.254(NDR)	0.375	0.282(NDR)	0.264	0.352
PCB-127	< 0.129	< 0.2	0.363(NDR)	0.396(NDR)	< 0.192
PCB-128 + 166	7.18	10.6	5.85	5.67	11.2
PCB-129 + 138 + 160 + 163	40.523	61.123	32.523	31.423	60.523
PCB-130	2.49	4.27	2.27	2.15(NDR)	4.1
PCB-131	0.342(NDR)	0.443(NDR)	0.288(NDR)	0.311(NDR)	0.596(NDR)
PCB-132	9.61	15.91	8.31	8.33	15.61
PCB-133	0.803	0.879(NDR)	0.552	0.563(NDR)	1.09(NDR)
PCB-134 + 143	1.5(NDR)	2.39	1.2	1.36(NDR)	2.54
PCB-135 + 151 + 154	9.018	13.648	7.248	7.028	13.648
PCB-136	2.7	4.38	2.33	2.44	0.671(NDR)
PCB-137	1.23	2.1	1.35	1.32(NDR)	1.8(NDR)
PCB-139 + 140	0.552(NDR)	0.761	0.481(NDR)	0.54	0.739
PCB-141	3.28(NDR)	5.14	3.62	3.11	5.49
PCB-142	< 0.156	< 0.168	< 0.114	< 0.0721	< 0.227
PCB-144	1.04	1.51	0.722(NDR)	0.806	1.27
PCB-145	< 0.0487	< 0.0525	< 0.0508	< 0.0504	< 0.0498
PCB-146	7.04	10	4.45	5.23	9.71
PCB-147 + 149	23.826	35.026	17.226	16.926	34.326
PCB-148	0.164(NDR)	0.343(NDR)	0.132(NDR)	0.096(NDR)	0.216(NDR)
PCB-150	0.066(NDR)	0.091(NDR)	< 0.0508	< 0.0504	0.062(NDR)
PCB-152	< 0.0487	< 0.0525	< 0.0508	< 0.0504	< 0.0498

	SH19-R30	PG19-A4 (AXYS)	PG19-G6 (AXYS)	PG19-G6 (AXYS) Duplicate	PG19-M4 (AXYS)
PCB-153 + 168	36.446	52.446	27.546	26.146	51.746
PCB-155	< 0.0487	0.06(NDR)	0.111(NDR)	0.118(NDR)	0.061(NDR)
PCB-156 + 157	4.301	7.031	3.891	3.951	6.511
PCB-158	2.618(NDR)	3.918	2.618	2.648	4.008
PCB-159	< 0.108	0.481(NDR)	< 0.0786	< 0.0504	0.311
PCB-161	< 0.113	< 0.122	< 0.0827	< 0.0522	< 0.164
PCB-162	< 0.108	0.14(NDR)	0.177(NDR)	0.149(NDR)	0.432(NDR)
PCB-164	2.12	3.21	2.01	1.86	3.45
PCB-165	< 0.128	< 0.137	< 0.0931	< 0.0587	< 0.185
PCB-167	1.58	2.63	1.49	1.41(NDR)	2.6
PCB-169	< 0.121	< 0.125	< 1150	< 0.0841	< 0.17
PCB-170	6.86	10.1	6.47	6.24	9.72
PCB-171 + 173	2.79	3.55	2.27	2.3	3.45
PCB-172	1.17(NDR)	1.84(NDR)	1.24	1.13(NDR)	1.69
PCB-174	6.72	10.5	5.92	5.52	9.7(NDR)
PCB-175	0.22(NDR)	0.402(NDR)	0.405	0.4(NDR)	0.503(NDR)
PCB-176	1.09	1.65	1.07	0.827(NDR)	1.79(NDR)
PCB-177	6.7	10	5.34	5.08	9.06
PCB-178	2.98	4.36	2.48	2.02(NDR)	3.85
PCB-179	4.14	6.75	3.17	3.08(NDR)	6.1
PCB-180 + 193	14.736	22.736	14.436	13.436	23.236
PCB-181	0.066(NDR)	0.148(NDR)	0.089	0.056(NDR)	0.104(NDR)
PCB-182	0.091(NDR)	< 0.0525	< 0.0508	< 0.0504	0.07(NDR)
PCB-183 + 185	4.667	6.917	4.747	3.827	5.807
PCB-184	< 0.0487	0.21	0.302(NDR)	0.225(NDR)	0.144(NDR)
PCB-186	< 0.0487	< 0.0525	< 0.0508	< 0.0504	< 0.0498
PCB-187	14.4	21.2	11.8	10.1	21.4
PCB-188	0.054(NDR)	0.068(NDR)	< 0.0508	0.077	0.051(NDR)
PCB-189	0.274(NDR)	0.359	0.311	0.296(NDR)	0.464
PCB-190	1.61	2.49(NDR)	1.46(NDR)	1.29(NDR)	2.15
PCB-191	0.211(NDR)	0.475(NDR)	0.252	0.257(NDR)	0.225(NDR)
PCB-192	< 0.0487	< 0.0525	< 0.0508	< 0.0504	< 0.0498
PCB-194	3.3	4.97	3.15(NDR)	2.66	4.28
PCB-195	2.02	3.07	1.5	1.59	2.44
PCB-196	1.71	2.65	1.61(NDR)	1.66	2.64(NDR)
PCB-197 + 200	0.647	1.15	0.645	0.481(NDR)	1.21(NDR)
PCB-198 + 199	6.45	10.4	5.06	4.82	9.58
PCB-201	0.686(NDR)	1.31	0.577(NDR)	0.67(NDR)	1.07(NDR)
PCB-202	1.66	2.7	1.23	1.04	2.33
PCB-203	2.95	5.14	2.46(NDR)	2.59	4.51(NDR)
PCB-204	< 0.0487	< 0.0525	< 0.0508	< 0.0504	< 0.0504
PCB-205	0.234	0.377	0.186(NDR)	0.259(NDR)	0.288

	SH19-R30	PG19-A4 (AXYS)	PG19-G6 (AXYS)	PG19-G6 (AXYS) Duplicate	PG19-M4 (AXYS)
PCB-206	3.37	5.6	2.71	2.53	4.94
PCB-207	0.484	0.995	0.706(NDR)	0.609(NDR)	0.58
PCB-208	1.36	1.95	0.866	0.93(NDR)	1.8
PCB-209	3.361	5.951	2.531	2.331	4.871(NDR)
Total Monochloro Biphenyls					
Total Dichloro Biphenyls	72.9	85.5	46.7	50.8	99.1
Total Trichloro Biphenyls	150.94	192.94	121.94	104.94	287.94
Total Tetrachloro Biphenyls	229.05	318.05	208.05	157.05	396.05
Total Pentachloro Biphenyls	209.483	321.483	171.483	166.483	313.483
Total Hexachloro Biphenyls	151	237	125	117	228
Total Heptachloro Biphenyls	66.8	98.4	60.1	46.7	87
Total Octachloro Biphenyls	19	31.8	8.43	14.4	18.9
Total Nonachloro Biphenyls	5.21	8.55	3.58	2.53	7.32
Decachloro Biphenyl	3.361	5.951	2.531	2.331	
TOTAL PCBs	907.39	1296.39	748.39	662.39	1436.39

Table 10. Sediment samples from Sand Heads (SH) and Point Grey (PG) disposal sites, and inside and outside Southern Resident Killer Whale (SRKW) Critical Habitat sites were analyzed for 40 polybrominated diphenyl ethers (PBDEs). All values are reported in pg/g dry weight. < = values below reporting limit (RL). NDR = peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration.

	SRKW19-1	SRKW19-1 (Duplicate)	SRKW19-2	SRKW19-3	SRKW19-4	SRKW19-5	SRKW19-6	SRKW19-7	SRKW19-8	SRKW19-9
BDE-7	0.251(NDR)	0.198(NDR)	2.86	0.624	2.49	0.226	4.45	0.939	4.35	4.27
BDE-8 + 11	1.662	1.932	3.472	0.601(NDR)	3.332	0.19	7.04	6.672	6.042	6.732
BDE-10	< 0.154	< 0.107	< 0.161	< 0.348	< 0.335	< 0.236	< 0.174	< 0.207	< 0.191	< 0.182
BDE-12 + 13	0.128(NDR)	0.186	0.307	< 0.206	0.173(NDR)	< 0.146	0.593	0.542	0.488	0.503(NDR)
BDE-15	0.732	0.859	1.979	0.335	2.459	0.199	6.69	2.079	4.919	6.199
BDE-17 + 25	6.499	6.469	10.129	2.569	9.879	1.319	16.5	23.229	14.429	16.429
BDE-28 + 33	3.204	3.344	5.584	1.264	6.024	0.809	9.22	7.174	8.774	9.914
BDE-30	< 0.041	< 0.048	< 0.071	< 0.038	< 0.162	< 0.037	0.325(NDR)	< 0.04	< 0.06	< 0.113
BDE-32	0.085	0.129	0.104(NDR)	< 0.038	0.202(NDR)	< 0.037	< 0.205	0.163	0.15	0.129(NDR)
BDE-35	< 0.039	0.066(NDR)	0.067(NDR)	< 0.038	0.146(NDR)	0.039(NDR)	< 0.17	< 0.04	0.101	0.11
BDE-37	0.118(NDR)	0.137	0.152	0.035	0.18(NDR)	0.013	0.706(NDR)	0.213	0.293	0.295
BDE-47	30.527	32.327	52.727	14.827	60.727	26.327	102.25	123.027	90.527	88.827
BDE-49	6.561(NDR)	6.131	9.641	2.601(NDR)	10.631	3.191	23.8	29.931	17.931	19.431
BDE-51	0.936	1.08	1.65(NDR)	0.435(NDR)	1.95(NDR)	0.299(NDR)	4.08	4.41	3.39	4.06
BDE-66	1.26(NDR)	1.29	2.26(NDR)	0.632(NDR)	2.89	0.887	4.28	4.12	3.83	4.48(NDR)
BDE-71	0.514(NDR)	0.495(NDR)	0.713(NDR)	0.256(NDR)	0.542(NDR)	0.37	< 0.092	2.03	1.11	0.906(NDR)
BDE-75	0.115(NDR)	< 0.097	0.139(NDR)	< 0.094	0.102(NDR)	< 0.093	< 0.092	0.15(NDR)	0.294	0.225
BDE-77	< 0.096	< 0.097	< 0.096	< 0.094	< 0.099	< 0.093	< 0.092	< 0.099	0.163	< 0.109
BDE-79	0.194(NDR)	0.195(NDR)	0.162(NDR)	< 0.094	0.442	< 0.093	0.184(NDR)	0.125(NDR)	< 0.105	0.327(NDR)
BDE-85	< 0.43	0.45(NDR)	0.578(NDR)	0.181(NDR)	0.874	0.971(NDR)	1.89	3.32	1.52	1.16
BDE-99	12.077	13.677	22.377	6.867	27.277	24.877	55.461	73.877	45.577	37.177
BDE-100	5.022	5.172	10.042	2.272	13.842	5.742	27.991	24.042	20.442	21.442
BDE-105	< 0.576	< 0.424	< 0.221	< 0.201	< 0.373	< 0.254	< 0.776	< 0.392	< 0.359	< 0.371
BDE-116	< 0.728	< 0.536	< 0.299	< 0.272	< 0.505	0.346	< 0.974	< 0.493	< 0.452	< 0.468
BDE-119 + 120	< 0.448	< 0.33	0.287(NDR)	< 0.185	0.345(NDR)	< 0.21	< 0.629	< 0.324	0.631(NDR)	0.544(NDR)
BDE-126	< 0.274	< 0.208	< 0.118	< 0.113	< 0.193	< 0.131	< 0.357	< 0.193	0.262(NDR)	0.264(NDR)
BDE-128	< 0.847	< 0.521	< 0.634	< 0.718	< 0.581	< 0.316	< 1.45	< 0.698	< 0.985	< 1.05
BDE-138 + 166	< 0.385	0.394	0.377(NDR)	0.299(NDR)	0.539(NDR)	0.635	0.78	1.32	0.669	0.504
BDE-140	< 0.252	0.31(NDR)	0.251	< 0.135	0.271(NDR)	0.176(NDR)	0.426	0.525(NDR)	0.563	0.442(NDR)
BDE-153	1.656	1.516	3.246(NDR)	0.792(NDR)	3.856	2.766	8.35	9.356	6.566	4.856
BDE-154	2.091	2.291	4.721	1.151	6.411	2.241(NDR)	15.4	10.831	10.931	9.251
BDE-155	0.823	0.866(NDR)	1.573	0.294(NDR)	1.903	0.265(NDR)	6.47	3.353	4.283	4.343
BDE-181	0.281(NDR)	0.154(NDR)	< 0.096	< 0.094	0.26(NDR)	< 0.093	< 1.44	< 0.099	0.517(NDR)	0.317(NDR)
BDE-183	0.231(NDR)	0.522(NDR)	1.131(NDR)	0.338(NDR)	1.831(NDR)	0.638	2.6(NDR)	3.311(NDR)	2.351	2.301

	SRKW19-1	SRKW19-1 (Duplicate)	SRKW19-2	SRKW19-3	SRKW19-4	SRKW19-5	SRKW19-6	SRKW19-7	SRKW19-8	SRKW19-9
BDE-190	< 0.245	0.681(NDR)	0.083	0.14(NDR)	< 0.12	0.109(NDR)	< 2.63	0.472(NDR)	0.89(NDR)	0.37(NDR)
BDE-203	0.619	0.831	2.071	0.431	5.661(NDR)	1.051	6.375	3.871	4.861(NDR)	3.931
BDE-206	3.7	11.54	12.84	7.56	22.74	6.6	68.82	48.74	47.34	22.44
BDE-207	4.51	9.88	15.28	4.54	38.28	6.32	30.97(NDR)	43.18	43.68(NDR)	15.48
BDE-208	2.69	5.1	8.08	2.94	36.5	4.32	79.6	22.9	28.2	12.7
BDE-209	59.5	106.7	191.7	74.7	771.7	107.7	864	1092.7	779.7	949.7

	SRKW19-10	SRKW19-11	SRKW19-12	SRKW19-13	SRKW19-14	SRKW19-15	SRKW19-16	SRKW19-17	SRKW19-17 (Duplicate)	SRKW19-18
BDE-7	4.46	11.8	0.805(NDR)	4.48	2.22	4.35	2.89	1.24	1.22	1.9
BDE-8 + 11	7.622	16.512	0.598	8.6	3.13	3.142	6.17	1.06	1.24	2.22
BDE-10	< 0.138	< 0.312	< 0.118	< 0.172	< 0.244	< 0.257	< 0.174	< 0.121	< 0.123	< 0.154
BDE-12 + 13	0.601	1.143	0.14	0.72	0.434	0.501	0.718	< 0.121	0.208	0.237
BDE-15	7.639	10.109	0.507	7.22	3.85	4.619	7.09	0.652	0.707	1.33
BDE-17 + 25	21.729	46.729	2.22	20.3	11.5	19.129	17.9	4.21	4.13	7.84
BDE-28 + 33	11.714	19.114	1.166	9.746	6.446	7.444	10.756	1.906	2.186	4.216
BDE-30	< 0.095	< 0.279	2.31(NDR)	0.522(NDR)	0.708(NDR)	< 0.117	< 0.174	< 0.121	< 0.123	0.242(NDR)
BDE-32	0.252(NDR)	0.501(NDR)	< 0.118	0.295	0.388	0.466	0.296	0.214	0.181	< 0.154
BDE-35	0.131	< 0.178	0.173(NDR)	< 0.172	< 0.244	0.09	< 0.174	< 0.121	0.206	< 0.154
BDE-37	0.427	0.604(NDR)	1.45	2.15	< 0.244	0.382	1.57	0.231	0.341	0.374
BDE-47	112.027	196.027	18.46	90.06	57.96	95.027	100.26	19.06	18.66	38.86
BDE-49	29.231	75.031	4.473	33.753	17.953	22.031	27.753	3.743	3.873	7.683
BDE-51	7.01	13.6	0.566	7.27	4.66	11.2	5.9	0.519	0.678(NDR)	0.807
BDE-66	6.04	9	0.836	4.65	2.92	4.86	6.22	0.889	1.02	1.92
BDE-71	2.12	3.74	0.249(NDR)	< 0.172	< 0.244	1.53	1.43(NDR)	0.236(NDR)	0.451	< 0.154
BDE-75	0.325(NDR)	0.34(NDR)	< 0.118	0.209(NDR)	< 0.244	0.307(NDR)	0.181	< 0.121	0.2(NDR)	< 0.154
BDE-77	< 0.138	< 0.098	< 0.118	< 0.172	< 0.244	0.172(NDR)	< 0.174	< 0.121	0.189(NDR)	< 0.154
BDE-79	0.394	0.433(NDR)	< 0.118	0.248(NDR)	< 0.244	0.384	1.65(NDR)	< 0.121	0.295	< 0.154
BDE-85	1.8	4.19	0.194	1.132	0.274	0.561	0.772	0	0.192	0.104
BDE-99	61.177	126.277	12.65	57.15	23.45	31.277	43.95	7.75	7.55	17.05
BDE-100	32.442	55.842	4.402	31.902	18.302	28.442	29.002	3.352	3.382	6.752
BDE-105	< 0.819	< 0.932	< 0.234	< 0.881	< 0.343	< 0.382	< 0.474	< 0.121	0.146(NDR)	< 0.262
BDE-116	< 1.03	< 1.26	< 0.342	< 1.29	< 0.501	< 0.517	< 0.693	0.142	0.216	< 0.348
BDE-119 + 120	0.788	1.08(NDR)	< 0.226	< 0.852	0.405	1.41	0.741	< 0.121	0.431	< 0.221
BDE-126	0.434(NDR)	0.707	< 0.13	0.539	0.281	0.457	0.519	< 0.121	0.173	< 0.154
BDE-128	< 0.9	0.945(NDR)	< 0.5	< 1.27	< 1.6	< 0.953	< 0.867	< 0.371	< 0.337	< 0.718
BDE-138 + 166	0.616(NDR)	1.84(NDR)	0.224	0.721	0.36	0.458(NDR)	0.38	< 0.121	0.332	0.221(NDR)
BDE-140	0.669	1.18	0.136(NDR)	0.775	0.476(NDR)	0.602(NDR)	0.622	< 0.121	0.297(NDR)	< 0.154
BDE-153	9.316	17.806	1.812	9.652	4.452	5.426	6.742	1.092	1.212	2.082

	SRKW19-10	SRKW19-11	SRKW19-12	SRKW19-13	SRKW19-14	SRKW19-15	SRKW19-16	SRKW19-17	SRKW19-17 (Duplicate)	SRKW19-18
BDE-154	16.131	28.531	2.211	18.401	9.421	14.831	16.001	1.541	1.881	3.261
BDE-155	7.923	12.743	0.624	9.5	5.45	9.793	7.9	0.773	1.0(NDR)	1.43
BDE-181	< 0.22	< 0.633	< 0.133	< 0.609	< 0.427	0.26	< 0.325	< 0.121	0.188(NDR)	< 0.154
BDE-183	2.791(NDR)	7.981	0.728	19.588	2.798(NDR)	2.711	3.138	0.262	0.431	0.604
BDE-190	< 0.399	1.518(NDR)	< 0.226	< 1.03	0.78(NDR)	0.567(NDR)	< 0.551	< 0.121	0.129(NDR)	< 0.154
BDE-203	5.021	9.491	0.68	10.67	12.17	2.811	8.07	0	0	0
BDE-206	28.84	64.04	0	16.4	34.7	13.04	8.6	0	0	0
BDE-207	19.38	41.98	3.3	22.6	113.3	10.68	34.6	0	0	0
BDE-208	16.5	32.2	1.3(NDR)	18.6	95.6	10.3	34(NDR)	0	0	0
BDE-209	855.7	2782.7	228	879	2819	469.7	799	0	0	0

	SRKW19-19	PG19-I5 (AXYS)	SH19-I5	PG19-F1 (AXYS)	PTP2-PH	PTP2-GINP1	PTP2-EH2	PTP2-STH1	PTP2-SI1	SH19-A2
BDE-7	4.19	3.12	1.74	1.56(NDR)	3.16	1.13	2.82	< 0.126	0.147	< 0.325
BDE-8 + 11	5.31	4.54	2.15	0.853	6.35	1.44	4.16	< 0.126	0.16	< 0.253
BDE-10	< 0.189	< 0.161	< 0.138	< 0.118	< 0.181	< 0.12	< 0.123	< 0.126	< 0.116	< 0.359
BDE-12 + 13	0.65	0.335	0.253	0.299	0.326	< 0.12	0.366	< 0.126	< 0.116	< 0.232
BDE-15	5.33	3.41	1.27	0.689	1.08	0.654	1.51	0.288	0.198	0.355
BDE-17 + 25	21.3	10.4	5.97	3.64	20.3	5.56	12.8	1.26	0.635	1.31
BDE-28 + 33	11.156	6.356	3.166	1.686	2.896	2.26	5.36	1.19	0.625	1.04
BDE-30	< 0.189	0.332(NDR)	0.186(NDR)	2.41(NDR)	< 0.181	< 0.12	0.178(NDR)	0.261(NDR)	< 0.116	< 0.094
BDE-32	0.39	0.242	0.223	< 0.118	0.458	< 0.12	0.16	< 0.126	< 0.116	< 0.094
BDE-35	< 0.189	< 0.161	< 0.138	< 0.118	< 0.181	< 0.12	< 0.123	< 0.126	< 0.116	0.097(NDR)
BDE-37	0.786	< 0.161	0.828	< 0.118	0.352	0.227(NDR)	0.305	0.413	< 0.116	2.63
BDE-47	118.26	73.56	42.16	29.06	43.96	25.1	49.1	37.9	12.6	33.069
BDE-49	29.353	15.253	7.783	10.653	24.453	4.85	14.6	4.69	1.59	3.96
BDE-51	8.15	2.39	1.25	1.16	4.36	0.604	1.92	0.346	< 0.116	0.342
BDE-66	5.96	3.34	1.46	1.11	1.03(NDR)	0.766	1.55	1.06(NDR)	0.567(NDR)	0.841(NDR)
BDE-71	1.57(NDR)	< 0.161	< 0.138	< 0.118	0.846(NDR)	0.265	0.813	0.379	0.131(NDR)	0.281(NDR)
BDE-75	0.242(NDR)	0.195(NDR)	< 0.138	< 0.118	< 0.181	< 0.12	< 0.123	< 0.126	< 0.116	< 0.094
BDE-77	< 0.189	< 0.161	< 0.138	< 0.118	< 0.181	< 0.12	< 0.123	< 0.126	< 0.116	< 0.094
BDE-79	< 0.189	< 0.161	< 0.138	< 0.118	< 0.181	< 0.12	< 0.123	< 0.126	< 0.116	< 0.094
BDE-85	0.992	0.674	0.359	0.554	0.562	0.229	0.905	1.36	0.412	2.03(NDR)
BDE-99	51.15	36.75	20.75	22.25	17.85	10.3	30.2	41.7	11.3	39.803
BDE-100	32.802	18.502	7.642	6.782	7.452	3.33	8.69	9.11	2.24	9.28
BDE-105	< 0.325	< 0.496	< 0.247	< 0.375	< 0.181	< 0.12	< 0.184	< 0.476	< 0.179	< 0.953
BDE-116	< 0.432	< 0.694	< 0.346	< 0.547	0.188(NDR)	< 0.12	< 0.245	< 0.695	< 0.261	< 1.22
BDE-119 + 120	1.26	< 0.463	< 0.23	< 0.362	0.268	0.121	0.21	< 0.46	< 0.173	< 0.752
BDE-126	0.66	< 0.297	< 0.138	< 0.218	0.19	< 0.12	< 0.123	< 0.274	< 0.116	< 0.532
BDE-128	< 0.862	< 0.635	< 0.575	< 0.368	< 0.744	< 0.33	< 0.454	< 1.18	< 1.08	< 4.81

	SRKW19-19	PG19-I5 (AXYS)	SH19-I5	PG19-F1 (AXYS)	PTP2-PH	PTP2-GINP1	PTP2-EH2	PTP2-STH1	PTP2-SI1	SH19-A2
BDE-138 + 166	0.615	0.478	0.319	0.304	0.32(NDR)	0.124(NDR)	0.262(NDR)	0.401	< 0.245	1.54(NDR)
BDE-140	0.821	0.438	0.242	0.22	0.214(NDR)	< 0.12	0.209	0.217	< 0.178	0.359(NDR)
BDE-153	7.372	5.232	2.992	2.812	2.292	1.36	3.5	4.55	1.2	3.798
BDE-154	17.201	9.211	3.751	3.131	3.261	1.77	4.1	3.59	1.06	3.99(NDR)
BDE-155	11.9	3.52	1.57	0.654	3.15	0.85	1.63	0.438	0.154(NDR)	0.556
BDE-181	< 0.189	< 0.161	< 0.138	< 0.219	0.208(NDR)	< 0.12	< 0.123	< 0.134	< 0.146	< 0.094
BDE-183	2.968	1.818	0.828	0.988	1.158	0.547(NDR)	1.55	1.36	1.05	1.85(NDR)
BDE-190	0.376(NDR)	< 0.225	< 0.138	< 0.371	0.469(NDR)	< 0.12	< 0.123	0.306(NDR)	0.273(NDR)	< 0.094
BDE-203	8.47	3.68(NDR)	0.91	4.55	1.63	2.38	4.28	2.68	1.86(NDR)	2.14(NDR)
BDE-206	16.7(NDR)	3.3	0	4.0	6.4(NDR)	20.6	17.7(NDR)	11.5	6.28(NDR)	11.37
BDE-207	47.8	7.8	0	17.6	12.5	20.7	28.7	18.8	8.74	11.24(NDR)
BDE-208	31.8	11.3	0	14.6	5.3(NDR)	16.3	22.2	15.2(NDR)	9.18(NDR)	6.37(NDR)
BDE-209	693	416	302	200	879	597	497	362	183	143.8

	SH19-P6	SH19-R15	SH19-R30	PG19-A4 (AXYS)	PG19-G6 (AXYS)	PG19-G6 (AXYS) (Duplicate)	PG19-M4 (AXYS)
BDE-7	< 0.675	0.985	2.73	5.1	5.63	4.73	3.77
BDE-8 + 11	1.55	1.09	3.9	6.42	5.35	4.73	6.32
BDE-10	< 0.746	< 0.773	< 0.857	< 0.105	< 0.165	< 0.511	< 0.357
BDE-12 + 13	< 0.483	< 0.501	< 0.555	0.464	0.365	< 0.317	0.307
BDE-15	1.29	0.699	2.95	5.98	2.14	2.15	4.85
BDE-17 + 25	9.37	4.53	9.0	18	24.1	20.2	16.3
BDE-28 + 33	4.3	2.72(NDR)	5.34(NDR)	8.38	6.86	5.89	6.75
BDE-30	< 0.38	< 0.164	< 0.279	< 0.169	< 0.234	0.219(NDR)	< 0.236
BDE-32	0.816(NDR)	0.357(NDR)	< 0.229	< 0.131	4.24	3.43	< 0.183
BDE-35	< 0.303	< 0.131	< 0.222	< 0.123	< 0.17	< 0.101	< 0.172
BDE-37	3.76	4.03	4.6(NDR)	1.22	2.34	2.59	3.29
BDE-47	59.269	30.569	44.069	83.369	113.069	155.069	55.069
BDE-49	12.7	5.54	8.46	24.3	32.7	29.6	18.3
BDE-51	1.85	0.735	1.65(NDR)	4.66	4.53	3.84	4.06
BDE-66	1.849(NDR)	0.929(NDR)	1.439	3.049	3.279	4.479	2.079
BDE-71	0.634(NDR)	0.34(NDR)	0.459(NDR)	0.937	1.21(NDR)	1.12(NDR)	0.599
BDE-75	0.158	< 0.096	0.114(NDR)	0.125(NDR)	0.193(NDR)	0.245(NDR)	< 0.1
BDE-77	< 0.098	< 0.096	0.107(NDR)	< 0.105	< 0.102	0.135(NDR)	0.133(NDR)
BDE-79	< 0.098	< 0.096	0.232(NDR)	< 0.105	< 0.102	< 0.101	< 0.1
BDE-85	1.92(NDR)	< 1.11	1.29(NDR)	2.93	3.38	7.49	< 0.978
BDE-99	42.403	19.503	23.403	70.303	90.903	168.203	31.903
BDE-100	15.42	6.39	12.02	28.92	29.12	43.92	16.32
BDE-105	< 1.4	< 1.35	< 1.42	< 0.669	< 0.942	< 1.95	< 1.24
BDE-116	< 1.79	< 1.72	< 1.82	< 0.824	< 1.16	< 2.4	< 1.53

	SH19-P6	SH19-R15	SH19-R30	PG19-A4 (AXYS)	PG19-G6 (AXYS)	PG19-G6 (AXYS) (Duplicate)	PG19-M4 (AXYS)
BDE-119 + 120	< 1.1	< 1.06	< 1.12	0.515(NDR)	< 0.725	< 1.5	< 0.953
BDE-126	< 0.822	< 0.779	< 0.806	0.688(NDR)	< 0.53	< 1.11	< 0.784
BDE-128	< 13.3	< 16.3	< 11.4	< 1.22	< 7.15	< 12.7	< 9.06
BDE-138 + 166	2.87(NDR)	2.63(NDR)	1.83(NDR)	1.04(NDR)	2.97	4.54	1.24(NDR)
BDE-140	< 1.01	< 1.24	< 0.795	0.712	0.848	1.25	< 0.725
BDE-153	5.998	2.368(NDR)	2.988(NDR)	9.358	10.518	18.018	4.408
BDE-154	7.16	3.61	5.57	13.2	11.4	16.5	6.91
BDE-155	2.22(NDR)	1.14	1.86	5.42	4.11	4.08	3.55
BDE-181	< 1.07	< 1.56	0.899	< 0.733	< 0.672	< 2.02	< 0.416
BDE-183	3.03(NDR)	0.8	1.98(NDR)	4.01	4.59	5.94	3.14(NDR)
BDE-190	< 1.79	< 2.6	< 0.923	< 1.28	< 1.17	< 3.53	< 0.727
BDE-203	3.68	1.69(NDR)	3.83(NDR)	8.14	16.82	9.12	4.7(NDR)
BDE-206	32.37(NDR)	29.57	25.57(NDR)	96.47	86.87	83.77	44.87
BDE-207	23.94	25.14	21.74(NDR)	96.44	85.24(NDR)	71.34	42.54(NDR)
BDE-208	21.31(NDR)	20.01	18.51(NDR)	75.31	64.01	60.91(NDR)	33.11
BDE-209	552.8	485.8	319.8	2061.8	1561.8	1551.8	684.8

Table 11. Sediment samples from Sand Heads (SH) and Point Grey (PG) disposal sites, and inside and outside Southern Resident Killer Whale (SRKW) Critical Habitat sites were analyzed for Tetrabromobisphenol A (TBBPA). All values are reported in ng/g dry weight. < = values below reporting limit (RL).

	SRKW19-1	SRKW19-2	SRKW19-3	SRKW19-4	SRKW19-5	SRKW19-6	SRKW19-7	SRKW19-8	SRKW19-8 (Duplicate)	SRKW19-9
TBBPA	< 0.955	< 0.787	< 0.933	< 0.925	< 0.822	< 0.967	< 0.829	< 1.07	< 1.02	< 1.01

	SRKW19-10	SRKW19-11	SRKW19-12	SRKW19-13	SRKW19-14	SRKW19-15	SRKW19-16	SRKW19-17	SRKW19-18	SRKW19-19
TBBPA	< 1.08	< 0.919	< 1.33	< 1.04	< 0.845	< 1.39	< 0.964	< 2.03	< 2.08	< 1.52

	PTP2-PH	PTP2-GINP1	PTP2-EH2	PTP2-STH1	PTP2-STH1 (Duplicate)	PTP2-SI1
TBBPA	< 1.92	1.17	< 0.981	< 2.22	< 1.31	< 1.36

Table 12. Sediment samples from Sand Heads (SH) and Point Grey (PG) disposal sites, and inside and outside Southern Resident Killer Whale (SRKW) Critical Habitat sites were analyzed for Hexabromocyclododecane (HBCDD). All values are reported in ng/g dry weight. < = values below reporting limit (RL).

	SRKW19-1	SRKW19-2	SRKW19-3	SRKW19-4	SRKW19-5	SRKW19-6	SRKW19-7	SRKW19-8	SRKW19-9	SRKW19-10
alpha-HBCDD	< 0.149	0.682	< 0.143	< 0.239	< 0.16	< 0.26	< 0.216	< 0.291	< 0.295	< 0.486
beta-HBCDD	< 0.149	< 0.189	< 0.143	< 0.239	< 0.16	< 0.26	< 0.216	< 0.291	< 0.295	< 0.486
gamma-HBCDD	< 0.149	< 0.189	< 0.143	< 0.239	< 0.16	< 0.26	< 0.216	< 0.291	< 0.295	< 0.486

	SRKW19-11	SRKW19-12	SRKW19-13	SRKW19-14	SRKW19-15	SRKW19-16	SRKW19-17	SRKW19-18	SRKW19-19
alpha-HBCDD	< 0.242	< 0.117	< 0.176	< 0.239	< 0.371	< 0.171	< 0.114	< 0.147	< 0.161
beta-HBCDD	< 0.242	< 0.117	< 0.176	< 0.239	< 0.371	< 0.171	< 0.114	< 0.147	< 0.161
gamma-HBCDD	< 0.242	< 0.117	< 0.176	< 0.239	< 0.371	< 0.171	< 0.114	< 0.147	< 0.161

	PTP2-PH	PTP2-GINP1	PTP2-EH2	PTP2-STH1	PTP2-STH1 (Duplicate)	PTP2-SI1
alpha-HBCDD	2.07	< 0.126	< 0.121	< 0.127	< 0.126	< 0.111
beta-HBCDD	1.18	< 0.126	< 0.121	< 0.127	< 0.126	< 0.111
gamma-HBCDD	17.8	< 0.126	0.434	< 0.127	< 0.126	< 0.111

Table 13. Sediment samples from Sand Heads (SH) and Point Grey (PG) disposal sites, and inside and outside Southern Resident Killer Whale (SRKW) Critical Habitat sites were analyzed for multi residue pesticides (MRES). All values are reported in ng/g dry weight. < = values below reporting limit (RL).

	SRKW19-1	SRKW19-2	SRKW19-3	SRKW19-3 (Duplicate)	SRKW19-4	SRKW19-5	SRKW19-6	SRKW19-7	SRKW19-8
2,4'-DDD	0.013	0.012	< 0.0301	< 0.0288	< 0.0163	< 0.029	< 0.0737	< 0.0383	< 0.076
2,4'-DDE	< 0.0046	< 0.0045	< 0.0258	< 0.0203	< 0.0073	< 0.0137	< 0.0406	< 0.0155	< 0.0569
2,4'-DDT	< 0.0334	< 0.023	< 0.0547	< 0.0532	< 0.043	< 0.0413	< 0.109	< 0.0577	< 0.165
4,4'-DDD	0.046	0.046	< 0.0256	< 0.0235	0.037	< 0.0197	< 0.0504	< 0.0279	< 0.0553
4,4'-DDE	0.073	0.092	< 0.0368	< 0.029	0.083	0.023	0.093	0.065	0.123
4,4'-DDT	< 0.0349	< 0.0235	< 0.0515	< 0.0473	< 0.0457	< 0.0396	< 0.102	< 0.0561	< 0.168
Alachlor	< 1.13	< 1.51	< 1.13	< 0.816	< 1.96	1.64(NDR)	< 1.63	< 1.01	< 1.18
Aldrin	0	0	< 0.0122	< 0.0128	0	0	< 0.0275	< 0.0164	< 0.0362
alpha-Endosulphan	0	0	0	0	0.1(NDR)	0	0	0.05(NDR)	0
Ametryn	< 0.0302	< 0.0384	< 0.116	< 0.0972	< 0.0505	< 0.0505	< 0.202	< 0.0665	< 0.313
Atrazine	< 0.144	< 0.162	< 0.558	< 0.719	< 0.697	< 0.322	< 1.44	< 0.544	< 1.52
Azinphos-Methyl	< 0.289	< 0.31	< 0.501	< 0.295	< 0.729	< 0.461	< 1.08	< 0.5	< 0.931
beta-Endosulphan	0	0	0.032(NDR)	0.102(NDR)	0.042(NDR)	0.067(NDR)	0.15(NDR)	0.175(NDR)	0.156(NDR)
Butralin	< 2.04	< 2.19	< 1.9	< 1.87	< 4.08	< 2.44	< 3.85	< 1.11	< 1.47
Butylate	< 0.063	< 0.0384	< 0.0412	< 0.06	< 0.0637	< 0.0423	< 0.0655	< 0.0529	< 0.0765
Captan	< 1.03	< 0.87	< 3.99	< 3.55	< 1.5	< 1.94	< 6.81	< 2.74	< 14.8
Chlordane, alpha (cis)	< 0.007	< 0.014	< 0.0471	< 0.0536	< 0.0175	< 0.0278	< 0.114	< 0.0334	< 0.145
Chlordane, gamma (trans)	< 0.0086	< 0.0171	< 0.0591	< 0.0673	< 0.0214	< 0.0349	< 0.143	< 0.042	< 0.179
Chlordane, oxy-	< 0.0118	< 0.0154	< 0.0219	< 0.0202	< 0.0197	< 0.0161	< 0.0601	< 0.0243	< 0.104
Chlorothalonil	< 0.0302	< 0.0384	< 0.0286	< 0.0274	< 0.0505	< 0.0331	< 0.0536	< 0.0453	< 0.0652
Chlorpyriphos	< 0.0375	< 0.0384	< 0.0842	< 0.063	< 0.0655	< 0.0423	< 0.131	< 0.0522	< 0.174
Chlorpyriphos-Methyl	< 0.0302	< 0.0384	< 0.0286	< 0.0274	< 0.0505	< 0.0331	< 0.0536	< 0.0453	< 0.0652
Chlorpyriphos-Oxon	< 0.048	< 0.0484	< 0.0718	< 0.0813	< 0.0675	< 0.0475	< 0.187	< 0.0606	< 0.301
Cyanazine	< 0.539	< 1.57	< 0.886	< 0.73	< 1.34	< 0.406	< 1.38	< 0.811	< 2.45
Cypermethrin	< 0.113	< 0.0878	< 0.352	< 0.242	< 0.122	< 0.128	< 0.442	< 0.111	< 0.589
Dacthal	< 0.0302	< 0.0384	< 0.0286	< 0.0274	< 0.0505	< 0.0331	< 0.0536	< 0.0453	< 0.0652
Desethylatrazine	< 0.0302	< 0.0384	< 0.0421	< 0.0402	< 0.0564	< 0.045	< 0.0825	< 0.0512	< 0.102
Diazinon	< 0.123	< 0.13	< 0.433	< 0.513	< 0.196	< 0.158	< 0.762	< 0.249	< 1.01
Diazinon-Oxon	< 0.125	< 0.172	< 0.184	< 0.296	< 0.254	< 0.196	< 0.425	< 0.192	< 0.845
Dieldrin	0	0.005(NDR)	< 0.0183	< 0.0198	0.005(NDR)	< 0.0115	< 0.0495	< 0.0136	< 0.0518
Dimethenamid	< 0.481	< 0.138	< 0.265	< 0.325	< 0.317	< 0.124	< 0.201	< 0.0453	< 0.0652
Dimethoate	< 0.455	< 0.458	< 1.14	< 0.8	< 0.623	< 0.507	< 1.66	< 0.696	< 2.23
Disulfoton	< 0.0852	< 0.107	< 4.18	< 3.3	< 0.138	< 0.356	< 2.66	< 0.508	< 7.12
Disulfoton Sulfone	< 0.0306	< 0.0384	< 0.0415	< 0.0347	< 0.0505	< 0.0331	< 0.119	< 0.0453	< 0.136
Endosulphan Sulphate	< 0.0258	< 0.0468	< 0.0508	< 0.0704	< 0.0695	< 0.091	< 0.134	< 0.111	< 0.17
Endrin	< 0.0084	< 0.0187	< 0.0242	< 0.0251	< 0.0255	< 0.0178	< 0.0558	< 0.0238	< 0.063
Endrin Ketone	< 0.0443	< 0.0302	< 0.145	< 0.154	< 0.0334	< 0.231	< 0.527	< 0.167	< 0.336
Ethalfluralin	< 0.576	< 0.759	< 0.481	< 0.436	< 0.926	< 0.491	< 0.864	< 0.153	< 0.246

	SRKW19-1	SRKW19-2	SRKW19-3	SRKW19-3 (Duplicate)	SRKW19-4	SRKW19-5	SRKW19-6	SRKW19-7	SRKW19-8
Ethion	< 0.155	< 0.119	< 0.159	< 0.127	< 0.14	< 0.0871	< 0.263	< 0.114	< 0.333
Fenitrothion	< 0.0954	< 0.0725	< 0.0324	< 0.0312	< 0.147	< 0.0331	< 0.0832	< 0.0453	< 0.106
Flufenacet	< 2.06	< 3.55	< 2.14	< 0.993	< 0.567	< 0.964	< 2.41	< 0.267	< 0.72
Flutriafol	< 2.74	< 1.53	< 0.583	< 0.541	< 0.932	< 0.405	< 0.624	< 0.32	< 0.526
Fonofos	< 0.0302	< 0.0384	< 0.0286	< 0.0274	< 0.0505	< 0.0331	< 0.0536	< 0.0453	< 0.0652
HCH, alpha	< 0.0098	0.015	< 0.127	< 0.164	0.018	< 0.112	< 0.268	< 0.104	< 0.308
HCH, beta	0.015(NDR)	0.027(NDR)	< 0.17	< 0.152	0.026(NDR)	< 0.0864	< 0.343	< 0.0985	< 0.331
HCH, delta	< 0.0121	< 0.0105	< 0.153	< 0.125	< 0.0186	< 0.0697	< 0.315	< 0.0807	< 0.283
HCH, gamma	< 0.0126	< 0.0172	< 0.148	< 0.201	< 0.0236	< 0.0858	< 0.265	< 0.134	< 0.386
Heptachlor	< 0.003	< 0.0038	< 0.0108	< 0.0099	< 0.0051	< 0.0069	< 0.0208	< 0.0145	< 0.0296
Heptachlor Epoxide	0	0	< 0.0213	< 0.0277	0.008(NDR)	0.014(NDR)	< 0.0642	< 0.0188	0.077(NDR)
Hexachlorobenzene	0.028	0.047	0.016	0.013	0.043	0.015	0.043	0.037	0.068
Hexazinone	< 0.0442	< 0.0711	< 0.123	< 0.144	< 0.138	< 0.12	< 0.35	< 0.196	< 0.296
Linuron	< 3.87	< 1.98	< 2.49	< 3.44	< 5.35	< 1.06	< 2.71	< 1.14	< 0.951
Malathion	< 0.15	< 0.138	< 0.137	< 0.168	< 0.207	< 0.118	< 0.326	< 0.16	< 0.5
Methoprene	< 20.2	< 13.5	< 15.3	< 16.5	< 29.3	< 24.1	< 19.2	< 24.5	< 23.8
Methoxychlor	< 0.619	< 0.582	< 0.496	< 0.499	< 0.411	< 0.362	< 1.08	< 0.652	< 1.89
Metolachlor	< 0.309	< 0.37	< 0.486	< 1.56	< 0.904	< 0.406	< 0.838	< 0.37	< 0.364
Metribuzin	< 0.154	< 0.168	< 0.146	< 0.16	< 0.231	< 0.109	< 0.443	< 0.178	< 0.501
Mirex	< 0.0048	< 0.0067	< 0.0268	< 0.0254	< 0.0114	< 0.0347	< 0.0688	< 0.0311	< 0.0666
Nonachlor, cis-	< 0.0105	< 0.0238	< 0.0623	< 0.0561	< 0.0293	< 0.0385	< 0.116	< 0.052	< 0.125
Nonachlor, trans-	< 0.0087	< 0.0172	< 0.0471	< 0.056	< 0.0211	< 0.0291	< 0.128	< 0.0334	< 0.169
Octachlorostyrene	< 0.006	< 0.0038	< 0.163	< 0.208	0.018(NDR)	< 0.153	< 0.57	< 0.272	< 1.08
Parathion-Ethyl	< 0.106	< 0.0956	< 0.0387	< 0.0418	< 0.268	< 0.0331	< 0.113	< 0.0453	< 0.206
Parathion-Methyl	< 0.543	< 0.682	< 0.943	< 1.07	< 1.18	< 0.558	< 2.32	< 0.633	< 2.36
Pendimethalin	< 2.21	< 3.64	< 5.16	< 2.58	< 10.4	< 5.74	< 4.2	< 2.21	< 8
Permethrin	< 0.0509	< 0.0662	< 0.169	< 0.125	< 0.0912	< 0.151	< 0.272	< 0.155	< 0.362
Perthane	< 0.706	< 0.97	< 0.543	< 0.44	< 0.707	< 0.348	< 0.906	< 0.603	< 1.97
Phorate	< 0.0542	< 0.0573	< 0.39	< 0.304	< 0.0797	< 0.0589	< 0.435	< 0.0787	< 1.27
Phosmet	< 0.0834	< 0.0975	< 0.095	< 0.0855	< 0.138	< 0.095	< 0.234	< 0.141	< 0.236
Pirimiphos-Methyl	< 0.0302	< 0.0384	< 0.0853	< 0.119	< 0.0505	< 0.0331	< 0.218	< 0.0453	< 0.37
Quintozene	< 0.0302	< 0.0384	< 0.0286	< 0.0274	< 0.0505	< 0.0331	< 0.0536	< 0.0453	< 0.0656
Simazine	< 0.204	< 0.193	< 0.472	< 0.34	< 0.562	< 0.265	< 0.711	< 0.222	< 1.05
Tebuconazol	< 0.752	< 0.836	< 1.52	< 1.25	< 2.55	< 0.912	< 1.27	< 0.168	< 0.467
Tecnazene	< 0.0302	< 0.0384	< 0.0286	< 0.0274	< 0.0505	< 0.0331	< 0.0536	< 0.0453	< 0.0652
Terbufos	< 0.0513	< 0.104	< 0.454	< 0.529	< 0.125	< 0.265	< 0.702	< 0.275	< 1.12
Triallate	< 0.233	< 0.122	< 0.176	< 0.148	< 0.22	< 0.103	< 0.166	< 0.0453	< 0.0652
Trifluralin	< 0.0625	< 0.0519	< 0.0613	< 0.0412	< 0.0704	< 0.0375	< 0.0603	< 0.0453	< 0.0652

	SRKW19-9	SRKW19-10	SRKW19-11	SRKW19-12	SRKW19-13	SRKW19-14	SRKW19-15	SRKW19-16	SRKW19-17
2,4'-DDD	< 0.0544	< 0.111	< 0.0271	< 0.0189	< 0.0238	< 0.0558	< 0.0566	< 0.0357	< 0.0241
2,4'-DDE	< 0.0271	< 0.0686	< 0.0182	0.011	< 0.0102	< 0.0128	< 0.0284	< 0.012	< 0.0096

	SRKW19-9	SRKW19-10	SRKW19-11	SRKW19-12	SRKW19-13	SRKW19-14	SRKW19-15	SRKW19-16	SRKW19-17
2,4'-DDT	< 0.097	< 0.228	< 0.0596	< 0.0457	< 0.0677	< 0.126	< 0.124	< 0.101	< 0.0682
4,4'-DDD	< 0.0322	< 0.0804	0.03	0.034	0.042	0.066(NDR)	0.072	0.094	< 0.0323
4,4'-DDE	0.125	0.182	0.098	0.067	0.103	0.138	0.318	0.202	0.036
4,4'-DDT	< 0.0977	< 0.244	< 0.0614	0.282	< 0.0719	< 0.137	< 0.129	< 0.114	< 0.0794
Alachlor	< 1.85	< 2.02	< 1.34				< 1.43		
Aldrin	< 0.016	< 0.0743	< 0.0098	0	0	0	< 0.0268	0	< 0.0025
alpha-Endosulphan	0	< 0.296	0	0	0.085(NDR)	0	0	0	0.004(NDR)
Ametryn	< 0.153	< 0.384	< 0.134				< 0.0893		
Atrazine	< 0.626	< 2.04	< 0.474	< 0.306	< 0.191	< 0.349	< 0.614	< 0.239	< 0.212
Azinphos-Methyl	< 0.845	< 1.58	< 0.505	< 0.541	< 0.64	< 0.905	< 0.922	< 0.774	< 0.685
beta-Endosulphan	0.109(NDR)	< 0.391	< 0.13	0.008(NDR)	0.06(NDR)	0.104(NDR)	0.297(NDR)	0.065(NDR)	0.01(NDR)
Butralin	< 1.81	< 2.59	< 1.59				< 3.57		
Butylate	< 0.0763	< 0.0876	< 0.0581				< 0.0897		
Captan	< 6.78	< 17.5	< 4.49	< 0.769	< 1.08	< 1.35	< 6.21	< 1.2	< 0.78
Chlordane, alpha (cis)	< 0.0534	< 0.239	< 0.0382	0.009	0	0	< 0.0905	< 0.0036	< 0.0031
Chlordane, gamma (trans)	< 0.0662	< 0.296	< 0.0473	0.005	0	< 0.0051	< 0.112	0	< 0.0036
Chlordane, oxy-	< 0.0272	< 0.0902	< 0.0186	0.003(NDR)	< 0.0052	0.01(NDR)	< 0.038	< 0.0036	0.007(NDR)
Chlorothalonil	< 0.0628	< 0.0876	< 0.0502				< 0.0893		
Chlorpyriphos	< 0.0824	< 0.216	< 0.053	< 0.0242	< 0.0346	< 0.0511	< 0.0893	< 0.0421	< 0.0252
Chlorpyriphos-Methyl	< 0.0628	< 0.0876	< 0.0502	< 0.0242	< 0.0346	< 0.0511	< 0.0893	< 0.0361	< 0.0252
Chlorpyriphos-Oxon	< 0.1	< 0.227	< 0.0502	< 0.0242	< 0.0346	< 0.0511	< 0.093	< 0.0435	< 0.0254
Cyanazine	< 1.1	< 2.46	< 0.958	< 0.427	< 0.61	< 0.651	< 1.11	< 0.766	< 0.631
Cypermethrin	< 0.25	< 0.686	< 0.136	< 0.168	< 0.242	< 0.518	< 0.191	< 0.404	< 0.325
Dacthal	< 0.0628	< 0.0876	< 0.0502	< 0.0242	< 0.0346	< 0.0511	< 0.0893	< 0.0361	< 0.0252
Desethylatrazine	< 0.0843	< 0.152	< 0.0502	< 0.0275	< 0.0346	< 0.0678	< 0.0893	< 0.0441	< 0.0429
Diazinon	< 0.394	< 1.65	< 0.297	< 0.295	< 0.407	< 0.455	< 0.457	< 0.502	< 0.357
Diazinon-Oxon	< 0.334	< 1.06	< 0.231				< 0.404		
Dieldrin	< 0.0257	< 0.0797	< 0.0149	0.013	0	0	< 0.0351	0.002(NDR)	0
Dimethenamid	< 0.0628	< 0.0876	< 0.0502				< 0.0893		
Dimethoate	< 0.859	< 1.95	< 0.58	< 0.429	< 0.435	< 0.831	< 1.04	< 0.75	< 0.541
Disulfoton	< 1.43	< 12.8	< 0.508	< 0.0906	< 0.0902	< 0.0573	< 0.604	< 0.119	< 0.0739
Disulfoton Sulfone	< 0.0628	< 0.161	< 0.0502	< 0.0364	< 0.0622	< 0.0932	< 0.0893	< 0.0838	< 0.0456
Endosulphan Sulphate	< 0.0829	< 0.329	< 0.11	< 0.0047	< 0.0206	< 0.0074	< 0.203	< 0.0343	< 0.0126
Endrin	< 0.047	< 0.15	< 0.0314	0	0	< 0.0055	< 0.0567	0	0
Endrin Ketone	< 0.208	< 0.814	< 0.151	< 0.0181	< 0.0185	< 0.047	< 0.257	< 0.0235	< 0.0211
Ethalfluralin	< 0.28	< 0.409	< 0.268				< 0.469		
Ethion	< 0.181	< 0.393	< 0.104	< 0.0557	< 0.0761	< 0.137	< 0.134	< 0.0831	< 0.0705
Fenitrothion	< 0.0628	< 0.12	< 0.0502	< 0.0373	< 0.0508	< 0.0672	< 0.0893	< 0.0557	< 0.05
Flufenacet	< 0.25	< 0.679	< 0.507				< 0.924		
Flutriafol	< 0.519	< 1.3	< 0.8				< 0.616		
Fonofos	< 0.0628	< 0.0876	< 0.0502	< 0.0242	< 0.0346	< 0.0511	< 0.0893	< 0.0361	< 0.0252
HCH, alpha	< 0.157	< 0.384	< 0.0697	< 0.0091	0.005	0.016	< 0.21	0.012(NDR)	< 0.0085
HCH, beta	< 0.198	< 0.554	< 0.0952	< 0.013	0	< 0.0333	< 0.152	0.012	< 0.0138
HCH, delta	< 0.165	< 0.448	< 0.0769	< 0.0123	< 0.0101	< 0.0273	< 0.121	< 0.0177	< 0.0129

	SRKW19-9	SRKW19-10	SRKW19-11	SRKW19-12	SRKW19-13	SRKW19-14	SRKW19-15	SRKW19-16	SRKW19-17
HCH, gamma	< 0.303	< 0.482	< 0.136	< 0.0096	< 0.0206	< 0.0193	< 0.173	0.008(NDR)	< 0.0167
Heptachlor	< 0.0177	< 0.0595	< 0.0084	< 0.0024	0	< 0.0051	< 0.0263	< 0.0036	< 0.0025
Heptachlor Epoxide	0.033(NDR)	< 0.122	< 0.0209	0.001(NDR)	0.007(NDR)	< 0.0051	0.041(NDR)	0	< 0.0028
Hexachlorobenzene	0.065	0.107	0.038	0.009	0.043	0.044	0.085	0.057	0.013
Hexazinone	< 0.23	< 0.5	< 0.183				< 0.312		
Linuron	< 1.28	< 1.2	< 1.17				< 1.41		
Malathion	< 0.281	< 0.567	< 0.159	< 0.0753	< 0.0903	< 0.157	< 0.217	< 0.122	< 0.0919
Methoprene	< 18.4	< 22.2	< 15.7				< 38.8		
Methoxychlor	< 1.49	< 3.17	< 0.969	< 0.216	< 0.305	< 0.548	< 1.41	< 0.463	< 0.247
Metolachlor	< 0.611	< 0.509	< 0.41				< 0.363		
Metribuzin	< 0.221	< 0.431	< 0.192	< 0.181	< 0.255	< 0.32	< 0.233	< 0.276	< 0.219
Mirex	< 0.0394	< 0.147	< 0.031	< 0.0027	< 0.0035	< 0.0051	< 0.0447	0	0
Nonachlor, cis-	< 0.0942	< 0.341	< 0.0632	0	0	0	< 0.104	0	< 0.003
Nonachlor, trans-	< 0.0698	< 0.234	< 0.0426	0.01	0	0.004(NDR)	< 0.0952	< 0.0036	< 0.0033
Octachlorostyrene	< 0.341	< 1.31	< 0.204	< 0.0038	< 0.0044	< 0.0051	< 0.559	< 0.0057	< 0.0025
Parathion-Ethyl	< 0.0628	< 0.151	< 0.0502	< 0.0244	< 0.0842	< 0.0511	< 0.0982	< 0.0361	< 0.0252
Parathion-Methyl	< 1.55	< 3.6	< 0.719	< 0.361	< 0.571	< 0.797	< 1.07	< 0.704	< 0.451
Pendimethalin	< 14	< 21	< 16				< 35		
Permethrin	< 0.242	< 0.554	< 0.14	< 0.093	< 0.141	< 0.153	< 0.299	< 0.19	< 0.138
Perthane	< 1.13	< 1.99	< 0.728	< 0.324	< 0.673	< 0.713	< 1.06	< 0.958	< 0.574
Phorate	< 0.147	< 0.888	< 0.0675	< 0.0716	< 0.1	< 0.13	< 0.0893	< 0.0956	< 0.0699
Phosmet	< 0.169	< 0.362	< 0.121	< 0.102	< 0.118	< 0.144	< 0.181	< 0.166	< 0.105
Pirimiphos-Methyl	< 0.091	< 0.391	< 0.0515				< 0.098		
Quintozene	< 0.0628	< 0.101	< 0.0502	< 0.0242	< 0.0346	< 0.0511	< 0.0893	< 0.0361	< 0.0252
Simazine	< 0.55	< 1.48	< 0.353	< 0.14	< 0.131	< 0.274	< 0.54	< 0.19	< 0.185
Tebuconazol	< 0.499	< 0.69	< 0.671				< 1.8		
Tecnazene	< 0.0628	< 0.0876	< 0.0502	< 0.0242	< 0.0346	< 0.0511	< 0.0893	< 0.0361	< 0.0252
Terbufos	< 0.536	< 0.96	< 0.22	< 0.0688	< 0.0872	< 0.195	< 0.222	< 0.175	< 0.106
Triallate	< 0.0672	< 0.0876	< 0.0646				< 0.102		
Trifluralin	< 0.0628	< 0.0876	< 0.0502				< 0.0893		

	SRKW19-18	SRKW19-19	PTP2-PH	PTP2-GINP1	PTP2-EH2	PTP2-STH1	PTP2-STH1 (Duplicate)	PTP2-STI1
2,4'-DDD	< 0.0246	< 0.0323	< 0.0335	< 0.0195	0.024	< 0.0255	< 0.0353	< 0.0196
2,4'-DDE	< 0.0103	< 0.0117	< 0.0127	< 0.0085	< 0.0089	< 0.0103	< 0.0125	< 0.0081
2,4'-DDT	< 0.0786	< 0.0965	< 0.062	< 0.0385	< 0.0513	< 0.0712	< 0.0758	< 0.0622
4,4'-DDD	< 0.0355	0.064	0.096	0.021	0.081	< 0.0367	< 0.0369	< 0.0307
4,4'-DDE	0.077	0.202	0.178	0.045	0.086	< 0.0138	< 0.0168	< 0.0108
4,4'-DDT	< 0.0875	< 0.11	< 0.0681	< 0.0401	0.071(NDR)	< 0.0789	< 0.0792	< 0.0659
Alachlor			0.499(NDR)	< 0.0782	< 0.135	0.159(NDR)	1.688(NDR)	< 0.0587
Aldrin	0	0	0	0	0	0	0	0
alpha-Endosulphan	0.064(NDR)	0.076(NDR)	0.095(NDR)	0.043(NDR)	0	0	0.006(NDR)	0
Ametryn								

	SRKW19-18	SRKW19-19	PTP2-PH	PTP2-GINP1	PTP2-EH2	PTP2-STH1	PTP2-STH1 (Duplicate)	PTP2-STI1
Atrazine	< 0.21	< 0.311	< 2.14	< 0.419	< 0.279	< 0.166	< 0.303	< 0.158
Azinphos-Methyl	< 0.603	< 0.888	< 3.91	< 0.818	< 0.552	< 0.733	< 0.722	< 0.394
beta-Endosulphan	0.064(NDR)	0.083(NDR)	0.073(NDR)	< 0.108	0.036(NDR)	0.021(NDR)	0.035(NDR)	0.003(NDR)
Butralin			< 0.592	< 0.512	< 0.531	< 0.611	< 0.585	< 0.341
Butylate			< 0.0365	< 0.0243	< 0.025	< 0.0255	< 0.0258	< 0.0236
Captan	< 0.953	< 1.12	< 1.06	< 0.99	< 1.33	< 0.954	< 0.979	< 0.807
Chlordane, alpha (cis)	0	< 0.0053	0	< 0.0105	< 0.0175	< 0.0072	< 0.0049	< 0.004
Chlordane, gamma (trans)	< 0.0037	0.001	< 0.0057	< 0.0125	< 0.0209	< 0.0084	0.004(NDR)	< 0.0046
Chlordane, oxy-	0.009(NDR)	< 0.0069	< 0.0124	< 0.0129	< 0.0161	< 0.009	< 0.0054	0.006(NDR)
Chlorothalonil								
Chlorpyriphos	< 0.0314	< 0.0442	< 0.0464	< 0.0307	< 0.027	< 0.0287	< 0.0336	< 0.0236
Chlorpyriphos-Methyl	< 0.0314	< 0.0393	< 0.0365	< 0.0243	< 0.025	< 0.0255	< 0.0258	< 0.0236
Chlorpyriphos-Oxon	< 0.032	< 0.0523	< 0.0365	< 0.0325	< 0.033	< 0.0255	< 0.0258	< 0.0236
Cyanazine	< 0.837	< 1.03	< 0.787	< 0.629	< 0.869	< 0.454	< 0.526	< 0.445
Cypermethrin	< 0.258	< 0.414	< 0.266	< 0.153	< 0.175	< 0.268	< 0.25	< 0.194
Dacthal	< 0.0314	< 0.0393	< 0.0365	< 0.0243	< 0.025	< 0.0255	< 0.0258	< 0.0236
Desethylatrazine	< 0.0322	< 0.0684	< 0.31	< 0.0404	< 0.0339	< 0.0255	< 0.0283	< 0.0236
Diazinon	< 0.308	< 0.407	< 1.09	< 0.305	< 0.448	< 0.301	< 0.403	< 0.279
Diazinon-Oxon								
Dieldrin	0	< 0.0039	0.028	< 0.0054	< 0.0084	< 0.0035	< 0.0026	< 0.0024
Dimethenamid			< 0.0365	< 0.0243	< 0.025	< 0.0255	< 0.0258	< 0.0236
Dimethoate	< 0.523	< 0.816	< 0.705	< 0.491	< 0.517	< 0.584	< 0.541	< 0.408
Disulfoton	< 0.0866	< 0.0827	< 0.141	< 0.16	< 0.154	< 0.0468	< 0.108	< 0.0522
Disulfoton Sulfone	< 0.0784	< 0.0983	< 0.0958	< 0.053	< 0.0759	< 0.0575	< 0.0621	< 0.0461
Endosulphan Sulphate	< 0.0227	< 0.0294	< 0.0124	< 0.0976	< 0.0385	0.018(NDR)	< 0.0196	< 0.01
Endrin	< 0.0031	0	0	< 0.0278	< 0.0202	0	0.001(NDR)	0.001(NDR)
Endrin Ketone	< 0.0305	0.095(NDR)	< 0.105	< 0.0886	< 0.117	< 0.0361	< 0.024	< 0.0256
Ethalfluralin			< 0.0587	< 0.0495	< 0.0511	< 0.0532	< 0.0521	< 0.0467
Ethion	< 0.0858	< 0.12	< 0.185	< 0.0664	< 0.108	< 0.0552	< 0.0653	< 0.0478
Fenitrothion	< 0.053	< 0.0601	< 0.0766	< 0.0557	< 0.059	< 0.0494	< 0.0557	< 0.0338
Flufenacet			< 0.0623	< 0.0505	< 0.106	< 0.0914	< 0.171	< 0.0688
Flutriafol			< 0.139	< 0.118	< 0.0986	< 0.104	< 0.113	< 0.104
Fonofos	< 0.0314	< 0.0393	< 0.0365	< 0.0243	< 0.025	< 0.0255	< 0.0258	< 0.0236
HCH, alpha	0.007	0.011	0.014	0	0.004	< 0.0093	< 0.0106	< 0.0089
HCH, beta	0.018	0.021	0.023	0	0.004	< 0.0213	< 0.0226	< 0.0121
HCH, delta	< 0.0169	< 0.0218	< 0.0213	< 0.0114	< 0.0166	< 0.0206	< 0.0201	< 0.011
HCH, gamma	< 0.0133	< 0.0134	0.011(NDR)	< 0.008	< 0.0185	< 0.0138	< 0.0173	< 0.0125
Heptachlor	< 0.0031	< 0.0039	< 0.0036	< 0.0024	< 0.0041	< 0.0033	0	< 0.0024
Heptachlor Epoxide	< 0.0031	0	0.179	< 0.0099	< 0.0156	< 0.0066	< 0.0043	< 0.0033
Hexachlorobenzene	0.046	0.081	0.033	0.012	0.028	0.006	0.008	0
Hexazinone								
Linuron			< 2.68	< 0.927	< 0.874	< 0.835	< 1.23	< 0.526
Malathion	< 0.128	< 0.147	< 0.141	< 0.0978	< 0.121	< 0.0776	< 0.0889	< 0.0579

	SRKW19-18	SRKW19-19	PTP2-PH	PTP2-GINP1	PTP2-EH2	PTP2-STH1	PTP2-STH1 (Duplicate)	PTP2-STI1
Methoprene			< 23.1	< 21.4	< 3.51	< 14.2	< 16.4	< 5.14
Methoxychlor	< 0.322	< 0.527	< 0.914	< 0.332	< 0.777	< 0.396	< 0.39	< 0.188
Metolachlor			< 0.529	< 0.0599	< 0.0934	< 0.266	< 0.373	< 0.102
Metribuzin	< 0.332	< 0.313	< 0.365	< 0.206	< 0.525	< 0.204	< 0.188	< 0.163
Mirex	0.002(NDR)	< 0.0039	< 0.0151	< 0.012	< 0.0122	< 0.0027	< 0.0026	< 0.0029
Nonachlor, cis-	< 0.0031	0	0	< 0.0259	< 0.019	0	0	< 0.0032
Nonachlor, trans-	0	< 0.0062	0.005(NDR)	< 0.012	< 0.0187	< 0.0082	< 0.0057	0.001(NDR)
Octachlorostyrene	< 0.0035	< 0.0046	< 0.0115	< 0.0042	< 0.0137	< 0.0049	< 0.0049	< 0.004
Parathion-Ethyl	< 0.0642	< 0.0393	< 0.0613	< 0.0477	< 0.082	< 0.0311	< 0.0258	< 0.0243
Parathion-Methyl	< 0.509	< 0.527	< 0.681	< 0.492	< 0.785	< 0.695	< 0.626	< 0.49
Pendimethalin			< 2.31	< 3.75	< 3.88	< 4.52	< 3.31	< 2.39
Permethrin	< 0.126	< 0.179	< 0.144	< 0.0813	< 0.111	< 0.208	< 0.133	< 0.0734
Perthane	< 1.03	< 1.05	< 0.787	< 0.509	< 1.1	< 0.369	< 0.337	< 0.212
Phorate	< 0.0906	< 0.101	< 0.128	< 0.0908	< 0.162	< 0.101	< 0.114	< 0.0882
Phosmet	< 0.12	< 0.161	< 0.244	< 0.0958	< 0.161	< 0.0852	< 0.104	< 0.0762
Pirimiphos-Methyl								
Quintozene	< 0.0314	< 0.0393	< 0.0365	< 0.0243	< 0.025	< 0.0255	< 0.0258	< 0.0236
Simazine	< 0.212	< 0.319	< 1.7	< 0.262	< 0.194	< 0.129	< 0.157	< 0.0932
Tebuconazol			< 0.307	< 1.45	< 0.988	< 1.13	< 0.953	< 0.622
Tecnazene	< 0.0314	< 0.0393	< 0.0365	< 0.0243	< 0.025	< 0.0255	< 0.0258	< 0.0236
Terbufos	< 0.157	< 0.176	< 0.0988	< 0.0802	< 0.142	< 0.125	< 0.146	< 0.1
Triallate			< 0.0365	< 0.0243	< 0.025	< 0.0255	< 0.0258	< 0.0236
Trifluralin			< 0.0365	< 0.0243	< 0.025	< 0.0255	< 0.0258	< 0.0236

Table 14. Sediment samples from Sand Heads (SH) and Point Grey (PG) disposal sites, and inside and outside Southern Resident Killer Whale (SRKW) Critical Habitat sites were analyzed for polyaromatic hydrocarbons (PAH). All values are reported in ng/g dry weight. < = values below reporting limit (RL).

	SRKW19-1	SRKW19-1 (Duplicate)	SRKW19-2	SRKW19-3	SRKW19-4	SRKW19-5	SRKW19-6
1-Methylchrysene	1.56	1.36	1.66	0.443	1.16	0.701	1.16
1-Methylnaphthalene	15.8	18.6	28.3	4.75	19.4	4.16	14
1-Methylphenanthrene	11.5	13	14.6	3.08	9.22	2.69	7.34
1,2-Dimethylnaphthalene	4.67	4.83	7.05	1.1	4.67	0.524(NDR)	3.39
1,2,6-Trimethylphenanthrene	1.62	1.71	1.76	0.441	1.3	0.502	1.15
1,4,6,7-Tetramethylnaphthalene	3.53(NDR)	3.1	3.79	0.896(NDR)	2.26(NDR)	0.609(NDR)	1.95(NDR)
1,7-Dimethylfluorene	1.98	2.27	1.65	0.488	1.76	0.374(NDR)	1.09
1,7-Dimethylphenanthrene	6.95	6.72	8.65	2.19	5.71	2.73	4.67
1,8-Dimethylphenanthrene	1.26	1.13	1.35	0.253	0.805	0.252	0.674
2-Methylanthracene	0.697	1.28	0.949	0.315(NDR)	0.781	0.312	0.448(NDR)
2-Methylfluorene	2.13	2.17	3.54	0.56	2.61	0.805	1.89
2-Methylnaphthalene	19.4	22.5	36.4	7.33	26	6.9	19.8
2-Methylphenanthrene	15	15.7	19.4	3.75	13	3.34	10.1
2,3,5-Trimethylnaphthalene	18.9	16.7	23.4	4.74	13.8	2.33	10.8
2,3,6-Trimethylnaphthalene	16.4	14.7	20.7	4.33	12.9	2.76	9.91
2,4-Dimethyldibenzothiophene	0.887(NDR)	0.908	0.976(NDR)	0.295	0.787	0.363(NDR)	0.715
2,6-Dimethylnaphthalene	18.8	19.1	31.2	6.45	21.8	4.5	15.8
2,6-Dimethylphenanthrene	4.48	4.76	5.69	1.05	3.22	1.12	2.98
2/3-Methyldibenzothiophenes	1.23	1.36	2.05	0.343	1.15	0.323	0.704(NDR)
3-Methylfluoranthene/Benzo[a]fluorene	15.1	12.9	14.7	3.19	9.41	5.14	8.43
3-Methylphenanthrene	12.7	13.5	16.1	3.15	10.6	2.82	8.5
3,6-Dimethylphenanthrene	4.27(NDR)	3.56(NDR)	4.77(NDR)	0.836(NDR)	3.02(NDR)	0.959(NDR)	2.44(NDR)
4,6-Dimethyldibenzothiophene	0.78(NDR)	0.809(NDR)	0.93	0.252	0.714	0.316	0.665(NDR)
5,9-Dimethylchrysene	2.14	2.05	2.3	0.741	1.84	1.05	1.56
5/6-Methylchrysene	1.45	0.894	1.59	0.231	0.843	0.352	0.665
7-Methylbenzo[a]pyrene	0.663	0.623	0.862	0.208	0.519	< 0.228	0.445
9/4-Methylphenanthrene	13.2	14.3	16.4	3.36	11	2.44	7.51
Acenaphthene	0.979	1.4	1.55	0.338(NDR)	1.31(NDR)	0.954	1.15
Acenaphthylene	0.447	1.06	0.645	0.189	0.693	0.489	0.895
Anthracene	1.21	2.55	1.44	0.394	1.44	1.25	2.23
Benz[a]anthracene	7.39	6.5(NDR)	5.77(NDR)	1.42(NDR)	4.3(NDR)	4.21	6.17(NDR)
Benzo[a]pyrene	7.69	6.56	5.17	1.09	4.31	1.79	6.83
Benzo[b]fluoranthene	14.1	7.31	6.86	1.79	5.36	6.62	8.46
Benzo[e]pyrene	10.5	5.82	6	1.48	5.05	4.36	7.01
Benzo[ghi]perylene	6.4	5.56	5.63	1.51	4.62	2.44	6.73
Benzo[j,k]fluoranthenes	9.18	4.87	4.92	1.1	3.37	2.99	5.92
Biphenyl	5.15	5	8.82	2.51	7.39	3.02	6.15
C1 Phenanthrenes/Anthracenes	53.1	57.8	67.5	13.3	44.5	11.6	33.5

	SRKW19-1	SRKW19-1 (Duplicate)	SRKW19-2	SRKW19-3	SRKW19-4	SRKW19-5	SRKW19-6
C1-Acenaphthenes	0.209	0.181	< 0.476	< 0.115	< 0.242	< 0.122	< 0.24
C1-Benzo[a]anthracenes/Chrysenes	15.1	12	14.9	3.96	11	6.09	10.8
C1-Benzofluoranthenes/Benzopyrenes	12.2	10.3	13.6	3.59	10.2	5.78	11.1
C1-Biphenyls	9.51	9.1	14.9	3.36	10.9	3.01	8.12
C1-Dibenzothiophenes	3.73	3.88	5.31	0.896	3.6	0.959	1.74
C1-Fluoranthenes/Pyrenes	29.7	24.2	27.7	6.67	18.4	12.3	18.4
C1-Fluorenes	13.9	12.7	20.6	3.3	13.5	3.26	10.5
C1-Naphthalenes	35.2	41.2	64.7	12.1	45.4	11.1	33.8
C2 Phenanthrenes/Anthracenes	46.9	44.3	54.3	11.9	37.4	12.9	29.2
C2-Benzo[a]anthracenes/Chrysenes	11.3	12.3	13.3	3.29	11	4.92	8.83
C2-Benzofluoranthenes/Benzopyrenes	4.4	4.47	5.84	1.42	4.24	2.05	4.37
C2-Biphenyls	9.28	8.81	13.1	2.78	8.19	2.07	5.91
C2-Dibenzothiophenes	7.1	7.35	8.39	2.17	5.93	2.47	4.82
C2-Fluoranthenes/Pyrenes	26	27.1	28.1	8.01	19	8.31	18.3
C2-Fluorenes	22	22.7	29	5.35	17.3	4.23	13.1
C2-Naphthalenes	78.8	82	124	24.5	84.7	18.8	64.5
C3-Benzo[a]anthracenes/Chrysenes	2.57	2.15	3.03	0.916	1.96	1.16	1.82
C3-Dibenzothiophenes	4.23	4.7	4	1.19	3.41	2.23	3.29
C3-Fluoranthenes/Pyrenes	8.12	10.8	11.8	3.12	7.67	2.75	7.15
C3-Fluorenes	20.3	23.7	24.7	4.83	15.5	4.17	11.4
C3-Naphthalenes	70	16.1	89.3	18.5	54.1	11.6	42.7
C3-Phenanthrenes/Anthracenes	26.1	25.1	30.9	6.74	20.5	8.58	17.7
C4-Benzo[a]anthracenes/Chrysenes	< 0.491	1.06	1.31	< 0.153	< 0.621	< 0.23	< 0.491
C4-Dibenzothiophenes	1.15	1.51	1.58	0.571	1.7	1.43	1.27
C4-Fluoranthenes/Pyrenes	0.971	1.83	1.86	0.607	1.19	0.796	1.51
C4-Naphthalenes	33.5	29.6	37.9	7.92	22.7	5.5	19.5
C4-Phenanthrenes/Anthracenes	74.9	68.4	80.5	23.7	75.7	109	57.5
Chrysene	14.748	9.758	10.848	2.518	8.218	10.948	9.558
Dibenz[a,h]anthracene	1.14	1.25	1.12(NDR)	0.361(NDR)	0.805(NDR)	0.642(NDR)	1.39
Dibenzothiophene	2.23	2.53	3.29	0.708	2.5	1	2.05
Fluoranthene	30.748	14.648	13.748	3.978	10.648	16.848	14.748
Fluorene	4.41	4.22	7.56	1.32	5.26	2.12	4.39
Indeno[1,2,3-cd]pyrene	5.58	4.88	4.25	0.961(NDR)	3.64	1.6	5.42
Naphthalene	9.28	11.4	16.2	3.33	12.9	5.36	10.8
Perylene	19.5	15.9	26.9	13.8	21.6	16.2	20.1
Phenanthrene	28.124	32.824	38.324	8.564	27.224	13.824	24.024
Pyrene	25.925	13.025	12.725	3.705	9.925	11.625	12.925
Retene	31	27.4	35.6	12	44.1	84.9	26

	SRKW19-7	SRKW19-8	SRKW19-9	SRKW19-10	SRKW19-11	SRKW19-12	SRKW19-13
1-Methylchrysene	0.976	1.45	1.21	3.19	1.41	0.956	1.57
1-Methylnaphthalene	10.1	22	19.9	36.8	12	7.45	23

	SRKW19-7	SRKW19-8	SRKW19-9	SRKW19-10	SRKW19-11	SRKW19-12	SRKW19-13
1-Methylphenanthrene	5.14	11.1	9.26	19.5	6.84	3.7	8.13
1,2-Dimethylnaphthalene	1.7	4.96	4.46	9.16	2.48	1.75	5.35
1,2,6-Trimethylphenanthrene	0.627	1.68	1.27	2.35(NDR)	1.05	0.448	1.28
1,4,6,7-Tetramethylnaphthalene	1.17(NDR)	2.82	2.46	5.13(NDR)	1.49(NDR)	1.43(NDR)	2.91(NDR)
1,7-Dimethylfluorene	0.794	1.94	1.55	3.35(NDR)	1.26	0.526(NDR)	1.47
1,7-Dimethylphenanthrene	3.58	6.66	5.45	12.6	4.74	1.87	5.27
1,8-Dimethylphenanthrene	0.383	0.955	0.674	2.02	0.624	0.272	0.886
2-Methylanthracene	0.438	0.831(NDR)	< 0.646	1.05(NDR)	1.42	0.851	1.37
2-Methylfluorene	1.68	2.64	2.22	5.43	1.99	0.695	1.96
2-Methylnaphthalene	16.5	30.4	27.2	48.9	18.8	10.8	33.5
2-Methylphenanthrene	7.72	16.1	13.6	28.6	10.4	4.88	13.1
2,3,5-Trimethylnaphthalene	6.31	16.2	14.6	30.1	8.42	5.47	16.4
2,3,6-Trimethylnaphthalene	7.19	15.3	13.3	28.6	9.03	5.41	15.7
2,4-Dimethyldibenzothiophene	0.504	0.817(NDR)	0.935(NDR)	1.64(NDR)	0.633(NDR)	0.481(NDR)	0.751
2,6-Dimethylnaphthalene	12.8	25	21.8	43.5	14.8	7.21	23.9
2,6-Dimethylphenanthrene	1.98	4.42	3.43	8.83	2.82	1.41(NDR)	3.46
2/3-Methyldibenzothiophenes	0.55	1.6	0.818(NDR)	2.48	0.914	0.65	1.42
3-Methylfluoranthene/Benzo[a]fluorene	6.36	13.2	9.77	22.2	11.1	6.995	11.355
3-Methylphenanthrene	5.84	13.1	10.3	23.3	7.55	3.62	9.7
3,6-Dimethylphenanthrene	1.97(NDR)	3.51(NDR)	3.01(NDR)	7.29(NDR)	2.49(NDR)	0.956(NDR)	2.6(NDR)
4,6-Dimethyldibenzothiophene	0.48	0.881(NDR)	0.651	1.7	0.681	0.427	0.69
5,9-Dimethylchrysene	1.37	2.22	1.85	4.96	2.12	1.4	2.09
5/6-Methylchrysene	0.787	0.889	0.716	1.92	0.838	0.611	0.963
7-Methylbenzo[a]pyrene	< 0.364	0.701	0.675	2.21	0.729	0.428	0.812
9/4-Methylphenanthrene	5.73	12.9	10.6	22.3	7.22	3.67	9.39
Acenaphthene	1.23	1.57	1.24	2.9	1.56	1.8	2.14(NDR)
Acenaphthylene	0.815	0.95	0.661(NDR)	1.59	1.31	3.13	1.58
Anthracene	2.32	2.12	1.65	3.85	3.96	1.95	3.31
Benz[a]anthracene	5.37(NDR)	7.82(NDR)	4.76(NDR)	12.4(NDR)	9.83(NDR)	7.53(NDR)	10.3(NDR)
Benzo[a]pyrene	5.09	6.99	4.85	12.1	9.14	7.91	11.7
Benzo[b]fluoranthene	7.15	8.72	6.07	18.3	9.98	7.57	13.4
Benzo[e]pyrene	5.97	7.72	5.81	15.9	8.87	6.04	10.9
Benzo[ghi]perylene	5.23	7.18	5.59	15.5	8.47	5.874	11.104
Benzo[j,k]fluoranthenes	4	5.92	4.12	9.87	7.96	7.06	10.6
Biphenyl	5.75	8.58	7.4	15.2	6.69	2.479	8.519
C1 Phenanthrenes/Anthracenes	24.9	53.2	43.7	93.6	33.5	16.7	41.7
C1-Acenaphthenes	< 0.163	< 0.369	< 0.277	0.32	< 0.18	< 0.13	< 0.233
C1-Benzo[a]anthracenes/Chrysenes	8.35	13.7	10.2	28.3	13.4	8.155	13.855
C1-Benzofluoranthenes/Benzopyrenes	8.97	14	9.7	31.5	14	10.079	18.279
C1-Biphenyls	7.18	12.8	11	23.4	8.05	3.79	12.7
C1-Dibenzothiophenes	2.08	4.44	2.27	3.18	2.78	1.67	3.84
C1-Fluoranthenes/Pyrenes	15.7	25.7	19	45.5	22.7	16.763	25.463
C1-Fluorenes	7.5	15	12.2	29.8	9.15	2.84	10.4
C1-Naphthalenes	26.5	52.4	47.1	85.7	30.8	18.2	56.5

	SRKW19-7	SRKW19-8	SRKW19-9	SRKW19-10	SRKW19-11	SRKW19-12	SRKW19-13
C2 Phenanthrenes/Anthracenes	22.7	42	35.6	85.5	28.6	11.881	33.781
C2-Benzo[a]anthracenes/Chrysenes	6.39	11.7	8.56	25.5	9.58	5.08	10.7
C2-Benzofluoranthenes/Benzopyrenes	4.04	5.18	4.33	14.2	5.1	1.97	6.6
C2-Biphenyls	4.79	10.2	8.29	17.2	5.66	3.391	9.451
C2-Dibenzothiophenes	4.33	7.71	6.19	14.1	5.34	4.139	5.679
C2-Fluoranthenes/Pyrenes	13.3	27.2	20.7	48.8	20.6	11.4	22.4
C2-Fluorenes	9.97	19.9	16	39	12.2	4.677	14.647
C2-Naphthalenes	48	97.5	89	178	56.1	27.2	94.6
C3-Benzo[a]anthracenes/Chrysenes	1.5	2.82	1.63	4.87	1.87	1.093	2.843
C3-Dibenzothiophenes	2.76	4.45	3.26	7.96	4.25	2.91	4.1
C3-Fluoranthenes/Pyrenes	5.47	11.1	6.99	17.6	7.08	5.62	10.3
C3-Fluorenes	9.13	19.2	15.4	36.9	12.7	3.6	14.34
C3-Naphthalenes	28.2	63.6	56.1	119	35.9	21.886	64.586
C3-Phenanthrenes/Anthracenes	13.5	25.9	21.1	46.3	17.7	7.19	18
C4-Benzo[a]anthracenes/Chrysenes	< 0.424	< 0.591	< 0.37	< 0.494	< 0.493	< 0.101	< 0.287
C4-Dibenzothiophenes	1.48	1.97	1.59	3.94	2.66	1.813	2.593
C4-Fluoranthenes/Pyrenes	0.601	1.86	1.36	4.47	2.02	1.63	2.26
C4-Naphthalenes	10.7	27.8	22.5	48.2	15.2	12.3	26.8
C4-Phenanthrenes/Anthracenes	51.7	81.8	64.4	144	66	105.694	65.694
Chrysene	8.458	11.648	8.298	21.648	14.348	9.494	16.664
Dibenz[a,h]anthracene	1.08(NDR)	1.34(NDR)	1.19(NDR)	2.69	1.84	1.14	1.82
Dibenzothiophene	1.7	2.85	2.44	5.3	2.31	1.02(NDR)	2.44
Fluoranthene	13.748	15.748	11.748	31.948	19.448	14.001	23.701
Fluorene	3.76	6.02	4.89	12.4	5.15	1.59	5.05
Indeno[1,2,3-cd]pyrene	3.83	5.95	4.08	11.5	7.28	5.66	9.73
Naphthalene	9.52	14.5	13.3	24.1	11.5	8.391	21.261
Perylene	20.1	26.3	24.6	65.1	25.4	38.2	20.1
Phenanthrene	18.124	32.424	27.824	62.624	24.924	12.64	28.74
Pyrene	12.325	15.925	11.125	29.725	19.125	15.021	22.821
Retene	27.4	36.1	31.2	62.1	29.6	81.7	26.5

	SRKW19-14	SRKW19-15	SRKW19-16	SRKW19-17	SRKW19-18	SRKW19-19	PTP2-PH
1-Methylchrysene	1.66	1.84	1.42	2.43	1.31	2.95	9.84
1-Methylnaphthalene	26.3	20.6	21.5	39	34.3	35.7	4.68
1-Methylphenanthrene	12.3	10.6	9.27	14.3	13	17.9	19.2
1,2-Dimethylnaphthalene	8.02	5.42	6.05	10.9	8.78	11.6	1.09
1,2,6-Trimethylphenanthrene	1.75	1.84	1.35	3.21	1.55	2.84	3.16
1,4,6,7-Tetramethylnaphthalene	7.3(NDR)	4.02(NDR)	5.45(NDR)	16.1(NDR)	5.58(NDR)	11.5(NDR)	2.59(NDR)
1,7-Dimethylfluorene	1.7(NDR)	1.48	1.19(NDR)	1.57	1.86	2.48	0.939(NDR)
1,7-Dimethylphenanthrene	6.66	8.69	5.53	9.05	6.71	10.3	11
1,8-Dimethylphenanthrene	1.03	1.44	0.896	1.58	1.11	1.93	2.41
2-Methylanthracene	1.88	0.985(NDR)	1.38	3.92	1.08	3.35	13.4
2-Methylfluorene	1.68	2.03	1.75	2.22	2.83	2.89	2.27

	SRKW19-14	SRKW19-15	SRKW19-16	SRKW19-17	SRKW19-18	SRKW19-19	PTP2-PH
2-Methylnaphthalene	31.1	23.8	27.2	45.1	44.2	47.1	6.77
2-Methylphenanthrene	14.2	13.2	13.1	15.7	19.1	24.1	26.1
2,3,5-Trimethylnaphthalene	34.2	22.2	24.1	58.6	28.5	51.8	7.03
2,3,6-Trimethylnaphthalene	23.8	17.7	19.1	39.1	26.3	35.3	6.53
2,4-Dimethyldibenzothiophene	0.826(NDR)	0.719(NDR)	0.838	0.581(NDR)	0.72(NDR)	1.5(NDR)	2.7
2,6-Dimethylnaphthalene	23.1	20.3	21	32.3	35.9	39	21.9
2,6-Dimethylphenanthrene	3.36	3.57	3.58	4.17	4.52	6.21	7.31
2/3-Methyldibenzothiophenes	0.978(NDR)	0.834(NDR)	1.47	1.54	2.08	2.81	3.23
3-Methylfluoranthene/Benzo[a]fluorene	10.855	11.9	9.095	10.655	11.355	20.355	77.955
3-Methylphenanthrene	10.2	9.66	9.87	12.5	14.7	17.9	20.7
3,6-Dimethylphenanthrene	2.93(NDR)	3.3(NDR)	2.62(NDR)	3.13(NDR)	3.64(NDR)	4.67(NDR)	5.56(NDR)
4,6-Dimethyldibenzothiophene	0.839(NDR)	0.756	0.794	0.636(NDR)	0.757(NDR)	1.62	2.49
5,9-Dimethylchrysene	2.22	2.52	2.46	2.72	2.01	3.74	7.61
5/6-Methylchrysene	1.03	1.05	0.947	1.12	1.04	1.83	6.06
7-Methylbenzo[a]pyrene	0.719	0.92	0.801	1.81	0.587	1.37	89.2
9/4-Methylphenanthrene	10.4	10.1	9.33	14.7	14.2	18.7	21.1
Acenaphthene	1.75(NDR)	1.33	1.7(NDR)	2.01	1.8(NDR)	3.23	4.38
Acenaphthylene	3.35	1.83	2.25	0.81	0.907	2.65	22.8
Anthracene	3.02	2.77	2.46	2.92	1.55	4	29.1
Benz[a]anthracene	8.74(NDR)	10.8(NDR)	6.93(NDR)	4.82	4.09(NDR)	16.3(NDR)	132
Benzo[a]pyrene	11.1	11.2	8.32	9.83	4.77	19.3	131
Benzo[b]fluoranthene	13.2	13.3	10.7	12	5.43	21.1	134
Benzo[e]pyrene	11.2	11.7	8.76	14.7	4.5	17.8	114
Benzo[ghi]perylene	13.804	12.3	11.404	12.504	5.264	18.704	96.504
Benzo[j,k]fluoranthenes	10.5	9.91	8.08	10.9	3.94	16.1	145
Biphenyl	7.179	6.7	6.929	7.609	8.899	10.309	2.659
C1 Phenanthrenes/Anthracenes	48.9	43.6	43	61.2	61.9	81.9	100
C1-Acenaphthenes	< 0.298	< 0.363	< 0.438	0.47	0.304	0.462	< 0.281
C1-Benzo[a]anthracenes/Chrysenes	14.055	15.5	12.855	15.955	11.555	23.755	96.455
C1-Benzofluoranthenes/Benzopyrenes	14.079	17.6	13.779	18.079	9.579	27.679	198.179
C1-Biphenyls	10.1	9.35	11.4	16.2	17.1	17.6	2.25
C1-Dibenzothiophenes	2.02	2.5	4.04	3.81	5.28	7.83	9.18
C1-Fluoranthenes/Pyrenes	25.663	27	21.063	24.163	21.163	45.963	181.963
C1-Fluorenes	8.94	11.7	9.26	12	14.8	15.8	6.22
C1-Naphthalenes	57.4	44.4	48.7	84.1	78.5	82.9	11.5
C2 Phenanthrenes/Anthracenes	36.781	43	32.381	45.181	41.881	62.981	77.781
C2-Benzo[a]anthracenes/Chrysenes	11.9	11.8	11.4	16.4	11.3	19.8	33.6
C2-Benzofluoranthenes/Benzopyrenes	4.92	8.74	4.59	4.03	2.46	6.68	19.39
C2-Biphenyls	8.741	7.37	11.201	17.501	16.401	16.601	3.251
C2-Dibenzothiophenes	9.209	7.35	6.959	8.769	6.719	14.109	24.209
C2-Fluoranthenes/Pyrenes	25.3	26.3	20.7	26.9	23.2	42.2	96.2
C2-Fluorenes	15.647	14.9	14.747	21.847	23.847	26.547	13.347
C2-Naphthalenes	111	94.7	90.8	149	140	168	65.3
C3-Benzo[a]anthracenes/Chrysenes	2.483	2.99	3.003	3.463	1.783	4.003	8.803

	SRKW19-14	SRKW19-15	SRKW19-16	SRKW19-17	SRKW19-18	SRKW19-19	PTP2-PH
C3-Dibenzothiophenes	5.74	4.19	5.68	4.99	4.69	10.5	20.6
C3-Fluoranthenes/Pyrenes	13.2	9.46	10.4	15.8	13.5	21.1	34.5
C3-Fluorenes	16.14	14.4	14.04	20.94	18.54	25.44	16.54
C3-Naphthalenes	119.686	85.1	90.786	204.686	112.686	178.686	29.486
C3-Phenanthrenes/Anthracenes	21.9	26.6	18.6	32	22.1	35.9	45.1
C4-Benzo[a]anthracenes/Chrysenes	< 0.336	< 0.499	< 0.265	2.35	0.391	< 0.309	2.74
C4-Dibenzothiophenes	2.973	1.69	2.933	2.933	1.833	5.543	11.873
C4-Fluoranthenes/Pyrenes	2.49	1.4	2.23	3.23	1.94	4.2	5.54
C4-Naphthalenes	69.9	38.5	49.6	141	51.8	104	21.6
C4-Phenanthrenes/Anthracenes	76.494	73.6	59.294	156.694	55.594	123.694	262.694
Chrysene	13.664	14.448	11.164	8.924	8.684	23.264	167.964
Dibenz[a,h]anthracene	2.04	2.37	1.62	2.68	0.816(NDR)	3.11	20.95
Dibenzothiophene	2.28	2.85	2.26	2.07(NDR)	2.92	3.78	5.13
Fluoranthene	21.701	25.048	17.001	7.671	10.301	34.301	232.901
Fluorene	3.54	5.04	3.51	3.7	5.18	5.67	5.8
Indeno[1,2,3-cd]pyrene	11.36	10.5	8.84	12.16	3.95	15.66	97.76
Naphthalene	24.661	16.3	20.161	26.561	22.761	26.561	13.361
Perylene	16.4	21.7	21.8	22.8	24.3	30.5	46.3
Phenanthrene	29.14	33.124	26.04	26.24	34.04	45.84	91.64
Pyrene	24.821	24.525	16.621	8.871	10.821	34.221	226.921
Retene	25.4	26.2	21.4	64.7	22.5	44.1	22.5

	PTP2-STH1	PTP2-STH1 (Duplicate)	PTP2-SI1	PG19-I5 (AXYS)	SH19-I5	PG19-F1 (AXYS)	SH19-A2
1-Methylchrysene	0.239	0.303	0.058	1.28	1.39	0.718	0.295
1-Methylnaphthalene	2.43	2.55	0.861	22.2	21.4	7.31	3.08
1-Methylphenanthrene	1.31	1.24	0.288	9.91	9.49	3.2	1.83
1,2-Dimethylnaphthalene	< 0.19	0.247(NDR)	< 0.33	5.29	4.65	0.89	0.664(NDR)
1,2,6-Trimethylphenanthrene	0.189	0.222	0.055	1.24	1.17	0.515(NDR)	0.237(NDR)
1,4,6,7-Tetramethylnaphthalene	0.513(NDR)	0.471(NDR)	< 0.203	2.71(NDR)	2.7(NDR)	1.52(NDR)	0.401(NDR)
1,7-Dimethylfluorene	0.164(NDR)	0.219(NDR)	< 0.162	1.91(NDR)	1.37	0.397	0.221(NDR)
1,7-Dimethylphenanthrene	0.81	0.98	0.181	5.92	6.25	1.96	1.46
1,8-Dimethylphenanthrene	0.081(NDR)	0.078(NDR)	< 0.0285	0.926	0.865	0.314(NDR)	0.182
2-Methylanthracene	0.287	0.223	< 0.0883	0.877	1.48	0.956	0.232(NDR)
2-Methylfluorene	0.351	0.323	0.078	2.11	2.38	0.691	0.37
2-Methylnaphthalene	4.68	4.73	1.63	31.6	32.7	5.9	5.51
2-Methylphenanthrene	1.93	1.99	0.459	14.9	15.2	4.06	2.07
2,3,5-Trimethylnaphthalene	1.36	1.28	0.357	15.3	14.6	3.65	1.56
2,3,6-Trimethylnaphthalene	1.5	1.55	0.313	14.9	15	3.6	1.77
2,4-Dimethyldibenzothiophene	0.103(NDR)	0.155(NDR)	< 0.0893	0.795(NDR)	0.59(NDR)	0.257(NDR)	0.233(NDR)
2,6-Dimethylnaphthalene	2.55	2.49	0.65	25.4	25	4.22	3
2,6-Dimethylphenanthrene	0.409	0.457(NDR)	0.086(NDR)	3.96	3.62	1.17	0.57
2/3-Methyldibenzothiophenes	0.265(NDR)	0.232(NDR)	0.1(NDR)	1.56	1.55	0.422(NDR)	0.428(NDR)

	PTP2-STH1	PTP2-STH1 (Duplicate)	PTP2-SI1	PG19-I5 (AXYS)	SH19-I5	PG19-F1 (AXYS)	SH19-A2
3-Methylfluoranthene/Benzo[a]fluorene	2.185(NDR)	2.065(NDR)	0.469	9.685	10.655	7.505(NDR)	2.21
3-Methylphenanthrene	1.43	1.34	0.367	11.1	11.2	3.19	1.62
3,6-Dimethylphenanthrene	0.302(NDR)	0.347(NDR)	0.093(NDR)	3.21(NDR)	2.59(NDR)	0.888(NDR)	0.468(NDR)
4,6-Dimethyldibenzothiophene	0.139(NDR)	0.174(NDR)	0.077(NDR)	0.738	0.625	0.312(NDR)	0.185(NDR)
5,9-Dimethylchrysene	0.323	0.437	0.068	2.08	2.04	1.01	0.455
5/6-Methylchrysene	0.123	0.145	< 0.0386	0.893	0.82	0.453	0.139
7-Methylbenzo[a]pyrene	< 0.283	0.215	< 0.12	0.784	0.685	< 0.235	0.169
9/4-Methylphenanthrene	1.04	1.07	0.292	10.4	10.3	3.25	1.37
Acenaphthene	2.14	2.17	1.14	1.67	1.31(NDR)	12.8	0.776
Acenaphthylene	0.397	0.365	0.514	0.827	1.48	1.37	0.411
Anthracene	1.06	1.04	0.625	2.07	2.86	1.74	0.993
Benz[a]anthracene	1.67	1.24(NDR)	0.684	5.41(NDR)	7.52(NDR)	5.41(NDR)	1.029 (NDR)
Benzo[a]pyrene	1.19	0.953	0.382	6.35	7.86	6.39	0.99
Benzo[b]fluoranthene	1.8	1.65(NDR)	0.656(NDR)	7.82	7.54	5.95	1.89
Benzo[e]pyrene	1.41	1.43	0.536	6.77	6.33	4.9	1.39
Benzo[ghi]perylene	1.404	1.484	0.511	7.284	6.794	5.064	1.33
Benzo[j,k]fluoranthenes	1.11	1.1	0.493	5.69	6.16	5.84	1.15
Biphenyl	2.049	2.039	0.819	8.259	8.089	1.729	2.146
C1 Phenanthrenes/Anthracenes	6	5.85	1.41	47.2	47.6	14.7	6.89
C1-Acenaphthenes	< 0.16	< 0.105	< 0.105	0.226	0.263	0.127	< 0.114
C1-Benzo[a]anthracenes/Chrysenes	2.015	2.175	0.548	11.655	12.055	6.325	2.56
C1-Benzofluoranthenes/Benzopyrenes	1.769	2.259	0	12.279	11.179	7.799	2.62
C1-Biphenyls	1.6	1.58	0.539	12.7	13.4	2.41	1.85
C1-Dibenzothiophenes	0.301	0.315	0.12	4.13	3.91	0.862	0.421
C1-Fluoranthenes/Pyrenes	6.663	4.843	1.333	19.463	22.063	13.963	5.12
C1-Fluorenes	1.42	1.5	0.397	12.6	10.9	3.12	1.7
C1-Naphthalenes	7.11	7.28	2.49	53.7	54.2	13.2	8.6
C2 Phenanthrenes/Anthracenes	4.191	4.451	0.876	35.781	32.781	10.981	5.74
C2-Benzo[a]anthracenes/Chrysenes	1.48	1.82	0.376	10.9	9.48	4.22	1.91
C2-Benzofluoranthenes/Benzopyrenes	0	0	0	3.2	3.53	1.14	0.899
C2-Biphenyls	1.151	1.011	0.304	9.621	9.801	1.931	1.161
C2-Dibenzothiophenes	1.029	0.989	0.258	5.299	5.159	3.009	1.5
C2-Fluoranthenes/Pyrenes	3.13	2.86	0.898	20.4	21.9	8.83	4.71
C2-Fluorenes	1.507	1.617	0.153	17.747	16.347	4.467	2.44
C2-Naphthalenes	8.21	8.64	2.14	97.4	92.9	16.7	11.508
C3-Benzo[a]anthracenes/Chrysenes	< 0.1	0.611	< 0.0727	2.203	1.693	0.943	0.791
C3-Dibenzothiophenes	1.28	1.12	0.63	3.89	3.69	2.57	1.25
C3-Fluoranthenes/Pyrenes	2.49	1.7	0.316	11	14.8	4.02	1.8
C3-Fluorenes	0.78	0.44	0	15.04	12.54	3.37	2.43
C3-Naphthalenes	6.176	6.096	1.116	61.086	60.586	14.786	7.52
C3-Phenanthrenes/Anthracenes	2.64	2.97	0.781	18.9	17.5	7.24	3.97
C4-Benzo[a]anthracenes/Chrysenes	< 0.0553	< 0.0731	< 0.043	1.25	0.755	< 0.113	< 0.0411
C4-Dibenzothiophenes	1.753	1.583	0.247	2.453	1.523	0.933	1.42

	PTP2-STH1	PTP2-STH1 (Duplicate)	PTP2-SI1	PG19-I5 (AXYS)	SH19-I5	PG19-F1 (AXYS)	SH19-A2
C4-Fluoranthenes/Pyrenes	0.669	0.743	0.145	2.33	2.8	0.915	0.976
C4-Naphthalenes	3.58	3.78	1.12	25.2	25.4	13.2	3.36
C4-Phenanthrenes/Anthracenes	53.894	69.394	6.204	61.194	59.694	267.694	70.3
Chrysene	2.734	2.364	0.811	9.864	13.264	7.084	3.67
Dibenz[a,h]anthracene	0.168(NDR)	0.218(NDR)	0.019(NDR)	1.24(NDR)	1.14(NDR)	0.87	0.241(NDR)
Dibenzothiophene	0.729	0.801	0.382(NDR)	2.54	2.24	1.01	0.578(NDR)
Fluoranthene	6.631	4.911	3.001	13.601	19.501	12.001	5.416
Fluorene	1.49	1.69	0.624	5.61	4.74	4.05	1.11
Indeno[1,2,3-cd]pyrene	0.689(NDR)	0.647(NDR)	0.335(NDR)	5.78	5.75	4.62	0.765
Naphthalene	5.271	4.531	3.811	14.761	17.661	25.261	4.485
Perylene	7.41	7.99	1.96	23.7	19.2	19.7	9.02
Phenanthrene	8.8	9.28	2.86	28.74	31.74	11.34	7.495
Pyrene	5.581	4.531	2.311	13.021	19.721	12.321	4.704
Retene	44.6	59.7	3.4	28.2	25.7	247	59.8

	SH19-P6	SH19-P6 (AXYS) (Duplicate)	SH19-R15	SH19-R30	PG19-A4 (AXYS)	PG19-G6 (AXYS)	PG19-M4 (AXYS)
1-Methylchrysene	0.623	0.667	0.589	1.01	1.04	0.621	1.29
1-Methylnaphthalene	10.9	10.4	8.89	19.5	14	8.76	17.6
1-Methylphenanthrene	5.64	6.16	5.89	9.58	8.27	4.89	11.2
1,2-Dimethylnaphthalene	2.71	2.53	2.72	4.7	3.69	2.04	4.47
1,2,6-Trimethylphenanthrene	0.718	0.751	0.56	1.01	0.9	0.577	1.11
1,4,6,7-Tetramethylnaphthalene	1.27(NDR)	1.32(NDR)	1.38	2.33(NDR)	1.81	1	2.44(NDR)
1,7-Dimethylfluorene	0.893	0.966	0.954	1.64	1.35	0.64(NDR)	1.55
1,7-Dimethylphenanthrene	3.38	3.67	2.8	5.06	4.42	2.78	5.55
1,8-Dimethylphenanthrene	0.376	0.532	0.492	0.845	0.73	0.474	0.888
2-Methylanthracene	0.307	0.663	0.619	0.859	0.952	0.629	1.23
2-Methylfluorene	1.34	1.09	1.06	1.88	1.85	1.15	1.95
2-Methylnaphthalene	16.6	16	12.3	26.6	20.7	14.4	25.1
2-Methylphenanthrene	6.62	8.34	7.05	13.7	11.8	6.89	15.4
2,3,5-Trimethylnaphthalene	7.29	6.85	7.47	14	10.5	5.5	13.4
2,3,6-Trimethylnaphthalene	7.57	7.1	7.03	13.2	10.3	6.02	12.8
2,4-Dimethyldibenzothiophene	0.364(NDR)	0.417	0.414	0.581(NDR)	0.585	0.394(NDR)	0.862(NDR)
2,6-Dimethylnaphthalene	12.8	12.3	10.7	21.2	16.7	10.1	20.3
2,6-Dimethylphenanthrene	1.88	1.83	1.73	3.53	2.64	1.39	3.56
2/3-Methyldibenzothiophenes	1.22	1.31	0.859	1.18	1.02	1.08	1.43
3-Methylfluoranthene/Benzo[a]fluorene	5.66	5.62	5.31	8.99	8.78	5.13	10.4
3-Methylphenanthrene	5.38	6.18	5.96	10.2	8.42	4.56	11.4
3,6-Dimethylphenanthrene	1.88(NDR)	1.72(NDR)	1.68(NDR)	3.04(NDR)	2.5(NDR)	1.33(NDR)	3.1(NDR)
4,6-Dimethyldibenzothiophene	0.389	0.391	0.427(NDR)	0.606(NDR)	0.608	0.362	0.842(NDR)
5,9-Dimethylchrysene	0.998	0.957	0.889	1.29	1.49	0.927	1.82

	SH19-P6	SH19-P6 (AXYS) (Duplicate)	SH19-R15	SH19-R30	PG19-A4 (AXYS)	PG19-G6 (AXYS)	PG19-M4 (AXYS)
5/6-Methylchrysene	0.406	0.413	0.375	0.561	0.623	0.328	0.798
7-Methylbenzo[a]pyrene	0.284	0.233	0.285	0.375	0.512	0.235	0.797
9/4-Methylphenanthrene	5.26	6.04	6.05	10.4	8.7	4.32	10.9
Acenaphthene	1.15	1.08	0.853	1.54	1.71	1.21	1.73
Acenaphthylene	0.48	0.546	0.452	0.594	0.999	0.622	1.06
Anthracene	1.25	1.54	0.861	1.54	2.93	2.21	2.44
Benz[a]anthracene	3.449(NDR)	2.509(NDR)	2.309(NDR)	5.029(NDR)	6.369(NDR)	3.189(NDR)	7.139(NDR)
Benzo[a]pyrene	3.25	2.96	2.7	5.01	6.95	3.26	8.2
Benzo[b]fluoranthene	4.96	3.65	3.52	5.73	7.29	3.79	8.52
Benzo[e]pyrene	4.36	3.04	2.6	5.07	6.21	3.05	6.99
Benzo[ghi]perylene	3.6	3.37	2.86	5.02	6.8	3.68	7.96
Benzo[j,k]fluoranthenes	3.51	2.66	2.27	4.44	5.72	2.79	7.28
Biphenyl	5.156	4.896	3.506	6.996	6.326	4.556	7.266
C1 Phenanthrenes/Anthracenes	23.2	27.4	25.6	44.7	38.2	21.3	50.2
C1-Acenaphthenes	< 0.132	< 0.134	< 0.185	0.236	< 0.177	0.103	0.222
C1-Benzo[a]anthracenes/Chrysenes	7	6.36	5.32	9.88	0.617	6.26	11.7
C1-Benzofluoranthenes/Benzopyrenes	7.33	6.63	5.73	9.08	10.9	6.36	12.7
C1-Biphenyls	7.02	6.69	5.63	10.5	8.98	6.27	10.7
C1-Dibenzothiophenes	2.8	2.86	2.27	3.38	3.31	2.11	4.26
C1-Fluoranthenes/Pyrenes	12.1	11.7	10.4	18.1	17.8	10.3	21.7
C1-Fluorenes	6.86	6.6	6.1	11.6	9.39	5.53	11.5
C1-Naphthalenes	27.5	26.3	21.2	46.1	34.7	23.2	42.7
C2 Phenanthrenes/Anthracenes	20	19.4	17.3	30.7	26.4	15.4	32.1
C2-Benzo[a]anthracenes/Chrysenes	4.55	4.8	5.03	7.02	7.93	4.87	8.88
C2-Benzofluoranthenes/Benzopyrenes	2.126	1.786	1.306	2.196	3.246	2.266	3.516
C2-Biphenyls	4.981	4.681	4.361	8.161	6.541	4.341	8.641
C2-Dibenzothiophenes	2.94	3.08	3.23	4.82	5.23	3.21	6.78
C2-Fluoranthenes/Pyrenes	11.5	11.7	11.5	16.7	18.3	10.1	21
C2-Fluorenes	9.06	10.9	9.53	17.5	13.1	7.11	17.8
C2-Naphthalenes	48.408	46.008	40.808	80.608	63.908	37.708	80.708
C3-Benzo[a]anthracenes/Chrysenes	0.865	1.13	0.584	1.13	1.21	0.633	1.11
C3-Dibenzothiophenes	2.16	2.59	1.7	2.65	3.42	2.56	4.3
C3-Fluoranthenes/Pyrenes	4.67	7.02	5.38	5.61	8.55	4.24	9.45
C3-Fluorenes	7.73	9.4	9.72	15.6	12.1	6.42	16
C3-Naphthalenes	31	29	29.4	53.7	41.7	23.6	53.5
C3-Phenanthrenes/Anthracenes	10.5	11	9.48	16.6	14.9	8.29	18
C4-Benzo[a]anthracenes/Chrysenes	< 0.127	0.225	< 0.105	0.272	0.203	0.207	0.596
C4-Dibenzothiophenes	0.971	1.1	0.739	1.2	1.62	1.58	1.48
C4-Fluoranthenes/Pyrenes	1.47	1.48	1.38	2.6	2.75	1.7	2.79
C4-Naphthalenes	9.63	10.8	12	21.4	16.8	8.45	23.4
C4-Phenanthrenes/Anthracenes	74.6	47.5	31.9	51.3	51.3	44.6	59.2
Chrysene	9.03	5.31	4.97	8.69	9.27	7.62	11.1

	SH19-P6	SH19-P6 (AXYS) (Duplicate)	SH19-R15	SH19-R30	PG19-A4 (AXYS)	PG19-G6 (AXYS)	PG19-M4 (AXYS)
Dibenz[a,h]anthracene	0.608(NDR)	0.586(NDR)	0.526(NDR)	0.943(NDR)	1.233	0.623(NDR)	1.423
Dibenzothiophene	1.61	1.55	1.26	2.28	2.24	1.47	2.63
Fluoranthene	14.556	8.146	6.816	13.456	15.256	8.546	18.056
Fluorene	3.41	2.91	2.5	5.15	4.66	3	4.74
Indeno[1,2,3-cd]pyrene	2.937(NDR)	2.537	2.287	4.237	5.717	2.627(NDR)	6.667
Naphthalene	7.775	7.155	5.535	11.705	9.735	7.615	11.705
Perylene	28.3	13.8	17.3	17.1	16.9	12	18.9
Phenanthrene	16.945	16.345	14.745	26.845	24.645	14.445	29.045
Pyrene	12.374	7.784	6.444	12.974	15.474	8.334	17.574
Retene	54.6	29	16.4	24.9	25.3	28	26.5

Table 15. Sediment samples from Sand Heads (SH) and Point Grey (PG) disposal sites, and inside and outside Southern Resident Killer Whale (SRKW) Critical Habitat sites were analyzed for perfluorinated organics (PFAS). All values are reported in ng/g dry weight. < = values below reporting limit (RL).

	SRKW19-1	SRKW19-2	SRKW19-3	SRKW19-4	SRKW19-5	SRKW19-6	SRKW19-7	SRKW19-8	SRKW19-9	SRKW19-10
PFBA	< 0.304	< 0.308	< 0.314	< 0.363	< 0.287	< 0.38	< 0.333	< 0.419	< 0.403	< 0.429
PFPeA	< 0.152	< 0.154	< 0.157	< 0.181	< 0.143	< 0.19	< 0.167	< 0.21	< 0.202	< 0.215
PFHxA	< 0.076	< 0.0769	< 0.0784	< 0.0907	< 0.0717	< 0.0949	< 0.0833	< 0.105	< 0.101	< 0.107
PFHpA	< 0.076	< 0.0769	< 0.0784	< 0.0907	< 0.0717	< 0.0949	< 0.0833	< 0.105	< 0.101	< 0.107
PFOA	< 0.076	< 0.0769	< 0.0784	< 0.0907	< 0.0717	< 0.0949	< 0.0833	< 0.105	< 0.101	< 0.107
PFNA	< 0.076	< 0.0769	< 0.0784	< 0.0907	< 0.0717	< 0.0949	< 0.0833	< 0.105	< 0.101	< 0.107
PFDA	< 0.076	< 0.0769	< 0.0784	< 0.0907	< 0.0717	< 0.0949	< 0.0833	< 0.105	< 0.101	< 0.107
PFUnA	< 0.076	< 0.0769	< 0.0784	< 0.0907	< 0.0717	0.136	< 0.0833	0.138	0.158	0.167(NDR)
PFDoA	< 0.076	< 0.0769	< 0.0784	< 0.0907	< 0.0717	< 0.0949	< 0.0833	< 0.105	< 0.101	< 0.107
PFTrDA	< 0.076	< 0.0769	< 0.0784	< 0.0907	< 0.0717	< 0.0949	< 0.0833	< 0.105	< 0.101	< 0.107
PFTeDA	< 0.076	< 0.0769	< 0.0784	< 0.0907	< 0.0717	< 0.0949	< 0.0833	< 0.105	< 0.101	< 0.107
PFBS	< 0.076	< 0.0769	< 0.0784	< 0.0907	< 0.0717	< 0.0949	< 0.0833	< 0.105	< 0.101	< 0.107
PFPeS	< 0.076	< 0.0769	< 0.0784	< 0.0907	< 0.0717	< 0.0949	< 0.0833	< 0.105	< 0.101	< 0.107
PFHxS	< 0.076	< 0.0769	< 0.0784	< 0.0907	< 0.0717	< 0.0949	< 0.0833	< 0.105	< 0.101	< 0.107
PFHpS	< 0.076	< 0.0769	< 0.0784	< 0.0907	< 0.0717	< 0.0949	< 0.0833	< 0.105	< 0.101	< 0.107
PFOS	< 0.076	< 0.0769	< 0.0784	< 0.0907	< 0.0717	0.122	< 0.0833	0.147	< 0.101	0.184
PFNS	< 0.076	< 0.0769	< 0.0784	< 0.0907	< 0.0717	< 0.0949	< 0.0833	< 0.105	< 0.101	< 0.107
PFDS	< 0.076	< 0.0769	< 0.0784	< 0.0907	< 0.0717	< 0.0949	< 0.0833	< 0.105	< 0.101	< 0.107
PFDoS	< 0.076	< 0.0769	< 0.0784	< 0.0907	< 0.0717	< 0.0949	< 0.0833	< 0.105	< 0.101	< 0.107
4:2 FTS	< 0.304	< 0.308	< 0.314	< 0.363	< 0.287	< 0.38	< 0.333	< 0.419	< 0.403	< 0.429
6:2 FTS	< 0.547	< 0.554	< 0.564	< 0.653	< 0.517	< 0.683	< 0.6	< 0.755	< 0.726	< 0.773
8:2 FTS	< 0.304	< 0.308	< 0.314	< 0.363	< 0.287	< 0.38	< 0.333	< 0.419	< 0.403	< 0.429
PFOSA	< 0.076	< 0.0769	< 0.0784	< 0.0907	< 0.0717	< 0.0949	< 0.0833	< 0.105	< 0.101	< 0.107
N-MeFOSA	< 0.0874	< 0.0885	< 0.0902	< 0.104	< 0.0825	< 0.109	< 0.0958	< 0.121	< 0.116	< 0.123
N-EtFOSA	< 0.19	< 0.192	< 0.196	< 0.227	< 0.179	< 0.237	< 0.208	< 0.262	< 0.252	< 0.268
MeFOSAA	< 0.076	< 0.0769	< 0.0784	< 0.0907	< 0.0717	< 0.0949	< 0.0833	< 0.105	< 0.101	< 0.107
EtFOSAA	< 0.152	< 0.154	< 0.157	< 0.181	< 0.143	< 0.19	< 0.167	< 0.21	< 0.202	< 0.215
N-MeFOSE	< 0.76	< 0.769	< 0.784	< 0.907	< 0.717	< 0.949	< 0.833	< 1.05	< 1.01	< 1.07
N-EtFOSE	< 0.57	< 0.577	< 0.588	< 0.68	< 0.538	< 0.712	< 0.625	< 0.786	< 0.757	< 0.805
HFPO-DA	< 0.304	< 0.308	< 0.314	< 0.363	< 0.287	< 0.38	< 0.333	< 0.419	< 0.403	< 0.429
ADONA	< 0.304	< 0.308	< 0.314	< 0.363	< 0.287	< 0.38	< 0.333	< 0.419	< 0.403	< 0.429
9Cl-PF3ONS	< 0.304	< 0.308	< 0.314	< 0.363	< 0.287	< 0.38	< 0.333	< 0.419	< 0.403	< 0.429
11Cl-PF3OUdS	< 0.304	< 0.308	< 0.314	< 0.363	< 0.287	< 0.38	< 0.333	< 0.419	< 0.403	< 0.429

	SRKW19-10 (Duplicate)	SRKW19-11	SRKW19-12	SRKW19-13	SRKW19-14	SRKW19-15	SRKW19-16	SRKW19-17	SRKW19-18	SRKW19-19
PFBA	< 0.415	< 0.369	< 0.37	< 0.504	< 0.604	< 0.568	< 0.571	< 0.372	< 0.458	< 0.602
PFPeA	< 0.207	< 0.185	< 0.185	< 0.252	< 0.302	< 0.284	< 0.286	< 0.186	< 0.229	< 0.301
PFHxA	< 0.104	< 0.0923	< 0.0925	< 0.126	< 0.151	< 0.142	< 0.143	< 0.0931	< 0.115	< 0.151
PFHpA	< 0.104	< 0.0923	< 0.0925	< 0.126	< 0.151	< 0.142	< 0.143	< 0.0931	< 0.115	< 0.151
PFOA	< 0.104	< 0.0923	< 0.0925	< 0.126	< 0.151	< 0.142	< 0.143	< 0.0931	< 0.115	< 0.151
PFNA	< 0.104	< 0.0923	< 0.0925	< 0.126	0.154	0.189	< 0.143	< 0.0931	< 0.115	0.188
PFDA	< 0.104	< 0.0923	< 0.0925	< 0.126	< 0.151	0.175	< 0.143	< 0.0931	< 0.115	< 0.151
PFUnA	0.151	0.093	< 0.0925	0.132	0.169	0.298	< 0.143	< 0.0931	< 0.115	0.238
PFDoA	< 0.104	< 0.0923	< 0.0925	< 0.126	< 0.151	< 0.142	< 0.143	< 0.0931	< 0.115	< 0.151
PFTrDA	< 0.104	< 0.0923	< 0.0925	< 0.126	< 0.151	< 0.142	< 0.143	< 0.0931	< 0.115	< 0.151
PFTeDA	< 0.104	< 0.0923	< 0.0925	< 0.126	< 0.151	< 0.142	< 0.143	< 0.0931	< 0.115	< 0.151
PFBS	< 0.104	< 0.0923	< 0.0925	< 0.126	< 0.151	< 0.142	< 0.143	< 0.0931	< 0.115	< 0.151
PFPeS	< 0.104	< 0.0923	< 0.0925	< 0.126	< 0.151	< 0.142	< 0.143	< 0.0931	< 0.115	< 0.151
PFHxS	< 0.104	< 0.0923	< 0.0925	< 0.126	< 0.151	< 0.142	< 0.143	< 0.0931	< 0.115	< 0.151
PFHpS	< 0.104	< 0.0923	< 0.0925	< 0.126	< 0.151	< 0.142	< 0.143	< 0.0931	< 0.115	< 0.151
PFOS	0.107	< 0.0923	< 0.0925	0.144	0.212	0.405	0.155	< 0.0931	< 0.115	0.298
PFNS	< 0.104	< 0.0923	< 0.0925	< 0.126	< 0.151	< 0.142	< 0.143	< 0.0931	< 0.115	< 0.151
PFDS	< 0.104	< 0.0923	< 0.0925	< 0.126	< 0.151	< 0.142	< 0.143	< 0.0931	< 0.115	< 0.151
PFDoS	< 0.104	< 0.0923	< 0.0925	< 0.126	< 0.151	< 0.142	< 0.143	< 0.0931	< 0.115	< 0.151
4:2 FTS	< 0.415	< 0.369	< 0.37	< 0.504	< 0.604	< 0.568	< 0.571	< 0.372	< 0.458	< 0.602
6:2 FTS	3.71	< 0.664	< 0.333	< 0.453	< 0.544	< 1.02	< 0.514	< 0.335	< 0.413	< 0.542
8:2 FTS	< 0.415	< 0.369	< 0.37	< 0.504	< 0.604	< 0.568	< 0.571	< 0.372	< 0.458	< 0.602
PFOSA	< 0.104	< 0.0923	< 0.0925	< 0.126	< 0.151	< 0.142	< 0.143	< 0.0931	< 0.115	< 0.151
N-MeFOSA	< 0.119	< 0.106	< 0.106	< 0.145	< 0.174	< 0.163	< 0.164	< 0.107	< 0.132	< 0.173
N-EtFOSA	< 0.259	< 0.231	< 0.231	< 0.315	< 0.377	< 0.355	< 0.357	< 0.233	< 0.287	< 0.376
MeFOSAA	< 0.104	< 0.0923	< 0.0925	< 0.126	< 0.151	< 0.142	< 0.143	< 0.0931	< 0.115	< 0.151
EtFOSAA	< 0.207	< 0.185	< 0.0925	< 0.126	< 0.151	< 0.284	< 0.143	< 0.0931	< 0.115	< 0.151
N-MeFOSE	< 1.04	< 0.923	< 0.925	< 1.26	< 1.51	< 1.42	< 1.43	< 0.931	< 1.15	< 1.51
N-EtFOSE	< 0.778	< 0.692	< 0.694	< 0.944	< 1.13	< 1.07	< 1.07	< 0.698	< 0.86	< 1.13
HFPO-DA	< 0.415	< 0.369	< 0.37	< 0.504	< 0.604	< 0.568	< 0.571	< 0.372	< 0.458	< 0.602
ADONA	< 0.415	< 0.369	< 0.37	< 0.504	< 0.604	< 0.568	< 0.571	< 0.372	< 0.458	< 0.602
9Cl-PF3ONS	< 0.415	< 0.369	< 0.37	< 0.504	< 0.604	< 0.568	< 0.571	< 0.372	< 0.458	< 0.602
11Cl-PF3OUdS	< 0.415	< 0.369	< 0.37	< 0.504	< 0.604	< 0.568	< 0.571	< 0.372	< 0.458	< 0.602

	PTP2-PH	PTP2-GINP1	PTP2-EH2	PTP2-STH1	PTP2-STH1 (Duplicate)	PTP2-SI1
PFBA	< 0.546	< 0.364	< 0.374	< 0.4	< 0.395	< 0.419
PFPeA	< 0.273	< 0.182	< 0.187	< 0.2	< 0.198	< 0.209
PFHxA	< 0.137	< 0.0911	< 0.0935	< 0.1	< 0.0988	< 0.105
PFHpA	< 0.137	< 0.0911	< 0.0935	< 0.1	< 0.0988	< 0.105
PFOA	< 0.137	< 0.0911	< 0.0935	< 0.1	< 0.0988	< 0.105
PFNA	< 0.137	< 0.0911	< 0.0935	< 0.1	< 0.0988	< 0.105
PFDA	< 0.137	< 0.0911	< 0.0935	< 0.1	< 0.0988	< 0.105
PFUnA	< 0.137	< 0.0911	< 0.0935	< 0.1	< 0.0988	< 0.105
PFDoA	< 0.137	< 0.0911	< 0.0935	< 0.1	< 0.0988	< 0.105
PFTrDA	< 0.137	< 0.0911	< 0.0935	< 0.1	< 0.0988	< 0.105
PFTeDA	< 0.137	< 0.0911	< 0.0935	< 0.1	< 0.0988	< 0.105
PFBS	< 0.137	< 0.0911	< 0.0935	< 0.1	< 0.0988	< 0.105
PFPeS	< 0.137	< 0.0911	< 0.0935	< 0.1	< 0.0988	< 0.105
PFHxS	< 0.137	< 0.0911	< 0.0935	< 0.1	< 0.0988	< 0.105
PFHpS	< 0.137	< 0.0911	< 0.0935	< 0.1	< 0.0988	< 0.105
PFOS	< 0.137	< 0.0911	< 0.0935	< 0.1	< 0.0988	< 0.105
PFNS	< 0.137	< 0.0911	< 0.0935	< 0.1	< 0.0988	< 0.105
PFDS	< 0.137	< 0.0911	< 0.0935	< 0.1	< 0.0988	< 0.105
PFDoS	< 0.137	< 0.0911	< 0.0935	< 0.1	< 0.0988	< 0.105
4:2 FTS	< 0.546	< 0.364	< 0.374	< 0.4	< 0.395	< 0.419
6:2 FTS	< 0.492	< 0.328	< 0.337	< 0.36	< 0.356	< 0.377
8:2 FTS	< 0.546	< 0.364	< 0.374	< 0.4	< 0.395	< 0.419
PFOSA	< 0.137	< 0.0911	< 0.0935	< 0.1	< 0.0988	< 0.105
N-MeFOSA	< 0.157	< 0.105	< 0.108	< 0.115	< 0.114	< 0.12
N-EtFOSA	< 0.341	< 0.228	< 0.234	< 0.25	< 0.247	< 0.262
MeFOSAA	< 0.137	< 0.0911	< 0.0935	< 0.1	< 0.0988	< 0.105
EtFOSAA	< 0.137	< 0.0911	< 0.0935	< 0.1	< 0.0988	< 0.105
N-MeFOSE	< 1.37	< 0.911	< 0.935	< 1	< 0.988	< 1.05
N-EtFOSE	< 1.02	< 0.683	< 0.701	< 0.751	< 0.741	< 0.786
HFPO-DA	< 0.546	< 0.364	< 0.374	< 0.4	< 0.395	< 0.419
ADONA	< 0.546	< 0.364	< 0.374	< 0.4	< 0.395	< 0.419
9Cl-PF3ONS	< 0.546	< 0.364	< 0.374	< 0.4	< 0.395	< 0.419
11Cl-PF3OUdS	< 0.546	< 0.364	< 0.374	< 0.4	< 0.395	< 0.419

Table 16. Sediment samples from Sand Heads (SH) and Point Grey (PG) disposal sites, and inside and outside Southern Resident Killer Whale (SRKW) Critical Habitat sites were analyzed for pharmaceutical and personal care products (PPCPs). All values are reported in ng/g dry weight. < = values below reporting limit (RL).

	SRKW19-1	SRKW19-2	SRKW19-3	SRKW19-3 (Duplicate)	SRKW19-4	SRKW19-5	SRKW19-6	SRKW19-7
List 1 - Acid Extraction in Positive Ionization								
Acetaminophen	< 14.5	< 10.9	< 16.4	< 15.4	< 20.4	< 7.22	< 17	< 14.6
Azithromycin								
Caffeine	< 7.39	< 7.37	< 7.63	< 31.8	< 5.4	< 7.22	< 5.33	< 5.82
Carbadox					< 3.34			< 7.37
Carbamazepine	< 1.03	< 1.31	< 0.783	< 0.75	< 0.54	< 0.722	< 0.533	< 0.779
Cefotaxime								
Ciprofloxacin								
Clarithromycin								
Clinafloxacin								
Cloxacillin					< 12.2			< 26
Dehydronifedipine					< 0.924			< 2.28
Digoxigenin					< 50.3			< 129
Digoxin					< 7.59			< 18.1
Diltiazem					< 0.416			< 1.3
1,7-Dimethylxanthine	< 29.6	< 29.5	< 36.9	< 96.6	< 29.4	< 28.9	< 21.3	< 23.3
Diphenhydramine					< 0.579			< 1.11
Enrofloxacin								
Erythromycin-H2O					< 1.42			< 3.14
Flumequine					< 0.54			< 0.582
Fluoxetine					< 15.5			< 26.8
Lincomycin					< 1.66			< 1.16
Lomefloxacin								
Miconazole					< 0.87			< 2.09
Norfloxacin								
Norgestimate					< 28.2			< 69.6
Ofloxacin								
Ormetoprim					< 1.97			< 4.31
Oxacillin					< 6.15			< 16.7
Oxolinic Acid					< 0.436			< 1.14
Penicillin G					< 7.09			< 27.5
Penicillin V					< 7.21			< 12
Roxithromycin								

	SRKW19-1	SRKW19-2	SRKW19-3	SRKW19-3 (Duplicate)	SRKW19-4	SRKW19-5	SRKW19-6	SRKW19-7
Sarafloxacin								
Sulfachloropyridazine	< 5.3	< 9.71	< 11.3	< 13.3	< 6.99	< 0.722	< 0.533	< 14
Sulfadiazine	< 1.61	< 2.03	< 1.98	< 1.99	< 1.48	< 0.84	< 0.566	< 1.7
Sulfadimethoxine	< 4.17	< 7.55	< 5.91	< 4.87	< 4.74	< 1.67	< 2.33	< 5.65
Sulfamerazine	< 0.296	< 4.75	< 4.25	< 5.26	< 2.86	< 2.39	< 0.213	< 6.71
Sulfamethazine	< 11.3	< 23.1	< 11.1	< 17.8	< 10.1	< 6.58	< 0.71	< 0.776
Sulfamethizole	< 8.41	< 4.17	< 7.97	< 4.85	< 5.01	< 2.85	< 2.82	< 6.92
Sulfamethoxazole	< 2.95	< 5.29	< 3.98	< 0.3	< 3.82	< 3.34	< 0.213	< 5.49
Sulfanilamide								
Sulfathiazole	< 4.75	< 4.39	< 5.93	< 5.39	< 3.6	< 3.1	< 2.37	< 5.96
Thiabendazole	< 7.65	< 9.04		< 3.9	< 1.62		< 1.04	< 2.43
Trimethoprim					< 0.54			< 10.6
Tylosin								
Virginiamycin M1					< 2.18			< 4
List 2 - Tetracyclines in Positive Ionization								
Anhydrochlortetracycline [ACTC]								
Anhydrotetracycline [ATC]								
Chlortetracycline [CTC]								
Demeclocycline								
Doxycycline								
4-Epianhydrochlortetracycline [EACTC]								
4-Epianhydrotetracycline [EATC]								
4-Epichlortetracycline [ECTC]								
4-Epioxytetracycline [EOTC]								
4-Epitetracycline [ETC]								
Isochlortetracycline [ICTC]								
Minocycline								
Oxytetracycline [OTC]								
Tetracycline [TC]								
List 3 - Acid Extraction in Negitive Ionization								
Bisphenol A	< 2.96	< 2.95	< 3.05	< 3	< 2.16	< 2.89	< 2.13	5.69
Furosemide	< 1.97	< 1.97	< 2.03	< 2	< 1.44	< 1.92	< 1.42	< 1.55
Gemfibrozil	< 0.394	< 0.393	< 0.407	< 0.4	< 0.288	< 0.385	< 0.284	< 0.31
Glipizide	< 0.394	< 0.393	< 0.407	< 0.4	< 0.288	< 0.385	< 0.284	< 0.31
Glyburide	< 0.394	< 0.393	< 0.407	< 0.4	< 0.288	< 0.385	< 0.284	< 0.31
Hydrochlorothiazide	< 4.34	< 4.32	< 4.48	< 4.4	< 3.17	< 4.23	< 3.13	< 3.41

	SRKW19-1	SRKW19-2	SRKW19-3	SRKW19-3 (Duplicate)	SRKW19-4	SRKW19-5	SRKW19-6	SRKW19-7
2-Hydroxy-ibuprofen	< 1.97	< 1.97	< 2.03	< 2	< 1.44	< 1.92	< 1.42	< 1.55
Ibuprofen	< 1.97	< 1.97	< 2.03	< 2	< 1.44	< 1.92	< 1.42	< 1.55
Naproxen	< 0.986	< 0.983	< 1.02	< 1	< 0.72	< 0.962	< 0.71	< 0.776
Triclocarban	0.801	0.955	0.476	0.32	1.16	0.257	1.65	1.99
Triclosan	< 2.96	< 2.95	< 3.05	< 3	< 2.16	< 2.89	< 2.13	2.98
Warfarin	< 0.197	< 0.197	< 0.203	< 0.2	< 0.144	< 0.192	< 0.142	< 0.155
List 4 - Basic Extraction in Positive Ionization								
Albuterol	< 0.147	< 0.147	< 0.153	< 0.15	< 0.106	< 0.145	< 0.108	< 0.122
Amphetamine	< 0.734	< 0.737	< 0.767	< 0.75	< 0.529	< 0.725	< 0.539	< 0.61
Atenolol	< 0.293	< 0.295	< 0.307	< 0.3	< 0.211	< 0.29	< 0.216	< 0.244
Atorvastatin	< 0.734	< 0.737	< 0.767	< 0.75	< 0.529	< 0.725	< 0.539	< 0.61
Cimetidine	< 0.293	< 0.623	< 0.307	< 0.3	< 0.211	< 0.29	< 0.216	< 0.244
Clonidine	< 0.734	< 0.737	< 0.767	< 0.75	< 0.529	< 0.725	< 0.539	< 0.61
Codeine	< 1.47	< 1.47	< 1.53	< 1.5	< 1.06	< 1.45	< 1.08	< 1.22
Cotinine	< 0.734	< 0.737	< 0.767	< 0.75	< 0.529	< 0.725	< 0.539	< 0.61
Enalapril	< 0.147	< 0.147	< 0.153	< 0.15	< 0.106	< 0.145	< 0.108	< 0.122
Hydrocodone	< 0.734	< 0.737	< 0.767	< 0.75	< 0.529	< 0.725	< 0.539	< 0.61
Metformin	< 1.47	< 1.47	< 1.53	< 1.5	< 1.06	< 1.74	< 1.08	< 1.22
Oxycodone	< 0.293	< 0.295	< 0.307	< 0.3	< 0.211	< 0.29	< 0.216	< 0.244
Ranitidine	< 0.293	< 0.295	< 0.307	< 0.3	< 0.211	< 0.29	< 0.216	< 0.244
Triamterene	< 0.147	< 0.147	< 0.153	< 0.15	0.107	< 0.145	0.112	< 0.122
List 5 - Acid Extraction in Positive Ionization								
Alprazolam	< 0.148	< 0.147	< 0.153	< 0.15	< 0.108	< 0.144	< 0.107	< 0.116
Amitriptyline	< 10.4	< 0.491	< 0.509	< 4.18	< 0.36	< 0.481	< 0.355	< 0.388
Amlodipine					< 0.54			< 0.582
Benzoylecgonine	< 0.26	< 0.147	< 0.402	< 0.15	< 0.108		< 0.107	< 0.116
Benztropine								
Betamethasone		< 0.737	< 0.763		< 0.54			< 0.582
Cocaine	< 0.0739	< 0.0737	< 0.0763	< 0.075	< 0.054	< 0.0722		< 0.349
DEET	0.227	0.527	0.24	0.066	0	0.157	0.261	0.235
Desmethyldiltiazem		< 0.0737	< 0.0763	< 0.075	< 0.054	< 0.0722		< 0.0582
Diazepam	< 0.493	< 0.491	< 0.509	< 0.5	< 0.36	< 0.481	< 0.355	< 0.388
Fluocinonide	< 2.96	< 3.29	< 3.58	< 3.36	< 4.88	< 4.01	< 5.75	< 3.13
Fluticasone propionate					< 0.877		< 5.37	< 1.41
Hydrocortisone	< 28.2	< 28.1	< 29.1	< 28.6	< 20.6	< 27.6	< 20.4	< 22.2
10-hydroxy-amitriptyline					< 0.054			< 0.0582
Meprobamate					< 1.46		< 1.44	< 1.57

	SRKW19-1	SRKW19-2	SRKW19-3	SRKW19-3 (Duplicate)	SRKW19-4	SRKW19-5	SRKW19-6	SRKW19-7
Methylprednisolone	< 1.99	< 1.98	< 2.05	< 2.02	< 1.46	< 1.94	< 1.44	< 2.53
Metoprolol		< 0.737	< 0.763	< 0.75	< 0.54		< 0.533	< 0.582
Norfluoxetine	< 0.824	< 0.737	< 2.69	< 1.6	< 0.54	< 2.17	< 1.13	< 1.95
Norverapamil					< 0.054			< 0.0582
Paroxetine	< 1.99	< 1.98	< 2.05	< 2.02	< 1.46		< 1.44	< 1.57
Prednisolone					< 2.16			< 4.75
Prednisone					< 7.2			< 7.76
Promethazine		< 0.197	< 0.203	< 0.2	< 0.144	< 0.192		< 0.155
Propoxyphene	< 4.02	< 2.53	< 1.5	< 1.32	< 0.295	< 3.99		< 0.968
Propranolol		< 0.983	< 1.02	< 1	< 0.72	< 0.962	< 0.71	< 0.776
Sertraline					< 0.157			< 0.26
Simvastatin					< 7.2			
Theophylline	< 29.6	< 29.5	< 30.5	< 30	< 44.8	< 28.9	< 21.3	< 23.3
Trenbolone	< 1.99	< 1.98	< 2.05	< 2.02	< 1.46	< 1.94	< 2.91	< 1.57
Trenbolone acetate	< 0.148	< 0.147	< 0.153	< 0.15	< 0.108	< 0.144	< 0.107	< 0.116
Valsartan					< 5.74			
Verapamil		< 0.0737	< 0.0763		< 0.054			< 0.0582
List 6 - Acid Extraction in Positive Ionization								
Amsacrine					< 0.0443			
Azathioprine	< 0.986	< 0.983	< 1.02	< 1	< 0.72	< 0.962	< 0.71	< 0.776
Busulfan	< 1.97	< 1.97	< 2.03	< 2	< 1.44	< 1.92	< 2.82	< 1.55
Citalopram					< 1.14	4.85(NDR)		< 5.99
Clotrimazole	< 1.08	< 0.767	< 1.05	< 0.733	< 0.389	< 2.53	< 1.37	0.546
Colchicine	< 1.58	< 1.57	< 1.63	< 1.6	< 1.15	< 1.54	< 1.14	< 1.24
Cyclophosphamide	< 0.394	< 0.393	< 0.407	< 0.4	< 0.288	< 0.385	< 0.284	< 0.31
Daunorubicin	< 31.1	< 30.8	< 51.3	< 4	< 2.88	< 32.5		< 13.9
Diatrizoic acid	< 11.8	< 16.4	< 14.2	< 12	< 41.1	< 11.5	< 8.53	< 9.31
Doxorubicin	< 11.8	< 11.8	< 12.2	< 12	< 8.64	< 32		< 9.31
Drospirenone	< 3.94	< 3.93	< 4.07	< 4	< 2.88	< 3.85	< 2.84	< 3.1
Etoposide	< 0.986	< 0.983	< 1.02	< 1	< 0.72	< 1.59	< 0.71	< 0.776
Iopamidol	< 101	62.3(NDR)	< 107	< 88.5		< 46.8	< 62.3	< 59.1
Medroxyprogesterone Acetate	< 1.97	< 1.97	< 2.03	< 2	< 1.44	< 1.92	< 1.42	< 1.55
Melphalan	< 192	< 161	< 242	< 37.4	< 32.3		< 42.2	< 14.2
Metronidazole	< 1.97	< 1.97	< 2.03	< 2	< 1.44	< 1.92	< 1.42	< 1.55
Moxifloxacin								
Oxazepam	< 1.97	< 1.97	< 2.03	< 2	< 1.44	< 1.92	< 1.42	< 1.55
Rosuvastatin	< 1.97	< 1.97	< 2.03	< 2	< 1.44	< 1.92	< 1.42	< 1.55
Tamoxifen	< 0.387	< 0.323	< 0.233	< 0.584	< 0.144	< 0.579	< 0.258	< 0.155

	SRKW19-1	SRKW19-2	SRKW19-3	SRKW19-3 (Duplicate)	SRKW19-4	SRKW19-5	SRKW19-6	SRKW19-7
Teniposide	< 2.81	< 4.66	< 2.43	< 2	< 1.44	< 1.92	< 1.42	< 2.63
Venlafaxine								
Zidovudine	< 43.6	< 11.8	< 12.2	< 12	< 8.64	< 36.2	< 84.4	< 16.3

	SRKW19-8	SRKW19-9	SRKW19-10	SRKW19-11	SRKW19-12	SRKW19-13	SRKW19-14	SRKW19-15
List 1 - Acid Extraction in Positive Ionization								
Acetaminophen	< 16.8	< 20.8	< 21.2	< 17.2	< 8.95	< 11.7	< 15.7	< 23.5
Azithromycin								
Caffeine	< 5.49	< 8.9	< 6.6	< 14	< 8.95	< 11.7	< 15.7	< 5.7
Carbadox			< 3.85	< 6.12				< 6.1
Carbamazepine	< 1.53	< 1.04	< 1.83	< 2.49	< 0.895	< 1.17	< 1.57	< 1.77
Cefotaxime								
Ciprofloxacin								
Clarithromycin								
Clinafloxacin								
Cloxacillin			< 16	< 17				< 16.9
Dehydronifedipine			< 1.84	< 2.93				< 1.43
Digoxigenin			< 61.3	< 96.6				< 78.6
Digoxin			< 11.5	< 16.3				< 18.3
Diltiazem			< 0.897	< 0.696				< 1.25
1,7-Dimethylxanthine	< 22	< 25.2	< 26.4	< 34.7				< 31.2
Diphenhydramine			1.03	0.981				0.761
Enrofloxacin								
Erythromycin-H2O	< 4.52	< 7.24	< 1.25	< 2.1				< 1.56
Flumequine			< 2.54	< 4.7				< 4.43
Fluoxetine			< 21.6		< 1.81			
Lincomycin			< 1.32	< 4.38				< 3.34
Lomefloxacin								
Miconazole			< 1.21	< 1.8				< 1.19
Norfloxacin								
Norgestimate			< 34.1	< 49.9				< 46.4
Ofloxacin								
Ormetoprim			< 2.3	< 3.21				< 3.74
Oxacillin			< 7.25	< 11.3				< 9.74
Oxolinic Acid			< 0.743	< 0.89				< 0.953
Penicillin G			< 11.4	< 11.6				< 14.4
Penicillin V			< 7.72	< 11.1				< 8.58

	SRKW19-8	SRKW19-9	SRKW19-10	SRKW19-11	SRKW19-12	SRKW19-13	SRKW19-14	SRKW19-15
Roxithromycin								
Sarafloxacin								
Sulfachloropyridazine	< 13.5	< 12.4	< 14	< 34	< 0.895	< 1.17	< 1.57	< 12.8
Sulfadiazine	< 2.72	< 2.34	< 2.46	< 3.99	< 0.895	< 1.17	< 1.57	< 3.43
Sulfadimethoxine	< 7.43	< 5.8	< 7.96	< 11.9	< 0.179	< 0.234	< 0.314	< 8.7
Sulfamerazine	< 6.82	< 6.98	< 4.93	< 7.8	< 0.359	< 0.487	< 0.873	< 8.53
Sulfamethazine	< 11.3	< 15	< 21.8	< 0.684	< 0.952	< 1.31	< 0.82	< 23
Sulfamethizole	< 8.86	< 6.98	< 12	< 17.8	< 0.358	< 0.468	< 0.628	< 8.85
Sulfamethoxazole	< 9.28	< 0.252	< 8.63	< 12.6	< 0.358	< 0.468	< 0.628	< 11.6
Sulfanilamide					< 8.95	< 11.7	< 15.7	
Sulfathiazole	< 7.28	< 6.65	< 6.53	< 9.6	< 0.895	< 1.17	< 1.57	< 7.58
Thiabendazole	< 2.49	< 2.19	< 1.41	< 3.52				< 2.83
Trimethoprim			< 2.73	< 7.54				< 7.71
Tylosin								
Virginiamycin M1	< 8.26	< 12	< 2.36	< 4.11				< 2.44
List 2 - Tetracyclines in Positive Ionization								
Anhydrochlortetracycline [ACTC]								
Anhydrotetracycline [ATC]								
Chlortetracycline [CTC]								
Demeclocycline								
Doxycycline								
4-Epianhydrochlortetracycline [EACTC]								
4-Epianhydrotetracycline [EATC]								
4-Epichlortetracycline [ECTC]								
4-Epioxytetracycline [EOTC]								
4-Epitetracycline [ETC]								
Isochlortetracycline [ICTC]								
Minocycline								
Oxytetracycline [OTC]								
Tetracycline [TC]								
List 3 - Acid Extraction in Negitive Ionization								
Bisphenol A	< 2.2	< 2.52	< 2.64	< 2.05	< 3.58	< 4.68	< 6.28	< 2.28
Furosemide	< 1.46	< 1.68	< 1.76	< 1.37	< 2.39	< 3.12	< 4.19	< 1.52
Gemfibrozil	< 0.293	< 0.336	< 0.352	< 0.274	< 0.477	< 0.625	< 0.838	< 0.304
Glipizide	< 0.293	< 0.336	< 0.352	< 0.274	< 0.477	< 0.625	< 0.838	< 0.304
Glyburide	< 0.293	< 0.336	< 0.352	< 0.274	< 0.477	< 0.625	< 0.838	< 0.304
Hydrochlorothiazide	< 3.22	< 3.7	< 3.87	< 3.01	< 5.25	< 6.87	< 9.21	< 3.34

	SRKW19-8	SRKW19-9	SRKW19-10	SRKW19-11	SRKW19-12	SRKW19-13	SRKW19-14	SRKW19-15
2-Hydroxy-ibuprofen	< 1.46	< 1.68	< 1.76	< 1.37	< 2.39	< 3.12	< 4.19	< 1.52
Ibuprofen	1.54	< 1.68	< 1.76	< 1.37	< 2.39	< 3.12	< 4.19	< 1.52
Naproxen	< 0.732	< 0.841	< 0.879	< 0.684	< 1.19	< 1.56	< 2.09	< 0.76
Triclocarban	1.55	1.5	2.31	4.32	0.319	2.34	3.9	2.84
Triclosan	< 2.2	< 2.52	< 2.64	3.72	< 3.58	< 4.68	< 6.28	< 2.28
Warfarin	< 0.146	< 0.168	< 0.176	< 0.137	< 0.239	< 0.312	< 0.419	< 0.152
List 4 - Basic Extraction in Positive Ionization								
Albuterol	< 0.105	< 0.124	< 0.136	< 0.115	< 0.174	< 0.253	< 0.313	< 0.117
Amphetamine	< 0.526	< 0.618	< 0.679	< 0.577	< 0.869	< 1.26	< 1.56	< 0.586
Atenolol	< 0.21	< 0.247	< 0.271	< 0.231	< 0.392	< 0.505	< 0.625	< 0.234
Atorvastatin	< 0.526	< 0.618	< 0.679	< 0.577				< 0.586
Cimetidine	< 0.241	< 0.247	< 0.271	< 0.231	< 0.348	< 0.505	< 0.625	< 0.234
Clonidine	< 0.526	< 0.618	< 0.679	< 0.577	< 0.869	< 1.26	< 1.56	< 0.586
Codeine	< 1.05	< 1.24	< 1.36	< 1.15	< 1.74	< 2.53	< 3.13	< 1.17
Cotinine	< 0.526	< 0.618	< 0.679	< 0.577	< 0.869	< 1.26	< 1.56	< 0.586
Enalapril	< 0.105	< 0.124	< 0.136	< 0.115	< 0.174	< 0.253	< 0.313	< 0.117
Hydrocodone	< 0.526	< 0.618	< 0.679	< 0.577	< 0.869	< 1.26	< 1.56	< 0.586
Metformin	< 1.05	< 1.24	< 1.36	< 1.15	38.5	< 2.53	67.3	< 1.17
Oxycodone	< 0.21	< 0.247	< 0.271	< 0.231	< 0.348	< 0.505	< 0.625	< 0.234
Ranitidine	< 0.21	< 0.247	< 0.271	< 0.231	< 0.348	< 0.505	< 0.625	< 0.234
Triamterene	< 0.105	< 0.124	< 0.136	< 0.115	< 0.174	< 0.253	< 0.313	< 0.117
List 5 - Acid Extraction in Positive Ionization								
Alprazolam	< 0.11	< 0.126	< 0.132	< 0.103	< 0.179	< 0.234	< 0.314	< 0.114
Amitriptyline	< 0.969	< 0.42	< 0.44	< 0.342	< 3.3	< 7.19	< 7.66	< 0.38
Amlodipine			< 0.66	< 0.513				< 0.57
Benzoylecgonine	< 0.11	< 0.126	< 0.132	< 0.103	< 0.179	< 0.234	< 0.314	< 0.114
Benztropine			< 0.22	< 0.171				
Betamethasone	< 0.549		< 0.66	< 0.513	< 11.7			< 0.57
Cocaine	< 0.231		0.09	< 0.0513				< 0.057
DEET	0.457	0.088	0.154	0.767	0	0.346	0.486	0
Desmethyldiltiazem	< 0.0549		< 0.066	< 0.0513				< 0.057
Diazepam	< 0.366	< 0.42	< 0.44	< 0.342	< 0.179	< 0.234	< 0.314	< 0.38
Fluocinonide	< 3.23	< 3.71	< 4.03	< 3.58	< 3.58	< 4.68	< 6.28	< 3.31
Fluticasone propionate	< 1.22	< 1.08	< 1.13	< 0.991			< 8.64	< 0.796
Hydrocortisone	< 21	< 24.1	< 25.2	< 19.6	< 35.8	< 46.8	< 62.8	< 21.8
10-hydroxy-amitriptyline	< 0.0549	< 0.0631	< 0.066	< 0.0513			< 0.157	< 0.057
Meprobamate	< 1.48	< 1.7	< 1.78	< 1.38			< 10.8	< 1.53

	SRKW19-8	SRKW19-9	SRKW19-10	SRKW19-11	SRKW19-12	SRKW19-13	SRKW19-14	SRKW19-15
Methylprednisolone	< 1.48	< 1.7	< 3.89	< 1.38	< 2.41	< 3.15	< 4.23	< 1.53
Metoprolol	< 0.549	< 0.631	< 0.66	< 0.513		< 26.6	< 1.57	< 0.57
Norfluoxetine	< 2.15	< 9.08	< 0.66	< 0.513	< 0.895	< 5.5	< 3.82	< 0.746
Norverapamil	< 0.0549	< 0.0631	< 0.066	< 0.0513			< 0.193	< 0.0579
Paroxetine	< 1.48		< 1.78	< 1.38	< 5.4	< 5.82	< 13.8	< 1.53
Prednisolone	< 2.2	< 2.52	< 2.64	< 5.1			< 6.28	< 3.33
Prednisone	< 7.32	< 8.41	< 8.79	< 6.84			< 20.9	< 7.6
Promethazine	< 0.146	< 0.168	< 0.176	< 0.137				< 0.152
Propoxyphene	< 5.66		< 0.133	< 0.15	< 3.41	< 3.7	< 6.28	< 0.114
Propranolol	< 0.732	< 0.841	< 0.879	< 0.684	< 1.19	< 1.56	< 2.09	< 0.76
Sertraline	< 0.33	< 0.445	< 0.204	< 0.259			< 1.19	< 0.185
Simvastatin			< 8.79	< 6.84				< 7.6
Theophylline	< 22	< 25.2	< 26.4	< 20.5	< 35.8	< 46.8	< 62.8	< 22.8
Trenbolone	< 1.48	< 1.7	< 1.78	< 1.38	< 2.41	< 3.15	< 4.23	< 1.53
Trenbolone acetate	< 0.11	< 0.126	< 0.132	< 0.103	< 0.212	< 0.268	< 0.365	< 0.114
Valsartan			< 2.65	< 2.24				< 2.81
Verapamil	< 0.0549		< 0.066	< 0.061	< 0.0895			< 0.057
List 6 - Acid Extraction in Positive Ionization								
Amsacrine			< 0.0417	< 0.0274				< 0.0304
Azathioprine	< 0.732	< 0.841	< 0.879	< 0.684	< 1.19	< 1.56	< 2.09	< 0.76
Busulfan	< 1.46	< 1.68	< 1.76	< 1.37	< 2.39	< 3.12	< 4.19	< 1.52
Citalopram	< 1.59		0.591	1.01				0.464
Clotrimazole	< 0.366	< 0.702	< 0.209	0.645				< 0.787
Colchicine	< 1.66	< 1.35	< 1.41	< 1.1	< 1.51	< 1.05	< 0.969	< 1.22
Cyclophosphamide	< 0.293	< 0.336	< 0.352	< 0.274	< 0.477	< 0.625	< 0.838	< 0.304
Daunorubicin	< 2.93		< 3.52	< 2.74				< 13.9
Diatrizoic acid	< 8.78	< 10.9	< 17.1	< 8.21	< 27.3	< 18.7	< 25.1	< 9.12
Doxorubicin	< 8.78	< 10.1	< 10.6	< 8.21				< 9.12
Drospirenone	< 2.93	< 3.36	< 3.52	< 2.74	< 4.77	< 6.25	< 8.38	< 3.04
Etoposide	< 0.732	< 0.841	< 0.879	< 0.764	< 1.19	< 1.56	< 2.09	< 0.76
Iopamidol	< 52.7	< 54.7	< 77	< 78.9	< 47.7	< 62.5	< 83.8	< 30.4
Medroxyprogesterone Acetate	< 1.46	< 1.68	< 1.76	< 1.37	< 2.39	< 3.12	< 4.19	< 1.52
Melphalan	< 24.4	< 12.3	< 24.5	< 25				< 11.7
Metronidazole	< 1.46	< 1.68	< 1.76	< 1.37	< 2.39	< 3.12	< 4.19	< 1.52
Moxifloxacin								
Oxazepam	< 1.46	< 1.68	< 1.76	< 2.02	< 2.39	< 3.12	< 4.19	< 1.52
Rosuvastatin	< 1.71	< 1.68	< 1.76	< 1.37	< 2.39	< 3.12	< 4.19	< 1.52
Tamoxifen	< 0.146	< 0.168	< 0.176	< 0.137				< 0.152
Teniposide	< 2.59	< 3.1	< 1.76	< 2.67	< 2.39	< 3.12	< 4.19	< 1.7

	SRKW19-8	SRKW19-9	SRKW19-10	SRKW19-11	SRKW19-12	SRKW19-13	SRKW19-14	SRKW19-15
Venlafaxine								
Zidovudine	< 36.5	< 16.5	< 23.5	< 28.4	< 14.3	< 18.7	< 25.1	< 9.12

	SRKW19-16	SRKW19-17	SRKW19-18	SRKW19-19	PTP2-PH	PTP2-GINP1	PTP2-EH2
List 1 - Acid Extraction in Positive Ionization							
Acetaminophen	< 14.1	< 9.11	< 11	< 13.6	< 14.3	< 9.61	< 9.36
Azithromycin							
Caffeine	< 14.1	< 9.11	< 12.1	< 13.6	< 14.3	< 9.61	< 10.9
Carbadox							
Carbamazepine	< 1.41	< 0.911	< 1.1	< 1.36	< 1.43	< 0.961	< 0.936
Cefotaxime							
Ciprofloxacin							
Clarithromycin							
Clinafloxacin							
Cloxacillin							
Dehydronifedipine							
Digoxigenin							
Digoxin							
Diltiazem							
1,7-Dimethylxanthine							
Diphenhydramine							
Enrofloxacin							
Erythromycin-H2O							
Flumequine							
Fluoxetine	< 2.66	< 1.78	< 5.78	< 1.59	< 1.43		< 1.72
Lincomycin							
Lomefloxacin							
Miconazole							
Norfloxacin							
Norgestimate							
Ofloxacin							
Ormetoprim							
Oxacillin							
Oxolinic Acid							
Penicillin G							
Penicillin V							
Roxithromycin							
Sarafloxacin							
Sulfachloropyridazine	< 1.41	< 0.911	< 1.1	< 1.36	< 1.43	< 0.961	< 0.936
Sulfadiazine	< 1.41	< 0.911	< 1.1	< 1.36	< 1.43	< 0.961	< 0.936
Sulfadimethoxine	< 0.281	< 0.182	< 0.22	< 0.272	< 0.287	< 0.192	< 0.187
Sulfamerazine	< 2.2	< 0.766	< 0.925	< 0.738	< 1.12	< 0.384	< 0.527

	SRKW19-16	SRKW19-17	SRKW19-18	SRKW19-19	PTP2-PH	PTP2-GINP1	PTP2-EH2
Sulfamethazine	< 1.42	< 1.23	< 1.72	< 0.59	< 2.12	< 1.39	< 0.895
Sulfamethizole	< 0.563	< 0.364	< 0.441	< 0.544	< 0.573	< 0.384	< 0.374
Sulfamethoxazole	< 0.563	< 0.364	< 0.441	< 0.544	< 0.573	< 0.384	< 0.374
Sulfanilamide	< 14.1	< 9.11	< 15.3	< 13.6	< 14.3	< 9.61	< 9.36
Sulfathiazole	< 1.41	< 0.911	< 1.1	< 1.36	< 1.43	< 0.961	< 0.936
Thiabendazole							
Trimethoprim							
Tylosin							
Virginiamycin M1							
List 2 - Tetracyclines in Positive Ionization							
Anhydrochlortetracycline [ACTC]							
Anhydrotetracycline [ATC]							
Chlortetracycline [CTC]							
Demeclocycline							
Doxycycline							
4-Epianhydrochlortetracycline [EACTC]							
4-Epianhydrotetracycline [EATC]							
4-Epichlortetracycline [ECTC]							
4-Epioxytetracycline [EOTC]							
4-Epitetracycline [ETC]							
Isochlortetracycline [ICTC]							
Minocycline							
Oxytetracycline [OTC]							
Tetracycline [TC]							
List 3 - Acid Extraction in Negitive Ionization							
Bisphenol A	< 5.63	< 3.64	5.48	< 5.44	< 5.73	< 3.84	< 3.74
Furosemide	< 3.75	< 2.43	< 2.94	< 3.63	< 3.82	< 2.56	< 2.5
Gemfibrozil	< 0.751	< 0.486	< 0.587	< 0.725	< 0.764	< 0.512	< 0.499
Glipizide	< 0.751	< 0.486	< 0.587	< 0.725	< 0.764	< 0.512	< 0.499
Glyburide	< 0.751	< 0.486	< 0.587	< 0.725	< 0.764	< 0.512	< 0.499
Hydrochlorothiazide	< 8.26	< 5.34	< 6.46	< 7.98	< 8.41	< 5.64	< 5.49
2-Hydroxy-ibuprofen	< 3.75	< 2.43	< 2.94	< 3.63	< 3.82	< 2.56	< 2.5
Ibuprofen	< 3.75	< 2.43	< 2.94	< 3.63	< 3.82	< 2.56	< 2.5
Naproxen	< 1.88	< 1.21	< 1.47	< 1.81	< 1.91	< 1.28	< 1.25
Triclocarban	2.47	0.411	0.651	2.53	0.761	0.414	1.24
Triclosan	< 5.63	< 3.64	< 4.41	< 5.44	< 5.73	< 3.84	< 3.74
Warfarin	< 0.375	< 0.243	< 0.294	< 0.363	< 0.382	< 0.256	< 0.25
List 4 - Basic Extraction in Positive Ionization							
Albuterol	< 0.294	< 0.171	< 0.223	< 0.267	< 0.294	< 0.184	< 0.184

	SRKW19-16	SRKW19-17	SRKW19-18	SRKW19-19	PTP2-PH	PTP2-GINP1	PTP2-EH2
Amphetamine	< 1.47	< 0.857	< 1.12	< 1.33	< 1.47	< 0.92	< 0.918
Atenolol	< 0.617	< 0.343	< 0.507	< 0.575	< 0.588	< 0.368	< 0.412
Atorvastatin							
Cimetidine	< 0.587	< 0.343	< 0.446	< 0.533	< 0.588	< 0.368	< 0.367
Clonidine	< 1.47	< 0.857	< 1.12	< 1.33	< 1.47	< 0.92	< 0.918
Codeine	< 2.94	< 1.71	< 2.23	< 2.67	< 2.94	< 1.84	< 1.84
Cotinine	< 1.47	< 0.857	< 1.12	< 1.33	< 1.47	< 0.92	< 0.918
Enalapril	< 0.294	< 0.171	< 0.223	< 0.267	< 0.294	< 0.184	< 0.184
Hydrocodone	< 1.47	< 0.857	< 1.12	< 1.33	< 1.47	< 0.92	< 0.918
Metformin	< 2.94	67.4	< 2.23	< 2.67	< 2.94	< 1.84	< 1.84
Oxycodone	< 0.587	< 0.343	< 0.446	< 0.533	< 0.588	< 0.368	< 0.367
Ranitidine	< 0.587	< 0.343	< 0.446	< 0.533	< 0.588	< 0.368	< 0.367
Triamterene	< 0.294	< 0.171	< 0.223	< 0.267	< 0.294	< 0.184	< 0.184
List 5 - Acid Extraction in Positive Ionization							
Alprazolam	< 0.281	< 0.182	< 0.22	< 0.272	< 0.287	< 0.192	< 0.187
Amitriptyline	< 10.7	< 5.12	< 6.49	< 3.91	< 2.43	< 3.6	< 2.72
Amlodipine					< 1.43		
Benzoylecgonine	< 0.281	< 0.182	< 0.22	< 0.272	< 0.287	< 0.192	< 0.187
Benztropine							
Betamethasone					< 17.7		
Cocaine				< 0.136	< 0.143	< 0.0961	< 0.0936
DEET	0.205	0	0.174	0.236	0.201	0	0.216
Desmethyldiltiazem							
Diazepam	< 0.281	< 0.182	< 0.22	< 0.272	< 0.287	< 0.192	< 0.187
Fluocinonide	< 5.63	< 3.64	< 4.41	< 5.44	< 5.73	< 3.84	< 3.74
Fluticasone propionate					< 2.5		
Hydrocortisone	< 56.3	< 36.4	< 44.1	< 54.4	< 57.3	< 38.4	< 37.4
10-hydroxy-amitriptyline					< 0.143		
Meprobamate					< 3.86		
Methylprednisolone	< 3.79	< 2.45	< 2.97	< 3.66	< 3.86	< 2.59	< 2.52
Metoprolol	< 1.41		68.1	< 1.36	< 2.6		< 0.936
Norfluoxetine	< 1.99	< 1.37	< 3.54	< 1.85	< 1.43	< 4.31	< 1.34
Norverapamil					< 0.143		
Paroxetine	< 5.4	< 3.68	< 5.05	< 9.22		< 6.14	< 4.24
Prednisolone					< 5.73		
Prednisone					< 19.1		
Promethazine							
Propoxyphene	< 1.68	< 1.8	< 2.83	< 1.32	< 1.31	< 1.41	< 1.53
Propranolol	< 1.88	< 1.21	< 1.47	< 3.71	< 1.91		< 1.25
Sertraline					< 0.402		
Simvastatin							
Theophylline	< 56.3	< 36.4	< 44.1	< 54.4	< 57.3	< 38.4	< 37.4
Trenbolone	< 3.79	< 2.45	< 2.97	< 3.66	< 3.86	< 2.59	< 2.52

	SRKW19-16	SRKW19-17	SRKW19-18	SRKW19-19	PTP2-PH	PTP2-GINP1	PTP2-EH2
Trenbolone acetate	< 0.297	< 0.214	< 0.346	< 0.388	< 0.462	< 0.218	< 0.316
Valsartan							
Verapamil					< 0.143		
List 6 - Acid Extraction in Positive Ionization							
Amsacrine							
Azathioprine	< 1.88	< 1.21	< 1.77	< 1.81	< 1.91	< 1.28	< 1.25
Busulfan	< 4.91	< 2.51	< 3.21	< 3.63	< 3.82	< 3.5	< 2.5
Citalopram							
Clotrimazole							
Colchicine	< 3.24	< 0.513	< 1.01	< 1.29	< 0.764	< 0.512	< 0.527
Cyclophosphamide	< 0.751	< 0.486	< 0.587	< 0.725	< 0.764	< 0.512	< 0.499
Daunorubicin							
Diatrizoic acid	< 22.5	< 14.6	< 17.6	< 21.8	< 22.9	< 15.4	< 16
Doxorubicin							
Drospirenone	< 7.51	< 4.86	< 5.87	< 7.25	< 7.64	< 5.12	< 4.99
Etoposide	< 1.88	< 1.21	< 1.47	< 1.81	< 1.91	< 1.28	< 1.25
Iopamidol	< 75.1	< 196	< 58.7	< 72.5	< 76.4	< 51.2	< 49.9
Medroxyprogesterone Acetate	< 3.75	< 2.43	< 2.94	< 3.63	< 3.82	< 2.56	< 2.5
Melphalan							
Metronidazole	< 3.75	< 2.43	< 2.94	< 3.63	< 3.82	< 2.56	< 2.5
Moxifloxacin							
Oxazepam	< 3.75	< 2.43	< 2.94	< 3.63	< 3.82	< 2.56	< 2.5
Rosuvastatin	< 3.75	< 2.43	< 2.94	< 3.63	< 3.82	< 2.56	< 2.5
Tamoxifen							
Teniposide	< 3.75	< 2.43	< 2.94	< 3.63	< 3.82	< 2.56	< 2.5
Venlafaxine							
Zidovudine	< 22.5	< 14.6	< 17.6	< 21.8	< 22.9	< 15.4	< 15

	PTP2-STH1	PTP2-STH1 (Duplicate)	PTP2-SI1
List 1 - Acid Extraction in Positive Ionization			
Acetaminophen	< 8.34	< 9.91	< 8.07
Azithromycin			
Caffeine	< 8.34	< 17.8	< 8.07
Carbadox			
Carbamazepine	< 0.834	< 0.991	< 0.807
Cefotaxime			
Ciprofloxacin			
Clarithromycin			
Clinafloxacin			

	PTP2-STH1	PTP2-STH1 (Duplicate)	PTP2-SI1
Cloxacillin			
Dehydronifedipine			
Digoxigenin			
Digoxin			
Diltiazem			
1,7-Dimethylxanthine			
Diphenhydramine			
Enrofloxacin			
Erythromycin-H2O			
Flumequine			
Fluoxetine	< 1.37	< 1.8	< 0.807
Lincomycin			
Lomefloxacin			
Miconazole			
Norfloxacin			
Norgestimate			
Ofloxacin			
Ormetoprim			
Oxacillin			
Oxolinic Acid			
Penicillin G			
Penicillin V			
Roxithromycin			
Sarafloxacin			
Sulfachloropyridazine	< 0.834	< 0.991	< 0.807
Sulfadiazine	< 0.834	< 0.991	< 0.807
Sulfadimethoxine	< 0.254	< 0.198	< 0.161
Sulfamerazine	< 0.367	< 0.468	< 0.373
Sulfamethazine	< 0.989	< 0.817	< 0.39
Sulfamethizole	< 0.334	< 0.396	< 0.323
Sulfamethoxazole	< 0.334	< 0.396	< 0.323
Sulfanilamide	< 8.48	< 9.91	< 8.07
Sulfathiazole	< 0.834	< 0.991	< 0.807
Thiabendazole			
Trimethoprim			
Tylosin			
Virginiamycin M1			
List 2 - Tetracyclines in Positive Ionization			

	PTP2-STH1	PTP2-STH1 (Duplicate)	PTP2-SI1
Anhydrochlortetracycline [ACTC]			
Anhydrotetracycline [ATC]			
Chlortetracycline [CTC]			
Demeclocycline			
Doxycycline			
4-Epianhydrochlortetracycline [EACTC]			
4-Epianhydrotetracycline [EATC]			
4-Epichlortetracycline [ECTC]			
4-Epioxytetracycline [EOTC]			
4-Epitetracycline [ETC]			
Isochlortetracycline [ICTC]			
Minocycline			
Oxytetracycline [OTC]			
Tetracycline [TC]			
List 3 - Acid Extraction in Negitive Ionization			
Bisphenol A	< 3.34	< 3.96	< 3.23
Furosemide	< 2.22	< 2.64	< 2.15
Gemfibrozil	< 0.445	< 0.528	< 0.43
Glipizide	< 0.445	< 0.528	< 0.43
Glyburide	< 0.445	< 0.528	< 0.43
Hydrochlorothiazide	< 4.89	< 5.81	< 4.73
2-Hydroxy-ibuprofen	< 2.22	< 2.64	< 2.15
Ibuprofen	< 2.22	< 2.64	< 2.15
Naproxen	< 1.11	< 1.32	< 1.08
Triclocarban	< 0.222	< 0.264	0.296
Triclosan	< 3.34	< 3.96	< 3.23
Warfarin	< 0.222	< 0.264	< 0.215
List 4 - Basic Extraction in Positive Ionization			
Albuterol	< 0.175	< 0.203	< 0.158
Amphetamine	< 0.874	< 1.01	< 0.79
Atenolol	< 0.35	< 0.436	< 0.316
Atorvastatin			
Cimetidine	< 0.35	< 0.406	< 0.316
Clonidine	< 0.874	< 1.01	< 0.79
Codeine	< 1.75	< 2.03	< 1.58
Cotinine	< 0.874	< 1.01	< 0.79

	PTP2-STH1	PTP2-STH1 (Duplicate)	PTP2-SI1
Enalapril	< 0.175	< 0.203	< 0.158
Hydrocodone	< 0.874	< 1.01	< 0.79
Metformin	< 1.75	< 2.03	10
Oxycodone	< 0.35	< 0.406	< 0.316
Ranitidine	< 0.35	< 0.406	< 0.316
Triamterene	< 0.175	< 0.203	< 0.158
List 5 - Acid Extraction in Positive Ionization			
Alprazolam	< 0.167	< 0.198	< 0.161
Amitriptyline	< 2.81	< 2.17	< 2.15
Amlodipine			
Benzoylecgonine	< 0.167	< 0.198	< 0.161
Benztropine			
Betamethasone	< 5.39	< 8.68	< 3.19
Cocaine	< 0.0834	< 0.0991	< 0.0807
DEET	0	0	0
Desmethyldiltiazem			
Diazepam	< 0.167	< 0.198	< 0.161
Fluocinonide	< 3.34	< 3.96	< 3.23
Fluticasone propionate			
Hydrocortisone	< 33.4	< 39.6	< 32.3
10-hydroxy-amitriptyline			
Meprobamate			
Methylprednisolone	< 2.25	< 2.67	< 2.17
Metoprolol		< 31.8	< 0.807
Norfluoxetine	< 1.3	< 1.73	< 2.17
Norverapamil			
Paroxetine	< 3.42	< 4.34	< 4.04
Prednisolone			
Prednisone			
Promethazine			
Propoxyphene	< 1.43	< 0.981	< 1.19
Propranolol	< 1.11	< 1.32	< 1.08
Sertraline			
Simvastatin			
Theophylline	< 33.4	< 39.6	< 32.3
Trenbolone	< 2.25	< 2.67	< 2.17
Trenbolone acetate	< 0.206	< 0.286	< 0.161
Valsartan			

	PTP2-STH1	PTP2-STH1 (Duplicate)	PTP2-SI1
Verapamil	< 0.0834	< 0.0991	< 0.0807
List 6 - Acid Extraction in Positive Ionization			
Amsacrine			
Azathioprine	< 1.11	< 1.32	< 1.08
Busulfan	< 2.22	< 2.81	< 2.15
Citalopram			
Clotrimazole			
Colchicine	< 0.502	< 2.32	< 0.43
Cyclophosphamide	< 0.445	< 0.528	< 0.43
Daunorubicin			
Diatrizoic acid	< 17.7	< 15.9	< 12.9
Doxorubicin			
Drospirenone	< 4.45	< 5.28	< 4.3
Etoposide	< 1.11	< 1.32	< 1.08
Iopamidol	< 44.5	< 52.8	< 43
Medroxyprogesterone Acetate	< 2.22	< 2.64	< 2.15
Melphalan			
Metronidazole	< 2.22	< 2.64	< 2.15
Moxifloxacin			
Oxazepam	< 2.22	< 2.64	< 2.15
Rosuvastatin	< 2.22	< 2.64	< 2.15
Tamoxifen			
Teniposide	< 2.22	< 2.64	< 2.15
Venlafaxine			
Zidovudine	< 13.3	< 18.3	< 12.9

Table 17. Sediment samples from Sand Heads (SH) and Point Grey (PG) disposal sites, and inside and outside Southern Resident Killer Whale (SRKW) Critical Habitat sites were analyzed for metals. < = values below reporting limit (RL).

	Units	SRKW19-1	SRKW19-2	SRKW19-3	SRKW19-4	SRKW19-5	SRKW19-6	SRKW19-7	SRKW19-8
Total Organic Carbon (TOC)	(%)	0.526	1.08	0.753	1.49	0.401	1.34	1.18	1.63
Metals									
aluminum	mg/kg	13300	16600	9600	18200	13900	20500	20200	22100
antimony	mg/kg	0.18	0.24	0.24	0.44	0.47	0.54	0.52	0.47
arsenic	mg/kg	6.44	6.22	5.19	8.95	6.83	9.67	8.84	11.5
barium	mg/kg	27.7	39.4	27.4	51.3	65.8	59.1	62.9	60.5
beryllium	mg/kg	0.32	0.37	0.22	0.42	0.34	0.48	0.44	0.50
bismuth	mg/kg	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	0.22	<0.20
boron	mg/kg	19.2	25.0	11.8	29.2	12.0	28.2	23.4	37.5
cadmium	mg/kg	0.170	0.165	0.064	0.159	0.169	0.133	0.182	0.149
calcium	mg/kg	5310	6820	4960	7170	7920	7530	8260	7660
chromium	mg/kg	27.4	31.8	30.7	40.1	38.2	46.4	49.1	47.2
cobalt	mg/kg	7.39	7.86	8.50	10.8	11.9	14.2	14.3	12.4
copper	mg/kg	11.3	19.2	13.2	30.3	28.7	36.4	39.5	34.0
iron	mg/kg	26400	26600	20300	31400	28000	36600	35600	36200
lead	mg/kg	5.66	7.92	3.83	9.40	6.33	11.3	9.60	11.3
lithium	mg/kg	19.3	20.8	10.9	20.9	14.0	22.6	21.4	24.6
magnesium	mg/kg	7510	8820	8260	11800	10600	13600	14000	13600
manganese	mg/kg	231	261	258	369	406	556	430	484
mercury	mg/kg	0.0306	0.0473	0.0278	0.0648	0.0415	0.0771	0.0702	0.0752
molybdenum	mg/kg	0.27	0.47	0.37	0.74	0.81	0.87	1.10	0.80
nickel	mg/kg	19.7	24.4	30.9	36.5	41.1	42.9	46.9	40.5
phosphorus	mg/kg	660	733	580	973	683	952	1020	1110
potassium	mg/kg	1840	2440	1220	2760	1600	3210	2730	3520
selenium	mg/kg	<0.20	0.43	<0.20	0.50	0.28	0.53	0.44	0.72
silver	mg/kg	<0.10	<0.10	<0.10	0.12	0.10	0.12	0.17	0.12
sodium	mg/kg	5840	10500	5130	16100	8300	18100	14400	22100
strontium	mg/kg	35.8	54.0	34.4	56.7	48.6	61.2	57.2	66.0
sulfur	mg/kg	<1000	2000	<1000	2100	<1000	1900	2200	2700
thallium	mg/kg	0.108	0.090	0.082	0.083	0.076	0.102	0.101	0.092
tin	mg/kg	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
titanium	mg/kg	826	952	793	902	906	923	1100	1100
tungsten	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
uranium	mg/kg	0.432	0.626	0.406	0.814	0.632	1.02	0.922	0.992
vanadium	mg/kg	45.7	51.7	41.1	58.0	50.3	66.8	66.0	70.1
zinc	mg/kg	55.2	63.8	45.9	78.8	66.0	87.6	89.0	87.3
zirconium	mg/kg	5.8	7.0	5.6	6.7	7.7	7.9	8.4	8.0
Extractable Metals									
cadmium	µmole/g	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
copper	µmole/g	0.041	0.090	0.048	0.164	0.172	0.208	0.182	0.160

	Units	SRKW19-1	SRKW19-2	SRKW19-3	SRKW19-4	SRKW19-5	SRKW19-6	SRKW19-7	SRKW19-8
lead	µmole/g	0.027	0.038	<0.020	0.044	0.028	0.060	0.041	0.054
mercury	µmole/g	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050
nickel	µmole/g	<0.050	0.066	0.080	0.111	0.129	0.131	0.121	0.095
zinc	µmole/g	0.251	0.278	0.165	0.309	0.216	0.382	0.323	0.314
Speciated Metals									
methylmercury (as MeHg)	µg/kg	<0.050	0.103	<0.050	<0.050	0.076	0.134	0.264	0.059

	Units	SRKW19-9	SRKW19-10	SRKW19-11	SRKW19-12	SRKW19-13	SRKW19-14	SRKW19-15	SRKW19-16
Total Organic Carbon (TOC)	(%)	1.59	1.55	1.28	0.401	1.42	1.85	2.46	1.54
Metals									
aluminum	mg/kg	21400	20000	21200	11800	22400	23100	23500	24200
antimony	mg/kg	0.46	0.48	0.50	0.20	0.53	0.69	1.56	0.57
arsenic	mg/kg	12.3	10.1	8.99	3.68	9.48	7.92	6.99	9.29
barium	mg/kg	59.4	54.8	61.5	48.3	66.1	66.4	72.0	65.5
beryllium	mg/kg	0.46	0.42	0.48	0.19	0.50	0.56	0.55	0.58
bismuth	mg/kg	<0.20	<0.20	0.23	<0.20	0.24	0.25	0.26	0.24
boron	mg/kg	36.1	34.0	26.2	9.0	32.2	44.9	73.4	44.0
cadmium	mg/kg	0.152	0.126	0.158	0.077	0.145	0.195	0.525	0.205
calcium	mg/kg	6890	6480	7810	4600	7770	7640	9130	7780
chromium	mg/kg	41.5	41.5	48.1	21.2	48.5	45.6	44.4	50.1
cobalt	mg/kg	13.0	11.8	13.2	6.94	13.4	19.4	24.4	16.9
copper	mg/kg	32.6	30.5	39.5	17.6	38.2	42.9	54.3	38.8
iron	mg/kg	34200	32400	34400	19700	36400	36100	36100	40900
lead	mg/kg	11.4	11.2	11.1	3.85	13.0	18.5	20.3	16.3
lithium	mg/kg	23.0	21.5	22.4	7.9	23.5	25.5	27.6	26.2
magnesium	mg/kg	13700	12200	13600	6210	13600	14800	18900	14800
manganese	mg/kg	980	625	410	289	462	839	6100	579
mercury	mg/kg	0.0750	0.0702	0.0824	0.0276	0.0842	0.109	0.128	0.0988
molybdenum	mg/kg	0.82	0.72	0.85	0.39	1.01	0.87	1.44	0.89
nickel	mg/kg	38.7	36.1	43.1	15.9	42.3	42.1	46.2	43.5
phosphorus	mg/kg	1080	945	958	465	905	824	858	932
potassium	mg/kg	3500	3280	3060	1380	3620	4750	5330	4530
selenium	mg/kg	0.63	0.60	0.56	<0.20	0.56	0.85	1.47	0.72
silver	mg/kg	0.14	0.10	0.18	<0.10	0.14	0.12	0.13	0.11
sodium	mg/kg	23000	20100	15200	5270	18800	28000	38200	22700
strontium	mg/kg	65.3	58.6	58.5	39.1	66.2	67.9	86.4	67.9
sulfur	mg/kg	2500	2200	1900	<1000	2000	3200	3800	2500
thallium	mg/kg	0.078	0.081	0.097	<0.050	0.092	0.096	0.103	0.096
tin	mg/kg	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
titanium	mg/kg	959	934	1090	715	1060	948	982	939
tungsten	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
uranium	mg/kg	0.834	0.885	0.917	0.464	1.08	1.25	1.24	1.29
vanadium	mg/kg	68.3	64.5	66.2	49.3	71.5	73.8	106	76.0

	Units	SRKW19-9	SRKW19-10	SRKW19-11	SRKW19-12	SRKW19-13	SRKW19-14	SRKW19-15	SRKW19-16
zinc	mg/kg	82.8	79.1	89.0	40.6	92.7	108	136	105
zirconium	mg/kg	6.0	7.0	8.0	4.6	8.3	7.8	6.4	6.2
Extractable Metals									
cadmium	µmole/g	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
copper	µmole/g	0.181	0.223	0.228	0.092	0.216	0.246	0.354	0.198
lead	µmole/g	0.063	0.077	0.057	0.020	0.067	0.080	0.119	0.079
mercury	µmole/g	0.000080	0.000080	<0.000050	<0.000050	<0.000050	0.000080	0.000100	0.000065
nickel	µmole/g	0.114	0.133	0.124	<0.050	0.126	0.133	0.201	0.109
zinc	µmole/g	0.373	0.440	0.384	0.126	0.405	0.508	0.841	0.445
Speciated Metals									
methylmercury (as MeHg)	µg/kg	0.100	<0.050	<0.050	<0.050	0.294	0.082	<0.050	0.377

	Units	SRKW19-17	SRKW19-18	SRKW19-19	PTP2-PH	PTP2-STH1	PTP2-SI1	PTP2-GINP1	PTP2-EH2
Total Organic Carbon (TOC)	(%)	0.699	1.18	1.85	4.63	0.691	0.155		
Metals									
aluminum	mg/kg	11400	15100	24100	15200	16300	9160	9340	13600
antimony	mg/kg	0.15	0.19	0.88	0.40	0.42	0.18	0.13	0.12
arsenic	mg/kg	5.32	6.09	12.0	13.8	5.95	5.36	3.00	4.16
barium	mg/kg	24.1	37.3	73.5	68.5	77.0	36.7	25.1	28.0
beryllium	mg/kg	0.28	0.36	0.53	0.24	0.38	0.19	0.19	0.26
bismuth	mg/kg	<0.20	<0.20	0.24	<0.20	<0.20	<0.20	<0.20	<0.20
boron	mg/kg	19.0	28.5	54.1	55.2	10.9	<5.0	16.7	15.2
cadmium	mg/kg	0.148	0.146	0.240	3.26	0.174	0.078	0.216	0.298
calcium	mg/kg	18900	8070	8110	9740	9240	4530	75400	4400
chromium	mg/kg	27.1	31.2	47.4	27.0	58.2	26.9	17.0	22.9
cobalt	mg/kg	7.33	7.52	19.4	5.14	15.9	9.45	4.41	5.78
copper	mg/kg	11.5	17.5	40.0	95.2	34.2	13.4	9.17	14.0
iron	mg/kg	23300	26500	39500	16000	32200	20600	15400	20700
lead	mg/kg	4.82	7.56	16.2	18.6	5.83	3.82	3.97	6.72
lithium	mg/kg	15.4	21.2	27.1	12.6	13.2	8.1	11.8	19.2
magnesium	mg/kg	7690	9090	16300	7960	15400	7160	6190	7130
manganese	mg/kg	219	247	4690	205	483	500	151	179
mercury	mg/kg	0.0286	0.0566	0.0957	0.155	0.0424	0.0160	0.0226	0.0484
molybdenum	mg/kg	0.43	0.46	1.71	5.68	0.74	0.48	0.34	0.34
nickel	mg/kg	21.2	23.4	43.2	17.8	71.9	30.9	11.9	15.7
phosphorus	mg/kg	606	719	1070	1410	789	549	626	692
potassium	mg/kg	1700	2450	4350	2970	1790	640	1420	1720
selenium	mg/kg	0.25	0.38	0.95	1.47	0.23	<0.20	0.25	0.22
silver	mg/kg	<0.10	<0.10	0.11	0.34	0.11	<0.10	<0.10	<0.10
sodium	mg/kg	7120	13500	29500	17500	7320	1470	6960	7620
strontium	mg/kg	74.3	56.4	88.2	80.1	59.1	23.0	597	35.3

	Units	SRKW19-17	SRKW19-18	SRKW19-19	PTP2-PH	PTP2-STH1	PTP2-SI1	PTP2-GINP1	PTP2-EH2
sulfur	mg/kg	1600	2600	3000	9700	<1000	<1000	1600	1600
thallium	mg/kg	0.122	0.086	0.094	0.400	0.078	0.056	0.115	0.168
tin	mg/kg	<2.0	<2.0	<2.0	6.3	<2.0	<2.0	<2.0	<2.0
titanium	mg/kg	755	900	946	666	1060	714	607	858
tungsten	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
uranium	mg/kg	0.545	0.588	0.936	2.78	0.630	0.320	0.605	0.603
vanadium	mg/kg	46.3	51.8	88.3	39.2	59.4	43.2	32.5	41.5
zinc	mg/kg	46.3	62.3	105	89.0	69.3	43.1	36.0	52.1
zirconium	mg/kg	4.1	6.0	6.8	2.3	11.0	4.6	3.0	5.4
Extractable Metals									
cadmium	µmole/g	<0.0050	<0.0050	<0.0050	0.0219	<0.0050	<0.0050	<0.0050	<0.0050
copper	µmole/g	0.039	0.078	0.326	0.034	0.201	0.050	0.040	0.060
lead	µmole/g	0.022	0.038	0.111	0.093	0.033	<0.020	<0.020	0.033
mercury	µmole/g	<0.000050	<0.000050	0.000319	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050
nickel	µmole/g	<0.050	0.068	0.186	<0.050	0.322	0.063	<0.050	<0.050
zinc	µmole/g	0.168	0.280	0.724	0.652	0.248	0.123	0.165	0.252
Speciated Metals									
methylmercury (as MeHg)	µg/kg	0.149	0.456	0.432	0.168	0.741	<0.050	0.394	0.461

Table 18. Sediment samples from Sand Heads (SH) and Point Grey (PG) disposal sites, and inside and outside Southern Resident Killer Whale (SRKW) Critical Habitat sites were analyzed for Dioxins (PCDD) and Furans (PCDF). All values are reported in pg/g dry weight. < = values below reporting limit (RL).

	SRKW19-1	SRKW19-1 (Duplicate)	SRKW19-2	SRKW19-3	SRKW19-4	SRKW19-5	SRKW19-6	SRKW19-7	SRKW19-8
2,3,7,8-TCDD	0.11(NDR)	0.162	0.176(NDR)	0.0616(NDR)	0.197(NDR)	0.0648(NDR)	0.229(NDR)	0.109(NDR)	0.21(NDR)
1,2,3,7,8-PECDD	0.211	0.503	0.349	0.104	0.43	0.129(NDR)	1.12	0.264	0.703
1,2,3,4,7,8-HXCDD	0.155	0.324	0.29	0.0994(NDR)	0.284(NDR)	0.149	0.753	0.297	0.472
1,2,3,6,7,8-HXCDD	0.8478	1.1898	1.2798	0.3048(NDR)	1.4998	0.2988(NDR)	5.35	1.0798	2.8398
1,2,3,7,8,9-HXCDD (225)	0.732(NDR)	0.917(NDR)	1.34(NDR)	0.373(NDR)	1.83(NDR)	0.653(NDR)	3.09(NDR)	1.17(NDR)	2.48(NDR)
1,2,3,7,8,9-HXCDD	0.55	0.754(NDR)	1.035	0.312	1.325(NDR)	0.547(NDR)	3.64	0.849	2.205
1,2,3,4,6,7,8-HPCDD	4.86	5.74	10.26	2.8	14.76	6.74	26.915	12.26	20.86
OCDD	24.454	27.054	83.054	21.854	104.554	60.454	186.826	100.554	136.554
2,3,7,8-TCDF (225)	0.559	0.601	0.72	0.258	0.747	0.11	2.38	0.428	1.29
2,3,7,8-TCDF	0.736	0.924	1.1(NDR)	0.367	1.19	0.192(NDR)	3.27	0.667(NDR)	1.96
1,2,3,7,8-PECDF	0.0216	0.2394(NDR)	0.0824	< 0.08	0.0864	< 0.046	0.451	0.0342	0.1454
2,3,4,7,8-PECDF	0.102	0.261(NDR)	0.218(NDR)	< 0.08	0.21(NDR)	< 0.046	0.545	0.0845(NDR)	0.279
1,2,3,4,7,8-HXCDF	0.0923	0.2063(NDR)	0.1693	0	0.1793	< 0.046	0.601	0.1073	0.3203
1,2,3,6,7,8-HXCDF	0.0804	0.278(NDR)	0.14(NDR)	< 0.047	0.118	< 0.046	0.487	0.115(NDR)	0.219
1,2,3,7,8,9-HXCDF	0	0.2009	0.0139	< 0.047	0.0049(NDR)	< 0.046	0.2661	0	0
2,3,4,6,7,8-HXCDF	0.0835	0.36	0.144	< 0.047	0.17	< 0.046	0.525	0.138(NDR)	0.222
1,2,3,4,6,7,8-HPCDF	1.043	1.283(NDR)	2.173	0.436	2.353	0.421	5.3957	2.073	4.463
1,2,3,4,7,8,9-HPCDF	0.0517	0.332(NDR)	0.126	< 0.047	0.121(NDR)	0.0553(NDR)	0.415	0.0965(NDR)	0.214
OCDF	1.53	1.95	3.06	0.635	4.76	1.45(NDR)	7.9412	4.41	6.93
TOTAL TETRA-DIOXINS	0.973	0.731	1.71	0.751	2.62	2.27	5.16	2.86	5.03
TOTAL PENTA-DIOXINS	0.927	1.17	2.51	0.511	2.03	0.539	8.1	1.82	5.24
TOTAL HEXA-DIOXINS	7.315	7.635	11.755	3.465	12.855	4.495	39.8	9.955	27.455
TOTAL HEPTA-DIOXINS	11.16	12.36	24.46	7.37	38.16	19.36	60.915	30.36	51.76
TOTAL TETRA-FURANS	4.43	2.78	3.62	1.53	6.73	0.131	10.9	2.29	7.79
TOTAL PENTA-FURANS	1.53	1.15	2.22	0.258	2.1	0.273	5.09	0.695	4.24
TOTAL HEXA-FURANS	1.5039	1.9739	3.1439	0.5419	3.0139	0.3989	8.5	2.9239	6.0139
TOTAL HEPTA-FURANS	2.468	1.198	5.348	1.068	5.978	0.366	13.4	5.858	11.008

	SRKW19-9	SRKW19-10	SRKW19-11	SRKW19-12	SRKW19-13	SRKW19-14	SRKW19-15	SRKW19-16	SRKW19-17
2,3,7,8-TCDD	0.292	0.265(NDR)	0.198(NDR)	< 0.059	0.182	0.456	0.645	0.487(NDR)	0.112
1,2,3,7,8-PECDD	0.831	1.09	0.682	0.0275(NDR)	0.6066	1.8256	4.25	1.6256	0.1016(NDR)
1,2,3,4,7,8-HXCDD	0.465	0.833(NDR)	0.489	0.114(NDR)	0.447(NDR)	1.04	1.65	0.929(NDR)	0.13
1,2,3,6,7,8-HXCDD	3.8998	5.8798	3.4398	0.499	4.51	15.1	39.3298	12.5	0.54
1,2,3,7,8,9-HXCDD (225)	2.76(NDR)	3.47(NDR)	2.41(NDR)	0.304	2.3	7.88	20.2	6.28	0.18(NDR)
1,2,3,7,8,9-HXCDD	2.705	3.865	2.545	0.399	2.73	8.87	20.625	6.96	0.426
1,2,3,4,6,7,8-HPCDD	22.46	31.46	30.76	4.486	28.046	45.646	82.46	44.446	4.246

	SRKW19-9	SRKW19-10	SRKW19-11	SRKW19-12	SRKW19-13	SRKW19-14	SRKW19-15	SRKW19-16	SRKW19-17
OCDD	161.554	195.554	211.554	37.653	183.653	233.653	352.554	246.653	25.053
2,3,7,8-TCDF (225)	1.89	2.81	1.45	0.223	2.38	7.78	13.9	6.36	0.214
2,3,7,8-TCDF	2.7	4.11	2.02	0.317	3.03	10.2	17.8	8.11	0.466
1,2,3,7,8-PECDF	0.2034	0.2914	0.1704	< 0.059	0.1155	0.4775	0.7874	0.4505	0.0425(NDR)
2,3,4,7,8-PECDF	0.344	0.443	0.27	0.0678(NDR)	0.352	1.01	1.58	0.782	0.1(NDR)
1,2,3,4,7,8-HXCDF	0.3483	0.4053	0.4083	0.0047	0.3662	0.9462(NDR)	1.6863	0.7322	0.0462(NDR)
1,2,3,6,7,8-HXCDF	0.196	0.303	0.311	< 0.059	0.2237	0.5477	0.882	0.5107	0.0477(NDR)
1,2,3,7,8,9-HXCDF	0.0199	0.0199	0	< 0.059	0.049(NDR)	0.088(NDR)	0.0239	0.087	0
2,3,4,6,7,8-HXCDF	0.303	0.43	0.32	< 0.059	0.3525	0.7275	1.32	0.6455	0.0099
1,2,3,4,6,7,8-HPCDF	5.023	7.953	9.453	1.0604	9.0304	12.5004	36.563	14.0004	0.9904
1,2,3,4,7,8,9-HPCDF	0.266	0.316	0.352	0.0067(NDR)	0.3177	0.5717(NDR)	0.872	0.5417	< 0.061
OCDF	7.39	11.27	12.87	1.563	12.793	14.893	34.47	16.393	1.453
TOTAL TETRA-DIOXINS	4.41	6.32	5.02	0.499	2.09	6.18	15.4	8.97	0.324
TOTAL PENTA-DIOXINS	5.49	8.56	5.93	0.231	4.12	15.9	29.3	13.3	0.342
TOTAL HEXA-DIOXINS	33.455	50.055	32.855	3.78	32.9	111	278.855	87.2	4.74
TOTAL HEPTA-DIOXINS	53.76	74.66	72.06	10.6	64.5	95.5	175.86	97.8	9.91
TOTAL TETRA-FURANS	13.7	14.6	9.38	0.762	7.06	26.5	52	23.5	0.933
TOTAL PENTA-FURANS	5.27	7.12	5.57	0.253	5.39	11.3	23.4	11.7	0.9
TOTAL HEXA-FURANS	7.5539	11.3039	12.8039	1.412	11.652	17.252	33.7039	18.852	1.062
TOTAL HEPTA-FURANS	12.508	19.708	25.908	2.92	24.9	29.3	75.308	33.9	2.42

	SRKW19-17 (Duplicate)	SRKW19-18	SRKW19-19	PG19-I5 (AXYS)	SH19-I5	PG19-F1 (AXYS)	PTP2-PH	PTP2-GINP1	PTP2-EH2
2,3,7,8-TCDD	< 0.061	0.181(NDR)	0.449	< 0.156	0.104(NDR)	0.0634(NDR)	0.271(NDR)	0.105(NDR)	0.179
1,2,3,7,8-PECDD	0.2226	0.2006	1.3156	0.3226(NDR)	0.1836(NDR)	0.0676(NDR)	1.4556	0.1736(NDR)	0.2356(NDR)
1,2,3,4,7,8-HXCDD	0.204(NDR)	0.205	0.656	0.364(NDR)	0.194(NDR)	0.128	1.02(NDR)	0.135(NDR)	0.196
1,2,3,6,7,8-HXCDD	0.635	0.9	10.3	1.9	0.928	0.516	8.69	1.17	1.04
1,2,3,7,8,9-HXCDD (225)	0.424(NDR)	0.902(NDR)	5.1	1.09	0.641	0.512(NDR)	4.47	0.759	0.566(NDR)
1,2,3,7,8,9-HXCDD	0.579	0.912	5.82	1.44	0.936	0.438	5.04	0.691	0.767(NDR)
1,2,3,4,6,7,8-HPCDD	4.276	8.336	33.946	14.846	8.226	5.976	76.046	4.946	8.206
OCDD	26.153	47.253	195.653	109.653	56.553	45.653	457.653	29.153	46.853
2,3,7,8-TCDF (225)	0.231	0.536	5.3	0.933	0.508	0.215	4.17	0.597	0.47
2,3,7,8-TCDF	0.499	0.859	6.87	1.4	0.739	0.324	5.99	0.827	0.793
1,2,3,7,8-PECDF	0.0735	0.0875(NDR)	0.3575(NDR)	0.1225	0.041	0.0209(NDR)	0.3675	0.0361	0.0815
2,3,4,7,8-PECDF	0.141(NDR)	0.183(NDR)	0.598(NDR)	0.205	0.119	< 0.059	0.791	0.0995	0.157
1,2,3,4,7,8-HXCDF	0.1172	0.1522(NDR)	0.7472	0.1632(NDR)	0.0812(NDR)	0.0238(NDR)	0.9092	0.0982	0.2172
1,2,3,6,7,8-HXCDF	0.0927	0.0587	0.3097	0.0807(NDR)	0.0587(NDR)	< 0.059	0.4717	0.0607(NDR)	0.1197
1,2,3,7,8,9-HXCDF	0.052	0.0213(NDR)	0.061(NDR)	0.037	0.0042(NDR)	0.002(NDR)	0.11	0.027	0.0019
2,3,4,6,7,8-HXCDF	0.0605	0.0485	0.4685	0.1305	0.0208	0	0.8285	0.0247(NDR)	0.0685(NDR)
1,2,3,4,6,7,8-HPCDF	1.2104	2.0104	9.3504	3.0504	1.8804	1.0604	12.0004	1.0604	3.1404
1,2,3,4,7,8,9-HPCDF	0.0737	0.0467(NDR)	0.3897	0.1167(NDR)	0.0379	< 0.059	0.5437	< 0.06	0.0857(NDR)

	SRKW19-17 (Duplicate)	SRKW19-18	SRKW19-19	PG19-I5 (AXYS)	SH19-I5	PG19-F1 (AXYS)	PTP2-PH	PTP2-GINP1	PTP2-EH2
OCDF	1.543	3.103	12.993	5.013	3.203	1.563	22.493	1.423	3.363
TOTAL TETRA-DIOXINS	0.542	0.838	5.31	0.957	1.72	0.381	3.22	0.288	3.63
TOTAL PENTA-DIOXINS	0.287	1.04	7.23	1.68	0.802	0.323	8.87	0.652	1.33
TOTAL HEXA-DIOXINS	4.85	9.07	71.6	15.4	8.77	4.63	65.7	8.67	8.02
TOTAL HEPTA-DIOXINS	10.4	19.5	77.5	36.8	19.7	13.7	204	12.2	20.4
TOTAL TETRA-FURANS	1.91	3.73	16.6	3.99	2.62	0.659	18.5	2.61	2.94
TOTAL PENTA-FURANS	1.03	0.806	3.46	2.8	1.21	0.692	14.3	0.378	2.05
TOTAL HEXA-FURANS	1.272	2.062	13.052	3.392	1.792	0.942	16.252	1.162	3.342
TOTAL HEPTA-FURANS	2.65	4.53	23.2	7.07	5.00	2.67	29.8	2.36	6.68

	PTP2-STH1	PTP2-SI1	SH19-A2	SH19-P6	SH19-R15	SH19-R30	PG19-A4 (AXYS)	PG19-G6 (AXYS)	PG19-G6 (AXYS) (Duplicate)	PG19-M4 (AXYS)
2,3,7,8-TCDD	0.102(NDR)	< 0.058	0.0484	0.0926(NDR)	0.0987(NDR)	0.114	0.161(NDR)	0.124(NDR)	0.128(NDR)	0.157(NDR)
1,2,3,7,8-PECDD	0.1066	< 0.06	0.118	0.249	0.172	0.298(NDR)	0.364(NDR)	0.228(NDR)	0.29(NDR)	0.455
1,2,3,4,7,8-HXCDD	0.148(NDR)	< 0.058	0.173	0.23	0.139	0.234	0.375	0.253	0.309	0.336
1,2,3,6,7,8-HXCDD	0.334	0.166	0.408	0.874	0.692	1.39	2.69	1.05	1.01	2.65
1,2,3,7,8,9-HXCDD (225)	0.539	0.091(NDR)	0.508	0.529	0.531	0.86	1.17	0.746	0.834	1.55
1,2,3,7,8,9-HXCDD	0.818	0.148	0.745	0.941	0.714	1.17	1.73	1.03	1.14	1.84
1,2,3,4,6,7,8-HPCDD	8.266	1.906	9.084	10.694	6.954	10.694	32.094	12.694	11.294	18.394
OCDD	123.653	12.253	85.092	83.792	55.192	71.092	186.792	104.792	100.792	120.792
2,3,7,8-TCDF (225)	0.081	0.085	0.11	0.373	0.354	0.73	0.978	0.423	0.431	1.48
2,3,7,8-TCDF	0.118(NDR)	0.126(NDR)	0.156	0.583	0.559	1.12	1.48	0.623	0.659	1.92
1,2,3,7,8-PECDF	< 0.063	< 0.058	< 0.047	0.0562	0.0765	0.126	0.144	0.0711	0.104	0.11
2,3,4,7,8-PECDF	< 0.063	< 0.058	< 0.047	0.0925	0.0697	0.145(NDR)	0.201	0.0869	0.162	0.169
1,2,3,4,7,8-HXCDF	< 0.063	< 0.058	< 0.047	0.132	0.1(NDR)	0.179	0.62	0.134	0.221	0.307
1,2,3,6,7,8-HXCDF	< 0.063	< 0.058	< 0.047	0.0805	0.0687(NDR)	0.0908	0.291	0.105	0.193	0.156
1,2,3,7,8,9-HXCDF	< 0.063	< 0.058	0.056	0.0587	0.0494	0.0519(NDR)	0.0896	< 0.051	0.145(NDR)	0.0536(NDR)

	PTP2-STH1	PTP2-SI1	SH19-A2	SH19-P6	SH19-R15	SH19-R30	PG19-A4 (AXYS)	PG19-G6 (AXYS)	PG19-G6 (AXYS) (Duplicate)	PG19-M4 (AXYS)
2,3,4,6,7,8-HXCDF	< 0.063	< 0.058	< 0.047	0.0713	0.0628	0.134(NDR)	0.367	0.0887	0.189	0.255
1,2,3,4,6,7,8-HPCDF	0.3294	0.6704	0.5242	1.4532	1.0632	1.9632	46.3432	1.9032	2.2732	4.6432
1,2,3,4,7,8,9-HPCDF	< 0.063	< 0.058	< 0.047	0.076(NDR)	0.0672	0.0877	1.22	0.125	0.173	0.255
OCDF	1.053	1.173	1.4973	2.8173	1.9573	3.4873	141.9473	3.3673	3.3673	7.3673
TOTAL TETRA-DIOXINS	0.0955	0.554	2.97	2.24	1.64	2.72	4.09	2.23	2.62	3.4
TOTAL PENTA-DIOXINS	0.675	0.213	1.49	1.75	1.53	1.56	3.5	2.12	0.75	3.27
TOTAL HEXA-DIOXINS	5.53	1.63	6.6	9.65	7.02	12.5	21.4	11.3	10.8	22.2
TOTAL HEPTA-DIOXINS	21.9	4.51	23.994	27.394	16.094	25.294	62.494	31.694	28.994	42.994
TOTAL TETRA-FURANS	< 0.063	< 0.058	0.34	2.07	2.02	4.2	6.27	2.52	2.04	7.06
TOTAL PENTA-FURANS	0.149	0.321	0.078	1.07	0.456	1.82	4.7	1.39	1.48	3.24
TOTAL HEXA-FURANS	0.325	0.307	0.633	1.93	1.33	2.6	37.9	2.37	3.27	6.57
TOTAL HEPTA-FURANS	1.16	2.35	1.64	3.72	2.68	4.72	208	5.21	5.61	12.8

Table 19. Sediment samples from Sand Heads (SH) and Point Grey (PG) disposal sites, and inside and outside Southern Resident Killer Whale (SRKW) Critical Habitat sites were analyzed for Alkylphenols (APs). All values are reported in pg/g dry weight. < = values below reporting limit (RL).

	SRKW19-1	SRKW19-2	SRKW19-3	SRKW19-4	SRKW19-5	SRKW19-6	SRKW19-7	SRKW19-8	SRKW19-9
4-Nonylphenols	3.27	4.41	0.694	5.61	1.42	8.25	11.4	4.93	7.05
4-Nonylphenol monoethoxylates	< 0.4	< 0.53	< 0.465	2.66	< 0.398	< 0.856	4.77	8.25	3.19
4-Nonylphenol diethoxylates	1.93	< 0.437	< 0.543	< 0.468	< 0.504	< 1.76	5.26	< 0.982	< 6.63
4-n-Octylphenol	< 0.0758	< 0.0757	< 0.0539	0.205	< 0.0613	< 0.0873	< 0.0992	< 0.137	< 0.0863

	SRKW19-10	SRKW19-11	SRKW19-12	SRKW19-13	SRKW19-14	SRKW19-15	SRKW19-15 (Duplicate)	SRKW19-16	SRKW19-17
4-Nonylphenols	10.4	23.4	0.477	12.2	6.21	8.93	10.4	8.79	0.7
4-Nonylphenol monoethoxylates	4.62	11.4	< 1.14	< 0.911	< 1.99	3.94	< 1.23	< 1.37	< 0.889
4-Nonylphenol diethoxylates	8.44	5.15	< 3.1	< 1.97	< 4.87	< 0.904	< 1.06	< 1.7	< 0.933
4-n-Octylphenol	< 0.0563	< 0.143	< 0.121	< 0.276	< 0.256	< 0.0967	< 0.163	< 0.187	< 0.221

	SRKW19-17 (Duplicate)	SRKW19-18	SRKW19-19	PTP2-PH	PTP2-GINP1	PTP2-EH2	PTP2-STH1	PTP2-SI1
4-Nonylphenols	0.676	1.31	5.32	3.08	0.65	3.12	< 0.194	< 0.21
4-Nonylphenol monoethoxylates	< 1.06	< 0.882	< 2.32	3.79	< 0.962	< 0.59	< 1.52	< 0.359
4-Nonylphenol diethoxylates	< 1.25	< 2.51	< 1.92	< 4.11	< 0.915	< 1.7	< 2.75	< 0.425
4-n-Octylphenol	< 0.129	< 0.379	< 0.402	< 0.443	< 0.146	< 0.152	< 0.118	< 0.0462

Table 20. Sediment samples from Sand Heads (SH) and Point Grey (PG) disposal sites, and inside and outside Southern Resident Killer Whale (SRKW) Critical Habitat sites were analyzed for Chloroparaffins. All values are reported in ng/g dry weight. < = values below reporting limit (RL).

	SER181212	CMB181221	HAR190319	PTP2-SI1	PTP2-STH1
Total Short-chain Chloroparaffin	144.4	109.4	29.6	15.4	21.8
Total Medium-chain Chloroparaffin	169.97	127.97	58.77	26.77	48.77
Total Long-chain Chloroparaffin	67.6	35	14.1	3.67	6.36
Total Chloroparaffin	553.36	357.36	192.36	75.96	211.36

Table 21. Sediment samples from Sand Heads (SH) and Point Grey (PG) disposal sites, and inside and outside Southern Resident Killer Whale (SRKW) Critical Habitat sites were analyzed for 3 tributyltins (TBTs). All values are reported in ng/g dry weight. < = values below reporting limit (RL).

	SRKW19-1	SRKW19-2	SRKW19-2 (Duplicate)	SRKW19-3	SRKW19-4	SRKW19-5	SRKW19-6	SRKW19-7	SRKW19-8
Tributyltin Chloride	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Dibutyltin dichloride	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Monobutyltin trichloride	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TBT+	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
DBT++	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
MBT+++	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001

	SRKW19-9	SRKW19-10	SRKW19-11	SRKW19-12	SRKW19-12 (Duplicate)	SRKW19-13	SRKW19-14	SRKW19-15	SRKW19-16
Tributyltin Chloride	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Dibutyltin dichloride	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Monobutyltin trichloride	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TBT+	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
DBT++	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
MBT+++	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001

	SRKW19-17	SRKW19-18	SRKW19-19	PTP2-PH	PTP2-GINP1	PTP2-EH2	PTP2-STH1	PTP2-SI1
Tributyltin Chloride	< 0.001	< 0.001	< 0.001	0.015	< 0.001	< 0.001	< 0.001	< 0.001
Dibutyltin dichloride	< 0.001	< 0.001	< 0.001	0.005	< 0.001	< 0.001	< 0.001	< 0.001
Monobutyltin trichloride	< 0.001	< 0.001	< 0.001	0.001	< 0.001	< 0.001	< 0.001	< 0.001
TBT+	< 0.001	< 0.001	< 0.001	0.013	< 0.001	< 0.001	< 0.001	< 0.001
DBT++	< 0.001	< 0.001	< 0.001	0.004	< 0.001	< 0.001	< 0.001	< 0.001
MBT+++	< 0.001	< 0.001	< 0.001	0.001	< 0.001	< 0.001	< 0.001	< 0.001

Table 22. Concentrations (ng/g dw) for ∑PCBs, ∑PBDEs, ∑PAHs, ∑PCDD, PCDF for the ten disposal sites that were analyzed by SGS AXYS Analytical Ltd. (AXYS) and Maxxam Analytics Inc. (Maxxam). Total values are shown for the total number of congeners reported by each lab for each contaminant class and total values for common congeners (7 PCBs, 5PBDEs, 11PAHs, 4 PCDDs, and 0 PCDFs) reported by both labs for each contaminant class.

	∑PCBs		**∑PBDEs**		**∑PAHs**		**∑PCDD**		**∑PCDF**	
Sites	$AXYS_{159}$	$Maxxam_{165}$	$AXYS_{40}$	$Maxxam_{36}$	$AXYS_{76}$	$Maxxam_{16}$	$AXYS_{7}$	$Maxxam_{7}$	$AXYS_{10}$	$Maxxam_{10}$
PG19-A4										
All congeners	1.3141	0.5775	2.6373	2.1722	749.73	135.80	0.2242	0.1495	0.1927	0.0168
Common congeners	0.3879	0.1847	2.2687	1.6970	109.38	119.70	0.2233	0.1487		
PG19-F1										
All congeners	0.6989	0.2510	0.3316	0.2938	884.26	75.36	0.0528	0.0186	0.0030	0.0006
Common congeners	0.1630	0.0829	0.2687	0.2659	96.61	64.30	0.0526	0.0186		
PG19-G6										
All congeners	0.7300	0.3056	2.2319	2.4730	477.88	100.66	0.1176	0.1103	0.0070	0.0081
Common congeners	0.2070	0.1300	1.8881	2.1430	65.69	90.30	0.1169	0.1098		
PG19-I5										
All congeners	1.3524	0.2506	0.6422	1.0137	979.73	118.40	0.1285	0.1267	0.0103	0.0147
Common congeners	0.3742	0.1622	0.5601	0.8720	114.53	107.50	0.1278	0.1258		
PG19-M4										
All congeners	1.4753	0.6687	0.9993	1.5277	924.05	143.60	0.1446	0.1752	0.0152	0.0214
Common congeners	0.4336	0.3186	0.8064	1.2180	126.48	126.80	0.1437	0.1741		
SH19-A2										
All congeners	0.1747	0.0451	0.2821	0.2315	293.56	45.83	0.0957	0.0947	0.0022	0.0020
Common congeners	0.0444	0.0272	0.2299	0.2210	33.11	43.60	0.0953	0.0947		
SH19-I5										
All congeners	0.8208	0.5248	0.4098	0.7814	985.37	142.90	0.0671	0.0972	0.0062	0.0088
Common congeners	0.2350	0.1860	0.3803	0.5585	139.20	128.20	0.0666	0.0963		
SH19-P6										
All congeners	0.6437	0.5549	0.8127	0.9073	585.50	132.10	0.0969	0.1813	0.0054	0.0089
Common congeners	0.1806	0.1647	0.6826	0.7440	71.14	117.70	0.0963	0.1805		
SH19-R15										
All congeners	0.5190	0.3471	0.6512	0.2347	472.80	44.20	0.0640	0.0784	0.0041	0.0065
Common congeners	0.1508	0.1046	0.5478	0.2298	53.26	42.30	0.0636	0.0775		
SH19-R30										
All congeners	0.9243	0.6842	0.5263	1.6067	840.46	131.10	0.0850	0.1666	0.0074	0.0140
Common congeners	0.2695	0.2248	0.4078	1.3840	101.15	118.90	0.0843	0.1651		
All congeners										
Average ± SE	0.8653 ± 0.1294	0.4209 ± 0.0668	0.9524 ± 0.2581	1.1241 ± 0.2532	719.33 ± 77.57	107.0 ± 12.26	0.1076 ± 0.0159	0.1198 ± 0.0160	0.0254 ± 0.0186	0.0102 ± 0.0021
% difference (fold)	**+ 206% (2.06x)**			**+ 118% (1.18x)**	**+ 672% (6.72x)**			**+ 111% (1.11x)**	**+ 249% (2.49x)**	
Common congeners										

Average ± SE **% difference (fold)**	0.2446 ± 0.0387 **+ 154%** **(1.54x)**	0.1586 ± 0.0254	0.8040 ± 0.2214	0.9333 ± 0.2097 **+ 116%** **(1.16x)**	91.06 ± 10.76	95.93 ± 10.72 **+ 105%** **(1.05x)**	0.1070 ± 0.0159	0.1191 ± 0.0159 **+ 111%** **(1.11x)**