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San Juan River Fish Tissue Study

2024 Report



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Acronyms

COC	contaminants of concern
CSF	cancer slope factor
DDD	dichlorodiphenyldichloroethane
DDE	dichlorodiphenyldichloroethylene
DDT	dichlorodiphenyltrichloroethane
DQOs	data quality objectives
EDD	electronic data deliverable
g	gram
GC/MS	gas chromatography/mass spectrometry
GKM	Gold King Mine
ICP/MS	inductively coupled plasma/mass spectrometry

LCS	laboratory control samples
LDC	Laboratory Data Consultants, Inc.
MDL	method detection limit
mg/kg	milligrams per kilogram
mm	millimeter
MS/MSD	matrix spike/matrix spike duplicate
ND	not detected
ng/g	nanograms per gram
ng/L	nanograms per liter
NMDGF	New Mexico Department of Game and Fish
NNDFW	Navajo Nation Department of Fish and Wildlife
NNEPA	Navajo Nation Environmental Protection Agency
OC	organochlorine
oz	ounce
pg/g	picograms per gram
PCB	polychlorinated biphenyl
PFAS	per- and polyfluoroalkyl substances
PFOA	perfluorooctanoic acid
PFOS	perfluorooctane sulfonate
pg/L	picograms per liter
QA	quality assurance
QAPP	Quality Assurance Project Plan
QC	quality control
QL	quantitation limit
%R	percent recoveries
RFD	reference dose
RL	reporting limit
RPD	relative percent difference
SDG	sample delivery group
SOPs	standard operating procedures
USEPA	United States Environmental Protection Agency
µg/kg	micrograms per kilogram
µg/L	micrograms per liter

Executive Summary

The human health benefits associated with eating fish are well known. Fish are a good source of protein and essential nutrients including omega-3 fatty acids and therefore can be an important part of a nutritionally balanced diet. Fish consumption can also be a source of human exposure to persistent, bioaccumulative, and toxic chemicals, therefore it is important to consider the risks as well as the benefits of eating fish. Health protection agencies and natural resource agencies are tasked with monitoring and protecting human health within their jurisdictions by issuing fish consumption advisories that include recommendations to limit or avoid consumption of fish if contaminants are present. Those advisories are intended to protect the general population (including recreational and subsistence fishers) and sensitive subpopulations (including pregnant women, nursing mothers, and children) from potential health risks associated with the consumption of contaminated fish.

One event that focused attention on potential fish contamination in the San Juan River watershed was the 2015 Gold King Mine (GKM) wastewater release. The plume from GKM flowed through Navajo Nation lands, subjecting downstream waters to high metal concentrations. Multiple federal and state agencies assessed impacts to the San Juan River following the GKM release, including the U.S. Environmental Protection Agency (USEPA). USEPA included post-release fish tissue monitoring results in their *2018 Analysis of the Biological Data Collected from the Animas and San Juan Rivers Following the Gold King Mine Release*. They reported that many metals were significantly elevated in certain tissues of some fish species. Concerns remained regarding possible resuspension and remobilization of metals in sediments, and latent exposures to aquatic life or humans. The Navajo Nation Environmental Protection Agency (NNEPA) recognizes the importance of recreation in the San Juan River basin, including fishing, and the potential exposure of humans to contaminants through fish consumption. It is because of that recreational importance and the possibility of latent human exposure to metal contamination that NNEPA designed and conducted the San Juan River Fish Tissue Contaminant Study in 2017. The goal of that study was to provide a screening level assessment of metals in fish fillet tissue to help identify the prevailing human health risk associated with fish consumption subsequent to the GKM release.

To build upon (and add to) the knowledge gained from the 2017 San Juan River Fish Tissue Contaminant Study and to assess contemporary contaminant levels in fish, NNEPA and Tetra Tech conducted an expanded study in the San Juan River watershed. Whereas the 2017 study assessed metals only in fish from two reaches of the San Juan River, the 2024 San Juan River Fish Tissue Study included additional contaminants of concern (COCs) known to bioaccumulate in fish and expanded spatial coverage to a nearly 325-kilometer (or approximately 200-mile) river reach.

This study was not designed to determine causes or locate sources of fish tissue contamination and is not intended to establish fish consumption advisories.

A total of 25 composite fish samples (110 total fish) were collected, filleted, and analyzed for 23 metals, 209 polychlorinated biphenyl (PCB) congeners, 27 organochlorine (OC) pesticide compounds, and 40 per- and polyfluoroalkyl substances (PFAS). Results showed that:

- Nine of the 23 target metals were detected in all fillet fish tissue composite samples (i.e., arsenic, calcium, copper, magnesium, mercury, potassium, selenium, sodium, and zinc).
- Lessons learned from the 2017 study led to analytical method changes for the current study to increase sensitivity and lower reporting limits for selected metals (to allow comparisons to all

risk-based consumption categories and limits), and as a result, arsenic, selenium, and mercury were detected in all samples.

- Arsenic levels in fillet composites ranged from 0.018 to 0.193 mg/kg, selenium levels were between 0.33 and 0.688 mg/kg, and mercury levels ranged from 0.058 and 0.257 mg/kg.
- Mercury, arsenic, and selenium were ubiquitous throughout the study area; however, interspecies comparisons showed that mercury levels were highest in Flannemouth Sucker composites and arsenic concentrations were consistently higher in Bluehead Suckers collected from all river reaches than all other species.
- PCBs (i.e., the sum of 209 congeners and hereafter referred to as total PCBs) were present in all fish fillet composites from all the sampled reaches, with levels ranging from 1,940 to 81,100 picograms per gram (pg/g).
- Total PCB levels were below 20,000 pg/g in most samples, but there was a single outlier for an Animas River Flannemouth Sucker sample (81,100 pg/g). In the San Juan River, Flannemouth Sucker results show a pattern of increasing total PCB concentrations with each successive downstream reach.
- OC pesticides results indicated that total chlordane was not detected in fish from the study area. Dichlorodiphenyltrichloroethane (DDT) was detected in five of the 25 fillet composite samples; however, although frequency of occurrence was low, elevated DDT levels were measured in one Flannemouth Sucker sample and one Common Carp sample from San Juan River reaches.
- PFAS evaluations focused on perfluorooctane sulfonate (PFOS), the predominant PFAS found in fish. PFOS levels for all species in all reaches were less than 3 nanograms per gram (ng/g). The highest value was recorded for a Common Carp composite sample, and PFOS concentrations were lowest overall in Channel Catfish.
- Total mercury and total PCB results showed a positive relationship of increasing levels with increasing fish age; however, there was no association between fish age and PFOS levels. Age relationship evaluations were not possible for DDT due to low detection frequencies.

USEPA human health risk-based fish consumption limits (or screening levels) are published and available for four of the target metals (arsenic, cadmium, mercury, and selenium), total PCBs, total chlordane, and total DDT. The human health screening level applied for mercury was the USEPA fish tissue-based water quality criterion for methylmercury, and is the same threshold used by the states of New Mexico and Utah in their fish consumption advisory programs. It is important to note that published USEPA consumption advice and human health benchmarks were applied here, which may not reflect the consumption patterns of selected local populations or a subsistence fishing community; however, they are appropriate (based on goals of the study) for a screening level assessment of fish tissue contaminants. Risk-based thresholds and guidelines vary between areas and agencies and can change over time. They are dynamic, in that they may change as new chemical, toxicological, and epidemiological information becomes available. Evaluations applying USEPA risk-based consumption limits showed that:

- Mercury results for all species in all river reaches were below the USEPA 0.3 milligrams per kilogram (mg/kg) fish tissue-based water quality criterion.

- Arsenic results show that Bluehead Sucker samples from all San Juan River reaches are in the “do not eat” category (when considering a >0.13 mg/kg health benchmark). Recommended consumption limits show a threshold of 2–3 meals per month for Brown Trout, 1–2 meals for Channel Catfish, and 1 meal or less per month for Common Carp and Flannemouth Suckers.
- Selenium concentrations for all samples and species are in the 1–2 meal per month consumption categories.
- Chlordane was not detected in any sampling reaches; therefore, no consumption restrictions apply.
- DDT was detected in only 5 samples and the highest levels for San Juan River Flannemouth Suckers and Common Carp are in the 8 meal per month and 16 meal per month consumption categories, respectively. Results for all other samples and species were in the unrestricted consumption category.
- Total PCB levels in most species and samples are in the 2–4 meals per month categories; however, results for Flannemouth Sucker samples from two San Juan River reaches are in the 1 meal per month and < 1 meal per month consumption categories.
- PFOS levels in fillet samples from this study ranged from not detected (ND) to 2.9 ng/g. USEPA (2024a and 2024b) published perfluorooctanoic acid (PFOA) and PFOS freshwater ambient water quality criteria for the protection of aquatic life; however, there are currently no published USEPA human health risk-based fish consumption limits for PFAS. To provide perspective, all PFOS concentrations for this study were below the national median concentration of 3.07 ng/g that was reported for USEPA’s 2018–2019 National Rivers and Streams Assessment.

The results of this San Juan River Fish Tissue Study indicate that human health risk from recreational consumption of San Juan River fish exists (with respect to the targeted COCs), is relatively low, and may be minimized by reducing meal frequency or restricting consumption of certain species shown to have higher body burdens of COCs. The results presented here provide current information on COCs in San Juan River fish fillet tissue, provide baseline data for any future studies of temporal trends, and offer perspective on human health protection.

1 Introduction

1.1 Background

The Navajo Nation covers over 27,000 square miles of land in New Mexico, Arizona, and Utah, and the Navajo Nation Environmental Protection Agency (NNEPA) is charged with the protection of human health and the environment associated with those lands. One event that triggered a need for environmental assessments and monitoring of Navajo Nation waters was the Gold King Mine (GKM) wastewater release of August 5, 2015. At that time, the U.S. Environmental Protection Agency (USEPA) was conducting a study of the GKM near Silverton, Colorado to evaluate water releases from the mine and to assess the viability of additional mine remediation. During excavation activities, pressurized water began leaking, releasing approximately three million gallons of water into Cement Creek, a tributary of the Animas River. From the Cement Creek confluence, the Animas River flows for 126 miles and ends in Farmington, New Mexico, where it meets the San Juan River. The GKM plume flowed from the release site, through tribal lands, and over a total distance of approximately 342 miles in a nine-day period (USEPA 2017). The NNEPA, USEPA, and many other natural resource entities have studied the GKM effects on water quality following that release.

USEPA's initial monitoring efforts associated with the GKM release began in the fall of 2015 and continued through the fall of 2016 (USEPA 2017 and 2018). Those efforts focused on identifying changes in water quality, sediment, and biological condition to characterize potential impacts following the GKM release. Monitoring efforts focused on assessing the condition of sites downstream of GKM as compared to water quality standards and sediment risk benchmarks. USEPA (2017) reported that the GKM release included aluminum, iron, manganese, lead, copper, arsenic, zinc, cadmium, and some mercury. Their samples did not exceed USEPA recreational screening levels; however, there were sporadic exceedances of State and Tribal water quality standards over a nine-month period in some locations. In USEPA's biological data report (USEPA 2018), they reported that many metals were significantly elevated in the livers of sucker species and in fish muscle tissue of Speckled Dace (*Rhinichthys osculus*) in 2015; however, by the following spring and fall, metals in fillet samples were similar to pre-release concentrations. USEPA began engaging with State and Tribal partners during that time to discuss expanding the monitoring to better focus on the concerns of local stakeholders in their jurisdictions. Their reports encouraged future watershed-scale monitoring efforts by local stakeholders in the areas affected by the GKM release to ensure the protection of public health and the environment.

In 2017, NNEPA and Tetra Tech conducted a fish tissue contaminant study in the San Juan River to provide a screening level assessment of metals in fish (NNEPA and Tetra Tech 2017). The focus of that study was on prevailing human health risk associated with fish consumption subsequent to the GKM release and was based on monitoring metals in fish fillets (specifically metals relevant to the GKM release). Results showed that mercury concentrations in Channel Catfish (*Ictalurus punctatus*) fillet samples were below USEPA's fish tissue-based water quality criterion (USEPA 2006b). At least for that single species and for the target metals, the 2017 fish fillet tissue results indicated that human health risk from recreational consumption of fish from the studied reach of the San Juan River fish was low in 2017.

NNEPA and Tetra Tech conducted an expanded fish tissue contaminant study in the San Juan River watershed for the Navajo Nation during Fiscal Years 2023 and 2024. The 2024 San Juan River Fish Tissue

Study was designed to monitor contemporary contaminant levels in fish, assess prevailing human health risk associated with fish consumption, and build upon (and add to) the knowledge gained from the 2017 San Juan River Fish Tissue Contaminant Study (NNEPA and Tetra Tech 2017). Whereas the 2017 study included metals only and two reaches of the San Juan River (i.e., an upstream reach in New Mexico and a downstream reach in Utah), the expanded study detailed herein includes additional contaminants of concern (COCs) that are known to bioaccumulate in fish, and expands spatial coverage to a nearly 325-kilometer river reach (i.e., including the Animas River downstream from Aztec, New Mexico and the San Juan River from the Animas River confluence to Clay Hills, Utah).

1.2 Study Objectives

The planning phase for the expanded San Juan River fish tissue contaminant study began in September 2021 with the development of the Field Sampling Quality Assurance Project Plan (QAPP) (Tetra Tech 2021). Interaction and coordination with the Navajo Nation Department of Fish and Wildlife (NNDFW) and confirmation of their participation was crucial to ensure successful design, planning, and implementation phases of the study. Discussions with NNDFW focused on study objectives, sampling access in six potential river reaches, and scheduling advice (i.e., optimal timing from ecological, meteorological, river flow, and safety perspectives).

The objectives of the 2024 San Juan River Fish Tissue Study (hereafter referred to as the study) were to characterize current contaminant levels in fish, assess human health risk associated with fish consumption, and provide baseline data for any future studies of temporal trends. The study design objectives increased the number of target species, expanded the list of target chemicals, and extended the sampling area, building upon knowledge gained from the 2017 study. The current design objectives sought to answer the following questions:

- Which COCs are bioaccumulating in fish from the study area?
- What are the concentrations of these COCs in fish fillet tissue?
- How do these concentrations compare to available risk-based fish consumption limits and human health protection thresholds?

In addition to the target metals from the 2017 study, this study considered other COCs that are persistent, bioaccumulative, and toxic, are known to be widely distributed in the environment, and/or have been recently recognized by the scientific community as COCs. Additionally, the list of analytes includes chemicals that have comparative human health criteria to evaluate the human health risks associated with fish consumption. Contemporary national probabilistic fish tissue studies (USEPA 2009) have demonstrated that (in addition to mercury) PCBs and selected OC pesticides (e.g., Dichlorodiphenyltrichloroethane [DDT] and chlordane) are commonly detected in fish fillets, and in some cases at levels above human health protection thresholds (particularly mercury and total PCBs). In addition, PFAS have received scientific and regulatory attention due to their broad environmental distribution, persistence, bioaccumulative potential, and toxicity (Stahl et al. 2014). Studies suggest that fish consumption may be a source of human exposure to perfluorooctane sulfonate (PFOS) or other long-chain PFAS (Hart et al. 2008, Haug et al. 2010, Holzer et al. 2011). The expanded list of the target analytes also considered contaminants that are known to be included in fish consumption advisories in New Mexico and Utah, i.e., arsenic, DDT, mercury, and total PCBs (<https://www.env.nm.gov/surface-water-quality/fish-consumption-advisories/>; <https://deq.utah.gov/water-quality/utah-fish-advisories>).

2 Study Design and Methods

A detailed description of the sampling design can be found in the *Quality Assurance Project Plan: Sample Collection Activities for the 2021–2023 San Juan River Fish Tissue Study (Volume 1 of 2)* (Tetra Tech 2021) which was approved by USEPA Region 9. The sample collection activities QAPP followed *Guidance on Systematic Planning Using the Data Quality Objectives Process* (USEPA 2006a) to establish performance or acceptance criteria, which served as the basis for designing a plan for collecting data of sufficient quality and quantity to support the goals of a study. Study goals were defined by NNEPA, and the study design was refined and finalized in collaboration with NNDFW and Tetra Tech. The schedule was based on NNDFW expertise regarding optimal times for sampling. The schedule accounted for preferred temperatures and flows for sampling efficiency and avoided sampling during the spawning season of federally endangered and state protected Razorback Suckers (*Xyrauchen texanus*).

A total of six sampling reaches were targeted for study. Location, access, and the anticipated success for fishing were considered, with a goal of collecting fish species that are commonly consumed by humans. NNDFW fisheries crews were able to access and sample one Animas River reach and five San Juan River reaches (Table 1; Figure 1).

Table 1. Locations of Animas River and San Juan River Fish Tissue Sampling Reaches

Reach Number	Sampling Reach	Latitude	Longitude	Water Body
1	Aztec (start)	N 36° 49' 14.084"	W 108° 0' 31.698"	Animas River
	Penny Lane (finish)	N 36° 47' 1.079"	W 108° 6' 7.618"	Animas River
2	Westland Park (start)	N 36° 43' 59.345"	W 108° 14' 58.104"	San Juan River
	Lion's Park (finish)	N 36° 43' 18.170"	W 108° 19' 32.430"	San Juan River
3	Hogback (start)	N 36° 44' 45.553"	W 108° 32' 17.628"	San Juan River
	Shiprock (finish)	N 36° 46' 53.641"	W 108° 41' 34.066"	San Juan River
4	Shiprock (start)	N 36° 46' 53.641"	W 108° 41' 34.066"	San Juan River
	Horse Camp (finish)	N 36° 52' 52.575"	W 108° 50' 13.877"	San Juan River
5	Horse Camp (start)	N 36° 52' 52.575"	W 108° 50' 13.877"	San Juan River
	Powerline (finish)	N 36° 57' 56.052"	W 108° 59' 55.144"	San Juan River
6	Mexican Hat (start)	N 37° 8' 49.013"	W 109° 51' 13.219"	San Juan River
	Clay Hills (finish)	N 37° 17' 34.829"	W 110° 23' 58.626"	San Juan River

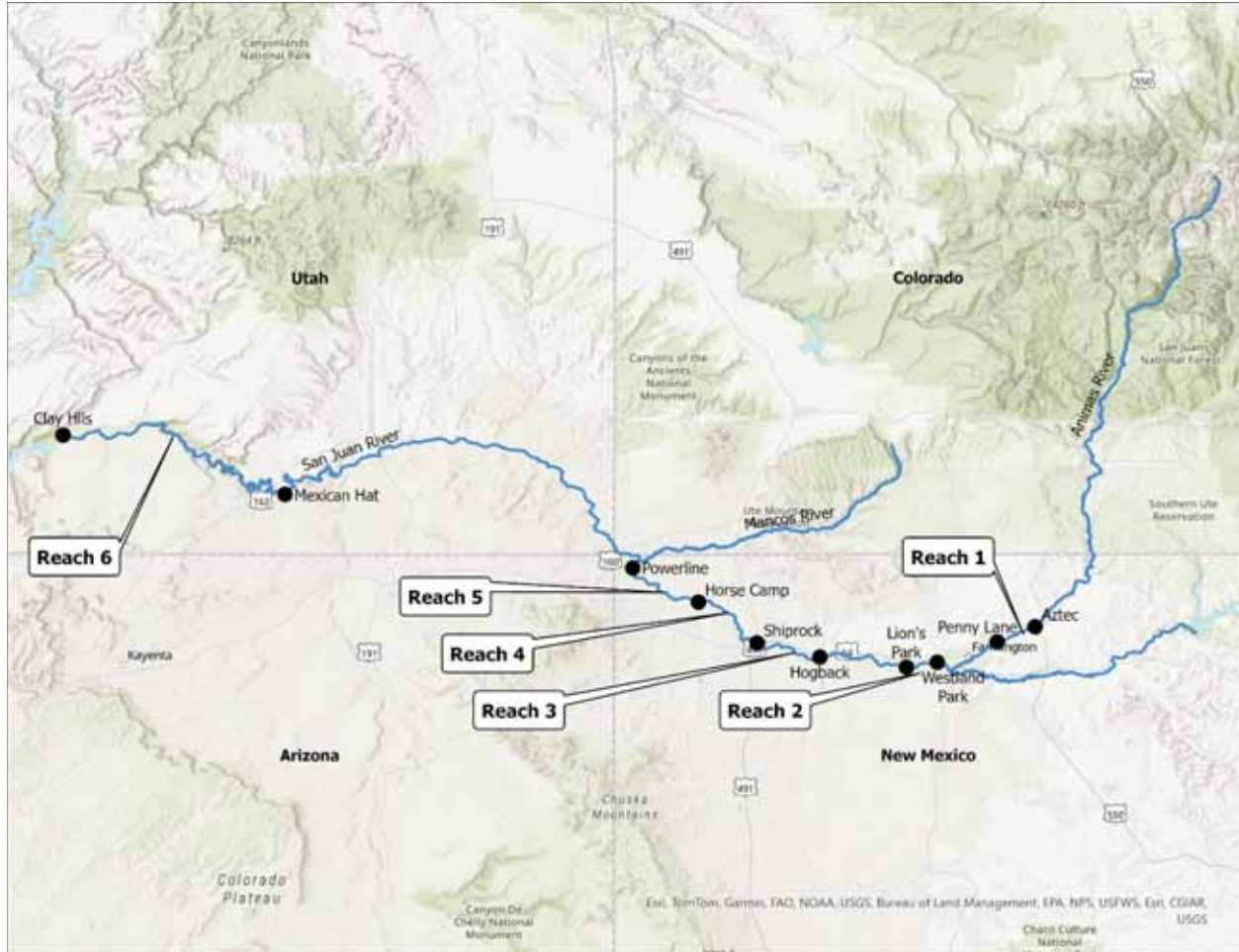


Figure 1. Map of Animas River and San Juan River Fish Tissue Sampling Reaches

The study design called for the collection of multiple composite fish samples from each of the river reaches. Specimen selection and compositing followed the recommendations and methods in USEPA's Fish Consumption Advisory Guidance documents (USEPA 2000a and 2000b) focusing on fishes that are commonly consumed by humans. Composite samples were collected since they are a cost-effective means of estimating average fish tissue concentrations of target analytes and ensure that adequate sample mass is available for analysis. Each of the composite samples consisted of five individual adult fish (when available) that met the following criteria:

- all fish in the composite were of the same species,
- all specimens satisfied any legal requirements of harvestable size, or at least were of consumable size if no legal harvest requirements are in effect,
- the smallest fish in a composite was no less than 75% of the total length of the largest fish,
- all fish in the composite were collected at the same time (i.e., collected as close to the same time as possible but no more than one week apart), and

- fish were collected in sufficient numbers (targeting five per composite) and of adequate adult size, that they collectively provided enough fillet biomass to allow analysis of all recommended target analytes.

USEPA's *Analysis of the Biological Data Collected from the Animas and San Juan Rivers Following the Gold King Mine Release* Report (USEPA 2018) summarized contemporary studies of metals in San Juan River fish including 2015 and 2016 data for the New Mexico portion of the Animas and San Juan rivers collected by New Mexico Department of Game and Fish (NMDGF). The report stated that multiple fish species were present through the surveyed length of the rivers, although not all species were available at all sites. The only species captured consistently at all San Juan River sites was the Flannemouth Sucker (*Catostomus latipinnis*). The NMDGF collected Bluehead Suckers (*Pantosteus discobolus*), Brown Trout (*Salmo trutta*), Rainbow Trout (*Oncorhynchus mykiss*), Channel Catfish (*Ictalurus punctatus*), and White Sucker (*Catostomus commersonii*) as well, but they were not available in all sampling reaches. Based on this information, it appeared unlikely that any single fish species would be available from the entire 202-mile sampling reach. Proposed target fish species for this study were Channel Catfish, sucker species, and trout species, with a goal of collecting three to five species from each of the six sampling reaches. Every attempt was made to collect the desired number and species of fish targeted for study, but the success of the sampling effort was ultimately dependent on river conditions at the time of collection as well as the natural diversity and abundance fish within each river reach.

To answer the questions associated with the study objectives, chemical analysis of selected COCs in fish fillet tissue was required. Fish fillet tissue was analyzed (rather than whole body samples) to best represent the prevailing human health risk associated with fish consumption. Fish fillet tissue concentrations were compared to risk-based consumption limits for carcinogenic and chronic health endpoints for the general adult population for COCs for which those limits have been established by USEPA (USEPA 2000b) or states in the San Juan River vicinity.

The fish fillet tissue samples collected during the 2017 San Juan River Fish Tissue Contaminant Study (NNEPA and Tetra Tech 2017) were analyzed for 25 metals, mirroring those studied by USEPA during their initial work after the GKM release. Human health thresholds (i.e., screening levels) were used to identify fish tissue concentrations above a level protective of human health. USEPA risk-based fish consumption limits (USEPA 2000b) were available for three of those metals, i.e., arsenic, cadmium, and selenium. The screening level applied for mercury was the USEPA fish tissue criterion for methylmercury (USEPA 2006b). All fish fillet results from the 2017 study were below the mercury criterion. Arsenic, cadmium, and selenium concentrations were all below method reporting limits (RLs); however, the analytical methods did not enable detection down to levels that allowed consideration of all consumption categories. Because of that, it was not possible to make fish consumption recommendations based on those chemicals without more sensitive analytical methods and further data collection. Metals were target analytes again for this study; however, arsenic, cadmium, mercury, and selenium analyses were conducted using USEPA Method 6020B, i.e., an inductively coupled plasma mass spectrometry (ICP/MS) method, coupled with a hydride generation system to increase sensitivity.

In addition to target metals, this study considered other COCs that are persistent, bioaccumulative, and toxic, are known to be widely distributed in the environment, and/or have been recently recognized as COCs. Target chemical selection also considered known fish consumption advisories in New Mexico and Utah, where advisories exist for arsenic (UT), mercury (NM and UT), selenium (UT), PCBs (NM and UT), and DDT (NM). For this study, fish fillets were analyzed for 23 metals (including arsenic, cadmium,

mercury, and selenium), PCBs (all 209 congeners), 27 OC pesticides (including DDT) and 40 PFAS. Details regarding COC selection and associated analytical methods are provided in the *Quality Assurance Project Plan: Sample Preparation and Analysis Activities for the 2021–2024 San Juan River Fish Tissue Study (Volume 2 of 2)* (Tetra Tech 2024).

Metals -- Fish consumption can be a primary pathway of mercury exposure for some human populations. Health risks related to elevated mercury exposure include neurodevelopment impairments and increased cardiovascular disease risks. All fish fillet tissue samples in this study were analyzed for mercury and 22 other metals using USEPA Method 6020A (USEPA 1998). All metals except calcium, magnesium, and potassium were analyzed in USEPA's initial work after the GKM release (USEPA 2017). Additionally, the samples were analyzed for arsenic, cadmium, mercury, and selenium using modified USEPA Method 6020B (Brooks Applied Lab 2023a) with modified USEPA 3051 (USEPA 2007 and Brooks Applied Lab 2023b). This supplemental trace metals speciation analysis provided detection limits that are low enough to make meaningful comparisons to risk-based human health fish consumption levels for these specific metals. USEPA's (2006b) fish tissue-based methylmercury water quality criterion was applied as the screening level for total mercury results from this study. Freshwater fish contamination studies have shown that methylmercury can account for (on average) more than 90% of the mercury concentration in predator fish tissue. This San Juan River fish tissue study followed USEPA (2006b) recommendations to monitor for total mercury rather than methylmercury in fish, applying the conservative assumption that all mercury is present in fish tissue as methylmercury.

PCBs – Despite being banned from production nearly 45 years ago, PCBs are still widely distributed and persistent in the aquatic environment. Maternal consumption of PCB-contaminated fish can cause reproductive complications and neurobehavioral impacts in children (ATSDR 2014) and USEPA has classified PCBs as probable human carcinogens (USEPA 2000b). All samples in this study were analyzed for 209 PCB congeners using USEPA Method 1668C (USEPA 2010). USEPA recommends reporting total PCB concentrations calculated as the sum of the concentrations of congeners or homologues because the analysis of Aroclors (i.e., commercial PCB mixtures) alone does not represent all potential sources of PCBs to aquatic environments and therefore found in fish tissue (USEPA 2000b). Based on that recommendation, all fillet samples were analyzed for 209 PCB congeners, either as individual congeners or groups of two to six coeluting congeners. Application of risk-based fish consumption limits (USEPA 2000b) were used to identify fish tissue concentrations above a screening level protective of human health.

OC Pesticides – OC pesticides can be found in fish and can affect human health if consumed, potentially causing endocrine disruption, immune system impacts, and increased cancer risk. DDT use was banned in 1972, but it remains a legacy pesticide (along with its metabolites) due to its stability and persistence in the environment. The fish fillet tissue samples from this study were analyzed for 27 OC pesticides using USEPA Method 8081A (USEPA 1996). USEPA recommends reporting total DDT fish tissue results, based on the sum of the 4,4'- and 2,4' isomers of DDT, dichlorodiphenyldichloroethylene (DDE), and dichlorodiphenyldichloroethane (DDD) (USEPA 2000b). Fish samples for this study were analyzed for the 4,4'- and 2,4' isomers of DDT, DDE, and DDD using Method 8081A, and those values were summed to provide total DDT results for each sample. Samples were also analyzed for alpha-chlordane, gamma-chlordane, cis-nonachlor, trans-nonachlor, and oxychlordane using Method 8081A. Results for these five major degradation products of chlordane were summed to yield values for total chlordane. USEPA's *Guidance for Assessing Chemical Contaminant Data for Use in Fish Advisories, Volume 2* (USEPA 2000b)

recommends monitoring for total chlordane concentrations for fish contaminant and health advisory monitoring. The fillet concentrations of total DDT and total chlordane were compared to USEPA risk-based fish consumption limits (i.e., screening levels) (USEPA 2000b).

PFAS – Health effects studies have reported associations between PFAS exposure and developmental effects (including decreased birth weight), decreased immunity, and cardiovascular effects, as well as evidence suggesting carcinogenic potential in humans (USEPA 2022). Fish fillet tissue samples for this study were analyzed for 40 PFAS using USEPA Method 1633 (USEPA 2024a). In 2024, freshwater ambient water quality criteria for PFOA and PFOS were published to protect aquatic life (USEPA 2024b and 2024c); however, there are no existing USEPA human health risk-based fish consumption limits for PFAS at this time. The screening level assessment of PFAS in San Juan and Animas River fish from this study provides baseline data for comparison with future monitoring results and/or a data source for the application of national or regionally relevant human health fish tissue screening levels when they become available.

Data quality objectives (DQOs) for this study are discussed in QAPPs that were approved by USEPA Region 9 (Tetra 2021 and 2024). As described in USEPA DQO guidance (USEPA 2006a), the possibility of a decision error exists because of inherent variability in the data. The two types of decision errors are classified as a false rejection error (Type 1) and a false acceptance error (Type 2), for example, deciding that the baseline condition is false when it is true, or deciding that the baseline condition is true when it is instead false. The baseline condition is called the null hypothesis (H_0), for example, the fish are safe to consume. Decision errors, in the context of environmental data collection, are largely controlled in the study design. The collection of sufficient numbers and types of samples (e.g., in this case to reasonably predict the likelihood of exceeding a human health benchmark) are the primary means to limit decision errors. In the current study, fish (fillets) were selected as a more conservative indicator of risk, as they are less subject to variability associated with conventional water and sediment sampling. Fish samples were targeted from multiple river reaches, and species selection favored fishes that are common in the study area, more likely to be consumed by anglers, and are resident species (although recognizing that fish may not remain within a specific limited geographical distribution in the river). To further ensure representativeness, the study design called for the collection of multiple (four to five) fish composite samples from multiple river segments. Each of the samples consisted of multiple (five, if available) individual adult fish per composite that were similar in length. Fillets from both sides of all five fish were removed (for a total of up to 10 fillets per composite) and homogenized to prepare one composite fillet sample. These design parameters have been applied in national, regional, and reach-scale studies for decades, and have been accepted by the scientific community as a valid approach for assessing human health risk (Stahl et al. 2009).

All fish samples collected for analysis were filleted, composited, and homogenized at Tetra Tech's Biological Research Facility in Owings Mills, Maryland. Aliquots of frozen fish tissue homogenates were shipped to the analytical chemistry laboratories for analysis of the project COCs. The analytical laboratories prepared electronic analytical data deliverables that were reviewed by a Tetra Tech Quality Assurance (QA) Officer and a third-party validation laboratory. Laboratory Data Consultants, Inc. conducted a detailed assessment of the quality of the analytical results and applied data qualifications as appropriate considering field and laboratory quality control (QC) results.

2.1 Field Sampling

A detailed description of the field activities associated with the study can be found in the *Quality Assurance Project Plan: Sample Collection Activities for the 2021 – 2023 San Juan River Fish Tissue Study (Volume 1 of 2)* (Tetra Tech 2021) which was approved by USEPA Region 9. The COVID-19 pandemic affected contracting schedules and therefore delayed sample collection and the implementation phase of the study. Sampling commenced in March and ended in September of 2022. The field team was equipped with valid Scientific Collection Permits for the San Juan River sampling reach and an electrofishing raft appropriate for the location, sampling conditions, and targeted species. Fish specimens were identified to species by the team's fisheries biologist and non-target species were immediately returned to the river. Each specimen of a selected target species was measured to determine total body length in millimeters (mm). When five individuals of the target species meeting the size criteria (i.e., USEPA's "75% rule") were identified, the species name, specimen lengths, and all other site and sampling information were recorded.

The field team was successful in collecting 25 fish composites from Animas River Reach #1 through San Juan River reach #5. No fish were collected from Mexican Hat to Clay Hills (Reach #6) despite a week-long sampling effort. A total of 110 specimens of five target species were retained for analysis.

Flannelmouth and Bluehead Suckers (Figure 2) were the only species available from all five sampling reaches (Table 2). Common Carp, Channel Catfish, and Brown Trout were each available from at least three of the five river reaches.



Figure 2. San Juan River Bluehead Sucker Specimen

Table 2. Fish Species Collected and Analyzed from Animas River and San Juan River Fish Tissue Sampling Reaches

Common Name	Scientific Name ^a	Sampling Reach				
		Animas River	San Juan River			
		1	2	3	4	5
Flannelmouth Sucker	<i>Catostomus latipinnis</i>	✓	✓	✓✓	✓	✓
Bluehead Sucker	<i>Pantosteus discobolus</i>	✓	✓	✓✓	✓	✓
Common Carp	<i>Cyprinus carpio</i>	✓	✓	✓✓	✓	
Channel Catfish	<i>Ictalurus punctatus</i>			✓✓	✓	✓✓
Brown Trout	<i>Salmo trutta</i>	✓	✓		✓	

^a Nomenclature according to Page et al. (2023).

All fish were measured to the nearest mm (total length) and weighed to the nearest gram (g), and 110 total specimens were retained to form 25 total composite samples. Fish chosen for each composite sample were wrapped, labeled, and frozen as whole specimens. All the frozen fish were shipped under chain-of-custody by priority overnight shipping service to the Tetra Tech Biological Research Facility in Owings Mills, Maryland. A summary of fish composite sample data is presented in Table 3.



Figure 3: Otolith removal for age determination



Figure 4: Relative size of a pair of otoliths

Two fish (one large fish specimen and one small specimen) were selected from each fish composite for age determination using otoliths. Otoliths or “ear stones” are reliable and commonly used structures for determining the age of fish. They are calcium carbonate structures that are part of the fish's inner ear, allowing fish to sense vibrations and maintain balance. Otoliths accumulate material on the outer surface around a core throughout a fish's life history. That material is composed of alternating opaque and translucent layers and the number of paired opaque and translucent rings (or annuli) can be counted to estimate the age of a fish (i.e., each annulus represents one year of growth).

Fisheries scientists from Tetra Tech's Biological Research Facility in Owings Mills, Maryland removed both sagittal otoliths (i.e., the largest of the three pairs of otoliths in the inner ear of a fish) from two fish from each composite sample (Figure 3 and Figure 4). The process for otolith removal, cutting, mounting, polishing, and aging San Juan and Animas River fish was based on the technique for embedding and sectioning otoliths outlined in Murphy and Willis (1996). Sectioned otoliths were observed under a dissecting microscope and annuli were counted using both reflected and transmitted light and an external fiber-optic light source. One large fish and one small fish were aged from each composite to determine approximate age range of fish in the composite, and age data were used to evaluate potential relationships between age and contaminant concentrations. Fish age ranges and specimen-specific age data are provided in Table 3 and Table A1, respectively.

Table 3: Fish Composite Sample Summary for Fish Collected and Analyzed from the Animas River and San Juan River Sampling Reaches

Reach Number	Sampling Reach	Sample ID	Number of Fish per Composite Sample	Species	Week of Collection	Fish Length Range (mm)	Fish Weight Range (g)	Fish Age Range (yrs)
1	Aztec to Penny Lane (Animas River)	1A	5	Brown Trout	29-Mar-22	315–351	314–382	4–5+
		1B	3	Flannelmouth Sucker	29-Mar-22	475–528	1008–1385	14–19+
		1C	5	Bluehead Sucker	29-Mar-22	344–418	451–1011	5–10+
		1D	5	Common Carp	29-Mar-22	510–571	1940–3410	10–12+
2	Westland Park to Lion's Park (San Juan River)	2A	3	Common Carp	15-Mar-22	587–657	3155–5885	12–14+
		2B	5	Bluehead Sucker	15-Mar-22	340–408	391–806	6–9+
		2C	4	Brown Trout	15-Mar-22	270–315	206–311	3–4+
		2D	5	Flannelmouth Sucker	15-Mar-22	375–473	599–1161	5–10+
3	Hogback to Shiprock (San Juan River)	3A	5	Flannelmouth Sucker	21-Jun-22	442–509	1006–1439	11–14+
		3B	5	Bluehead Sucker	21-Jun-22	340–397	592–829	5–8+
		3C	5	Common Carp	21-Jun-22	457–573	1413–3058	7–12+
		3D	3	Common Carp	28-Jun-22	550–625	2548–4497	7–12+
		3E	5	Flannelmouth Sucker	28-Jun-22	420–483	868–1086	7–9+
		3F	5	Bluehead Sucker	28-Jun-22	353–386	479–708	7–8+
		3G	4	Channel Catfish	28-Jun-22	382–480	495–1222	5–8+
		3H	5	Channel Catfish	28-Jun-22	333–400	336– 581	4–6+
4	Shiprock to Horse Camp (San Juan River)	4A	3	Brown Trout	26-Jul-22	380–460	549–992	4–6+
		4B	2	Common Carp	9-Aug-22	530–669	2286–5438	9–14+
		4C	5	Flannelmouth Sucker	9-Aug-22	432–559	660–1962	9–24+
		4D	5	Channel Catfish	23-Aug-22	453–544	1043–1866	7–9+
		4E	5	Bluehead Sucker	23-Aug-22	384–402	609–878	10–10+
5	Horse Camp to Powerline (San Juan River)	5A	5	Channel Catfish	30-Aug-22	408–475	801– 1061	6–8+
		5B	3	Channel Catfish	30-Aug-22	385–441	539–815	6–7+
		5C	5	Flannelmouth Sucker	30-Aug-22	459–548	1090–1842	12–18+
		5D	5	Bluehead Sucker	30-Aug-22	365–418	584–840	6–9+
6	Mexican Hat to Clay Hills (San Juan River)	6	0	No fish collected	18-Sep-22	No fish collected		

2.2 Sample Preparation and Analysis

Whole fish samples were frozen immediately after collection (in freezers at -20°C) and shipped frozen on dry ice to the sample preparation laboratory (prep lab) at Tetra Tech's Biological Research Facility in Owings Mills, Maryland. The prep lab was responsible for filleting each valid fish sample, homogenizing the fish fillet tissue, preparing the required number of fish tissue aliquots for analysis and archive, shipping the fish tissue aliquots for each analysis to the appropriate analytical laboratory, and storing archived fish tissue samples in a freezer. Specific fish fillet tissue sample preparation procedures for activities are detailed in the *Quality Assurance Project Plan: Sample Preparation and Analysis Activities for the 2021 – 2024 San Juan River Fish Tissue Study (Volume 2 of 2)* (Tetra Tech 2024).

In the prep lab, trained technicians weighed each fish to the nearest gram, rinsed them with deionized water, placed them on a decontaminated glass cutting board, and scaled them. Fillets were removed (with skin on and ventral belly flap attached) from both sides of each fish (Figure 5). Fillets were composited using the “batch” method, that is, all fillets from the individual specimens that make up the sample were homogenized together, regardless of each specimen's proportion to one another, as opposed to the “individual” method where equal weights of fish tissue from each specimen are added together. A stainless-steel lab grinder was used to homogenize the fish fillet tissue. Fish tissues were mixed thoroughly as evidenced by a fillet homogenate that consisted of a fine paste of uniform color and texture. The collective weight of the homogenized fish tissue from each sample was recorded to the nearest gram (wet weight) after processing, and fish tissue aliquots were distributed to sterile jars based on the biomass requirements of each analytical method as described in the Sample Preparation and Analysis Activities QAPP (Tetra Tech 2024).



Figure 5. Fillet sample preparation

Metals Analysis – Fish tissue samples were analyzed by TestAmerica/Eurofins using Method 6020A for 23 metals. The full methods with method-specific QA procedures are presented in the Sample Preparation and Analysis Activities QAPP (Tetra Tech 2024). Method 6020A (*Inductively Coupled Plasma-Mass Spectrometry, Revision 1*) is an USEPA method with instrument detection limits generally below 0.1 micrograms per liter (µg/L). Less sensitive elements (e.g., selenium and arsenic) and desensitized major elements may be 1.0 µg/L or higher. Fish tissue sample results were reported based on the wet weight of the fish tissue sample, in milligrams per kilogram (mg/kg). The method measures ions produced by a radiofrequency inductively coupled plasma (USEPA 1998).

Additionally, Brooks Applied Labs analyzed fish tissue samples for arsenic, cadmium, mercury, and selenium using modified USEPA Method 6020A and modified USEPA Method 3051. The full methods (*Inductively Coupled Plasma-Mass Spectrometry, Revision 1* and *Microwave Assisted Acid Digestion of Sediments, Sludges, Soils, and Oils*) with modification details and method-specific QA procedures are presented in Sample Preparation and Analysis Activities QAPP (Tetra Tech 2024). This supplemental trace metals speciation analysis provided detection limits (generally below 0.005 mg/kg) that are low enough to make meaningful comparisons to the USEPA human health screening levels for these specific metals. Fish tissue sample results are reported based on the wet weight of the fish tissue sample, in mg/kg.

PCB Analysis – Fish tissue samples were analyzed for PCBs by ALS Environmental in accordance with Revision C of EPA Method 1668, *Chlorinated Biphenyl Congeners in Water, Soil, Sediment, Biosolids, and Tissue by HRGC/HRMS* (USEPA 2010). The samples were analyzed for all 209 PCB congeners and reported as individual congeners, coeluting groups of congeners, and total PCBs. The full methods with method-specific QA procedures are presented in the Sample Preparation and Analysis Activities QAPP (Tetra Tech 2024). Fish tissue sample results were reported by the analytical laboratory based on the wet weight of the fish tissue sample in units of picograms per gram (pg/g).

OC Pesticides Analysis -- Fish tissue samples were analyzed for OC pesticides by TestAmerica/Eurofins, in accordance with USEPA Method 8081A, *Organochlorine Pesticides by Gas Chromatography* (USEPA 1996). The samples were analyzed for 27 pesticide compounds. The full methods with method-specific QA procedures are presented in the Sample Preparation and Analysis Activities QAPP (Tetra Tech 2024). Fish tissue sample results were reported by the analytical laboratory based on the wet weight of the fish tissue sample, in micrograms per kilogram (µg/kg).

PFAS Analysis – Fish tissue samples were analyzed by TestAmerica/Eurofins for PFAS compounds, in accordance with USEPA Method 1633, *Analysis of Per- and Polyfluoroalkyl Substances (PFAS) in Aqueous, Solid, Biosolids, and Tissue Samples by LC-MS/MS* (USEPA 2024a). The samples were analyzed for 40 PFAS compounds. The full methods with method-specific QA procedures are presented in the Sample Preparation and Analysis QAPP (Tetra Tech 2024). Fish tissue sample results were reported by the analytical laboratory based on the wet weight of the fish tissue sample, in ng/g.

Equipment Rinsate Sample Analysis – The project-specific QC procedures for fish sample preparation included preparation and testing of equipment rinsate samples. During sample preparation, one set of rinsate samples was prepared per analysis batch to be analyzed by each laboratory for each analyte. The rinsate results were reviewed by the QC Officer and independent data validators to check the effectiveness of prep lab decontamination procedures. Aqueous rinsate results for each analysis were reported based on the volume of the rinsate sample. Metals and pesticide results were reported in micrograms per liter (µg/L). Total PCB results were reported in picograms per liter (pg/L), and PFAS results were reported in nanograms per liter (ng/L).

3 Quality Assurance/Quality Control

Data of known and documented quality are essential to the success of this study. The quality of data generated for this project was ensured through the use of trained, experienced personnel who consistently followed the standard operating procedures (SOPs), methods, and project protocols. Project staff followed all quality procedures presented in *Quality Assurance Project Plan for Sample Collection Activities for the 2021–2024 San Juan River Fish Tissue Study (Volume 1 of 2)* (Tetra Tech 2021) and *Quality Assurance Project Plan for Sample Preparation and Analysis Activities for the 2021–2024 San Juan River Fish Tissue Study (Volume 2 of 2)* (Tetra Tech 2024).

Tetra Tech scientists filleted each valid fish sample, homogenized the fish fillet tissue, prepared the required number of fish tissue aliquots for analysis and archive, shipped the fish tissue aliquots for each analysis to the analytical laboratories, and stored archived fish tissue samples in a freezer at their facility following the procedures described in the Sample Preparation and Analysis Activities QAPP for this study (Tetra Tech 2024). Tetra Tech technical staff ensured that whole fish samples were shipped frozen under

chain-of-custody from the NNDFW field office to the sample preparation laboratory, and fish tissue aliquots were shipped frozen from the sample preparation laboratory to the analytical laboratories. The analytical laboratories retained copies of all Chain-of-Custody Forms upon receipt. The samples were stored with their original labeling materials throughout the analytical process. The laboratories analyzed samples according to the study's analytical activities QAPP and their laboratory QA Manual and SOPs.

Laboratory QC was addressed through implementation of established, documented USEPA-approved methods and SOPs. Routine laboratory QC included instrument calibration and calibration verification, and preparation and analysis of negative (e.g., equipment rinsate, instrument, calibration, and digestion blanks) and positive controls (laboratory control samples [LCS] or standard reference materials), spiked samples (i.e., matrix spike or MS), and sample duplicates (lab duplicates) or spiked sample duplicates (i.e., matrix spike duplicates or MSDs). Laboratory QC is described for both sample preparation and analysis in the Sample Preparation and Analysis Activities QAPP (Tetra Tech 2024).

The negative control for sample processing was a procedural blank (equipment rinsate) generated during homogenization operations. Analytical acceptance criteria for positive (analysis of standard reference materials or spiked control samples) and negative controls (calibration, method, and instrument blanks) are described in the laboratory SOPs and the QA Manual and are discussed in the Sample Preparation and Analysis Activities QAPP (Tetra Tech 2024). In general, negative controls ideally yield no target analyte values in excess of laboratory-specific method detection limits; however, due to the ubiquitous nature of some elements in the laboratory setting, blank limits are frequently established at the reporting limit (RL). For positive controls, spiked and control sample recoveries in a range of 75-115% are generally considered acceptable for solid matrices such as the fish tissue matrix.

The project laboratories -- TestAmerica/Eurofins, ALS Environmental, and Brooks Applied Labs -- used standard methods to meet the study requirements. All analytical methods applied for this study are currently accepted and approved by USEPA. The laboratories maintain SOPs for the operation of analytical equipment as well as for the handling of samples. All instructions, reference methods and manuals relevant to the working of each laboratory are readily available to all staff. General laboratory quality control samples and activities are summarized in the Sample Preparation and Analysis Activities QAPP for this study (Tetra Tech 2024).

3.1 Data Review, Verification, and Validation

3.1.1 Data Review and Verification

All data entries and transmittals were reviewed by a Tetra Tech QC Officer for accuracy, completeness, and adherence to project QA requirements. All sample preparation laboratory measurements and calculations were reviewed by the Sample Preparation Laboratory Manager prior to data submission. Laboratory results and calculations were reviewed by the Analytical Laboratory Manager who verified that the final analytical data package was complete and compliant with method and project specifics. A detailed verification, data quality, and usability assessment was performed by a Tetra Tech QC Officer experienced in analytical quality assurance/quality control (QA/QC). The analytical data were reviewed for general compliance with the approved plan, for usability, and to define any apparent limitations in the data set as a result of quality control deficiencies in field and/or laboratory QC samples, or departures from the QA plan. The following aspects were reviewed during the data verification process:

- Chain of custody, preservation, and sample condition
- Calibration and review of narratives or data qualifiers
- Method, instrument, and rinsate blank comparisons to target analyte RLs
- Surrogate analysis and lab recovery limits
- Matrix spike/matrix spike duplicate (MS/MSD) comparisons to lab QC limits
- Method detection limits and RLs compared to program requirements
- Electronic Data Deliverable (EDD) completeness and correctness
- Narrative and data qualifiers

After these reviews were completed and the Tetra Tech QC Officer verified that each analytical dataset was compliant with the approved QAPPs, the EDDs were forwarded to an independent data validator for review.

3.1.2 Data Validation

Data validation is an analyte- and sample-specific process that determines the analytical quality of a specific data set, and its acceptability for intended uses. Following data review and verification of all analytical results, the final, verified datasets for fish tissue chemistry were submitted to an independent data validator for validation. Laboratory Data Consultants (LDC) provided USEPA Level III QA/QC review of data and validation for 90% of the samples, and Level IV QA/QC review of data and validation for 10% of the samples. All data validation procedures were performed in accordance with USEPA Functional Guideline requirements and industry standards. The LDC data reviewer validated all components of the data package and qualified data against established criteria. An overall final qualification of results encompassed the impact of individual QA/QC findings. The Level III and IV data validation aspects are summarized below.

USEPA Level III data validation was performed on the summary data packages for each analysis. The QC elements reviewed were:

Organic Analyses

- Holding times
- Initial calibration
- Continuing calibration
- Blanks
- Surrogate recovery
- MS/MSD recovery
- Lab control sample recovery
- Internal standard performance
- Field duplicate sample analysis relative percent difference (RPD)
- Reporting limits
- Overall assessment of data in sample delivery group (SDG)

Inorganic Analyses

- Holding times
- Initial calibration
- Continuing calibration
- Blanks
- Surrogate recovery
- MS recovery
- Duplicate sample RPD
- Lab control sample recovery
- ICP interference check
- MSA and serial dilution checks
- Field duplicate sample analysis RPD
- Reporting limits
- Overall assessment of data in SDG

USEPA Level IV data validation was performed on the summary and raw data packages. All Level III elements were performed, plus the following additional QC elements reviewed:

Organic Analyses

- Compound identification
- Compound quantitation and detection limits
- Tentatively identified compound verification - gas chromatography/mass spectrometry (GC/MS)
- System performance

Inorganic Analyses

- Analyte identification
- Analyte quantitation and detection limits
- System performance

The data validation process resulted in the assignment of data flags and qualification code. Those are included with fish tissue study results in the report appendices and are defined below.

Flags

B	The analyte was detected in the blank at greater than 10% of the sample concentration.
J	(Estimated): The reported result was an estimated quantity value.
U	(Non-detected): The analyte was analyzed for but was not detected above the level of the adjusted detection limit or quantitation limit, as appropriate.
UJ	(Non-detected): The analyte was analyzed for but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.
M	Indicates that a peak has been manually integrated.
NJ	(Tentatively identified): The analyte has been "tentatively identified" or "presumptively identified" as present, and the associated numerical value was the estimated concentration in the sample.
R	(Rejected): The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the sample.
NA	(Not Applicable): The non-conformance discovered during data validation demonstrates a high bias, while the affected analyte in the associated sample(s) was reported as not detected by the laboratory and did not warrant the qualification of the data.

Qualification Codes

1	Holding Times Exceeded
2	Sample Preservation/Cooler Temperature Exceeded Acceptance Criteria
3	Sample Custody Potentially Compromised Sample Integrity
4	Missing/Incomplete Deliverables
5	Calibration Did Not Meet Method Criteria
6	Equipment/Field Blank Contamination

- 7 Laboratory Method or Calibration Blank Contamination
- 8 Matrix Spike % Recovery Exceeded Acceptance Criteria
- 9 Matrix Spike Duplicate (RPD or Duplicate Sample Analysis) Exceeded Acceptance Criteria
- 10A Laboratory Control Sample % Recovery Exceeded Acceptance Criteria
- 10B Laboratory Control Sample Duplicate Exceeded Acceptance Criteria
- 11 ICP Interference Check Analysis Exceeded Method Criteria
- 12 RPD Between Two Columns (Pesticides/PCBs only)
- 13 Surrogate Recoveries Exceeded Acceptance Criteria
- 14 Field Duplicates RPD Exceeded Project Criteria
- 15 Peak Resolution Did Not Meet Method Criteria
- 16 Serial Dilution Analysis Exceeded Method Criteria
- 17 Chemical Recoveries Exceeded Acceptance Criteria
- 18 Trip Blank Contamination
- 19 Internal Standards/Labeled Compounds (High Resolution) Did Not Meet Method Criteria
- 20 Calibration Range exceeded Method Criteria
- 21 Potential False Positives
- 22 Do Not Use, Other Result More Technically Sound (Overall Assessment)
- 23 Estimated Maximum Possible Concentration
- 24 Trace Detection Below Limits of Quantification and Above Method Detection Limit (MDL)
- 25 Other

3.1.3 Negative Controls

Rinsate Blanks --A separate aqueous equipment rinsate sample was prepared prior to fish tissue sample preparation and analyzed for each analytical method. No contaminants were found in the equipment rinsate samples for metals, pesticides, or PFAS. PCB rinsate analysis revealed the presence of selected congeners in excess of the MDL, but below the quantitation limit (QL). Due to the ubiquitous nature of PCBs and the fact that rinsates were analyzed using the sensitive procedures in USEPA Method 1668C, blank limits are established at the quantitation limit; therefore, these results are within normal limits. The aqueous rinsate blank results are summarized in Table 4.

Table 4. PCB Congener Detections in Equipment Rinsate Samples

Analyte	Concentration (pg/L)	MDL (pg/L)	QL (pg/L)
PCB-001	6.7	1.7	25
PCB-011	13	13	25
PCB-020/028	5.72	5.5	26
PCB-052	8.62	3.5	26
PCB-044/047/065	5.0	3.1	26
PCB-040/041/071	3.9	3.5	26
PCB-061/070/074/076	3.4	2.6	26
Total MonoCB	4.4	2.7	110
Total DiCB	36.8	11	210
Total TriCB	5.72	4.1	210
Total TetraCB	20.9	2.2	420
Total PCBs (209 congeners)	67.8	NA	840

Total MonoCB = total of monochlorobiphenyls (group of PCBs having one chlorine atom)

Total DiCB = total of monochlorobiphenyls (group of PCBs having two chlorine atoms)

Total TriCB = total of monochlorobiphenyls (group of PCBs having three chlorine atoms)

Total TetraCB = total of monochlorobiphenyls (group of PCBs having four chlorine atoms)

Laboratory Blanks -- Laboratory blanks were analyzed as required by each method for the fish tissue analysis. No contaminants were found in the laboratory blanks prepared for metal or pesticide analyses. Laboratory blanks prepared for PCB analysis revealed the presence of 20 PCB congeners or co-eluting congener groups. Data were qualified for six individual congeners due to laboratory blank contamination. A summary of the laboratory blank data qualifications is provided in Appendix B.

3.1.4 Positive Controls

Laboratory Control Samples -- LCS were analyzed as required by the methods. Percent recoveries (%R) were within QC limits. LCS and LCS duplicates were analyzed as required by the method for pesticides. The %R and RPD were within QC limits for metals, PCBs, and OC pesticides. A total of six laboratory control samples were run for PFAS and in one, the results for six individual PFAS were outside of the %R limits (i.e., perfluorotridecanoic acid or PFTrDA had 166%R). The %R ranges for each COC/method are presented in Table 5.

Table 5. Percent recovery ranges per analytical method.

Analyte/Method	% Recovery Range	% Recovery Limits
PCB Congeners (USEPA Method 1668C)	90 – 116%	60 – 135%
Trace Metals Speciation (USEPA Method 6020B, Mod)	82 – 96%	75 – 125%
Metals (USEPA Method 6020B)	93 – 113%	80 – 120%
OC Pesticides (USEPA Method 8081 B)	71 – 124%	23 – 144%
PFAS (USEPA Method 1633)	50 – 166%	40 – 150%

Surrogates/Internal Standards -- Surrogates were added to all samples as required by the methods. All surrogate %R were within QC limits except for OC pesticide data for sample 3B. All OC pesticide data

were reported as usable by the analytical laboratory; however, the OC pesticide data for sample 3B were rejected by LDC due to surrogate %R.

4 Results

The goal of this study was to provide a screening level assessment of current contaminant levels in fish from the San Juan and Animas River study area, assess potential human health risk associated with fish consumption, and provide baseline data for any future studies of temporal trends. Sampling efforts resulted in the collection of 110 fish that met study requirements.

To address the study objectives, COC concentrations in fish fillet samples were compared to risk-based consumption limits established by USEPA (USEPA 2000b and USEPA 2006b). Application of human health thresholds identifies fish tissue concentrations that are above (or below) a screening level protective of human health. USEPA risk-based consumption limits are published for four of the metals targeted for study (arsenic, cadmium, mercury, and selenium), total PCBs, total chlordane, and total DDT. The screening level applied for mercury was the USEPA fish tissue-based water quality criterion for methylmercury (USEPA 2006b). Freshwater fish contamination studies have shown that methylmercury can account for (on average) more than 90% of the mercury concentration in predator fish tissue. USEPA (2000a) and USEPA (2006b) recommended monitoring for total mercury (as adopted for this study) rather than methylmercury in fish contaminant screening studies, applying the conservative assumption that all mercury is present in fish tissue as methylmercury. Additionally, the list of target analytes included COCs that do not have comparative human health criteria at the present time (e.g., PFAS) to establish a baseline for those chemicals and to gain a more expansive understanding of chemicals present in Animas and San Juan River fish.

4.1 Analytic Approach

Analytical method selection was based on direct comparison to method applications from previous San Juan River studies, and all are well-documented and widely accessible in commercial laboratories nationally. For the purposes of this data evaluation, it is acknowledged that method RLs may not always compare favorably to some of the fish tissue consumption limits. Therefore, direct comparison of reported limits or estimated concentrations to human health screening levels were undertaken carefully. A sample with no evidence of a target chemical present was reported as not detected (ND) considering the laboratory RL. A non-detected sample result may appear to suggest a higher concentration than a trace level value observed between the laboratory-derived MDL and RL. The MDL is an empirically determined quantitation limit with a 99% confidence that the value is not zero. The RL is the lowest concentration of a contaminant that can be reported with a high level of confidence for a specific sample, is dependent on sample-specific factors such as dilution and sample size and is typically higher than the MDL. Reporting a detection when there is no substance present is known as a “false positive.” The USEPA MDL is designed to control against false positives at the 99-percent confidence level. Reporting the detection of a substance at the MDL concentration in a blank sample or a fish tissue sample that does not contain the analyte should be rare (less than or equal to 1 percent).

All fish fillet tissue samples were analyzed for the target chemicals listed in Table 6. Human health thresholds were applied to identify fish tissue concentrations above a level protective of human health. Fish tissue concentrations were compared to existing USEPA risk-based fish consumption limits when available (USEPA 2000b). Table 7 through Table 12 present the risk-based consumption limits for three

of the target metals (arsenic, cadmium, and selenium), total PCBs, total chlordane, and total DDT. The screening level applied for mercury was the USEPA fish tissue-based water quality criterion for methylmercury (USEPA 2006b). The cancer health endpoints in fish tissue are used to calculate the amount of fish that can be safely consumed without increasing the risk of cancer. The non-cancer health endpoints in fish tissue are used to calculate the amount of fish that can be safely consumed without increasing the risk of non-carcinogenic effects (all other health, reproductive, and developmental effects).

Table 6. San Juan River Fish Tissue Study Target Analytes

(Table 6 is continued on the following pages)

Analytical Method	Target Chemical	Human Health Protection Endpoints (Screening Levels)
<i>Metals</i>		
USEPA Method 6020A and modified USEPA Method 3051, <i>Inductively Coupled Plasma-Mass Spectrometry, Revision 1 and Microwave Assisted Acid Digestion of Sediments, Sludges, Soils, and Oils</i>	Arsenic	See Table 7
	Cadmium	See Table 8
	Mercury	0.3 mg/kg fish tissue-based Water Quality Criterion (USEPA 2006b)
	Selenium	See Table 9
USEPA Method 6020A, <i>Inductively Coupled Plasma-Mass Spectrometry, Revision 1</i>	Aluminum	None
	Barium	None
	Antimony	None
	Beryllium	None
	Calcium	None
	Chromium	None
	Cobalt	None
	Copper	None
	Magnesium	None
	Manganese	None
	Iron	None
	Lead	None
	Potassium	None
	Nickel	None
	Sodium	None
	Silver	None
	Thallium	None
	Vanadium	None
	Zinc	None
<i>Organochlorine Pesticides</i>		
	Aldrin	None
	alpha-BHC	None

Analytical Method	Target Chemical	Human Health Protection Endpoints (Screening Levels)
USEPA Method 8081A, Organochlorine Pesticides by Gas Chromatography	alpha-Chlordane	See Table 12
	beta-BHC	None
	cis-Nonachlor	See Table 12
	2,4'-DDD	See Table 11
	4,4'-DDD	See Table 11
	2,4'-DDE	See Table 11
	4,4'-DDE	See Table 11
	2,4'-DDT	See Table 11
	4,4'-DDT	See Table 11
	delta-BHC	None
	Dieldrin	None
	Endosulfan I	None
	Endosulfan II	None
	Endosulfan sulfate	None
	Endrin	None
	Endrin aldehyde	None
	Endrin ketone	None
	gamma-BHC (Lindane)	None
	gamma-Chlordane	See Table 12
	Heptachlor	None
	Heptachlor epoxide	None
	Methoxychlor	None
	oxy-Chlordane	See Table 12
	Toxaphene	None
	trans-Nonachlor	See Table 12
Polychlorinated Biphenyls (PCBs)		
USEPA Method 1668C, Chlorinated Biphenyl Congeners in Water, Soil, Sediment, Biosolids, and Tissue by HRGC/HRMS	Total PCBs (sum of 209 congeners)	See Table 10
Per- and Polyfluoroalkyl Substances (PFAS)		
USEPA Method 1633, Analysis of Per- and Polyfluoroalkyl Substances (PFAS) in Aqueous, Solid, Biosolids, and that women are staff Tissue Samples by LC-MS/MS	Perfluorobutanoic acid (PFBA)	None
	Perfluoropentanoic acid (PFPeA)	None
	Perfluorohexanoic acid (PFHxA)	None
	Perfluoroheptanoic acid (PFHpA)	None
	Perfluorooctanoic acid (PFOA)	None
	Perfluorononanoic acid (PFNA)	None
	Perfluorodecanoic acid (PFDA)	None
	Perfluoroundecanoic acid (PFUnA)	None

Analytical Method	Target Chemical	Human Health Protection Endpoints (Screening Levels)
	Perfluorododecanoic acid (PFDoA)	None
	Perfluorotridecanoic acid (PFTrDA)	None
	Perfluorotetradecanoic acid (PFTeDA)	None
	Perfluorobutanesulfonic acid (PFBS)	None
	Perfluoropentanesulfonic acid (PFPeS)	None
	Perfluorohexanesulfonic acid (PFHxS)	None
	Perfluoroheptanesulfonic acid (PFHpS)	None
	Perfluorooctanesulfonic acid (PFOS)	None
	Perfluorononanesulfonic acid (PFNS)	None
	Perfluorodecanesulfonic acid (PFDS)	None
	Perfluorododecanesulfonic acid (PFDoS)	None
	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	None
	6:2 Fluorotelomer sulfonic acid (6:2 FTS)	None
	8:2 Fluorotelomer sulfonic acid (8:2 FTS)	None
	Perfluorooctanesulfonamide (PFOSA)	None
	N-methylperfluorooctane sulfonamide (NMeFOSA)	None
	N-ethylperfluorooctane sulfonamide (NEtFOSA)	None
	N-methylperfluorooctane sulfonamidoacetic acid (NMeFOSAA)	None
	N-ethylperfluorooctane sulfonamidoacetic acid (NEtFOSAA)	None
	N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	None
	N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	None
	Hexafluoropropylene Oxide Dimer acid (HFPO-DA)	None
	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	None
	Perfluoro-3-methoxypropanoic acid (PFMPA)	None
	Perfluoro-4-methoxybutanoic acid (PFMBA)	None
	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	None
	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	None
	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	None
	Perfluoro (2-ethoxyethane) acid (PFEESA)	None
	3-Perfluoropropylpropanoic acid (3:3 FTCA)	None
	3-Perfluoropentylpropanoic acid (5:3 FTCA)	None
	3-Perfluoroheptylpropanoic acid (7:3 FTCA)	None

Table 7. Monthly Fish Consumption Limits for Carcinogenic and Noncarcinogenic Human Health Endpoints (Screening Levels) -- Arsenic (Inorganic) (USEPA 2000b)

Risk Based Consumption Limit ^a	Noncancer Health Endpoints ^b	Cancer Health Endpoints ^c
Fish Meals/Month	Concentrations (mg/kg, wet weight)	Concentrations (mg/kg, wet weight)
Unrestricted (>16)	0 - 0.088	0 - 0.002
16	>0.088 - 0.18	>0.002 - 0.0039
12	>0.18 - 0.23	>0.0039 - 0.0052
8	>0.23 - 0.35	>0.0052 - 0.0078
4	>0.35 - 0.7	>0.0078 - 0.016
3	>0.7 - 0.94	>0.016 - 0.021
2	>0.94 - 1.4	>0.021 - 0.031
1	>1.4 - 2.8	>0.031 - 0.063
0.5	>2.8 - 5.6	>0.063 - 0.13
None (<0.5)	>5.6	>0.13

^a The assumed meal size is 8 oz (0.227 kg) for the general population and an adult body weight of 70 kg.

^b Chronic, systemic effects.

^c Cancer values represent fish tissue concentrations at a 1 in 100,000 risk level.

Table 8: Monthly Fish Consumption Limits for Noncarcinogenic Human Health Endpoints (Screening Levels) – Cadmium (USEPA 2000b)

Risk Based Consumption Limit ^a	Noncancer Health Endpoints ^b
Fish Meals/Month	Fish Tissue Concentrations (mg/kg, wet weight)
Unrestricted (>16)	0 - 0.088
16	>0.088 - 0.18
12	>0.18 - 0.23
8	>0.23 - 0.35
4	>0.35 - 0.7
3	>0.7 - 0.94
2	>0.94 - 1.4
1	>1.4 - 2.8
0.5	>2.8 - 5.6
None (<0.5)	>5.6

^a The assumed meal size is 8 oz (0.227 kg) for the general population and an adult body weight of 70 kg.

^b Chronic, systemic effects.

Table 9. Monthly Fish Consumption Limits for Noncarcinogenic Human Health Endpoints (Screening Levels) -- Selenium (USEPA 2000b)

Risk Based Consumption Limit ^a	Noncancer Health Endpoints ^b
Fish Meals/Month	Fish Tissue Concentrations, (mg/kg, wet weight)
Unrestricted (>16)	0 - 0.029
16	>0.029 - 0.059
12	>0.059 - 0.078
8	>0.078 - 0.12
4	>0.12 - 0.23
3	>0.23 - 0.31
2	>0.31 - 0.47
1	>0.47 - 0.94
0.5	>0.94 - 1.9
None (<0.5)	>1.9

^a The assumed meal size is 8 oz (0.227 kg) for the general population and an adult body weight of 70 kg.

^b Chronic, systemic effects.

Table 10. Monthly Fish Consumption Limits for Carcinogenic and Noncarcinogenic Human Health Endpoints (Screening Levels) -- Total PCBs (USEPA 2000b)

Risk Based Consumption Limit ^a	Noncancer Health Endpoints ^b	Cancer Health Endpoints ^c
Fish Meals/Month	Concentrations (mg/kg, wet weight)	Concentrations (mg/kg, wet weight)
Unrestricted (>16)	0 - 0.0059	0 - 0.0015
16	>0.0059 - 0.012	>0.0015 - 0.0029
12	>0.012 - 0.016	>0.0029 - 0.0039
8	>0.016 - 0.023	>0.0039 - 0.0059
4	>0.023 - 0.047	>0.0059 - 0.012
3	>0.047 - 0.063	>0.012 - 0.016
2	>0.063 - 0.094	>0.016 - 0.023
1	>0.094 - 0.19	>0.023 - 0.047
0.5	>0.19 - 0.38	>0.047 - 0.094
None (<0.5)	>0.38	>0.094

^a The assumed meal size is 8 oz (0.227 kg) for the general population and an adult body weight of 70 kg. Consumption limits are based on an adult body weight of 70 kg, and RfD of 2×10^{-5} , and a CSF of 2 (mg/kg-d)⁻¹.

^b Chronic, systemic effects.

^c Cancer values represent fish tissue concentrations at a 1 in 100,000 risk level.

Table 11. Monthly Fish Consumption Limits for Carcinogenic and Noncarcinogenic Human Health Endpoints (Screening Levels) -- DDT* (USEPA 2000b)

Risk Based Consumption Limit ^a	Noncancer Health Endpoints ^b	Cancer Health Endpoints ^c
Fish Meals/Month	Concentrations (mg/kg, wet weight)	Concentrations (mg/kg, wet weight)
Unrestricted (>16)	0 - 0.015	0 - 0.0086
16	>0.015 - 0.029	>0.0086 - 0.017
12	>0.029 - 0.039	>0.017 - 0.023
8	>0.039 - 0.059	>0.023 - 0.035
4	>0.059 - 0.12	>0.035 - 0.069
3	>0.12 - 0.16	>0.069 - 0.092
2	>0.16 - 0.23	>0.092 - 0.14
1	>0.23 - 0.47	>0.14 - 0.28
0.5	>0.47 - 0.94	>0.28 - 0.55
None (<0.5)	>0.94	>0.55

^a The assumed meal size is 8 oz (0.227 kg) for the general population and an adult body weight of 70 kg. Consumption limits are based on an adult body weight of 70 kg, an RfD of 5×10^{-4} mg/kg-d, and a CSF of 0.34 (mg/kg-d)⁻¹

^b Chronic, systemic effects.

^c Cancer values represent fish tissue concentrations at a 1 in 100,000 risk level.

* Total DDT equals the sum of the 4,4'- and 2,4' isomers of DDT, DDE, and DDD.

Table 12. Monthly Fish Consumption Limits for Carcinogenic and Noncarcinogenic Human Health Endpoints (Screening Levels) -- Chlordane* (USEPA 2000b)

Risk Based Consumption Limit ^a	Noncancer Health Endpoints ^b	Cancer Health Endpoints ^c
Fish Meals/Month	Concentrations (mg/kg, wet weight)	Concentrations (mg/kg, wet weight)
Unrestricted (>16)	0 - 0.15	0 - 0.0084
16	>0.15 - 0.29	>0.0084 - 0.017
12	>0.29 - 0.39	>0.017 - 0.022
8	>0.39 - 0.59	>0.022 - 0.034
4	>0.59 - 1.2	>0.034 - 0.067
3	>1.2 - 1.6	>0.067 - 0.089
2	>1.6 - 2.3	>0.089 - 0.13
1	>2.3 - 4.7	>0.13 - 0.27
0.5	>4.7 - 9.4	>0.27 - 0.54
None (<0.5)	>9.4	>0.54

^a The assumed meal size is 8 oz (0.227 kg) for the general population and an adult body weight of 70 kg. Consumption limits are based on an adult body weight of 70 kg, an RfD of 5×10^{-4} mg/kg-d, and a CSF of 0.35 (mg/kg-d)⁻¹

^b Chronic, systemic effects.

^c Cancer values represent fish tissue concentrations at a 1 in 100,000 risk level.

* Total chlordane equals the sum of five major degradation products of chlordane (alpha-chlordane, gamma-chlordane, cis-nonachlor, trans-nonachlor, and oxychlordane).

4.2 Analytical Results

Analytical results for all fish tissue samples collected from the San Juan and Animas River sampling reaches are summarized in Table 13 and results for individual composite samples are presented in detail in Appendix C through Appendix F. Detections are reported above the RL. Detection alone does not imply risk to human consumers of fish from the study area. Discussions in this report focus on chemicals that have potential human health implications and associated (published) human health protection thresholds. The New Mexico Environment Department (NMED) reports that three contaminants have been detected at levels that could result in health problems from long-term fish consumption in the state, i.e., mercury, PCBs, and DDT (however they have no current consumption advisories in the San Juan River) (https://www.env.nm.gov/surface-water-quality/wp-content/uploads/sites/18/2023/12/New-Mexico-Fish-Consumption-Advisories_December-2023.pdf). In Utah, Public Health Officials have issued fish consumption advisories due to elevated levels of arsenic, mercury, selenium, and PCBs (however they also have no current advisories in the San Jaun River) (<https://deq.utah.gov/water-quality/utah-fish-advisories>).

Metals -- Results for metals from this study are provided in Appendix Table C1. Like many rivers in the western U.S. located in historic or active mining regions, the San Juan and Animas Rivers are susceptible to impacts from active and sequestered sources (e.g., sediment deposits) of metals. In fish, metals bind to different tissues. For example: mercury binds strongly to proteins (and lower rates in liver and kidneys) and therefore concentrates in muscle tissue; cadmium accumulates primarily in the liver, kidneys, and gills, and less in muscle tissue; and selenium bioaccumulates in liver and muscle tissues at similar rates. USEPA (2018) reported that many metals were significantly elevated in Bluehead Sucker and Flannelmouth Sucker liver tissue and Speckled Dace muscle tissue immediately after the GKM release in the lower Animas River. Cadmium and mercury levels in fish liver tissue and selenium in fish muscle tissue were found to be greater in the San Juan River than in the Animas. However, fish tissue results from the following spring indicated that the concentrations of metals in fillet samples were similar to pre-release concentrations in both rivers, and levels were never high enough to trigger fish consumption advisories for local fishers. NNEPA's 2017 study (NNEPA and Tetra Tech 2017) indicated that human health risk from consumption of San Juan River fish was low with respect to metal concentrations, at least for a single target species (i.e., Channel Catfish), and mercury concentrations in catfish fillets at that time were below USEPA's methylmercury fish tissue-based water quality criterion.

Analysis of 23 metals for the 2024 study showed that nine metals were detected in all fish fillet composites, five metals were found in only a single sample, and four metals were not detected (i.e., were below the RL) in any samples from any of the sampled reaches (Table C1). Arsenic, calcium, copper, magnesium, mercury, potassium, selenium, sodium, and zinc were present in all samples. Antimony, beryllium, silver, and vanadium were not detected in any samples. NNEPA and Tetra Tech (2017) RLs for arsenic, cadmium, and selenium did not enable detection down to levels that allowed consideration of all consumption categories for the 2017 study. Considering that, analytical method changes were made for the current study to increase sensitivity and lower RLs (See Section 2.2). Arsenic, selenium, and mercury were detected in all samples, and cadmium was in 36% of the samples. Arsenic levels in fillet composites ranged from 0.018 to 0.193 mg/kg, selenium levels were between 0.33 and 0.71 mg/kg, and mercury levels ranged from 0.058 and 0.257 mg/kg (Table 13). Cadmium was present at low levels (ND to 0.004 mg/kg) and only detected in Flannelmouth Suckers, Common Carp, and Chanel Catfish.

Interstation variability in mercury concentrations between river reaches is shown graphically in Figure 6. Overall, there are no notable spatial patterns, and mercury is ubiquitous throughout the study area. Interspecies comparisons in Figure 7 show that mercury levels were highest in Flannemouth Sucker composites. Arsenic concentrations were consistently higher in Bluehead Suckers than from all other species in all river reaches (Figure 8), and results showed a pattern of increasing arsenic levels with each successive downstream reach (Figure 9). Reach comparisons showed that selenium was ubiquitous in the study area (Figure 10) with no notable patterns for individual species (Figure 11).

PCBs – Study results for individual PCB congeners are provided in Appendix Table D1 and are summarized as total PCBs (or the sum of all congeners) in Table 13. PCB production and uses in the U.S. were banned in 1979, but they persist in the environment today and continue to bioaccumulate through the food web. They are lipophilic compounds (combining with or dissolving in lipids or fats), particularly the highly chlorinated congeners, and therefore tend to accumulate in fatty tissues in fish. NMED has issued consumption advisories due to elevated PCB levels in fish from selected lakes, rivers, and reservoirs in New Mexico; however, there are currently no advisories in the San Juan River.

Summing the congener results for the 2024 study showed that PCBs were present in all fish fillet composites from all the sampled reaches (Table D1). Total PCB levels in fillet composites ranged from 1,940 to 81,100 pg/g. A spatial comparison of total PCB concentrations in all river reaches (Figure 12) shows that results for most species were below 20,000 pg/g but also shows a single outlier for an Animas River Flannemouth Sucker sample. That result (81,100 pg/g) is more than two times the concentration measured in any other sample. In the San Juan River, Flannemouth Sucker results show a pattern of increasing total PCB concentrations with each downstream reach, i.e., 12,900, 13,200, 26,900, and 32,500 pg/g for Reaches 2 through 5, respectively (Figure 13).

OC Pesticides – Results for OC pesticides from this study are provided in Appendix Table E1. OC pesticides tend to concentrate in the fatty tissue of fish, are not readily metabolized, and biomagnify through the food web. Chlordane is an OC insecticide that was used on agricultural crops, lawns, and for termite control. All uses of chlordane were banned in 1988, but because of its long half-life it persists in fish from some areas of the U.S. (Stahl et al. 2009). Results are reported as total chlordane in Table 13, which shows non-detections for all species from all river reaches.

DDT is another banned OC pesticide (since 1972) that was widely used in the past, is bioaccumulative, has a long half-life, and therefore persists in the environment. NMED has issued consumption advisories due to elevated DDT levels in fish from selected lakes, rivers, and reservoirs in New Mexico; however, there are currently no advisories in the San Juan River. For this study, the 4,4'- and 2,4' isomers of DDT, DDE, and DDD were summed to provide total DDT results for each sample (Table 13). DDT was detected in only five of the 25 fillet composite samples. Although frequency of occurrence was low in the study area (Figure 14), elevated DDT levels were measured in one Flannemouth Sucker composite sample from Reach 3 (24 µg/kg) and a Common Carp sample from Reach 4 (11 µg/kg) (Figure 15).

PFAS – Results for PFAS from this study are provided in Appendix Table F1. PFAS are another group of chemicals that persist in the environment and can bioaccumulate through food webs. They are recognized as COCs because they are toxic, ubiquitous, and have a long half-life in humans. Animal studies have shown that PFAS bind to proteins in blood and livers, and they are not lipophilic like many other organic contaminants. Despite restrictions on their production and use in the U.S., they are still produced in other countries, are distributed globally by atmospheric deposition, and PFAS precursors

continue to break down to persistent degradation products. Most studies indicate that perfluorooctane sulfonic acid (PFOS) is the predominant PFAS in fish, and research suggests that the consumption of fish from contaminated waters may be a major source of exposure to PFOS and other long chain perfluorocarboxylic acids for some people (Hart et al. 2008; Haug et al. 2010; Holzer et al. 2011; Stahl et al. 2014). Monitoring studies indicate that PFAS concentrations in some fish in the U.S. are decreasing over time (Hamade 2024).

Samples from this study were analyzed for 40 PFAS, results for each sample are presented in Table F1, and PFOS results are included in Table 13. PFOS levels ranged from a single non-detection at Animas River Reach 1 to 2.9 ng/g at San Juan Reach 3. Results for all species in all reaches were less than 3 ng/g (Figure 16). The highest value was recorded for a Common Carp composite sample and the ND result was for a Bluehead Sucker sample. Interspecies comparisons indicate that PFOS concentrations were lowest overall in Channel Catfish, when compared to the four other target species (Figure 17).

USEPA (2024a and 2024b) published perfluorooctanoic acid (PFOA) and PFOS freshwater ambient water quality criteria for the protection of aquatic life; however, there are currently no published USEPA human health risk-based fish consumption limits for PFAS.

Table 13. Concentrations (wet weight) of Selected Target Chemicals Detected in Fish Fillet Composites from the Animas and San Juan Rivers

Reach Number	Sample ID	Species	Arsenic (mg/kg)	Cadmium (mg/kg)	Total Mercury (mg/kg)	Selenium (mg/kg)	Total PCBs (pg/g)	Total DDT (µg/Kg)	Total Chlordane (µg/Kg)	PFOS (ng/g)
1	1A	Brown Trout	0.018	ND	0.104	0.597	12,000	0.64	ND	2.3
	1B	Flannelmouth Sucker	0.039	0.003	0.2	0.433	81,100	ND	ND	0.89
	1C	Bluehead Sucker	0.120	ND	0.115	0.373	5,040	ND	ND	ND
	1D	Common Carp	0.042	0.003	0.108	0.675	11,100	ND	ND	2
2	2A	Common Carp	0.064	0.004	0.162	0.511	33,000	ND	ND	1.5
	2B	Bluehead Sucker	0.136	ND	0.058	0.338	1,940	ND	ND	0.71
	2C	Brown Trout	0.025	ND	0.097	0.575	8,290	ND	ND	2
	2D	Flannelmouth Sucker	0.043	ND	0.128	0.472	12,900	ND	ND	1.3
3	3A	Flannelmouth Sucker	0.042	ND	0.197	0.554	12,100	24	ND	1.4
	3B	Bluehead Sucker	0.114	ND	0.092	0.375	3,850	ND*	ND*	2
	3C	Common Carp	0.053	ND	0.066	0.71	13,400	ND	ND	2.9
	3D	Common Carp	0.047	0.002	0.111	0.626	19,500	ND	ND	2.1
	3E	Flannelmouth Sucker	0.084	ND	0.162	0.597	13,200	ND	ND	1.4
	3F	Bluehead Sucker	0.141	ND	0.079	0.437	6,030	0.28	ND	2
	3G	Channel Catfish	0.03	ND	0.164	0.343	6,090	ND	ND	0.41
	3H	Channel Catfish	0.027	0.002	0.107	0.687	6,610	0.69	ND	0.88
4	4A	Brown Trout	0.03	ND	0.15	0.663	12,200	ND	ND	1.6
	4B	Common Carp	0.065	0.002	0.13	0.437	21,000	11	ND	1.3
	4C	Flannelmouth Sucker	0.079	ND	0.198	0.579	26,900	ND	ND	1.7
	4D	Channel Catfish	0.032	0.002	0.19	0.33	13,200	ND	ND	0.55
	4E	Bluehead Sucker	0.189	ND	0.094	0.614	21,200	ND	ND	0.82
5	5A	Channel Catfish	0.027	0.002	0.153	0.389	7,710	ND	ND	0.58
	5B	Channel Catfish	0.024	0.002	0.136	0.425	6,400	ND	ND	0.47
	5C	Flannelmouth Sucker	0.093	ND	0.257	0.508	32,500	ND	ND	1.5
	5D	Bluehead Sucker	0.193	ND	0.137	0.688	6,910	ND	ND	0.83
6	No fish collected									

*Rejected result (R flag). Surrogate percent recoveries were outside of the QC limits.

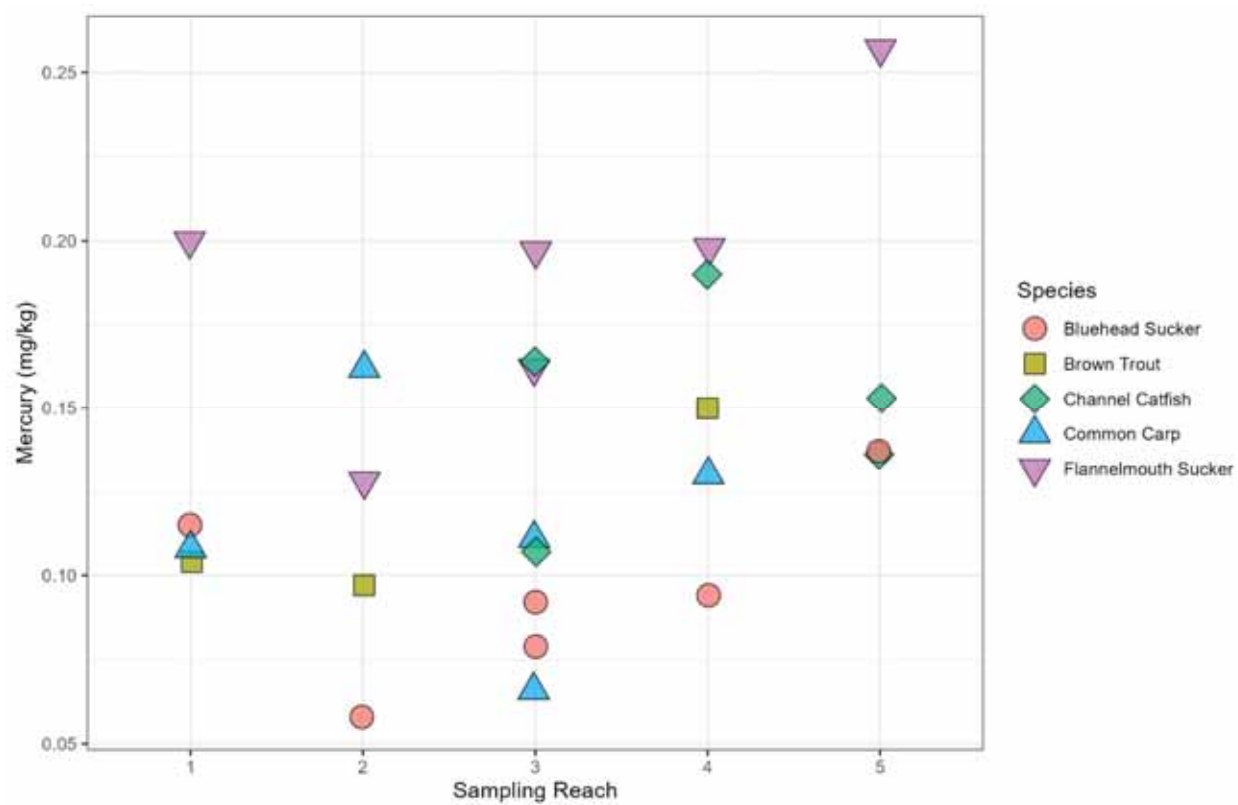


Figure 6. Mercury Levels in Fish Fillet Composite Samples from Each Sampling Reach (All Species)

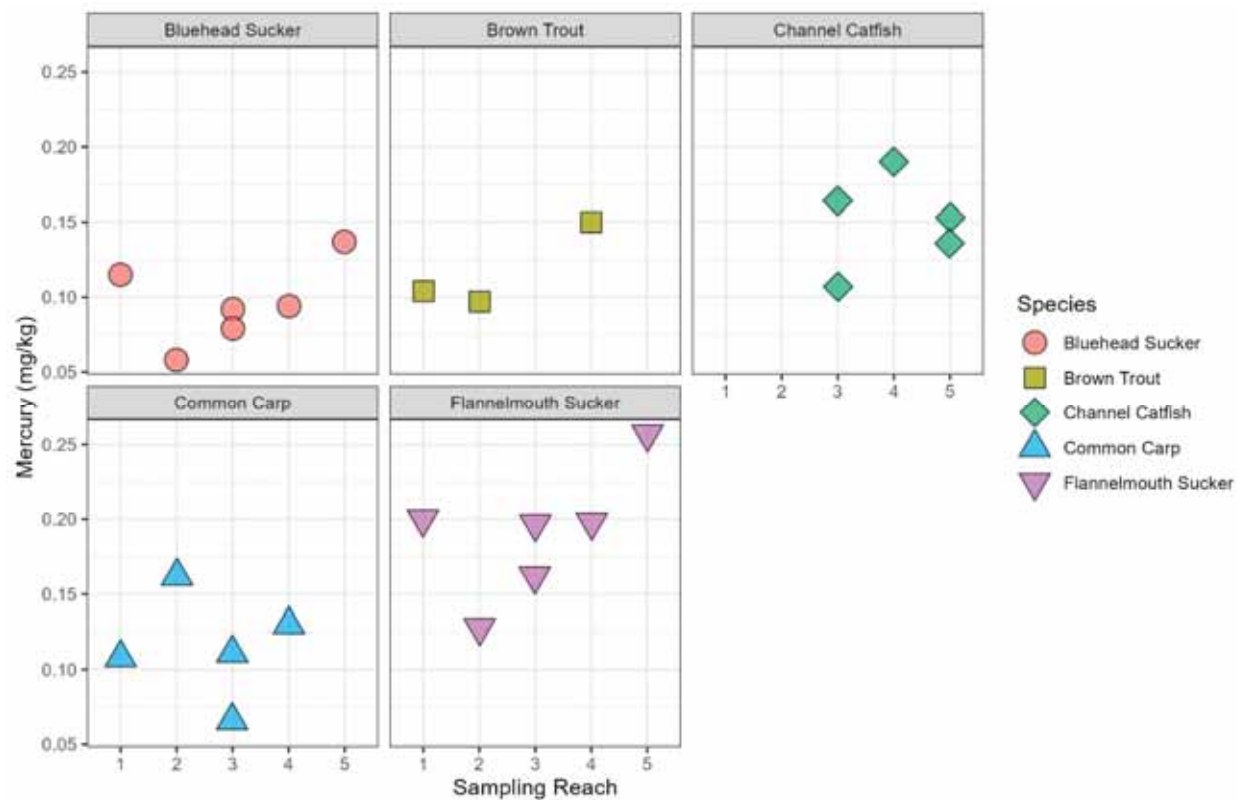


Figure 7. Mercury Levels in Fish Fillet Composite Samples for Five Animas and San Juan River Fish Species

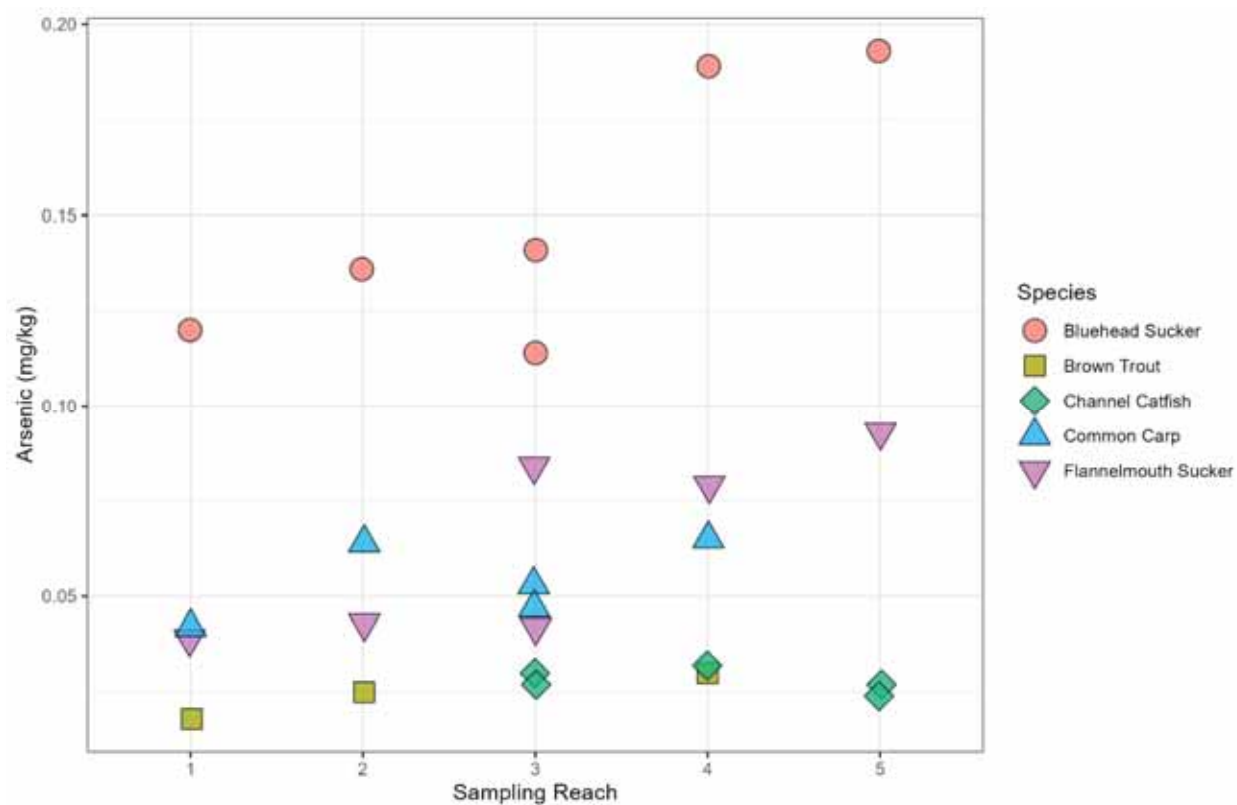


Figure 8. Arsenic Levels in Fish Fillet Composite Samples from Each Sampling Reach (All Species)

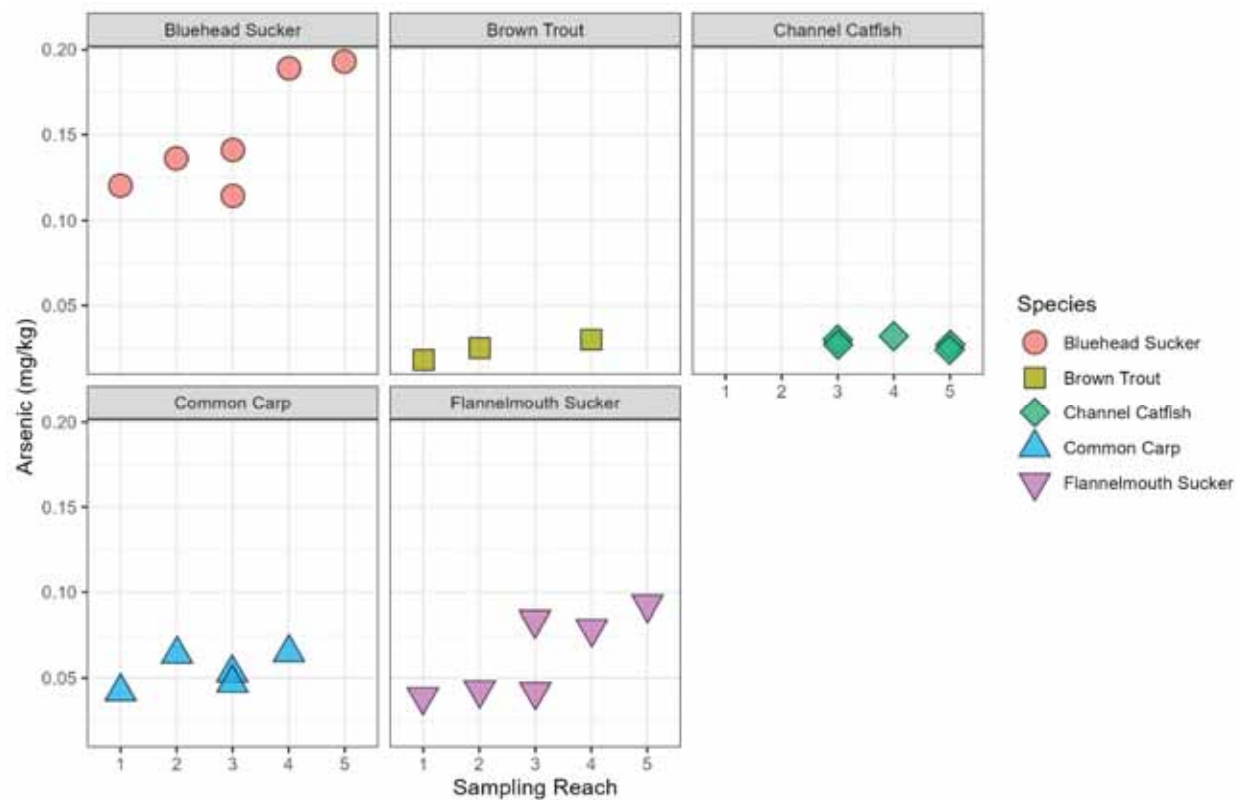


Figure 9. Arsenic Levels in Fish Fillet Composite Samples for Five Animas and San Juan River Fish Species

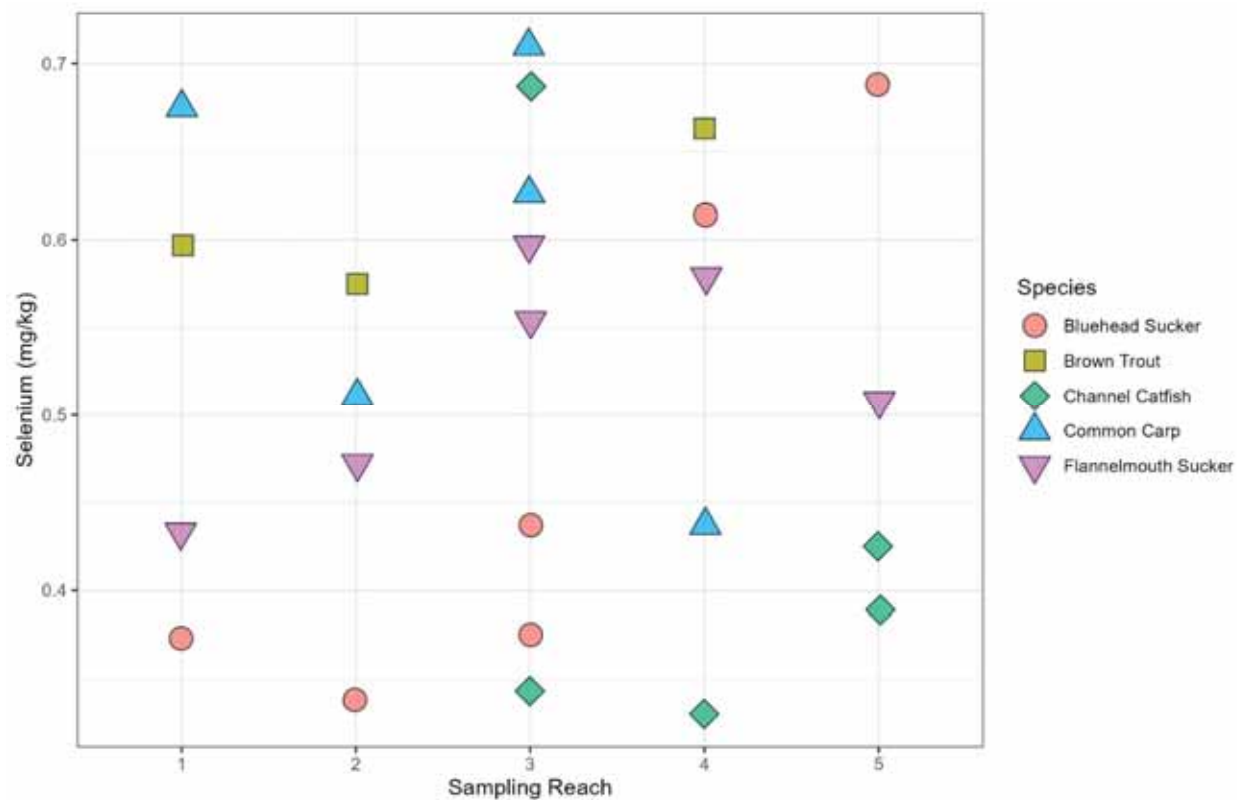


Figure 10. Selenium Levels in Fish Fillet Composite Samples from Each Sampling Reach (All Species)

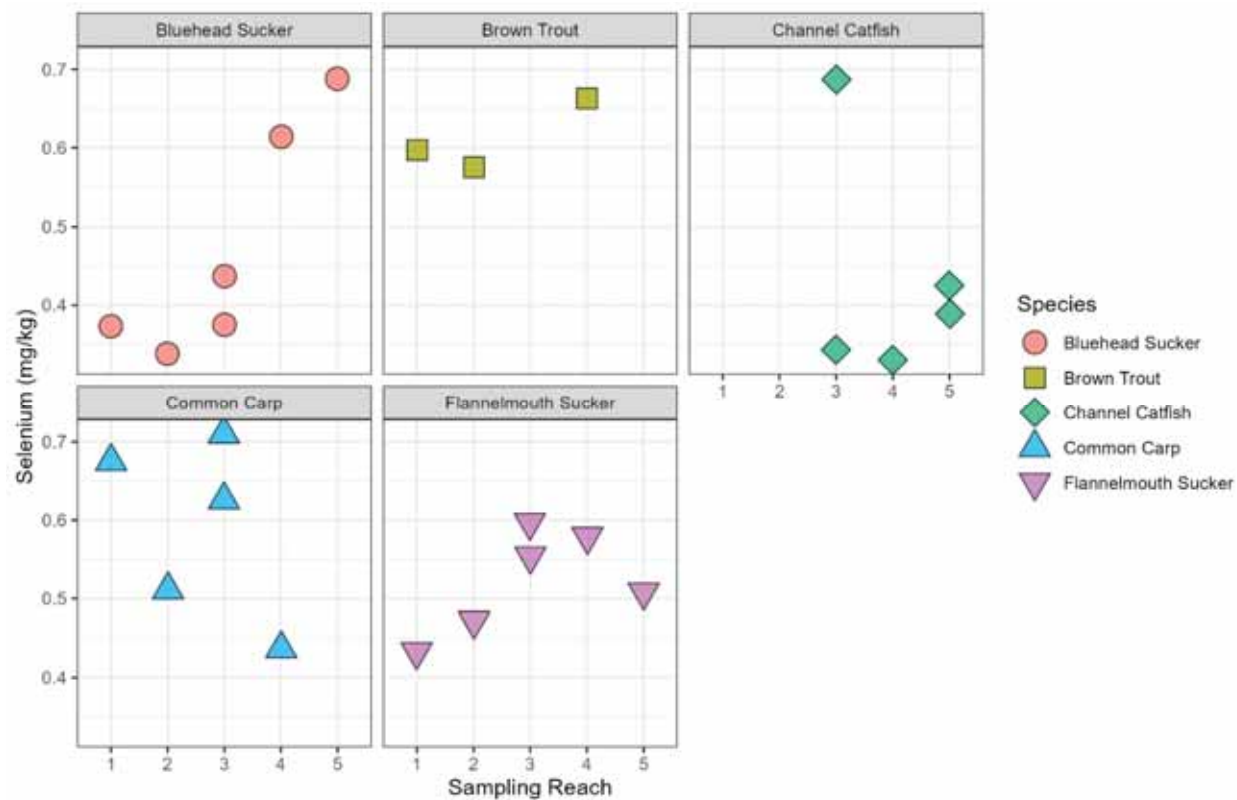


Figure 11. Selenium Levels in Fish Fillet Composite Samples for Five Animas and San Juan River Fish Species

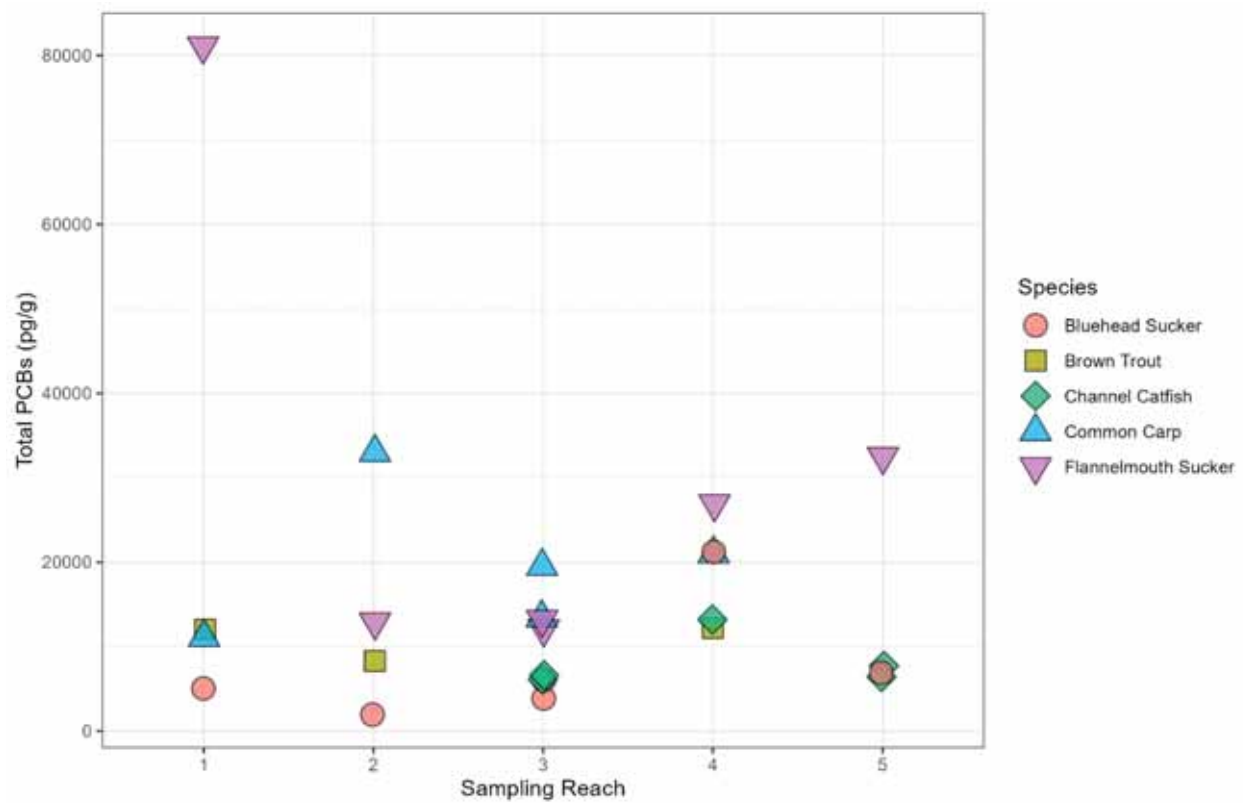


Figure 12. Total PCB Levels in Fish Fillet Composite Samples from Each Sampling Reach (All Species)

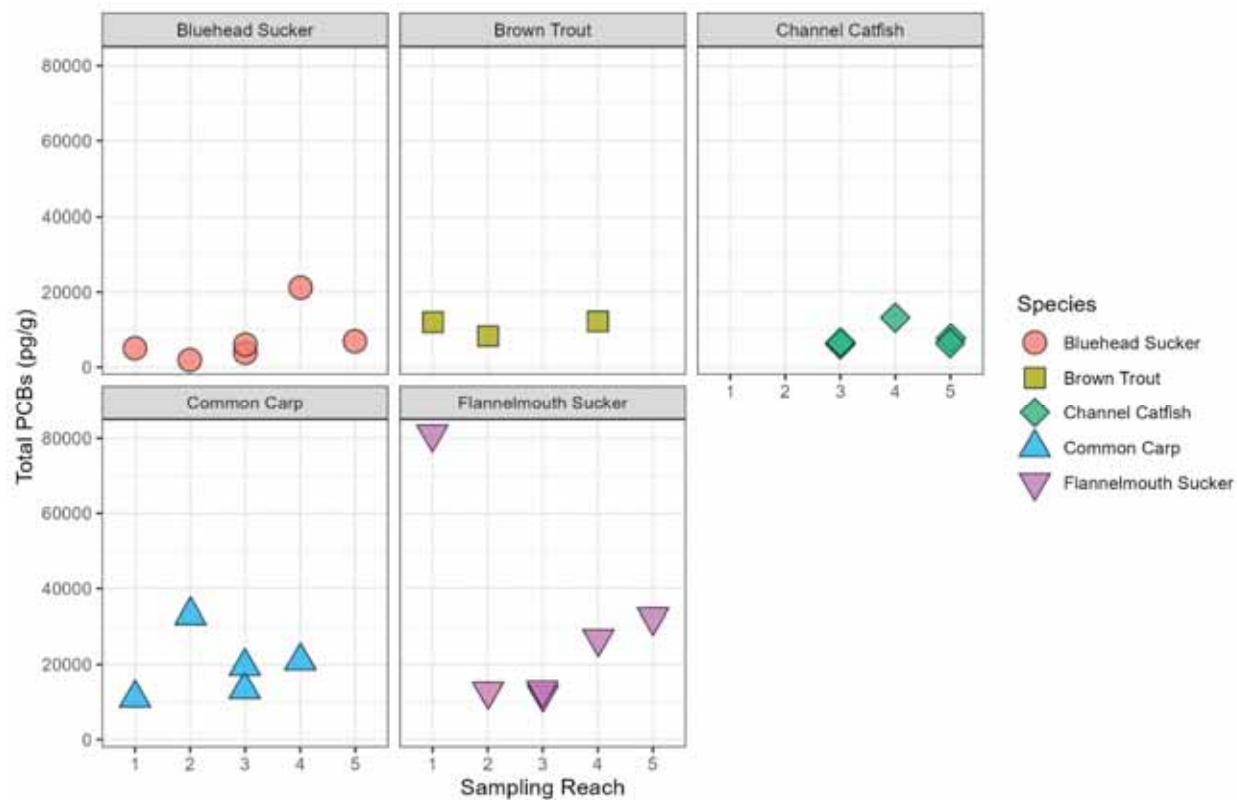


Figure 13. Total PCB Levels in Fish Fillet Composite Samples for Five Animas and San Juan River Fish Species

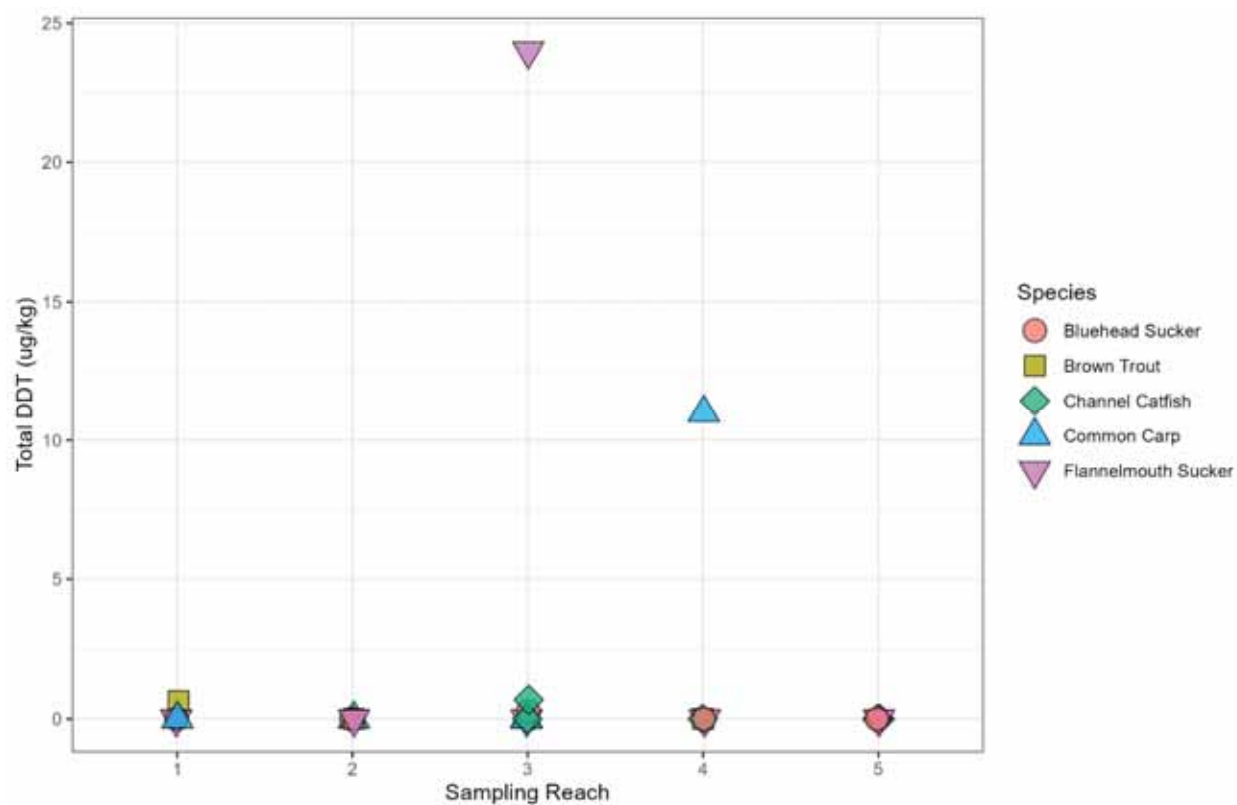


Figure 14. Total DDT Levels in Fish Fillet Composite Samples from Each Sampling Reach (All Species)

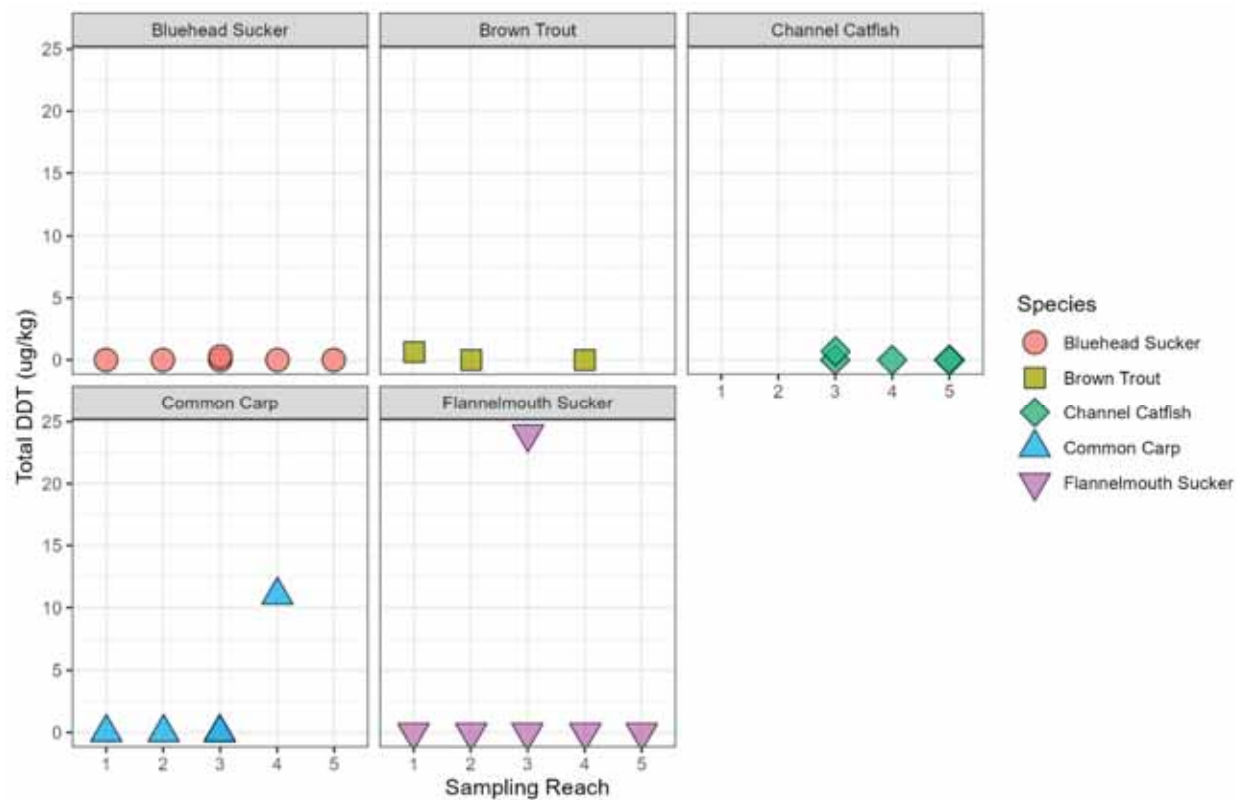


Figure 15. Total DDT Levels in Fish Fillet Composite Samples for Five Animas and San Juan River Fish Species

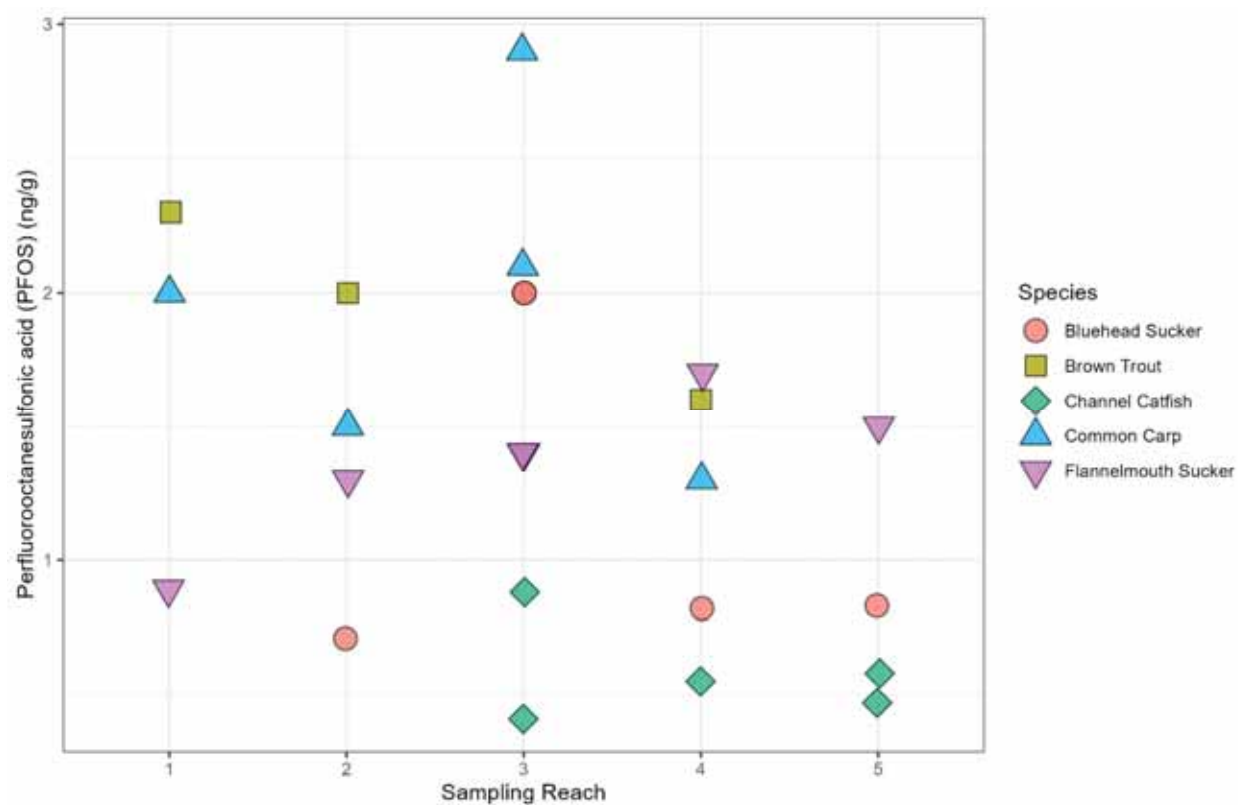


Figure 16. PFOS Levels in Fish Fillet Composite Samples from Each Sampling Reach (All Species)

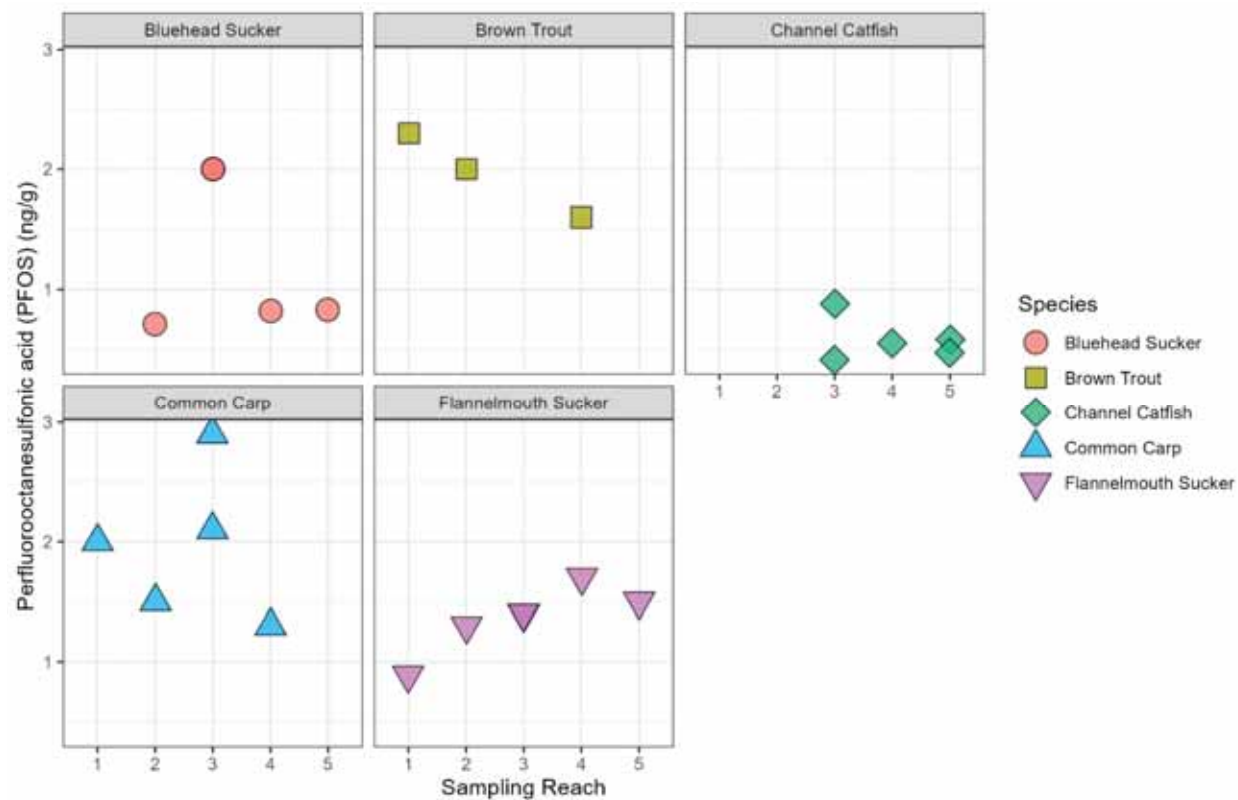


Figure 17. PFOS Levels in Fish Fillet Composite Samples for Five Animas and San Juan River Fish Species

Fish Age and COCs -- Many studies have shown that mercury concentrations in fish, particularly predators or top carnivores, increase with age (and therefore with increasing length/weight), which demonstrates the influence of increased duration of exposure on mercury accumulation in fish tissue (USEPA 2010a). Lusk et al. (2005) found that methylmercury concentrations in catfish collected from Navajo Nation lakes in 2004 were significantly correlated with average length ($R^2=0.87$) and average weight ($R^2=0.88$)¹, however, the range of mercury concentrations in the lake study was wider than in this San Juan River study. All fish collected for this study were adult specimens that could potentially be harvested and consumed by anglers. Fish sizes within composites followed USEPA's "75% rule" so intra-composite lengths were similar, by design. Therefore, the study design did not include the specific objective to assess COCs and fish size or age relationships; however, two specimens from each composite were aged (Section 2.1) as a cursory evaluation of residence time or exposure and COC body burdens. For this study, contaminants were measured in five fish species of varied ecological niches and functional feeding behaviors. Despite that, age and mercury concentration comparisons showed a positive (although weak) relationship of increasing mercury levels with increasing fish age ($R^2=0.23$) (Figure 18). An evaluation of individual species (Figure 19) showed that the species with the strongest positive relationship between age and mercury fillet concentration was Channel Catfish ($R^2=0.40$).

Reports of fish age (or alternatively length or weight) and body burden correlations are more complex and sometimes conflicting for other COCs. Rypel and Bayne (2010) evaluated whether growth rates of six species correlated with PCB concentrations and found positive correlations for only four of the six species. At a time when DDT was still being widely used, Tompkins (1965) found a direct relationship between fish age and DDT levels in some sampled lakes but not in others (Turner 1970). Fair et al. (2019) found that, for both whole fish and fillets, there was no significant association between fish length or fish weight with total PFAS. In contrast, a positive relationship between PFOS concentration and fish length was observed in carp by Gewurtz et al. (2014) and weight in trout (Furdui et al. 2007). For this study, total PCB and fish age regressions showed a positive relationship ($R^2=0.38$), all species combined (Figure 20) and the strongest positive correlation for any single species was noted for Brown Trout ($R^2=0.40$) (Figure 21). The highest total PCB concentration was recorded for a Flannelmouth Sucker sample, which is a species that proved to be older than all other target species during this study (i.e., maximum ages of 19 to 24 years). DDT detection frequencies were low for this study, therefore, age conclusions regarding age relationships are not possible (Figure 22 and Figure 23). Consistent with some other studies of PFAS in fish, there was no association between fish age and PFOS levels in this study (Figure 24 and Figure 25).

¹ R^2 explains the extent to which the variance of one variable (fish age) explains the variance of the second variable (COC concentration). It ranges from 0 to 1, with higher values indicating a better fit of the model to the data. If the R^2 is 0.50, then approximately half of the observed variation in concentration can be explained by age.

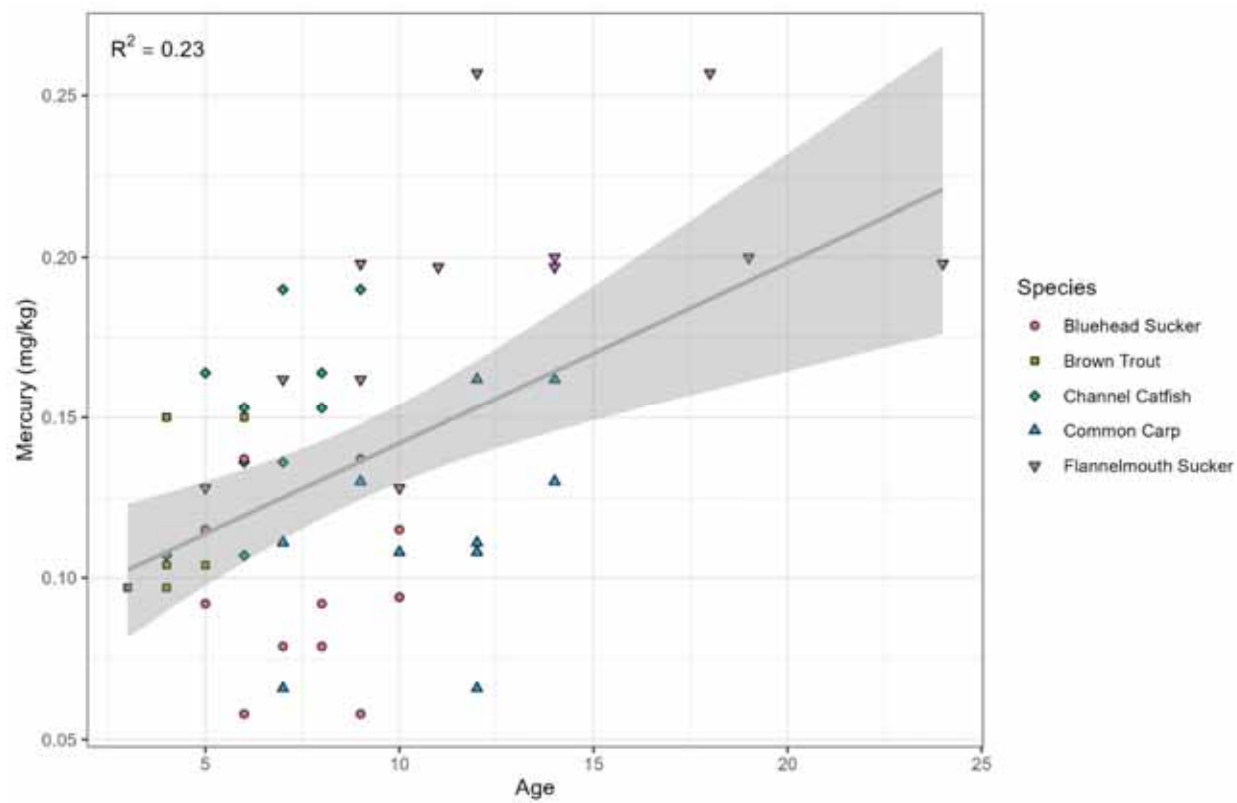


Figure 18. A Comparison of Mercury Concentrations in Animas and San Juan River Fish Fillets and Fish Age (All Species)

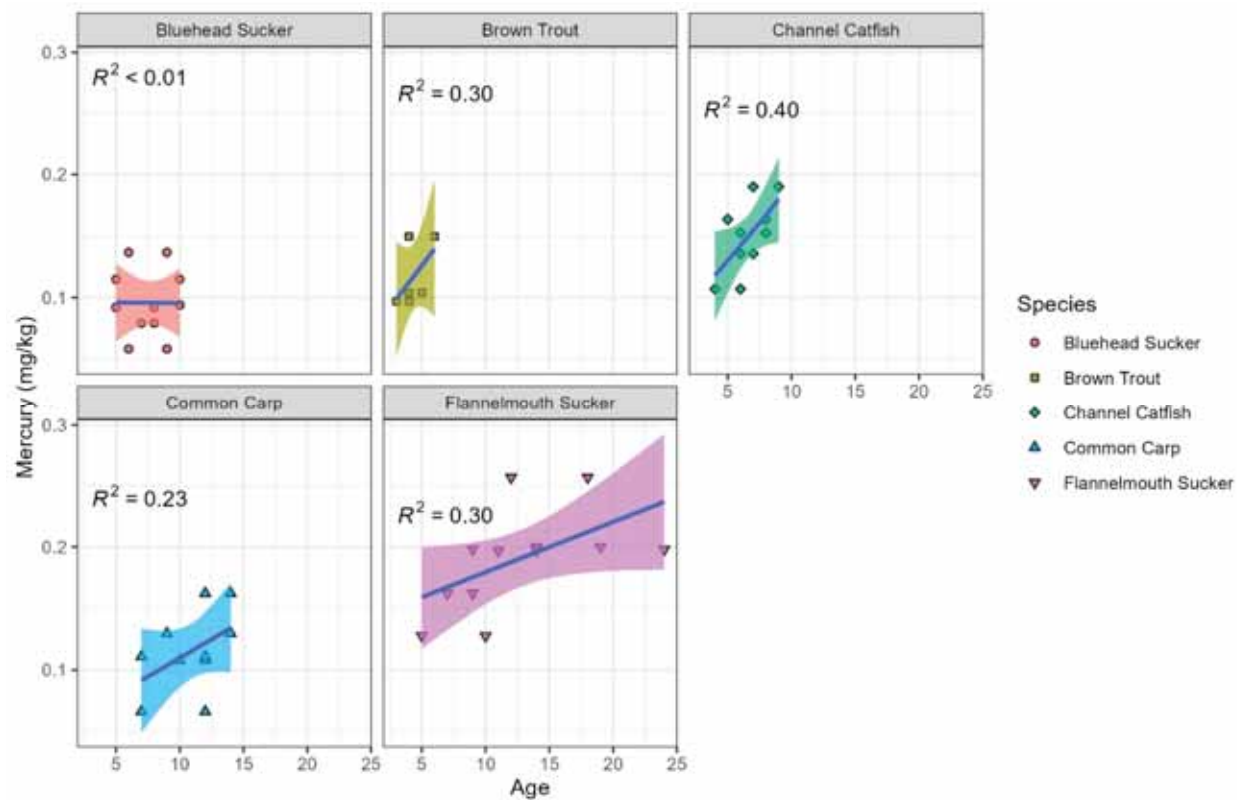


Figure 19. A Comparison of Mercury Concentrations in Fillets from Five Animas and San Juan River Fish Species and Fish Age

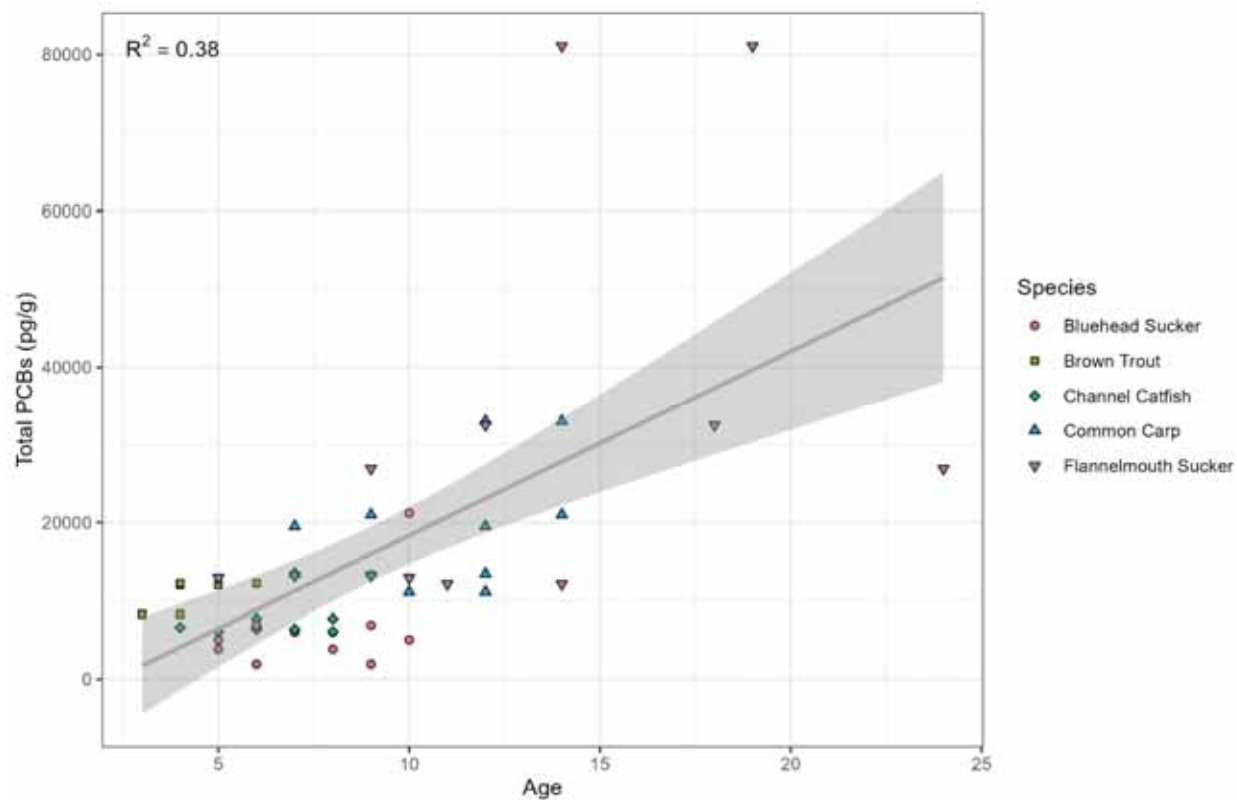


Figure 20. A Comparison of Total PCB Concentrations in Animas and San Juan River Fish Fillets and Fish Age (All Species)

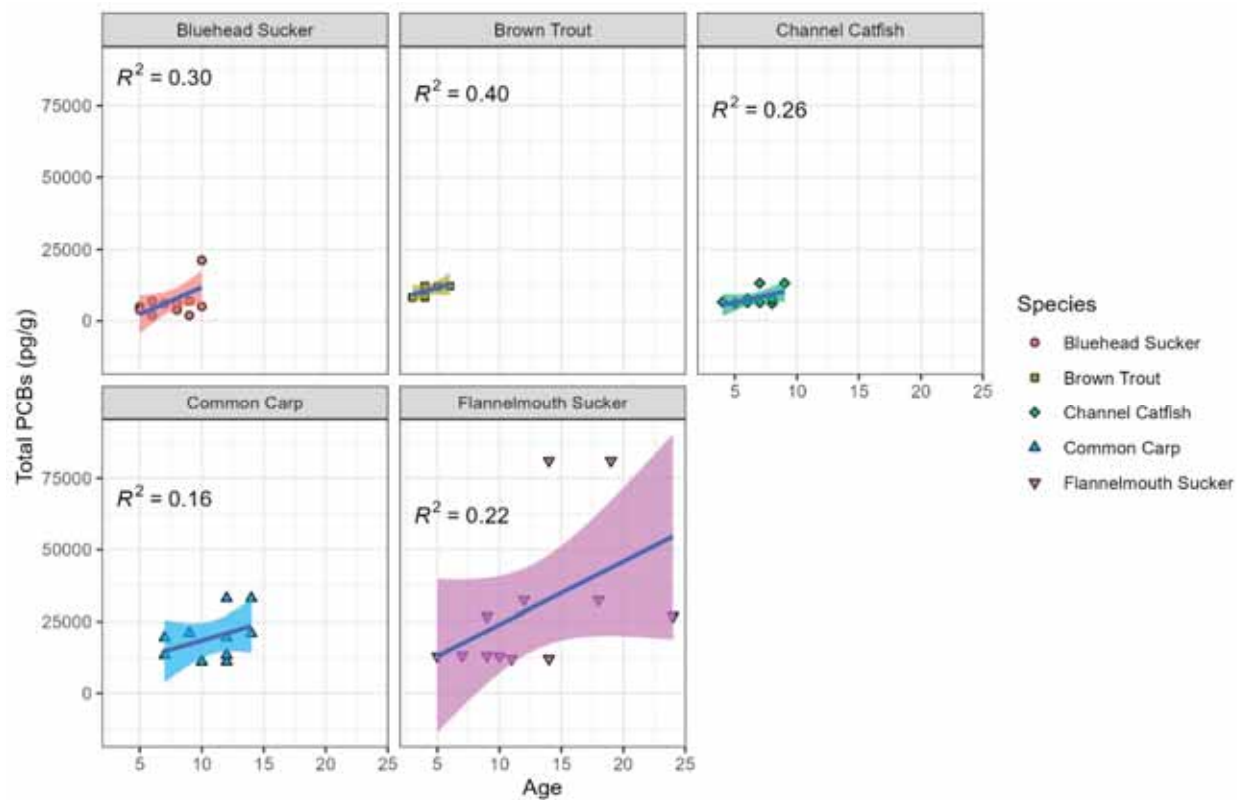


Figure 21. A Comparison of Total PCB Concentrations in Fillets from Five Animas and San Juan River Fish Species and Fish Age

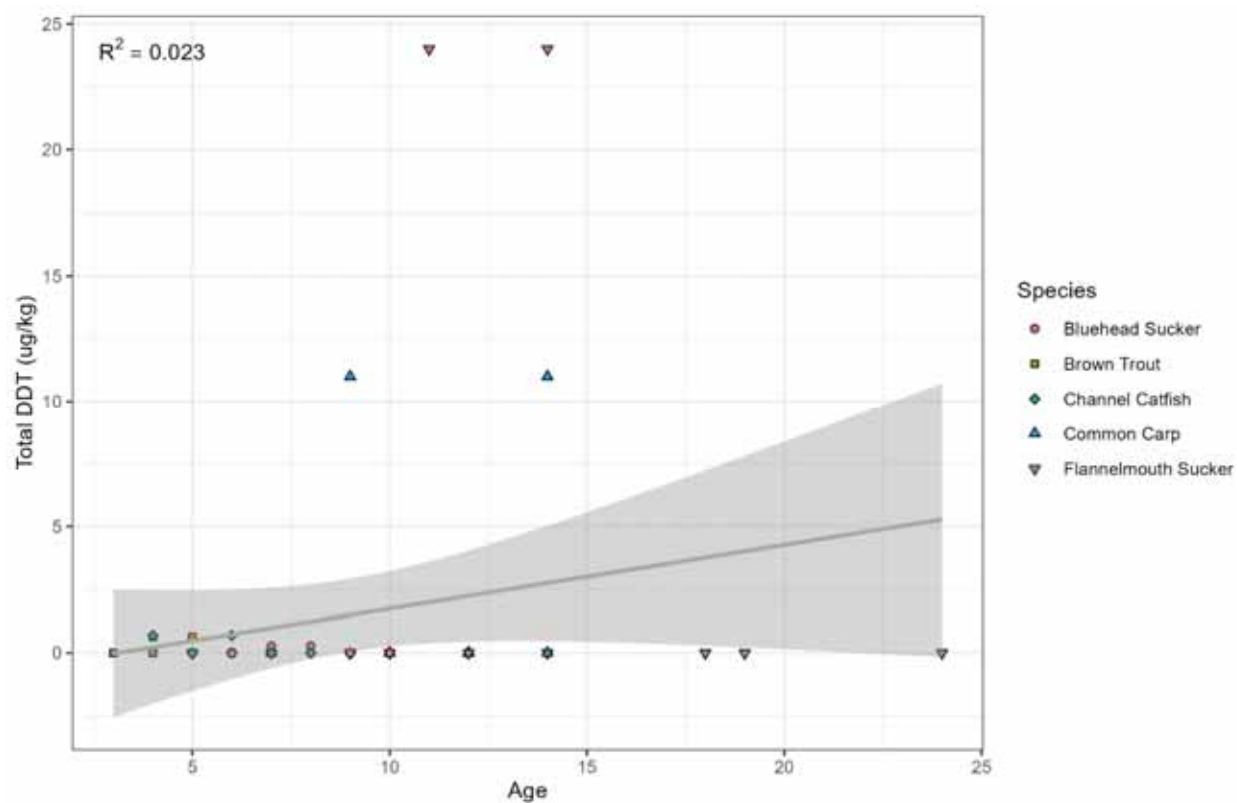


Figure 22. A comparison of Total DDT Concentrations in Animas and San Juan River Fish Fillets and Fish Age (All Species)

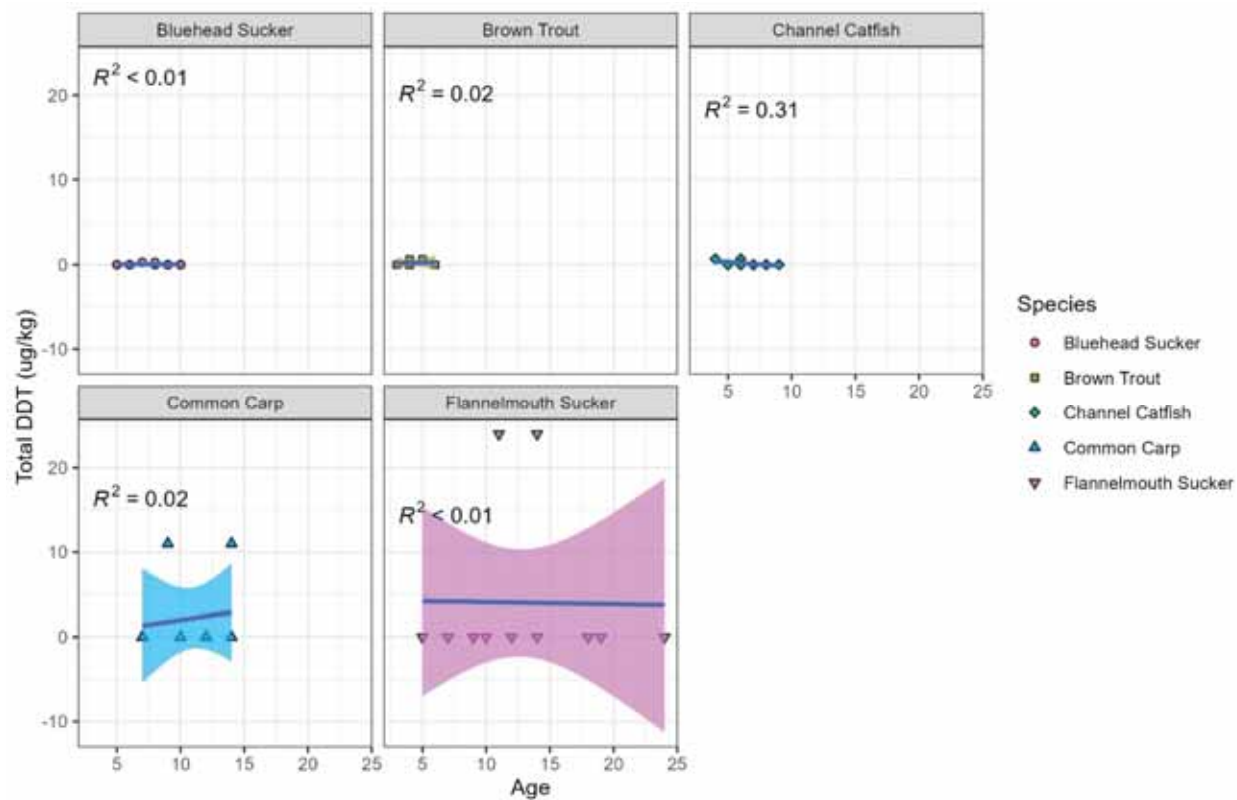


Figure 23. A Comparison of Total DDT Concentrations in Fillets from Five Animas and San Juan River Fish Species and Fish Age

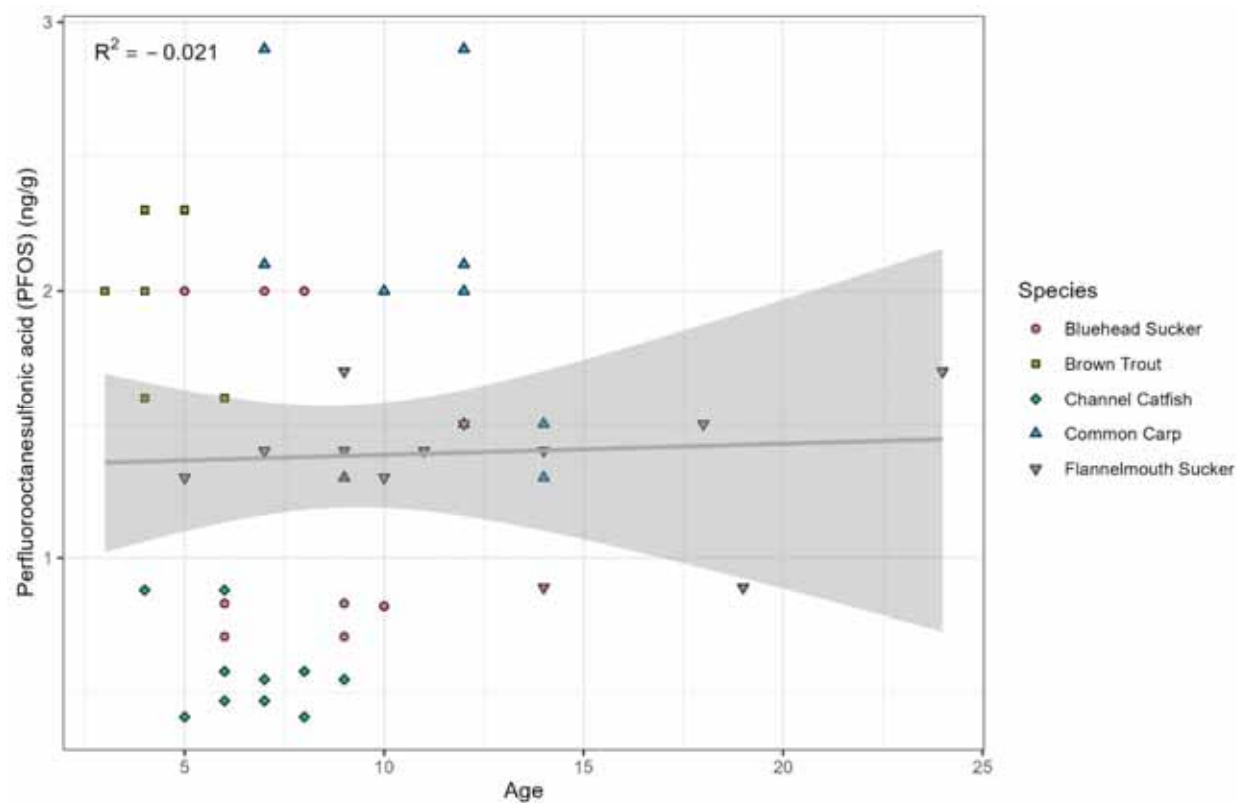


Figure 24. A Comparison of PFOS Concentrations in Animas and San Juan River Fish Fillets and Fish Age (All Species)

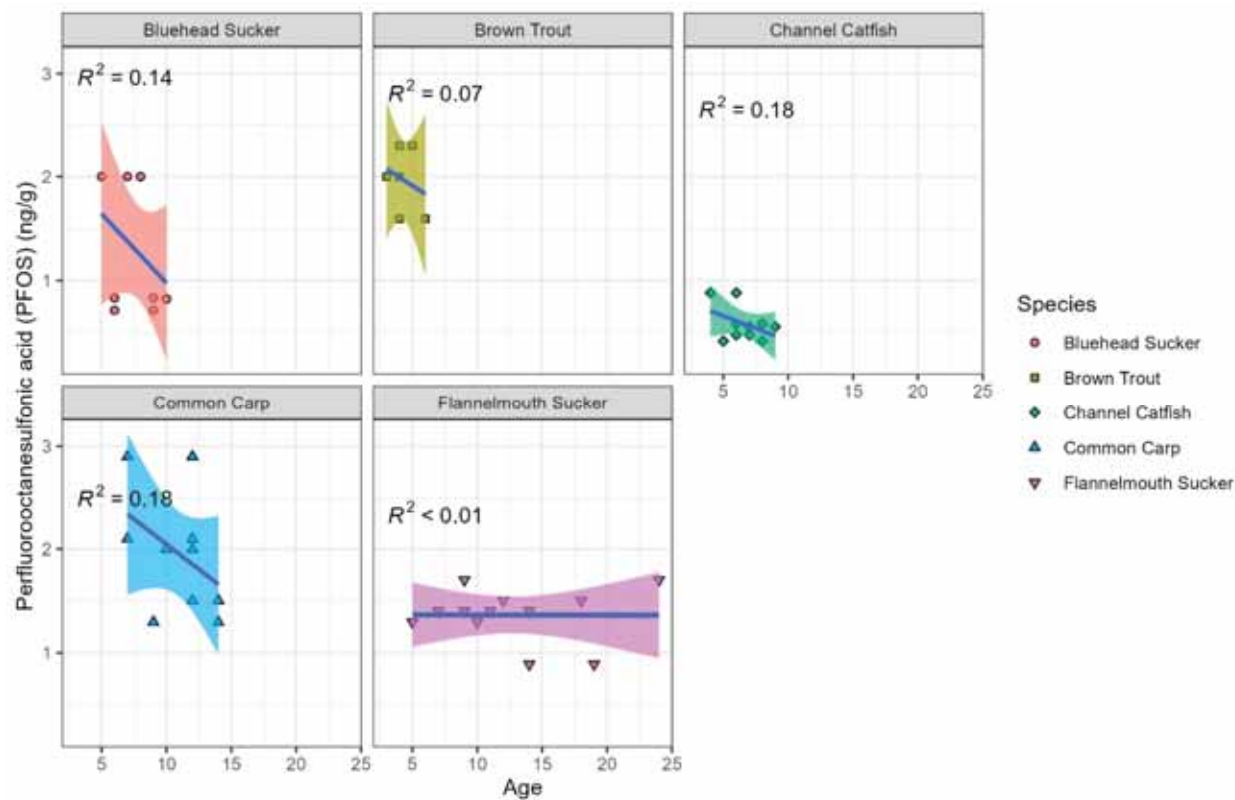


Figure 25. A Comparison of PFOS Concentrations in Fillets from Five Animas and San Juan River Fish Species and Fish Age

5 Discussion

The goal of this study was to provide a screening level assessment of target COCs in fish to help identify potential human health risk associated with fish consumption in the San Juan and Animas River study area. This study was not designed to determine causes or locate sources of fish tissue contamination and is not intended to establish fish consumption advisories. Results present current levels of COCs in San Juan River fish (collected in 2022), with five common fishes as indicator species.

As mentioned in Section 4.1, USEPA risk-based fish consumption limits (USEPA 2000b) are available for three of the target metals (arsenic, cadmium, and selenium), total PCBs, and two OC pesticides (chlordane and DDT), and the screening level applied here for mercury is the USEPA fish tissue-based water quality criterion for methylmercury (USEPA 2006b). Human health screening level tables (Tables 7 through 12) assume a meal size is 8 ounces (0.227 kg) for the general population. Consumption limits are based on an adult body weight of 70 kg, and reference doses (RfDs) and cancer slope factors are footnoted for each chemical. Cancer screening levels represent fish tissue concentrations at a 1 in 100,000 risk level.

The USEPA (2017) GKM report noted that water quality criteria exceedances for the designated use “fish consumption” occur frequently in the San Juan River as a result of arsenic and mercury levels, and that those exceedances occurred before (historically), during, and after the GKM release (post-plume in 2015 and 2016). During this 2024 study, mercury was detected in all fish samples. Results ranged from 0.058 and 0.257 mg/kg (Table 13), demonstrating that all results for all species in all river reaches were below the 0.3 mg/kg fish tissue-based water quality criterion for methylmercury (Figure 26) even when applying the conservative assumption that all mercury was present in fish tissue as methylmercury (See Section 4.0). San Juan River arsenic, cadmium, and selenium results were below the levels of detection during the 2017 fish tissue study (NNEPA and Tetra Tech 2017). However, the analytical methods applied at that time did not allow detection down to levels to consider all consumption categories. Methods applied for this study increased sensitivity and reduced RLs to make an evaluation of all consumption categories possible (Tables 7 through 9). Even with those method adjustments applied, cadmium levels in most samples were below the level of detection and the maximum concentration was 0.004 mg/kg, meaning that all samples were in the unrestricted consumption category (of 0–0.088 mg/kg) (Table 8).

Arsenic results (Table 13) show that, when considering noncancer endpoints, all species are in the unrestricted consumption category except for Bluehead Suckers and a single Flannemouth Sucker at sampling reach 5. Arsenic concentrations for Bluehead Suckers ranged from 0.114 to 0.193 mg/kg, putting their fillet results in the noncancer consumption threshold of 12 meals per month (Table 7). Application of cancer screening levels shows that four of the five Bluehead Sucker samples from the San Juan River reaches (Reaches 2 through 5) are in the “do not eat” category (>0.13 mg/kg). Consumption limits using cancer screening levels show a threshold of 2–3 meals per month for Brown Trout, 1–2 meals for Channel Catfish, and 1 meal or less per month for Common Carp and Flannemouth Suckers (Table 7 and Figure 27). Selenium results (Table 13) ranged from 0.33 to 0.71 mg/kg and those concentrations (all species) fall in the 1–2 meal per month categories (Table 9 and Figure 28).

Total PCBs concentrations ranged from 0.0019 to 0.0811 mg/kg (Table 13). When considering cancer screening levels, total PCB levels in most species and samples are in the 2–4 meals per month categories; however, results for Flannemouth Sucker samples from sampling reaches 1 and 5 fall in the <1 meal per month and 1 meal per month consumption categories, respectively (Table 10 and Figure 29).

Chlordane was not detected in any sampling reaches; therefore, no consumption restrictions apply (Table 13). DDT was detected in only 5 of the 25 total samples, and concentrations ranged from 0.00028 to 0.024 mg/kg. The highest levels, i.e., 0.024 mg/kg for Flannelmouth Suckers from Reach 3 and 0.011 mg/kg for Common Carp from Reach 4 are in the 8 meal per month and 16 meal per month consumption categories, respectively, when considering cancer screening levels (Table 11 and Figure 30). Results for all other samples and species were in the unrestricted consumption category.

In 2024, USEPA published freshwater ambient water quality criteria for PFOA and PFOS to protect aquatic life (USEPA 2024b and 2024c); however, there are no existing USEPA human health risk-based fish consumption limits for PFAS at this time. PFOS levels in fillet samples from this study ranged from ND to 2.9 ng/g. To provide perspective, those levels can be compared to national probabilistic PFOS fish tissue results from USEPA's National Rivers and Streams Assessment (NRSA) (USEPA 2023). For the 2018–2019 NRSA, PFOS in fish fillets ranged from 0.353 to 131 ng/g, with a national median concentration of 3.07 ng/g. PFOS levels in all San Juan and Animas River samples collected for this study were below that national median (Figure 31).

The 2024 study results indicate that human health risk from recreational consumption of San Juan River fish exists (with respect to the targeted COCs), is relatively low, and may be minimized by reducing meal frequency or restricting consumption of certain species shown to have higher body burdens of COCs. Fish tissue contaminants were evaluated individually. Any additive or synergistic health effects associated with chemical co-occurrence have not been evaluated and are currently unknown. It is important to note that published USEPA consumption advice and human health benchmarks were applied here, which may not reflect the consumption patterns of selected local populations or a subsistence fishing community; however, they are appropriate (based on goals of the study) for a screening level assessment of COCs in fish. Risk-based thresholds and guidelines vary between areas and agencies and can change over time. They are dynamic, in that they may change as new chemical, toxicological, and epidemiological information becomes available.

This report focuses on the target COCs in fish and potential consumption restrictions to protect human health; however, in addition to characterizing risk, it is also important to consider the benefits of eating fish. Fish are a good source of protein and essential nutrients including omega-3 fatty acids, and therefore future fish tissue monitoring efforts in the study area may want to consider fatty acid analysis to characterize the health benefits of eating local fish. Target COC decision making and selection processes for future monitoring efforts in the area should benefit from the knowledge gained from this study. The results presented here provide current information on COCs in San Juan River fish fillet tissue, provide baseline data for any future studies of temporal trends, and offer perspective on human health protection.

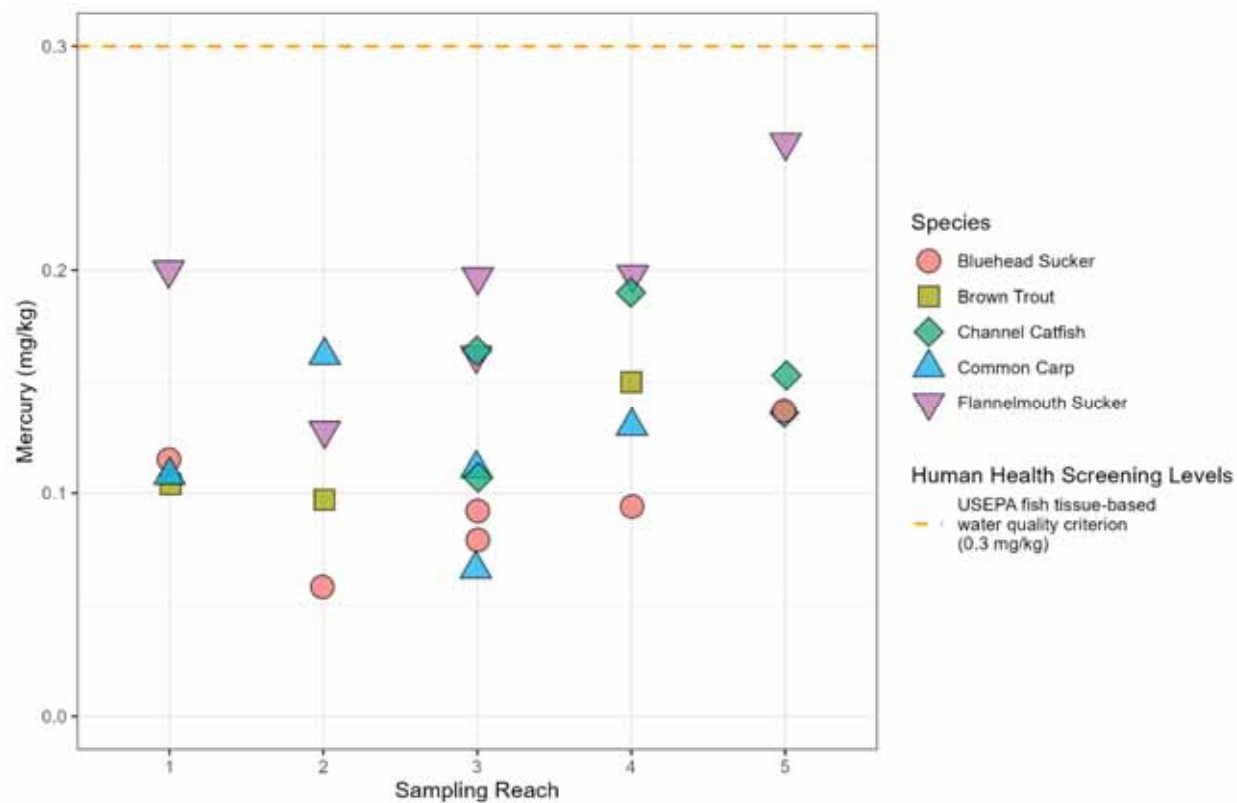


Figure 26. Mercury Levels in Fish Fillet Composite Samples from Each Sampling Reach (All Species), Human Health Screening Levels, and Relevant Consumption Limit Recommendations

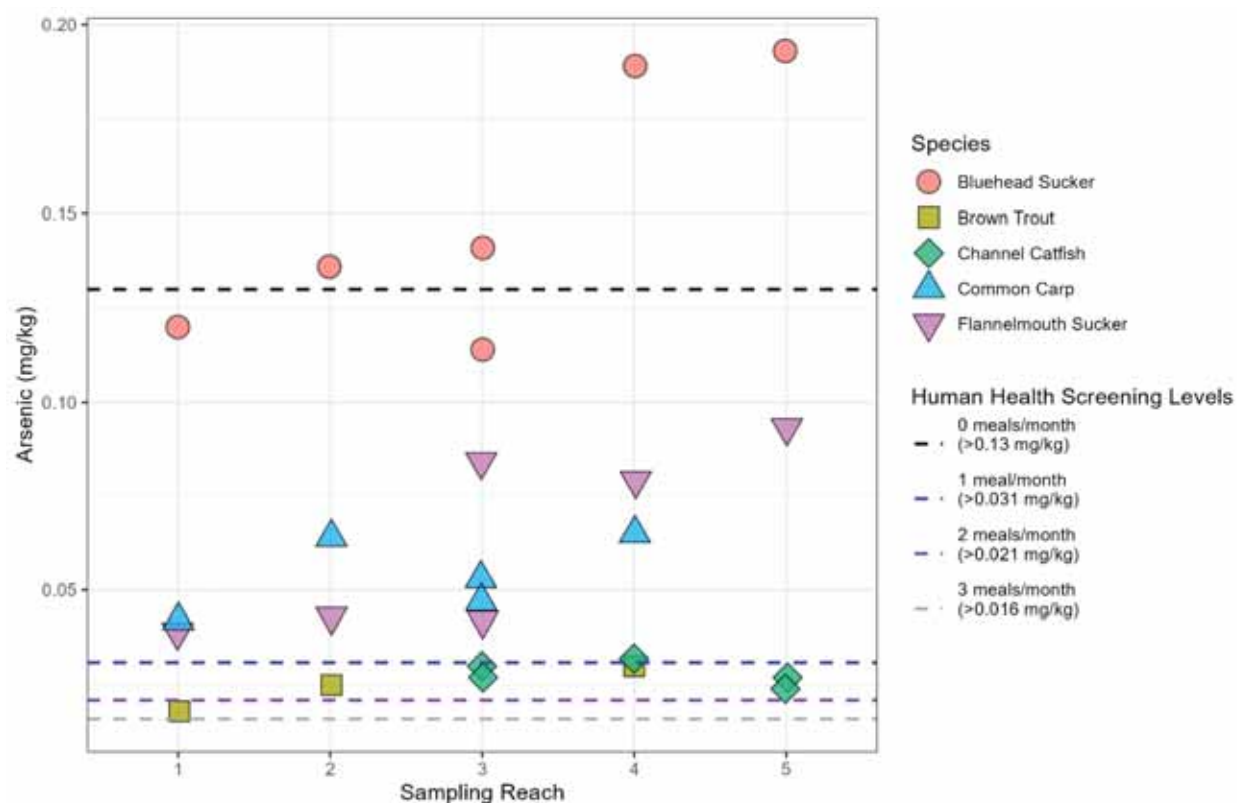


Figure 27. Arsenic Levels in Fish Fillet Composite Samples from Each Sampling Reach (All Species), Human Health Screening Levels, and Relevant Consumption Limit Recommendations

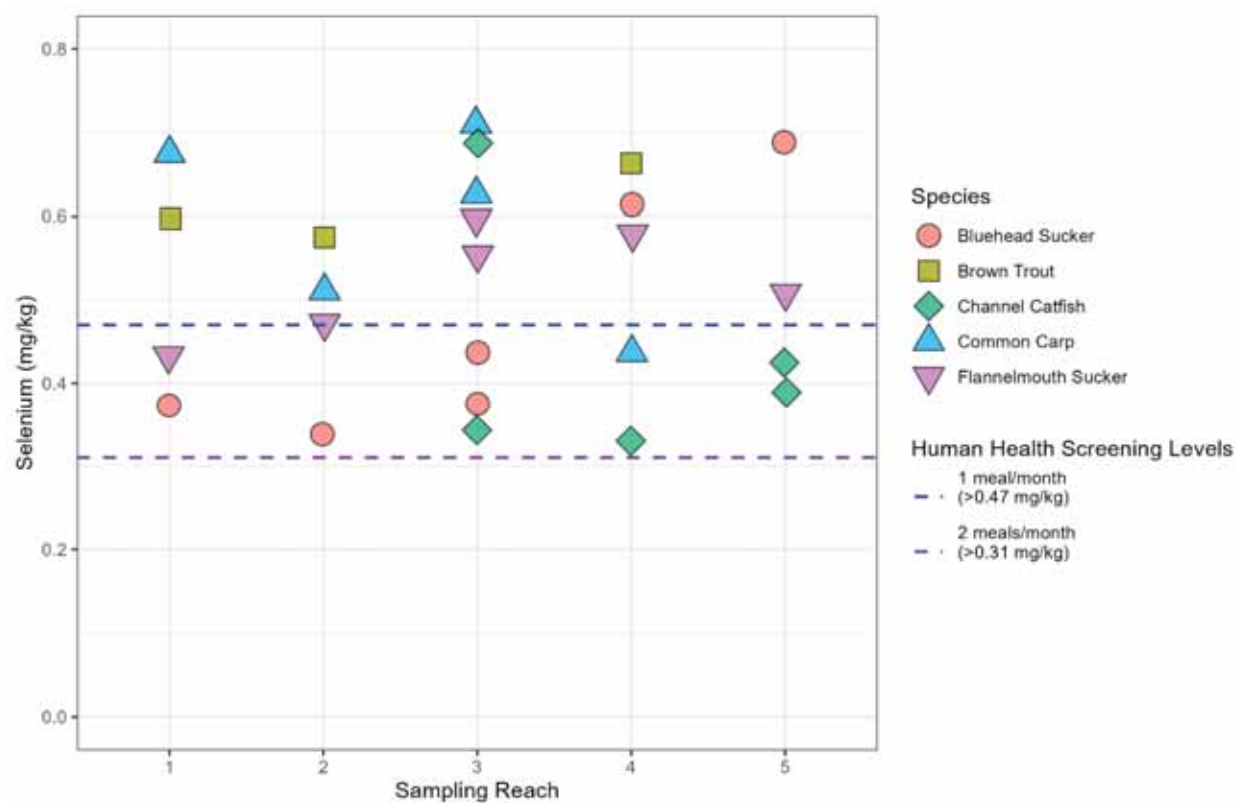


Figure 28. Selenium Levels in Fish Fillet Composite Samples from Each Sampling Reach (All Species), Human Health Screening Levels, and Relevant Consumption Limit Recommendations

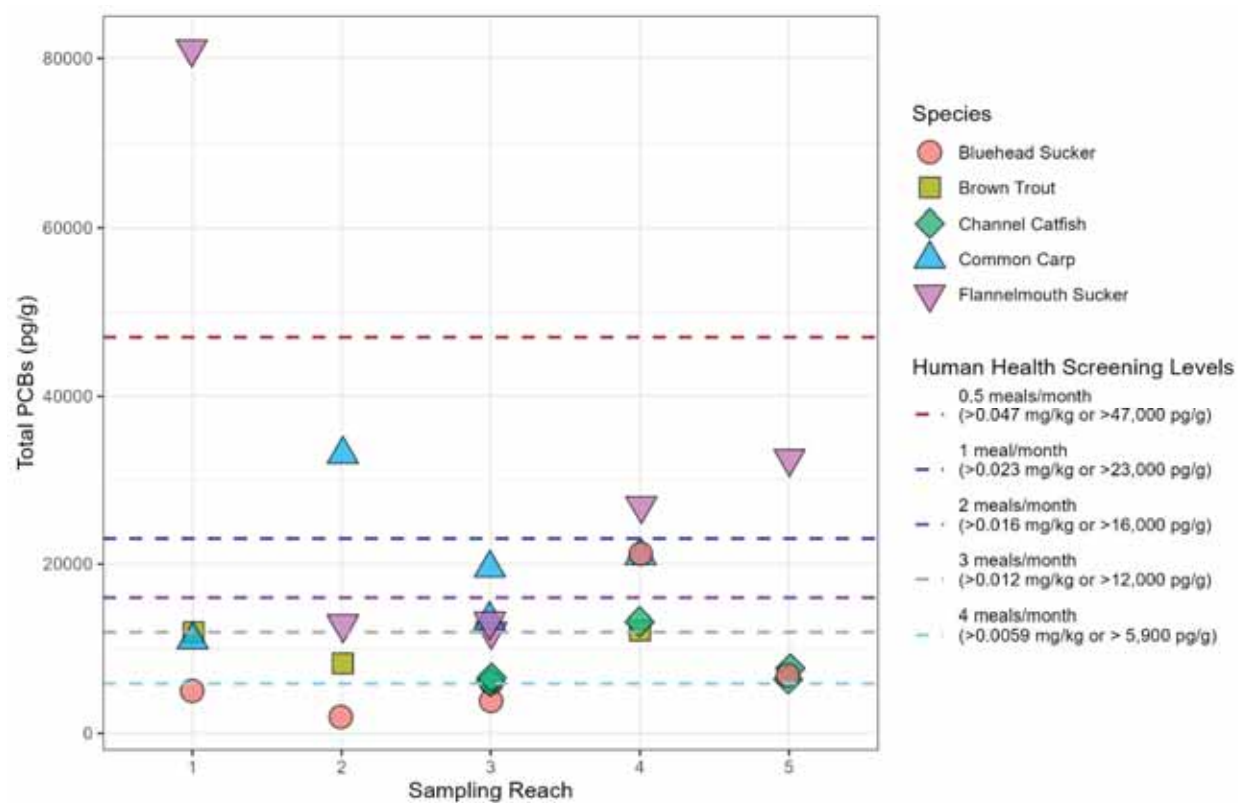


Figure 29. Total PCB Levels in Fish Fillet Composite Samples from Each Sampling Reach (All Species), Human Health Screening Levels, and Relevant Consumption Limit Recommendations

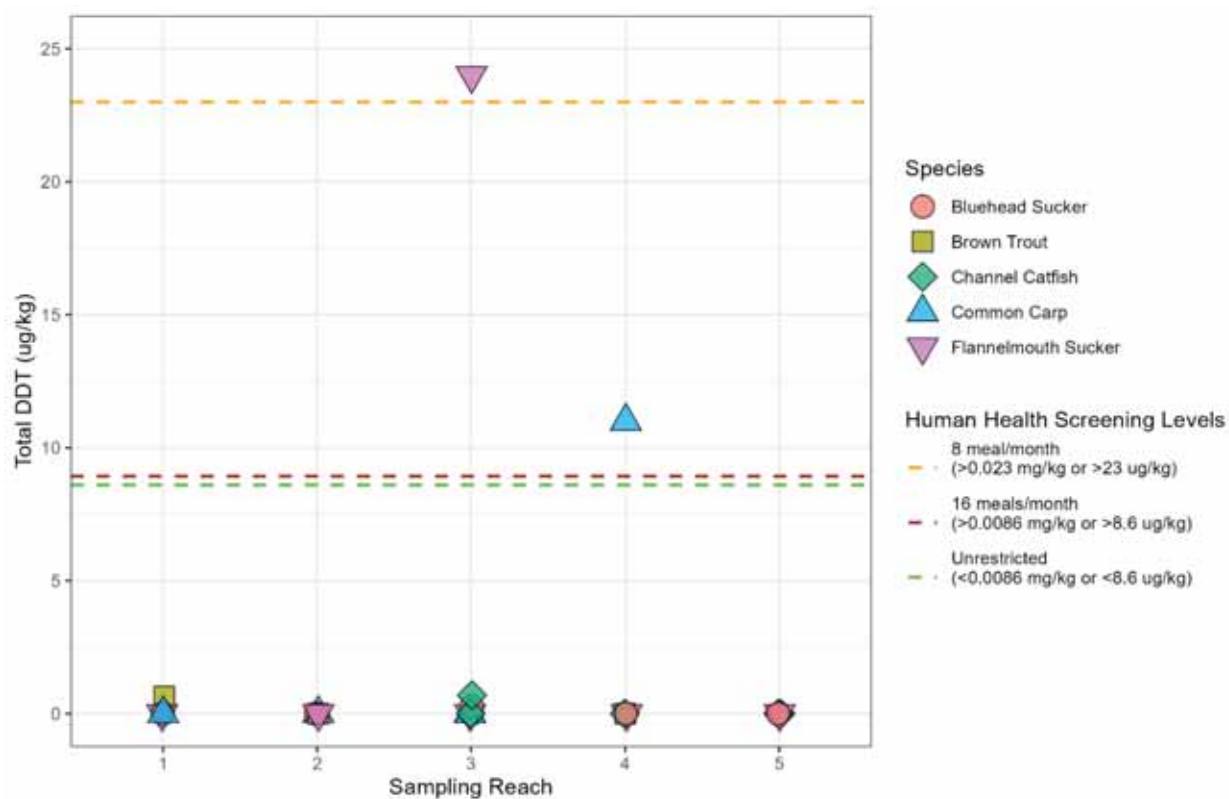


Figure 30. Total DDT Levels in Fish Fillet Composite Samples from Each Sampling Reach (All Species), Human Health Screening Levels, and Relevant Consumption Limit Recommendations

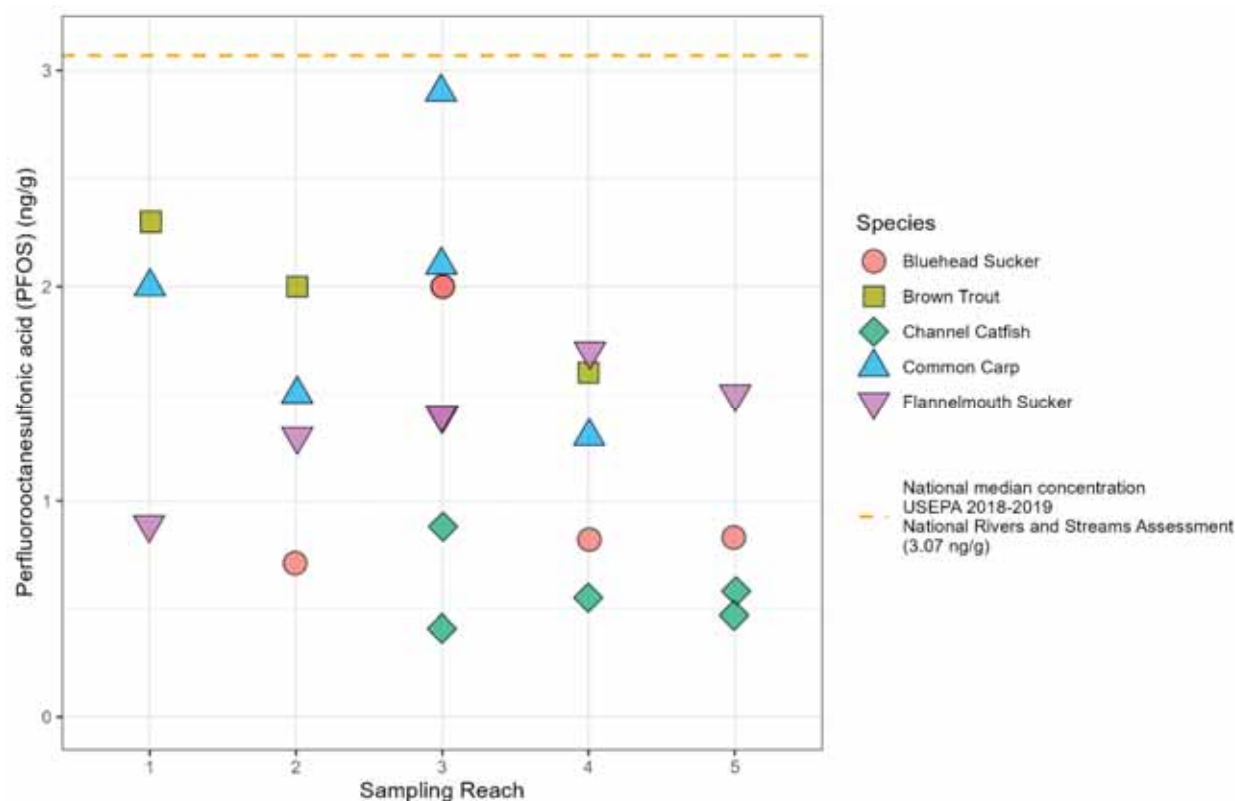


Figure 31. PFOS Levels in Fish Fillet Composite Samples from Each Sampling Reach (All Species) and the National Median Concentration from the USEPA's NRSA (2018-2019)

6 Acknowledgements

This study was made possible by the collaborative efforts of the Navajo Nation EPA, Navajo Nation Department of Fish and Wildlife, and the Tetra Tech Center for Ecological Sciences.

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APPENDIX A

Fish Composite Information, Specimen Data, and Age Determination Results

Table A1. Fish Age Determination using Otolith Annuli Counts

Reach Number	Sampling Reach	Sample ID	Species	First Specimen Aged from the Composite				Second Specimen Aged from the Composite			
				Fish Specimen Number	Length (mm)	Weight (g)	Annuli Counted	Fish Specimen Number	Length (mm)	Weight (g)	Annuli Counted
1	Aztec to Penny Lane (Animas River)	1A	Brown Trout	01	315	323	4	02	351	382	5
		1B	Flannelmouth Sucker	01	528	1385	19	03	475	1008	14
		1C	Bluehead Sucker	02	418	1011	10	04	350	734	5
		1D	Common Carp	01	571	2837	12	03	510	1940	10
2	Westland Park to Lion's Park (San Juan River)	2A	Common Carp	01	655	5885	12	03	587	3155	14
		2B	Bluehead Sucker	01	408	806	9	05	342	391	6
		2C	Brown Trout	01	315	282	4	04	270	206	3
		2D	Flannelmouth Sucker	04	473	983	10	05	375	599	5
3	Hogback to Shiprock (San Juan River)	3A	Flannelmouth Sucker	02	455	1006	11	04	509	1439	14
		3B	Bluehead Sucker	01	390	827	8	05	340	592	5
		3C	Common Carp	01	573	3050	12	04	482	1847	7
		3D	Common Carp	01	625	4497	12	02	550	2606	7
		3E	Flannelmouth Sucker	01	446	868	9	04	420	949	7
		3F	Bluehead Sucker	01	353	564	7	03	386	610	8
		3G	Channel Catfish	01	480	1222	8	04	382	495	5
		3H	Channel Catfish	03	333	336	6	05	400	581	4
4	Shiprock to Horse Camp (San Juan River)	4A	Brown Trout	01	460	992	6	03	380	549	4
		4B	Common Carp	01	669	5438	14	02	530	2286	9
		4C	Flannelmouth Sucker	01	559	1962	24	05	432	660	9
		4D	Channel Catfish	03	544	1562	9	05	453	1043	7
		4E	Bluehead Sucker	02	402	812	10	05	384	609	10
5	Horse Camp to Powerline (San Juan River)	5A	Channel Catfish	01	475	1061	8	03	408	982	6
		5B	Channel Catfish	01	441	718	6	03	385	539	7
		5C	Flannelmouth Sucker	01	548	1842	18	05	459	1166	12
		5D	Bluehead Sucker	02	418	840	9	04	365	584	6

APPENDIX B

Laboratory Blank Data Qualification Summary for PCB Congeners

Table B1. Laboratory Blank Data Qualification Summary for PCB Congeners*(Table B1 is continued on the following pages)*

Sample	Analyte	Modified Final Concentration pg/g ^a	Qualification Code ^b
1A	PCB-01 PCB-03 PCB-11 Total MonoCB	0.38U 0.43U 7.05U 1.20J	7
1B	PCB-01 PCB-11 Total DiCB	0.44U 7.35U 10.7J	7
1C	PCB-03 PCB-11	0.65U 8.06U	7
1D	PCB-001 Total MonoCB	0.409U 1.69J	7
2A**	PCB-01 PCB-03 Total MonoCB	0.20U 0.50U 0.940J	7
2B	Total MonoCB	0.530J	7
2C	PCB-001 PCB-003	0.560U 0.683U	7
2D	PCB-01 PCB-03 Total MonoCB	0.28U 0.46U 1.16J	7
3A	PCB-001	0.62U	7
3B**	PCB-011	6.7U	7
3C	PCB-01 PCB-03 Total MonoCB	0.15U 0.615U 1.01J	7
3D	PCB-001 Total MonoCB	0.23U 1.62J	7

Sample	Analyte	Modified Final Concentration pg/g ^a	Qualification Code ^b
3E	PCB-001	0.935U	7
3F	PCB-01 PCB-02 PCB-03 PCB-11 Total MonoCB	0.88U 0.72U 0.90U 8.64U 2.50J	7
3G	PCB-01 PCB-02 PCB-03 PCB-11 Total MonoCB Total DiCB	0.543U 0.50U 0.774U 3.6U 1.82J 7.00J	7
3H	PCB001 PCB-02 PCB-03 PCB-11 Total MonoCB	1.10U 1.20U 1.11U 6.05U 3.41J	7
4A	PCB-01 PCB-02 PCB-03 Total MonoCB	0.812U 0.83U 0.85U 2.49J	7
4B**	PCB-01 PCB-02 PCB-03 Total MonoCB	0.27U 0.66U 0.787U 1.72J	7
4C	PCB-01 PCB-02 PCB-03 Total MonoCB	1.66U 1.2U 1.7U 4.56J	7
4D	PCB-01 PCB-02 PCB-03 PCB-11 Total MonoCB	1.12U 0.98U 1.54U 5.87U 3.64J	7

Sample	Analyte	Modified Final Concentration pg/g ^a	Qualification Code ^b
4E	PCB-01	1.1U	7
	PCB-02	1.71U	
	PCB-03	1.7U	
	PCB-11	8.32U	
	Total MonoCB	4.51J	
5A	PCB-01	0.901U	7
	PCB-02	1.16U	
	PCB-03	0.84U	
	PCB-11	4.9U	
	Total MonoCB	2.90J	
58	PCB-01	0.789U	7
	PCB-02	0.88U	
	PCB-03	1.1U	
	PCB-11	5.14U	
	Total MonoCB	2.77J	
5C	PCB-01	1.1U	7
	PCB-02	1.82U	
	PCB-003	1.7U	
	Total MonoCB	4.62J	
5D	PCB-01	1.18U	7
	PCB-02	1.95U	
	PCB-03	1.4U	
	PCB-011	7.48U	
	Total MonoCB	4.53J	

^a U = Indicates that this compound was not detected above the Estimated Detection Limit; J = Indicates that the analyte was positively identified. The associated numerical result is an estimate.

^b Code 7 = Laboratory Method or Calibration Blank Contamination

** Indicates Level IV validation

Total MonoCB = total of monochlorobiphenyls (group of PCBs having one chlorine atom)

Total DiCB = total of dichlorobiphenyls (group of PCBs having two chlorine atoms)

APPENDIX C

Analytical Results – Metals

Table C1. Metals Concentrations in San Juan River Fish Fillets (mg/Kg, wet weight)*(Table C1 is continued on the following pages)*

Sample Code			1A				1B				1C			
Analyte	CAS	Units	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL
Aluminum	7429-90-5	mg/Kg	ND	U	3.500	5.000	ND	U	3.5000	5.000	5.9		4.1000	5.800
Antimony	7440-36-0	mg/Kg	ND	U	0.088	0.170	ND	U	0.0880	0.170	ND	U	0.1000	0.190
Arsenic	7440-38-2	mg/kg	0.018		0.001	0.004	0.039		0.0009	0.004	0.12		0.0009	0.003
Barium	7440-39-3	mg/Kg	ND	U	0.510	0.830	ND	U	0.5100	0.830	0.8	J	0.5900	0.960
Beryllium	7440-41-7	mg/Kg	ND	U	0.059	0.083	ND	U	0.0590	0.083	ND	U	0.0680	0.096
Cadmium	7440-43-9	mg/kg	ND	U	0.001	0.003	0.003		0.0010	0.003	ND	U	0.0009	0.003
Calcium	7440-70-2	mg/Kg	390		17.000	42.000	550		17.0000	42.000	410		20.0000	48.000
Chromium	7440-47-3	mg/Kg	ND	U	0.150	0.170	ND	U	0.1500	0.170	ND	U	0.1700	0.190
Cobalt	7440-48-4	mg/Kg	ND	U	0.029	0.042	ND	U	0.0290	0.042	ND	U	0.0340	0.048
Copper	7440-50-8	mg/Kg	0.43		0.170	0.250	0.44		0.1700	0.250	0.56		0.2000	0.290
Iron	7439-89-6	mg/Kg	4.2		4.000	4.200	7.6		4.0000	4.200	6.9		4.6000	4.800
Lead	7439-92-1	mg/Kg	ND	U	0.054	0.083	ND	U	0.0540	0.083	ND	U	0.0630	0.096
Magnesium	7439-95-4	mg/Kg	250		6.200	42.000	220		6.2000	42.000	240		7.2000	48.000
Manganese	7439-96-5	mg/Kg	ND	U	0.360	0.420	0.86		0.3600	0.420	0.96		0.4100	0.480
Mercury	7439-97-6	mg/kg	0.104		0.001	0.004	0.2		0.0010	0.004	0.115		0.0010	0.004

Sample Code			1A				1B				1C			
Analyte	CAS	Units	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL
Nickel	7440-02-0	mg/Kg	ND	U	0.078	0.083	ND	U	0.0780	0.083	ND	U	0.0890	0.096
Potassium	9/7/7440	mg/Kg	4500	J	12.000	42.000	3800		12.0000	42.000	3900		14.0000	48.000
Selenium	7782-49-2	mg/kg	0.597		0.002	0.005	0.433		0.0020	0.005	0.373		0.0020	0.004
Silver	7440-22-4	mg/Kg	ND	U	0.041	0.083	ND	U	0.0410	0.083	ND	U	0.0470	0.096
Sodium	7440-23-5	mg/Kg	630		21.000	42.000	690		21.0000	42.000	470		25.0000	48.000
Thallium	7440-28-0	mg/Kg	ND	U	0.058	0.083	ND	U	0.0580	0.083	ND	U	0.0660	0.096
Vanadium	7440-62-2	mg/Kg	ND	U	0.078	0.083	ND	U	0.0780	0.083	ND	U	0.0890	0.096
Zinc	7440-66-6	mg/Kg	9.2		0.670	1.300	9.8		0.6700	1.300	11		0.7700	1.400

Sample Code			1D				2A				2B			
Analyte	CAS	Units	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL
Aluminum	7429-90-5	mg/Kg	ND	U	3.9000	5.500	ND	U	3.9000	5.600	ND	U	3.2000	4.500
Antimony	7440-36-0	mg/Kg	ND	U	0.0960	0.180	ND	U	0.0980	0.190	ND	U	0.0800	0.150
Arsenic	7440-38-2	mg/kg	0.042		0.0009	0.004	0.064		0.0008	0.003	0.136		0.0009	0.004
Barium	7440-39-3	mg/Kg	ND	U	0.5600	0.910	ND	U	0.5700	0.930	0.7	J	0.4600	0.760
Beryllium	7440-41-7	mg/Kg	ND	U	0.0650	0.091	ND	U	0.0660	0.093	ND	U	0.0540	0.076
Cadmium	7440-43-9	mg/kg	0.003		0.0010	0.003	0.004		0.0009	0.003	ND	U	0.0010	0.003

Sample Code			1D				2A				2B			
Analyte	CAS	Units	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL
Calcium	7440-70-2	mg/Kg	220		19.0000	45.000	120		19.0000	46.000	730		15.0000	38.000
Chromium	7440-47-3	mg/Kg	ND	U	0.1600	0.180	ND	U	0.1600	0.190	ND	U	0.1300	0.150
Cobalt	7440-48-4	mg/Kg	ND	U	0.0320	0.045	ND	U	0.0320	0.046	ND	U	0.0270	0.038
Copper	7440-50-8	mg/Kg	1.2		0.1900	0.270	2.1		0.1900	0.280	0.47		0.1600	0.230
Iron	7439-89-6	mg/Kg	17		4.3000	4.500	17		4.4000	4.600	5.2		3.6000	3.800
Lead	7439-92-1	mg/Kg	ND	U	0.0590	0.091	ND	U	0.0600	0.093	ND	U	0.0490	0.076
Magnesium	7439-95-4	mg/Kg	210		6.8000	45.000	200		6.9000	46.000	250		5.6000	38.000
Manganese	7439-96-5	mg/Kg	ND	U	0.3900	0.450	ND	U	0.4000	0.460	2.5		0.3300	0.380
Mercury	7439-97-6	mg/kg	0.108		0.0010	0.004	0.162		0.0010	0.004	0.058		0.0010	0.004
Nickel	7440-02-0	mg/Kg	ND	U	0.0850	0.091	ND	U	0.0860	0.093	ND	U	0.0700	0.076
Potassium	9/7/7440	mg/Kg	3500	J	13.0000	45.000	3200	J	13.0000	46.000	3900		11.0000	38.000
Selenium	7782-49-2	mg/kg	0.675		0.0020	0.004	0.511		0.0020	0.004	0.338		0.0020	0.005
Silver	7440-22-4	mg/Kg	ND	U	0.0450	0.091	ND	U	0.0450	0.093	ND	U	0.0370	0.076
Sodium	7440-23-5	mg/Kg	700		23.0000	45.000	660		24.0000	46.000	560		19.0000	38.000
Thallium	7440-28-0	mg/Kg	ND	U	0.0630	0.091	ND	U	0.0640	0.093	ND	U	0.0520	0.076
Vanadium	7440-62-2	mg/Kg	ND	U	0.0850	0.091	ND	U	0.0860	0.093	ND	U	0.0700	0.076
Zinc	7440-66-6	mg/Kg	14		0.7300	1.400	16		0.7400	1.400	9.8		0.6000	1.100

Sample Code			2C				2D				3A			
Analyte	CAS	Units	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL
Aluminum	7429-90-5	mg/Kg	ND	U	3.7000	5.200	ND	U	4.100	5.800	ND	U	4.1000	5.800
Antimony	7440-36-0	mg/Kg	ND	U	0.0910	0.170	ND	U	0.100	0.190	ND	U	0.1000	0.190
Arsenic	7440-38-2	mg/kg	0.025		0.0009	0.003	0.043		0.001	0.004	0.042		0.0008	0.003
Barium	7440-39-3	mg/Kg	ND	U	0.5300	0.860	0.61	J	0.590	0.960	ND	U	0.5900	0.960
Beryllium	7440-41-7	mg/Kg	ND	U	0.0610	0.086	ND	U	0.068	0.096	ND	U	0.0680	0.096
Cadmium	7440-43-9	mg/kg	ND	U	0.0010	0.003	ND	U	0.001	0.003	ND	U	0.0009	0.003
Calcium	7440-70-2	mg/Kg	300		18.0000	43.000	1000		20.000	48.000	890		20.0000	48.000
Chromium	7440-47-3	mg/Kg	ND	U	0.1500	0.170	ND	U	0.170	0.190	ND	U	0.1700	0.190
Cobalt	7440-48-4	mg/Kg	ND	U	0.0300	0.043	ND	U	0.034	0.048	ND	U	0.0340	0.048
Copper	7440-50-8	mg/Kg	0.43		0.1800	0.260	0.42		0.200	0.290	0.44		0.2000	0.290
Iron	7439-89-6	mg/Kg	ND	U	4.1000	4.300	6.1		4.600	4.800	7.6		4.6000	4.800
Lead	7439-92-1	mg/Kg	ND	U	0.0560	0.086	ND	U	0.063	0.096	ND	U	0.0630	0.096
Magnesium	7439-95-4	mg/Kg	270		6.4000	43.000	250		7.200	48.000	230		7.2000	48.000
Manganese	7439-96-5	mg/Kg	ND	U	0.3700	0.430	1.3		0.410	0.480	0.95		0.4100	0.480
Mercury	7439-97-6	mg/kg	0.097		0.0010	0.004	0.128		0.001	0.004	0.197		0.0060	0.019
Nickel	7440-02-0	mg/Kg	ND	U	0.0800	0.086	ND	U	0.089	0.096	ND	U	0.0890	0.096
Potassium	9/7/7440	mg/Kg	4600		13.0000	43.000	4100		14.000	48.000	3900		14.0000	48.000

Sample Code			2C				2D				3A			
Analyte	CAS	Units	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL
Selenium	7782-49-2	mg/kg	0.575		0.0020	0.004	0.472		0.002	0.005	0.554		0.0020	0.004
Silver	7440-22-4	mg/Kg	ND	U	0.0420	0.086	ND	U	0.047	0.096	ND	U	0.0470	0.096
Sodium	7440-23-5	mg/Kg	610		22.0000	43.000	620		25.000	48.000	460		25.0000	48.000
Thallium	7440-28-0	mg/Kg	ND	U	0.0590	0.086	ND	U	0.066	0.096	ND	U	0.0660	0.096
Vanadium	7440-62-2	mg/Kg	ND	U	0.0800	0.086	ND	U	0.089	0.096	ND	U	0.0890	0.096
Zinc	7440-66-6	mg/Kg	8.3		0.6900	1.300	14		0.770	1.400	11		0.7700	1.400

Sample Code			3B				3C				3D			
Analyte	CAS	Units	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL
Aluminum	7429-90-5	mg/Kg	ND	U	3.900	5.500	ND	U	3.400	4.800	ND	U	3.3000	4.700
Antimony	7440-36-0	mg/Kg	ND	U	0.096	0.180	ND	U	0.084	0.160	ND	U	0.0830	0.160
Arsenic	7440-38-2	mg/kg	0.114		0.001	0.004	0.053		0.001	0.004	0.047		0.0008	0.003
Barium	7440-39-3	mg/Kg	0.94		0.560	0.910	ND	U	0.490	0.790	ND	U	0.4800	0.780
Beryllium	7440-41-7	mg/Kg	ND	U	0.065	0.091	ND	U	0.056	0.079	ND	U	0.0550	0.078
Cadmium	7440-43-9	mg/kg	ND	U	0.001	0.003	ND	U	0.001	0.003	0.002	J	0.0009	0.003
Calcium	7440-70-2	mg/Kg	820		19.000	45.000	140		16.000	40.000	260		16.0000	39.000
Chromium	7440-47-3	mg/Kg	ND	U	0.160	0.180	ND	U	0.140	0.160	ND	U	0.1400	0.160

Sample Code			3B				3C				3D			
Analyte	CAS	Units	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL
Cobalt	7440-48-4	mg/Kg	ND	U	0.032	0.045	ND	U	0.028	0.040	ND	U	0.0270	0.039
Copper	7440-50-8	mg/Kg	0.53		0.190	0.270	0.92		0.160	0.240	0.91		0.1600	0.230
Iron	7439-89-6	mg/Kg	5.3		4.300	4.500	13		3.800	4.000	16		3.7000	3.900
Lead	7439-92-1	mg/Kg	ND	U	0.059	0.091	ND	U	0.052	0.079	ND	U	0.0510	0.078
Magnesium	7439-95-4	mg/Kg	230		6.800	45.000	210		5.900	40.000	220		5.8000	39.000
Manganese	7439-96-5	mg/Kg	1.9		0.390	0.450	ND	U	0.340	0.400	ND	U	0.3400	0.390
Mercury	7439-97-6	mg/kg	0.092		0.001	0.004	0.066		0.001	0.004	0.111		0.0010	0.004
Nickel	7440-02-0	mg/Kg	ND	U	0.085	0.091	ND	U	0.074	0.079	ND	U	0.0730	0.078
Potassium	9/7/7440	mg/Kg	3500	J	13.000	45.000	3300	J	12.000	40.000	3400		11.0000	39.000
Selenium	7782-49-2	mg/kg	0.375		0.002	0.005	0.71		0.002	0.005	0.626		0.0020	0.004
Silver	7440-22-4	mg/Kg	ND	U	0.045	0.091	ND	U	0.039	0.079	ND	U	0.0380	0.078
Sodium	7440-23-5	mg/Kg	460		23.000	45.000	660		20.000	40.000	660		20.0000	39.000
Thallium	7440-28-0	mg/Kg	ND	U	0.063	0.091	ND	U	0.055	0.079	ND	U	0.0540	0.078
Vanadium	7440-62-2	mg/Kg	ND	U	0.085	0.091	ND	U	0.074	0.079	ND	U	0.0730	0.078
Zinc	7440-66-6	mg/Kg	10		0.730	1.400	18		0.630	1.200	16		0.6200	1.200

Sample Code			3E				3F				3G			
Analyte	CAS	Units	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL
Aluminum	7429-90-5	mg/Kg	ND	U	3.600	5.100	ND	U	3.8000	5.400	ND	U	3.9000	5.600
Antimony	7440-36-0	mg/Kg	ND	U	0.090	0.170	ND	U	0.0950	0.180	ND	U	0.0980	0.190
Arsenic	7440-38-2	mg/kg	0.084		0.001	0.004	0.141		0.0008	0.003	0.03		0.0008	0.003
Barium	7440-39-3	mg/Kg	0.82	J	0.520	0.850	0.93		0.5500	0.890	ND	U	0.5700	0.930
Beryllium	7440-41-7	mg/Kg	ND	U	0.060	0.085	ND	U	0.0630	0.089	ND	U	0.0660	0.093
Cadmium	7440-43-9	mg/kg	ND	U	0.001	0.003	ND	U	0.0009	0.003	ND	U	0.0009	0.003
Calcium	7440-70-2	mg/Kg	1200		17.000	42.000	710		18.0000	45.000	89		19.0000	46.000
Chromium	7440-47-3	mg/Kg	ND	U	0.150	0.170	ND	U	0.1600	0.180	ND	U	0.1600	0.190
Cobalt	7440-48-4	mg/Kg	ND	U	0.030	0.042	ND	U	0.0310	0.045	ND	U	0.0320	0.046
Copper	7440-50-8	mg/Kg	0.42		0.170	0.250	0.42		0.1800	0.270	0.47		0.1900	0.280
Iron	7439-89-6	mg/Kg	5.4		4.100	4.200	ND	U	4.3000	4.500	5.10		4.4000	4.600
Lead	7439-92-1	mg/Kg	0.067	J	0.055	0.085	ND	U	0.0580	0.089	ND	U	0.0600	0.093
Magnesium	7439-95-4	mg/Kg	240		6.300	42.000	230		6.6000	45.000	220		6.9000	46.000
Manganese	7439-96-5	mg/Kg	1.4		0.360	0.420	1.8		0.3800	0.450	ND	U	0.4000	0.460
Mercury	7439-97-6	mg/kg	0.162		0.001	0.004	0.079		0.0010	0.004	0.164		0.0060	0.018
Nickel	7440-02-0	mg/Kg	ND	U	0.079	0.085	ND	U	0.0830	0.089	ND	U	0.0860	0.093
Potassium	9/7/7440	mg/Kg	4000		12.000	42.000	3700	J	13.0000	45.000	4100		13.0000	46.000

Sample Code			3E				3F				3G			
Analyte	CAS	Units	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL
Selenium	7782-49-2	mg/kg	0.597		0.002	0.005	0.437		0.0020	0.004	0.343		0.0020	0.004
Silver	7440-22-4	mg/Kg	ND	U	0.042	0.085	ND	U	0.0440	0.089	ND	U	0.0450	0.093
Sodium	7440-23-5	mg/Kg	540		22.000	42.000	510		23.0000	45.000	630		24.0000	46.000
Thallium	7440-28-0	mg/Kg	ND	U	0.058	0.085	ND	U	0.0620	0.089	ND	U	0.0640	0.093
Vanadium	7440-62-2	mg/Kg	ND	U	0.079	0.085	ND	U	0.0830	0.089	ND	U	0.0860	0.093
Zinc	7440-66-6	mg/Kg	10		0.680	1.300	9.4		0.7100	1.300	6.9		0.7400	1.400

Sample Code			3H				4A				4B			
Analyte	CAS	Units	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL
Aluminum	7429-90-5	mg/Kg	ND	U	3.1000	4.400	ND	U	4.200	5.900	ND	U	3.2000	4.500
Antimony	7440-36-0	mg/Kg	ND	U	0.0780	0.150	ND	U	0.100	0.200	ND	U	0.0800	0.150
Arsenic	7440-38-2	mg/kg	0.027		0.0009	0.004	0.03		0.001	0.004	0.065		0.0009	0.004
Barium	7440-39-3	mg/Kg	ND	U	0.4500	0.740	ND	U	0.600	0.980	ND	U	0.4600	0.760
Beryllium	7440-41-7	mg/Kg	ND	U	0.0520	0.074	ND	U	0.070	0.098	ND	U	0.0540	0.076
Cadmium	7440-43-9	mg/kg	0.002	J	0.0010	0.003	ND	U	0.001	0.003	0.002	J	0.0010	0.003
Calcium	7440-70-2	mg/Kg	130		15.0000	37.000	800		20.000	49.000	350		15.0000	38.000
Chromium	7440-47-3	mg/Kg	ND	U	0.1300	0.150	ND	U	0.170	0.200	ND	U	0.1300	0.150

Sample Code			3H				4A				4B			
Analyte	CAS	Units	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL
Cobalt	7440-48-4	mg/Kg	ND	U	0.0260	0.037	ND	U	0.034	0.049	ND	U	0.0270	0.038
Copper	7440-50-8	mg/Kg	0.4		0.1500	0.220	0.46		0.200	0.290	1		0.1600	0.230
Iron	7439-89-6	mg/Kg	20		3.5000	3.700	5.8		4.700	4.900	16		3.6000	3.800
Lead	7439-92-1	mg/Kg	ND	U	0.0480	0.074	ND	U	0.064	0.098	ND	U	0.0490	0.076
Magnesium	7439-95-4	mg/Kg	220		5.5000	37.000	270		7.300	49.000	230		5.6000	38.000
Manganese	7439-96-5	mg/Kg	ND	U	0.3200	0.370	0.46	J	0.420	0.490	0.38		0.3300	0.380
Mercury	7439-97-6	mg/kg	0.107		0.0010	0.004	0.15		0.001	0.004	0.13		0.0010	0.004
Nickel	7440-02-0	mg/Kg	ND	U	0.0680	0.074	ND	U	0.091	0.098	ND	U	0.0700	0.076
Potassium	9/7/7440	mg/Kg	3700	J	11.0000	37.000	4400		14.000	49.000	3400		11.0000	38.000
Selenium	7782-49-2	mg/kg	0.687		0.0020	0.005	0.663		0.002	0.005	0.437		0.0020	0.005
Silver	7440-22-4	mg/Kg	ND	U	0.0360	0.074	ND	U	0.048	0.098	ND	U	0.0370	0.076
Sodium	7440-23-5	mg/Kg	700		19.0000	37.000	610		25.000	49.000	710		19.0000	38.000
Thallium	7440-28-0	mg/Kg	ND	U	0.0510	0.074	ND	U	0.068	0.098	ND	U	0.0520	0.076
Vanadium	7440-62-2	mg/Kg	ND	U	0.0680	0.074	ND	U	0.091	0.098	ND	U	0.0700	0.076
Zinc	7440-66-6	mg/Kg	7		0.5900	1.100	7.5		0.780	1.500	15		0.6000	1.100

Sample Code			4C				4D				4E			
Analyte	CAS	Units	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL
Aluminum	7429-90-5	mg/Kg	3.6	J	2.800	3.900	ND	U	3.900	5.600	ND	U	3.600	5.100
Antimony	7440-36-0	mg/Kg	ND	U	0.070	0.130	ND	U	0.098	0.190	ND	U	0.090	0.170
Arsenic	7440-38-2	mg/kg	0.079		0.001	0.004	0.032		0.001	0.004	0.189		0.001	0.004
Barium	7440-39-3	mg/Kg	1.2		0.400	0.660	ND	U	0.570	0.930	0.94		0.520	0.850
Beryllium	7440-41-7	mg/Kg	ND	U	0.047	0.066	ND	U	0.066	0.093	ND	U	0.060	0.085
Cadmium	7440-43-9	mg/kg	ND	U	0.001	0.003	0.002	J	0.001	0.003	ND	U	0.001	0.003
Calcium	7440-70-2	mg/Kg	790		13.000	33.000	69		19.000	46.000	780		17.000	42.000
Chromium	7440-47-3	mg/Kg	ND	U	0.120	0.130	0.21		0.160	0.190	ND	U	0.150	0.170
Cobalt	7440-48-4	mg/Kg	0.057		0.023	0.033	ND	U	0.032	0.046	ND	U	0.030	0.042
Copper	7440-50-8	mg/Kg	0.49		0.130	0.200	0.43		0.190	0.280	0.53		0.170	0.250
Iron	7439-89-6	mg/Kg	5.3		3.100	3.300	6.3		4.400	4.600	8.5		4.100	4.200
Lead	7439-92-1	mg/Kg	0.14		0.043	0.066	ND	U	0.060	0.093	ND	U	0.055	0.085
Magnesium	7439-95-4	mg/Kg	220		4.900	33.000	180		6.900	46.000	200		6.300	42.000
Manganese	7439-96-5	mg/Kg	0.96		0.280	0.330	ND	U	0.400	0.460	1.7		0.360	0.420
Mercury	7439-97-6	mg/kg	0.198		0.001	0.004	0.19		0.001	0.004	0.094		0.001	0.004
Nickel	7440-02-0	mg/Kg	0.076		0.061	0.066	ND	U	0.086	0.093	ND	U	0.079	0.085
Potassium	9/7/7440	mg/Kg	3400		9.500	33.000	3200	J	13.000	46.000	3000	J	12.000	42.000

Sample Code			4C				4D				4E			
Analyte	CAS	Units	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL
Selenium	7782-49-2	mg/kg	0.579		0.002	0.005	0.33		0.002	0.005	0.614		0.002	0.005
Silver	7440-22-4	mg/Kg	ND	U	0.032	0.066	ND	U	0.045	0.093	ND	U	0.042	0.085
Sodium	7440-23-5	mg/Kg	560		17.000	33.000	570		24.000	46.000	420		22.000	42.000
Thallium	7440-28-0	mg/Kg	0.072		0.045	0.066	ND	U	0.064	0.093	ND	U	0.058	0.085
Vanadium	7440-62-2	mg/Kg	ND	U	0.061	0.066	ND	U	0.086	0.093	ND	U	0.079	0.085
Zinc	7440-66-6	mg/Kg	9.9		0.530	0.990	5.8		0.740	1.400	12		0.680	1.300

Sample Code			5A				5B				5C			
Analyte	CAS	Units	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL
Aluminum	7429-90-5	mg/Kg	ND	U	2.7000	3.800	ND	U	3.7000	5.200	ND	U	3.7000	5.200
Antimony	7440-36-0	mg/Kg	ND	U	0.0680	0.130	ND	U	0.0910	0.170	ND	U	0.0910	0.170
Arsenic	7440-38-2	mg/kg	0.027		0.0008	0.003	0.024		0.0009	0.004	0.093		0.0009	0.004
Barium	7440-39-3	mg/Kg	ND	U	0.3900	0.640	ND	U	0.5300	0.860	0.93		0.5300	0.860
Beryllium	7440-41-7	mg/Kg	ND	U	0.0460	0.064	ND	U	0.0610	0.086	ND	U	0.0610	0.086
Cadmium	7440-43-9	mg/kg	0.002	J	0.0009	0.003	0.002	J	0.0010	0.003	ND	U	0.0010	0.003
Calcium	7440-70-2	mg/Kg	98		13.0000	32.000	99		18.0000	43.000	1500		18.0000	43.000
Chromium	7440-47-3	mg/Kg	ND	U	0.1100	0.130	ND	U	0.1500	0.170	ND	U	0.1500	0.170

Sample Code			5A				5B				5C			
Analyte	CAS	Units	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL
Cobalt	7440-48-4	mg/Kg	ND	U	0.0220	0.032	ND	U	0.0300	0.043	ND	U	0.0300	0.043
Copper	7440-50-8	mg/Kg	0.37		0.1300	0.190	0.49		0.1800	0.260	0.39		0.1800	0.260
Iron	7439-89-6	mg/Kg	4.4		3.1000	3.200	8.7		4.1000	4.300	5.6		4.1000	4.300
Lead	7439-92-1	mg/Kg	ND	U	0.0420	0.064	ND	U	0.0560	0.086	0.096		0.0560	0.086
Magnesium	7439-95-4	mg/Kg	210		4.8000	32.000	210		6.4000	43.000	200		6.4000	43.000
Manganese	7439-96-5	mg/Kg	ND	U	0.2800	0.320	ND	U	0.3700	0.430	1.5		0.3700	0.430
Mercury	7439-97-6	mg/kg	0.153		0.0010	0.004	0.136		0.0010	0.004	0.257		0.0070	0.020
Nickel	7440-02-0	mg/Kg	ND	U	0.0600	0.064	ND	U	0.0800	0.086	ND	U	0.0800	0.086
Potassium	9/7/7440	mg/Kg	3700		9.3000	32.000	3800	J	13.0000	43.000	3200		13.0000	43.000
Selenium	7782-49-2	mg/kg	0.389		0.0020	0.004	0.425		0.0020	0.005	0.508		0.0020	0.004
Silver	7440-22-4	mg/Kg	ND	U	0.0310	0.064	ND	U	0.0420	0.086	ND	U	0.0420	0.086
Sodium	7440-23-5	mg/Kg	740		16.0000	32.000	760		22.0000	43.000	480		22.0000	43.000
Thallium	7440-28-0	mg/Kg	ND	U	0.0440	0.064	ND	U	0.0590	0.086	ND	U	0.0590	0.086
Vanadium	7440-62-2	mg/Kg	ND	U	0.0600	0.064	ND	U	0.0800	0.086	ND	U	0.0800	0.086
Zinc	7440-66-6	mg/Kg	6.3		0.5100	0.960	6.8		0.6900	1.300	16		0.6900	1.300

Sample Code			5D			
Analyte	CAS	Units	Result	Qualifier	MDL	RL
Aluminum	7429-90-5	mg/Kg	12		3.900	5.500
Antimony	7440-36-0	mg/Kg	ND	U	0.096	0.180
Arsenic	7440-38-2	mg/kg	0.193		0.001	0.004
Barium	7440-39-3	mg/Kg	0.83	J	0.560	0.910
Beryllium	7440-41-7	mg/Kg	ND	U	0.065	0.091
Cadmium	7440-43-9	mg/kg	ND	U	0.001	0.003
Calcium	7440-70-2	mg/Kg	560		19.000	45.000
Chromium	7440-47-3	mg/Kg	ND	U	0.160	0.180
Cobalt	7440-48-4	mg/Kg	ND	U	0.032	0.045
Copper	7440-50-8	mg/Kg	0.48		0.190	0.270
Iron	7439-89-6	mg/Kg	5.5		4.300	4.500
Lead	7439-92-1	mg/Kg	ND	U	0.059	0.091
Magnesium	7439-95-4	mg/Kg	220		6.800	45.000
Manganese	7439-96-5	mg/Kg	1.4		0.390	0.450
Mercury	7439-97-6	mg/kg	0.137		0.001	0.004
Nickel	7440-02-0	mg/Kg	ND	U	0.085	0.091
Potassium	9/7/7440	mg/Kg	3200		13.000	45.000

Sample Code			5D			
Analyte	CAS	Units	Result	Qualifier	MDL	RL
Selenium	7782-49-2	mg/kg	0.688		0.002	0.005
Silver	7440-22-4	mg/Kg	ND	U	0.045	0.091
Sodium	7440-23-5	mg/Kg	450		23.000	45.000
Thallium	7440-28-0	mg/Kg	ND	U	0.063	0.091
Vanadium	7440-62-2	mg/Kg	ND	U	0.085	0.091
Zinc	7440-66-6	mg/Kg	9.8		0.730	1.400

J (Estimated): The reported result was an estimated quantity value.

U (Non-detected): The analyte was not detected above the level of the adjusted detection limit or quantitation limit, as appropriate.

APPENDIX D

Analytical Results – PCB Congeners

Table D1. PCB Congener Concentrations in San Juan River Fish Fillets (pg/g, wet weight)*(Table D1 is continued on the following pages)*

Sample Code			1A				1B				1C			
Lab Sample ID			L2756294-1				L2756294-2				L2756294-3			
Analyte	CAS	Units	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL
PCB-001	2051-60-7	pg/g	0.38	UJ	0.100	0.100	0.44	UJ	0.440	0.440	1.2	J	0.20	0.20
PCB-002	2051-61-8	pg/g	0.39	J	0.110	0.110	ND	U	0.450	0.450	0.45	J	0.21	0.21
PCB-003	2051-62-9	pg/g	0.43	UJ	0.120	0.120	ND	U	0.510	0.510	0.65	UJ	0.24	0.24
PCB-004	13029-08-8	pg/g	1.3	J	0.630	0.630	ND	M,U	2.500	2.500	19.7		2.60	2.60
PCB-005	16605-91-7	pg/g	ND	U	0.410	0.410	ND	U	1.300	1.300	ND	U	1.70	1.70
PCB-006	25569-80-6	pg/g	ND	U	0.370	0.370	ND	U	1.200	1.200	12	M,NJ	1.50	1.50
PCB-007	33284-50-3	pg/g	ND	U	0.380	0.380	ND	U	1.200	1.200	2.7	M,NJ	1.50	1.50
PCB-008	34883-43-7	pg/g	3.21	M	0.330	0.330	3.39	M	1.000	1.000	60.3	M	1.30	1.30
PCB-009	34883-39-1	pg/g	ND	U	0.370	0.370	ND	U	1.200	1.200	3.8	M,NJ	1.50	1.50
PCB-010	33146-45-1	pg/g	ND	U	0.360	0.360	ND	U	1.100	1.100	ND	U	1.40	1.40
PCB-011	2050-67-1	pg/g	7.05	U	0.530	0.530	7.35	U	2.000	2.000	8.06	U	2.00	2.00
PCB-012+PCB-013	PCB12_13	pg/g	ND	U	0.540	0.540	ND	U	2.000	2.000	ND	U	2.10	2.10
PCB-014	34883-41-5	pg/g	ND	U	0.530	0.530	ND	U	2.000	2.000	ND	U	2.00	2.00
PCB-015	2050-68-2	pg/g	ND	U	0.580	0.580	ND	U	2.000	2.000	15		2.20	2.20

Sample Code			1A				1B				1C			
Lab Sample ID			L2756294-1				L2756294-2				L2756294-3			
Analyte	CAS	Units	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL
PCB-016	38444-78-9	pg/g	0.78	J	0.220	0.220	5.23	M	0.760	0.760	32.5	M	1.30	1.30
PCB-017	37680-66-3	pg/g	5.64		0.190	0.190	6.06		0.650	0.650	39.7		1.10	1.10
PCB-018+PCB-030	PCB18_30	pg/g	13.2		0.160	0.160	11	M	0.560	0.560	86.2		0.95	0.95
PCB-019	38444-73-4	pg/g	0.71	J	0.200	0.200	1.2	J	0.720	0.720	7.4	M,NJ	0.60	0.60
PCB-020+PCB-028	PCB20_28	pg/g	92.5		0.260	0.260	76.4		1.200	1.200	135		0.64	0.64
PCB-021+PCB-033	PCB21_33	pg/g	10.3		0.250	0.250	5.5	J	1.100	1.100	66		0.61	0.61
PCB-022	38444-85-8	pg/g	16.1		0.280	0.280	14.4	M	1.300	1.300	42.1		0.69	0.69
PCB-023	55720-44-0	pg/g	ND	U	0.260	0.260	ND	U	1.200	1.200	ND	U	0.64	0.64
PCB-024	55702-45-9	pg/g	0.235	J	0.160	0.160	ND	U	0.540	0.540	1.5	J	0.91	0.91
PCB-025	55712-37-3	pg/g	2.97		0.240	0.240	1.57	M,J	1.100	1.100	7.97		0.60	0.60
PCB-026+PCB-029	PCB26_29	pg/g	8.16		0.250	0.250	6.33	M	1.100	1.100	20.4		0.61	0.61
PCB-027	38444-76-7	pg/g	1.07	J	0.140	0.140	0.768	J	0.470	0.470	4.8	M,NJ	0.80	0.80
PCB-031	16606-02-3	pg/g	50.7		0.240	0.240	38.6		1.100	1.100	100		0.58	0.58
PCB-032	38444-77-8	pg/g	4.82		0.130	0.130	4.5	M,NJ	0.440	0.440	21.7		0.74	0.74
PCB-034	37680-68-5	pg/g	ND	U	0.260	0.260	ND	U	1.200	1.200	ND	M,U	0.64	0.64
PCB-035	37680-69-6	pg/g	ND	U	0.290	0.290	ND	U	1.400	1.400	ND	U	0.72	0.72

Sample Code			1A				1B				1C			
Lab Sample ID			L2756294-1				L2756294-2				L2756294-3			
Analyte	CAS	Units	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL
PCB-036	38444-87-0	pg/g	ND	U	0.240	0.240	ND	U	1.100	1.100	ND	U	0.59	0.59
PCB-037	38444-90-5	pg/g	6.38		0.270	0.270	7.07	M	1.200	1.200	26.7		0.75	0.75
PCB-038	53555-66-1	pg/g	ND	U	0.280	0.280	ND	U	1.300	1.300	ND	U	0.68	0.68
PCB-039	38444-88-1	pg/g	ND	U	0.290	0.290	ND	U	1.300	1.300	1.62	J	0.71	0.71
PCB-040+PCB-041+PCB-071	PCB40_41_71	pg/g	27.2		0.160	0.160	34.7		0.400	0.400	51.6		0.54	0.54
PCB-042	36559-22-5	pg/g	39		0.180	0.180	55.8		0.460	0.460	31.7		0.63	0.63
PCB-043	70362-46-8	pg/g	4.32	M	0.180	0.180	6.84	M	0.440	0.440	4.76		0.60	0.60
PCB-044+PCB-047+PCB-065	PCB44_47_65	pg/g	133		0.140	0.140	390		0.350	0.350	110		0.48	0.48
PCB-045+PCB-051	PCB45_51	pg/g	6.54	M	0.160	0.160	9.07		0.390	0.390	17	J	0.53	0.53
PCB-046	41464-47-5	pg/g	ND	U	0.170	0.170	1.32	M,J	0.430	0.430	4.62		0.59	0.59
PCB-048	70362-47-9	pg/g	4.13	M	0.160	0.160	27.8		0.400	0.400	27		0.55	0.55
PCB-049+PCB-069	PCB49_69	pg/g	115		0.130	0.130	348		0.340	0.340	72.9		0.46	0.46
PCB-050+PCB-053	PCB50_53	pg/g	6.46		0.150	0.150	4.4	J	0.380	0.380	13.7		0.51	0.51
PCB-052	35693-99-3	pg/g	275	M	0.170	0.170	1230	M	0.420	0.420	197	M	0.57	0.57
PCB-054	15968-05-5	pg/g	ND	U	0.050	0.050	ND	U	0.300	0.300	ND	M,U	0.19	0.19
PCB-055	74338-24-2	pg/g	2.44		0.200	0.200	ND	U	0.870	0.870	0.895	M,J	0.78	0.78

Sample Code			1A				1B				1C			
Lab Sample ID			L2756294-1				L2756294-2				L2756294-3			
Analyte	CAS	Units	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL
PCB-056	41464-43-1	pg/g	21.7		0.180	0.180	103		0.790	0.790	30.9		0.70	0.70
PCB-057	70424-67-8	pg/g	0.732	J	0.190	0.190	ND	U	0.840	0.840	ND	U	0.75	0.75
PCB-058	41464-49-7	pg/g	1.31	M,J	0.190	0.190	20.9	M	0.830	0.830	0.85	M,J	0.74	0.74
PCB-059+PCB-062+PCB-075	PCB59_62_75	pg/g	12.7		0.110	0.110	14.4		0.290	0.290	11.3		0.40	0.40
PCB-060	33025-41-1	pg/g	41.2	M	0.190	0.190	89.7		0.850	0.850	26.9	M	0.76	0.76
PCB-061+PCB-070+PCB-074+PCB-076	PCB61_70_74_76	pg/g	327		0.180	0.180	1840		0.800	0.800	191		0.72	0.72
PCB-063	74472-34-7	pg/g	8.19		0.180	0.180	21.6		0.800	0.800	3.8	J	0.71	0.71
PCB-064	52663-58-8	pg/g	83.6		0.120	0.120	214		0.290	0.290	52.7		0.40	0.40
PCB-066	32598-10-0	pg/g	145		0.180	0.180	564		0.790	0.790	83.6	M	0.71	0.71
PCB-067	73575-53-8	pg/g	3.39		0.160	0.160	2.6	J	0.710	0.710	3.18		0.63	0.63
PCB-068	73575-52-7	pg/g	2.86		0.180	0.180	2.1	J	0.790	0.790	2.08	J	0.71	0.71
PCB-072	41464-42-0	pg/g	1.63	J	0.180	0.180	1.58	M,J	0.820	0.820	0.81	J	0.73	0.73
PCB-073	74338-23-1	pg/g	0.894	M,J	0.110	0.110	3	M,NJ	0.290	0.290	0.56	J	0.39	0.39
PCB-077	32598-13-3	pg/g	18.9	M	0.220	0.220	22.3	M	0.830	0.830	16	M,NJ	0.84	0.84
PCB-078	70362-49-1	pg/g	0.307	M,J	0.210	0.210	0.95	J	0.940	0.940	ND	U	0.84	0.84
PCB-079	41464-48-6	pg/g	4.33		0.170	0.170	49.3		0.730	0.730	2.28	J	0.66	0.66

Sample Code			1A				1B				1C			
Lab Sample ID			L2756294-1				L2756294-2				L2756294-3			
Analyte	CAS	Units	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL
PCB-080	33284-52-5	pg/g	ND	M,U	0.150	0.150	ND	U	0.690	0.690	ND	U	0.61	0.61
PCB-081	70362-50-4	pg/g	1.07	J	0.200	0.200	0.84	J	0.770	0.770	ND	U	0.84	0.84
PCB-082	52663-62-4	pg/g	46		0.720	0.720	507		1.900	1.900	23.2		1.30	1.30
PCB-083+PCB-099	PCB83_99	pg/g	446	M	0.580	0.580	3880		1.500	1.500	150		1.10	1.10
PCB-084	52663-60-2	pg/g	35.3		0.610	0.610	479		1.600	1.600	39.2		1.10	1.10
PCB-085+PCB-110+PCB-115+PCB-116+PCB-117	PCBCONGPK301	pg/g	788	M	0.430	0.430	8590	M	1.100	1.100	297	M	0.80	0.80
PCB-086+PCB-087+PCB-097+PCB-109+PCB-119+PCB-125	PCBCONGPK302	pg/g	354	M	0.450	0.450	4040	M	1.200	1.200	146	M	0.83	0.83
PCB-088+PCB-091	PCB88_91	pg/g	59.4		0.580	0.580	586		1.500	1.500	27		1.10	1.10
PCB-089	73575-57-2	pg/g	1.2	J	0.690	0.690	15.4		1.800	1.800	1.3	J	1.30	1.30
PCB-090+PCB-101+PCB-113	PCB90_101_113	pg/g	639		0.470	0.470	6470		1.200	1.200	250		0.86	0.86
PCB-092	52663-61-3	pg/g	105		0.640	0.640	952		1.700	1.700	44.3		1.20	1.20
PCB-093+PCB-098+PCB-100+PCB-102	PCBCONGPK303	pg/g	5	M,NJ	0.540	0.540	67.9	M	1.400	1.400	6.38	M	0.99	0.99
PCB-094	73575-55-0	pg/g	ND	U	0.610	0.610	1.7	J	1.600	1.600	ND	U	1.10	1.10
PCB-095	38379-99-6	pg/g	300	M	0.660	0.660	2430	M	1.700	1.700	160	M	1.20	1.20
PCB-096	73575-54-9	pg/g	0.15	J	0.130	0.130	8.14		0.300	0.300	ND	M,U	0.55	0.55

Sample Code			1A				1B				1C			
Lab Sample ID			L2756294-1				L2756294-2				L2756294-3			
Analyte	CAS	Units	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL
PCB-103	60145-21-3	pg/g	2.1	J	0.550	0.550	14		1.400	1.400	1.6	J	1.00	1.00
PCB-104	56558-16-8	pg/g	ND	U	0.110	0.110	ND	U	0.290	0.290	ND	U	0.49	0.49
PCB-105	32598-14-4	pg/g	279		0.480	0.480	3010		1.000	1.000	78.3		0.93	0.93
PCB-106	70424-69-0	pg/g	ND	U	0.490	0.490	ND	U	1.100	1.100	ND	U	1.00	1.00
PCB-107	70424-68-9	pg/g	54.4		0.430	0.430	441		0.990	0.990	18		0.90	0.90
PCB-108+PCB-124	PCB108_124	pg/g	21.2		0.450	0.450	265		1.000	1.000	8.68		0.95	0.95
PCB-111	39635-32-0	pg/g	ND	U	0.400	0.400	ND	U	1.000	1.000	ND	U	0.73	0.73
PCB-112	74472-36-9	pg/g	0.84	J	0.390	0.390	ND	U	1.000	1.000	ND	U	0.72	0.72
PCB-114	74472-37-0	pg/g	21.3		0.510	0.510	217		1.100	1.100	6.98		1.10	1.10
PCB-118	31508-00-6	pg/g	804		0.430	0.430	8250		0.900	0.900	266	M	0.89	0.89
PCB-120	68194-12-7	pg/g	2.85		0.380	0.380	5.46	M	1.000	1.000	2.43	M,J	0.71	0.71
PCB-121	56558-18-0	pg/g	1.36	J	0.400	0.400	ND	U	1.100	1.100	ND	U	0.75	0.75
PCB-122	76842-07-4	pg/g	3.9	M,NJ	0.590	0.590	71.6		1.400	1.400	2.2	J	1.30	1.30
PCB-123	65510-44-3	pg/g	13.1		0.490	0.490	122		1.200	1.200	3.1	J	0.96	0.96
PCB-126	57465-28-8	pg/g	4.5	J	0.560	0.560	8.37	M	1.200	1.200	1.7	J	1.00	1.00
PCB-127	39635-33-1	pg/g	2.33	M,J	0.460	0.460	19.2	M	1.100	1.100	ND	U	0.96	0.96

Sample Code			1A				1B				1C			
Lab Sample ID			L2756294-1				L2756294-2				L2756294-3			
Analyte	CAS	Units	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL
PCB-128+PCB-166	PCB128_166	pg/g	186		0.260	0.260	1240		0.870	0.870	34.4		0.56	0.56
PCB-129+PCB-138+PCB-163	PCB129_138_163	pg/g	1400	M	0.300	0.300	9010	M	1.000	1.000	327		0.65	0.65
PCB-130	52663-66-8	pg/g	78		0.360	0.360	462		1.200	1.200	18.6		0.76	0.76
PCB-131	61798-70-7	pg/g	10.1		0.380	0.380	52.5		1.300	1.300	3.26		0.82	0.82
PCB-132	38380-05-1	pg/g	213		0.350	0.350	1830		1.200	1.200	62.2		0.75	0.75
PCB-133	35694-04-3	pg/g	17.9		0.340	0.340	77.2		1.100	1.100	4.74		0.74	0.74
PCB-134+PCB-143	PCB134_143	pg/g	23.3		0.380	0.380	148		1.200	1.200	9.72		0.81	0.81
PCB-135+PCB-151	PCB135_151	pg/g	151	M	0.082	0.082	1100	M	0.320	0.320	78.3	M	0.31	0.31
PCB-136	38411-22-2	pg/g	29.9		0.061	0.061	371		0.240	0.240	23.6		0.23	0.23
PCB-137+PCB-164	PCB137_164	pg/g	132	M	0.270	0.270	895	M	0.890	0.890	31.2	M	0.58	0.58
PCB-139+PCB-140	PCB139_140	pg/g	19.2		0.300	0.300	136		1.000	1.000	4.76		0.65	0.65
PCB-141	52712-04-6	pg/g	162		0.310	0.310	1020		1.000	1.000	46.8		0.66	0.66
PCB-142	41411-61-4	pg/g	ND	U	0.370	0.370	ND	U	1.200	1.200	ND	U	0.80	0.80
PCB-144	68194-14-9	pg/g	29.6		0.083	0.083	276		0.320	0.320	14.3		0.31	0.31
PCB-145	74472-40-5	pg/g	ND	U	0.062	0.062	1.9	J	0.240	0.240	ND	U	0.23	0.23
PCB-146	51908-16-8	pg/g	182		0.280	0.280	808		0.930	0.930	43.6		0.61	0.61

Sample Code			1A				1B				1C			
Lab Sample ID			L2756294-1				L2756294-2				L2756294-3			
Analyte	CAS	Units	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL
PCB-147+PCB-149	PCB147_149	pg/g	545		0.300	0.300	3070		1.000	1.000	166		0.65	0.65
PCB-148	74472-41-6	pg/g	1.3	J	0.082	0.082	5.32		0.310	0.310	0.33	J	0.31	0.31
PCB-150	68194-08-1	pg/g	0.801	M,J	0.054	0.054	4.6	M,NJ	0.210	0.210	0.5	J	0.21	0.21
PCB-152	68194-09-2	pg/g	ND	U	0.066	0.066	2.3	J	0.250	0.250	ND	U	0.25	0.25
PCB-153+PCB-168	PCB153_168	pg/g	1100		0.240	0.240	5640		0.800	0.800	256		0.52	0.52
PCB-154	60145-22-4	pg/g	7.22	M	0.066	0.066	50.8	M	0.250	0.250	3	M,NJ	0.25	0.25
PCB-155	33979-03-2	pg/g	4.24		0.034	0.034	4.39		0.180	0.180	4.84		0.17	0.17
PCB-156+PCB-157	PCB156_157	pg/g	138		0.330	0.330	1230		0.990	0.990	31.9		0.67	0.67
PCB-158	74472-42-7	pg/g	121		0.200	0.200	798		0.660	0.660	26.9		0.43	0.43
PCB-159	39635-35-3	pg/g	4.81		0.220	0.220	17	J	0.710	0.710	1.8	M,J	0.46	0.46
PCB-160	41411-62-5	pg/g	20.8	M	0.240	0.240	170	M	0.800	0.800	ND	U	0.52	0.52
PCB-161	74472-43-8	pg/g	ND	U	0.230	0.230	ND	U	0.760	0.760	ND	U	0.49	0.49
PCB-162	39635-34-2	pg/g	5.78		0.230	0.230	29.8		0.760	0.760	1.58	M,J	0.49	0.49
PCB-165	74472-46-1	pg/g	0.82	J	0.260	0.260	2.52		0.850	0.850	ND	U	0.56	0.56
PCB-167	52663-72-6	pg/g	52.5		0.200	0.200	371		0.640	0.640	13.9		0.44	0.44
PCB-169	32774-16-6	pg/g	2.4	J	0.270	0.270	4.9	M,NJ	0.710	0.710	ND	M,U	0.47	0.47

Sample Code			1A				1B				1C			
Lab Sample ID			L2756294-1				L2756294-2				L2756294-3			
Analyte	CAS	Units	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL
PCB-170	35065-30-6	pg/g	147		0.140	0.140	831		0.580	0.580	50.3		0.26	0.26
PCB-171+PCB-173	PCB171_173	pg/g	24.7		0.140	0.140	224		0.590	0.590	15.3		0.26	0.26
PCB-172	52663-74-8	pg/g	35.4		0.130	0.130	134		0.560	0.560	9.6	J	0.25	0.25
PCB-174	38411-25-5	pg/g	109		0.130	0.130	407		0.520	0.520	44.3		0.23	0.23
PCB-175	40186-70-7	pg/g	7.17		0.130	0.130	25.6		0.550	0.550	2.5	J	0.25	0.25
PCB-176	52663-65-7	pg/g	11.4		0.098	0.098	53		0.410	0.410	4.14		0.18	0.18
PCB-177	52663-70-4	pg/g	84.1		0.140	0.140	306		0.570	0.570	27.3		0.26	0.26
PCB-178	52663-67-9	pg/g	37.3		0.140	0.140	94.1		0.600	0.600	12.7		0.27	0.27
PCB-179	52663-64-6	pg/g	26.5		0.099	0.099	96.5		0.410	0.410	13	J	0.18	0.18
PCB-180+PCB-193	PCB180_193	pg/g	419		0.110	0.110	1760	M	0.470	0.470	155		0.21	0.21
PCB-181	74472-47-2	pg/g	2.3	J	0.140	0.140	18.4		0.590	0.590	0.837	J	0.26	0.26
PCB-182	60145-23-5	pg/g	1.9	J	0.130	0.130	6.09		0.530	0.530	ND	U	0.24	0.24
PCB-183	52663-69-1	pg/g	112		0.120	0.120	400		0.520	0.520	37.9		0.23	0.23
PCB-184	74472-48-3	pg/g	7.09		0.095	0.095	8.23		0.400	0.400	5.91		0.18	0.18
PCB-185	52712-05-7	pg/g	11	J	0.140	0.140	49.7		0.590	0.590	5.4	J	0.27	0.27
PCB-186	74472-49-4	pg/g	ND	U	0.100	0.100	ND	U	0.430	0.430	ND	U	0.19	0.19

Sample Code			1A				1B				1C			
Lab Sample ID			L2756294-1				L2756294-2				L2756294-3			
Analyte	CAS	Units	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL
PCB-187	52663-68-0	pg/g	291		0.130	0.130	732		0.530	0.530	86.8		0.24	0.24
PCB-188	74487-85-7	pg/g	0.62	J	0.079	0.079	1.7	J	0.420	0.420	0.262	J	0.18	0.18
PCB-189	39635-31-9	pg/g	8.03		0.120	0.120	40.5		0.200	0.200	2.1	J	0.26	0.26
PCB-190	41411-64-7	pg/g	31.3		0.086	0.086	144		0.360	0.360	11.1		0.16	0.16
PCB-191	74472-50-7	pg/g	6.92		0.098	0.098	33.4	M	0.410	0.410	2.75		0.18	0.18
PCB-192	74472-51-8	pg/g	ND	U	0.110	0.110	ND	U	0.480	0.480	ND	U	0.21	0.21
PCB-194	35694-08-7	pg/g	80.6		0.110	0.110	285		0.240	0.240	28.8		0.28	0.28
PCB-195	52663-78-2	pg/g	21.5		0.110	0.110	79.1		0.250	0.250	8.27		0.30	0.30
PCB-196	42740-50-1	pg/g	40.1		0.099	0.099	110		0.190	0.190	13.2		0.19	0.19
PCB-197	33091-17-7	pg/g	3.78		0.077	0.077	7.75		0.150	0.150	1.87	J	0.15	0.15
PCB-198+PCB-199	PCB198_199	pg/g	107		0.100	0.100	233		0.190	0.190	33.4		0.19	0.19
PCB-200	52663-73-7	pg/g	6.57		0.076	0.076	14.8		0.150	0.150	2.56		0.15	0.15
PCB-201	40186-71-8	pg/g	10		0.072	0.072	20.2		0.140	0.140	2.6	J	0.14	0.14
PCB-202	2136-99-4	pg/g	18.2		0.061	0.061	34.8		0.140	0.140	5.16		0.14	0.14
PCB-203	52663-76-0	pg/g	81.7		0.100	0.100	198		0.190	0.190	25		0.19	0.19
PCB-204	74472-52-9	pg/g	0.379	J	0.072	0.072	0.46	J	0.140	0.140	0.17	J	0.14	0.14

Sample Code			1A				1B				1C			
Lab Sample ID			L2756294-1				L2756294-2				L2756294-3			
Analyte	CAS	Units	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL
PCB-205	74472-53-0	pg/g	4.58		0.120	0.120	12.8		0.200	0.200	1.27	J	0.24	0.24
PCB-206	40186-72-9	pg/g	51.1		0.270	0.270	108		0.300	0.300	11.2		0.39	0.39
PCB-207	52663-79-3	pg/g	8.19		0.200	0.200	11.3		0.180	0.180	1.54	J	0.24	0.24
PCB-208	52663-77-1	pg/g	19.2		0.220	0.220	23.8		0.160	0.160	2.7	M,NJ	0.23	0.23
PCB-209	2051-24-3	pg/g	19.7		0.053	0.053	28.3		0.071	0.071	3.51		0.11	0.11
Total PCBs	1336-36-3	pg/g	12000	J	0.000	0.000	81100	J	0.000	0.000	5040	J	0.00	0.00

Sample Code			1D				2A				2B			
Lab Sample ID			L2756294-4				L2756294-5				L2756294-6			
Analyte	CAS	Units	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL
PCB-001	2051-60-7	pg/g	0.409	U	0.120	0.120	0.2	UJ	0.120	0.120	ND	U	0.330	0.330
PCB-002	2051-61-8	pg/g	0.35	J	0.130	0.130	0.24	J	0.130	0.130	0.53	J	0.360	0.360
PCB-003	2051-62-9	pg/g	0.93	J	0.150	0.150	0.5	UJ	0.150	0.150	ND	U	0.420	0.420
PCB-004	13029-08-8	pg/g	1.4	J	0.950	0.950	ND	M,U	1.100	1.100	ND	U	2.400	2.400
PCB-005	16605-91-7	pg/g	ND	U	0.610	0.610	ND	U	0.640	0.640	ND	U	1.500	1.500
PCB-006	25569-80-6	pg/g	3.2	M,NJ	0.550	0.550	ND	U	0.580	0.580	ND	U	1.400	1.400

Sample Code			1D				2A				2B			
Lab Sample ID			L2756294-4				L2756294-5				L2756294-6			
Analyte	CAS	Units	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL
PCB-007	33284-50-3	pg/g	ND	U	0.570	0.570	ND	U	0.590	0.590	ND	U	1.400	1.400
PCB-008	34883-43-7	pg/g	19.4	M	0.490	0.490	4.68	M	0.510	0.510	2.5	M,NJ	1.200	1.200
PCB-009	34883-39-1	pg/g	2.1	J	0.560	0.560	ND	U	0.580	0.580	ND	U	1.400	1.400
PCB-010	33146-45-1	pg/g	ND	U	0.530	0.530	ND	U	0.550	0.550	ND	U	1.300	1.300
PCB-011	2050-67-1	pg/g	25.7	M	0.670	0.670	26.1	M	0.710	0.710	21.7	M	1.800	1.800
PCB-012+PCB-013	PCB12_13	pg/g	ND	U	0.680	0.680	ND	U	0.720	0.720	ND	U	1.800	1.800
PCB-014	34883-41-5	pg/g	ND	U	0.670	0.670	ND	U	0.710	0.710	ND	U	1.800	1.800
PCB-015	2050-68-2	pg/g	6.21	M	0.730	0.730	2.9	M,NJ	0.720	0.720	ND	U	2.000	2.000
PCB-016	38444-78-9	pg/g	14.9	M	0.390	0.390	6	J	0.270	0.270	1.9	J	1.200	1.200
PCB-017	37680-66-3	pg/g	15		0.330	0.330	5.12	M	0.230	0.230	2.93		0.990	0.990
PCB-018+PCB-030	PCB18_30	pg/g	65.8	M	0.290	0.290	35.6	M	0.200	0.200	4.8	M,NJ	0.860	0.860
PCB-019	38444-73-4	pg/g	2.68	M	0.320	0.320	1.3	J	0.390	0.390	ND	U	0.740	0.740
PCB-020+PCB-028	PCB20_28	pg/g	178		0.760	0.760	144		0.350	0.350	16	J	0.540	0.540
PCB-021+PCB-033	PCB21_33	pg/g	39.3		0.720	0.720	11.8		0.330	0.330	4.2	J	0.510	0.510
PCB-022	38444-85-8	pg/g	44.3		0.820	0.820	33		0.370	0.370	4.28		0.580	0.580
PCB-023	55720-44-0	pg/g	ND	U	0.760	0.760	ND	U	0.350	0.350	ND	U	0.540	0.540

Sample Code			1D				2A				2B			
Lab Sample ID			L2756294-4				L2756294-5				L2756294-6			
Analyte	CAS	Units	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL
PCB-024	55702-45-9	pg/g	0.951	J	0.280	0.280	0.6	J	0.190	0.190	ND	U	0.820	0.820
PCB-025	55712-37-3	pg/g	8.78		0.710	0.710	3.84		0.320	0.320	0.55	J	0.500	0.500
PCB-026+PCB-029	PCB26_29	pg/g	21.5		0.720	0.720	12.5		0.330	0.330	1.99	J	0.510	0.510
PCB-027	38444-76-7	pg/g	3.7	M,NJ	0.240	0.240	2.64	M	0.170	0.170	ND	U	0.720	0.720
PCB-031	16606-02-3	pg/g	121		0.690	0.690	70.4		0.320	0.320	8.58		0.490	0.490
PCB-032	38444-77-8	pg/g	17.3		0.230	0.230	10.2		0.160	0.160	1.75	J	0.670	0.670
PCB-034	37680-68-5	pg/g	ND	U	0.750	0.750	ND	M,U	0.350	0.350	ND	U	0.530	0.530
PCB-035	37680-69-6	pg/g	ND	U	0.850	0.850	ND	U	0.390	0.390	ND	U	0.600	0.600
PCB-036	38444-87-0	pg/g	ND	U	0.690	0.690	ND	U	0.320	0.320	ND	U	0.490	0.490
PCB-037	38444-90-5	pg/g	18.6		0.790	0.790	12.1		0.350	0.350	1.8	J	0.610	0.610
PCB-038	53555-66-1	pg/g	ND	U	0.810	0.810	0.489	J	0.370	0.370	ND	U	0.570	0.570
PCB-039	38444-88-1	pg/g	0.98	J	0.840	0.840	0.58	J	0.380	0.380	ND	U	0.590	0.590
PCB-040+PCB-041+PCB-071	PCB40_41_71	pg/g	55.2		0.200	0.200	51		0.180	0.180	9.3		0.430	0.430
PCB-042	36559-22-5	pg/g	46.1		0.230	0.230	49.9		0.210	0.210	5.48		0.500	0.500
PCB-043	70362-46-8	pg/g	7.29		0.220	0.220	7.29		0.200	0.200	0.736	M,J	0.480	0.480
PCB-044+PCB-047+PCB-065	PCB44_47_65	pg/g	180		0.170	0.170	226		0.160	0.160	26.2		0.380	0.380

Sample Code			1D				2A				2B			
Lab Sample ID			L2756294-4				L2756294-5				L2756294-6			
Analyte	CAS	Units	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL
PCB-045+PCB-051	PCB45_51	pg/g	19.3		0.190	0.190	14.4		0.180	0.180	2.72		0.420	0.420
PCB-046	41464-47-5	pg/g	2.9	J	0.210	0.210	2.18	M,J	0.200	0.200	ND	U	0.470	0.470
PCB-048	70362-47-9	pg/g	24.9		0.200	0.200	21.5		0.180	0.180	4.78		0.430	0.430
PCB-049+PCB-069	PCB49_69	pg/g	128		0.170	0.170	185		0.150	0.150	17.2		0.370	0.370
PCB-050+PCB-053	PCB50_53	pg/g	15.3		0.190	0.190	12.4		0.170	0.170	1.75	J	0.400	0.400
PCB-052	35693-99-3	pg/g	309	M	0.210	0.210	502	M	0.190	0.190	46.3	M	0.450	0.450
PCB-054	15968-05-5	pg/g	0.12	J	0.110	0.110	ND	M,U	0.099	0.099	ND	U	0.260	0.260
PCB-055	74338-24-2	pg/g	2.3	J	0.430	0.430	2.2	J	0.370	0.370	ND	U	0.470	0.470
PCB-056	41464-43-1	pg/g	55.4		0.390	0.390	61.2		0.340	0.340	4.62		0.420	0.420
PCB-057	70424-67-8	pg/g	1.12	J	0.410	0.410	1.15	J	0.360	0.360	ND	U	0.450	0.450
PCB-058	41464-49-7	pg/g	1.08	M,J	0.410	0.410	3.33	M	0.350	0.350	ND	U	0.440	0.440
PCB-059+PCB-062+PCB-075	PCB59_62_75	pg/g	15.2		0.140	0.140	16.4		0.130	0.130	1.64	J	0.310	0.310
PCB-060	33025-41-1	pg/g	53.9		0.420	0.420	69.7		0.360	0.360	3.79		0.450	0.450
PCB-061+PCB-070+PCB-074+PCB-076	PCB61_70_74_76	pg/g	392		0.390	0.390	646		0.340	0.340	31.3		0.430	0.430
PCB-063	74472-34-7	pg/g	9.46		0.390	0.390	13.6		0.340	0.340	0.924	J	0.430	0.430
PCB-064	52663-58-8	pg/g	86		0.150	0.150	118		0.130	0.130	12.1		0.320	0.320

Sample Code			1D				2A				2B			
Lab Sample ID			L2756294-4				L2756294-5				L2756294-6			
Analyte	CAS	Units	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL
PCB-066	32598-10-0	pg/g	184		0.390	0.390	270	M	0.340	0.340	13.9		0.420	0.420
PCB-067	73575-53-8	pg/g	5.49		0.350	0.350	4.83		0.300	0.300	0.461	M,J	0.380	0.380
PCB-068	73575-52-7	pg/g	2.9		0.390	0.390	3.35		0.340	0.340	0.743	J	0.420	0.420
PCB-072	41464-42-0	pg/g	1.64	J	0.400	0.400	2.3	J	0.350	0.350	ND	U	0.440	0.440
PCB-073	74338-23-1	pg/g	1.1	J	0.140	0.140	1.61	M,J	0.130	0.130	0.41	J	0.310	0.310
PCB-077	32598-13-3	pg/g	29.4		0.460	0.460	24		0.380	0.380	2.85		0.490	0.490
PCB-078	70362-49-1	pg/g	ND	U	0.460	0.460	ND	U	0.400	0.400	ND	U	0.500	0.500
PCB-079	41464-48-6	pg/g	4.9	J	0.360	0.360	14.5		0.310	0.310	0.8	J	0.390	0.390
PCB-080	33284-52-5	pg/g	ND	U	0.340	0.340	ND	U	0.290	0.290	ND	U	0.370	0.370
PCB-081	70362-50-4	pg/g	1.3	J	0.450	0.450	0.73	J	0.360	0.360	ND	U	0.460	0.460
PCB-082	52663-62-4	pg/g	41.4		1.200	1.200	117	M	0.600	0.600	8.81	M	1.300	1.300
PCB-083+PCB-099	PCB83_99	pg/g	376	M	0.930	0.930	1740	M	0.480	0.480	68.1		1.000	1.000
PCB-084	52663-60-2	pg/g	65		0.970	0.970	141		0.510	0.510	11.9	M	1.100	1.100
PCB-085+PCB-110+PCB-115+PCB-116+PCB-117	PCBCONGPK301	pg/g	618	M	0.700	0.700	2020	M	0.360	0.360	129	M	0.780	0.780
PCB-086+PCB-087+PCB-097+PCB-109+PCB-119+PCB-125	PCBCONGPK302	pg/g	346	M	0.720	0.720	1290	M	0.380	0.380	57.7	M	0.810	0.810

Sample Code			1D				2A				2B			
Lab Sample ID			L2756294-4				L2756294-5				L2756294-6			
Analyte	CAS	Units	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL
PCB-088+PCB-091	PCB88_91	pg/g	55.3		0.930	0.930	147		0.480	0.480	10		1.000	1.000
PCB-089	73575-57-2	pg/g	1.8	J	1.100	1.100	2.36	J	0.580	0.580	ND	U	1.200	1.200
PCB-090+PCB-101+PCB-113	PCB90_101_113	pg/g	556		0.750	0.750	2130		0.390	0.390	108		0.840	0.840
PCB-092	52663-61-3	pg/g	106		1.000	1.000	326		0.530	0.530	17.4		1.100	1.100
PCB-093+PCB-098+PCB-100+PCB-102	PCBCONGPK303	pg/g	9.76	M	0.860	0.860	14.3	M	0.450	0.450	2.6	M,NJ	0.960	0.960
PCB-094	73575-55-0	pg/g	1	J	0.980	0.980	1.2	J	0.510	0.510	ND	U	1.100	1.100
PCB-095	38379-99-6	pg/g	310	M	1.100	1.100	687	M	0.560	0.560	50.4	M	1.200	1.200
PCB-096	73575-54-9	pg/g	1.54	J	0.270	0.270	1.5	J	0.230	0.230	ND	M,U	0.480	0.480
PCB-103	60145-21-3	pg/g	3.16		0.890	0.890	6.27		0.460	0.460	ND	U	0.990	0.990
PCB-104	56558-16-8	pg/g	ND	U	0.230	0.230	ND	U	0.210	0.210	ND	U	0.450	0.450
PCB-105	32598-14-4	pg/g	197		0.820	0.820	858		0.500	0.500	38.1		0.550	0.550
PCB-106	70424-69-0	pg/g	ND	U	0.860	0.860	ND	U	0.510	0.510	ND	U	0.620	0.620
PCB-107	70424-68-9	pg/g	42.3	M	0.750	0.750	181	M	0.440	0.440	9.01	M	0.530	0.530
PCB-108+PCB-124	PCB108_124	pg/g	17	J	0.790	0.790	72.8		0.470	0.470	3.74		0.560	0.560
PCB-111	39635-32-0	pg/g	ND	U	0.640	0.640	0.73	J	0.330	0.330	ND	U	0.710	0.710
PCB-112	74472-36-9	pg/g	0.7	J	0.630	0.630	1.6	J	0.320	0.320	ND	U	0.700	0.700

Sample Code			1D				2A				2B			
Lab Sample ID			L2756294-4				L2756294-5				L2756294-6			
Analyte	CAS	Units	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL
PCB-114	74472-37-0	pg/g	14	J	0.940	0.940	70.2		0.520	0.520	2.88	M	0.620	0.620
PCB-118	31508-00-6	pg/g	648		0.700	0.700	2910		0.430	0.430	120	M	0.510	0.510
PCB-120	68194-12-7	pg/g	3.1	J	0.620	0.620	6.42		0.320	0.320	ND	U	0.690	0.690
PCB-121	56558-18-0	pg/g	1.4	J	0.650	0.650	1.57	J	0.340	0.340	ND	U	0.720	0.720
PCB-122	76842-07-4	pg/g	4.4	J	1.000	1.000	15.2		0.620	0.620	ND	U	0.750	0.750
PCB-123	65510-44-3	pg/g	7.3	M,NJ	0.860	0.860	29.9	M	0.500	0.500	1.27	M,J	0.590	0.590
PCB-126	57465-28-8	pg/g	7.7	J	0.900	0.900	7.28	M	0.590	0.590	ND	M,U	0.590	0.590
PCB-127	39635-33-1	pg/g	1.1	J	0.800	0.800	6.86	M	0.470	0.470	ND	U	0.570	0.570
PCB-128+PCB-166	PCB128_166	pg/g	123		0.500	0.500	521		0.640	0.640	20.3		0.470	0.470
PCB-129+PCB-138+PCB-163	PCB129_138_163	pg/g	996	M	0.570	0.570	4010	M	0.740	0.740	178	M	0.550	0.550
PCB-130	52663-66-8	pg/g	52.9		0.670	0.670	215		0.860	0.860	9.84		0.640	0.640
PCB-131	61798-70-7	pg/g	7.86		0.720	0.720	31.7		0.930	0.930	1.1	J	0.690	0.690
PCB-132	38380-05-1	pg/g	134		0.660	0.660	479		0.850	0.850	31.3		0.630	0.630
PCB-133	35694-04-3	pg/g	13.3		0.650	0.650	51.3		0.830	0.830	1.7	J	0.610	0.610
PCB-134+PCB-143	PCB134_143	pg/g	23.7		0.710	0.710	90		0.920	0.920	2.9	J	0.680	0.680
PCB-135+PCB-151	PCB135_151	pg/g	191	M	0.230	0.230	441	M	0.280	0.280	37.3	M	0.260	0.260

Sample Code			1D				2A				2B			
Lab Sample ID			L2756294-4				L2756294-5				L2756294-6			
Analyte	CAS	Units	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL
PCB-136	38411-22-2	pg/g	43.9		0.170	0.170	105		0.200	0.200	10.1		0.190	0.190
PCB-137+PCB-164	PCB137_164	pg/g	78.9	M	0.510	0.510	330	M	0.660	0.660	17.2	M	0.480	0.480
PCB-139+PCB-140	PCB139_140	pg/g	13		0.570	0.570	66.3		0.730	0.730	1.8	J	0.540	0.540
PCB-141	52712-04-6	pg/g	115		0.580	0.580	425		0.740	0.740	25.8		0.550	0.550
PCB-142	41411-61-4	pg/g	ND	U	0.710	0.710	ND	U	0.910	0.910	ND	U	0.670	0.670
PCB-144	68194-14-9	pg/g	28.8		0.240	0.240	97.9		0.280	0.280	6.86	M	0.260	0.260
PCB-145	74472-40-5	pg/g	0.194	M,J	0.170	0.170	0.274	M,J	0.210	0.210	ND	U	0.190	0.190
PCB-146	51908-16-8	pg/g	136		0.530	0.530	509		0.690	0.690	23.4		0.510	0.510
PCB-147+PCB-149	PCB147_149	pg/g	430		0.570	0.570	1350		0.740	0.740	77		0.550	0.550
PCB-148	74472-41-6	pg/g	1.41	M,J	0.230	0.230	2.48		0.270	0.270	ND	U	0.260	0.260
PCB-150	68194-08-1	pg/g	1	J	0.150	0.150	1.71	M,J	0.180	0.180	0.258	M,J	0.170	0.170
PCB-152	68194-09-2	pg/g	0.23	J	0.190	0.190	0.594	M,J	0.220	0.220	ND	U	0.210	0.210
PCB-153+PCB-168	PCB153_168	pg/g	802		0.460	0.460	3220		0.590	0.590	146		0.440	0.440
PCB-154	60145-22-4	pg/g	8.6	M,NJ	0.190	0.190	23	M	0.220	0.220	ND	U	0.210	0.210
PCB-155	33979-03-2	pg/g	8.73		0.110	0.110	5.17		0.120	0.120	0.45	J	0.150	0.150
PCB-156+PCB-157	PCB156_157	pg/g	83.7		0.590	0.590	416		0.780	0.780	20		0.550	0.550

Sample Code			1D				2A				2B			
Lab Sample ID			L2756294-4				L2756294-5				L2756294-6			
Analyte	CAS	Units	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL
PCB-158	74472-42-7	pg/g	77.5		0.380	0.380	360		0.490	0.490	14.9		0.360	0.360
PCB-159	39635-35-3	pg/g	3.6	J	0.410	0.410	8.19	M	0.530	0.530	1.05	J	0.390	0.390
PCB-160	41411-62-5	pg/g	11.4	M	0.460	0.460	67.4	M	0.590	0.590	2.88	M	0.440	0.440
PCB-161	74472-43-8	pg/g	ND	U	0.430	0.430	ND	U	0.560	0.560	ND	U	0.410	0.410
PCB-162	39635-34-2	pg/g	3.8	J	0.430	0.430	15.4		0.560	0.560	0.72	J	0.410	0.410
PCB-165	74472-46-1	pg/g	0.911	J	0.490	0.490	1.9	J	0.630	0.630	ND	U	0.460	0.460
PCB-167	52663-72-6	pg/g	37.5		0.390	0.390	162		0.500	0.500	7.46		0.360	0.360
PCB-169	32774-16-6	pg/g	3.2	J	0.450	0.450	8.3	J	0.610	0.610	0.49	J	0.370	0.370
PCB-170	35065-30-6	pg/g	137		0.290	0.290	367		0.250	0.250	32.8	M	0.190	0.190
PCB-171+PCB-173	PCB171_173	pg/g	43.9		0.300	0.300	94.5		0.260	0.260	9.82	M	0.190	0.190
PCB-172	52663-74-8	pg/g	31.1		0.280	0.280	81		0.240	0.240	7.23		0.180	0.180
PCB-174	38411-25-5	pg/g	101		0.270	0.270	186		0.230	0.230	25		0.170	0.170
PCB-175	40186-70-7	pg/g	6.63		0.280	0.280	15.7		0.240	0.240	1.2	J	0.180	0.180
PCB-176	52663-65-7	pg/g	11.9		0.210	0.210	25.2		0.180	0.180	2.59		0.130	0.130
PCB-177	52663-70-4	pg/g	88.2		0.290	0.290	182		0.250	0.250	16		0.190	0.190
PCB-178	52663-67-9	pg/g	41.7		0.300	0.300	87.2		0.260	0.260	5.9	J	0.200	0.200

Sample Code			1D				2A				2B			
Lab Sample ID			L2756294-4				L2756294-5				L2756294-6			
Analyte	CAS	Units	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL
PCB-179	52663-64-6	pg/g	42.7		0.210	0.210	68.3		0.180	0.180	6.27		0.140	0.140
PCB-180+PCB-193	PCB180_193	pg/g	447	M	0.240	0.240	1010		0.210	0.210	98		0.150	0.150
PCB-181	74472-47-2	pg/g	1.6	J	0.300	0.300	6.95		0.260	0.260	0.592	J	0.190	0.190
PCB-182	60145-23-5	pg/g	1.2	J	0.270	0.270	4		0.230	0.230	ND	U	0.170	0.170
PCB-183	52663-69-1	pg/g	106		0.260	0.260	260		0.230	0.230	21.3		0.170	0.170
PCB-184	74472-48-3	pg/g	13.4		0.200	0.200	10.5	M	0.170	0.170	0.92	J	0.130	0.130
PCB-185	52712-05-7	pg/g	16		0.300	0.300	29.9		0.260	0.260	2.8	J	0.190	0.190
PCB-186	74472-49-4	pg/g	ND	U	0.220	0.220	ND	U	0.190	0.190	ND	U	0.140	0.140
PCB-187	52663-68-0	pg/g	402	M	0.270	0.270	695		0.230	0.230	49.3		0.170	0.170
PCB-188	74487-85-7	pg/g	0.871	J	0.190	0.190	1.6	J	0.150	0.150	0.19	J	0.150	0.150
PCB-189	39635-31-9	pg/g	6.46		0.210	0.210	24		0.130	0.130	1.5	M,J	0.130	0.130
PCB-190	41411-64-7	pg/g	31.5		0.180	0.180	73		0.160	0.160	7.35		0.120	0.120
PCB-191	74472-50-7	pg/g	5.3	M,NJ	0.210	0.210	16.8		0.180	0.180	1.5	J	0.130	0.130
PCB-192	74472-51-8	pg/g	ND	U	0.240	0.240	0.294	J	0.210	0.210	ND	U	0.160	0.160
PCB-194	35694-08-7	pg/g	81.9		0.200	0.200	204		0.570	0.570	20.6		0.200	0.200
PCB-195	52663-78-2	pg/g	24.9		0.210	0.210	54.8		0.610	0.610	5.22		0.220	0.220

Sample Code			1D				2A				2B			
Lab Sample ID			L2756294-4				L2756294-5				L2756294-6			
Analyte	CAS	Units	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL
PCB-196	42740-50-1	pg/g	39.4		0.180	0.180	97.6		0.160	0.160	8.59		0.150	0.150
PCB-197	33091-17-7	pg/g	3.64		0.140	0.140	9.04		0.120	0.120	0.929	J	0.120	0.120
PCB-198+PCB-199	PCB198_199	pg/g	121		0.190	0.190	278		0.160	0.160	22.2		0.150	0.150
PCB-200	52663-73-7	pg/g	8.44		0.140	0.140	13.6		0.120	0.120	1.4	J	0.120	0.120
PCB-201	40186-71-8	pg/g	9.14		0.130	0.130	22		0.110	0.110	1.92	J	0.110	0.110
PCB-202	2136-99-4	pg/g	24.1		0.120	0.120	49.7		0.100	0.100	3.18		0.110	0.110
PCB-203	52663-76-0	pg/g	79.7		0.180	0.180	188		0.160	0.160	17.7		0.150	0.150
PCB-204	74472-52-9	pg/g	0.52	J	0.130	0.130	0.64	J	0.120	0.120	ND	U	0.110	0.110
PCB-205	74472-53-0	pg/g	4.43	M	0.180	0.180	9.6	M,NJ	0.570	0.570	1.02	J	0.170	0.170
PCB-206	40186-72-9	pg/g	52		0.270	0.270	144		0.310	0.310	14.2		0.360	0.360
PCB-207	52663-79-3	pg/g	6.96		0.160	0.160	18.4		0.200	0.200	2.12	J	0.230	0.230
PCB-208	52663-77-1	pg/g	17.6		0.150	0.150	51.6		0.200	0.200	4.22		0.220	0.220
PCB-209	2051-24-3	pg/g	24.8		0.091	0.091	63.4		0.075	0.075	6.27		0.067	0.067
Total PCBs	1336-36-3	pg/g	11100	J	0.000	0.000	33000	J	0.000	0.000	1940	J	0.000	0.000

Sample Code			2C				2D				3A			
Lab Sample ID			L2756294-7				L2756294-8				L2756294-9			
Analyte	CAS	Units	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL
PCB-001	2051-60-7	pg/g	0.56	U	0.088	0.088	0.28	UJ	0.130	0.130	0.62	UJ	0.089	0.089
PCB-002	2051-61-8	pg/g	0.47	J	0.088	0.088	0.418	M,J	0.140	0.140	0.34	J	0.096	0.096
PCB-003	2051-62-9	pg/g	0.683	U	0.095	0.095	0.46	UJ	0.160	0.160	0.79	J	0.110	0.110
PCB-004	13029-08-8	pg/g	1.3	J	0.690	0.690	1.6	J	1.000	1.000	6.99		0.740	0.740
PCB-005	16605-91-7	pg/g	ND	U	0.400	0.400	ND	U	0.550	0.550	ND	M,U	0.430	0.430
PCB-006	25569-80-6	pg/g	ND	U	0.370	0.370	ND	U	0.530	0.530	3.9		0.410	0.410
PCB-007	33284-50-3	pg/g	ND	U	0.380	0.380	ND	U	0.530	0.530	ND	U	0.420	0.420
PCB-008	34883-43-7	pg/g	4.2	M,NJ	0.330	0.330	3.85		0.500	0.500	20.6	M	0.390	0.390
PCB-009	34883-39-1	pg/g	ND	U	0.370	0.370	ND	U	0.520	0.520	1.5	J	0.410	0.410
PCB-010	33146-45-1	pg/g	ND	U	0.350	0.350	ND	U	0.500	0.500	ND	U	0.390	0.390
PCB-011	2050-67-1	pg/g	19.4	M,B	0.590	0.590	23.4		0.720	0.720	19.3	B	0.520	0.520
PCB-012+PCB-013	PCB12_13	pg/g	ND	U	0.590	0.590	ND	U	0.720	0.720	ND	U	0.520	0.520
PCB-014	34883-41-5	pg/g	ND	U	0.590	0.590	ND	U	0.730	0.730	ND	U	0.520	0.520
PCB-015	2050-68-2	pg/g	0.93	J	0.590	0.590	ND	U	0.680	0.680	6.23		0.510	0.510
PCB-016	38444-78-9	pg/g	1.53	J	0.230	0.230	6.31		0.310	0.310	16.7		0.210	0.210
PCB-017	37680-66-3	pg/g	4.16		0.190	0.190	7.69		0.260	0.260	21.4		0.180	0.180

Sample Code			2C				2D				3A			
Lab Sample ID			L2756294-7				L2756294-8				L2756294-9			
Analyte	CAS	Units	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL
PCB-018+PCB-030	PCB18_30	pg/g	11.3		0.170	0.170	13.7		0.220	0.220	42.1		0.150	0.150
PCB-019	38444-73-4	pg/g	0.79	J	0.200	0.200	1.1	J	0.330	0.330	4.39		0.220	0.220
PCB-020+PCB-028	PCB20_28	pg/g	52.2		0.220	0.220	85.3		0.360	0.360	165		0.390	0.390
PCB-021+PCB-033	PCB21_33	pg/g	7.88		0.210	0.210	7.7	J	0.350	0.350	28.2		0.380	0.380
PCB-022	38444-85-8	pg/g	10.8		0.240	0.240	16.7		0.400	0.400	30.9		0.430	0.430
PCB-023	55720-44-0	pg/g	ND	U	0.220	0.220	ND	U	0.370	0.370	ND	U	0.400	0.400
PCB-024	55702-45-9	pg/g	0.211	J	0.160	0.160	0.28	J	0.220	0.220	0.54	J	0.150	0.150
PCB-025	55712-37-3	pg/g	2.03	J	0.210	0.210	2.83		0.340	0.340	6	J	0.370	0.370
PCB-026+PCB-029	PCB26_29	pg/g	4.85		0.210	0.210	7.94		0.340	0.340	18.6		0.370	0.370
PCB-027	38444-76-7	pg/g	1.04	J	0.140	0.140	1.27	J	0.190	0.190	2.8		0.130	0.130
PCB-031	16606-02-3	pg/g	30.2		0.200	0.200	44		0.330	0.330	112		0.360	0.360
PCB-032	38444-77-8	pg/g	3.59		0.130	0.130	5.66		0.180	0.180	14.8		0.120	0.120
PCB-034	37680-68-5	pg/g	ND	U	0.220	0.220	ND	U	0.360	0.360	ND	U	0.390	0.390
PCB-035	37680-69-6	pg/g	ND	U	0.250	0.250	ND	U	0.410	0.410	ND	U	0.450	0.450
PCB-036	38444-87-0	pg/g	ND	U	0.200	0.200	ND	U	0.340	0.340	ND	U	0.370	0.370
PCB-037	38444-90-5	pg/g	4.3	M,NJ	0.240	0.240	5.8	J	0.400	0.400	21.4		0.410	0.410

Sample Code			2C				2D				3A			
Lab Sample ID			L2756294-7				L2756294-8				L2756294-9			
Analyte	CAS	Units	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL
PCB-038	53555-66-1	pg/g	ND	U	0.240	0.240	ND	U	0.380	0.380	ND	U	0.410	0.410
PCB-039	38444-88-1	pg/g	ND	M,U	0.250	0.250	ND	U	0.400	0.400	1.06	J	0.440	0.440
PCB-040+PCB-041+PCB-071	PCB40_41_71	pg/g	14.7		0.330	0.330	21.5		0.300	0.300	45.5		0.190	0.190
PCB-042	36559-22-5	pg/g	20.8		0.380	0.380	24	J	0.350	0.350	45.9		0.220	0.220
PCB-043	70362-46-8	pg/g	1.6	J	0.360	0.360	1.7	J	0.360	0.360	3.92		0.220	0.220
PCB-044+PCB-047+PCB-065	PCB44_47_65	pg/g	78.4		0.290	0.290	119		0.270	0.270	205		0.170	0.170
PCB-045+PCB-051	PCB45_51	pg/g	3.92		0.320	0.320	9.13		0.290	0.290	17.9		0.180	0.180
PCB-046	41464-47-5	pg/g	ND	U	0.360	0.360	2.27	J	0.330	0.330	4.87		0.210	0.210
PCB-048	70362-47-9	pg/g	4.05		0.330	0.330	17.1		0.310	0.310	33.1		0.190	0.190
PCB-049+PCB-069	PCB49_69	pg/g	64.5		0.280	0.280	93.6		0.260	0.260	146		0.160	0.160
PCB-050+PCB-053	PCB50_53	pg/g	3.95		0.310	0.310	5.54		0.280	0.280	12.3		0.180	0.180
PCB-052	35693-99-3	pg/g	169		0.340	0.340	242		0.310	0.310	395		0.190	0.190
PCB-054	15968-05-5	pg/g	ND	U	0.087	0.087	0.1	J	0.100	0.100	0.2	J	0.090	0.090
PCB-055	74338-24-2	pg/g	1.07	J	0.240	0.240	ND	U	0.390	0.390	3.5	J	0.360	0.360
PCB-056	41464-43-1	pg/g	13.7		0.220	0.220	25.2		0.360	0.360	47.1		0.330	0.330
PCB-057	70424-67-8	pg/g	0.38	J	0.230	0.230	ND	U	0.380	0.380	0.892	J	0.350	0.350

Sample Code			2C				2D				3A			
Lab Sample ID			L2756294-7				L2756294-8				L2756294-9			
Analyte	CAS	Units	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL
PCB-058	41464-49-7	pg/g	0.757	M,J	0.230	0.230	ND	U	0.360	0.360	ND	U	0.330	0.330
PCB-059+PCB-062+PCB-075	PCB59_62_75	pg/g	6.47		0.240	0.240	8.43		0.220	0.220	14.7		0.130	0.130
PCB-060	33025-41-1	pg/g	19.3		0.230	0.230	31.1		0.380	0.380	52.6		0.350	0.350
PCB-061+PCB-070+PCB-074+PCB-076	PCB61_70_74_76	pg/g	177		0.220	0.220	302		0.360	0.360	443		0.330	0.330
PCB-063	74472-34-7	pg/g	4.12		0.220	0.220	6.71		0.350	0.350	9.27		0.330	0.330
PCB-064	52663-58-8	pg/g	43.3		0.240	0.240	63.2		0.230	0.230	93.7		0.140	0.140
PCB-066	32598-10-0	pg/g	74.8		0.220	0.220	118		0.350	0.350	189		0.320	0.320
PCB-067	73575-53-8	pg/g	1.64	J	0.190	0.190	1.3	J	0.320	0.320	4.18		0.300	0.300
PCB-068	73575-52-7	pg/g	1.65	J	0.220	0.220	2.67		0.360	0.360	4.26		0.330	0.330
PCB-072	41464-42-0	pg/g	0.935	J	0.220	0.220	1.38	J	0.370	0.370	1.65	J	0.340	0.340
PCB-073	74338-23-1	pg/g	0.29	J	0.230	0.230	ND	U	0.220	0.220	ND	U	0.130	0.130
PCB-077	32598-13-3	pg/g	11.1		0.260	0.260	12.3		0.420	0.420	31.1		0.390	0.390
PCB-078	70362-49-1	pg/g	ND	U	0.260	0.260	ND	U	0.420	0.420	ND	U	0.380	0.380
PCB-079	41464-48-6	pg/g	3.14		0.200	0.200	4.54		0.320	0.320	4.8	J	0.300	0.300
PCB-080	33284-52-5	pg/g	ND	U	0.190	0.190	ND	U	0.310	0.310	ND	U	0.290	0.290
PCB-081	70362-50-4	pg/g	0.4	J	0.250	0.250	0.73	J	0.410	0.410	1.1	J	0.380	0.380

Sample Code			2C				2D				3A			
Lab Sample ID			L2756294-7				L2756294-8				L2756294-9			
Analyte	CAS	Units	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL
PCB-082	52663-62-4	pg/g	31.8	M	0.540	0.540	57.4		1.300	1.300	56.9		0.510	0.510
PCB-083+PCB-099	PCB83_99	pg/g	321	M	0.430	0.430	437		1.100	1.100	493		0.420	0.420
PCB-084	52663-60-2	pg/g	26.8		0.450	0.450	64.7		1.100	1.100	74.3		0.420	0.420
PCB-085+PCB-110+PCB-115+PCB-116+PCB-117	PCBCONGPK301	pg/g	541	M	0.320	0.320	946	M	0.760	0.760	879	M	0.300	0.300
PCB-086+PCB-087+PCB-097+PCB-109+PCB-119+PCB-125	PCBCONGPK302	pg/g	260	M	0.330	0.330	448	M	0.790	0.790	416	M	0.310	0.310
PCB-088+PCB-091	PCB88_91	pg/g	40.4		0.430	0.430	73		1.000	1.000	72.3		0.390	0.390
PCB-089	73575-57-2	pg/g	ND	M,U	0.510	0.510	2.38	J	1.200	1.200	2.1	J	0.480	0.480
PCB-090+PCB-101+PCB-113	PCB90_101_113	pg/g	462		0.350	0.350	813		0.820	0.820	767		0.330	0.330
PCB-092	52663-61-3	pg/g	75.9		0.480	0.480	138		1.100	1.100	138		0.450	0.450
PCB-093+PCB-098+PCB-100+PCB-102	PCBCONGPK303	pg/g	3.33	M	0.400	0.400	9.92		0.950	0.950	11	J	0.380	0.380
PCB-094	73575-55-0	pg/g	ND	U	0.460	0.460	ND	U	1.100	1.100	ND	U	0.420	0.420
PCB-095	38379-99-6	pg/g	210	M	0.490	0.490	322		1.100	1.100	364		0.450	0.450
PCB-096	73575-54-9	pg/g	ND	U	0.190	0.190	0.61	J	0.200	0.200	1.85	J	0.200	0.200
PCB-103	60145-21-3	pg/g	1.64	M,J	0.410	0.410	2.43		0.970	0.970	3.52		0.390	0.390
PCB-104	56558-16-8	pg/g	ND	U	0.150	0.150	ND	U	0.170	0.170	0.51	J	0.150	0.150

Sample Code			2C				2D				3A			
Lab Sample ID			L2756294-7				L2756294-8				L2756294-9			
Analyte	CAS	Units	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL
PCB-105	32598-14-4	pg/g	208		0.600	0.600	322		0.520	0.520	288		0.690	0.690
PCB-106	70424-69-0	pg/g	ND	U	0.610	0.610	ND	U	0.560	0.560	ND	U	0.690	0.690
PCB-107	70424-68-9	pg/g	36.6		0.530	0.530	63.4	M	0.490	0.490	54.7		0.610	0.610
PCB-108+PCB-124	PCB108_124	pg/g	16	J	0.560	0.560	30.4		0.520	0.520	28		0.640	0.640
PCB-111	39635-32-0	pg/g	0.32	J	0.290	0.290	ND	U	0.690	0.690	ND	U	0.270	0.270
PCB-112	74472-36-9	pg/g	0.87	J	0.290	0.290	ND	U	0.670	0.670	ND	U	0.270	0.270
PCB-114	74472-37-0	pg/g	14.1		0.650	0.650	26.4		0.580	0.580	20.8		0.750	0.750
PCB-118	31508-00-6	pg/g	576		0.540	0.540	959		0.470	0.470	907		0.620	0.620
PCB-120	68194-12-7	pg/g	1.64	M,J	0.290	0.290	2.89		0.680	0.680	4.4	J	0.270	0.270
PCB-121	56558-18-0	pg/g	0.672	J	0.300	0.300	1.37	J	0.720	0.720	2.48		0.290	0.290
PCB-122	76842-07-4	pg/g	2.8	J	0.740	0.740	8.57		0.650	0.650	8.04		0.810	0.810
PCB-123	65510-44-3	pg/g	8.83		0.620	0.620	13.3	M	0.560	0.560	11		0.690	0.690
PCB-126	57465-28-8	pg/g	2.2	J	0.680	0.680	4.1	M,NJ	0.620	0.620	5.22	M	0.780	0.780
PCB-127	39635-33-1	pg/g	1.49	J	0.570	0.570	2.4	J	0.500	0.500	1.8	J	0.620	0.620
PCB-128+PCB-166	PCB128_166	pg/g	128		0.360	0.360	178		0.440	0.440	132		0.460	0.460
PCB-129+PCB-138+PCB-163	PCB129_138_163	pg/g	930	M	0.420	0.420	1430		0.510	0.510	1100		0.530	0.530

Sample Code			2C				2D				3A			
Lab Sample ID			L2756294-7				L2756294-8				L2756294-9			
Analyte	CAS	Units	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL
PCB-130	52663-66-8	pg/g	52		0.490	0.490	81		0.640	0.640	64		0.660	0.660
PCB-131	61798-70-7	pg/g	5.51		0.530	0.530	7.71		0.670	0.670	6.2	J	0.690	0.690
PCB-132	38380-05-1	pg/g	136		0.480	0.480	231		0.610	0.610	197		0.620	0.620
PCB-133	35694-04-3	pg/g	10.9		0.470	0.470	17.2		0.600	0.600	15.9		0.610	0.610
PCB-134+PCB-143	PCB134_143	pg/g	16		0.520	0.520	24.4		0.670	0.670	21.4		0.700	0.700
PCB-135+PCB-151	PCB135_151	pg/g	112	M	0.140	0.140	208		0.290	0.290	203		0.200	0.200
PCB-136	38411-22-2	pg/g	23		0.110	0.110	41		0.200	0.200	45.7		0.140	0.140
PCB-137+PCB-164	PCB137_164	pg/g	87.7	M	0.370	0.370	136	M	0.450	0.450	104	M	0.470	0.470
PCB-139+PCB-140	PCB139_140	pg/g	12.4		0.420	0.420	20.6		0.530	0.530	18.1		0.540	0.540
PCB-141	52712-04-6	pg/g	105		0.420	0.420	178		0.530	0.530	149		0.550	0.550
PCB-142	41411-61-4	pg/g	ND	U	0.520	0.520	ND	U	0.650	0.650	ND	U	0.670	0.670
PCB-144	68194-14-9	pg/g	21.5		0.150	0.150	34.9		0.270	0.270	31.9		0.180	0.180
PCB-145	74472-40-5	pg/g	ND	U	0.110	0.110	ND	U	0.200	0.200	0.406	J	0.130	0.130
PCB-146	51908-16-8	pg/g	119		0.390	0.390	174		0.470	0.470	147		0.480	0.480
PCB-147+PCB-149	PCB147_149	pg/g	362		0.420	0.420	594		0.530	0.530	ND	M,U	0.550	0.550
PCB-148	74472-41-6	pg/g	0.76	J	0.140	0.140	0.95	J	0.270	0.270	1.92	J	0.180	0.180

Sample Code			2C				2D				3A			
Lab Sample ID			L2756294-7				L2756294-8				L2756294-9			
Analyte	CAS	Units	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL
PCB-150	68194-08-1	pg/g	0.45	J	0.095	0.095	0.91	J	0.190	0.190	1.81	J	0.130	0.130
PCB-152	68194-09-2	pg/g	ND	U	0.120	0.120	ND	U	0.210	0.210	ND	U	0.140	0.140
PCB-153+PCB-168	PCB153_168	pg/g	733		0.330	0.330	1090		0.410	0.410	933		0.430	0.430
PCB-154	60145-22-4	pg/g	4.95	M	0.120	0.120	ND	U	0.200	0.200	ND	U	0.130	0.130
PCB-155	33979-03-2	pg/g	1.7	J	0.062	0.062	3.76		0.120	0.120	12.2		0.074	0.074
PCB-156+PCB-157	PCB156_157	pg/g	89.8		0.450	0.450	144		0.540	0.540	108		0.570	0.570
PCB-158	74472-42-7	pg/g	78		0.280	0.280	122		0.340	0.340	93.7		0.350	0.350
PCB-159	39635-35-3	pg/g	3.32	M	0.300	0.300	5.3	J	0.370	0.370	4.02		0.390	0.390
PCB-160	41411-62-5	pg/g	12.8	M	0.330	0.330	ND	U	0.410	0.410	ND	U	0.420	0.420
PCB-161	74472-43-8	pg/g	ND	U	0.320	0.320	ND	U	0.410	0.410	ND	U	0.420	0.420
PCB-162	39635-34-2	pg/g	3.36	M	0.320	0.320	5.2	J	0.390	0.390	4.26		0.400	0.400
PCB-165	74472-46-1	pg/g	0.657	J	0.360	0.360	0.89	J	0.450	0.450	0.64	J	0.460	0.460
PCB-167	52663-72-6	pg/g	34.8		0.270	0.270	52.8		0.340	0.340	39.5		0.350	0.350
PCB-169	32774-16-6	pg/g	2.7	J	0.360	0.360	2.5	J	0.410	0.410	2.2	J	0.450	0.450
PCB-170	35065-30-6	pg/g	96.2		0.240	0.240	172		0.590	0.590	128		0.200	0.200
PCB-171+PCB-173	PCB171_173	pg/g	18.6		0.240	0.240	40.4		0.610	0.610	29.4		0.200	0.200

Sample Code			2C				2D				3A			
Lab Sample ID			L2756294-7				L2756294-8				L2756294-9			
Analyte	CAS	Units	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL
PCB-172	52663-74-8	pg/g	25.1		0.230	0.230	38.4		0.590	0.590	30.5		0.190	0.190
PCB-174	38411-25-5	pg/g	81.8		0.220	0.220	123		0.560	0.560	112		0.180	0.180
PCB-175	40186-70-7	pg/g	6.11		0.230	0.230	8.84		0.600	0.600	7.97		0.200	0.200
PCB-176	52663-65-7	pg/g	7.82		0.170	0.170	13		0.440	0.440	11.6		0.140	0.140
PCB-177	52663-70-4	pg/g	61.5		0.240	0.240	90.9		0.590	0.590	76.6		0.190	0.190
PCB-178	52663-67-9	pg/g	28.8		0.250	0.250	42.4		0.620	0.620	37.7		0.200	0.200
PCB-179	52663-64-6	pg/g	21.4		0.170	0.170	35.2		0.440	0.440	36.9		0.150	0.150
PCB-180+PCB-193	PCB180_193	pg/g	340		0.190	0.190	475		0.500	0.500	384		0.160	0.160
PCB-181	74472-47-2	pg/g	1.74	J	0.240	0.240	3.06		0.620	0.620	1.87	J	0.200	0.200
PCB-182	60145-23-5	pg/g	1.2	J	0.220	0.220	2.27	J	0.560	0.560	1.78	J	0.180	0.180
PCB-183	52663-69-1	pg/g	85.6		0.210	0.210	122		0.540	0.540	108		0.180	0.180
PCB-184	74472-48-3	pg/g	3	J	0.160	0.160	7.28		0.420	0.420	18.6		0.140	0.140
PCB-185	52712-05-7	pg/g	10.3		0.250	0.250	17		0.650	0.650	15.4		0.210	0.210
PCB-186	74472-49-4	pg/g	ND	U	0.180	0.180	ND	U	0.460	0.460	ND	U	0.150	0.150
PCB-187	52663-68-0	pg/g	241		0.220	0.220	334		0.550	0.550	299		0.180	0.180
PCB-188	74487-85-7	pg/g	0.525	J	0.140	0.140	0.53	J	0.360	0.360	0.608	J	0.120	0.120

Sample Code			2C				2D				3A			
Lab Sample ID			L2756294-7				L2756294-8				L2756294-9			
Analyte	CAS	Units	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL
PCB-189	39635-31-9	pg/g	6.03	M	0.110	0.110	8.11		0.170	0.170	6.01		0.100	0.100
PCB-190	41411-64-7	pg/g	24.5		0.150	0.150	34.4		0.370	0.370	27.7		0.120	0.120
PCB-191	74472-50-7	pg/g	5.3	M,NJ	0.170	0.170	8.14		0.420	0.420	5.82		0.140	0.140
PCB-192	74472-51-8	pg/g	ND	U	0.200	0.200	ND	U	0.500	0.500	ND	U	0.160	0.160
PCB-194	35694-08-7	pg/g	68.2		0.097	0.097	81.1		0.130	0.130	55.2		0.110	0.110
PCB-195	52663-78-2	pg/g	16		0.100	0.100	23.9		0.130	0.130	17.2		0.120	0.120
PCB-196	42740-50-1	pg/g	34		0.088	0.088	43.6		0.110	0.110	30.8		0.190	0.190
PCB-197	33091-17-7	pg/g	3.02		0.068	0.068	3.8	J	0.086	0.086	3.17		0.140	0.140
PCB-198+PCB-199	PCB198_199	pg/g	91.7		0.090	0.090	115		0.110	0.110	85.1		0.190	0.190
PCB-200	52663-73-7	pg/g	6.18		0.068	0.068	6.3	J	0.085	0.085	5.85		0.140	0.140
PCB-201	40186-71-8	pg/g	8.5		0.064	0.064	10.6		0.080	0.080	8.37		0.140	0.140
PCB-202	2136-99-4	pg/g	14.3		0.051	0.051	18.9		0.071	0.071	14.9		0.110	0.110
PCB-203	52663-76-0	pg/g	72.7		0.090	0.090	80.7		0.110	0.110	60.9		0.190	0.190
PCB-204	74472-52-9	pg/g	0.18	J	0.064	0.064	0.32	J	0.080	0.080	0.63	J	0.140	0.140
PCB-205	74472-53-0	pg/g	3.87	M	0.120	0.120	4.53		0.130	0.130	3.35		0.120	0.120
PCB-206	40186-72-9	pg/g	50		0.350	0.350	46.7		0.280	0.280	27.5		0.370	0.370

Sample Code			2C				2D				3A			
Lab Sample ID			L2756294-7				L2756294-8				L2756294-9			
Analyte	CAS	Units	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL
PCB-207	52663-79-3	pg/g	8.48		0.330	0.330	5.79		0.170	0.170	3.8		0.220	0.220
PCB-208	52663-77-1	pg/g	18.5		0.490	0.490	15		0.170	0.170	8.4		0.220	0.220
PCB-209	2051-24-3	pg/g	17.5		0.052	0.052	17.6		0.063	0.063	8.27		0.067	0.067
Total PCBs	1336-36-3	pg/g	8290	J	0.000	0.000	12900	J	0.000	0.000	12100	J	0.000	0.000

Sample Code			3B				3C				3D			
Lab Sample ID			L2756294-10				L2756294-11				L2756294-12			
Analyte	CAS	Units	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL
PCB-001	2051-60-7	pg/g	1.1	J	0.099	0.099	0.15	UJ	0.072	0.072	0.23	UJ	0.077	0.077
PCB-002	2051-61-8	pg/g	0.44	J	0.100	0.100	0.24	J	0.077	0.077	0.4	J	0.078	0.078
PCB-003	2051-62-9	pg/g	0.78	M,J,B	0.110	0.110	0.615	U	0.085	0.085	0.99	M,J,B	0.083	0.083
PCB-004	13029-08-8	pg/g	18		0.580	0.580	ND	U	0.550	0.550	1.3	J	0.620	0.620
PCB-005	16605-91-7	pg/g	0.58	J	0.350	0.350	ND	U	0.330	0.330	ND	U	0.360	0.360
PCB-006	25569-80-6	pg/g	13.1	M	0.340	0.340	1.6	J	0.320	0.320	4.34		0.350	0.350
PCB-007	33284-50-3	pg/g	2.7	J	0.340	0.340	ND	U	0.320	0.320	ND	U	0.350	0.350
PCB-008	34883-43-7	pg/g	61.2	M	0.320	0.320	9.85	M	0.300	0.300	26.3		0.330	0.330

Sample Code			3B				3C				3D			
Lab Sample ID			L2756294-10				L2756294-11				L2756294-12			
Analyte	CAS	Units	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL
PCB-009	34883-39-1	pg/g	4.2	J	0.330	0.330	1.04	J	0.310	0.310	2.1	J	0.350	0.350
PCB-010	33146-45-1	pg/g	0.831	M,J	0.320	0.320	ND	U	0.300	0.300	ND	U	0.330	0.330
PCB-011	2050-67-1	pg/g	6.7	UJ	0.620	0.620	18.1	B	0.450	0.450	29.9		0.360	0.360
PCB-012+PCB-013	PCB12_13	pg/g	ND	U	0.620	0.620	ND	U	0.450	0.450	ND	U	0.360	0.360
PCB-014	34883-41-5	pg/g	ND	U	0.630	0.630	ND	U	0.450	0.450	0.447	J	0.360	0.360
PCB-015	2050-68-2	pg/g	13.8		0.620	0.620	3.3	J	0.450	0.450	8.43		0.360	0.360
PCB-016	38444-78-9	pg/g	31.3		0.260	0.260	7.06		0.240	0.240	15.1		0.180	0.180
PCB-017	37680-66-3	pg/g	35.9		0.220	0.220	6.78		0.210	0.210	10.7		0.160	0.160
PCB-018+PCB-030	PCB18_30	pg/g	75.2		0.190	0.190	32.8		0.180	0.180	58		0.130	0.130
PCB-019	38444-73-4	pg/g	8.66		0.220	0.220	0.8	J	0.170	0.170	2.86		0.160	0.160
PCB-020+PCB-028	PCB20_28	pg/g	127		0.310	0.310	102		0.180	0.180	163		0.260	0.260
PCB-021+PCB-033	PCB21_33	pg/g	59.5		0.300	0.300	19		0.170	0.170	29.9		0.250	0.250
PCB-022	38444-85-8	pg/g	38.4		0.340	0.340	25.7		0.200	0.200	41.6		0.280	0.280
PCB-023	55720-44-0	pg/g	ND	U	0.310	0.310	ND	U	0.180	0.180	ND	U	0.260	0.260
PCB-024	55702-45-9	pg/g	1.3	J	0.190	0.190	0.772	J	0.170	0.170	1.19	J	0.130	0.130
PCB-025	55712-37-3	pg/g	7.22		0.290	0.290	4.28		0.170	0.170	7.56		0.240	0.240

Sample Code			3B				3C				3D			
Lab Sample ID			L2756294-10				L2756294-11				L2756294-12			
Analyte	CAS	Units	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL
PCB-026+PCB-029	PCB26_29	pg/g	17		0.290	0.290	11		0.170	0.170	18.6		0.240	0.240
PCB-027	38444-76-7	pg/g	5.67		0.160	0.160	2.38	J	0.150	0.150	3.83		0.110	0.110
PCB-031	16606-02-3	pg/g	85.6		0.280	0.280	65.1		0.160	0.160	110		0.230	0.230
PCB-032	38444-77-8	pg/g	21.3		0.150	0.150	7.74		0.140	0.140	15		0.110	0.110
PCB-034	37680-68-5	pg/g	0.35	J	0.310	0.310	0.25	J	0.180	0.180	0.486	J	0.260	0.260
PCB-035	37680-69-6	pg/g	ND	U	0.350	0.350	ND	U	0.200	0.200	ND	U	0.290	0.290
PCB-036	38444-87-0	pg/g	ND	U	0.290	0.290	ND	U	0.170	0.170	ND	U	0.240	0.240
PCB-037	38444-90-5	pg/g	26		0.330	0.330	12		0.190	0.190	21.3		0.280	0.280
PCB-038	53555-66-1	pg/g	ND	U	0.320	0.320	ND	U	0.190	0.190	0.41	J	0.270	0.270
PCB-039	38444-88-1	pg/g	0.66	J	0.340	0.340	0.722	J	0.200	0.200	0.998	J	0.280	0.280
PCB-040+PCB-041+PCB-071	PCB40_41_71	pg/g	46.7		0.240	0.240	41.9		0.079	0.079	69.5		0.140	0.140
PCB-042	36559-22-5	pg/g	25.5		0.280	0.280	34.9		0.091	0.091	61		0.160	0.160
PCB-043	70362-46-8	pg/g	4.26		0.290	0.290	5.17		0.094	0.094	8.71		0.160	0.160
PCB-044+PCB-047+PCB-065	PCB44_47_65	pg/g	90.5		0.220	0.220	181		0.070	0.070	304		0.120	0.120
PCB-045+PCB-051	PCB45_51	pg/g	15.5		0.240	0.240	11.3		0.076	0.076	19.3		0.130	0.130
PCB-046	41464-47-5	pg/g	4.1	J	0.270	0.270	2.35	J	0.086	0.086	3.64		0.150	0.150

Sample Code			3B				3C				3D			
Lab Sample ID			L2756294-10				L2756294-11				L2756294-12			
Analyte	CAS	Units	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL
PCB-048	70362-47-9	pg/g	22.6		0.250	0.250	17.6		0.079	0.079	27.9		0.140	0.140
PCB-049+PCB-069	PCB49_69	pg/g	57.8		0.210	0.210	126		0.067	0.067	213		0.120	0.120
PCB-050+PCB-053	PCB50_53	pg/g	12.1		0.230	0.230	11.6		0.074	0.074	20.4		0.130	0.130
PCB-052	35693-99-3	pg/g	143		0.250	0.250	420		0.080	0.080	667		0.140	0.140
PCB-054	15968-05-5	pg/g	0.2	J	0.098	0.098	0.084	J	0.072	0.072	0.21	J	0.048	0.048
PCB-055	74338-24-2	pg/g	2.2	J	0.320	0.320	2.5	J	0.240	0.240	3	J	0.300	0.300
PCB-056	41464-43-1	pg/g	27.4		0.290	0.290	44.2		0.220	0.220	71.1		0.270	0.270
PCB-057	70424-67-8	pg/g	0.41	J	0.310	0.310	0.79	J	0.240	0.240	1.26	J	0.290	0.290
PCB-058	41464-49-7	pg/g	ND	U	0.290	0.290	ND	U	0.220	0.220	ND	U	0.270	0.270
PCB-059+PCB-062+PCB-075	PCB59_62_75	pg/g	8.28		0.180	0.180	10.8		0.057	0.057	18.1		0.098	0.098
PCB-060	33025-41-1	pg/g	22.1		0.310	0.310	41.8		0.240	0.240	63.7		0.290	0.290
PCB-061+PCB-070+PCB-074+PCB-076	PCB61_70_74_76	pg/g	145		0.290	0.290	403		0.220	0.220	658		0.270	0.270
PCB-063	74472-34-7	pg/g	3.29		0.290	0.290	7.9		0.220	0.220	12.6		0.270	0.270
PCB-064	52663-58-8	pg/g	42.3		0.180	0.180	79.9		0.059	0.059	141		0.100	0.100
PCB-066	32598-10-0	pg/g	67.6		0.290	0.290	158		0.220	0.220	246		0.270	0.270
PCB-067	73575-53-8	pg/g	2.37	J	0.260	0.260	3.76		0.200	0.200	6.29		0.250	0.250

Sample Code			3B				3C				3D			
Lab Sample ID			L2756294-10				L2756294-11				L2756294-12			
Analyte	CAS	Units	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL
PCB-068	73575-52-7	pg/g	1	J	0.290	0.290	3.03		0.220	0.220	3	J	0.270	0.270
PCB-072	41464-42-0	pg/g	0.728	J	0.300	0.300	1.7	J	0.230	0.230	3.34		0.280	0.280
PCB-073	74338-23-1	pg/g	ND	U	0.180	0.180	ND	U	0.057	0.057	ND	U	0.098	0.098
PCB-077	32598-13-3	pg/g	16.7		0.330	0.330	20	J	0.260	0.260	30.5		0.330	0.330
PCB-078	70362-49-1	pg/g	ND	U	0.340	0.340	ND	U	0.260	0.260	ND	U	0.320	0.320
PCB-079	41464-48-6	pg/g	1.4	J	0.260	0.260	5.15		0.200	0.200	9.06		0.250	0.250
PCB-080	33284-52-5	pg/g	ND	U	0.250	0.250	ND	U	0.190	0.190	ND	U	0.240	0.240
PCB-081	70362-50-4	pg/g	0.694	J	0.310	0.310	0.87	J	0.250	0.250	1.3	J	0.300	0.300
PCB-082	52663-62-4	pg/g	18.3		0.480	0.480	58		0.400	0.400	87.6		0.430	0.430
PCB-083+PCB-099	PCB83_99	pg/g	113		0.400	0.400	461		0.320	0.320	763		0.360	0.360
PCB-084	52663-60-2	pg/g	29.4		0.400	0.400	97.8		0.320	0.320	152		0.360	0.360
PCB-085+PCB-110+PCB-115+PCB-116+PCB-117	PCBCONGPK301	pg/g	218	M	0.280	0.280	789	M	0.230	0.230	1280	M	0.250	0.250
PCB-086+PCB-087+PCB-097+PCB-109+PCB-119+PCB-125	PCBCONGPK302	pg/g	107	M	0.300	0.300	412	M	0.240	0.240	625	M	0.260	0.260
PCB-088+PCB-091	PCB88_91	pg/g	19.1		0.370	0.370	72.1		0.300	0.300	114		0.330	0.330
PCB-089	73575-57-2	pg/g	1.59	J	0.450	0.450	2.5	J	0.370	0.370	4.19		0.400	0.400

Sample Code			3B				3C				3D			
Lab Sample ID			L2756294-10				L2756294-11				L2756294-12			
Analyte	CAS	Units	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL
PCB-090+PCB-101+PCB-113	PCB90_101_113	pg/g	176		0.310	0.310	728		0.250	0.250	1150		0.270	0.270
PCB-092	52663-61-3	pg/g	34.8		0.420	0.420	137		0.350	0.350	218		0.380	0.380
PCB-093+PCB-098+PCB-100+PCB-102	PCBCONGPK303	pg/g	4	J	0.350	0.350	11.9		0.290	0.290	18.6		0.320	0.320
PCB-094	73575-55-0	pg/g	ND	U	0.390	0.390	1.2	J	0.320	0.320	2	J	0.350	0.350
PCB-095	38379-99-6	pg/g	117		0.420	0.420	445		0.340	0.340	681		0.380	0.380
PCB-096	73575-54-9	pg/g	0.74	J	0.200	0.200	1.5	J	0.160	0.160	3.31		0.130	0.130
PCB-103	60145-21-3	pg/g	1.04	J	0.360	0.360	3.74		0.300	0.300	5.57		0.330	0.330
PCB-104	56558-16-8	pg/g	0.293	M,J	0.180	0.180	ND	U	0.120	0.120	ND	U	0.100	0.100
PCB-105	32598-14-4	pg/g	52.1		0.440	0.440	236		0.500	0.500	396		0.510	0.510
PCB-106	70424-69-0	pg/g	ND	U	0.450	0.450	ND	U	0.510	0.510	ND	U	0.500	0.500
PCB-107	70424-68-9	pg/g	11	M	0.400	0.400	49.7	M	0.450	0.450	89.1		0.440	0.440
PCB-108+PCB-124	PCB108_124	pg/g	5.99		0.420	0.420	22.9		0.470	0.470	41		0.470	0.470
PCB-111	39635-32-0	pg/g	ND	U	0.260	0.260	ND	U	0.210	0.210	0.636	J	0.230	0.230
PCB-112	74472-36-9	pg/g	ND	U	0.250	0.250	ND	U	0.210	0.210	ND	U	0.230	0.230
PCB-114	74472-37-0	pg/g	3.2	M,NJ	0.450	0.450	17.5		0.550	0.550	29.6		0.520	0.520
PCB-118	31508-00-6	pg/g	165		0.410	0.410	756		0.430	0.430	1210		0.450	0.450

Sample Code			3B				3C				3D			
Lab Sample ID			L2756294-10				L2756294-11				L2756294-12			
Analyte	CAS	Units	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL
PCB-120	68194-12-7	pg/g	1.99	J	0.250	0.250	3.1	J	0.210	0.210	6.31	M	0.230	0.230
PCB-121	56558-18-0	pg/g	0.77	J	0.270	0.270	2.28	J	0.220	0.220	1.44	J	0.240	0.240
PCB-122	76842-07-4	pg/g	0.6	J	0.530	0.530	6.39		0.600	0.600	10	J	0.590	0.590
PCB-123	65510-44-3	pg/g	1.6	J	0.440	0.440	7.8	M,NJ	0.520	0.520	19.2		0.520	0.520
PCB-126	57465-28-8	pg/g	1.3	J	0.500	0.500	7.3	M	0.580	0.580	7.5		0.580	0.580
PCB-127	39635-33-1	pg/g	ND	U	0.410	0.410	1.2	J	0.460	0.460	2.7	J	0.450	0.450
PCB-128+PCB-166	PCB128_166	pg/g	25.7		0.240	0.240	147		0.360	0.360	249		0.330	0.330
PCB-129+PCB-138+PCB-163	PCB129_138_163	pg/g	236		0.280	0.280	1210		0.410	0.410	1990		0.370	0.370
PCB-130	52663-66-8	pg/g	14.6		0.350	0.350	63.4		0.510	0.510	122		0.470	0.470
PCB-131	61798-70-7	pg/g	2.57		0.360	0.360	10.7		0.530	0.530	18.2		0.490	0.490
PCB-132	38380-05-1	pg/g	51.5		0.330	0.330	200		0.480	0.480	306		0.440	0.440
PCB-133	35694-04-3	pg/g	3.85		0.320	0.320	15.2		0.480	0.480	30.2		0.440	0.440
PCB-134+PCB-143	PCB134_143	pg/g	8.28		0.370	0.370	34.8		0.540	0.540	52.4		0.490	0.490
PCB-135+PCB-151	PCB135_151	pg/g	63.1		0.250	0.250	304		0.310	0.310	410		0.220	0.220
PCB-136	38411-22-2	pg/g	17		0.180	0.180	61.1		0.220	0.220	91.7		0.150	0.150
PCB-137+PCB-164	PCB137_164	pg/g	24	M	0.250	0.250	90.1	M	0.360	0.360	154	M	0.330	0.330

Sample Code			3B				3C				3D			
Lab Sample ID			L2756294-10				L2756294-11				L2756294-12			
Analyte	CAS	Units	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL
PCB-139+PCB-140	PCB139_140	pg/g	3.85		0.290	0.290	14.9		0.420	0.420	28.6		0.390	0.390
PCB-141	52712-04-6	pg/g	36		0.290	0.290	152		0.430	0.430	245		0.390	0.390
PCB-142	41411-61-4	pg/g	ND	U	0.360	0.360	ND	U	0.520	0.520	ND	U	0.480	0.480
PCB-144	68194-14-9	pg/g	9.07		0.230	0.230	38		0.290	0.290	59		0.200	0.200
PCB-145	74472-40-5	pg/g	ND	U	0.170	0.170	ND	U	0.210	0.210	0.25	J	0.150	0.150
PCB-146	51908-16-8	pg/g	33.1		0.250	0.250	161		0.370	0.370	284		0.340	0.340
PCB-147+PCB-149	PCB147_149	pg/g	129		0.290	0.290	621		0.430	0.430	ND	M,U	0.390	0.390
PCB-148	74472-41-6	pg/g	ND	U	0.230	0.230	1.5	J	0.290	0.290	2.05	J	0.200	0.200
PCB-150	68194-08-1	pg/g	0.4	J	0.170	0.170	1	J	0.210	0.210	1.78	M,J	0.140	0.140
PCB-152	68194-09-2	pg/g	ND	U	0.180	0.180	0.34	J	0.220	0.220	0.767	M,J	0.160	0.160
PCB-153+PCB-168	PCB153_168	pg/g	200		0.220	0.220	1010		0.330	0.330	1610		0.300	0.300
PCB-154	60145-22-4	pg/g	ND	U	0.170	0.170	ND	U	0.210	0.210	ND	U	0.150	0.150
PCB-155	33979-03-2	pg/g	3.4		0.100	0.100	5.94		0.120	0.120	6.22		0.084	0.084
PCB-156+PCB-157	PCB156_157	pg/g	19.9		0.290	0.290	93.1		0.440	0.440	156		0.400	0.400
PCB-158	74472-42-7	pg/g	20.1		0.190	0.190	96		0.270	0.270	145		0.250	0.250
PCB-159	39635-35-3	pg/g	1.2	J	0.200	0.200	5.84		0.300	0.300	7.51		0.270	0.270

Sample Code			3B				3C				3D			
Lab Sample ID			L2756294-10				L2756294-11				L2756294-12			
Analyte	CAS	Units	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL
PCB-160	41411-62-5	pg/g	ND	U	0.220	0.220	ND	U	0.330	0.330	ND	U	0.300	0.300
PCB-161	74472-43-8	pg/g	ND	U	0.220	0.220	ND	U	0.330	0.330	ND	U	0.300	0.300
PCB-162	39635-34-2	pg/g	0.912	J	0.210	0.210	4.61		0.310	0.310	7.64		0.290	0.290
PCB-165	74472-46-1	pg/g	ND	U	0.240	0.240	1.3	J	0.360	0.360	1.6	J	0.330	0.330
PCB-167	52663-72-6	pg/g	8.45		0.180	0.180	38.9		0.270	0.270	67.6		0.250	0.250
PCB-169	32774-16-6	pg/g	0.68	M,J	0.230	0.230	3.7	J	0.350	0.350	4.7	J	0.320	0.320
PCB-170	35065-30-6	pg/g	30.1		0.140	0.140	179		0.210	0.210	247		0.150	0.150
PCB-171+PCB-173	PCB171_173	pg/g	6.14		0.140	0.140	41.4		0.220	0.220	49.3		0.160	0.160
PCB-172	52663-74-8	pg/g	7.24		0.140	0.140	40.8		0.210	0.210	61.6		0.150	0.150
PCB-174	38411-25-5	pg/g	32.1		0.130	0.130	148		0.200	0.200	175		0.140	0.140
PCB-175	40186-70-7	pg/g	2.43		0.140	0.140	9.03		0.210	0.210	15.2		0.150	0.150
PCB-176	52663-65-7	pg/g	4.41		0.100	0.100	19.8		0.160	0.160	24.3		0.110	0.110
PCB-177	52663-70-4	pg/g	21.2		0.140	0.140	133		0.210	0.210	155		0.150	0.150
PCB-178	52663-67-9	pg/g	9.92		0.150	0.150	62		0.220	0.220	64.7		0.160	0.160
PCB-179	52663-64-6	pg/g	12		0.100	0.100	70.8		0.160	0.160	78.1		0.110	0.110
PCB-180+PCB-193	PCB180_193	pg/g	97.1		0.120	0.120	485		0.180	0.180	659		0.130	0.130

Sample Code			3B				3C				3D			
Lab Sample ID			L2756294-10				L2756294-11				L2756294-12			
Analyte	CAS	Units	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL
PCB-181	74472-47-2	pg/g	0.55	J	0.150	0.150	1.8	J	0.220	0.220	3	J	0.160	0.160
PCB-182	60145-23-5	pg/g	ND	U	0.130	0.130	ND	U	0.200	0.200	ND	U	0.140	0.140
PCB-183	52663-69-1	pg/g	27.3		0.130	0.130	152		0.190	0.190	198		0.140	0.140
PCB-184	74472-48-3	pg/g	4.85		0.099	0.099	8.72		0.150	0.150	10.8		0.110	0.110
PCB-185	52712-05-7	pg/g	3.9	J	0.150	0.150	30.8		0.230	0.230	30.8		0.170	0.170
PCB-186	74472-49-4	pg/g	ND	U	0.110	0.110	0.17	J	0.160	0.160	ND	U	0.120	0.120
PCB-187	52663-68-0	pg/g	66.7		0.130	0.130	597		0.200	0.200	628		0.140	0.140
PCB-188	74487-85-7	pg/g	0.091	J	0.081	0.081	0.686	J	0.130	0.130	1.43	J	0.090	0.090
PCB-189	39635-31-9	pg/g	1.4	J	0.100	0.100	9.5		0.110	0.110	12		0.100	0.100
PCB-190	41411-64-7	pg/g	6.81		0.088	0.088	45.8		0.130	0.130	48.8		0.096	0.096
PCB-191	74472-50-7	pg/g	0.92	J	0.100	0.100	7.95		0.150	0.150	11.1		0.110	0.110
PCB-192	74472-51-8	pg/g	ND	U	0.120	0.120	ND	U	0.180	0.180	ND	U	0.130	0.130
PCB-194	35694-08-7	pg/g	15		0.098	0.098	101		0.120	0.120	130		0.190	0.190
PCB-195	52663-78-2	pg/g	4	J	0.100	0.100	38.4		0.130	0.130	43.8		0.200	0.200
PCB-196	42740-50-1	pg/g	7.94		0.110	0.110	56.4		0.140	0.140	81.1		0.160	0.160
PCB-197	33091-17-7	pg/g	1.14	J	0.082	0.082	5.49		0.110	0.110	7.15		0.120	0.120

Sample Code			3B				3C				3D			
Lab Sample ID			L2756294-10				L2756294-11				L2756294-12			
Analyte	CAS	Units	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL
PCB-198+PCB-199	PCB198_199	pg/g	20.4		0.110	0.110	172		0.140	0.140	213		0.160	0.160
PCB-200	52663-73-7	pg/g	1.7	J	0.082	0.082	12		0.110	0.110	13.6		0.120	0.120
PCB-201	40186-71-8	pg/g	2.1	J	0.077	0.077	12.9		0.099	0.099	19.3		0.110	0.110
PCB-202	2136-99-4	pg/g	3.86		0.064	0.064	28.9		0.083	0.083	36.9		0.099	0.099
PCB-203	52663-76-0	pg/g	15	J	0.110	0.110	104		0.140	0.140	134		0.160	0.160
PCB-204	74472-52-9	pg/g	0.11	J	0.077	0.077	0.57	J	0.099	0.099	0.6	J	0.110	0.110
PCB-205	74472-53-0	pg/g	0.8	J	0.110	0.110	6.76		0.130	0.130	7.52		0.200	0.200
PCB-206	40186-72-9	pg/g	8.25		0.280	0.280	62.7		0.330	0.330	82		0.380	0.380
PCB-207	52663-79-3	pg/g	1.32	J	0.200	0.200	7.66		0.210	0.210	11.5		0.250	0.250
PCB-208	52663-77-1	pg/g	3.23		0.230	0.230	19.4		0.200	0.200	28.2		0.260	0.260
PCB-209	2051-24-3	pg/g	2.6		0.110	0.110	23.2		0.082	0.082	33.9		0.064	0.064
Total PCBs	1336-36-3	pg/g	3850	J	0.000	0.000	13400	J	0.000	0.000	19500	J	0.000	0.000

Sample Code			3E				3F				3G			
Lab Sample ID			L2756294-13				L2756294-14				L2756294-15			
Analyte	CAS	Units	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL
PCB-001	2051-60-7	pg/g	0.935	U	0.084	0.084	0.88	UJ	0.16	0.16	0.543	U	0.23	0.23
PCB-002	2051-61-8	pg/g	0.69	J	0.085	0.085	0.72	UJ	0.16	0.16	0.5	UJ	0.25	0.25
PCB-003	2051-62-9	pg/g	1.2	J,B	0.089	0.089	0.9	UJ	0.18	0.18	0.774	U	0.29	0.29
PCB-004	13029-08-8	pg/g	7.25		0.560	0.560	7.5	M,NJ	1.40	1.40	ND	U	1.10	1.10
PCB-005	16605-91-7	pg/g	ND	U	0.330	0.330	ND	U	0.73	0.73	ND	U	0.63	0.63
PCB-006	25569-80-6	pg/g	4.1	M	0.320	0.320	6.1	M,NJ	0.72	0.72	ND	U	0.62	0.62
PCB-007	33284-50-3	pg/g	ND	U	0.320	0.320	1.3	J	0.70	0.70	ND	U	0.60	0.60
PCB-008	34883-43-7	pg/g	20.4	M	0.310	0.310	24.9	M	0.67	0.67	3.4	M,NJ	0.58	0.58
PCB-009	34883-39-1	pg/g	1.6	J	0.320	0.320	ND	U	0.72	0.72	ND	M,U	0.61	0.61
PCB-010	33146-45-1	pg/g	0.4	J	0.300	0.300	ND	U	0.70	0.70	ND	U	0.60	0.60
PCB-011	2050-67-1	pg/g	12	B	0.330	0.330	8.64	U	1.20	1.20	3.6	U	1.10	1.10
PCB-012+PCB-013	PCB12_13	pg/g	ND	U	0.320	0.320	ND	U	1.20	1.20	ND	U	1.10	1.10
PCB-014	34883-41-5	pg/g	ND	U	0.330	0.330	ND	U	1.20	1.20	ND	U	1.00	1.00
PCB-015	2050-68-2	pg/g	5.39		0.330	0.330	6	M,NJ	1.20	1.20	ND	M,U	1.10	1.10
PCB-016	38444-78-9	pg/g	20.3		0.260	0.260	17.3		0.49	0.49	1.7	J	0.51	0.51
PCB-017	37680-66-3	pg/g	23.3		0.220	0.220	21.5		0.41	0.41	2.7	M,NJ	0.44	0.44

Sample Code			3E				3F				3G			
Lab Sample ID			L2756294-13				L2756294-14				L2756294-15			
Analyte	CAS	Units	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL
PCB-018+PCB-030	PCB18_30	pg/g	45.9		0.190	0.190	46.8		0.36	0.36	6.62	M	0.38	0.38
PCB-019	38444-73-4	pg/g	5.1		0.200	0.200	4.5	M,NJ	0.42	0.42	1.1	J	0.33	0.33
PCB-020+PCB-028	PCB20_28	pg/g	153		0.230	0.230	123		2.20	2.20	51.2		0.32	0.32
PCB-021+PCB-033	PCB21_33	pg/g	30.4		0.220	0.220	33.8		0.48	0.48	1.68	J,B	0.31	0.31
PCB-022	38444-85-8	pg/g	34.8		0.260	0.260	21.8		0.53	0.53	5.12		0.35	0.35
PCB-023	55720-44-0	pg/g	ND	U	0.240	0.240	ND	U	0.49	0.49	ND	U	0.32	0.32
PCB-024	55702-45-9	pg/g	0.95	J	0.180	0.180	0.664	J	0.33	0.33	ND	U	0.35	0.35
PCB-025	55712-37-3	pg/g	6.63		0.220	0.220	4.17	M	0.47	0.47	0.774	M,J	0.31	0.31
PCB-026+PCB-029	PCB26_29	pg/g	19.7		0.220	0.220	11.7		0.47	0.47	2.29	J	0.31	0.31
PCB-027	38444-76-7	pg/g	3.48		0.160	0.160	3.2	J	0.31	0.31	ND	U	0.33	0.33
PCB-031	16606-02-3	pg/g	113		0.210	0.210	60.5		0.45	0.45	14.8		0.30	0.30
PCB-032	38444-77-8	pg/g	16.4		0.150	0.150	11.4		0.28	0.28	1.74	J	0.30	0.30
PCB-034	37680-68-5	pg/g	0.489	J	0.230	0.230	ND	U	0.51	0.51	ND	U	0.34	0.34
PCB-035	37680-69-6	pg/g	ND	U	0.270	0.270	ND	U	0.52	0.52	ND	U	0.34	0.34
PCB-036	38444-87-0	pg/g	ND	U	0.220	0.220	ND	U	0.45	0.45	1.4	J	0.29	0.29
PCB-037	38444-90-5	pg/g	20.2		0.250	0.250	14.7		0.52	0.52	0.675	J	0.35	0.35

Sample Code			3E				3F				3G			
Lab Sample ID			L2756294-13				L2756294-14				L2756294-15			
Analyte	CAS	Units	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL
PCB-038	53555-66-1	pg/g	0.257	J	0.240	0.240	ND	U	0.52	0.52	ND	U	0.34	0.34
PCB-039	38444-88-1	pg/g	1.11	J	0.260	0.260	ND	U	0.53	0.53	ND	U	0.35	0.35
PCB-040+PCB-041+PCB-071	PCB40_41_71	pg/g	54.4		0.110	0.110	41.4		0.28	0.28	4.19		0.44	0.44
PCB-042	36559-22-5	pg/g	51.6		0.130	0.130	28.2		0.32	0.32	12.8		0.51	0.51
PCB-043	70362-46-8	pg/g	3.49		0.130	0.130	4.81		0.31	0.31	2.3	J	0.48	0.48
PCB-044+PCB-047+PCB-065	PCB44_47_65	pg/g	239		0.098	0.098	142		0.25	0.25	64.3		0.39	0.39
PCB-045+PCB-051	PCB45_51	pg/g	18.9		0.110	0.110	12.5		0.29	0.29	2.56		0.44	0.44
PCB-046	41464-47-5	pg/g	5.29		0.120	0.120	3.77		0.31	0.31	0.52	J	0.49	0.49
PCB-048	70362-47-9	pg/g	37.7		0.110	0.110	21.5		0.29	0.29	4.51		0.45	0.45
PCB-049+PCB-069	PCB49_69	pg/g	165		0.094	0.094	85		0.24	0.24	69.7		0.37	0.37
PCB-050+PCB-053	PCB50_53	pg/g	13.7		0.100	0.100	13.3		0.28	0.28	0.93	J	0.43	0.43
PCB-052	35693-99-3	pg/g	475		0.110	0.110	338	M	0.31	0.31	151	M	0.49	0.49
PCB-054	15968-05-5	pg/g	0.24	J	0.082	0.082	0.2	J	0.12	0.12	ND	U	0.13	0.13
PCB-055	74338-24-2	pg/g	3.33		0.290	0.290	ND	U	2.80	2.80	ND	U	0.38	0.38
PCB-056	41464-43-1	pg/g	58.1		0.260	0.260	26.5		2.70	2.70	2.3	J	0.34	0.34
PCB-057	70424-67-8	pg/g	1.1	J	0.280	0.280	ND	U	2.80	2.80	ND	U	0.37	0.37

Sample Code			3E				3F				3G			
Lab Sample ID			L2756294-13				L2756294-14				L2756294-15			
Analyte	CAS	Units	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL
PCB-058	41464-49-7	pg/g	ND	U	0.270	0.270	ND	U	2.90	2.90	0.426	M,J	0.35	0.35
PCB-059+PCB-062+PCB-075	PCB59_62_75	pg/g	15.7		0.080	0.080	8.7		0.21	0.21	4.98		0.32	0.32
PCB-060	33025-41-1	pg/g	61.9		0.280	0.280	12	J	2.80	2.80	32		0.37	0.37
PCB-061+PCB-070+PCB-074+PCB-076	PCB61_70_74_76	pg/g	545		0.260	0.260	252		2.70	2.70	116		0.35	0.35
PCB-063	74472-34-7	pg/g	10.6		0.260	0.260	ND	U	2.60	2.60	4.8		0.35	0.35
PCB-064	52663-58-8	pg/g	109		0.083	0.083	55.9		0.22	0.22	29.5		0.34	0.34
PCB-066	32598-10-0	pg/g	217		0.260	0.260	113		2.60	2.60	121		0.34	0.34
PCB-067	73575-53-8	pg/g	4.64		0.240	0.240	ND	U	2.30	2.30	0.64	J	0.31	0.31
PCB-068	73575-52-7	pg/g	3.67		0.260	0.260	ND	U	2.50	2.50	1.3	J	0.35	0.35
PCB-072	41464-42-0	pg/g	2.21	J	0.270	0.270	ND	U	2.60	2.60	0.67	J	0.36	0.36
PCB-073	74338-23-1	pg/g	ND	U	0.080	0.080	2	J	0.20	0.20	0.66	J	0.31	0.31
PCB-077	32598-13-3	pg/g	28.4		0.350	0.350	12	M,NJ	0.48	0.48	3.4	M,NJ	0.41	0.41
PCB-078	70362-49-1	pg/g	ND	U	0.310	0.310	ND	U	3.10	3.10	ND	U	0.39	0.39
PCB-079	41464-48-6	pg/g	6.44		0.240	0.240	ND	U	2.60	2.60	1.2	J	0.32	0.32
PCB-080	33284-52-5	pg/g	ND	U	0.230	0.230	ND	U	2.20	2.20	ND	U	0.28	0.28
PCB-081	70362-50-4	pg/g	1.3	J	0.300	0.300	ND	U	0.45	0.45	0.701	J	0.37	0.37

Sample Code			3E				3F				3G			
Lab Sample ID			L2756294-13				L2756294-14				L2756294-15			
Analyte	CAS	Units	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL
PCB-082	52663-62-4	pg/g	73.5		0.660	0.660	33.9		4.70	4.70	7.5	M,NJ	0.92	0.92
PCB-083+PCB-099	PCB83_99	pg/g	376		0.540	0.540	234		3.80	3.80	338	M	0.77	0.77
PCB-084	52663-60-2	pg/g	95.9		0.540	0.540	72.1		3.60	3.60	14		0.78	0.78
PCB-085+PCB-110+PCB-115+PCB-116+PCB-117	PCBCONGPK301	pg/g	1040	M	0.390	0.390	419	M	2.80	2.80	252	M	0.56	0.56
PCB-086+PCB-087+PCB-097+PCB-109+PCB-119+PCB-125	PCBCONGPK302	pg/g	477	M	0.400	0.400	204	M	2.90	2.90	110	M	0.58	0.58
PCB-088+PCB-091	PCB88_91	pg/g	90.1		0.510	0.510	42.4		3.60	3.60	34		0.76	0.76
PCB-089	73575-57-2	pg/g	3.32		0.610	0.610	ND	U	4.30	4.30	ND	U	0.90	0.90
PCB-090+PCB-101+PCB-113	PCB90_101_113	pg/g	853		0.420	0.420	362		3.00	3.00	333		0.60	0.60
PCB-092	52663-61-3	pg/g	155		0.570	0.570	69	J	4.00	4.00	93.2		0.83	0.83
PCB-093+PCB-098+PCB-100+PCB-102	PCBCONGPK303	pg/g	14.1		0.480	0.480	10.3	M,J	3.20	3.20	3.39	M	0.68	0.68
PCB-094	73575-55-0	pg/g	1.13	J	0.540	0.540	ND	U	3.60	3.60	ND	U	0.78	0.78
PCB-095	38379-99-6	pg/g	482		0.570	0.570	348		5.20	5.20	107	M	0.94	0.94
PCB-096	73575-54-9	pg/g	2	J	0.210	0.210	ND	M,U	1.70	1.70	ND	M,U	0.20	0.20
PCB-103	60145-21-3	pg/g	3.8	J	0.490	0.490	ND	U	3.40	3.40	1.87	J	0.72	0.72
PCB-104	56558-16-8	pg/g	ND	U	0.150	0.150	ND	U	0.91	0.91	ND	U	0.15	0.15

Sample Code			3E				3F				3G			
Lab Sample ID			L2756294-13				L2756294-14				L2756294-15			
Analyte	CAS	Units	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL
PCB-105	32598-14-4	pg/g	306		0.610	0.610	104		3.10	3.10	184		2.90	2.90
PCB-106	70424-69-0	pg/g	ND	U	0.610	0.610	ND	U	2.60	2.60	ND	U	2.50	2.50
PCB-107	70424-68-9	pg/g	66.7		0.540	0.540	19.3	M	2.20	2.20	14	J	2.10	2.10
PCB-108+PCB-124	PCB108_124	pg/g	30.7		0.570	0.570	12.8	J	2.40	2.40	6.3	J	2.30	2.30
PCB-111	39635-32-0	pg/g	ND	U	0.350	0.350	ND	U	2.50	2.50	ND	U	0.50	0.50
PCB-112	74472-36-9	pg/g	ND	U	0.340	0.340	ND	U	2.40	2.40	ND	M,U	0.49	0.49
PCB-114	74472-37-0	pg/g	21.7		0.650	0.650	9.5	J	3.30	3.30	14.2	J	2.90	2.90
PCB-118	31508-00-6	pg/g	932		0.610	0.610	294	M	2.10	2.10	531	M	2.20	2.20
PCB-120	68194-12-7	pg/g	4.29	M	0.350	0.350	ND	U	2.50	2.50	1.6	J	0.48	0.48
PCB-121	56558-18-0	pg/g	1.86	J	0.370	0.370	ND	U	2.50	2.50	ND	U	0.51	0.51
PCB-122	76842-07-4	pg/g	9.2		0.720	0.720	ND	U	3.20	3.20	ND	U	3.10	3.10
PCB-123	65510-44-3	pg/g	11.4		0.600	0.600	4.4	J	3.30	3.30	9.69	J	3.00	3.00
PCB-126	57465-28-8	pg/g	4.88		0.740	0.740	1.6	J	0.62	0.62	3.1	J	0.62	0.62
PCB-127	39635-33-1	pg/g	2.2	J	0.560	0.560	ND	U	2.60	2.60	ND	U	2.50	2.50
PCB-128+PCB-166	PCB128_166	pg/g	145		0.340	0.340	44.2		1.70	1.70	91.3		2.00	2.00
PCB-129+PCB-138+PCB-163	PCB129_138_163	pg/g	1240		0.390	0.390	417		1.90	1.90	571		2.20	2.20

Sample Code			3E				3F				3G			
Lab Sample ID			L2756294-13				L2756294-14				L2756294-15			
Analyte	CAS	Units	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL
PCB-130	52663-66-8	pg/g	74.9		0.490	0.490	25.3		2.30	2.30	13	J	2.70	2.70
PCB-131	61798-70-7	pg/g	9.12		0.510	0.510	4.8	J	2.50	2.50	ND	U	2.90	2.90
PCB-132	38380-05-1	pg/g	248		0.460	0.460	91.5		2.20	2.20	41.7		2.60	2.60
PCB-133	35694-04-3	pg/g	16.4		0.460	0.460	7.6	J	2.10	2.10	7.1	J	2.50	2.50
PCB-134+PCB-143	PCB134_143	pg/g	30.5		0.520	0.520	17.3		2.40	2.40	11.3	J	2.70	2.70
PCB-135+PCB-151	PCB135_151	pg/g	233		0.210	0.210	99.5	M	1.80	1.80	95.4	M	1.70	1.70
PCB-136	38411-22-2	pg/g	49.3		0.150	0.150	29.3		1.40	1.40	6.4	J	1.30	1.30
PCB-137+PCB-164	PCB137_164	pg/g	122	M	0.350	0.350	38	M,NJ	1.70	1.70	58.5	M	1.90	1.90
PCB-139+PCB-140	PCB139_140	pg/g	19.6		0.400	0.400	9.08	J	1.80	1.80	6.8	J	2.10	2.10
PCB-141	52712-04-6	pg/g	181		0.410	0.410	60.3		1.80	1.80	99		2.10	2.10
PCB-142	41411-61-4	pg/g	ND	U	0.500	0.500	ND	U	2.30	2.30	ND	U	2.70	2.70
PCB-144	68194-14-9	pg/g	38.2		0.200	0.200	14.4	J	1.90	1.90	15.1	J	1.80	1.80
PCB-145	74472-40-5	pg/g	0.22	J	0.150	0.150	ND	U	1.30	1.30	ND	U	1.20	1.20
PCB-146	51908-16-8	pg/g	147		0.360	0.360	49.8		1.70	1.70	92.2		2.00	2.00
PCB-147+PCB-149	PCB147_149	pg/g	ND	M,U	0.410	0.410	237		1.90	1.90	202		2.20	2.20
PCB-148	74472-41-6	pg/g	1.61	J	0.200	0.200	ND	U	1.80	1.80	ND	U	1.70	1.70

Sample Code			3E				3F				3G			
Lab Sample ID			L2756294-13				L2756294-14				L2756294-15			
Analyte	CAS	Units	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL
PCB-150	68194-08-1	pg/g	1	J	0.140	0.140	ND	U	1.20	1.20	ND	U	1.20	1.20
PCB-152	68194-09-2	pg/g	0.27	J	0.150	0.150	ND	U	1.40	1.40	ND	U	1.30	1.30
PCB-153+PCB-168	PCB153_168	pg/g	983		0.320	0.320	319		1.50	1.50	579		1.80	1.80
PCB-154	60145-22-4	pg/g	ND	U	0.150	0.150	ND	U	1.60	1.60	7.1	J	1.50	1.50
PCB-155	33979-03-2	pg/g	7.51		0.077	0.077	2.23	J	0.63	0.63	3	J	0.57	0.57
PCB-156+PCB-157	PCB156_157	pg/g	113		0.430	0.430	24	J	2.20	2.20	69	J	2.80	2.80
PCB-158	74472-42-7	pg/g	103		0.260	0.260	36.5		1.30	1.30	57.9		1.50	1.50
PCB-159	39635-35-3	pg/g	5.3		0.290	0.290	ND	U	1.40	1.40	2.89	J	1.70	1.70
PCB-160	41411-62-5	pg/g	ND	U	0.310	0.310	ND	U	1.60	1.60	ND	U	1.90	1.90
PCB-161	74472-43-8	pg/g	ND	U	0.310	0.310	ND	U	1.40	1.40	ND	U	1.70	1.70
PCB-162	39635-34-2	pg/g	5.12		0.300	0.300	1.8	J	1.50	1.50	3.01	J	1.80	1.80
PCB-165	74472-46-1	pg/g	1.05	J	0.340	0.340	ND	U	1.60	1.60	ND	U	1.90	1.90
PCB-167	52663-72-6	pg/g	43.4		0.270	0.270	14.8	J	1.40	1.40	26.7		1.60	1.60
PCB-169	32774-16-6	pg/g	2.89	M	0.330	0.330	0.78	J	0.45	0.45	1.6	J	0.33	0.33
PCB-170	35065-30-6	pg/g	142		0.240	0.240	52		2.50	2.50	101		2.60	2.60
PCB-171+PCB-173	PCB171_173	pg/g	21.1		0.250	0.250	16	J	2.40	2.40	29	J	2.40	2.40

Sample Code			3E				3F				3G			
Lab Sample ID			L2756294-13				L2756294-14				L2756294-15			
Analyte	CAS	Units	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL
PCB-172	52663-74-8	pg/g	32.8		0.240	0.240	11.7	J	2.40	2.40	21.9		2.40	2.40
PCB-174	38411-25-5	pg/g	132		0.230	0.230	46.1		2.10	2.10	77.1		2.10	2.10
PCB-175	40186-70-7	pg/g	7.98		0.240	0.240	ND	U	2.20	2.20	4.9	J	2.30	2.30
PCB-176	52663-65-7	pg/g	14.1		0.180	0.180	5.11	J	1.60	1.60	5.1	J	1.60	1.60
PCB-177	52663-70-4	pg/g	86.7		0.240	0.240	26	J	2.30	2.30	24.7		2.30	2.30
PCB-178	52663-67-9	pg/g	39.8		0.250	0.250	15	J	2.30	2.30	26.8		2.30	2.30
PCB-179	52663-64-6	pg/g	42.4		0.180	0.180	17	J	1.60	1.60	19.6		1.60	1.60
PCB-180+PCB-193	PCB180_193	pg/g	326		0.200	0.200	160		1.90	1.90	318		2.00	2.00
PCB-181	74472-47-2	pg/g	1.94	J	0.250	0.250	ND	U	2.30	2.30	ND	U	2.40	2.40
PCB-182	60145-23-5	pg/g	1.4	J	0.230	0.230	ND	U	2.00	2.00	ND	U	2.00	2.00
PCB-183	52663-69-1	pg/g	114		0.220	0.220	43.6		2.00	2.00	73.4		2.10	2.10
PCB-184	74472-48-3	pg/g	11.4		0.170	0.170	3.09	J	1.50	1.50	4.1	J	1.50	1.50
PCB-185	52712-05-7	pg/g	18.3		0.260	0.260	5.51	J	2.30	2.30	11	J	2.40	2.40
PCB-186	74472-49-4	pg/g	ND	U	0.190	0.190	ND	U	1.70	1.70	ND	U	1.70	1.70
PCB-187	52663-68-0	pg/g	274		0.220	0.220	98.8		2.10	2.10	204		2.10	2.10
PCB-188	74487-85-7	pg/g	0.52	J	0.140	0.140	ND	U	1.30	1.30	ND	U	1.30	1.30

Sample Code			3E				3F				3G			
Lab Sample ID			L2756294-13				L2756294-14				L2756294-15			
Analyte	CAS	Units	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL
PCB-189	39635-31-9	pg/g	7.32		0.087	0.087	1.1	J	0.79	0.79	3.3	J	1.20	1.20
PCB-190	41411-64-7	pg/g	29.1		0.150	0.150	10	J	1.70	1.70	25.8		1.70	1.70
PCB-191	74472-50-7	pg/g	5.91		0.170	0.170	2.2	J	1.70	1.70	6.58	J	1.80	1.80
PCB-192	74472-51-8	pg/g	ND	U	0.200	0.200	ND	U	2.00	2.00	ND	U	2.00	2.00
PCB-194	35694-08-7	pg/g	60.7		0.089	0.089	24.4		1.10	1.10	48.9		0.71	0.71
PCB-195	52663-78-2	pg/g	18.6		0.095	0.095	8.56	J	1.10	1.10	15.7	J	0.74	0.74
PCB-196	42740-50-1	pg/g	31.7		0.160	0.160	11	J	0.93	0.93	25.1		0.86	0.86
PCB-197	33091-17-7	pg/g	2.1	J	0.120	0.120	0.79	J	0.65	0.65	3.3	J	0.60	0.60
PCB-198+PCB-199	PCB198_199	pg/g	82.8		0.160	0.160	35		0.95	0.95	76.8		0.88	0.88
PCB-200	52663-73-7	pg/g	5.82		0.120	0.120	2.8	J	0.66	0.66	3.4	J	0.61	0.61
PCB-201	40186-71-8	pg/g	7.48		0.120	0.120	2.1	J	0.60	0.60	7.57	J	0.56	0.56
PCB-202	2136-99-4	pg/g	14.3		0.100	0.100	4.1	J	0.53	0.53	7.6	J	0.49	0.49
PCB-203	52663-76-0	pg/g	62.3		0.160	0.160	24.1		0.87	0.87	49.9		0.81	0.81
PCB-204	74472-52-9	pg/g	0.331	J	0.110	0.110	ND	U	0.62	0.62	ND	U	0.57	0.57
PCB-205	74472-53-0	pg/g	3.66		0.094	0.094	1.1	J	0.93	0.93	2.2	J	0.64	0.64
PCB-206	40186-72-9	pg/g	26.5		0.330	0.330	8	J	1.50	1.50	21.3		1.20	1.20

Sample Code			3E				3F				3G			
Lab Sample ID			L2756294-13				L2756294-14				L2756294-15			
Analyte	CAS	Units	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL
PCB-207	52663-79-3	pg/g	3	J	0.230	0.230	1	J	0.89	0.89	2.6	J	0.68	0.68
PCB-208	52663-77-1	pg/g	6.7	J	0.250	0.250	2.91	J	0.85	0.85	7.4	J	0.62	0.62
PCB-209	2051-24-3	pg/g	7.42		0.066	0.066	2.2	J	0.40	0.40	8.43	J	0.45	0.45
Total PCBs	1336-36-3	pg/g	13200	J	0.000	0.000	6030	J	0.00	0.00	6090	J	0.00	0.00

Sample Code			3H				4A				4B			
Lab Sample ID			L2756294-16				L2756294-17				L2756294-18			
Analyte	CAS	Units	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL
PCB-001	2051-60-7	pg/g	1.1	U	0.15	0.15	0.812	U	0.24	0.24	0.27	UJ	0.14	0.14
PCB-002	2051-61-8	pg/g	1.2	U	0.16	0.16	0.83	UJ	0.24	0.24	0.66	UJ	0.14	0.14
PCB-003	2051-62-9	pg/g	1.11	U	0.20	0.20	0.85	UJ	0.28	0.28	0.787	U	0.16	0.16
PCB-004	13029-08-8	pg/g	5.4	M,NJ	1.10	1.10	5.68	M	2.00	2.00	ND	U	1.00	1.00
PCB-005	16605-91-7	pg/g	ND	U	0.73	0.73	ND	U	1.20	1.20	ND	U	0.58	0.58
PCB-006	25569-80-6	pg/g	2.77	M	0.71	0.71	6.5	M,NJ	1.20	1.20	1.1	J	0.57	0.57
PCB-007	33284-50-3	pg/g	ND	U	0.70	0.70	ND	U	1.20	1.20	ND	U	0.56	0.56
PCB-008	34883-43-7	pg/g	11.8	M	0.66	0.66	31.8	M	1.10	1.10	4.48	M	0.53	0.53

Sample Code			3H				4A				4B			
Lab Sample ID			L2756294-16				L2756294-17				L2756294-18			
Analyte	CAS	Units	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL
PCB-009	34883-39-1	pg/g	1.3	J	0.71	0.71	ND	U	1.20	1.20	ND	U	0.57	0.57
PCB-010	33146-45-1	pg/g	ND	M,U	0.69	0.69	ND	U	1.20	1.20	ND	U	0.55	0.55
PCB-011	2050-67-1	pg/g	6.05	U	1.20	1.20	9.5	M,NJ	1.90	1.90	28.1	M	1.10	1.10
PCB-012+PCB-013	PCB12_13	pg/g	ND	U	1.10	1.10	ND	U	1.90	1.90	ND	U	1.00	1.00
PCB-014	34883-41-5	pg/g	ND	U	1.10	1.10	ND	U	1.90	1.90	ND	U	1.00	1.00
PCB-015	2050-68-2	pg/g	ND	U	1.30	1.30	ND	U	2.10	2.10	3.4	M,NJ	1.10	1.10
PCB-016	38444-78-9	pg/g	9.65		0.49	0.49	12.8		0.87	0.87	5.3	J	0.44	0.44
PCB-017	37680-66-3	pg/g	13.1		0.42	0.42	34.8		0.74	0.74	6.97		0.38	0.38
PCB-018+PCB-030	PCB18_30	pg/g	29.3	M	0.36	0.36	72.3	M	0.64	0.64	33		0.32	0.32
PCB-019	38444-73-4	pg/g	2.4	J	0.38	0.38	4.73	M	0.60	0.60	0.953	M,J	0.36	0.36
PCB-020+PCB-028	PCB20_28	pg/g	76.8		0.43	0.43	203		0.72	0.72	142		0.37	0.37
PCB-021+PCB-033	PCB21_33	pg/g	6.03		0.42	0.42	65.2		0.71	0.71	14.2		0.37	0.37
PCB-022	38444-85-8	pg/g	14.9		0.46	0.46	46		0.78	0.78	31.7		0.41	0.41
PCB-023	55720-44-0	pg/g	ND	U	0.43	0.43	ND	U	0.73	0.73	ND	U	0.38	0.38
PCB-024	55702-45-9	pg/g	0.64	J	0.34	0.34	0.87	J	0.59	0.59	0.605	J	0.30	0.30
PCB-025	55712-37-3	pg/g	2.32	J	0.42	0.42	10.3		0.70	0.70	4.12		0.37	0.37

Sample Code			3H				4A				4B			
Lab Sample ID			L2756294-16				L2756294-17				L2756294-18			
Analyte	CAS	Units	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL
PCB-026+PCB-029	PCB26_29	pg/g	6.98		0.41	0.41	26.6		0.70	0.70	13.9		0.36	0.36
PCB-027	38444-76-7	pg/g	2.2	J	0.31	0.31	5.1	J	0.55	0.55	2.47		0.28	0.28
PCB-031	16606-02-3	pg/g	33.9		0.40	0.40	137		0.67	0.67	73.4		0.35	0.35
PCB-032	38444-77-8	pg/g	7.83		0.28	0.28	21.6		0.50	0.50	9.6		0.25	0.25
PCB-034	37680-68-5	pg/g	ND	U	0.45	0.45	ND	U	0.76	0.76	ND	U	0.39	0.39
PCB-035	37680-69-6	pg/g	ND	U	0.46	0.46	ND	U	0.77	0.77	ND	U	0.40	0.40
PCB-036	38444-87-0	pg/g	ND	U	0.39	0.39	ND	U	0.66	0.66	ND	U	0.34	0.34
PCB-037	38444-90-5	pg/g	1.2	J	0.51	0.51	16.3		0.85	0.85	12		0.42	0.42
PCB-038	53555-66-1	pg/g	ND	U	0.46	0.46	ND	U	0.78	0.78	ND	U	0.40	0.40
PCB-039	38444-88-1	pg/g	ND	U	0.47	0.47	ND	U	0.79	0.79	0.64	J	0.41	0.41
PCB-040+PCB-041+PCB-071	PCB40_41_71	pg/g	17.2		0.28	0.28	44.9		0.70	0.70	46.2		0.19	0.19
PCB-042	36559-22-5	pg/g	20.4		0.32	0.32	43.9		0.79	0.79	45.3		0.21	0.21
PCB-043	70362-46-8	pg/g	3.24		0.30	0.30	6.58	M	0.75	0.75	6.56		0.20	0.20
PCB-044+PCB-047+PCB-065	PCB44_47_65	pg/g	101		0.25	0.25	145		0.61	0.61	187		0.17	0.17
PCB-045+PCB-051	PCB45_51	pg/g	7.43		0.28	0.28	12	J	0.70	0.70	14.1		0.19	0.19
PCB-046	41464-47-5	pg/g	2.14	J	0.31	0.31	2.75		0.77	0.77	2.28	J	0.21	0.21

Sample Code			3H				4A				4B			
Lab Sample ID			L2756294-16				L2756294-17				L2756294-18			
Analyte	CAS	Units	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL
PCB-048	70362-47-9	pg/g	10	J	0.28	0.28	12		0.70	0.70	22.9		0.19	0.19
PCB-049+PCB-069	PCB49_69	pg/g	79.9		0.23	0.23	121		0.59	0.59	151		0.16	0.16
PCB-050+PCB-053	PCB50_53	pg/g	5.65		0.27	0.27	13		0.68	0.68	12		0.18	0.18
PCB-052	35693-99-3	pg/g	254	M	0.31	0.31	308	M	0.77	0.77	422	M	0.21	0.21
PCB-054	15968-05-5	pg/g	ND	U	0.10	0.10	ND	U	0.20	0.20	ND	M,U	0.10	0.10
PCB-055	74338-24-2	pg/g	ND	U	0.93	0.93	ND	U	0.92	0.92	3.72		0.50	0.50
PCB-056	41464-43-1	pg/g	9.5		0.84	0.84	28.4		0.83	0.83	50.5		0.45	0.45
PCB-057	70424-67-8	pg/g	ND	U	0.90	0.90	ND	U	0.89	0.89	0.99	J	0.48	0.48
PCB-058	41464-49-7	pg/g	1	J	0.86	0.86	ND	M,U	0.85	0.85	1.12	M,J	0.46	0.46
PCB-059+PCB-062+PCB-075	PCB59_62_75	pg/g	7.2		0.20	0.20	15.5		0.51	0.51	14.4		0.14	0.14
PCB-060	33025-41-1	pg/g	30.1		0.91	0.91	55.4		0.90	0.90	54.1		0.49	0.49
PCB-061+PCB-070+PCB-074+PCB-076	PCB61_70_74_76	pg/g	141		0.86	0.86	374		0.85	0.85	491		0.46	0.46
PCB-063	74472-34-7	pg/g	5.24		0.86	0.86	8.73		0.85	0.85	10.8		0.46	0.46
PCB-064	52663-58-8	pg/g	46		0.21	0.21	85.2		0.53	0.53	96.3		0.14	0.14
PCB-066	32598-10-0	pg/g	109		0.83	0.83	172		0.82	0.82	210		0.44	0.44
PCB-067	73575-53-8	pg/g	1.1	J	0.77	0.77	4.65		0.76	0.76	4.58		0.41	0.41

Sample Code			3H				4A				4B			
Lab Sample ID			L2756294-16				L2756294-17				L2756294-18			
Analyte	CAS	Units	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL
PCB-068	73575-52-7	pg/g	1.28	J	0.86	0.86	2.92		0.85	0.85	2.74		0.45	0.45
PCB-072	41464-42-0	pg/g	1.07	J	0.87	0.87	1.4	J	0.86	0.86	2.29	J	0.46	0.46
PCB-073	74338-23-1	pg/g	1.5	J	0.20	0.20	1.1	J	0.49	0.49	2.1	J	0.13	0.13
PCB-077	32598-13-3	pg/g	5.34		1.10	1.10	25.9		0.93	0.93	22.6		0.55	0.55
PCB-078	70362-49-1	pg/g	ND	U	0.96	0.96	ND	U	0.95	0.95	ND	U	0.51	0.51
PCB-079	41464-48-6	pg/g	1.8	J	0.78	0.78	3.2	J	0.77	0.77	7.4	J	0.41	0.41
PCB-080	33284-52-5	pg/g	ND	U	0.70	0.70	ND	U	0.69	0.69	ND	U	0.37	0.37
PCB-081	70362-50-4	pg/g	ND	U	1.00	1.00	1.1	J	0.92	0.92	0.9	J	0.51	0.51
PCB-082	52663-62-4	pg/g	22	M,NJ	0.90	0.90	46.4	M	1.60	1.60	77.7	M	0.97	0.97
PCB-083+PCB-099	PCB83_99	pg/g	294		0.75	0.75	410		1.40	1.40	893		0.81	0.81
PCB-084	52663-60-2	pg/g	38.5		0.76	0.76	28.9		1.40	1.40	104		0.82	0.82
PCB-085+PCB-110+PCB-115+PCB-116+PCB-117	PCBCONGPK301	pg/g	431	M	0.55	0.55	742	M	0.98	0.98	1260	M	0.59	0.59
PCB-086+PCB-087+PCB-097+PCB-109+PCB-119+PCB-125	PCBCONGPK302	pg/g	213	M	0.57	0.57	346	M	1.00	1.00	672	M	0.61	0.61
PCB-088+PCB-091	PCB88_91	pg/g	41		0.74	0.74	54.7		1.30	1.30	102		0.80	0.80
PCB-089	73575-57-2	pg/g	ND	U	0.88	0.88	ND	M,U	1.60	1.60	1.5	J	0.95	0.95

Sample Code			3H				4A				4B			
Lab Sample ID			L2756294-16				L2756294-17				L2756294-18			
Analyte	CAS	Units	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL
PCB-090+PCB-101+PCB-113	PCB90_101_113	pg/g	410		0.59	0.59	613		1.10	1.10	1320		0.63	0.63
PCB-092	52663-61-3	pg/g	80.5		0.81	0.81	103		1.50	1.50	214		0.87	0.87
PCB-093+PCB-098+PCB-100+PCB-102	PCBCONGPK303	pg/g	6.3	M,NJ	0.66	0.66	7.8	M,NJ	1.20	1.20	12.6	M	0.71	0.71
PCB-094	73575-55-0	pg/g	ND	U	0.76	0.76	ND	U	1.40	1.40	1.37	M,J	0.82	0.82
PCB-095	38379-99-6	pg/g	229	M	0.93	0.93	297	M	1.70	1.70	558	M	0.99	0.99
PCB-096	73575-54-9	pg/g	0.45	J	0.36	0.36	ND	U	0.39	0.39	1.34	M,J	0.19	0.19
PCB-103	60145-21-3	pg/g	2.16	M,J	0.71	0.71	2.52	M	1.30	1.30	4.44		0.76	0.76
PCB-104	56558-16-8	pg/g	ND	U	0.25	0.25	ND	M,U	0.36	0.36	ND	U	0.15	0.15
PCB-105	32598-14-4	pg/g	155		3.60	3.60	229		1.80	1.80	485		3.50	3.50
PCB-106	70424-69-0	pg/g	ND	U	2.70	2.70	ND	U	1.70	1.70	ND	U	3.00	3.00
PCB-107	70424-68-9	pg/g	24.2	M	2.30	2.30	42.7	M	1.40	1.40	82.3	M	2.50	2.50
PCB-108+PCB-124	PCB108_124	pg/g	6.9	J	2.50	2.50	22.9		1.60	1.60	45.9		2.70	2.70
PCB-111	39635-32-0	pg/g	ND	U	0.49	0.49	ND	M,U	0.88	0.88	0.7	J	0.52	0.52
PCB-112	74472-36-9	pg/g	ND	U	0.48	0.48	ND	U	0.86	0.86	ND	U	0.51	0.51
PCB-114	74472-37-0	pg/g	13.3	J	3.10	3.10	18.1	M	1.70	1.70	41	J	3.70	3.70
PCB-118	31508-00-6	pg/g	424		2.10	2.10	695	M	1.50	1.50	1580		2.40	2.40

Sample Code			3H				4A				4B			
Lab Sample ID			L2756294-16				L2756294-17				L2756294-18			
Analyte	CAS	Units	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL
PCB-120	68194-12-7	pg/g	1.99	J	0.47	0.47	3.09		0.85	0.85	4.46		0.51	0.51
PCB-121	56558-18-0	pg/g	ND	U	0.50	0.50	1.9	J	0.91	0.91	1.09	M,J	0.54	0.54
PCB-122	76842-07-4	pg/g	9.9	J	3.30	3.30	ND	U	2.10	2.10	18	J	3.70	3.70
PCB-123	65510-44-3	pg/g	4.6	J	3.60	3.60	9.2	M,NJ	1.70	1.70	29.1	M	3.60	3.60
PCB-126	57465-28-8	pg/g	2.5	J	0.90	0.90	3.1	M,NJ	2.10	2.10	6.26	M	1.10	1.10
PCB-127	39635-33-1	pg/g	ND	U	2.70	2.70	ND	U	1.60	1.60	ND	U	2.90	2.90
PCB-128+PCB-166	PCB128_166	pg/g	67.6		1.70	1.70	143		0.82	0.82	293		3.60	3.60
PCB-129+PCB-138+PCB-163	PCB129_138_163	pg/g	586		1.90	1.90	1170	M	0.96	0.96	2380		4.10	4.10
PCB-130	52663-66-8	pg/g	25	J	2.30	2.30	66.2		1.10	1.10	144		5.00	5.00
PCB-131	61798-70-7	pg/g	3.6	J	2.50	2.50	7.52		1.20	1.20	14	J	5.40	5.40
PCB-132	38380-05-1	pg/g	77.8		2.20	2.20	181		1.10	1.10	304		4.80	4.80
PCB-133	35694-04-3	pg/g	8.7	J	2.10	2.10	17.4		1.10	1.10	35		4.60	4.60
PCB-134+PCB-143	PCB134_143	pg/g	7.6	J	2.40	2.40	16	J	1.20	1.20	52	J	5.10	5.10
PCB-135+PCB-151	PCB135_151	pg/g	97	M	1.30	1.30	190	M	0.51	0.51	236	M	2.00	2.00
PCB-136	38411-22-2	pg/g	14.1	J	0.98	0.98	33		0.39	0.39	62.5		1.50	1.50
PCB-137+PCB-164	PCB137_164	pg/g	48.9	M	1.70	1.70	103	M	0.83	0.83	209	M	3.60	3.60

Sample Code			3H				4A				4B			
Lab Sample ID			L2756294-16				L2756294-17				L2756294-18			
Analyte	CAS	Units	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL
PCB-139+PCB-140	PCB139_140	pg/g	6.51	J	1.80	1.80	17.2		0.96	0.96	34.2		3.90	3.90
PCB-141	52712-04-6	pg/g	82.1		1.80	1.80	167		0.94	0.94	273		4.00	4.00
PCB-142	41411-61-4	pg/g	ND	U	2.30	2.30	ND	U	1.20	1.20	ND	U	4.90	4.90
PCB-144	68194-14-9	pg/g	13	J	1.30	1.30	37.5		0.51	0.51	51.4		2.10	2.10
PCB-145	74472-40-5	pg/g	ND	U	0.94	0.94	ND	U	0.38	0.38	ND	U	1.50	1.50
PCB-146	51908-16-8	pg/g	68	J	1.70	1.70	163		0.87	0.87	299		3.70	3.70
PCB-147+PCB-149	PCB147_149	pg/g	244		1.90	1.90	531		0.94	0.94	908		4.20	4.20
PCB-148	74472-41-6	pg/g	ND	U	1.30	1.30	1.8	J	0.51	0.51	ND	U	2.00	2.00
PCB-150	68194-08-1	pg/g	ND	U	0.88	0.88	1	J	0.33	0.33	ND	U	1.40	1.40
PCB-152	68194-09-2	pg/g	ND	U	0.99	0.99	ND	U	0.42	0.42	ND	U	1.50	1.50
PCB-153+PCB-168	PCB153_168	pg/g	482		1.50	1.50	1030		0.75	0.75	1890		3.30	3.30
PCB-154	60145-22-4	pg/g	8	M,J	1.10	1.10	2	J	0.39	0.39	20.7	M	1.70	1.70
PCB-155	33979-03-2	pg/g	2.34	J	0.44	0.44	9.9		0.23	0.23	3.4	J	0.63	0.63
PCB-156+PCB-157	PCB156_157	pg/g	56.1		2.20	2.20	95.6		0.93	0.93	234		5.00	5.00
PCB-158	74472-42-7	pg/g	49		1.30	1.30	89.5	M	0.60	0.60	209		2.80	2.80
PCB-159	39635-35-3	pg/g	2.7	J	1.40	1.40	5.3	J	0.68	0.68	6.63	J	3.10	3.10

Sample Code			3H				4A				4B			
Lab Sample ID			L2756294-16				L2756294-17				L2756294-18			
Analyte	CAS	Units	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL
PCB-160	41411-62-5	pg/g	ND	U	1.60	1.60	13	M,NJ	0.72	0.72	ND	U	3.50	3.50
PCB-161	74472-43-8	pg/g	ND	U	1.40	1.40	ND	U	0.71	0.71	ND	U	3.10	3.10
PCB-162	39635-34-2	pg/g	ND	U	1.50	1.50	4.7		0.72	0.72	10.9	J	3.30	3.30
PCB-165	74472-46-1	pg/g	ND	U	1.60	1.60	1.08	J	0.80	0.80	ND	U	3.50	3.50
PCB-167	52663-72-6	pg/g	22.7		1.50	1.50	41.4		0.60	0.60	86.1		2.90	2.90
PCB-169	32774-16-6	pg/g	0.71	J	0.37	0.37	1.1	J	0.78	0.78	6	J	0.61	0.61
PCB-170	35065-30-6	pg/g	91.8		2.70	2.70	160		0.48	0.48	232		2.80	2.80
PCB-171+PCB-173	PCB171_173	pg/g	32.8		2.60	2.60	40.6		0.48	0.48	93.8		2.70	2.70
PCB-172	52663-74-8	pg/g	22.1		2.60	2.60	42		0.48	0.48	62.4		2.70	2.70
PCB-174	38411-25-5	pg/g	59	J	2.20	2.20	139		0.46	0.46	160		2.30	2.30
PCB-175	40186-70-7	pg/g	3.2	J	2.40	2.40	10.1		0.48	0.48	14.8	J	2.50	2.50
PCB-176	52663-65-7	pg/g	4.2	J	1.70	1.70	14.4		0.34	0.34	20.2		1.80	1.80
PCB-177	52663-70-4	pg/g	36	J	2.50	2.50	98.2		0.47	0.47	135		2.60	2.60
PCB-178	52663-67-9	pg/g	25	J	2.50	2.50	42.9		0.49	0.49	63.7		2.60	2.60
PCB-179	52663-64-6	pg/g	14	J	1.70	1.70	32.2		0.35	0.35	57.8		1.80	1.80
PCB-180+PCB-193	PCB180_193	pg/g	316		2.10	2.10	525		0.39	0.39	840		2.20	2.20

Sample Code			3H				4A				4B			
Lab Sample ID			L2756294-16				L2756294-17				L2756294-18			
Analyte	CAS	Units	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL
PCB-181	74472-47-2	pg/g	ND	U	2.50	2.50	2.17	J	0.48	0.48	3.7	J	2.60	2.60
PCB-182	60145-23-5	pg/g	ND	U	2.20	2.20	1.7	J	0.46	0.46	ND	U	2.20	2.20
PCB-183	52663-69-1	pg/g	59	J	2.20	2.20	128		0.43	0.43	185		2.30	2.30
PCB-184	74472-48-3	pg/g	2.2	J	1.60	1.60	15.3		0.33	0.33	6.11	J	1.70	1.70
PCB-185	52712-05-7	pg/g	11	J	2.60	2.60	21	J	0.49	0.49	24	J	2.60	2.60
PCB-186	74472-49-4	pg/g	ND	U	1.80	1.80	ND	U	0.37	0.37	ND	U	1.90	1.90
PCB-187	52663-68-0	pg/g	182		2.30	2.30	381		0.44	0.44	587		2.30	2.30
PCB-188	74487-85-7	pg/g	ND	U	1.30	1.30	0.31	J	0.27	0.27	ND	U	1.30	1.30
PCB-189	39635-31-9	pg/g	3	J	1.60	1.60	7.26		0.19	0.19	13.7	J	1.60	1.60
PCB-190	41411-64-7	pg/g	20.8		1.80	1.80	38		0.30	0.30	48.5		1.90	1.90
PCB-191	74472-50-7	pg/g	4.5	J	1.90	1.90	8.52		0.34	0.34	8.6	J	1.90	1.90
PCB-192	74472-51-8	pg/g	ND	U	2.20	2.20	ND	U	0.40	0.40	ND	U	2.20	2.20
PCB-194	35694-08-7	pg/g	38	J	2.10	2.10	84.3		0.35	0.35	140		1.10	1.10
PCB-195	52663-78-2	pg/g	11	J	2.20	2.20	26		0.39	0.39	39.8		1.10	1.10
PCB-196	42740-50-1	pg/g	21	J	1.40	1.40	46.6		0.24	0.24	70.7		0.76	0.76
PCB-197	33091-17-7	pg/g	1.6	J	0.95	0.95	4.6		0.19	0.19	6.1	J	0.53	0.53

Sample Code			3H				4A				4B			
Lab Sample ID			L2756294-16				L2756294-17				L2756294-18			
Analyte	CAS	Units	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL
PCB-198+PCB-199	PCB198_199	pg/g	69.3		1.40	1.40	136		0.25	0.25	200		0.78	0.78
PCB-200	52663-73-7	pg/g	1.7	J	0.97	0.97	7.1	J	0.18	0.18	12.5	J	0.54	0.54
PCB-201	40186-71-8	pg/g	3.5	J	0.88	0.88	12.5		0.18	0.18	18.7		0.49	0.49
PCB-202	2136-99-4	pg/g	11.8	J	0.74	0.74	17.6		0.14	0.14	34.6		0.44	0.44
PCB-203	52663-76-0	pg/g	46.6		1.30	1.30	97.3		0.23	0.23	131		0.72	0.72
PCB-204	74472-52-9	pg/g	ND	U	0.91	0.91	0.41	J	0.18	0.18	ND	U	0.51	0.51
PCB-205	74472-53-0	pg/g	ND	U	2.00	2.00	3.6	J	0.36	0.36	7.9	J	0.94	0.94
PCB-206	40186-72-9	pg/g	16.4	J	1.50	1.50	39.4		0.40	0.40	92.2		1.60	1.60
PCB-207	52663-79-3	pg/g	2.06	M,J	0.86	0.86	4.82		0.23	0.23	13	J	0.86	0.86
PCB-208	52663-77-1	pg/g	6.66	J	0.80	0.80	12.4		0.24	0.24	33.7		0.76	0.76
PCB-209	2051-24-3	pg/g	6.54	J	0.61	0.61	10.7		0.10	0.10	46.5		0.58	0.58
Total PCBs	1336-36-3	pg/g	6610	J	0.00	0.00	12200	J	0.00	0.00	21000	J	0.00	0.00

Sample Code			4C				4D				4E			
Lab Sample ID			L2756294-19				L2756294-20				L2756294-21			
Analyte	CAS	Units	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL
PCB-001	2051-60-7	pg/g	1.66	U	0.21	0.21	1.12	U	0.13	0.13	1.1	UJ	0.18	0.18
PCB-002	2051-61-8	pg/g	1.2	UJ	0.22	0.22	0.98	UJ	0.14	0.14	1.71	U	0.20	0.20
PCB-003	2051-62-9	pg/g	1.7	UJ	0.26	0.26	1.54	U	0.16	0.16	1.7	UJ	0.22	0.22
PCB-004	13029-08-8	pg/g	7.33	M	1.50	1.50	3.52	M	0.99	0.99	4.6	J	1.30	1.30
PCB-005	16605-91-7	pg/g	ND	U	0.89	0.89	ND	U	0.63	0.63	ND	U	0.81	0.81
PCB-006	25569-80-6	pg/g	4	M,NJ	0.88	0.88	1.79	M,J	0.58	0.58	3.5	M,NJ	0.74	0.74
PCB-007	33284-50-3	pg/g	ND	U	0.86	0.86	ND	U	0.58	0.58	ND	U	0.75	0.75
PCB-008	34883-43-7	pg/g	17.2	M	0.82	0.82	7.16	M	0.54	0.54	12.9	M	0.70	0.70
PCB-009	34883-39-1	pg/g	ND	U	0.87	0.87	ND	U	0.58	0.58	1.5	J	0.75	0.75
PCB-010	33146-45-1	pg/g	ND	U	0.85	0.85	ND	U	0.55	0.55	ND	U	0.71	0.71
PCB-011	2050-67-1	pg/g	17.7	M	1.20	1.20	5.87	U	0.67	0.67	8.32	U	1.00	1.00
PCB-012+PCB-013	PCB12_13	pg/g	ND	U	1.10	1.10	ND	U	0.65	0.65	ND	U	0.97	0.97
PCB-014	34883-41-5	pg/g	ND	U	1.10	1.10	ND	U	0.65	0.65	ND	U	0.98	0.98
PCB-015	2050-68-2	pg/g	6.4	M,NJ	1.20	1.20	ND	U	0.71	0.71	4.51	M	1.10	1.10
PCB-016	38444-78-9	pg/g	17.2		0.70	0.70	3.06	M	0.25	0.25	10.7		0.49	0.49
PCB-017	37680-66-3	pg/g	19.2		0.59	0.59	6.93		0.22	0.22	14.6		0.42	0.42

Sample Code			4C				4D				4E			
Lab Sample ID			L2756294-19				L2756294-20				L2756294-21			
Analyte	CAS	Units	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL
PCB-018+PCB-030	PCB18_30	pg/g	44.4		0.51	0.51	15.7		0.19	0.19	32.8		0.37	0.37
PCB-019	38444-73-4	pg/g	4.86		0.45	0.45	1.2	J	0.26	0.26	2.3	J	0.26	0.26
PCB-020+PCB-028	PCB20_28	pg/g	220		0.64	0.64	157		0.32	0.32	110	J	2.20	2.20
PCB-021+PCB-033	PCB21_33	pg/g	24.9		0.63	0.63	3.72		0.31	0.31	25.2		0.44	0.44
PCB-022	38444-85-8	pg/g	34.1		0.69	0.69	13.5		0.35	0.35	16.5		0.50	0.50
PCB-023	55720-44-0	pg/g	ND	U	0.65	0.65	ND	U	0.32	0.32	ND	U	0.45	0.45
PCB-024	55702-45-9	pg/g	0.8	J	0.47	0.47	0.41	J	0.17	0.17	0.69	J	0.33	0.33
PCB-025	55712-37-3	pg/g	6.54		0.62	0.62	2.08	J	0.31	0.31	3.56		0.44	0.44
PCB-026+PCB-029	PCB26_29	pg/g	19.1		0.62	0.62	5.33		0.31	0.31	9.63		0.44	0.44
PCB-027	38444-76-7	pg/g	3.31		0.44	0.44	1.1	J	0.17	0.17	3.19		0.32	0.32
PCB-031	16606-02-3	pg/g	121		0.59	0.59	30.3		0.30	0.30	52.8		0.42	0.42
PCB-032	38444-77-8	pg/g	12.1		0.40	0.40	4.98		0.15	0.15	6.23		0.29	0.29
PCB-034	37680-68-5	pg/g	ND	U	0.67	0.67	ND	M,U	0.33	0.33	ND	U	0.47	0.47
PCB-035	37680-69-6	pg/g	ND	U	0.68	0.68	ND	U	0.35	0.35	ND	U	0.50	0.50
PCB-036	38444-87-0	pg/g	ND	U	0.59	0.59	ND	U	0.29	0.29	ND	U	0.41	0.41
PCB-037	38444-90-5	pg/g	22.5		0.74	0.74	1.64	J	0.36	0.36	11.7		0.55	0.55

Sample Code			4C				4D				4E			
Lab Sample ID			L2756294-19				L2756294-20				L2756294-21			
Analyte	CAS	Units	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL
PCB-038	53555-66-1	pg/g	ND	M,U	0.69	0.69	ND	U	0.34	0.34	ND	U	0.49	0.49
PCB-039	38444-88-1	pg/g	1.42	J	0.70	0.70	ND	U	0.35	0.35	0.77	J	0.50	0.50
PCB-040+PCB-041+PCB-071	PCB40_41_71	pg/g	56.7		0.28	0.28	8.79		0.22	0.22	39.3		0.22	0.22
PCB-042	36559-22-5	pg/g	80.4		0.32	0.32	36.1		0.25	0.25	26		0.25	0.25
PCB-043	70362-46-8	pg/g	8.37	M	0.30	0.30	5.32		0.23	0.23	4.92		0.23	0.23
PCB-044+PCB-047+PCB-065	PCB44_47_65	pg/g	398		0.25	0.25	159		0.19	0.19	139		0.19	0.19
PCB-045+PCB-051	PCB45_51	pg/g	21		0.28	0.28	4.77		0.22	0.22	8.1	J	0.22	0.22
PCB-046	41464-47-5	pg/g	4.7	J	0.31	0.31	1.11	J	0.24	0.24	2.1	J	0.24	0.24
PCB-048	70362-47-9	pg/g	51.3		0.29	0.29	7.3	J	0.22	0.22	22		0.22	0.22
PCB-049+PCB-069	PCB49_69	pg/g	306		0.24	0.24	184		0.18	0.18	103		0.18	0.18
PCB-050+PCB-053	PCB50_53	pg/g	15.5		0.28	0.28	2.2	J	0.21	0.21	10.6		0.21	0.21
PCB-052	35693-99-3	pg/g	957	M	0.31	0.31	276	M	0.23	0.23	362	M	0.22	0.22
PCB-054	15968-05-5	pg/g	ND	U	0.18	0.18	ND	U	0.11	0.11	ND	U	0.14	0.14
PCB-055	74338-24-2	pg/g	ND	U	12.00	12.00	ND	U	0.35	0.35	ND	U	3.00	3.00
PCB-056	41464-43-1	pg/g	86	J	12.00	12.00	7.3	J	0.32	0.32	24	J	2.80	2.80
PCB-057	70424-67-8	pg/g	ND	U	12.00	12.00	ND	M,U	0.35	0.35	ND	U	2.90	2.90

Sample Code			4C				4D				4E			
Lab Sample ID			L2756294-19				L2756294-20				L2756294-21			
Analyte	CAS	Units	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL
PCB-058	41464-49-7	pg/g	ND	U	13.00	13.00	0.615	M,J	0.33	0.33	ND	U	3.00	3.00
PCB-059+PCB-062+PCB-075	PCB59_62_75	pg/g	26.1		0.21	0.21	12.7		0.16	0.16	8.43		0.16	0.16
PCB-060	33025-41-1	pg/g	130		12.00	12.00	118		0.34	0.34	35.3		3.00	3.00
PCB-061+PCB-070+PCB-074+PCB-076	PCB61_70_74_76	pg/g	1160		12.00	12.00	347		0.32	0.32	374		2.80	2.80
PCB-063	74472-34-7	pg/g	23.4		11.00	11.00	18.3		0.32	0.32	6.89	J	2.70	2.70
PCB-064	52663-58-8	pg/g	186		0.22	0.22	120		0.16	0.16	59.8		0.16	0.16
PCB-066	32598-10-0	pg/g	490		11.00	11.00	417		0.32	0.32	157		2.70	2.70
PCB-067	73575-53-8	pg/g	ND	U	9.80	9.80	1.25	J	0.29	0.29	ND	U	2.40	2.40
PCB-068	73575-52-7	pg/g	ND	U	11.00	11.00	2.4	J	0.33	0.33	ND	U	2.60	2.60
PCB-072	41464-42-0	pg/g	ND	U	11.00	11.00	1.3	J	0.33	0.33	ND	U	2.80	2.80
PCB-073	74338-23-1	pg/g	2.4	J	0.20	0.20	1.2	J	0.16	0.16	2.4	J	0.16	0.16
PCB-077	32598-13-3	pg/g	40.2		0.64	0.64	6.4	J	0.40	0.40	15.1		0.53	0.53
PCB-078	70362-49-1	pg/g	ND	U	14.00	14.00	ND	U	0.37	0.37	ND	U	3.30	3.30
PCB-079	41464-48-6	pg/g	ND	U	11.00	11.00	2.62		0.29	0.29	11	J	2.70	2.70
PCB-080	33284-52-5	pg/g	ND	U	9.70	9.70	ND	U	0.27	0.27	ND	U	2.40	2.40
PCB-081	70362-50-4	pg/g	2.63		0.63	0.63	1.8	J	0.38	0.38	0.537	M,J	0.48	0.48

Sample Code			4C				4D				4E			
Lab Sample ID			L2756294-19				L2756294-20				L2756294-21			
Analyte	CAS	Units	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL
PCB-082	52663-62-4	pg/g	120	J	20.00	20.00	13.4		0.75	0.75	97.6		8.20	8.20
PCB-083+PCB-099	PCB83_99	pg/g	1100		16.00	16.00	653		0.63	0.63	697		6.50	6.50
PCB-084	52663-60-2	pg/g	150	J	15.00	15.00	29.6		0.62	0.62	123		6.30	6.30
PCB-085+PCB-110+PCB-115+PCB-116+PCB-117	PCBCONGPK301	pg/g	1830	M	12.00	12.00	615	M	0.46	0.46	1100	M	4.80	4.80
PCB-086+PCB-087+PCB-097+PCB-109+PCB-119+PCB-125	PCBCONGPK302	pg/g	939	M	12.00	12.00	260	M	0.47	0.47	569	M	5.00	5.00
PCB-088+PCB-091	PCB88_91	pg/g	172		15.00	15.00	66.5		0.62	0.62	90.3		6.20	6.20
PCB-089	73575-57-2	pg/g	ND	U	18.00	18.00	ND	U	0.78	0.78	ND	U	7.50	7.50
PCB-090+PCB-101+PCB-113	PCB90_101_113	pg/g	1610		13.00	13.00	607		0.49	0.49	1090		5.20	5.20
PCB-092	52663-61-3	pg/g	275		17.00	17.00	161		0.67	0.67	183		6.90	6.90
PCB-093+PCB-098+PCB-100+PCB-102	PCBCONGPK303	pg/g	33.1	M	13.00	13.00	4.69	M	0.56	0.56	20.8	M	5.50	5.50
PCB-094	73575-55-0	pg/g	ND	U	15.00	15.00	1.3	J	0.64	0.64	ND	U	6.30	6.30
PCB-095	38379-99-6	pg/g	1100	M	22.00	22.00	210	M	0.76	0.76	651	M	9.00	9.00
PCB-096	73575-54-9	pg/g	ND	U	7.50	7.50	0.4	M,J	0.16	0.16	2.3	J	2.10	2.10
PCB-103	60145-21-3	pg/g	ND	U	14.00	14.00	3.36		0.60	0.60	ND	U	5.90	5.90
PCB-104	56558-16-8	pg/g	ND	U	4.20	4.20	ND	U	0.13	0.13	ND	U	1.10	1.10

Sample Code			4C				4D				4E			
Lab Sample ID			L2756294-19				L2756294-20				L2756294-21			
Analyte	CAS	Units	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL
PCB-105	32598-14-4	pg/g	582		13.00	13.00	404		3.90	3.90	354		3.50	3.50
PCB-106	70424-69-0	pg/g	ND	U	11.00	11.00	ND	U	3.10	3.10	ND	U	3.10	3.10
PCB-107	70424-68-9	pg/g	101	M	8.80	8.80	52.6	M	2.60	2.60	59.2	M	2.60	2.60
PCB-108+PCB-124	PCB108_124	pg/g	58.4		9.70	9.70	14.4	J	2.80	2.80	31	J	2.90	2.90
PCB-111	39635-32-0	pg/g	ND	U	10.00	10.00	0.57	J	0.41	0.41	ND	U	4.20	4.20
PCB-112	74472-36-9	pg/g	ND	U	10.00	10.00	ND	U	0.40	0.40	ND	U	4.20	4.20
PCB-114	74472-37-0	pg/g	28	J	12.00	12.00	16	J	4.00	4.00	38		4.00	4.00
PCB-118	31508-00-6	pg/g	1670		9.60	9.60	1020		2.60	2.60	1150	M	2.70	2.70
PCB-120	68194-12-7	pg/g	ND	M,U	10.00	10.00	2.92		0.39	0.39	ND	U	4.30	4.30
PCB-121	56558-18-0	pg/g	ND	U	10.00	10.00	0.921	M,J	0.42	0.42	ND	U	4.30	4.30
PCB-122	76842-07-4	pg/g	ND	U	13.00	13.00	ND	U	3.80	3.80	15	J	3.90	3.90
PCB-123	65510-44-3	pg/g	28	M,NJ	12.00	12.00	13	J	3.70	3.70	17	J	3.70	3.70
PCB-126	57465-28-8	pg/g	7.8	M,NJ	1.30	1.30	5	J	0.66	0.66	4.2	M,NJ	0.77	0.77
PCB-127	39635-33-1	pg/g	ND	U	10.00	10.00	ND	U	3.00	3.00	ND	M,U	3.10	3.10
PCB-128+PCB-166	PCB128_166	pg/g	268		10.00	10.00	176		1.90	1.90	213		3.40	3.40
PCB-129+PCB-138+PCB-163	PCB129_138_163	pg/g	2250		12.00	12.00	1430		2.10	2.10	1920		3.80	3.80

Sample Code			4C				4D				4E			
Lab Sample ID			L2756294-19				L2756294-20				L2756294-21			
Analyte	CAS	Units	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL
PCB-130	52663-66-8	pg/g	95	J	14.00	14.00	53.1		2.60	2.60	125		4.60	4.60
PCB-131	61798-70-7	pg/g	ND	U	15.00	15.00	5.1	J	2.80	2.80	28.9		5.00	5.00
PCB-132	38380-05-1	pg/g	427		14.00	14.00	77		2.50	2.50	481		4.40	4.40
PCB-133	35694-04-3	pg/g	30	J	13.00	13.00	20.8		2.40	2.40	22	J	4.30	4.30
PCB-134+PCB-143	PCB134_143	pg/g	37	J	15.00	15.00	18	J	2.70	2.70	83.2		4.70	4.70
PCB-135+PCB-151	PCB135_151	pg/g	379	M	5.40	5.40	184	M	1.50	1.50	374	M	2.50	2.50
PCB-136	38411-22-2	pg/g	96		4.20	4.20	13.7	J	1.20	1.20	119		1.90	1.90
PCB-137+PCB-164	PCB137_164	pg/g	216	M	10.00	10.00	135	M	1.90	1.90	208	M	3.30	3.30
PCB-139+PCB-140	PCB139_140	pg/g	34.4		11.00	11.00	17	J	2.00	2.00	32.9		3.60	3.60
PCB-141	52712-04-6	pg/g	307		11.00	11.00	216		2.10	2.10	368		3.70	3.70
PCB-142	41411-61-4	pg/g	ND	U	14.00	14.00	ND	U	2.60	2.60	ND	U	4.60	4.60
PCB-144	68194-14-9	pg/g	71.9		5.80	5.80	17	J	1.60	1.60	69.9		2.60	2.60
PCB-145	74472-40-5	pg/g	ND	U	4.00	4.00	ND	U	1.10	1.10	ND	U	1.80	1.80
PCB-146	51908-16-8	pg/g	290		11.00	11.00	208		1.90	1.90	242		3.40	3.40
PCB-147+PCB-149	PCB147_149	pg/g	1150		12.00	12.00	476		2.20	2.20	1280		3.80	3.80
PCB-148	74472-41-6	pg/g	ND	U	5.60	5.60	ND	U	1.50	1.50	ND	U	2.60	2.60

Sample Code			4C				4D				4E			
Lab Sample ID			L2756294-19				L2756294-20				L2756294-21			
Analyte	CAS	Units	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL
PCB-150	68194-08-1	pg/g	ND	U	3.80	3.80	ND	U	1.00	1.00	ND	U	1.70	1.70
PCB-152	68194-09-2	pg/g	ND	U	4.20	4.20	ND	U	1.20	1.20	ND	U	1.90	1.90
PCB-153+PCB-168	PCB153_168	pg/g	1950		9.40	9.40	1290		1.70	1.70	1670		3.00	3.00
PCB-154	60145-22-4	pg/g	14	J	4.80	4.80	5.2	J	1.30	1.30	11	J	2.20	2.20
PCB-155	33979-03-2	pg/g	9	J	1.80	1.80	4.3	J	0.46	0.46	3.6	J	0.77	0.77
PCB-156+PCB-157	PCB156_157	pg/g	203		12.00	12.00	136		2.40	2.40	193		4.20	4.20
PCB-158	74472-42-7	pg/g	195		7.90	7.90	135		1.40	1.40	186		2.50	2.50
PCB-159	39635-35-3	pg/g	ND	U	8.90	8.90	4.6	J	1.60	1.60	16.8	J	2.90	2.90
PCB-160	41411-62-5	pg/g	ND	U	9.90	9.90	ND	U	1.80	1.80	ND	U	3.20	3.20
PCB-161	74472-43-8	pg/g	ND	U	8.80	8.80	ND	U	1.60	1.60	ND	U	2.90	2.90
PCB-162	39635-34-2	pg/g	ND	U	9.40	9.40	3.2	J	1.70	1.70	5.82	J	3.10	3.10
PCB-165	74472-46-1	pg/g	ND	U	9.90	9.90	ND	U	1.80	1.80	ND	U	3.20	3.20
PCB-167	52663-72-6	pg/g	91		8.60	8.60	51.6		1.70	1.70	64.8		2.80	2.80
PCB-169	32774-16-6	pg/g	4.7	J	0.73	0.73	3	J	0.59	0.59	5.5	M,NJ	0.74	0.74
PCB-170	35065-30-6	pg/g	351		7.80	7.80	152		1.90	1.90	310		2.30	2.30
PCB-171+PCB-173	PCB171_173	pg/g	99.9		7.30	7.30	67.2		1.80	1.80	125		2.10	2.10

Sample Code			4C				4D				4E			
Lab Sample ID			L2756294-19				L2756294-20				L2756294-21			
Analyte	CAS	Units	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL
PCB-172	52663-74-8	pg/g	86		7.40	7.40	47.5		1.80	1.80	81.8		2.20	2.20
PCB-174	38411-25-5	pg/g	311		6.30	6.30	141		1.60	1.60	456		1.90	1.90
PCB-175	40186-70-7	pg/g	19.8		6.80	6.80	9.4	J	1.70	1.70	21	J	2.00	2.00
PCB-176	52663-65-7	pg/g	34.5		4.90	4.90	10.1	J	1.20	1.20	62		1.40	1.40
PCB-177	52663-70-4	pg/g	191		7.00	7.00	45.4		1.70	1.70	221		2.10	2.10
PCB-178	52663-67-9	pg/g	83.2		7.10	7.10	60.9		1.70	1.70	122		2.10	2.10
PCB-179	52663-64-6	pg/g	81.9		4.80	4.80	37.3		1.20	1.20	190		1.40	1.40
PCB-180+PCB-193	PCB180_193	pg/g	1150		6.00	6.00	606		1.50	1.50	1200		1.80	1.80
PCB-181	74472-47-2	pg/g	ND	U	7.20	7.20	2.72	J	1.80	1.80	2.5	J	2.10	2.10
PCB-182	60145-23-5	pg/g	ND	U	6.10	6.10	ND	U	1.50	1.50	2.9	J	1.80	1.80
PCB-183	52663-69-1	pg/g	290		6.30	6.30	147		1.60	1.60	307		1.90	1.90
PCB-184	74472-48-3	pg/g	19	J	4.60	4.60	8.98	J	1.10	1.10	5.53	J	1.40	1.40
PCB-185	52712-05-7	pg/g	45	J	7.30	7.30	22.4		1.80	1.80	65	J	2.10	2.10
PCB-186	74472-49-4	pg/g	ND	U	5.20	5.20	ND	U	1.30	1.30	ND	U	1.50	1.50
PCB-187	52663-68-0	pg/g	657		6.40	6.40	432		1.60	1.60	778		1.90	1.90
PCB-188	74487-85-7	pg/g	ND	U	3.70	3.70	0.87	J	0.87	0.87	ND	U	1.10	1.10

Sample Code			4C				4D				4E			
Lab Sample ID			L2756294-19				L2756294-20				L2756294-21			
Analyte	CAS	Units	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL
PCB-189	39635-31-9	pg/g	15	J	3.30	3.30	10.6	J	0.88	0.88	10	J	1.20	1.20
PCB-190	41411-64-7	pg/g	87.4		5.10	5.10	38.1		1.30	1.30	78		1.50	1.50
PCB-191	74472-50-7	pg/g	25		5.30	5.30	6.7	J	1.30	1.30	16	J	1.60	1.60
PCB-192	74472-51-8	pg/g	ND	U	6.20	6.20	ND	U	1.50	1.50	ND	U	1.80	1.80
PCB-194	35694-08-7	pg/g	154		2.90	2.90	105		1.00	1.00	259		1.00	1.00
PCB-195	52663-78-2	pg/g	32	J	3.00	3.00	27	J	1.00	1.00	87.1		1.10	1.10
PCB-196	42740-50-1	pg/g	64	J	3.30	3.30	51.1		0.66	0.66	146		1.10	1.10
PCB-197	33091-17-7	pg/g	7.13	J	2.30	2.30	4.73	J	0.46	0.46	11	J	0.79	0.79
PCB-198+PCB-199	PCB198_199	pg/g	186		3.40	3.40	138		0.68	0.68	381		1.20	1.20
PCB-200	52663-73-7	pg/g	10	J	2.30	2.30	6.4	J	0.47	0.47	45.5		0.80	0.80
PCB-201	40186-71-8	pg/g	16	J	2.10	2.10	11	J	0.43	0.43	47.7		0.73	0.73
PCB-202	2136-99-4	pg/g	24	J	1.90	1.90	21.6		0.38	0.38	66.3		0.65	0.65
PCB-203	52663-76-0	pg/g	139		3.10	3.10	89.8		0.63	0.63	222		1.10	1.10
PCB-204	74472-52-9	pg/g	ND	U	2.20	2.20	ND	U	0.44	0.44	ND	U	0.75	0.75
PCB-205	74472-53-0	pg/g	8.6	J	2.40	2.40	4.6	J	0.92	0.92	13.1	J	0.92	0.92
PCB-206	40186-72-9	pg/g	56.7		5.90	5.90	50.8		1.70	1.70	98.3		2.50	2.50

Sample Code			4C				4D				4E			
Lab Sample ID			L2756294-19				L2756294-20				L2756294-21			
Analyte	CAS	Units	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL
PCB-207	52663-79-3	pg/g	7.5	J	3.70	3.70	7	J	1.00	1.00	15	J	1.40	1.40
PCB-208	52663-77-1	pg/g	17	J	3.70	3.70	14	J	0.96	0.96	26.5		1.30	1.30
PCB-209	2051-24-3	pg/g	17	J	1.20	1.20	14.6	J	0.47	0.47	7.2	J	0.66	0.66
Total PCBs	1336-36-3	pg/g	26900	J	0.00	0.00	13200	J	0.00	0.00	21200	J	0.00	0.00

Sample Code			5A				5B				5C			
Lab Sample ID			L2756294-22				L2756294-23				L2756294-24			
Analyte	CAS	Units	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL
PCB-001	2051-60-7	pg/g	0.901	U	0.21	0.21	0.789	U	0.068	0.068	1.1	UJ	0.22	0.22
PCB-002	2051-61-8	pg/g	1.16	U	0.22	0.22	0.88	UJ	0.079	0.079	1.82	U	0.22	0.22
PCB-003	2051-62-9	pg/g	0.84	UJ	0.25	0.25	1.1	UJ	0.097	0.097	1.7	UJ	0.22	0.22
PCB-004	13029-08-8	pg/g	3.38	M	0.82	0.82	3.63	M	0.630	0.630	7.35		1.40	1.40
PCB-005	16605-91-7	pg/g	ND	U	0.57	0.57	ND	U	0.410	0.410	ND	U	0.91	0.91
PCB-006	25569-80-6	pg/g	1.5	J	0.53	0.53	1.7	J	0.380	0.380	3.7	M,NJ	0.84	0.84
PCB-007	33284-50-3	pg/g	ND	U	0.53	0.53	ND	U	0.380	0.380	ND	U	0.84	0.84
PCB-008	34883-43-7	pg/g	5.71	M	0.50	0.50	5.5	M,NJ	0.360	0.360	17.1	M	0.79	0.79

Sample Code			5A				5B				5C			
Lab Sample ID			L2756294-22				L2756294-23				L2756294-24			
Analyte	CAS	Units	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL
PCB-009	34883-39-1	pg/g	ND	M,U	0.54	0.54	0.834	M,J	0.380	0.380	ND	U	0.85	0.85
PCB-010	33146-45-1	pg/g	ND	U	0.50	0.50	ND	U	0.360	0.360	ND	U	0.80	0.80
PCB-011	2050-67-1	pg/g	4.9	U	0.90	0.90	5.14	U	0.640	0.640	14.4	M	1.00	1.00
PCB-012+PCB-013	PCB12_13	pg/g	ND	U	0.87	0.87	ND	U	0.620	0.620	ND	U	0.99	0.99
PCB-014	34883-41-5	pg/g	ND	U	0.88	0.88	ND	U	0.620	0.620	ND	M,U	1.00	1.00
PCB-015	2050-68-2	pg/g	ND	U	1.00	1.00	ND	U	0.680	0.680	5.82	M	1.10	1.10
PCB-016	38444-78-9	pg/g	4.91		0.31	0.31	4.27	M	0.210	0.210	17.5		0.51	0.51
PCB-017	37680-66-3	pg/g	5.7	J	0.27	0.27	5.64		0.180	0.180	22.5		0.43	0.43
PCB-018+PCB-030	PCB18_30	pg/g	14.3		0.24	0.24	14.5		0.160	0.160	47.3		0.38	0.38
PCB-019	38444-73-4	pg/g	1.4	J	0.31	0.31	1.47	M,J	0.170	0.170	4.7	J	0.40	0.40
PCB-020+PCB-028	PCB20_28	pg/g	71.1		0.38	0.38	45.4		0.180	0.180	277		0.79	0.79
PCB-021+PCB-033	PCB21_33	pg/g	3.09		0.37	0.37	3.1	M	0.180	0.180	34		0.76	0.76
PCB-022	38444-85-8	pg/g	10.7	M	0.42	0.42	8.47		0.200	0.200	49.8		0.86	0.86
PCB-023	55720-44-0	pg/g	ND	U	0.38	0.38	ND	U	0.180	0.180	ND	U	0.77	0.77
PCB-024	55702-45-9	pg/g	0.3	J	0.21	0.21	0.27	J	0.140	0.140	ND	M,U	0.35	0.35
PCB-025	55712-37-3	pg/g	1.6	J	0.37	0.37	0.95	J	0.170	0.170	8.04		0.76	0.76

Sample Code			5A				5B				5C			
Lab Sample ID			L2756294-22				L2756294-23				L2756294-24			
Analyte	CAS	Units	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL
PCB-026+PCB-029	PCB26_29	pg/g	4	J	0.37	0.37	3.06		0.170	0.170	25.1		0.76	0.76
PCB-027	38444-76-7	pg/g	1.2	J	0.20	0.20	1.14	M,J	0.140	0.140	4	M	0.33	0.33
PCB-031	16606-02-3	pg/g	23.1		0.35	0.35	16.1		0.170	0.170	165		0.73	0.73
PCB-032	38444-77-8	pg/g	4.56		0.18	0.18	3.44		0.120	0.120	16		0.30	0.30
PCB-034	37680-68-5	pg/g	ND	U	0.39	0.39	ND	M,U	0.190	0.190	ND	M,U	0.81	0.81
PCB-035	37680-69-6	pg/g	ND	U	0.42	0.42	ND	U	0.200	0.200	ND	U	0.86	0.86
PCB-036	38444-87-0	pg/g	ND	M,U	0.34	0.34	ND	U	0.160	0.160	ND	U	0.70	0.70
PCB-037	38444-90-5	pg/g	0.78	J	0.44	0.44	0.63	J	0.220	0.220	20.2		0.84	0.84
PCB-038	53555-66-1	pg/g	ND	U	0.41	0.41	ND	U	0.190	0.190	ND	U	0.84	0.84
PCB-039	38444-88-1	pg/g	ND	U	0.42	0.42	0.239	M,J	0.200	0.200	1.8	J	0.86	0.86
PCB-040+PCB-041+PCB-071	PCB40_41_71	pg/g	11.1		0.15	0.15	8.99		0.250	0.250	89		0.31	0.31
PCB-042	36559-22-5	pg/g	22.8		0.17	0.17	12.8		0.290	0.290	106		0.36	0.36
PCB-043	70362-46-8	pg/g	2.79		0.16	0.16	1.8	J	0.270	0.270	3.7	M,NJ	0.33	0.33
PCB-044+PCB-047+PCB-065	PCB44_47_65	pg/g	99.1		0.13	0.13	67.2		0.220	0.220	436		0.27	0.27
PCB-045+PCB-051	PCB45_51	pg/g	4.6	J	0.15	0.15	3.8		0.260	0.260	31		0.32	0.32
PCB-046	41464-47-5	pg/g	0.57	J	0.17	0.17	0.9	J	0.290	0.290	7.03		0.35	0.35

Sample Code			5A				5B				5C			
Lab Sample ID			L2756294-22				L2756294-23				L2756294-24			
Analyte	CAS	Units	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL
PCB-048	70362-47-9	pg/g	7.79		0.15	0.15	5.55		0.260	0.260	77.1		0.32	0.32
PCB-049+PCB-069	PCB49_69	pg/g	87.4		0.12	0.12	56.8		0.210	0.210	365		0.26	0.26
PCB-050+PCB-053	PCB50_53	pg/g	2.2	J	0.14	0.14	2.18	J	0.250	0.250	19.7		0.30	0.30
PCB-052	35693-99-3	pg/g	183	M	0.15	0.15	145	M	0.260	0.260	894	M	0.33	0.33
PCB-054	15968-05-5	pg/g	ND	U	0.13	0.13	ND	U	0.074	0.074	ND	U	0.16	0.16
PCB-055	74338-24-2	pg/g	0.92	J	0.41	0.41	ND	U	0.460	0.460	ND	U	1.10	1.10
PCB-056	41464-43-1	pg/g	5.97		0.37	0.37	5.19		0.420	0.420	138		1.00	1.00
PCB-057	70424-67-8	pg/g	ND	U	0.41	0.41	ND	U	0.460	0.460	2.4	J	1.10	1.10
PCB-058	41464-49-7	pg/g	0.68	J	0.39	0.39	0.5	J	0.430	0.430	2.32	M,J	1.10	1.10
PCB-059+PCB-062+PCB-075	PCB59_62_75	pg/g	8.01		0.11	0.11	5.62		0.180	0.180	34.4		0.23	0.23
PCB-060	33025-41-1	pg/g	44.8		0.39	0.39	27.2		0.440	0.440	164		1.10	1.10
PCB-061+PCB-070+PCB-074+PCB-076	PCB61_70_74_76	pg/g	163		0.38	0.38	104		0.420	0.420	1330		1.00	1.00
PCB-063	74472-34-7	pg/g	7.56		0.38	0.38	5		0.420	0.420	29.5		1.00	1.00
PCB-064	52663-58-8	pg/g	59		0.11	0.11	36		0.190	0.190	231		0.23	0.23
PCB-066	32598-10-0	pg/g	164		0.37	0.37	104		0.410	0.410	562		1.00	1.00
PCB-067	73575-53-8	pg/g	0.61	J	0.34	0.34	ND	U	0.380	0.380	9.85		0.92	0.92

Sample Code			5A				5B				5C			
Lab Sample ID			L2756294-22				L2756294-23				L2756294-24			
Analyte	CAS	Units	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL
PCB-068	73575-52-7	pg/g	1.42	J	0.38	0.38	1.07	J	0.420	0.420	6.2		1.00	1.00
PCB-072	41464-42-0	pg/g	0.7	J	0.38	0.38	0.55	J	0.430	0.430	4.97		1.00	1.00
PCB-073	74338-23-1	pg/g	1.2	J	0.11	0.11	0.59	J	0.190	0.190	4.6	M,NJ	0.23	0.23
PCB-077	32598-13-3	pg/g	3.68	M	0.47	0.47	1.8	J	0.530	0.530	49.8		1.20	1.20
PCB-078	70362-49-1	pg/g	ND	U	0.43	0.43	ND	U	0.480	0.480	ND	U	1.20	1.20
PCB-079	41464-48-6	pg/g	2.15	J	0.34	0.34	1.3	J	0.380	0.380	12.7		0.92	0.92
PCB-080	33284-52-5	pg/g	ND	U	0.31	0.31	ND	U	0.350	0.350	ND	U	0.85	0.85
PCB-081	70362-50-4	pg/g	1.1	J	0.44	0.44	0.633	J	0.500	0.500	3.3	J	1.20	1.20
PCB-082	52663-62-4	pg/g	24		1.00	1.00	16.4		0.950	0.950	155		1.60	1.60
PCB-083+PCB-099	PCB83_99	pg/g	335	M	0.87	0.87	301		0.800	0.800	632		1.30	1.30
PCB-084	52663-60-2	pg/g	33.3		0.86	0.86	23.4		0.790	0.790	171		1.30	1.30
PCB-085+PCB-110+PCB-115+PCB-116+PCB-117	PCBCONGPK301	pg/g	524	M	0.63	0.63	424	M	0.580	0.580	2390	M	0.95	0.95
PCB-086+PCB-087+PCB-097+PCB-109+PCB-119+PCB-125	PCBCONGPK302	pg/g	238	M	0.64	0.64	190	M	0.590	0.590	1120	M	0.97	0.97
PCB-088+PCB-091	PCB88_91	pg/g	44.1		0.85	0.85	34.2		0.780	0.780	225		1.30	1.30
PCB-089	73575-57-2	pg/g	ND	U	1.10	1.10	ND	U	0.980	0.980	7.65		1.60	1.60

Sample Code			5A				5B				5C			
Lab Sample ID			L2756294-22				L2756294-23				L2756294-24			
Analyte	CAS	Units	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL
PCB-090+PCB-101+PCB-113	PCB90_101_113	pg/g	381		0.67	0.67	321		0.610	0.610	2150		1.00	1.00
PCB-092	52663-61-3	pg/g	87.4		0.92	0.92	78.6		0.840	0.840	384		1.40	1.40
PCB-093+PCB-098+PCB-100+PCB-102	PCBCONGPK303	pg/g	3.8	M,NJ	0.76	0.76	2.7	M,NJ	0.700	0.700	32.4	M	1.20	1.20
PCB-094	73575-55-0	pg/g	ND	U	0.87	0.87	ND	U	0.800	0.800	ND	U	1.30	1.30
PCB-095	38379-99-6	pg/g	176	M	1.00	1.00	136		0.960	0.960	1090	M	1.60	1.60
PCB-096	73575-54-9	pg/g	ND	M,U	0.32	0.32	0.25	J	0.200	0.200	3.5	J	0.34	0.34
PCB-103	60145-21-3	pg/g	1.9	J	0.82	0.82	1.83	J	0.750	0.750	7.4	J	1.20	1.20
PCB-104	56558-16-8	pg/g	ND	U	0.23	0.23	ND	U	0.140	0.140	0.34	J	0.27	0.27
PCB-105	32598-14-4	pg/g	186		3.20	3.20	145		4.600	4.600	778		11.00	11.00
PCB-106	70424-69-0	pg/g	ND	U	2.60	2.60	ND	U	3.900	3.900	ND	U	8.60	8.60
PCB-107	70424-68-9	pg/g	33.7	M	2.20	2.20	29.1	M	3.300	3.300	118	M	7.20	7.20
PCB-108+PCB-124	PCB108_124	pg/g	8.87	J	2.40	2.40	4.05	J	3.600	3.600	62	J	7.90	7.90
PCB-111	39635-32-0	pg/g	ND	U	0.57	0.57	ND	U	0.520	0.520	1.01	J	0.86	0.86
PCB-112	74472-36-9	pg/g	0.89	J	0.55	0.55	ND	U	0.500	0.500	ND	U	0.83	0.83
PCB-114	74472-37-0	pg/g	15.2	J	3.40	3.40	9.9	J	4.400	4.400	76.8		11.00	11.00
PCB-118	31508-00-6	pg/g	478	M	2.20	2.20	443	M	3.500	3.500	2170		7.10	7.10

Sample Code			5A				5B				5C			
Lab Sample ID			L2756294-22				L2756294-23				L2756294-24			
Analyte	CAS	Units	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL
PCB-120	68194-12-7	pg/g	1.64	J	0.54	0.54	1.3	J	0.500	0.500	6.2	M,NJ	0.82	0.82
PCB-121	56558-18-0	pg/g	0.61	J	0.58	0.58	0.59	J	0.530	0.530	3.25		0.88	0.88
PCB-122	76842-07-4	pg/g	7.1	J	3.20	3.20	ND	U	4.800	4.800	54.4		11.00	11.00
PCB-123	65510-44-3	pg/g	9.5	J	3.30	3.30	8.13	M,J	4.900	4.900	46.4	M	8.90	8.90
PCB-126	57465-28-8	pg/g	3.5	J	0.76	0.76	2.6	J	0.610	0.610	8.09		1.90	1.90
PCB-127	39635-33-1	pg/g	ND	U	2.60	2.60	ND	U	3.900	3.900	ND	U	8.50	8.50
PCB-128+PCB-166	PCB128_166	pg/g	96.3		2.40	2.40	78.3		6.200	6.200	338		8.00	8.00
PCB-129+PCB-138+PCB-163	PCB129_138_163	pg/g	850		2.70	2.70	696		6.900	6.900	2940		9.00	9.00
PCB-130	52663-66-8	pg/g	50.4		3.20	3.20	44.1		8.400	8.400	172		11.00	11.00
PCB-131	61798-70-7	pg/g	4.5	J	3.50	3.50	ND	U	9.200	9.200	21.4		12.00	12.00
PCB-132	38380-05-1	pg/g	120		3.10	3.10	61	J	8.100	8.100	526		11.00	11.00
PCB-133	35694-04-3	pg/g	11	J	3.00	3.00	7.9	J	7.800	7.800	47.1		10.00	10.00
PCB-134+PCB-143	PCB134_143	pg/g	21	J	3.30	3.30	13	J	8.700	8.700	56.6		11.00	11.00
PCB-135+PCB-151	PCB135_151	pg/g	89	M,NJ	1.30	1.30	94.5	M	2.700	2.700	407	M	5.50	5.50
PCB-136	38411-22-2	pg/g	9.5	J	1.10	1.10	6.79	J	2.100	2.100	102		4.30	4.30

Sample Code			5A				5B				5C			
Lab Sample ID			L2756294-22				L2756294-23				L2756294-24			
Analyte	CAS	Units	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL
PCB-137+PCB-164	PCB137_164	pg/g	80.7	M	2.40	2.40	63.4	M	6.100	6.100	276	M	7.90	7.90
PCB-139+PCB-140	PCB139_140	pg/g	9.2	J	2.60	2.60	ND	U	6.600	6.600	36.9		8.70	8.70
PCB-141	52712-04-6	pg/g	116		2.60	2.60	87	J	6.800	6.800	437		8.80	8.80
PCB-142	41411-61-4	pg/g	ND	U	3.20	3.20	ND	U	8.400	8.400	ND	U	11.00	11.00
PCB-144	68194-14-9	pg/g	14	J	1.40	1.40	12	J	2.900	2.900	88.3		5.90	5.90
PCB-145	74472-40-5	pg/g	ND	U	1.00	1.00	ND	U	2.000	2.000	ND	U	4.10	4.10
PCB-146	51908-16-8	pg/g	120		2.40	2.40	84		6.300	6.300	387		8.20	8.20
PCB-147+PCB-149	PCB147_149	pg/g	339		2.70	2.70	233		7.000	7.000	1350		9.20	9.20
PCB-148	74472-41-6	pg/g	ND	U	1.40	1.40	ND	U	2.800	2.800	ND	U	5.70	5.70
PCB-150	68194-08-1	pg/g	ND	U	0.94	0.94	ND	U	1.900	1.900	ND	U	3.80	3.80
PCB-152	68194-09-2	pg/g	ND	U	1.10	1.10	ND	U	2.100	2.100	ND	U	4.30	4.30
PCB-153+PCB-168	PCB153_168	pg/g	713		2.20	2.20	580		5.600	5.600	2450		7.30	7.30
PCB-154	60145-22-4	pg/g	6.02	M,J	1.20	1.20	6.71	M,J	2.400	2.400	22.6	M	4.80	4.80
PCB-155	33979-03-2	pg/g	2.89	J	0.39	0.39	ND	U	0.930	0.930	12	J	2.10	2.10
PCB-156+PCB-157	PCB156_157	pg/g	66	J	3.20	3.20	56	J	7.200	7.200	282		10.00	10.00
PCB-158	74472-42-7	pg/g	71.9		1.80	1.80	55.8		4.700	4.700	254		6.10	6.10

Sample Code			5A				5B				5C			
Lab Sample ID			L2756294-22				L2756294-23				L2756294-24			
Analyte	CAS	Units	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL
PCB-159	39635-35-3	pg/g	ND	U	2.00	2.00	ND	U	5.300	5.300	8.3	J	6.90	6.90
PCB-160	41411-62-5	pg/g	ND	U	2.30	2.30	ND	U	5.900	5.900	ND	U	7.60	7.60
PCB-161	74472-43-8	pg/g	ND	U	2.00	2.00	ND	U	5.200	5.200	ND	U	6.80	6.80
PCB-162	39635-34-2	pg/g	3.15	J	2.20	2.20	ND	U	5.600	5.600	ND	U	7.30	7.30
PCB-165	74472-46-1	pg/g	ND	U	2.30	2.30	ND	U	5.900	5.900	ND	U	7.70	7.70
PCB-167	52663-72-6	pg/g	28.2		2.10	2.10	24.4		5.300	5.300	120		6.30	6.30
PCB-169	32774-16-6	pg/g	1.7	J	0.47	0.47	1.2	J	0.320	0.320	5.2	J	1.70	1.70
PCB-170	35065-30-6	pg/g	90		1.40	1.40	95.1		2.800	2.800	424		4.10	4.10
PCB-171+PCB-173	PCB171_173	pg/g	32	J	1.40	1.40	36	J	2.600	2.600	131		3.90	3.90
PCB-172	52663-74-8	pg/g	19	J	1.40	1.40	26.5		2.600	2.600	103		3.90	3.90
PCB-174	38411-25-5	pg/g	78.9		1.20	1.20	79.6		2.300	2.300	318		3.40	3.40
PCB-175	40186-70-7	pg/g	3.97	J	1.30	1.30	5.2	J	2.400	2.400	21	J	3.60	3.60
PCB-176	52663-65-7	pg/g	5	J	0.91	0.91	3.8	J	1.700	1.700	34.8		2.60	2.60
PCB-177	52663-70-4	pg/g	48.1		1.30	1.30	45.2		2.500	2.500	218		3.70	3.70
PCB-178	52663-67-9	pg/g	27.2		1.30	1.30	26.2		2.500	2.500	98.9		3.80	3.80
PCB-179	52663-64-6	pg/g	19.2		0.90	0.90	14	J	1.700	1.700	76.4		2.60	2.60

Sample Code			5A				5B				5C			
Lab Sample ID			L2756294-22				L2756294-23				L2756294-24			
Analyte	CAS	Units	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL
PCB-180+PCB-193	PCB180_193	pg/g	286		1.10	1.10	350		2.200	2.200	1470		3.20	3.20
PCB-181	74472-47-2	pg/g	ND	U	1.30	1.30	ND	U	2.600	2.600	7.57	J	3.80	3.80
PCB-182	60145-23-5	pg/g	ND	U	1.10	1.10	ND	U	2.200	2.200	ND	U	3.30	3.30
PCB-183	52663-69-1	pg/g	74.8		1.20	1.20	69.1		2.300	2.300	317		3.40	3.40
PCB-184	74472-48-3	pg/g	3.2	J	0.86	0.86	3	J	1.700	1.700	18.7		2.50	2.50
PCB-185	52712-05-7	pg/g	13	J	1.40	1.40	8.2	J	2.600	2.600	38		3.90	3.90
PCB-186	74472-49-4	pg/g	ND	U	0.97	0.97	ND	U	1.900	1.900	ND	U	2.80	2.80
PCB-187	52663-68-0	pg/g	221		1.20	1.20	229		2.300	2.300	739		3.40	3.40
PCB-188	74487-85-7	pg/g	ND	U	0.69	0.69	ND	U	1.500	1.500	ND	U	2.00	2.00
PCB-189	39635-31-9	pg/g	4.03	M,J	0.79	0.79	3.67	M,J	1.700	1.700	21	J	4.50	4.50
PCB-190	41411-64-7	pg/g	20	J	0.96	0.96	22.3		1.800	1.800	95.9		2.70	2.70
PCB-191	74472-50-7	pg/g	1.4	J	0.99	0.99	7.09	J	1.900	1.900	18	J	2.80	2.80
PCB-192	74472-51-8	pg/g	ND	U	1.20	1.20	ND	U	2.200	2.200	ND	U	3.30	3.30
PCB-194	35694-08-7	pg/g	57		0.93	0.93	57.9		1.600	1.600	203		2.40	2.40
PCB-195	52663-78-2	pg/g	16.7	J	0.96	0.96	14	J	1.700	1.700	45		2.50	2.50
PCB-196	42740-50-1	pg/g	25.5		1.00	1.00	19	J	1.600	1.600	97		2.40	2.40

Sample Code			5A				5B				5C			
Lab Sample ID			L2756294-22				L2756294-23				L2756294-24			
Analyte	CAS	Units	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL
PCB-197	33091-17-7	pg/g	1.9	J	0.73	0.73	1.8	J	1.100	1.100	9.29	J	1.70	1.70
PCB-198+PCB-199	PCB198_199	pg/g	77.7		1.10	1.10	71.8		1.700	1.700	274		2.40	2.40
PCB-200	52663-73-7	pg/g	4.2	J	0.74	0.74	2.31	J	1.100	1.100	19.5		1.70	1.70
PCB-201	40186-71-8	pg/g	5.9	J	0.67	0.67	8.23	J	1.000	1.000	15	J	1.50	1.50
PCB-202	2136-99-4	pg/g	12.1	J	0.60	0.60	7.1	J	0.930	0.930	30.8		1.30	1.30
PCB-203	52663-76-0	pg/g	51.7		0.98	0.98	43.1		1.500	1.500	161		2.20	2.20
PCB-204	74472-52-9	pg/g	ND	U	0.69	0.69	ND	U	1.100	1.100	ND	U	1.60	1.60
PCB-205	74472-53-0	pg/g	3.48	J	0.82	0.82	2.5	J	1.400	1.400	7.96	J	2.40	2.40
PCB-206	40186-72-9	pg/g	19	J	1.80	1.80	24	J	2.800	2.800	65	J	4.80	4.80
PCB-207	52663-79-3	pg/g	1.1	J	1.00	1.00	2.63	M,J	1.600	1.600	12	J	3.00	3.00
PCB-208	52663-77-1	pg/g	6.4	J	0.97	0.97	6.6	M,J	1.600	1.600	20	M	3.00	3.00
PCB-209	2051-24-3	pg/g	7.31	J	0.50	0.50	9.35	J	0.590	0.590	21	J	2.40	2.40
Total PCBs	1336-36-3	pg/g	7710	J	0.00	0.00	6400	J	0.000	0.000	32500	J	0.00	0.00

Sample Code			5D			
Lab Sample ID			L2756294-25			
Analyte	CAS	Units	Result	Qualifier	MDL	RL
PCB-001	2051-60-7	pg/g	1.18	U	0.14	0.14
PCB-002	2051-61-8	pg/g	1.95	U	0.15	0.15
PCB-003	2051-62-9	pg/g	1.4	UJ	0.17	0.17
PCB-004	13029-08-8	pg/g	4.68	M	1.20	1.20
PCB-005	16605-91-7	pg/g	ND	U	0.79	0.79
PCB-006	25569-80-6	pg/g	2.4	J	0.72	0.72
PCB-007	33284-50-3	pg/g	ND	U	0.72	0.72
PCB-008	34883-43-7	pg/g	11.7	M	0.68	0.68
PCB-009	34883-39-1	pg/g	ND	M,U	0.73	0.73
PCB-010	33146-45-1	pg/g	ND	U	0.69	0.69
PCB-011	2050-67-1	pg/g	7.48	U	0.92	0.92
PCB-012+PCB-013	PCB12_13	pg/g	ND	U	0.90	0.90
PCB-014	34883-41-5	pg/g	ND	U	0.90	0.90
PCB-015	2050-68-2	pg/g	4.1	M,NJ	1.00	1.00
PCB-016	38444-78-9	pg/g	11.2	M	0.47	0.47
PCB-017	37680-66-3	pg/g	14.3		0.40	0.40

Sample Code			5D			
Lab Sample ID			L2756294-25			
Analyte	CAS	Units	Result	Qualifier	MDL	RL
PCB-018+PCB-030	PCB18_30	pg/g	32.7		0.36	0.36
PCB-019	38444-73-4	pg/g	2.91		0.40	0.40
PCB-020+PCB-028	PCB20_28	pg/g	79.7		0.47	0.47
PCB-021+PCB-033	PCB21_33	pg/g	22.3		0.45	0.45
PCB-022	38444-85-8	pg/g	16.9		0.51	0.51
PCB-023	55720-44-0	pg/g	ND	U	0.46	0.46
PCB-024	55702-45-9	pg/g	0.57	J	0.32	0.32
PCB-025	55712-37-3	pg/g	3.04		0.45	0.45
PCB-026+PCB-029	PCB26_29	pg/g	8.11		0.45	0.45
PCB-027	38444-76-7	pg/g	2.74		0.31	0.31
PCB-031	16606-02-3	pg/g	48.5		0.43	0.43
PCB-032	38444-77-8	pg/g	6.67		0.28	0.28
PCB-034	37680-68-5	pg/g	ND	U	0.48	0.48
PCB-035	37680-69-6	pg/g	ND	U	0.51	0.51
PCB-036	38444-87-0	pg/g	1.79	J	0.41	0.41
PCB-037	38444-90-5	pg/g	11.6	M	0.52	0.52

Sample Code			5D			
Lab Sample ID			L2756294-25			
Analyte	CAS	Units	Result	Qualifier	MDL	RL
PCB-038	53555-66-1	pg/g	ND	U	0.50	0.50
PCB-039	38444-88-1	pg/g	0.57	J	0.51	0.51
PCB-040+PCB-041+PCB-071	PCB40_41_71	pg/g	39.5		0.34	0.34
PCB-042	36559-22-5	pg/g	26.8		0.39	0.39
PCB-043	70362-46-8	pg/g	4.14	M	0.36	0.36
PCB-044+PCB-047+PCB-065	PCB44_47_65	pg/g	121		0.30	0.30
PCB-045+PCB-051	PCB45_51	pg/g	9.02		0.35	0.35
PCB-046	41464-47-5	pg/g	2.6		0.38	0.38
PCB-048	70362-47-9	pg/g	22.3		0.34	0.34
PCB-049+PCB-069	PCB49_69	pg/g	80.2		0.29	0.29
PCB-050+PCB-053	PCB50_53	pg/g	9.9		0.33	0.33
PCB-052	35693-99-3	pg/g	269	M	0.36	0.36
PCB-054	15968-05-5	pg/g	ND	U	0.17	0.17
PCB-055	74338-24-2	pg/g	ND	U	0.40	0.40
PCB-056	41464-43-1	pg/g	21.6		0.36	0.36
PCB-057	70424-67-8	pg/g	ND	U	0.39	0.39

Sample Code			5D			
Lab Sample ID			L2756294-25			
Analyte	CAS	Units	Result	Qualifier	MDL	RL
PCB-058	41464-49-7	pg/g	0.597	M,J	0.37	0.37
PCB-059+PCB-062+PCB-075	PCB59_62_75	pg/g	8.2	J	0.25	0.25
PCB-060	33025-41-1	pg/g	24		0.38	0.38
PCB-061+PCB-070+PCB-074+PCB-076	PCB61_70_74_76	pg/g	220		0.36	0.36
PCB-063	74472-34-7	pg/g	4.2	J	0.36	0.36
PCB-064	52663-58-8	pg/g	55.7		0.26	0.26
PCB-066	32598-10-0	pg/g	90.9		0.35	0.35
PCB-067	73575-53-8	pg/g	1.5	J	0.33	0.33
PCB-068	73575-52-7	pg/g	1.16	M,J	0.36	0.36
PCB-072	41464-42-0	pg/g	1.25	J	0.37	0.37
PCB-073	74338-23-1	pg/g	1.4	J	0.25	0.25
PCB-077	32598-13-3	pg/g	9.6	J	0.45	0.45
PCB-078	70362-49-1	pg/g	ND	U	0.42	0.42
PCB-079	41464-48-6	pg/g	2.44	J	0.33	0.33
PCB-080	33284-52-5	pg/g	ND	U	0.30	0.30
PCB-081	70362-50-4	pg/g	ND	U	0.40	0.40

Sample Code			5D			
Lab Sample ID			L2756294-25			
Analyte	CAS	Units	Result	Qualifier	MDL	RL
PCB-082	52663-62-4	pg/g	37.3	M	0.82	0.82
PCB-083+PCB-099	PCB83_99	pg/g	263		0.69	0.69
PCB-084	52663-60-2	pg/g	60.9		0.68	0.68
PCB-085+PCB-110+PCB-115+PCB-116+PCB-117	PCBCONGPK301	pg/g	474	M	0.50	0.50
PCB-086+PCB-087+PCB-097+PCB-109+PCB-119+PCB-125	PCBCONGPK302	pg/g	229	M	0.51	0.51
PCB-088+PCB-091	PCB88_91	pg/g	41.1		0.68	0.68
PCB-089	73575-57-2	pg/g	1.6	J	0.85	0.85
PCB-090+PCB-101+PCB-113	PCB90_101_113	pg/g	408		0.53	0.53
PCB-092	52663-61-3	pg/g	74.1		0.73	0.73
PCB-093+PCB-098+PCB-100+PCB-102	PCBCONGPK303	pg/g	9.29	M	0.61	0.61
PCB-094	73575-55-0	pg/g	1.17	M,J	0.69	0.69
PCB-095	38379-99-6	pg/g	293	M	0.83	0.83
PCB-096	73575-54-9	pg/g	1.88	J	0.30	0.30
PCB-103	60145-21-3	pg/g	2.09	J	0.65	0.65
PCB-104	56558-16-8	pg/g	ND	U	0.24	0.24

Sample Code			5D			
Lab Sample ID			L2756294-25			
Analyte	CAS	Units	Result	Qualifier	MDL	RL
PCB-105	32598-14-4	pg/g	127		0.66	0.66
PCB-106	70424-69-0	pg/g	ND	U	0.63	0.63
PCB-107	70424-68-9	pg/g	24.4	M	0.49	0.49
PCB-108+PCB-124	PCB108_124	pg/g	14.8		0.58	0.58
PCB-111	39635-32-0	pg/g	0.51	J	0.45	0.45
PCB-112	74472-36-9	pg/g	ND	U	0.44	0.44
PCB-114	74472-37-0	pg/g	9.46		0.66	0.66
PCB-118	31508-00-6	pg/g	381		0.54	0.54
PCB-120	68194-12-7	pg/g	2.6	M,NJ	0.43	0.43
PCB-121	56558-18-0	pg/g	0.55	J	0.46	0.46
PCB-122	76842-07-4	pg/g	4.26		0.72	0.72
PCB-123	65510-44-3	pg/g	5.93	M	0.62	0.62
PCB-126	57465-28-8	pg/g	1.7	J	0.75	0.75
PCB-127	39635-33-1	pg/g	ND	U	0.58	0.58
PCB-128+PCB-166	PCB128_166	pg/g	54.7		0.50	0.50
PCB-129+PCB-138+PCB-163	PCB129_138_163	pg/g	640	M	0.69	0.69

Sample Code			5D			
Lab Sample ID			L2756294-25			
Analyte	CAS	Units	Result	Qualifier	MDL	RL
PCB-130	52663-66-8	pg/g	32.3		0.70	0.70
PCB-131	61798-70-7	pg/g	5.95		0.77	0.77
PCB-132	38380-05-1	pg/g	108		0.67	0.67
PCB-133	35694-04-3	pg/g	8.84		0.66	0.66
PCB-134+PCB-143	PCB134_143	pg/g	18.8		0.73	0.73
PCB-135+PCB-151	PCB135_151	pg/g	108	M	0.28	0.28
PCB-136	38411-22-2	pg/g	35		0.22	0.22
PCB-137+PCB-164	PCB137_164	pg/g	54.3	M	0.50	0.50
PCB-139+PCB-140	PCB139_140	pg/g	7.91		0.57	0.57
PCB-141	52712-04-6	pg/g	75.6		0.59	0.59
PCB-142	41411-61-4	pg/g	ND	U	0.72	0.72
PCB-144	68194-14-9	pg/g	19.5		0.29	0.29
PCB-145	74472-40-5	pg/g	ND	U	0.22	0.22
PCB-146	51908-16-8	pg/g	73.5		0.54	0.54
PCB-147+PCB-149	PCB147_149	pg/g	300		0.59	0.59
PCB-148	74472-41-6	pg/g	0.74	J	0.28	0.28

Sample Code			5D			
Lab Sample ID			L2756294-25			
Analyte	CAS	Units	Result	Qualifier	MDL	RL
PCB-150	68194-08-1	pg/g	0.538	J	0.19	0.19
PCB-152	68194-09-2	pg/g	ND	M,U	0.24	0.24
PCB-153+PCB-168	PCB153_168	pg/g	487		0.48	0.48
PCB-154	60145-22-4	pg/g	2.33	M,J	0.23	0.23
PCB-155	33979-03-2	pg/g	3.01		0.12	0.12
PCB-156+PCB-157	PCB156_157	pg/g	48.1		0.57	0.57
PCB-158	74472-42-7	pg/g	44.4		0.37	0.37
PCB-159	39635-35-3	pg/g	2.63		0.42	0.42
PCB-160	41411-62-5	pg/g	5.9	M,NJ	0.34	0.34
PCB-161	74472-43-8	pg/g	ND	U	0.45	0.45
PCB-162	39635-34-2	pg/g	1.8	J	0.44	0.44
PCB-165	74472-46-1	pg/g	0.56	J	0.51	0.51
PCB-167	52663-72-6	pg/g	20		0.37	0.37
PCB-169	32774-16-6	pg/g	1.4	J	0.49	0.49
PCB-170	35065-30-6	pg/g	62.1		0.27	0.27
PCB-171+PCB-173	PCB171_173	pg/g	14.3		0.29	0.29

Sample Code			5D			
Lab Sample ID			L2756294-25			
Analyte	CAS	Units	Result	Qualifier	MDL	RL
PCB-172	52663-74-8	pg/g	18.8		0.28	0.28
PCB-174	38411-25-5	pg/g	72.4		0.26	0.26
PCB-175	40186-70-7	pg/g	4.4	J	0.28	0.28
PCB-176	52663-65-7	pg/g	8.15		0.21	0.21
PCB-177	52663-70-4	pg/g	45.7		0.28	0.28
PCB-178	52663-67-9	pg/g	26.8		0.30	0.30
PCB-179	52663-64-6	pg/g	26.7		0.21	0.21
PCB-180+PCB-193	PCB180_193	pg/g	215		0.23	0.23
PCB-181	74472-47-2	pg/g	0.62	J	0.29	0.29
PCB-182	60145-23-5	pg/g	1	J	0.26	0.26
PCB-183	52663-69-1	pg/g	65.1		0.27	0.27
PCB-184	74472-48-3	pg/g	3.6	J	0.20	0.20
PCB-185	52712-05-7	pg/g	8.79		0.30	0.30
PCB-186	74472-49-4	pg/g	ND	U	0.22	0.22
PCB-187	52663-68-0	pg/g	159	M	0.26	0.26
PCB-188	74487-85-7	pg/g	0.446	J	0.17	0.17

Sample Code			5D			
Lab Sample ID			L2756294-25			
Analyte	CAS	Units	Result	Qualifier	MDL	RL
PCB-189	39635-31-9	pg/g	3.72		0.15	0.15
PCB-190	41411-64-7	pg/g	16.2		0.18	0.18
PCB-191	74472-50-7	pg/g	3.3	J	0.20	0.20
PCB-192	74472-51-8	pg/g	ND	U	0.23	0.23
PCB-194	35694-08-7	pg/g	31.2		0.15	0.15
PCB-195	52663-78-2	pg/g	7.4	J	0.14	0.14
PCB-196	42740-50-1	pg/g	17		0.16	0.16
PCB-197	33091-17-7	pg/g	1.6	J	0.13	0.13
PCB-198+PCB-199	PCB198_199	pg/g	52.8		0.17	0.17
PCB-200	52663-73-7	pg/g	3.77		0.13	0.13
PCB-201	40186-71-8	pg/g	5.2	J	0.12	0.12
PCB-202	2136-99-4	pg/g	9.15		0.11	0.11
PCB-203	52663-76-0	pg/g	34		0.16	0.16
PCB-204	74472-52-9	pg/g	ND	U	0.12	0.12
PCB-205	74472-53-0	pg/g	1.99	J	0.15	0.15
PCB-206	40186-72-9	pg/g	17.1		0.41	0.41

Sample Code			5D			
Lab Sample ID			L2756294-25			
Analyte	CAS	Units	Result	Qualifier	MDL	RL
PCB-207	52663-79-3	pg/g	2.5	J	0.26	0.26
PCB-208	52663-77-1	pg/g	6.25		0.24	0.24
PCB-209	2051-24-3	pg/g	5.54		0.14	0.14
Total PCBs	1336-36-3	pg/g	6910	J	0.00	0.00

- B Indicates that the analyte was detected in the blank at greater than 10% of the sample concentration.
J Indicates that the analyte was positively identified. The associated numerical result is an estimate.
M Indicates that a peak has been manually integrated.
NJ Indicates that the analyte has been "tentatively identified" or "presumptively identified" as present, and the associated numerical value was the estimated concentration in the sample.
U Indicates that this compound was not detected above the EDL.
UJ Indicates that the analyte was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.

APPENDIX E

Analytical Results – OC Pesticides

Table E1. Organochlorine Pesticides Concentrations in San Juan River Fish Fillets (µg/g, wet weight)*(Table E1 is continued on the following pages)*

Sample Code			1A				1B				1C			
Lab Sample ID			180-175878-21				180-175878-7				180-175878-4			
Analyte	CAS	Units	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL
2,4'-DDD	53-19-0	ug/Kg	ND	UJ	0.049	0.082	ND	U	1.00	1.7	ND	U	0.99	1.7
2,4'-DDE	3424-82-6	ug/Kg	ND	UJ	0.050	0.082	ND	UJ	1.00	1.7	ND	UJ	1.00	1.7
2,4'-DDT	789-02-6	ug/Kg	ND	UJ	0.032	0.082	ND	U	0.65	1.7	ND	U	0.65	1.7
4,4'-DDD	72-54-8	ug/Kg	0.18	J	0.017	0.082	ND	U	0.35	1.7	ND	U	0.35	1.7
4,4'-DDE	72-55-9	ug/Kg	0.46	J	0.017	0.082	ND	U	0.34	1.7	ND	U	0.34	1.7
4,4'-DDT	50-29-3	ug/Kg	ND	UJ	0.059	0.082	ND	U	1.20	1.7	ND	U	1.20	1.7
Aldrin	309-00-2	ug/Kg	ND	UJ	0.026	0.082	9.6		0.52	1.7	11	J	0.51	1.7
Dieldrin	60-57-1	ug/Kg	ND	UJ	0.021	0.082	ND	U	0.42	1.7	ND	U	0.42	1.7
Endosulfan I	959-98-8	ug/Kg	ND	UJ	0.022	0.082	ND	U	0.45	1.7	ND	U	0.45	1.7
Endosulfan II	33213-65-9	ug/Kg	ND	UJ	0.018	0.082	ND	U	0.37	1.7	ND	U	0.37	1.7
Endosulfan sulfate	1031-07-8	ug/Kg	ND	UJ	0.038	0.082	ND	U	0.77	1.7	ND	U	0.76	1.7
Endrin	72-20-8	ug/Kg	ND	UJ	0.015	0.082	ND	U	0.31	1.7	ND	U	0.31	1.7
Endrin aldehyde	7421-93-4	ug/Kg	ND	UJ	0.029	0.082	ND	U	0.60	1.7	ND	U	0.59	1.7
Endrin ketone	53494-70-5	ug/Kg	ND	UJ	0.033	0.082	ND	U	0.68	1.7	ND	U	0.67	1.7

Sample Code			1A				1B				1C			
Lab Sample ID			180-175878-21				180-175878-7				180-175878-4			
Analyte	CAS	Units	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL
Heptachlor	76-44-8	ug/Kg	ND	UJ	0.026	0.082	ND	U	0.52	1.7	ND	U	0.52	1.7
Heptachlor epoxide	1024-57-3	ug/Kg	ND	UJ	0.021	0.082	ND	U	0.43	1.7	ND	U	0.42	1.7
Methoxychlor	72-43-5	ug/Kg	ND	UJ	0.032	0.160	ND	U	0.65	3.3	ND	U	0.65	3.3
Total Chlordane		ug/Kg	ND				ND				ND			
Total DDT		ug/Kg	0.64				ND				ND			
Toxaphene	8001-35-2	ug/Kg	ND	UJ	2.200	3.300	ND	U	45.00	67.0	ND	U	45.00	66.0
alpha-BHC	319-84-6	ug/Kg	0.68	J	0.020	0.082	ND	U	0.41	1.7	ND	U	0.41	1.7
alpha-Chlordane	5103-71-9	ug/Kg	ND	UJ	0.021	0.082	ND	U	0.42	1.7	ND	U	0.42	1.7
beta-BHC	319-85-7	ug/Kg	ND	UJ	0.023	0.082	ND	U	0.46	1.7	ND	U	0.45	1.7
cis-Nonachlor	5103-73-1	ug/Kg	ND	UJ	0.026	0.082	ND	U	0.53	1.7	ND	U	0.53	1.7
delta-BHC	319-86-8	ug/Kg	ND	UJ	0.026	0.082	6.4	J	0.53	1.7	4	J	0.52	1.7
gamma-BHC (Lindane)	58-89-9	ug/Kg	ND	UJ	0.021	0.082	ND	U	0.43	1.7	ND	U	0.43	1.7
gamma-Chlordane	5103-74-2	ug/Kg	ND	UJ	0.019	0.082	ND	U	0.39	1.7	ND	U	0.39	1.7
oxy-Chlordane	27304-13-8	ug/Kg	ND	UJ	0.034	0.082	ND	U	0.69	1.7	ND	U	0.68	1.7
trans-Nonachlor	39765-80-5	ug/Kg	ND	UJ	0.038	0.082	ND	U	0.76	1.7	ND	U	0.76	1.7

Sample Code			1D				2A				2B			
Lab Sample ID			180-175878-19				180-175878-17				180-175878-10			
Analyte	CAS	Units	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL
2,4'-DDD	53-19-0	ug/Kg	ND	U	0.99	1.6	ND	U	0.99	1.7	ND	U	0.99	1.6
2,4'-DDE	3424-82-6	ug/Kg	ND	UJ	1.00	1.6	ND	UJ	1.00	1.7	ND	UJ	1.00	1.6
2,4'-DDT	789-02-6	ug/Kg	ND	U	0.64	1.6	ND	U	0.65	1.7	ND	U	0.64	1.6
4,4'-DDD	72-54-8	ug/Kg	ND	U	0.35	1.6	ND	U	0.35	1.7	ND	U	0.35	1.6
4,4'-DDE	72-55-9	ug/Kg	ND	U	0.34	1.6	ND	U	0.34	1.7	ND	U	0.34	1.6
4,4'-DDT	50-29-3	ug/Kg	ND	U	1.20	1.6	ND	U	1.20	1.7	ND	U	1.20	1.6
Aldrin	309-00-2	ug/Kg	ND	U	0.51	1.6	ND	U	0.51	1.7	2.9	J	0.51	1.6
Dieldrin	60-57-1	ug/Kg	ND	U	0.41	1.6	ND	U	0.42	1.7	ND	U	0.41	1.6
Endosulfan I	959-98-8	ug/Kg	ND	U	0.45	1.6	ND	U	0.45	1.7	ND	U	0.45	1.6
Endosulfan II	33213-65-9	ug/Kg	ND	U	0.36	1.6	ND	U	0.37	1.7	ND	U	0.36	1.6
Endosulfan sulfate	1031-07-8	ug/Kg	ND	U	0.76	1.6	ND	U	0.76	1.7	ND	U	0.76	1.6
Endrin	72-20-8	ug/Kg	ND	U	0.31	1.6	ND	U	0.31	1.7	ND	U	0.31	1.6
Endrin aldehyde	7421-93-4	ug/Kg	ND	U	0.59	1.6	ND	U	0.59	1.7	ND	U	0.59	1.6
Endrin ketone	53494-70-5	ug/Kg	ND	U	0.67	1.6	ND	U	0.67	1.7	ND	U	0.67	1.6
Heptachlor	76-44-8	ug/Kg	7.1	J	0.52	1.6	ND	U	0.52	1.7	ND	U	0.52	1.6
Heptachlor epoxide	1024-57-3	ug/Kg	ND	U	0.42	1.6	ND	U	0.42	1.7	ND	U	0.42	1.6

Sample Code			1D				2A				2B			
Lab Sample ID			180-175878-19				180-175878-17				180-175878-10			
Analyte	CAS	Units	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL
Methoxychlor	72-43-5	ug/Kg	ND	U	0.64	3.3	ND	U	0.65	3.3	ND	U	0.64	3.3
Total Chlordane		ug/Kg	ND				ND				ND			
Total DDT		ug/Kg	ND				ND				ND			
Toxaphene	8001-35-2	ug/Kg	ND	U	45.00	66.0	ND	U	45.00	66.0	ND	U	45.00	66.0
alpha-BHC	319-84-6	ug/Kg	ND	U	0.40	1.6	ND	U	0.41	1.7	ND	U	0.40	1.6
alpha-Chlordane	5103-71-9	ug/Kg	ND	U	0.41	1.6	ND	U	0.42	1.7	ND	U	0.41	1.6
beta-BHC	319-85-7	ug/Kg	ND	U	0.45	1.6	ND	U	0.45	1.7	ND	U	0.45	1.6
cis-Nonachlor	5103-73-1	ug/Kg	ND	U	0.52	1.6	ND	U	0.53	1.7	ND	U	0.52	1.6
delta-BHC	319-86-8	ug/Kg	ND	U	0.52	1.6	ND	U	0.52	1.7	ND	U	0.52	1.6
gamma-BHC (Lindane)	58-89-9	ug/Kg	ND	U	0.42	1.6	ND	U	0.43	1.7	ND	U	0.42	1.6
gamma-Chlordane	5103-74-2	ug/Kg	ND	U	0.38	1.6	ND	U	0.39	1.7	ND	U	0.38	1.6
oxy-Chlordane	27304-13-8	ug/Kg	ND	U	0.68	1.6	ND	U	0.68	1.7	ND	U	0.68	1.6
trans-Nonachlor	39765-80-5	ug/Kg	ND	U	0.75	1.6	ND	U	0.76	1.7	ND	U	0.75	1.6

Sample Code			2C				2D				3A			
Lab Sample ID			180-175878-15				180-175878-5				180-175878-9			
Analyte	CAS	Units	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL
2,4'-DDD	53-19-0	ug/Kg	ND	U	0.97	1.6	ND	U	0.97	1.6	ND	U	0.99	1.7
2,4'-DDE	3424-82-6	ug/Kg	ND	UJ	0.99	1.6	ND	UJ	0.99	1.6	ND	UJ	1.00	1.7
2,4'-DDT	789-02-6	ug/Kg	ND	U	0.64	1.6	ND	U	0.64	1.6	ND	U	0.65	1.7
4,4'-DDD	72-54-8	ug/Kg	ND	U	0.34	1.6	ND	U	0.34	1.6	ND	U	0.35	1.7
4,4'-DDE	72-55-9	ug/Kg	ND	U	0.33	1.6	ND	U	0.33	1.6	24		0.34	1.7
4,4'-DDT	50-29-3	ug/Kg	ND	U	1.20	1.6	ND	U	1.20	1.6	ND	U	1.20	1.7
Aldrin	309-00-2	ug/Kg	8		0.50	1.6	11		0.50	1.6	ND	U	0.51	1.7
Dieldrin	60-57-1	ug/Kg	ND	U	0.41	1.6	ND	U	0.41	1.6	ND	U	0.42	1.7
Endosulfan I	959-98-8	ug/Kg	ND	U	0.44	1.6	ND	U	0.44	1.6	ND	U	0.45	1.7
Endosulfan II	33213-65-9	ug/Kg	ND	U	0.36	1.6	ND	U	0.36	1.6	ND	U	0.37	1.7
Endosulfan sulfate	1031-07-8	ug/Kg	ND	U	0.75	1.6	ND	U	0.75	1.6	ND	U	0.76	1.7
Endrin	72-20-8	ug/Kg	ND	U	0.31	1.6	ND	U	0.31	1.6	ND	U	0.31	1.7
Endrin aldehyde	7421-93-4	ug/Kg	ND	U	0.58	1.6	ND	U	0.58	1.6	ND	U	0.59	1.7
Endrin ketone	53494-70-5	ug/Kg	ND	U	0.66	1.6	ND	U	0.66	1.6	ND	U	0.67	1.7
Heptachlor	76-44-8	ug/Kg	ND	U	0.51	1.6	ND	U	0.51	1.6	ND	U	0.52	1.7
Heptachlor epoxide	1024-57-3	ug/Kg	ND	U	0.41	1.6	ND	U	0.41	1.6	ND	U	0.42	1.7

Sample Code			2C				2D				3A			
Lab Sample ID			180-175878-15				180-175878-5				180-175878-9			
Analyte	CAS	Units	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL
Methoxychlor	72-43-5	ug/Kg	ND	U	0.63	3.2	ND	U	0.63	3.2	ND	U	0.65	3.3
Total Chlordane		ug/Kg	ND				ND				ND			
Total DDT		ug/Kg	ND				ND				24			
Toxaphene	8001-35-2	ug/Kg	ND	U	44.00	65.0	ND	U	44.00	65.0	ND	U	45.00	66.0
alpha-BHC	319-84-6	ug/Kg	ND	U	0.40	1.6	ND	U	0.40	1.6	ND	U	0.41	1.7
alpha-Chlordane	5103-71-9	ug/Kg	ND	U	0.41	1.6	ND	U	0.41	1.6	ND	U	0.42	1.7
beta-BHC	319-85-7	ug/Kg	ND	U	0.45	1.6	ND	U	0.45	1.6	ND	U	0.45	1.7
cis-Nonachlor	5103-73-1	ug/Kg	ND	U	0.52	1.6	ND	U	0.52	1.6	ND	U	0.53	1.7
delta-BHC	319-86-8	ug/Kg	ND	U	0.51	1.6	6.1	J	0.51	1.6	22	J	0.52	1.7
gamma-BHC (Lindane)	58-89-9	ug/Kg	ND	U	0.42	1.6	ND	U	0.42	1.6	ND	U	0.43	1.7
gamma-Chlordane	5103-74-2	ug/Kg	ND	U	0.38	1.6	ND	U	0.38	1.6	ND	U	0.39	1.7
oxy-Chlordane	27304-13-8	ug/Kg	ND	U	0.67	1.6	ND	U	0.67	1.6	ND	U	0.68	1.7
trans-Nonachlor	39765-80-5	ug/Kg	ND	U	0.74	1.6	ND	U	0.74	1.6	ND	U	0.76	1.7

Sample Code			3B				3C				3D			
Lab Sample ID			180-175878-24				180-175878-20				180-175878-8			
Analyte	CAS	Units	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL
2,4'-DDD	53-19-0	ug/Kg	ND	R	0.050	0.083	ND	U	1.00	1.7	ND	U	1.00	1.7
2,4'-DDE	3424-82-6	ug/Kg	ND	R	0.051	0.083	ND	UJ	1.00	1.7	ND	UJ	1.00	1.7
2,4'-DDT	789-02-6	ug/Kg	ND	R	0.032	0.083	ND	U	0.65	1.7	ND	U	0.65	1.7
4,4'-DDD	72-54-8	ug/Kg	ND	R	0.017	0.083	ND	U	0.35	1.7	ND	U	0.35	1.7
4,4'-DDE	72-55-9	ug/Kg	ND	R	0.017	0.083	ND	U	0.34	1.7	ND	U	0.34	1.7
4,4'-DDT	50-29-3	ug/Kg	ND	R	0.059	0.083	ND	U	1.20	1.7	ND	U	1.20	1.7
Aldrin	309-00-2	ug/Kg	ND	R	0.026	0.083	ND	UJ	0.52	1.7	19		0.52	1.7
Dieldrin	60-57-1	ug/Kg	ND	R	0.021	0.083	ND	U	0.42	1.7	ND	U	0.42	1.7
Endosulfan I	959-98-8	ug/Kg	ND	R	0.022	0.083	ND	UJ	0.45	1.7	ND	U	0.45	1.7
Endosulfan II	33213-65-9	ug/Kg	ND	R	0.018	0.083	ND	U	0.37	1.7	ND	U	0.37	1.7
Endosulfan sulfate	1031-07-8	ug/Kg	ND	R	0.038	0.083	ND	U	0.77	1.7	ND	U	0.77	1.7
Endrin	72-20-8	ug/Kg	ND	R	0.016	0.083	ND	U	0.31	1.7	ND	U	0.31	1.7
Endrin aldehyde	7421-93-4	ug/Kg	ND	R	0.030	0.083	ND	U	0.60	1.7	ND	U	0.60	1.7
Endrin ketone	53494-70-5	ug/Kg	ND	R	0.034	0.083	ND	U	0.68	1.7	ND	U	0.68	1.7
Heptachlor	76-44-8	ug/Kg	ND	R	0.026	0.083	5.3	J	0.52	1.7	ND	U	0.52	1.7
Heptachlor epoxide	1024-57-3	ug/Kg	ND	R	0.021	0.083	ND	UJ	0.43	1.7	ND	U	0.43	1.7

Sample Code			3B				3C				3D			
Lab Sample ID			180-175878-24				180-175878-20				180-175878-8			
Analyte	CAS	Units	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL
Methoxychlor	72-43-5	ug/Kg	ND	R	0.032	0.170	ND	U	0.65	3.3	ND	U	0.65	3.3
Total Chlordane		ug/Kg	ND				ND				ND			
Total DDT		ug/Kg	ND				ND				ND			
Toxaphene	8001-35-2	ug/Kg	ND	R	2.200	3.300	ND	UJ	45.00	67.0	ND	U	45.00	67.0
alpha-BHC	319-84-6	ug/Kg	ND	R	0.020	0.083	ND	UJ	0.41	1.7	ND	U	0.41	1.7
alpha-Chlordane	5103-71-9	ug/Kg	ND	R	0.021	0.083	ND	UJ	0.42	1.7	ND	U	0.42	1.7
beta-BHC	319-85-7	ug/Kg	1.1	J	0.023	0.083	33	J	0.46	1.7	ND	U	0.46	1.7
cis-Nonachlor	5103-73-1	ug/Kg	ND	R	0.026	0.083	ND	U	0.53	1.7	ND	U	0.53	1.7
delta-BHC	319-86-8	ug/Kg	ND	R	0.026	0.083	7.4	J	0.53	1.7	ND	U	0.53	1.7
gamma-BHC (Lindane)	58-89-9	ug/Kg	ND	R	0.021	0.083	ND	UJ	0.43	1.7	ND	U	0.43	1.7
gamma-Chlordane	5103-74-2	ug/Kg	ND	R	0.019	0.083	ND	UJ	0.39	1.7	ND	U	0.39	1.7
oxy-Chlordane	27304-13-8	ug/Kg	ND	R	0.034	0.083	ND	UJ	0.69	1.7	ND	U	0.69	1.7
trans-Nonachlor	39765-80-5	ug/Kg	ND	R	0.038	0.083	ND	UJ	0.76	1.7	ND	U	0.76	1.7

Sample Code			3E				3F				3G			
Lab Sample ID			180-175878-6				180-175878-25				180-175878-3			
Analyte	CAS	Units	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL
2,4'-DDD	53-19-0	ug/Kg	ND	U	0.99	1.6	ND	UJ	0.048	0.081	ND	U	1.00	1.7
2,4'-DDE	3424-82-6	ug/Kg	ND	UJ	1.00	1.6	ND	UJ	0.049	0.081	ND	UJ	1.00	1.7
2,4'-DDT	789-02-6	ug/Kg	ND	U	0.64	1.6	ND	UJ	0.032	0.081	ND	U	0.65	1.7
4,4'-DDD	72-54-8	ug/Kg	ND	U	0.35	1.6	ND	UJ	0.017	0.081	ND	U	0.35	1.7
4,4'-DDE	72-55-9	ug/Kg	ND	U	0.34	1.6	ND	UJ	0.016	0.081	ND	U	0.34	1.7
4,4'-DDT	50-29-3	ug/Kg	ND	U	1.20	1.6	0.28	J	0.058	0.081	ND	U	1.20	1.7
Aldrin	309-00-2	ug/Kg	ND	U	0.51	1.6	ND	UJ	0.025	0.081	ND	U	0.52	1.7
Dieldrin	60-57-1	ug/Kg	ND	U	0.41	1.6	ND	UJ	0.020	0.081	ND	U	0.42	1.7
Endosulfan I	959-98-8	ug/Kg	ND	U	0.45	1.6	ND	UJ	0.022	0.081	ND	U	0.45	1.7
Endosulfan II	33213-65-9	ug/Kg	ND	U	0.36	1.6	ND	UJ	0.018	0.081	ND	U	0.37	1.7
Endosulfan sulfate	1031-07-8	ug/Kg	ND	U	0.76	1.6	ND	UJ	0.037	0.081	ND	U	0.77	1.7
Endrin	72-20-8	ug/Kg	ND	U	0.31	1.6	ND	UJ	0.015	0.081	ND	U	0.31	1.7
Endrin aldehyde	7421-93-4	ug/Kg	ND	U	0.59	1.6	ND	UJ	0.029	0.081	ND	U	0.60	1.7
Endrin ketone	53494-70-5	ug/Kg	ND	U	0.67	1.6	ND	UJ	0.033	0.081	ND	U	0.68	1.7
Heptachlor	76-44-8	ug/Kg	ND	U	0.52	1.6	ND	UJ	0.025	0.081	ND	U	0.52	1.7
Heptachlor epoxide	1024-57-3	ug/Kg	ND	U	0.42	1.6	ND	UJ	0.021	0.081	ND	U	0.43	1.7

Sample Code			3E				3F				3G			
Lab Sample ID			180-175878-6				180-175878-25				180-175878-3			
Analyte	CAS	Units	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL
Methoxychlor	72-43-5	ug/Kg	ND	U	0.64	3.3	ND	UJ	0.031	0.160	ND	U	0.65	3.3
Total Chlordane		ug/Kg	ND				ND				ND			
Total DDT		ug/Kg	ND				0.28				ND			
Toxaphene	8001-35-2	ug/Kg	ND	U	45.00	66.0	ND	UJ	2.200	3.200	ND	U	45.00	67.0
alpha-BHC	319-84-6	ug/Kg	ND	U	0.40	1.6	ND	UJ	0.020	0.081	ND	U	0.41	1.7
alpha-Chlordane	5103-71-9	ug/Kg	ND	U	0.41	1.6	ND	UJ	0.020	0.081	ND	U	0.42	1.7
beta-BHC	319-85-7	ug/Kg	ND	U	0.45	1.6	ND	UJ	0.022	0.081	ND	U	0.46	1.7
cis-Nonachlor	5103-73-1	ug/Kg	ND	U	0.52	1.6	ND	UJ	0.026	0.081	ND	U	0.53	1.7
delta-BHC	319-86-8	ug/Kg	3.1	J	0.52	1.6	ND	UJ	0.026	0.081	4.5	J	0.53	1.7
gamma-BHC (Lindane)	58-89-9	ug/Kg	ND	U	0.42	1.6	ND	UJ	0.021	0.081	ND	U	0.43	1.7
gamma-Chlordane	5103-74-2	ug/Kg	ND	U	0.38	1.6	ND	UJ	0.019	0.081	ND	U	0.39	1.7
oxy-Chlordane	27304-13-8	ug/Kg	ND	U	0.68	1.6	ND	UJ	0.033	0.081	ND	U	0.69	1.7
trans-Nonachlor	39765-80-5	ug/Kg	ND	U	0.75	1.6	ND	UJ	0.037	0.081	ND	U	0.76	1.7

Sample Code			3H				4A				4B			
Lab Sample ID			180-175878-23				180-175878-11				180-175878-14			
Analyte	CAS	Units	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL
2,4'-DDD	53-19-0	ug/Kg	ND	UJ	0.050	0.083	ND	U	0.97	1.6	ND	U	0.99	1.7
2,4'-DDE	3424-82-6	ug/Kg	ND	UJ	0.051	0.083	ND	UJ	0.99	1.6	ND	UJ	1.00	1.7
2,4'-DDT	789-02-6	ug/Kg	ND	UJ	0.032	0.083	ND	U	0.63	1.6	ND	U	0.65	1.7
4,4'-DDD	72-54-8	ug/Kg	0.69	J	0.017	0.083	ND	U	0.34	1.6	ND	U	0.35	1.7
4,4'-DDE	72-55-9	ug/Kg	ND	UJ	0.017	0.083	ND	U	0.33	1.6	11		0.34	1.7
4,4'-DDT	50-29-3	ug/Kg	ND	UJ	0.059	0.083	ND	U	1.20	1.6	ND	U	1.20	1.7
Aldrin	309-00-2	ug/Kg	ND	UJ	0.026	0.083	ND	U	0.50	1.6	ND	U	0.51	1.7
Dieldrin	60-57-1	ug/Kg	ND	UJ	0.021	0.083	ND	U	0.40	1.6	ND	U	0.42	1.7
Endosulfan I	959-98-8	ug/Kg	ND	UJ	0.022	0.083	ND	U	0.44	1.6	ND	U	0.45	1.7
Endosulfan II	33213-65-9	ug/Kg	ND	UJ	0.018	0.083	ND	U	0.36	1.6	ND	U	0.37	1.7
Endosulfan sulfate	1031-07-8	ug/Kg	ND	UJ	0.038	0.083	ND	U	0.74	1.6	ND	U	0.76	1.7
Endrin	72-20-8	ug/Kg	ND	UJ	0.016	0.083	ND	U	0.30	1.6	ND	U	0.31	1.7
Endrin aldehyde	7421-93-4	ug/Kg	ND	UJ	0.030	0.083	ND	U	0.58	1.6	ND	U	0.59	1.7
Endrin ketone	53494-70-5	ug/Kg	ND	UJ	0.034	0.083	ND	U	0.66	1.6	ND	U	0.67	1.7
Heptachlor	76-44-8	ug/Kg	ND	UJ	0.026	0.083	ND	U	0.51	1.6	ND	U	0.52	1.7
Heptachlor epoxide	1024-57-3	ug/Kg	ND	UJ	0.021	0.083	ND	U	0.41	1.6	ND	U	0.42	1.7

Sample Code			3H				4A				4B			
Lab Sample ID			180-175878-23				180-175878-11				180-175878-14			
Analyte	CAS	Units	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL
Methoxychlor	72-43-5	ug/Kg	ND	UJ	0.032	0.170	ND	U	0.63	3.2	ND	U	0.65	3.3
Total Chlordane		ug/Kg	ND				ND				ND			
Total DDT		ug/Kg	0.69				ND				11			
Toxaphene	8001-35-2	ug/Kg	ND	UJ	2.200	3.300	ND	U	44.00	65.0	ND	U	45.00	66.0
alpha-BHC	319-84-6	ug/Kg	ND	UJ	0.020	0.083	ND	U	0.40	1.6	ND	U	0.41	1.7
alpha-Chlordane	5103-71-9	ug/Kg	ND	UJ	0.021	0.083	ND	U	0.40	1.6	ND	U	0.42	1.7
beta-BHC	319-85-7	ug/Kg	3.6	J	0.023	0.083	ND	U	0.44	1.6	ND	U	0.45	1.7
cis-Nonachlor	5103-73-1	ug/Kg	ND	UJ	0.026	0.083	ND	U	0.51	1.6	ND	U	0.53	1.7
delta-BHC	319-86-8	ug/Kg	ND	UJ	0.026	0.083	ND	U	0.51	1.6	ND	U	0.52	1.7
gamma-BHC (Lindane)	58-89-9	ug/Kg	ND	UJ	0.021	0.083	ND	U	0.42	1.6	ND	U	0.43	1.7
gamma-Chlordane	5103-74-2	ug/Kg	ND	UJ	0.019	0.083	ND	U	0.38	1.6	ND	U	0.39	1.7
oxy-Chlordane	27304-13-8	ug/Kg	ND	UJ	0.034	0.083	ND	U	0.66	1.6	ND	U	0.68	1.7
trans-Nonachlor	39765-80-5	ug/Kg	ND	UJ	0.038	0.083	ND	U	0.74	1.6	ND	U	0.76	1.7

Sample Code			4C				4D				4E			
Lab Sample ID			180-175878-13				180-175878-16				180-175878-18			
Analyte	CAS	Units	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL
2,4'-DDD	53-19-0	ug/Kg	ND	U	0.97	1.6	ND	U	0.97	1.6	ND	U	1.00	1.7
2,4'-DDE	3424-82-6	ug/Kg	ND	UJ	0.99	1.6	ND	UJ	0.99	1.6	ND	UJ	1.00	1.7
2,4'-DDT	789-02-6	ug/Kg	ND	U	0.64	1.6	ND	U	0.64	1.6	ND	U	0.65	1.7
4,4'-DDD	72-54-8	ug/Kg	ND	U	0.34	1.6	ND	U	0.34	1.6	ND	U	0.35	1.7
4,4'-DDE	72-55-9	ug/Kg	ND	U	0.33	1.6	ND	U	0.33	1.6	ND	U	0.34	1.7
4,4'-DDT	50-29-3	ug/Kg	ND	U	1.20	1.6	ND	U	1.20	1.6	ND	U	1.20	1.7
Aldrin	309-00-2	ug/Kg	ND	U	0.50	1.6	ND	U	0.50	1.6	ND	U	0.52	1.7
Dieldrin	60-57-1	ug/Kg	ND	U	0.41	1.6	ND	U	0.41	1.6	ND	U	0.42	1.7
Endosulfan I	959-98-8	ug/Kg	ND	U	0.44	1.6	ND	U	0.44	1.6	ND	U	0.45	1.7
Endosulfan II	33213-65-9	ug/Kg	ND	U	0.36	1.6	ND	U	0.36	1.6	ND	U	0.37	1.7
Endosulfan sulfate	1031-07-8	ug/Kg	ND	U	0.75	1.6	ND	U	0.75	1.6	ND	U	0.77	1.7
Endrin	72-20-8	ug/Kg	ND	U	0.31	1.6	ND	U	0.31	1.6	ND	U	0.31	1.7
Endrin aldehyde	7421-93-4	ug/Kg	ND	U	0.58	1.6	ND	U	0.58	1.6	ND	U	0.60	1.7
Endrin ketone	53494-70-5	ug/Kg	ND	U	0.66	1.6	ND	U	0.66	1.6	ND	U	0.68	1.7
Heptachlor	76-44-8	ug/Kg	ND	U	0.51	1.6	ND	U	0.51	1.6	ND	U	0.52	1.7
Heptachlor epoxide	1024-57-3	ug/Kg	ND	U	0.41	1.6	ND	U	0.41	1.6	ND	U	0.43	1.7

Sample Code			4C				4D				4E			
Lab Sample ID			180-175878-13				180-175878-16				180-175878-18			
Analyte	CAS	Units	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL
Methoxychlor	72-43-5	ug/Kg	ND	U	0.63	3.2	ND	U	0.63	3.2	ND	U	0.65	3.3
Total Chlordane		ug/Kg	ND				ND				ND			
Total DDT		ug/Kg	ND				ND				ND			
Toxaphene	8001-35-2	ug/Kg	ND	U	44.00	65.0	ND	U	44.00	65.0	ND	U	45.00	67.0
alpha-BHC	319-84-6	ug/Kg	ND	U	0.40	1.6	ND	U	0.40	1.6	ND	U	0.41	1.7
alpha-Chlordane	5103-71-9	ug/Kg	ND	U	0.41	1.6	ND	U	0.41	1.6	ND	U	0.42	1.7
beta-BHC	319-85-7	ug/Kg	ND	U	0.45	1.6	ND	U	0.45	1.6	ND	U	0.46	1.7
cis-Nonachlor	5103-73-1	ug/Kg	ND	U	0.52	1.6	ND	U	0.52	1.6	ND	U	0.53	1.7
delta-BHC	319-86-8	ug/Kg	ND	U	0.51	1.6	ND	U	0.51	1.6	ND	U	0.53	1.7
gamma-BHC (Lindane)	58-89-9	ug/Kg	ND	U	0.42	1.6	ND	U	0.42	1.6	ND	U	0.43	1.7
gamma-Chlordane	5103-74-2	ug/Kg	ND	U	0.38	1.6	ND	U	0.38	1.6	ND	U	0.39	1.7
oxy-Chlordane	27304-13-8	ug/Kg	ND	U	0.67	1.6	ND	U	0.67	1.6	ND	U	0.69	1.7
trans-Nonachlor	39765-80-5	ug/Kg	ND	U	0.74	1.6	ND	U	0.74	1.6	ND	U	0.76	1.7

Sample Code			5A				5B				5C			
Lab Sample ID			180-175878-12				180-175878-22				180-175878-2			
Analyte	CAS	Units	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL
2,4'-DDD	53-19-0	ug/Kg	ND	U	0.98	1.6	ND	UJ	0.049	0.081	ND	U	0.99	1.6
2,4'-DDE	3424-82-6	ug/Kg	ND	UJ	1.00	1.6	ND	UJ	0.050	0.081	ND	UJ	1.00	1.6
2,4'-DDT	789-02-6	ug/Kg	ND	U	0.64	1.6	ND	UJ	0.032	0.081	ND	U	0.64	1.6
4,4'-DDD	72-54-8	ug/Kg	ND	U	0.34	1.6	ND	UJ	0.017	0.081	ND	U	0.35	1.6
4,4'-DDE	72-55-9	ug/Kg	ND	U	0.33	1.6	ND	UJ	0.017	0.081	ND	U	0.34	1.6
4,4'-DDT	50-29-3	ug/Kg	ND	U	1.20	1.6	ND	UJ	0.058	0.081	ND	U	1.20	1.6
Aldrin	309-00-2	ug/Kg	11		0.51	1.6	ND	UJ	0.025	0.081	ND	U	0.51	1.6
Dieldrin	60-57-1	ug/Kg	ND	U	0.41	1.6	ND	UJ	0.020	0.081	ND	U	0.41	1.6
Endosulfan I	959-98-8	ug/Kg	ND	U	0.44	1.6	ND	UJ	0.022	0.081	ND	U	0.45	1.6
Endosulfan II	33213-65-9	ug/Kg	ND	U	0.36	1.6	ND	UJ	0.018	0.081	ND	U	0.36	1.6
Endosulfan sulfate	1031-07-8	ug/Kg	ND	U	0.75	1.6	ND	UJ	0.037	0.081	ND	U	0.76	1.6
Endrin	72-20-8	ug/Kg	ND	U	0.31	1.6	ND	UJ	0.015	0.081	ND	U	0.31	1.6
Endrin aldehyde	7421-93-4	ug/Kg	ND	U	0.58	1.6	ND	UJ	0.029	0.081	ND	U	0.59	1.6
Endrin ketone	53494-70-5	ug/Kg	ND	U	0.66	1.6	ND	UJ	0.033	0.081	ND	U	0.67	1.6
Heptachlor	76-44-8	ug/Kg	ND	U	0.51	1.6	ND	UJ	0.025	0.081	ND	U	0.52	1.6
Heptachlor epoxide	1024-57-3	ug/Kg	ND	U	0.42	1.6	ND	UJ	0.021	0.081	ND	U	0.42	1.6

Sample Code			5A				5B				5C			
Lab Sample ID			180-175878-12				180-175878-22				180-175878-2			
Analyte	CAS	Units	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL
Methoxychlor	72-43-5	ug/Kg	ND	U	0.64	3.3	ND	UJ	0.032	0.160	ND	U	0.64	3.3
Total Chlordane		ug/Kg	ND				ND				ND			
Total DDT		ug/Kg	ND				ND				ND			
Toxaphene	8001-35-2	ug/Kg	ND	U	44.00	65.0	ND	UJ	2.200	3.200	ND	U	45.00	66.0
alpha-BHC	319-84-6	ug/Kg	ND	U	0.40	1.6	ND	UJ	0.020	0.081	ND	U	0.40	1.6
alpha-Chlordane	5103-71-9	ug/Kg	ND	U	0.41	1.6	ND	UJ	0.020	0.081	ND	U	0.41	1.6
beta-BHC	319-85-7	ug/Kg	13	J	0.45	1.6	ND	UJ	0.022	0.081	ND	U	0.45	1.6
cis-Nonachlor	5103-73-1	ug/Kg	ND	U	0.52	1.6	ND	UJ	0.026	0.081	ND	U	0.52	1.6
delta-BHC	319-86-8	ug/Kg	18		0.52	1.6	ND	UJ	0.026	0.081	ND	U	0.52	1.6
gamma-BHC (Lindane)	58-89-9	ug/Kg	ND	U	0.42	1.6	ND	UJ	0.021	0.081	ND	U	0.42	1.6
gamma-Chlordane	5103-74-2	ug/Kg	ND	U	0.38	1.6	ND	UJ	0.019	0.081	ND	U	0.38	1.6
oxy-Chlordane	27304-13-8	ug/Kg	ND	U	0.67	1.6	ND	UJ	0.033	0.081	ND	U	0.68	1.6
trans-Nonachlor	39765-80-5	ug/Kg	ND	U	0.75	1.6	ND	UJ	0.037	0.081	ND	U	0.75	1.6

Sample Code			5D			
Lab Sample ID			180-175878-1			
Analyte	CAS	Units	Result	Qualifier	MDL	RL
2,4'-DDD	53-19-0	ug/Kg	ND	U	0.99	1.6
2,4'-DDE	3424-82-6	ug/Kg	ND	UJ	1.00	1.6
2,4'-DDT	789-02-6	ug/Kg	ND	U	0.64	1.6
4,4'-DDD	72-54-8	ug/Kg	ND	U	0.35	1.6
4,4'-DDE	72-55-9	ug/Kg	ND	U	0.34	1.6
4,4'-DDT	50-29-3	ug/Kg	ND	U	1.20	1.6
Aldrin	309-00-2	ug/Kg	ND	U	0.51	1.6
Dieldrin	60-57-1	ug/Kg	ND	U	0.41	1.6
Endosulfan I	959-98-8	ug/Kg	ND	U	0.45	1.6
Endosulfan II	33213-65-9	ug/Kg	ND	U	0.36	1.6
Endosulfan sulfate	1031-07-8	ug/Kg	ND	U	0.76	1.6
Endrin	72-20-8	ug/Kg	ND	U	0.31	1.6
Endrin aldehyde	7421-93-4	ug/Kg	ND	U	0.59	1.6
Endrin ketone	53494-70-5	ug/Kg	ND	U	0.67	1.6
Heptachlor	76-44-8	ug/Kg	ND	U	0.52	1.6
Heptachlor epoxide	1024-57-3	ug/Kg	ND	U	0.42	1.6

Sample Code			SD			
Lab Sample ID			180-175878-1			
Analyte	CAS	Units	Result	Qualifier	MDL	RL
Methoxychlor	72-43-5	ug/Kg	ND	U	0.64	3.3
Total Chlordane		ug/Kg	ND			
Total DDT		ug/Kg	ND			
Toxaphene	8001-35-2	ug/Kg	ND	U	45.00	66.0
alpha-BHC	319-84-6	ug/Kg	ND	U	0.40	1.6
alpha-Chlordane	5103-71-9	ug/Kg	ND	U	0.41	1.6
beta-BHC	319-85-7	ug/Kg	7.5	J	0.45	1.6
cis-Nonachlor	5103-73-1	ug/Kg	ND	U	0.52	1.6
delta-BHC	319-86-8	ug/Kg	1.9	J	0.52	1.6
gamma-BHC (Lindane)	58-89-9	ug/Kg	ND	U	0.42	1.6
gamma-Chlordane	5103-74-2	ug/Kg	ND	U	0.38	1.6
oxy-Chlordane	27304-13-8	ug/Kg	ND	U	0.68	1.6
trans-Nonachlor	39765-80-5	ug/Kg	ND	U	0.75	1.6

J (Estimated): The reported result was an estimated quantity value.

U (Non-detected): The analyte was not detected above the level of the adjusted detection limit or quantitation limit, as appropriate.

UJ (Non-detected): The analyte was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.

R (Rejected): The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the sample.

APPENDIX F

Analytical Results – PFAS

Table F1. PFAS Concentrations in San Juan River Fish Fillets (ng/g)*(Table F1 is continued on the following pages)*

Sample Code			1A				1B				1C			
Lab Sample ID			180-175878-21				180-175878-7				180-175878-4			
Analyte	CAS	Units	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	763051-92-9	ng/g	ND	U	0.250	2.00	ND	U	0.250	2.00	ND	U	0.250	2.00
1H,1H, 2H, 2H-Perfluorodecane sulfonic acid (8:2FTS)	39108-34-4	ng/g	ND	U	0.670	2.00	ND	U	0.670	2.00	ND	U	0.670	2.00
1H,1H, 2H, 2H-Perfluorohexane sulfonic acid (4:2FTS)	757124-72-4	ng/g	ND	U	0.550	2.00	ND	U	0.550	2.00	ND	U	0.540	2.00
1H,1H, 2H, 2H-Perfluorooctane sulfonic acid (6:2FTS)	27619-97-2	ng/g	ND	U	1.400	3.00	ND	U	1.400	3.00	ND	U	1.400	2.90
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	812-70-4	ng/g	ND	U	2.900	12.00	ND	U	2.900	12.00	ND	U	2.900	12.00
3-Perfluoropentylpropanoic acid (5:3 FTCA)	914637-49-3	ng/g	ND	U	2.100	12.00	ND	U	2.100	12.00	ND	U	2.100	12.00
3-Perfluoropropylpropanoic acid (3:3 FTCA)	356-02-5	ng/g	ND	U	0.710	2.50	ND	U	0.710	2.50	ND	U	0.710	2.50
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	919005-14-4	ng/g	ND	U	0.390	2.00	ND	U	0.390	2.00	ND	U	0.390	2.00
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	756426-58-1	ng/g	ND	U	0.250	2.00	ND	U	0.250	2.00	ND	U	0.250	2.00
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	13252-13-6	ng/g	ND	U	0.260	2.00	ND	U	0.260	2.00	ND	U	0.260	2.00

Sample Code			1A				1B				1C			
Lab Sample ID			180-175878-21				180-175878-7				180-175878-4			
Analyte	CAS	Units	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL
N-ethylperfluorooctane sulfonamide (NEtFOSA)	4151-50-2	ng/g	ND	U	0.100	0.49	ND	U	0.100	0.49	ND	U	0.100	0.49
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	1691-99-2	ng/g	1.9	J	1.800	5.00	ND	U	1.800	4.90	ND	U	1.800	4.90
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2991-50-6	ng/g	ND	U	0.170	0.49	ND	U	0.170	0.49	ND	U	0.170	0.49
N-methylperfluorooctane sulfonamide (NMeFOSA)	31506-32-8	ng/g	ND	U	0.074	0.49	ND	U	0.074	0.49	ND	U	0.074	0.49
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	24448-09-7	ng/g	ND	U	0.670	5.00	ND	U	0.670	4.90	ND	U	0.670	4.90
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2355-31-9	ng/g	ND	U	0.210	0.49	ND	U	0.210	0.49	ND	U	0.200	0.49
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	151772-58-6	ng/g	ND	U	0.380	0.99	ND	U	0.380	0.99	ND	U	0.380	0.98
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	113507-82-7	ng/g	ND	U	0.230	0.99	ND	U	0.230	0.99	ND	U	0.230	0.98
Perfluoro-3-methoxypropanoic acid (PFMPA)	377-73-1	ng/g	ND	U	0.120	0.99	ND	U	0.120	0.99	ND	U	0.120	0.98
Perfluoro-4-methoxybutanoic acid (PFMBA)	863090-89-5	ng/g	ND	U	0.200	0.99	ND	U	0.200	0.99	ND	U	0.200	0.98
Perfluorobutanesulfonic acid (PFBS)	375-73-5	ng/g	ND	U	0.170	0.49	ND	U	0.170	0.49	ND	U	0.170	0.49

Sample Code			1A				1B				1C			
Lab Sample ID			180-175878-21				180-175878-7				180-175878-4			
Analyte	CAS	Units	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL
Perfluorobutanoic acid (PFBA)	375-22-4	ng/g	ND	U	0.360	2.00	ND	U	0.360	2.00	ND	U	0.360	2.00
Perfluorodecanesulfonic acid (PFDS)	335-77-3	ng/g	ND	U	0.200	0.49	ND	U	0.200	0.49	ND	U	0.200	0.49
Perfluorodecanoic acid (PFDA)	335-76-2	ng/g	0.54		0.210	0.49	0.22	J	0.210	0.49	0.43	J	0.210	0.49
Perfluorododecanesulfonic acid (PFDoS)	79780-39-5	ng/g	ND	U	0.110	0.49	ND	U	0.110	0.49	ND	U	0.110	0.49
Perfluorododecanoic acid (PFDoA)	307-55-1	ng/g	0.23	J	0.078	0.49	ND	U	0.078	0.49	ND	U	0.077	0.49
Perfluoroheptanesulfonic acid (PFHpS)	375-92-8	ng/g	ND	U	0.120	0.49	ND	U	0.120	0.49	ND	U	0.120	0.49
Perfluoroheptanoic acid (PFHpA)	375-85-9	ng/g	ND	U	0.120	0.49	ND	U	0.120	0.49	ND	U	0.120	0.49
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	ng/g	ND	U	0.076	0.49	ND	U	0.076	0.49	ND	U	0.075	0.49
Perfluorohexanoic acid (PFHxA)	307-24-4	ng/g	ND	U	0.160	0.49	ND	U	0.160	0.49	ND	U	0.160	0.49
Perfluorononanesulfonic acid (PFNS)	68259-12-1	ng/g	ND	U	0.091	0.49	ND	U	0.091	0.49	ND	U	0.090	0.49
Perfluorononanoic acid (PFNA)	375-95-1	ng/g	ND	U	0.150	0.49	ND	U	0.150	0.49	0.31	J	0.150	0.49
Perfluorooctanesulfonamide (PFOSA)	754-91-6	ng/g	ND	U	0.093	0.49	ND	U	0.093	0.49	ND	U	0.092	0.49
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	ng/g	2.3		0.120	0.49	0.89		0.120	0.49	ND	U	0.120	0.49
Perfluorooctanoic acid (PFOA)	335-67-1	ng/g	ND	U	0.200	0.49	ND	U	0.200	0.49	ND	U	0.200	0.49
Perfluoropentanesulfonic acid (PFPeS)	2706-91-4	ng/g	ND	U	0.091	0.49	ND	U	0.091	0.49	ND	U	0.090	0.49
Perfluoropentanoic acid (PFPeA)	2706-90-3	ng/g	ND	U	0.130	0.99	ND	U	0.130	0.99	ND	U	0.130	0.98

Sample Code			1A				1B				1C			
Lab Sample ID			180-175878-21				180-175878-7				180-175878-4			
Analyte	CAS	Units	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	ng/g	ND	U	0.100	0.49	ND	U	0.100	0.49	ND	U	0.100	0.49
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	ng/g	0.15	J	0.079	0.49	ND	U	0.079	0.49	ND	U	0.078	0.49
Perfluoroundecanoic acid (PFUnA)	2058-94-8	ng/g	0.31	J	0.130	0.49	0.15	J	0.130	0.49	0.19	J	0.130	0.49

Sample Code			1D				2A				2B			
Lab Sample ID			180-175878-19				180-175878-17				180-175878-10			
Analyte	CAS	Units	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL
11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11CI-PF3OUdS)	763051-92-9	ng/g	ND	U	0.250	2.0	ND	U	0.250	2.00	ND	U	0.250	2.00
1H,1H, 2H, 2H-Perfluorodecane sulfonic acid (8:2FTS)	39108-34-4	ng/g	ND	U	0.680	2.0	ND	U	0.670	2.00	ND	U	0.680	2.00
1H,1H, 2H, 2H-Perfluorohexane sulfonic acid (4:2FTS)	757124-72-4	ng/g	ND	U	0.560	2.0	ND	U	0.550	2.00	ND	U	0.550	2.00
1H,1H, 2H, 2H-Perfluorooctane sulfonic acid (6:2FTS)	27619-97-2	ng/g	ND	U	1.400	3.0	ND	U	1.400	3.00	ND	U	1.400	3.00
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	812-70-4	ng/g	ND	U	3.000	13.0	ND	U	2.900	12.00	ND	U	2.900	12.00
3-Perfluoropentylpropanoic acid (5:3 FTCA)	914637-49-3	ng/g	ND	U	2.100	13.0	2.9	J	2.100	12.00	ND	U	2.100	12.00
3-Perfluoropropylpropanoic acid (3:3 FTCA)	356-02-5	ng/g	ND	U	0.720	2.5	ND	U	0.710	2.50	ND	U	0.710	2.50

Sample Code			1D				2A				2B			
Lab Sample ID			180-175878-19				180-175878-17				180-175878-10			
Analyte	CAS	Units	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	919005-14-4	ng/g	ND	U	0.400	2.0	ND	U	0.390	2.00	ND	U	0.400	2.00
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9CI-PF3ONS)	756426-58-1	ng/g	ND	U	0.260	2.0	ND	U	0.250	2.00	ND	U	0.260	2.00
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	13252-13-6	ng/g	ND	U	0.260	2.0	0.26	J	0.260	2.00	ND	U	0.260	2.00
N-ethylperfluorooctane sulfonamide (NEtFOSA)	4151-50-2	ng/g	ND	U	0.100	0.5	ND	U	0.100	0.49	ND	U	0.100	0.50
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	1691-99-2	ng/g	ND	U	19.00 0	50.0	ND	U	1.800	4.90	ND	U	1.800	5.00
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2991-50-6	ng/g	ND	U	0.170	0.5	ND	U	0.170	0.49	ND	U	0.170	0.50
N-methylperfluorooctane sulfonamide (NMeFOSA)	31506-32-8	ng/g	ND	U	0.075	0.5	ND	U	0.074	0.49	ND	U	0.074	0.50
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	24448-09-7	ng/g	ND	U	0.680	5.0	ND	U	0.670	4.90	ND	U	0.670	5.00
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2355-31-9	ng/g	ND	U	0.210	0.5	ND	U	0.210	0.49	ND	U	0.210	0.50
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	151772-58-6	ng/g	ND	U	0.390	1.0	ND	U	0.380	0.99	ND	U	0.390	0.99

Sample Code			1D				2A				2B			
Lab Sample ID			180-175878-19				180-175878-17				180-175878-10			
Analyte	CAS	Units	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	113507-82-7	ng/g	ND	U	0.230	1.0	ND	U	0.230	0.99	ND	U	0.230	0.99
Perfluoro-3-methoxypropanoic acid (PFMPA)	377-73-1	ng/g	ND	U	0.120	1.0	ND	U	0.120	0.99	ND	U	0.120	0.99
Perfluoro-4-methoxybutanoic acid (PFMBA)	863090-89-5	ng/g	ND	U	0.200	1.0	ND	U	0.200	0.99	ND	U	0.200	0.99
Perfluorobutanesulfonic acid (PFBS)	375-73-5	ng/g	ND	U	0.170	0.5	ND	U	0.170	0.49	ND	U	0.170	0.50
Perfluorobutanoic acid (PFBA)	375-22-4	ng/g	ND	U	0.360	2.0	ND	U	0.360	2.00	ND	U	0.360	2.00
Perfluorodecanesulfonic acid (PFDS)	335-77-3	ng/g	ND	U	0.200	0.5	ND	U	0.200	0.49	ND	U	0.200	0.50
Perfluorodecanoic acid (PFDA)	335-76-2	ng/g	0.46	J	0.220	0.5	ND	U	2.100	4.90	ND	U	0.210	0.50
Perfluorododecanesulfonic acid (PFDoS)	79780-39-5	ng/g	ND	U	0.110	0.5	ND	U	0.110	0.49	ND	U	0.110	0.50
Perfluorododecanoic acid (PFDoA)	307-55-1	ng/g	0.27	J	0.079	0.5	0.24	J	0.078	0.49	ND	U	0.078	0.50
Perfluoroheptanesulfonic acid (PFHpS)	375-92-8	ng/g	ND	U	0.120	0.5	ND	U	1.200	4.90	ND	U	0.120	0.50
Perfluoroheptanoic acid (PFHpA)	375-85-9	ng/g	ND	U	0.120	0.5	ND	U	0.120	0.49	ND	U	0.120	0.50
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	ng/g	ND	U	0.077	0.5	ND	U	0.760	4.90	ND	U	0.076	0.50
Perfluorohexanoic acid (PFHxA)	307-24-4	ng/g	ND	U	0.170	0.5	ND	U	0.160	0.49	0.81	J	0.160	0.50
Perfluorononanesulfonic acid (PFNS)	68259-12-1	ng/g	ND	U	0.092	0.5	ND	U	0.091	0.49	ND	U	0.091	0.50
Perfluorononanoic acid (PFNA)	375-95-1	ng/g	ND	U	0.150	0.5	ND	U	0.150	0.49	ND	U	0.150	0.50

Sample Code			1D				2A				2B			
Lab Sample ID			180-175878-19				180-175878-17				180-175878-10			
Analyte	CAS	Units	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL
Perfluorooctanesulfonamide (PFOSA)	754-91-6	ng/g	ND	U	0.094	0.5	ND	U	0.093	0.49	ND	U	0.093	0.50
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	ng/g	2		0.120	0.5	1.5		0.120	0.49	0.71		0.120	0.50
Perfluorooctanoic acid (PFOA)	335-67-1	ng/g	ND	U	0.200	0.5	ND	U	0.200	0.49	ND	U	0.200	0.50
Perfluoropentanesulfonic acid (PFPeS)	2706-91-4	ng/g	ND	U	0.092	0.5	ND	U	0.910	4.90	ND	U	0.091	0.50
Perfluoropentanoic acid (PFPeA)	2706-90-3	ng/g	ND	U	0.130	1.0	ND	U	0.130	0.99	ND	U	0.130	0.99
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	ng/g	0.13	J	0.110	0.5	0.11	J	0.100	0.49	ND	U	0.100	0.50
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	ng/g	0.14	J	0.080	0.5	0.13	J	0.079	0.49	ND	U	0.079	0.50
Perfluoroundecanoic acid (PFUnA)	2058-94-8	ng/g	0.33	J	0.130	0.5	0.31	J	0.130	0.49	ND	U	0.130	0.50

Sample Code			2C				2D				3A			
Lab Sample ID			180-175878-15				180-175878-5				180-175878-9			
Analyte	CAS	Units	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	763051-92-9	ng/g	ND	U	0.240	2.00	ND	U	0.250	2.00	ND	U	0.250	2.00
1H,1H, 2H, 2H-Perfluorodecane sulfonic acid (8:2FTS)	39108-34-4	ng/g	ND	U	0.670	2.00	ND	U	0.680	2.00	ND	U	0.670	2.00

Sample Code			2C				2D				3A			
Lab Sample ID			180-175878-15				180-175878-5				180-175878-9			
Analyte	CAS	Units	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL
1H,1H, 2H, 2H-Perfluorohexane sulfonic acid (4:2FTS)	757124-72-4	ng/g	ND	U	0.540	2.00	ND	U	0.550	2.00	ND	U	0.540	2.00
1H,1H, 2H, 2H-Perfluorooctane sulfonic acid (6:2FTS)	27619-97-2	ng/g	ND	U	14.00 0	29.00	ND	U	1.400	3.00	ND	U	1.400	2.90
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	812-70-4	ng/g	ND	U	2.900	12.00	ND	U	2.900	12.00	ND	U	2.900	12.00
3-Perfluoropentylpropanoic acid (5:3 FTCA)	914637-49-3	ng/g	ND	U	2.100	12.00	ND	U	2.100	12.00	ND	U	2.100	12.00
3-Perfluoropropylpropanoic acid (3:3 FTCA)	356-02-5	ng/g	ND	U	0.700	2.40	ND	U	0.710	2.50	ND	U	0.710	2.50
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	919005-14-4	ng/g	ND	U	0.390	2.00	ND	U	0.400	2.00	ND	U	0.390	2.00
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9CI-PF3ONS)	756426-58-1	ng/g	ND	U	0.250	2.00	ND	U	0.260	2.00	ND	U	0.250	2.00
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	13252-13-6	ng/g	ND	U	0.260	2.00	ND	U	0.260	2.00	ND	U	0.260	2.00
N-ethylperfluorooctane sulfonamide (NEtFOSA)	4151-50-2	ng/g	ND	U	0.100	0.49	ND	U	0.100	0.50	ND	U	0.100	0.49
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	1691-99-2	ng/g	2	J	1.800	4.90	ND	U	1.800	5.00	ND	U	1.800	4.90
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2991-50-6	ng/g	ND	U	0.170	0.49	ND	U	0.170	0.50	ND	U	0.170	0.49

Sample Code			2C				2D				3A			
Lab Sample ID			180-175878-15				180-175878-5				180-175878-9			
Analyte	CAS	Units	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL
N-methylperfluorooctane sulfonamide (NMeFOSA)	31506-32-8	ng/g	ND	U	0.073	0.49	ND	U	0.074	0.50	ND	U	0.074	0.49
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	24448-09-7	ng/g	ND	U	0.660	4.90	ND	U	0.670	5.00	ND	U	0.670	4.90
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2355-31-9	ng/g	ND	U	0.200	0.49	ND	U	0.210	0.50	ND	U	0.200	0.49
Nonafluoro-3,6-dioxahheptanoic acid (NFDHA)	151772-58-6	ng/g	ND	U	0.380	0.98	ND	U	0.390	0.99	ND	U	0.380	0.98
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	113507-82-7	ng/g	ND	U	0.220	0.98	ND	U	0.230	0.99	ND	U	0.230	0.98
Perfluoro-3-methoxypropanoic acid (PFMPA)	377-73-1	ng/g	ND	U	0.120	0.98	ND	U	0.120	0.99	ND	U	0.120	0.98
Perfluoro-4-methoxybutanoic acid (PFMBA)	863090-89-5	ng/g	ND	U	0.200	0.98	ND	U	0.200	0.99	ND	U	0.200	0.98
Perfluorobutanesulfonic acid (PFBS)	375-73-5	ng/g	ND	U	0.170	0.49	ND	U	0.170	0.50	ND	U	0.170	0.49
Perfluorobutanoic acid (PFBA)	375-22-4	ng/g	ND	U	0.360	2.00	ND	U	0.360	2.00	ND	U	0.360	2.00
Perfluorodecanesulfonic acid (PFDS)	335-77-3	ng/g	ND	U	0.200	0.49	ND	U	0.200	0.50	ND	U	0.200	0.49
Perfluorodecanoic acid (PFDA)	335-76-2	ng/g	0.41	J	0.210	0.49	0.4	J	0.210	0.50	0.7		0.210	0.49
Perfluorododecanesulfonic acid (PFDoS)	79780-39-5	ng/g	ND	U	0.110	0.49	ND	U	0.110	0.50	ND	U	0.110	0.49
Perfluorododecanoic acid (PFDoA)	307-55-1	ng/g	0.2	J	0.077	0.49	0.12	J	0.078	0.50	0.17	J	0.077	0.49

Sample Code			2C				2D				3A			
Lab Sample ID			180-175878-15				180-175878-5				180-175878-9			
Analyte	CAS	Units	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL
Perfluoroheptanesulfonic acid (PFHpS)	375-92-8	ng/g	ND	U	1.200	4.90	ND	U	0.120	0.50	ND	U	0.120	0.49
Perfluoroheptanoic acid (PFHpA)	375-85-9	ng/g	ND	U	0.120	0.49	ND	U	0.120	0.50	ND	U	0.120	0.49
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	ng/g	ND	U	0.750	4.90	ND	U	0.076	0.50	ND	U	0.075	0.49
Perfluorohexanoic acid (PFHxA)	307-24-4	ng/g	ND	U	0.160	0.49	ND	U	0.160	0.50	1.5	J	0.160	0.49
Perfluorononanesulfonic acid (PFNS)	68259-12-1	ng/g	ND	U	0.090	0.49	ND	U	0.091	0.50	ND	U	0.090	0.49
Perfluorononanoic acid (PFNA)	375-95-1	ng/g	ND	U	0.150	0.49	ND	U	0.150	0.50	ND	U	0.150	0.49
Perfluorooctanesulfonamide (PFOSA)	754-91-6	ng/g	ND	U	0.092	0.49	ND	U	0.093	0.50	ND	U	0.092	0.49
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	ng/g	2		0.120	0.49	1.3		0.120	0.50	1.4		0.120	0.49
Perfluorooctanoic acid (PFOA)	335-67-1	ng/g	ND	U	0.200	0.49	ND	U	0.200	0.50	ND	U	0.200	0.49
Perfluoropentanesulfonic acid (PFPeS)	2706-91-4	ng/g	ND	U	0.900	4.90	ND	U	0.091	0.50	ND	U	0.090	0.49
Perfluoropentanoic acid (PFPeA)	2706-90-3	ng/g	ND	U	0.130	0.98	ND	U	0.130	0.99	ND	U	0.130	0.98
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	ng/g	ND	U	0.100	0.49	ND	U	0.100	0.50	ND	U	0.100	0.49
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	ng/g	0.1	J	0.078	0.49	ND	U	0.079	0.50	ND	U	0.078	0.49
Perfluoroundecanoic acid (PFUnA)	2058-94-8	ng/g	0.33	J	0.130	0.49	0.25	J	0.130	0.50	0.4	J	0.130	0.49

Sample Code			3B				3C				3D			
Lab Sample ID			180-175878-24				180-175878-20				180-175878-8			
Analyte	CAS	Units	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11CI-PF3OUdS)	763051-92-9	ng/g	ND	U	0.240	1.90	ND	U	0.250	2.0	ND	U	0.250	2.0
1H,1H, 2H, 2H-Perfluorodecane sulfonic acid (8:2FTS)	39108-34-4	ng/g	ND	U	0.660	1.90	ND	U	0.680	2.0	ND	U	0.680	2.0
1H,1H, 2H, 2H-Perfluorohexane sulfonic acid (4:2FTS)	757124-72-4	ng/g	ND	U	0.530	1.90	ND	U	0.550	2.0	ND	U	0.560	2.0
1H,1H, 2H, 2H-Perfluorooctane sulfonic acid (6:2FTS)	27619-97-2	ng/g	ND	U	1.300	2.90	ND	U	1.400	3.0	ND	U	1.400	3.0
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	812-70-4	ng/g	ND	U	2.900	12.00	ND	U	3.000	12.0	ND	U	3.000	13.0
3-Perfluoropentylpropanoic acid (5:3 FTCA)	914637-49-3	ng/g	ND	U	2.000	12.00	ND	U	2.100	12.0	ND	U	2.100	13.0
3-Perfluoropropylpropanoic acid (3:3 FTCA)	356-02-5	ng/g	ND	U	0.690	2.40	ND	U	0.720	2.5	ND	U	0.720	2.5
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	919005-14-4	ng/g	ND	U	0.380	1.90	ND	U	0.400	2.0	ND	U	0.400	2.0
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9CI-PF3ONS)	756426-58-1	ng/g	ND	U	0.250	1.90	ND	U	0.260	2.0	ND	U	0.260	2.0
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	13252-13-6	ng/g	ND	U	0.250	1.90	ND	U	0.260	2.0	ND	U	0.260	2.0
N-ethylperfluorooctane sulfonamide (NEtFOSA)	4151-50-2	ng/g	ND	U	0.098	0.48	ND	U	0.100	0.5	ND	U	0.100	0.5

Sample Code			3B				3C				3D			
Lab Sample ID			180-175878-24				180-175878-20				180-175878-8			
Analyte	CAS	Units	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	1691-99-2	ng/g	ND	U	18.00 0	48.00	ND	U	19.00 0	50.0	ND	U	1.900	5.0
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2991-50-6	ng/g	ND	U	0.160	0.48	ND	U	0.170	0.5	ND	U	0.170	0.5
N-methylperfluorooctane sulfonamide (NMeFOSA)	31506-32-8	ng/g	ND	U	0.072	0.48	ND	U	0.075	0.5	ND	U	0.075	0.5
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	24448-09-7	ng/g	ND	U	0.650	4.80	ND	U	0.680	5.0	ND	U	0.680	5.0
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2355-31-9	ng/g	ND	U	0.200	0.48	ND	U	0.210	0.5	ND	U	0.210	0.5
Nonfluoro-3,6-dioxahexanoic acid (NFDHA)	151772-58-6	ng/g	ND	U	0.370	0.96	ND	U	0.390	1.0	ND	U	0.390	1.0
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	113507-82-7	ng/g	ND	U	0.220	0.96	ND	U	0.230	1.0	ND	U	0.230	1.0
Perfluoro-3-methoxypropanoic acid (PFMPA)	377-73-1	ng/g	ND	U	0.120	0.96	ND	U	0.120	1.0	ND	U	0.120	1.0
Perfluoro-4-methoxybutanoic acid (PFMBA)	863090-89-5	ng/g	ND	U	0.190	0.96	ND	U	0.200	1.0	ND	U	0.200	1.0
Perfluorobutanesulfonic acid (PFBS)	375-73-5	ng/g	ND	U	0.170	0.48	ND	U	0.170	0.5	ND	U	0.170	0.5
Perfluorobutanoic acid (PFBA)	375-22-4	ng/g	ND	U	0.350	1.90	ND	U	0.360	2.0	ND	U	0.360	2.0

Sample Code			3B				3C				3D			
Lab Sample ID			180-175878-24				180-175878-20				180-175878-8			
Analyte	CAS	Units	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL
Perfluorodecanesulfonic acid (PFDS)	335-77-3	ng/g	ND	U	0.190	0.48	ND	U	0.200	0.5	ND	U	0.200	0.5
Perfluorodecanoic acid (PFDA)	335-76-2	ng/g	0.71	J	0.210	0.48	0.65		0.210	0.5	0.44	J	0.220	0.5
Perfluorododecanesulfonic acid (PFDoS)	79780-39-5	ng/g	ND	U	0.100	0.48	ND	U	0.110	0.5	ND	U	0.110	0.5
Perfluorododecanoic acid (PFDoA)	307-55-1	ng/g	ND	U	0.076	0.48	0.21	J	0.079	0.5	0.2	J	0.079	0.5
Perfluoroheptanesulfonic acid (PFHpS)	375-92-8	ng/g	ND	U	0.120	0.48	ND	U	0.120	0.5	ND	U	1.200	5.0
Perfluoroheptanoic acid (PFHpA)	375-85-9	ng/g	ND	U	0.110	0.48	ND	U	0.120	0.5	ND	U	0.120	0.5
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	ng/g	ND	U	0.074	0.48	ND	U	0.077	0.5	ND	U	0.770	5.0
Perfluorohexanoic acid (PFHxA)	307-24-4	ng/g	1.2		0.160	0.48	ND	U	0.170	0.5	0.69	J	0.170	0.5
Perfluorononanesulfonic acid (PFNS)	68259-12-1	ng/g	ND	U	0.088	0.48	ND	U	0.092	0.5	ND	U	0.092	0.5
Perfluorononanoic acid (PFNA)	375-95-1	ng/g	0.54	J	0.150	0.48	ND	U	0.150	0.5	ND	U	0.150	0.5
Perfluorooctanesulfonamide (PFOSA)	754-91-6	ng/g	ND	U	0.090	0.48	ND	U	0.094	0.5	ND	U	0.094	0.5
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	ng/g	2		0.120	0.48	2.9		0.120	0.5	2.1		0.120	0.5
Perfluorooctanoic acid (PFOA)	335-67-1	ng/g	ND	U	0.200	0.48	ND	U	0.200	0.5	ND	U	0.200	0.5
Perfluoropentanesulfonic acid (PFPeS)	2706-91-4	ng/g	ND	U	0.088	0.48	ND	U	0.092	0.5	ND	U	0.920	5.0
Perfluoropentanoic acid (PFPeA)	2706-90-3	ng/g	ND	U	0.130	0.96	ND	U	0.130	1.0	ND	U	0.130	1.0
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	ng/g	ND	U	0.100	0.48	0.12	J	0.100	0.5	ND	U	0.110	0.5

Sample Code			3B				3C				3D			
Lab Sample ID			180-175878-24				180-175878-20				180-175878-8			
Analyte	CAS	Units	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	ng/g	1.6	J	0.077	0.48	0.19	J	0.080	0.5	0.11	J	0.080	0.5
Perfluoroundecanoic acid (PFUnA)	2058-94-8	ng/g	0.82	J	0.120	0.48	0.44	J	0.130	0.5	0.35	J	0.130	0.5

Sample Code			3E				3F				3G			
Lab Sample ID			180-175878-6				180-175878-25				180-175878-3			
Analyte	CAS	Units	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL
11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	763051-92-9	ng/g	ND	U	0.240	1.90	ND	U	0.240	1.90	ND	U	0.250	2.00
1H,1H, 2H, 2H-Perfluorodecane sulfonic acid (8:2FTS)	39108-34-4	ng/g	ND	U	0.660	1.90	ND	U	0.660	1.90	ND	U	0.670	2.00
1H,1H, 2H, 2H-Perfluorohexane sulfonic acid (4:2FTS)	757124-72-4	ng/g	ND	U	0.540	1.90	ND	U	0.540	1.90	ND	U	0.540	2.00
1H,1H, 2H, 2H-Perfluorooctane sulfonic acid (6:2FTS)	27619-97-2	ng/g	ND	U	1.300	2.90	ND	U	1.300	2.90	ND	U	1.400	2.90
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	812-70-4	ng/g	ND	U	2.900	12.00	ND	U	2.900	12.00	ND	U	2.900	12.00
3-Perfluoropentylpropanoic acid (5:3 FTCA)	914637-49-3	ng/g	ND	U	2.000	12.00	ND	U	2.000	12.00	ND	U	2.100	12.00

Sample Code			3E				3F				3G			
Lab Sample ID			180-175878-6				180-175878-25				180-175878-3			
Analyte	CAS	Units	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL
3-Perfluoropropylpropanoic acid (3:3 FTCA)	356-02-5	ng/g	ND	U	0.700	2.40	ND	U	0.700	2.40	ND	U	0.710	2.50
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	919005-14-4	ng/g	ND	U	0.390	1.90	ND	U	0.390	1.90	ND	U	0.390	2.00
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	756426-58-1	ng/g	ND	U	0.250	1.90	ND	U	0.250	1.90	ND	U	0.250	2.00
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	13252-13-6	ng/g	ND	U	0.250	1.90	ND	U	0.260	1.90	ND	U	0.260	2.00
N-ethylperfluorooctane sulfonamide (NEtFOSA)	4151-50-2	ng/g	ND	U	0.099	0.48	ND	U	0.099	0.49	ND	U	0.100	0.49
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	1691-99-2	ng/g	2.1	J	1.800	4.80	3.1	J	1.800	4.90	ND	U	1.800	4.90
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2991-50-6	ng/g	ND	U	0.170	0.48	ND	U	0.170	0.49	ND	U	0.170	0.49
N-methylperfluorooctane sulfonamide (NMeFOSA)	31506-32-8	ng/g	ND	U	0.072	0.48	ND	U	0.730	4.90	ND	U	0.074	0.49
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	24448-09-7	ng/g	ND	U	0.660	4.80	ND	U	0.660	4.90	ND	U	0.670	4.90
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2355-31-9	ng/g	ND	U	0.200	0.48	ND	U	0.200	0.49	ND	U	0.200	0.49

Sample Code			3E				3F				3G			
Lab Sample ID			180-175878-6				180-175878-25				180-175878-3			
Analyte	CAS	Units	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	151772-58-6	ng/g	ND	U	0.380	0.97	ND	U	0.380	0.97	ND	U	0.380	0.98
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	113507-82-7	ng/g	ND	U	0.220	0.97	ND	U	0.220	0.97	ND	U	0.230	0.98
Perfluoro-3-methoxypropanoic acid (PFMPA)	377-73-1	ng/g	ND	U	0.120	0.97	ND	U	0.120	0.97	ND	U	0.120	0.98
Perfluoro-4-methoxybutanoic acid (PFMBA)	863090-89-5	ng/g	ND	U	0.190	0.97	ND	U	0.190	0.97	ND	U	0.200	0.98
Perfluorobutanesulfonic acid (PFBS)	375-73-5	ng/g	ND	U	0.170	0.48	ND	U	0.170	0.49	ND	U	0.170	0.49
Perfluorobutanoic acid (PFBA)	375-22-4	ng/g	ND	U	0.350	1.90	ND	U	0.350	1.90	ND	U	0.360	2.00
Perfluorodecanesulfonic acid (PFDS)	335-77-3	ng/g	ND	U	0.200	0.48	ND	U	0.200	0.49	ND	U	0.200	0.49
Perfluorodecanoic acid (PFDA)	335-76-2	ng/g	0.49		0.210	0.48	0.47	J	0.210	0.49	0.24	J	0.210	0.49
Perfluorododecanesulfonic acid (PFDoS)	79780-39-5	ng/g	ND	U	0.110	0.48	ND	U	0.110	0.49	ND	U	0.110	0.49
Perfluorododecanoic acid (PFDoA)	307-55-1	ng/g	0.11	J	0.076	0.48	ND	U	0.077	0.49	0.12	J	0.077	0.49
Perfluoroheptanesulfonic acid (PFHpS)	375-92-8	ng/g	ND	U	0.120	0.48	ND	U	0.120	0.49	ND	U	0.120	0.49
Perfluoroheptanoic acid (PFHpA)	375-85-9	ng/g	ND	U	0.110	0.48	ND	U	0.120	0.49	ND	U	0.120	0.49
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	ng/g	ND	U	0.074	0.48	ND	U	0.075	0.49	ND	U	0.075	0.49
Perfluorohexanoic acid (PFHxA)	307-24-4	ng/g	ND	U	0.160	0.48	ND	U	0.160	0.49	ND	U	0.160	0.49

Sample Code			3E				3F				3G			
Lab Sample ID			180-175878-6				180-175878-25				180-175878-3			
Analyte	CAS	Units	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL
Perfluorononanesulfonic acid (PFNS)	68259-12-1	ng/g	ND	U	0.089	0.48	ND	U	0.089	0.49	ND	U	0.090	0.49
Perfluorononanoic acid (PFNA)	375-95-1	ng/g	0.21	J	0.150	0.48	0.44	J	0.150	0.49	ND	U	0.150	0.49
Perfluorooctanesulfonamide (PFOSA)	754-91-6	ng/g	ND	U	0.091	0.48	ND	U	0.091	0.49	ND	U	0.092	0.49
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	ng/g	1.4		0.120	0.48	2		0.120	0.49	0.41	J	0.120	0.49
Perfluorooctanoic acid (PFOA)	335-67-1	ng/g	ND	U	0.200	0.48	ND	U	0.200	0.49	ND	U	0.200	0.49
Perfluoropentanesulfonic acid (PFPeS)	2706-91-4	ng/g	ND	U	0.089	0.48	ND	U	0.089	0.49	ND	U	0.090	0.49
Perfluoropentanoic acid (PFPeA)	2706-90-3	ng/g	ND	U	0.130	0.97	ND	U	0.130	0.97	ND	U	0.130	0.98
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	ng/g	ND	U	0.100	0.48	ND	U	0.100	0.49	ND	U	0.100	0.49
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	ng/g	ND	U	0.077	0.48	0.88	J	0.078	0.49	ND	U	0.078	0.49
Perfluoroundecanoic acid (PFUnA)	2058-94-8	ng/g	0.3	J	0.120	0.48	0.31	J	0.130	0.49	0.2	J	0.130	0.49

Sample Code			3H				4A				4B			
Lab Sample ID			180-175878-23				180-175878-11				180-175878-14			
Analyte	CAS	Units	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL
11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	763051-92-9	ng/g	ND	U	0.250	2.0	ND	U	0.250	2.0	ND	U	0.240	1.90

Sample Code			3H				4A				4B			
Lab Sample ID			180-175878-23				180-175878-11				180-175878-14			
Analyte	CAS	Units	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL
1H,1H, 2H, 2H-Perfluorodecane sulfonic acid (8:2FTS)	39108-34-4	ng/g	ND	U	0.680	2.0	ND	U	0.680	2.0	ND	U	0.660	1.90
1H,1H, 2H, 2H-Perfluorohexane sulfonic acid (4:2FTS)	757124-72-4	ng/g	ND	U	0.560	2.0	ND	U	0.560	2.0	ND	U	0.540	1.90
1H,1H, 2H, 2H-Perfluorooctane sulfonic acid (6:2FTS)	27619-97-2	ng/g	ND	U	1.400	3.0	ND	U	1.400	3.0	ND	U	1.300	2.90
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	812-70-4	ng/g	ND	U	3.000	13.0	ND	U	3.000	13.0	ND	U	2.900	12.00
3-Perfluoropentylpropanoic acid (5:3 FTCA)	914637-49-3	ng/g	ND	U	2.100	13.0	ND	U	2.100	13.0	ND	U	2.000	12.00
3-Perfluoropropylpropanoic acid (3:3 FTCA)	356-02-5	ng/g	ND	U	0.720	2.5	ND	U	0.720	2.5	ND	U	0.700	2.40
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	919005-14-4	ng/g	ND	U	0.400	2.0	ND	U	0.400	2.0	ND	U	0.390	1.90
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	756426-58-1	ng/g	ND	U	0.260	2.0	ND	U	0.260	2.0	ND	U	0.250	1.90
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	13252-13-6	ng/g	ND	U	0.260	2.0	ND	U	0.260	2.0	ND	U	0.250	1.90
N-ethylperfluorooctane sulfonamide (NEtFOSA)	4151-50-2	ng/g	ND	U	0.100	0.5	ND	U	0.100	0.5	ND	U	0.099	0.48
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	1691-99-2	ng/g	ND	U	19.00 0	50.0	ND	U	1.900	5.0	ND	U	1.800	4.80

Sample Code			3H				4A				4B			
Lab Sample ID			180-175878-23				180-175878-11				180-175878-14			
Analyte	CAS	Units	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2991-50-6	ng/g	ND	U	0.170	0.5	ND	U	0.170	0.5	ND	U	0.170	0.48
N-methylperfluorooctane sulfonamide (NMeFOSA)	31506-32-8	ng/g	ND	U	0.075	0.5	ND	U	0.075	0.5	ND	U	0.072	0.48
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	24448-09-7	ng/g	ND	U	0.670	5.0	ND	U	0.680	5.0	ND	U	0.660	4.80
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2355-31-9	ng/g	ND	U	0.210	0.5	ND	U	0.210	0.5	ND	U	0.200	0.48
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	151772-58-6	ng/g	ND	U	0.390	1.0	ND	U	0.390	1.0	ND	U	0.380	0.97
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	113507-82-7	ng/g	ND	U	0.230	1.0	ND	U	0.230	1.0	ND	U	0.220	0.97
Perfluoro-3-methoxypropanoic acid (PFMPA)	377-73-1	ng/g	ND	U	0.120	1.0	ND	U	0.120	1.0	ND	U	0.120	0.97
Perfluoro-4-methoxybutanoic acid (PFMBA)	863090-89-5	ng/g	ND	U	0.200	1.0	ND	U	0.200	1.0	ND	U	0.190	0.97
Perfluorobutanesulfonic acid (PFBS)	375-73-5	ng/g	ND	U	0.170	0.5	ND	U	0.170	0.5	ND	U	0.170	0.48
Perfluorobutanoic acid (PFBA)	375-22-4	ng/g	ND	U	0.360	2.0	ND	U	0.360	2.0	ND	U	0.350	1.90
Perfluorodecanesulfonic acid (PFDS)	335-77-3	ng/g	ND	U	0.200	0.5	ND	U	0.200	0.5	ND	U	0.200	0.48
Perfluorodecanoic acid (PFDA)	335-76-2	ng/g	0.52		0.220	0.5	0.49	J	0.220	0.5	0.27	J	0.210	0.48

Sample Code			3H				4A				4B			
Lab Sample ID			180-175878-23				180-175878-11				180-175878-14			
Analyte	CAS	Units	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL
Perfluorododecanesulfonic acid (PFDoS)	79780-39-5	ng/g	ND	U	0.110	0.5	ND	U	0.110	0.5	ND	U	0.110	0.48
Perfluorododecanoic acid (PFDoA)	307-55-1	ng/g	0.22	J	0.079	0.5	0.19	J	0.079	0.5	0.2	J	0.076	0.48
Perfluoroheptanesulfonic acid (PFHpS)	375-92-8	ng/g	ND	U	0.120	0.5	ND	U	0.120	0.5	ND	U	1.200	4.80
Perfluoroheptanoic acid (PFHpA)	375-85-9	ng/g	ND	U	0.120	0.5	ND	U	0.120	0.5	0.16	J	0.110	0.48
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	ng/g	ND	U	0.077	0.5	ND	U	0.077	0.5	ND	U	0.740	4.80
Perfluorohexanoic acid (PFHxA)	307-24-4	ng/g	ND	U	0.170	0.5	ND	U	0.170	0.5	ND	U	0.160	0.48
Perfluorononanesulfonic acid (PFNS)	68259-12-1	ng/g	ND	U	0.092	0.5	ND	U	0.092	0.5	ND	U	0.089	0.48
Perfluorononanoic acid (PFNA)	375-95-1	ng/g	ND	U	0.150	0.5	0.19	J	0.150	0.5	ND	U	0.150	0.48
Perfluorooctanesulfonamide (PFOSA)	754-91-6	ng/g	ND	U	0.094	0.5	ND	U	0.094	0.5	ND	U	0.091	0.48
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	ng/g	0.88		0.120	0.5	1.6		0.120	0.5	1.3		0.120	0.48
Perfluorooctanoic acid (PFOA)	335-67-1	ng/g	ND	U	0.200	0.5	ND	U	0.200	0.5	ND	U	0.200	0.48
Perfluoropentanesulfonic acid (PFPeS)	2706-91-4	ng/g	ND	U	0.092	0.5	ND	U	0.092	0.5	ND	U	0.890	4.80
Perfluoropentanoic acid (PFPeA)	2706-90-3	ng/g	ND	U	0.130	1.0	ND	U	0.130	1.0	ND	U	0.130	0.97
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	ng/g	0.11	J	0.110	0.5	ND	U	0.110	0.5	ND	U	0.100	0.48
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	ng/g	0.14	J	0.080	0.5	0.089	J	0.080	0.5	0.12	J	0.077	0.48
Perfluoroundecanoic acid (PFUnA)	2058-94-8	ng/g	0.28	J	0.130	0.5	0.33	J	0.130	0.5	0.29	J	0.120	0.48

Sample Code			4C				4D				4E			
Lab Sample ID			180-175878-13				180-175878-16				180-175878-18			
Analyte	CAS	Units	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11CI-PF3OUdS)	763051-92-9	ng/g	ND	U	0.240	1.90	ND	U	0.240	2.00	ND	U	0.240	2.00
1H,1H, 2H, 2H-Perfluorodecane sulfonic acid (8:2FTS)	39108-34-4	ng/g	ND	U	0.660	1.90	ND	U	0.670	2.00	ND	U	0.670	2.00
1H,1H, 2H, 2H-Perfluorohexane sulfonic acid (4:2FTS)	757124-72-4	ng/g	ND	U	0.530	1.90	ND	U	0.540	2.00	ND	U	0.540	2.00
1H,1H, 2H, 2H-Perfluorooctane sulfonic acid (6:2FTS)	27619-97-2	ng/g	ND	U	1.300	2.90	ND	U	1.400	2.90	ND	U	1.400	2.90
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	812-70-4	ng/g	ND	U	2.900	12.00	ND	U	2.900	12.00	ND	U	2.900	12.00
3-Perfluoropentylpropanoic acid (5:3 FTCA)	914637-49-3	ng/g	ND	U	2.000	12.00	ND	U	2.100	12.00	ND	U	2.100	12.00
3-Perfluoropropylpropanoic acid (3:3 FTCA)	356-02-5	ng/g	ND	U	0.690	2.40	ND	U	0.700	2.40	ND	U	0.700	2.40
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	919005-14-4	ng/g	ND	U	0.380	1.90	ND	U	0.390	2.00	ND	U	0.390	2.00
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9CI-PF3ONS)	756426-58-1	ng/g	ND	U	0.250	1.90	ND	U	0.250	2.00	ND	U	0.250	2.00
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	13252-13-6	ng/g	ND	U	0.250	1.90	ND	U	0.260	2.00	ND	U	2.600	20.00

Sample Code			4C				4D				4E			
Lab Sample ID			180-175878-13				180-175878-16				180-175878-18			
Analyte	CAS	Units	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL
N-ethylperfluorooctane sulfonamide (NEtFOSA)	4151-50-2	ng/g	0.12	J	0.098	0.48	ND	U	0.100	0.49	ND	U	0.100	0.49
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	1691-99-2	ng/g	2.20	J	1.800	4.80	ND	U	1.800	4.90	ND	U	18.00 0	49.00
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2991-50-6	ng/g	ND	U	0.160	0.48	ND	U	0.170	0.49	ND	U	0.170	0.49
N-methylperfluorooctane sulfonamide (NMeFOSA)	31506-32-8	ng/g	ND	U	0.072	0.48	ND	U	0.073	0.49	ND	U	0.073	0.49
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	24448-09-7	ng/g	0.67	J	0.650	4.80	ND	U	0.660	4.90	ND	U	0.660	4.90
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2355-31-9	ng/g	ND	U	0.200	0.48	ND	U	0.200	0.49	ND	U	0.200	0.49
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	151772-58-6	ng/g	ND	U	0.370	0.96	ND	U	0.380	0.98	ND	U	0.380	0.98
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	113507-82-7	ng/g	ND	U	0.220	0.96	ND	U	0.220	0.98	ND	U	0.220	0.98
Perfluoro-3-methoxypropanoic acid (PFMPA)	377-73-1	ng/g	ND	U	0.120	0.96	ND	U	0.120	0.98	ND	U	0.120	0.98
Perfluoro-4-methoxybutanoic acid (PFMBA)	863090-89-5	ng/g	ND	U	0.190	0.96	ND	U	0.200	0.98	ND	U	0.200	0.98

Sample Code			4C				4D				4E			
Lab Sample ID			180-175878-13				180-175878-16				180-175878-18			
Analyte	CAS	Units	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL
Perfluorobutanesulfonic acid (PFBS)	375-73-5	ng/g	ND	U	0.170	0.48	ND	U	0.170	0.49	ND	U	0.170	0.49
Perfluorobutanoic acid (PFBA)	375-22-4	ng/g	ND	U	0.350	1.90	ND	U	0.360	2.00	ND	U	0.360	2.00
Perfluorodecanesulfonic acid (PFDS)	335-77-3	ng/g	ND	U	0.190	0.48	ND	U	0.200	0.49	ND	U	0.200	0.49
Perfluorodecanoic acid (PFDA)	335-76-2	ng/g	0.63		0.210	0.48	0.23	J	0.210	0.49	0.42	J	0.210	0.49
Perfluorododecanesulfonic acid (PFDoS)	79780-39-5	ng/g	ND	U	0.100	0.48	ND	U	0.110	0.49	ND	U	0.110	0.49
Perfluorododecanoic acid (PFDoA)	307-55-1	ng/g	0.18	J	0.076	0.48	ND	U	0.077	0.49	ND	U	0.077	0.49
Perfluoroheptanesulfonic acid (PFHpS)	375-92-8	ng/g	ND	U	0.120	0.48	ND	U	0.120	0.49	ND	U	0.120	0.49
Perfluoroheptanoic acid (PFHpA)	375-85-9	ng/g	ND	U	0.110	0.48	ND	U	0.120	0.49	ND	U	0.120	0.49
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	ng/g	ND	U	0.074	0.48	ND	U	0.075	0.49	ND	U	0.075	0.49
Perfluorohexanoic acid (PFHxA)	307-24-4	ng/g	0.8	J	0.160	0.48	ND	U	0.160	0.49	ND	U	0.160	0.49
Perfluorononanesulfonic acid (PFNS)	68259-12-1	ng/g	ND	U	0.088	0.48	ND	U	0.090	0.49	ND	U	0.090	0.49
Perfluorononanoic acid (PFNA)	375-95-1	ng/g	0.34	J	0.150	0.48	ND	U	0.150	0.49	0.43	J	0.150	0.49
Perfluorooctanesulfonamide (PFOSA)	754-91-6	ng/g	ND	U	0.090	0.48	ND	U	0.092	0.49	ND	U	0.092	0.49
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	ng/g	1.7		0.120	0.48	0.55		0.120	0.49	0.82		0.120	0.49
Perfluorooctanoic acid (PFOA)	335-67-1	ng/g	ND	U	0.200	0.48	ND	U	0.200	0.49	ND	U	0.200	0.49
Perfluoropentanesulfonic acid (PFPeS)	2706-91-4	ng/g	ND	U	0.088	0.48	ND	U	0.090	0.49	ND	U	0.090	0.49

Sample Code			4C				4D				4E			
Lab Sample ID			180-175878-13				180-175878-16				180-175878-18			
Analyte	CAS	Units	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL
Perfluoropentanoic acid (PFPeA)	2706-90-3	ng/g	ND	U	0.130	0.96	ND	U	0.130	0.98	ND	U	0.130	0.98
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	ng/g	0.11	J	0.100	0.48	ND	U	0.100	0.49	ND	U	0.100	0.49
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	ng/g	ND	U	0.077	0.48	ND	U	0.078	0.49	ND	U	0.078	0.49
Perfluoroundecanoic acid (PFUnA)	2058-94-8	ng/g	0.33	J	0.120	0.48	0.19	J	0.130	0.49	0.16	J	0.130	0.49

Sample Code			5A				5B				5C			
Lab Sample ID			180-175878-12				180-175878-22				180-175878-2			
Analyte	CAS	Units	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	763051-92-9	ng/g	ND	U	0.250	2.00	ND	U	0.250	2.0	ND	U	0.250	2.00
1H,1H, 2H, 2H-Perfluorodecane sulfonic acid (8:2FTS)	39108-34-4	ng/g	ND	U	0.670	2.00	ND	U	0.680	2.0	ND	U	0.680	2.00
1H,1H, 2H, 2H-Perfluorohexane sulfonic acid (4:2FTS)	757124-72-4	ng/g	ND	U	0.550	2.00	ND	U	0.560	2.0	ND	U	0.550	2.00
1H,1H, 2H, 2H-Perfluorooctane sulfonic acid (6:2FTS)	27619-97-2	ng/g	ND	U	1.400	3.00	ND	U	1.400	3.0	ND	U	1.400	3.00
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	812-70-4	ng/g	ND	U	2.900	12.00	ND	U	3.000	13.0	ND	U	2.900	12.00
3-Perfluoropentylpropanoic acid (5:3 FTCA)	914637-49-3	ng/g	ND	U	2.100	12.00	ND	U	2.100	13.0	ND	U	2.100	12.00

Sample Code			5A				5B				5C			
Lab Sample ID			180-175878-12				180-175878-22				180-175878-2			
Analyte	CAS	Units	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL
3-Perfluoropropylpropanoic acid (3:3 FTCA)	356-02-5	ng/g	ND	U	0.710	2.50	ND	U	0.720	2.5	ND	U	0.710	2.50
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	919005-14-4	ng/g	ND	U	0.390	2.00	ND	U	0.400	2.0	ND	U	0.400	2.00
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9CI-PF3ONS)	756426-58-1	ng/g	ND	U	0.250	2.00	ND	U	0.260	2.0	ND	U	0.260	2.00
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	13252-13-6	ng/g	ND	U	0.260	2.00	ND	U	0.260	2.0	ND	U	0.260	2.00
N-ethylperfluorooctane sulfonamide (NEtFOSA)	4151-50-2	ng/g	ND	U	0.100	0.49	ND	U	0.100	0.5	ND	U	0.100	0.50
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	1691-99-2	ng/g	ND	U	1.800	4.90	ND	U	19.00 0	50.0	ND	U	1.800	5.00
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2991-50-6	ng/g	ND	U	0.170	0.49	ND	U	0.170	0.5	ND	U	0.170	0.50
N-methylperfluorooctane sulfonamide (NMeFOSA)	31506-32-8	ng/g	ND	U	0.074	0.49	ND	U	0.075	0.5	ND	U	0.074	0.50
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	24448-09-7	ng/g	0.72	J	0.670	4.90	ND	U	0.670	4.9	ND	U	0.670	5.00
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2355-31-9	ng/g	ND	U	0.210	0.49	ND	U	0.210	0.5	ND	U	0.210	0.50

Sample Code			5A				5B				5C			
Lab Sample ID			180-175878-12				180-175878-22				180-175878-2			
Analyte	CAS	Units	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL
Nonafluoro-3,6-dioxahexanoic acid (NFDHA)	151772-58-6	ng/g	ND	U	0.380	0.99	ND	U	0.390	1.0	ND	U	0.390	0.99
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	113507-82-7	ng/g	ND	U	0.230	0.99	ND	U	0.230	1.0	ND	U	0.230	0.99
Perfluoro-3-methoxypropanoic acid (PFMPA)	377-73-1	ng/g	ND	U	0.120	0.99	ND	U	0.120	1.0	ND	U	0.120	0.99
Perfluoro-4-methoxybutanoic acid (PFMBA)	863090-89-5	ng/g	ND	U	0.200	0.99	ND	U	0.200	1.0	ND	U	0.200	0.99
Perfluorobutanesulfonic acid (PFBS)	375-73-5	ng/g	ND	U	0.170	0.49	ND	U	0.170	0.5	ND	U	0.170	0.50
Perfluorobutanoic acid (PFBA)	375-22-4	ng/g	ND	U	0.360	2.00	ND	U	0.360	2.0	ND	U	0.360	2.00
Perfluorodecanesulfonic acid (PFDS)	335-77-3	ng/g	ND	U	0.200	0.49	ND	U	0.200	0.5	ND	U	0.200	0.50
Perfluorodecanoic acid (PFDA)	335-76-2	ng/g	0.28	J	0.210	0.49	0.27	J	0.220	0.5	0.53		0.210	0.50
Perfluorododecanesulfonic acid (PFDoS)	79780-39-5	ng/g	ND	U	0.110	0.49	ND	U	0.110	0.5	ND	U	0.110	0.50
Perfluorododecanoic acid (PFDoA)	307-55-1	ng/g	0.17	J	0.078	0.49	0.14	J	0.079	0.5	0.14	J	0.078	0.50
Perfluoroheptanesulfonic acid (PFHpS)	375-92-8	ng/g	ND	U	0.120	0.49	ND	U	0.120	0.5	ND	U	0.120	0.50
Perfluoroheptanoic acid (PFHpA)	375-85-9	ng/g	ND	U	0.120	0.49	ND	U	0.120	0.5	ND	U	0.120	0.50
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	ng/g	ND	U	0.076	0.49	ND	U	0.077	0.5	ND	U	0.076	0.50
Perfluorohexanoic acid (PFHxA)	307-24-4	ng/g	ND	U	0.160	0.49	ND	U	0.170	0.5	ND	U	0.160	0.50

Sample Code			5A				5B				5C			
Lab Sample ID			180-175878-12				180-175878-22				180-175878-2			
Analyte	CAS	Units	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL
Perfluorononanesulfonic acid (PFNS)	68259-12-1	ng/g	ND	U	0.091	0.49	ND	U	0.092	0.5	ND	U	0.091	0.50
Perfluorononanoic acid (PFNA)	375-95-1	ng/g	ND	U	0.150	0.49	ND	U	0.150	0.5	0.24	J	0.150	0.50
Perfluorooctanesulfonamide (PFOSA)	754-91-6	ng/g	ND	U	0.093	0.49	ND	U	0.094	0.5	ND	U	0.093	0.50
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	ng/g	0.58		0.120	0.49	0.47	J	0.120	0.5	1.5		0.120	0.50
Perfluorooctanoic acid (PFOA)	335-67-1	ng/g	ND	U	0.200	0.49	ND	U	0.200	0.5	ND	U	0.200	0.50
Perfluoropentanesulfonic acid (PFPeS)	2706-91-4	ng/g	ND	U	0.091	0.49	ND	U	0.092	0.5	ND	U	0.091	0.50
Perfluoropentanoic acid (PFPeA)	2706-90-3	ng/g	ND	U	0.130	0.99	ND	U	0.130	1.0	ND	U	0.130	0.99
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	ng/g	0.14	J	0.100	0.49	ND	U	0.110	0.5	ND	U	0.100	0.50
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	ng/g	0.17	J	0.079	0.49	0.12	J	0.080	0.5	ND	U	0.079	0.50
Perfluoroundecanoic acid (PFUnA)	2058-94-8	ng/g	0.27	J	0.130	0.49	0.24	J	0.130	0.5	0.33	J	0.130	0.50

Sample Code			5D			
Lab Sample ID			180-175878-1			
Analyte	CAS	Units	Result	Qualifier	MDL	RL
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	763051-92-9	ng/g	ND	U	0.250	2.0
1H,1H, 2H, 2H-Perfluorodecane sulfonic acid (8:2FTS)	39108-34-4	ng/g	ND	U	0.680	2.0

Sample Code			5D			
Lab Sample ID			180-175878-1			
Analyte	CAS	Units	Result	Qualifier	MDL	RL
1H,1H, 2H, 2H-Perfluorohexane sulfonic acid (4:2FTS)	757124-72-4	ng/g	ND	U	0.560	2.0
1H,1H, 2H, 2H-Perfluorooctane sulfonic acid (6:2FTS)	27619-97-2	ng/g	ND	U	1.400	3.0
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	812-70-4	ng/g	ND	U	3.000	13.0
3-Perfluoropentylpropanoic acid (5:3 FTCA)	914637-49-3	ng/g	ND	U	2.100	13.0
3-Perfluoropropylpropanoic acid (3:3 FTCA)	356-02-5	ng/g	ND	U	0.720	2.5
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	919005-14-4	ng/g	ND	U	0.400	2.0
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	756426-58-1	ng/g	ND	U	0.260	2.0
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	13252-13-6	ng/g	0.3	J	0.260	2.0
N-ethylperfluorooctane sulfonamide (NEtFOSA)	4151-50-2	ng/g	ND	U	0.100	0.5
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	1691-99-2	ng/g	ND	U	1.900	5.0
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2991-50-6	ng/g	ND	U	0.170	0.5
N-methylperfluorooctane sulfonamide (NMeFOSA)	31506-32-8	ng/g	ND	U	0.075	0.5
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	24448-09-7	ng/g	ND	U	0.680	5.0
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2355-31-9	ng/g	ND	U	0.210	0.5
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	151772-58-6	ng/g	ND	U	0.390	1.0
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	113507-82-7	ng/g	ND	U	0.230	1.0

Sample Code			5D			
Lab Sample ID			180-175878-1			
Analyte	CAS	Units	Result	Qualifier	MDL	RL
Perfluoro-3-methoxypropanoic acid (PFMPA)	377-73-1	ng/g	ND	U	0.120	1.0
Perfluoro-4-methoxybutanoic acid (PFMBA)	863090-89-5	ng/g	ND	U	0.200	1.0
Perfluorobutanesulfonic acid (PFBS)	375-73-5	ng/g	ND	U	0.170	0.5
Perfluorobutanoic acid (PFBA)	375-22-4	ng/g	ND	U	0.360	2.0
Perfluorodecanesulfonic acid (PFDS)	335-77-3	ng/g	ND	U	0.200	0.5
Perfluorodecanoic acid (PFDA)	335-76-2	ng/g	0.31	J	0.220	0.5
Perfluorododecanesulfonic acid (PFDoS)	79780-39-5	ng/g	ND	U	0.110	0.5
Perfluorododecanoic acid (PFDoA)	307-55-1	ng/g	ND	U	0.079	0.5
Perfluoroheptanesulfonic acid (PFHpS)	375-92-8	ng/g	ND	U	0.120	0.5
Perfluoroheptanoic acid (PFHpA)	375-85-9	ng/g	ND	U	0.120	0.5
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	ng/g	ND	U	0.077	0.5
Perfluorohexanoic acid (PFHxA)	307-24-4	ng/g	ND	U	0.170	0.5
Perfluorononanesulfonic acid (PFNS)	68259-12-1	ng/g	ND	U	0.092	0.5
Perfluorononanoic acid (PFNA)	375-95-1	ng/g	0.32	J	0.150	0.5
Perfluorooctanesulfonamide (PFOSA)	754-91-6	ng/g	ND	U	0.094	0.5
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	ng/g	0.83		0.120	0.5

Sample Code			5D			
Lab Sample ID			180-175878-1			
Analyte	CAS	Units	Result	Qualifier	MDL	RL
Perfluorooctanoic acid (PFOA)	335-67-1	ng/g	ND	U	0.200	0.5
Perfluoropentanesulfonic acid (PFPeS)	2706-91-4	ng/g	ND	U	0.092	0.5
Perfluoropentanoic acid (PFPeA)	2706-90-3	ng/g	ND	U	0.130	1.0
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	ng/g	ND	U	0.110	0.5
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	ng/g	ND	U	0.080	0.5
Perfluoroundecanoic acid (PFUnA)	2058-94-8	ng/g	ND	U	0.130	0.5

J (Estimated): The reported result was an estimated quantity value.

U (Non-detected): The analyte was not detected above the level of the adjusted detection limit or quantitation limit, as appropriate.