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San Francisco Bay California Toxics Rule Priority Pollutant Ambient Water Monitoring Report

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Contents

1. Introduction and Purpose of the Report

a. Monitoring needs

In 2000, the USEPA published *Water Quality Standards; Establishment of Numeric Objectives for Priority Toxic Pollutants for the State of California*, commonly known as the California Toxics Rule (CTR), which established numeric water quality standards for 126 priority pollutants. Under the *Policy for Implementation of Toxics Standards for Inland Surface Waters, Enclosed Bays, and Estuaries of California* (also known as the State Implementation Policy, SIP) the San Francisco Bay Regional Water Quality Control Board (SFBRWQCB) is required to establish water quality-based effluent limitations in order to achieve priority pollutant standards.

For the purposes of this document "water quality criteria" (WQCs) will be used to refer both to the CTR established numeric criteria for 126 priority pollutants as well as to numeric objectives for 12 of these priority pollutants and tributyltin previously established in the San Francisco Bay Water Quality Control Plan (Basin Plan) and/or the National Toxics Rule. A number of these pollutants previously were or continue to be regularly monitored as part of the Regional Monitoring Program Status and Trends (RMP S&T). The priority pollutants not routinely included in RMP S&T were previously monitored in wet and dry season ambient water sampling in 2002 and 2003. Results of that effort are detailed in a previously issued report:
http://www.sfei.org/documents/san-francisco-bay-ambient-monitoring-interim-report

Most of the priority pollutants were not detected in that study, or detected at concentrations below their WQC. Among the pollutants that were detected, a number of them were also found at similar concentrations in lab blanks, suggesting they might not have been present (or at least were at lower concentrations) in the ambient environment. Since over a decade had passed since that previous monitoring effort, the RMP embarked on an effort to repeat measurement of these seldom analyzed (non- S&T) contaminants, to ensure conditions have not changed appreciably to present greater risk for any of them.

b. Priority pollutants of interest

There are 126 priority pollutants listed in Enclosure A from the SFBRWQCB August 2001 13267 request for the previous monitoring effort (Appendix 1). That letter also listed numeric WQC for these pollutants, suggested analytical methods, and their minimum levels (MLs) from the SIP. Aside from the contaminants measured in water for the RMP S&T, and the previous CTR study in 2002 - 2003, data on ambient concentrations of most of the priority pollutants have been sparse.

Approaches taken for analyzing pollutants in this study used standard methods, unlike the previous effort in 2002 to 2003, where modified methods were attempted to get lower detection limits, with no useful additional detects for target compounds.

2. Approach

This section describes the basis for the sampling and analytical approaches taken in the study. The spatial and temporal scope of this study is greatly reduced relative to the effort employed for monitoring other priority pollutants under the RMP S&T.

a. Sampling locations and times

This study sampled ambient waters at three locations in the San Francisco Estuary, on one occasion in 2015 during the RMP S&T water sampling cruise. The sampling sites were at historical RMP fixed sampling stations (RMP currently uses a partially random location sampling scheme) at Dumbarton Bridge (BA30), Yerba Buena Island (BC10), and Sacramento River (BG20). These sites were selected to approximately represent the range of waters to which pollutants are discharged in the region.

The site at Yerba Buena Island, near the Golden Gate, is frequently exchanged with water from the Pacific Ocean under most conditions throughout the year. Discharges to the Central Bay are mixed and diluted in these waters, which typically possess dominantly oceanic characteristics. This is evident in the salinities and other basic water quality parameters measured at this site as well as in the concentrations of pollutants, which generally do not deviate greatly from those at the RMP site at Golden Gate located several miles offshore.

In contrast, the site at Sacramento River will largely reflect waters from inland watersheds including much of the Sierra Nevada range and the California Central Valley. Because of the complex interconnections of the Sacramento and San Joaquin River throughout the Delta (further complicated by water management activities at dams and water export pumps upstream), this site reflects a mix of Sacramento and San Joaquin River waters, with a minor influence of San Francisco Bay/Pacific Ocean waters.

The site near Dumbarton Bridge represents a mix of oceanic waters coming through the Golden Gate, combined with freshwater inputs from surrounding watersheds and wastewater discharges. The input of fresh water is much smaller than at the Sacramento River, given the much smaller watershed area draining to the South Bay. In addition, the exchange with oceanic water is much smaller than at Yerba Buena, because of the greater distance from the Golden Gate. A model of a conservative tracer originating from a wastewater treatment plant in the South Bay (Gross 1997) estimated residence times of approximately 20 days.

b. Sample collection and handling

The sample collection and handling methods generally followed those employed for the RMP S&T. Sampling materials and preparation, collection, and storage methods were chosen with the aim of minimizing potential sample contamination, loss and degradation. The parameters fell into two general categories requiring different materials and preparation and collection methods: trace elements and polar compounds, and organic compounds, including volatiles, semi-volatiles (VOCs/SVOCs), and

organochlorine pesticides. Some ancillary measures of water quality (DOC, POC, SSC, hardness, total solids) were also collected to generally characterize the collected water. Sizes of the samples collected for laboratory analyses are summarized in Table 1.

Trace elements (antimony, beryllium, thallium) some more polar organic pollutants (cyanide, tributyltin), and ancillary water quality samples were collected by SFEI staff using standard RMP methods; sample containers for trace elements and pump tubing were cleaned by soaking in acid followed by deionized water rinses. Site water was collected with a peristaltic pump through tubing extended on a pole up-current and upwind of the boat and sampling personnel, weighted to collect water ~1m below the water surface. Sample containers prepared by BAL for trace element analyses by their laboratory were cleaned and stored empty, then rinsed and filled at least three times with site water. Containers for analysis of cyanide and water quality parameters (hardness, and SSC) by ALS were pre-cleaned and rinsed with site water 2 to 3 times, and filled. A 2 L jug for collecting DOC and POC sample was rinsed 3 times with site water and filled, then filtered through a glass fiber filter (nominal 0.7 um pore size) until the filter clogged. If less than 250 mL had been filtered a second filter was processed. The filter (for POC) was folded in a sheet of aluminum foil, stored in a plastic bag, and frozen on dry ice in the field. A portion of the filtrate for DOC analysis was then poured into a 250 mL bottle containing acid preservative without rinsing. Sample bottles (glass 1 L) for tributyltin analysis by Caltest were sent pre-cleaned, rinsed with site water, and filled. Liquid samples were stored onboard covered in coolers with ice packs.

The samples for volatile organic compounds (VOCs), SVOCs, and pesticides were also collected using the peristaltic pump, but they were instead stored in pre-cleaned tightly capped glass bottles or vials, with a minimum of headspace to prevent volatilization losses. At each site, 2 sample vials with preservative and 2 without were collected for VOCs. The VOC sample vials were filled taking care to minimize turbulence during filling and to minimize visible air pockets, although some of the vials with preservative at BA30 (the first day) were initially under-filled due to concern over washing out the preservative. That site was revisited on a later date to fill new vials without headspace. All samples were successfully collected with minimal to no headspace (pea-sized, <0.2 mL). SVOC and pesticide sample bottles were also collected with minimal or no headspace, but due to their much larger volume, achieving no headspace was less critical. Samples were stored in coolers with ice packs after collection while still onboard the ship.

On return to shore, samples were transported by automobile in coolers to Applied Marine Sciences (AMS). Some samples (for analytes with short holding times) were shipped immediately, and the others were stored overnight in freezers (for POC) or refrigerators at <5 degrees C. Chilled samples were shipped with gel ice packs in coolers to the respective laboratories, where they were stored in laboratory refrigerators until extraction and analysis.

c. Analytical Methods

BAL analyzed the CTR metals not usually included in the RMP S&T via ICP-MS with MDLs around or below the SIP suggested MLs (0.5, 0.5, and 1 ug/L for Sb, Be, and Tl respectively) and below their respective WQCs (14 and 1.7 µg/L for Sb and Tl respectively, there is no published Be criterion). Estimated MDLs for Sb, Be, and Tl were around 0.2, 0.02, and 0.003 ug/L respectively, well under their WQCs. A review article (Nozaki 1997) compiled data from the scientific literature on the concentrations of elements in the North Pacific. Antimony is estimated in seawater at around 0.2 µg/kg (ppb), while beryllium is at 0.21 ng/kg (ppt, approximately ~ng/L), and thallium is found at 13 ng/kg (ppt). These elements would therefore often not be detected in measurements of uncontaminated ocean water by ICP-MS. No pre-concentrations or other special handling of samples was necessary; detection limits nearly a factor of 100 or more below would already indicate with a high degree of certainty whether or not WQCs were exceeded. Although chromium was an RMP S&T target analyte at the time of the previous CTR study, it has since been dropped, so samples were also analyzed for (total) chromium in this effort, with an MDL of 0.05 ug/L, well under the WQC for Cr(VI) (11 ug/L), even with the worst case assumption that all the chromium was only that more toxic form.

For the VOCs and SVOCs, the analytical laboratory reported these compounds using the standard EPA Methods 624 and 625. Using those methods as published would leave a number of pollutants with MDLs (with yet higher reporting limits and MLs) above their WQCs, but we did not employ enhanced methods to try and quantify these few analytes, since the prior effort in 2002 to 2003 yielded no useful detected results. Organochlorine pesticides were analyzed using EPA Method 608.

In the previous CTR monitoring special study, PCDD/Fs (dibenzo dioxins and furans) were measured, but water samples had been collected and analyzed in 2009 and 2011 as part of the RMP Dioxin Strategy, so additional samples were not collected in 2015.

2. Results and Discussion

Results discussed here will focus on the latest round of sampling, summarized in Table 2. However, results from the previous round of CTR sampling (2002-2003) as well as results from RMP S&T sampling for the more routinely reported CTR analytes are included for convenience in appendix tables.

a. VOCs/SVOCs/pesticides

i. QA results

Results on QA samples were generally within targets for the VOCs, SVOCs, and pesticides analyzed in this study, with none of these compounds detected in field or lab blanks. Matrix spike and blank spike recoveries were also generally within acceptance ranges for their analytical methods, all biased low (<100%). Although some recoveries were even <50%, the method acceptance ranges on many of VOCs and SVOCs are very wide, extending to as low as the detection limit on some. However, we followed RMP conventions and flagged all analytes with recovery errors >35% (<65% recovery) to indicate their marginal quantitation, but none were censored. Precision was determined from matrix spike/duplicate pairs, with only one compound outside of the target 35% RPD/RSD, and none censored.

ii. Ambient sample results

Results from the analyses of ambient samples for VOCs, SVOCs, and pesticides are shown in Table 2. None of these compounds were detected in any of the collected samples analyzed in this effort. Although results from matrix or/and blank spikes suggest results that were biased low (but still within method acceptance limits), even for the compounds with the lowest recoveries (around 30%), even after accounting for a three-fold underestimate, concentrations would still be well below WQCs, which were generally multiple orders of magnitude higher.

Many of the organochlorine pesticides have been detected in previous RMP S&T water sampling, but those results were obtained using pre-concentration methods that yielded MDLs much lower than obtained by EPA Method 608, so the lack of detects for any target pesticides in this sampling was expected. The lack of detected results for any of the VOCs and SVOCs is also not surprising given the previous widespread non-detects (in 2002-2003) and their physical properties, discussed in the previous study report. Low molecular weight non-polar organic compounds in surface waters will readily volatilize and exchange with the atmosphere, so unless 1) atmospheric concentrations are high enough to result in net flux to the water or 2) a sample is taken from near a source of these compounds, measurable aqueous concentrations in ambient surface water samples will seldom be encountered. Table 3 lists several of the VOCs and SVOCs included on the CTR list, with their estimated volatilization half lives in surface waters at 20 degrees C (Lyman et al. 1990). The majority of the VOCs have half-lives on the order of 4 hours

or less, but even nitrobenzene, with a half-life of 45 hours, would volatilize to 1% of its initial concentration after about 12 days.

Additional losses from estuarine surface waters can occur through advective exchange with ocean water (dilution), photodegradation, biodegradation, and partitioning to sediments, among other processes. Quantitation of the relative importance of these processes is difficult, given that most of the analytes in question are not currently measurable in ambient surface waters of San Francisco Bay. However, these processes would only serve to speed the removal of these pollutants from surface waters to concentrations below method detection limits.

c. Trace Elements

i. QA results

For the trace elements, all results were within QA acceptance limits. Results were reported blank subtracted[1], with the standard deviations of background signals well below detection limits. Recoveries and precision were good, with average <10% deviation from expected values.

ii. Ambient sample results

Only (total) chromium was detected in all samples, with the other elements detected only in about half the samples. In all cases, detected concentrations were well below the WQCs for the elements. These results are consistent with those in 2002-2003. One lab in that previous study had detections of all elements in all samples, but still well below WQCs and with MDLs much lower than reported currently, so the greater number of NDs is expected here.

d. TBT and Cyanide

i. QA results

The tributyltin tin (TBT) MDL provided by the laboratory was 0.08 µg/L, above the WQC (0.01 ug/L). TBT was not detected in any of the method blanks. Matrix spike recoveries were acceptable (within 20% of target values), and precision on matrix spikes was good (26% RSD).

Cyanide was measured with an MDL of 0.9 µg/L, below the WQC of 2.9 µg/L. It was not found in blanks. Recovery was good (~13% error), and precision on matrix spikes was also good (~5% RSD).

[1] RMP S&T (starting with Flegal's UC Santa Cruz research group) trace metal data have always been reported blank corrected. Although EPA Method 1638 for example specifies no blank correction, currently RMP uses lab-specific modifications of standard methods (designated with M for modification, e.g., "EPA 1638**M**" in CEDEN coding), which could include, among other modifications, blank subtracted reporting of data. Raw blank results are maintained to add back as needed/desired.

ii. Ambient sample results

Tributyltin tin (TBT) was not detected in any of the ambient samples (Table 2). Although the provided MDL was above the WQC, the prior CTR study with lower MDLs also found no detects. Given the ban of TBT use in marine anti-fouling paints in various countries since that previous study, concentrations would be expected to further decrease. Cyanide was not detected in any ambient samples in this study as well.

e. Asbestos

Asbestos analyses do not typically include the same QC samples within analytical batches as for chemical analyses. QC typically only includes periodic certification by an accrediting agency, and the lab provided evidence of current certification. No asbestos was detected, with a detection limit of 1 mF/L (million fibers per liter), below the WQC of 7 mF/L.

f. Ancillary parameters

The ancillary water quality parameters of hardness and total solids were measured in samples from all sites and also reported in Table 2. As these are not pollutant analytes, there are no WQCs. However, these analytes are helpful for determining whether saltwater or freshwater objectives are more appropriate for particular sampling sites and seasons. As expected, both hardness and total solids were much lower at the Sacramento River site than at Dumbarton Bridge and Yerba Buena Island, given the greater contribution of oceanic water to the conditions at the latter two sites.

4. Conclusions

a. Results compared to objectives

Like in the previous study, ambient concentrations were below the respective MDLs for most of the pollutants included in this study. Only the trace elements were occasionally detected, but all were found at concentrations far below their WQCs. Because MDLs in turn were generally far below the WQCs, sometimes by several orders of magnitude, the lack of detected results was usually sufficient to indicate that ambient concentrations were below the WQCs at the sample sites. For the remainder of analytes, a handful with MDLs above their respective WQCs, prior efforts with modified methods and lower MDLs had not shown usable detects (e.g., often indicating blank contamination as well), so additional effort to attempt to quantify these at lower concentrations would appear to be a low priority, but could be revisited if water quality managers desired better information.

Since a large number of these pollutants are volatile or semi-volatile compounds, the lack of detected results is not surprising. The sample sites selected were not near any known major sources, and with volatilization half-lives of hours to days combined with dilution by clean ocean water, many of the target compounds would be expected to rapidly drop below currently achievable detection limits in the ambient Estuary environment.

b. Future recommendations

Few of the pollutants measured in this study will require frequent monitoring to ensure that ambient concentrations remain below WQC. Trace elements were found at concentrations well below their respective WQCs, and tributyltin was not found in any samples, although the chronic criterion for tributyltin of 0.0074 µg/L is below the MDL of the laboratory analyzing samples in this round. Although cyanide was not detected in any samples, its MDL was only slightly below its WQC, so future work could focus on improving method sensitivity for CN and TBT.

For the VOCs, SVOCs, and pesticides listed as CTR priority pollutants, most would be detectable at concentrations below their respective WQCs using conventional EPA Methods 624 and 625 or 608. None of these compounds were detected at concentrations above their MDLs, and thus for most of them, this would indicate concentrations below WQCs.

Although commercially available sample containers are analyzed and certified for a number of CTR contaminants, for some of these compounds no analyses are performed. Sample container contamination can be reduced through use of bottles with lid liners of Teflon or other non-leaching inert materials and more extensive (e.g., muffle furnace) preparation, but additional special preparation appears unnecessary for current analytical methods as no target organic analytes were detected in any blanks or samples.

Given their volatility, it is unlikely that any of the VOC/SVOC compounds will exceed their WQCs in ambient waters unless there are large changes in use and disposal

patterns. Although continued meeting of WQCs for VOCs and SVOCs can be ensured through repeated monitoring for these compounds in ambient waters and/or discharges, the level of intensity appropriate for such an effort needs to be considered by environmental managers. Other priority pollutants are currently documented to exceed their WQCs, and other environmental challenges also face the region.

5. Acknowledgements

We would like to thank the RMP stakeholders for providing funding for this study. Thanks also go out to various staff at AMS and SFEI, for field coordination and sampling, and to the analytical laboratories for the willingness to work with the very small sample counts in this study.

6. References

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Table 1. Samples Collected for Ambient Water Monitoring of CTR Analytes
(from 2015 RMP Cruise Plan)

Sample	T/P/D	Lab	Container	Handling Requirements
CN	T	ALS	500 mL HDPE	*Preserve with NaOH to a pH ≥12 (14 day hold if preserved); dup at 1 site
SSC	T	ALS	1 L	Dup at 1 site (7 day hold time)
Total Solids	T	Caltest	1 pint polyethylene	No duplicates needed
Sb, Be, Tl, Cr (CTR)	T	BRL	Included with Cu, Se samples	No duplicates needed (6 month hold time)
TBT (CTR)	T	Caltest	1L amber glass	7 day hold time. A courier will deliver samples to Caltest the morning after sampling.
Asbestos (CTR)	T	Caltest	1 L amber glass	48 hour hold time. A courier will deliver samples to Caltest the morning after sampling.
VOCs, SVOCs, PAH, phthalates by EPA 625 (CTR)	T	Caltest	4 @ 1 L amber glass (2 L for field blanks)	7 day hold time. A courier will deliver samples to Caltest the morning after sampling.
VOCs, SVOCs by EPA 624 (CTR)	T	Caltest	Four 40 mL VOA vials (2 preserved, 2 unpreserved)	*Two vials preserved with HCl (provided), two unpreserved. Hold time is 7 days for preserved bottles, 3 days for unpreserved bottles. A courier will deliver samples to Caltest the morning after sampling.
Pesticides by EPA 608 (CTR)	T	Caltest	4 @ 1L amber glass (2 L for field blanks)	7 day hold time. A courier will deliver samples to Caltest the morning after sampling.
POC	P	ALS	Filters (1 per site)	1 filter per site. Field filtered; quick freeze –20C; dup at 1 site (100 day hold time)
DOC	D	ALS	250 ml HDPE	Field filtered (filtrate of POC sample); has 1-2 mL H2SO4, dup at 1 site (28 day hold time)
Hardness	D	ALS	500 ml PE	Dup at 1 site

Key for T/P/D Field: Sample Type, T=Total, P=Particulate, D=Dissolved

Table 2. CTR Priority Pollutant Concentrations in SF Bay Ambient Water, Summer 2015

Key:

<	indicates a non-detect, the subsequent number is lab provided MDL
E	estimated result
Q	qualified result (QA slightly outside target range)
R	rejected result (QA poor, non-quantitative and result censored)

Station Code	CTR #	Analyte Name	Method Name	Unit	2015-08	Compliance Code
BA30	1	Antimony	EPA 200.8	ug/L	0.22	
BA30	3	Beryllium	EPA 1640M	ug/L	< 0.033	
BA30	5	Chromium	EPA 1640M	ug/L	3.613	
BA30	6	Copper	EPA 1640M	ug/L	3.4	Q
BA30	10	Selenium	EPA 1640M	ug/L	0.157	
BA30	12	Thallium	EPA 1640M	ug/L	0.00725	
BA30	14	Cyanide	SM 4500-CN E v20	mg/L	< 0.0009	
BA30	17	Acrolein	EPA 624	ug/L	< 1.7	
BA30	18	Acrylonitrile	EPA 624	ug/L	< 0.69	
BA30	19	Benzene	EPA 624	ug/L	< 0.18	
BA30	20	Bromoform	EPA 624	ug/L	< 0.15	
BA30	21	Carbon Tetrachloride	EPA 624	ug/L	< 0.16	
BA30	22	Chlorobenzene	EPA 624	ug/L	< 0.18	
BA30	23	Dibromochloromethane	EPA 624	ug/L	< 0.17	
BA30	24	Chloroethane	EPA 624	ug/L	< 0.38	
BA30	25	Chloroethyl Vinyl Ether, 2-	EPA 624	ug/L	< 0.28	
BA30	26	Chloroform	EPA 624	ug/L	< 0.19	
BA30	27	Bromodichloromethane	EPA 624	ug/L	< 0.16	
BA30	28	Dichloroethane, 1,1-	EPA 624	ug/L	< 0.19	
BA30	29	Dichloroethane, 1,2-	EPA 624	ug/L	< 0.18	
BA30	30	Dichloroethylene, 1,1-	EPA 624	ug/L	< 0.21	
BA30	31	Dichloropropane, 1,2-	EPA 624	ug/L	< 0.18	
BA30	32	Dichloropropene, cis 1,3-	EPA 624	ug/L	< 0.16	
BA30	33	Ethylbenzene	EPA 624	ug/L	< 0.26	
BA30	34	Bromomethane	EPA 624	ug/L	< 0.3	
BA30	35	Chloromethane	EPA 624	ug/L	< 0.3	
BA30	36	Methylene Chloride	EPA 624	ug/L	< 0.4	
BA30	37	Tetrachloroethane, 1,1,2,2-	EPA 624	ug/L	< 0.1	
BA30	38	Tetrachloroethylene	EPA 624	ug/L	< 0.19	
BA30	39	Toluene	EPA 624	ug/L	< 0.19	
BA30	40	Dichloroethylene, trans 1,2-	EPA 624	ug/L	< 0.22	
BA30	41	Trichloroethane, 1,1,1-	EPA 624	ug/L	< 0.19	
BA30	42	Trichloroethane, 1,1,2-	EPA 624	ug/L	< 0.16	
BA30	43	Trichloroethylene	EPA 624	ug/L	< 0.2	
BA30	44	Vinyl Chloride	EPA 624	ug/L	< 0.25	
BA30	45	Chlorophenol, 2-	EPA 625	ug/L	< 0.7	Q
BA30	46	Dichlorophenol, 2,4-	EPA 625	ug/L	< 0.9	
BA30	47	Dimethylphenol, 2,4-	EPA 625	ug/L	< 0.8	
BA30	48	Dinitro-2-methylphenol, 4,6-	EPA 625	ug/L	< 0.6	
BA30	49	Dinitrophenol, 2,4-	EPA 625	ug/L	< 0.9	Q
BA30	50	Nitrophenol, 2-	EPA 625	ug/L	< 0.8	Q
BA30	51	Nitrophenol, 4-	EPA 625	ug/L	< 0.5	
BA30	52	Chloro-3-methylphenol, 4-	EPA 625	ug/L	< 0.8	
BA30	53	Pentachlorophenol	EPA 625	ug/L	< 0.6	
BA30	54	Phenol	EPA 625	ug/L	< 0.5	Q
BA30	55	Trichlorophenol, 2,4,6-	EPA 625	ug/L	< 0.97	
BA30	56	Acenaphthene	EPA 625	ug/L	< 0.02	
BA30	57	Acenaphthylene	EPA 625	ug/L	< 0.02	Q
BA30	58	Anthracene	EPA 625	ug/L	< 0.01	
BA30	59	Benzidine	EPA 625	ug/L	< 5	
BA30	60	Benz(a)anthracene	EPA 625	ug/L	< 0.02	

BA30	61	Benzo(a)pyrene	EPA 625	ug/L	< 0.02	
BA30	62	Benzo(b)fluoranthene	EPA 625	ug/L	< 0.02	
BA30	63	Benzo(g,h,i)perylene	EPA 625	ug/L	< 0.03	Q
BA30	64	Benzo(k)fluoranthene	EPA 625	ug/L	< 0.01	
BA30	65	Bis(2-chloroethoxy)methane	EPA 625	ug/L	< 0.9	
BA30	66	Bis(2-chloroethyl)ether	EPA 625	ug/L	< 0.7	Q
BA30	67	Bis(2-chloroisopropyl) ether	EPA 625	ug/L	< 0.6	Q
BA30	68	Bis(2-ethylhexyl)phthalate	EPA 625	ug/L	< 0.6	
BA30	69	Bromophenyl Phenyl Ether, 4-	EPA 625	ug/L	< 0.7	
BA30	70	Butyl Benzyl Phthalate	EPA 625	ug/L	< 0.7	
BA30	71	Chloronaphthalene, 2-	EPA 625	ug/L	< 0.9	Q
BA30	72	Chlorophenyl Phenyl Ether, 4-	EPA 625	ug/L	< 0.9	
BA30	73	Chrysene	EPA 625	ug/L	< 0.02	
BA30	74	Dibenz(a,h)anthracene	EPA 625	ug/L	< 0.03	
BA30	75	Dichlorobenzene, 1,2-	EPA 624	ug/L	< 0.27	
BA30	76	Dichlorobenzene, 1,3-	EPA 624	ug/L	< 0.18	
BA30	77	Dichlorobenzene, 1,4-	EPA 624	ug/L	< 0.18	
BA30	78	Dichlorobenzidine, 3,3'-	EPA 625	ug/L	< 5	
BA30	79	Diethyl phthalate	EPA 625	ug/L	< 0.7	
BA30	80	Dimethyl Phthalate	EPA 625	ug/L	< 0.9	
BA30	81	Di-n-butyl Phthalate	EPA 625	ug/L	< 0.6	
BA30	82	Dinitrotoluene, 2,4-	EPA 625	ug/L	< 0.7	
BA30	83	Dinitrotoluene, 2,6-	EPA 625	ug/L	< 0.8	
BA30	84	Di-n-octyl Phthalate	EPA 625	ug/L	< 0.5	
BA30	85	Diphenylhydrazine, 1,2-	EPA 625	ug/L	< 0.7	
BA30	86	Fluoranthene	EPA 625	ug/L	< 0.03	
BA30	87	Fluorene	EPA 625	ug/L	< 0.01	
BA30	88	Hexachlorobenzene	EPA 625	ug/L	< 0.7	
BA30	89	Hexachlorobutadiene	EPA 625	ug/L	< 0.6	Q
BA30	90	Hexachlorocyclopentadiene	EPA 625	ug/L	< 0.7	
BA30	91	Hexachloroethane	EPA 625	ug/L	< 0.6	Q
BA30	92	Indeno(1,2,3-c,d)pyrene	EPA 625	ug/L	< 0.02	
BA30	93	Isophorone	EPA 625	ug/L	< 0.93	
BA30	94	Naphthalene	EPA 625	ug/L	< 0.02	Q
BA30	95	Nitrobenzene	EPA 625	ug/L	< 0.9	
BA30	96	Nitrosodimethylamine, N-	EPA 625	ug/L	< 0.5	
BA30	97	Nitrosodi-n-propylamine, N-	EPA 625	ug/L	< 0.8	
BA30	98	Nitrosodiphenylamine, N-	EPA 625	ug/L	< 0.5	
BA30	99	Phenanthrene	EPA 625	ug/L	< 0.02	
BA30	100	Pyrene	EPA 625	ug/L	< 0.02	Q
BA30	101	Trichlorobenzene, 1,2,4-	EPA 625	ug/L	< 0.6	Q
BA30	102	Aldrin	EPA 608	ug/L	< 0.004	Q
BA30	103	HCH, alpha-	EPA 608	ug/L	< 0.005	
BA30	104	HCH, beta-	EPA 608	ug/L	< 0.004	
BA30	105	HCH, gamma-	EPA 608	ug/L	< 0.004	
BA30	106	HCH, delta-	EPA 608	ug/L	< 0.004	
BA30	107	Chlordane, cis-	EPA 608	ug/L	< 0.004	
BA30	107	Chlordane, trans-	EPA 608	ug/L	< 0.004	
BA30	108	DDT(p,p')	EPA 608	ug/L	< 0.004	
BA30	109	DDE(p,p')	EPA 608	ug/L	< 0.003	
BA30	110	DDD(p,p')	EPA 608	ug/L	< 0.004	
BA30	111	Dieldrin	EPA 608	ug/L	< 0.004	
BA30	112	Endosulfan I	EPA 608	ug/L	< 0.004	

BA30	113	Endosulfan II	EPA 608	ug/L	< 0.005	
BA30	114	Endosulfan Sulfate	EPA 608	ug/L	< 0.005	
BA30	115	Endrin	EPA 608	ug/L	< 0.005	
BA30	116	Endrin Aldehyde	EPA 608	ug/L	< 0.005	
BA30	117	Heptachlor	EPA 608	ug/L	< 0.005	
BA30	118	Heptachlor Epoxide	EPA 608	ug/L	< 0.004	
BA30	119	PCB AROCLOR 1016	EPA 608	ug/L	< 0.05	
BA30	120	PCB AROCLOR 1221	EPA 608	ug/L	< 0.05	
BA30	121	PCB AROCLOR 1232	EPA 608	ug/L	< 0.05	
BA30	122	PCB AROCLOR 1242	EPA 608	ug/L	< 0.04	
BA30	123	PCB AROCLOR 1248	EPA 608	ug/L	< 0.05	
BA30	124	PCB AROCLOR 1254	EPA 608	ug/L	< 0.05	
BA30	125	PCB AROCLOR 1260	EPA 608	ug/L	< 0.05	
BA30	126	Toxaphene	EPA 608	ug/L	< 0.3	
BA30	A1	Tributyltin as Sn	TestAmerica SOP TA	ug/L	< 0.08	Q
BA30	anc	Suspended Sediment Concentration	ASTM D3977	mg/L	21.4	
BA30	anc	Particulate Organic Carbon	EPA 440	mg/L	1	Q
BA30	anc	Dissolved Organic Carbon	EPA 9060	mg/L	3.1	Q
BA30	anc	Hardness as CaCO3	SM 2340 C	mg/L	6600	Q
BA30	anc	Total Solids	SM 2540 B	mg/L	37200	Q
BA30	extra	Endrin Ketone	EPA 608	ug/L	< 0.005	
BA30	extra	Methoxychlor	EPA 608	ug/L	< 0.005	
BA30	extra	Dichlorodifluoromethane	EPA 624	ug/L	< 0.3	
BA30	extra	Dichloroethylene, cis 1,2-	EPA 624	ug/L	< 0.2	
BA30	extra	Dichloropropene, trans 1,3-	EPA 624	ug/L	< 0.16	
BA30	extra	Dichlorotrifluoromethane	EPA 624	ug/L	< 0.14	
BA30	extra	Methyl Tert-butyl Ether	EPA 624	ug/L	< 0.15	
BA30	extra	Trichloro-1,2,2-trifluoroethane, 1,1,2-	EPA 624	ug/L	< 0.11	
BA30	extra	Trichlorofluoromethane	EPA 624	ug/L	< 0.29	
BA30	extra	Xylenes, Total	EPA 624	ug/L	< 0.47	

Station Code	CTR #	Analyte Name	Method Name	Unit	2015-08	Compliance Code
BC10	1	Antimony	EPA 200.8	ug/L	0.145	
BC10	3	Beryllium	EPA 1640M	ug/L	< 0.037	
BC10	5	Chromium	EPA 1640M	ug/L	1.44	
BC10	6	Copper	EPA 1640M	ug/L	1.47	Q
BC10	10	Selenium	EPA 1640M	ug/L	< 0.07	
BC10	12	Thallium	EPA 1640M	ug/L	< 0.003	
BC10	14	Cyanide	SM 4500-CN E v20	mg/L	< 0.0009	
BC10	17	Acrolein	EPA 624	ug/L	< 1.7	
BC10	18	Acrylonitrile	EPA 624	ug/L	< 0.69	
BC10	19	Benzene	EPA 624	ug/L	< 0.18	
BC10	20	Bromoform	EPA 624	ug/L	< 0.15	
BC10	21	Carbon Tetrachloride	EPA 624	ug/L	< 0.16	
BC10	22	Chlorobenzene	EPA 624	ug/L	< 0.18	
BC10	23	Dibromochloromethane	EPA 624	ug/L	< 0.17	
BC10	24	Chloroethane	EPA 624	ug/L	< 0.38	
BC10	25	Chloroethyl Vinyl Ether, 2-	EPA 624	ug/L	< 0.28	
BC10	26	Chloroform	EPA 624	ug/L	< 0.19	
BC10	27	Bromodichloromethane	EPA 624	ug/L	< 0.16	
BC10	28	Dichloroethane, 1,1-	EPA 624	ug/L	< 0.19	
BC10	29	Dichloroethane, 1,2-	EPA 624	ug/L	< 0.18	
BC10	30	Dichloroethylene, 1,1-	EPA 624	ug/L	< 0.21	
BC10	31	Dichloropropane, 1,2-	EPA 624	ug/L	< 0.18	
BC10	32	Dichloropropene, cis 1,3-	EPA 624	ug/L	< 0.16	
BC10	33	Ethylbenzene	EPA 624	ug/L	< 0.26	
BC10	34	Bromomethane	EPA 624	ug/L	< 0.3	
BC10	35	Chloromethane	EPA 624	ug/L	< 0.3	
BC10	36	Methylene Chloride	EPA 624	ug/L	< 0.4	
BC10	37	Tetrachloroethane, 1,1,2,2-	EPA 624	ug/L	< 0.1	
BC10	38	Tetrachloroethylene	EPA 624	ug/L	< 0.19	
BC10	39	Toluene	EPA 624	ug/L	< 0.19	
BC10	40	Dichloroethylene, trans 1,2-	EPA 624	ug/L	< 0.22	
BC10	41	Trichloroethane, 1,1,1-	EPA 624	ug/L	< 0.19	
BC10	42	Trichloroethane, 1,1,2-	EPA 624	ug/L	< 0.16	
BC10	43	Trichloroethylene	EPA 624	ug/L	< 0.2	
BC10	44	Vinyl Chloride	EPA 624	ug/L	< 0.25	
BC10	45	Chlorophenol, 2-	EPA 625	ug/L	< 0.7	Q
BC10	46	Dichlorophenol, 2,4-	EPA 625	ug/L	< 0.9	
BC10	47	Dimethylphenol, 2,4-	EPA 625	ug/L	< 0.8	
BC10	48	Dinitro-2-methylphenol, 4,6-	EPA 625	ug/L	< 0.6	
BC10	49	Dinitrophenol, 2,4-	EPA 625	ug/L	< 0.9	Q
BC10	50	Nitrophenol, 2-	EPA 625	ug/L	< 0.8	Q
BC10	51	Nitrophenol, 4-	EPA 625	ug/L	< 0.5	
BC10	52	Chloro-3-methylphenol, 4-	EPA 625	ug/L	< 0.8	
BC10	53	Pentachlorophenol	EPA 625	ug/L	< 0.6	
BC10	54	Phenol	EPA 625	ug/L	< 0.5	Q
BC10	55	Trichlorophenol, 2,4,6-	EPA 625	ug/L	< 0.97	
BC10	56	Acenaphthene	EPA 625	ug/L	< 0.02	
BC10	57	Acenaphthylene	EPA 625	ug/L	< 0.02	Q
BC10	58	Anthracene	EPA 625	ug/L	< 0.01	
BC10	59	Benzidine	EPA 625	ug/L	< 5	
BC10	60	Benz(a)anthracene	EPA 625	ug/L	< 0.02	

BC10	61	Benzo(a)pyrene	EPA 625	ug/L	< 0.02	
BC10	62	Benzo(b)fluoranthene	EPA 625	ug/L	< 0.02	
BC10	63	Benzo(g,h,i)perylene	EPA 625	ug/L	< 0.03	Q
BC10	64	Benzo(k)fluoranthene	EPA 625	ug/L	< 0.01	
BC10	65	Bis(2-chloroethoxy)methane	EPA 625	ug/L	< 0.9	
BC10	66	Bis(2-chloroethyl)ether	EPA 625	ug/L	< 0.7	Q
BC10	67	Bis(2-chloroisopropyl) ether	EPA 625	ug/L	< 0.6	Q
BC10	68	Bis(2-ethylhexyl)phthalate	EPA 625	ug/L	< 0.6	
BC10	69	Bromophenyl Phenyl Ether, 4-	EPA 625	ug/L	< 0.7	
BC10	70	Butyl Benzyl Phthalate	EPA 625	ug/L	< 0.7	
BC10	71	Chloronaphthalene, 2-	EPA 625	ug/L	< 0.9	Q
BC10	72	Chlorophenyl Phenyl Ether, 4-	EPA 625	ug/L	< 0.9	
BC10	73	Chrysene	EPA 625	ug/L	< 0.02	
BC10	74	Dibenz(a,h)anthracene	EPA 625	ug/L	< 0.03	
BC10	75	Dichlorobenzene, 1,2-	EPA 624	ug/L	< 0.27	
BC10	76	Dichlorobenzene, 1,3-	EPA 624	ug/L	< 0.18	
BC10	77	Dichlorobenzene, 1,4-	EPA 624	ug/L	< 0.18	
BC10	78	Dichlorobenzidine, 3,3'-	EPA 625	ug/L	< 5	
BC10	79	Diethyl phthalate	EPA 625	ug/L	< 0.7	
BC10	80	Dimethyl Phthalate	EPA 625	ug/L	< 0.9	
BC10	81	Di-n-butyl Phthalate	EPA 625	ug/L	< 0.6	
BC10	82	Dinitrotoluene, 2,4-	EPA 625	ug/L	< 0.7	
BC10	83	Dinitrotoluene, 2,6-	EPA 625	ug/L	< 0.8	
BC10	84	Di-n-octyl Phthalate	EPA 625	ug/L	< 0.5	
BC10	85	Diphenylhydrazine, 1,2-	EPA 625	ug/L	< 0.7	
BC10	86	Fluoranthene	EPA 625	ug/L	< 0.03	
BC10	87	Fluorene	EPA 625	ug/L	< 0.01	
BC10	88	Hexachlorobenzene	EPA 625	ug/L	< 0.7	
BC10	89	Hexachlorobutadiene	EPA 625	ug/L	< 0.6	Q
BC10	90	Hexachlorocyclopentadiene	EPA 625	ug/L	< 0.7	
BC10	91	Hexachloroethane	EPA 625	ug/L	< 0.6	Q
BC10	92	Indeno(1,2,3-c,d)pyrene	EPA 625	ug/L	< 0.02	
BC10	93	Isophorone	EPA 625	ug/L	< 0.93	
BC10	94	Naphthalene	EPA 625	ug/L	< 0.02	Q
BC10	95	Nitrobenzene	EPA 625	ug/L	< 0.9	
BC10	96	Nitrosodimethylamine, N-	EPA 625	ug/L	< 0.5	
BC10	97	Nitrosodi-n-propylamine, N-	EPA 625	ug/L	< 0.8	
BC10	98	Nitrosodiphenylamine, N-	EPA 625	ug/L	< 0.5	
BC10	99	Phenanthrene	EPA 625	ug/L	< 0.02	
BC10	100	Pyrene	EPA 625	ug/L	< 0.02	Q
BC10	101	Trichlorobenzene, 1,2,4-	EPA 625	ug/L	< 0.6	Q
BC10	102	Aldrin	EPA 608	ug/L	< 0.004	Q
BC10	103	HCH, alpha-	EPA 608	ug/L	< 0.005	
BC10	104	HCH, beta-	EPA 608	ug/L	< 0.004	
BC10	105	HCH, gamma-	EPA 608	ug/L	< 0.004	
BC10	106	HCH, delta-	EPA 608	ug/L	< 0.004	
BC10	107	Chlordane, cis-	EPA 608	ug/L	< 0.004	
BC10	107	Chlordane, trans-	EPA 608	ug/L	< 0.004	
BC10	108	DDT(p,p')	EPA 608	ug/L	< 0.004	
BC10	109	DDE(p,p')	EPA 608	ug/L	< 0.003	
BC10	110	DDD(p,p')	EPA 608	ug/L	< 0.004	
BC10	111	Dieldrin	EPA 608	ug/L	< 0.004	
BC10	112	Endosulfan I	EPA 608	ug/L	< 0.004	

BC10	113	Endosulfan II	EPA 608	ug/L	< 0.005	
BC10	114	Endosulfan Sulfate	EPA 608	ug/L	< 0.005	
BC10	115	Endrin	EPA 608	ug/L	< 0.005	
BC10	116	Endrin Aldehyde	EPA 608	ug/L	< 0.005	
BC10	117	Heptachlor	EPA 608	ug/L	< 0.005	
BC10	118	Heptachlor Epoxide	EPA 608	ug/L	< 0.004	
BC10	119	PCB AROCLOR 1016	EPA 608	ug/L	< 0.05	
BC10	120	PCB AROCLOR 1221	EPA 608	ug/L	< 0.05	
BC10	121	PCB AROCLOR 1232	EPA 608	ug/L	< 0.05	
BC10	122	PCB AROCLOR 1242	EPA 608	ug/L	< 0.04	
BC10	123	PCB AROCLOR 1248	EPA 608	ug/L	< 0.05	
BC10	124	PCB AROCLOR 1254	EPA 608	ug/L	< 0.05	
BC10	125	PCB AROCLOR 1260	EPA 608	ug/L	< 0.05	
BC10	126	Toxaphene	EPA 608	ug/L	< 0.3	
BC10	A1	Tributyltin as Sn	TestAmerica SOP TA	ug/L	< 0.08	Q
BC10	anc	Suspended Sediment Concentration	ASTM D3977	mg/L	16.1	
BC10	anc	Particulate Organic Carbon	EPA 440	mg/L	0.7	Q
BC10	anc	Dissolved Organic Carbon	EPA 9060	mg/L	2.15	Q
BC10	anc	Hardness as CaCO3	SM 2340 C	mg/L	6000	Q
BC10	anc	Total Solids	SM 2540 B	mg/L	40000	Q
BC10	extra	Endrin Ketone	EPA 608	ug/L	< 0.005	
BC10	extra	Methoxychlor	EPA 608	ug/L	< 0.005	
BC10	extra	Dichlorodifluoromethane	EPA 624	ug/L	< 0.3	
BC10	extra	Dichloroethylene, cis 1,2-	EPA 624	ug/L	< 0.2	
BC10	extra	Dichloropropene, trans 1,3-	EPA 624	ug/L	< 0.16	
BC10	extra	Dichlorotrifluoromethane	EPA 624	ug/L	< 0.14	
BC10	extra	Methyl Tert-butyl Ether	EPA 624	ug/L	< 0.15	
BC10	extra	Trichloro-1,2,2-trifluoroethane, 1,1,2-	EPA 624	ug/L	< 0.11	
BC10	extra	Trichlorofluoromethane	EPA 624	ug/L	< 0.29	
BC10	extra	Xylenes, Total	EPA 624	ug/L	< 0.47	

Station Code	CTR #	Analyte Name	Method Name	Unit	2015-08	Compliance Code
BG20	1	Antimony	EPA 200.8M	ug/L	< 0.3	
BG20	3	Beryllium	EPA 1640M	ug/L	0.011	
BG20	5	Chromium	EPA 1640M	ug/L	1.423	
BG20	6	Copper	EPA 1640M	ug/L	2.46	Q
BG20	10	Selenium	EPA 1640M	ug/L	0.0765	
BG20	12	Thallium	EPA 1640M	ug/L	0.008	
BG20	14	Cyanide	SM 4500-CN E v20	mg/L	< 0.0009	
BG20	15	Asbestos, Total	EPA 600/R-94-134	mf/L	< 1	Q
BG20	17	Acrolein	EPA 624	ug/L	< 1.7	
BG20	18	Acrylonitrile	EPA 624	ug/L	< 0.69	
BG20	19	Benzene	EPA 624	ug/L	< 0.18	
BG20	20	Bromoform	EPA 624	ug/L	< 0.15	
BG20	21	Carbon Tetrachloride	EPA 624	ug/L	< 0.16	
BG20	22	Chlorobenzene	EPA 624	ug/L	< 0.18	
BG20	23	Dibromochloromethane	EPA 624	ug/L	< 0.17	
BG20	24	Chloroethane	EPA 624	ug/L	< 0.38	
BG20	25	Chloroethyl Vinyl Ether, 2-	EPA 624	ug/L	< 0.28	
BG20	26	Chloroform	EPA 624	ug/L	< 0.19	
BG20	27	Bromodichloromethane	EPA 624	ug/L	< 0.16	
BG20	28	Dichloroethane, 1,1-	EPA 624	ug/L	< 0.19	
BG20	29	Dichloroethane, 1,2-	EPA 624	ug/L	< 0.18	
BG20	30	Dichloroethylene, 1,1-	EPA 624	ug/L	< 0.21	
BG20	31	Dichloropropane, 1,2-	EPA 624	ug/L	< 0.18	
BG20	32	Dichloropropene, cis 1,3-	EPA 624	ug/L	< 0.16	
BG20	33	Ethylbenzene	EPA 624	ug/L	< 0.26	
BG20	34	Bromomethane	EPA 624	ug/L	< 0.3	
BG20	35	Chloromethane	EPA 624	ug/L	< 0.3	
BG20	36	Methylene Chloride	EPA 624	ug/L	< 0.4	
BG20	37	Tetrachloroethane, 1,1,2,2-	EPA 624	ug/L	< 0.1	
BG20	38	Tetrachloroethylene	EPA 624	ug/L	< 0.19	
BG20	39	Toluene	EPA 624	ug/L	< 0.19	
BG20	40	Dichloroethylene, trans 1,2-	EPA 624	ug/L	< 0.22	
BG20	41	Trichloroethane, 1,1,1-	EPA 624	ug/L	< 0.19	
BG20	42	Trichloroethane, 1,1,2-	EPA 624	ug/L	< 0.16	
BG20	43	Trichloroethylene	EPA 624	ug/L	< 0.2	
BG20	44	Vinyl Chloride	EPA 624	ug/L	< 0.25	
BG20	45	Chlorophenol, 2-	EPA 625	ug/L	< 0.7	Q
BG20	46	Dichlorophenol, 2,4-	EPA 625	ug/L	< 0.9	
BG20	47	Dimethylphenol, 2,4-	EPA 625	ug/L	< 0.8	
BG20	48	Dinitro-2-methylphenol, 4,6-	EPA 625	ug/L	< 0.6	
BG20	49	Dinitrophenol, 2,4-	EPA 625	ug/L	< 0.9	Q
BG20	50	Nitrophenol, 2-	EPA 625	ug/L	< 0.8	Q
BG20	51	Nitrophenol, 4-	EPA 625	ug/L	< 0.5	
BG20	52	Chloro-3-methylphenol, 4-	EPA 625	ug/L	< 0.8	
BG20	53	Pentachlorophenol	EPA 625	ug/L	< 0.6	
BG20	54	Phenol	EPA 625	ug/L	< 0.5	Q
BG20	55	Trichlorophenol, 2,4,6-	EPA 625	ug/L	< 0.97	
BG20	56	Acenaphthene	EPA 625	ug/L	< 0.02	
BG20	57	Acenaphthylene	EPA 625	ug/L	< 0.02	Q
BG20	58	Anthracene	EPA 625	ug/L	< 0.01	
BG20	59	Benzidine	EPA 625	ug/L	< 5	

BG20	60	Benz(a)anthracene	EPA 625	ug/L	< 0.02	
BG20	61	Benzo(a)pyrene	EPA 625	ug/L	< 0.02	
BG20	62	Benzo(b)fluoranthene	EPA 625	ug/L	< 0.02	
BG20	63	Benzo(g,h,i)perylene	EPA 625	ug/L	< 0.03	Q
BG20	64	Benzo(k)fluoranthene	EPA 625	ug/L	< 0.01	
BG20	65	Bis(2-chloroethoxy)methane	EPA 625	ug/L	< 0.9	
BG20	66	Bis(2-chloroethyl)ether	EPA 625	ug/L	< 0.7	Q
BG20	67	Bis(2-chloroisopropyl) ether	EPA 625	ug/L	< 0.6	Q
BG20	68	Bis(2-ethylhexyl)phthalate	EPA 625	ug/L	< 0.6	
BG20	69	Bromophenyl Phenyl Ether, 4-	EPA 625	ug/L	< 0.7	
BG20	70	Butyl Benzyl Phthalate	EPA 625	ug/L	< 0.7	
BG20	71	Chloronaphthalene, 2-	EPA 625	ug/L	< 0.9	Q
BG20	72	Chlorophenyl Phenyl Ether, 4-	EPA 625	ug/L	< 0.9	
BG20	73	Chrysene	EPA 625	ug/L	< 0.02	
BG20	74	Dibenz(a,h)anthracene	EPA 625	ug/L	< 0.03	
BG20	75	Dichlorobenzene, 1,2-	EPA 624	ug/L	< 0.27	
BG20	76	Dichlorobenzene, 1,3-	EPA 624	ug/L	< 0.18	
BG20	77	Dichlorobenzene, 1,4-	EPA 624	ug/L	< 0.18	
BG20	78	Dichlorobenzidine, 3,3'-	EPA 625	ug/L	< 5	
BG20	79	Diethyl phthalate	EPA 625	ug/L	< 0.7	
BG20	80	Dimethyl Phthalate	EPA 625	ug/L	< 0.9	
BG20	81	Di-n-butyl Phthalate	EPA 625	ug/L	< 0.6	
BG20	82	Dinitrotoluene, 2,4-	EPA 625	ug/L	< 0.7	
BG20	83	Dinitrotoluene, 2,6-	EPA 625	ug/L	< 0.8	
BG20	84	Di-n-octyl Phthalate	EPA 625	ug/L	< 0.5	
BG20	85	Diphenylhydrazine, 1,2-	EPA 625	ug/L	< 0.7	
BG20	86	Fluoranthene	EPA 625	ug/L	< 0.03	
BG20	87	Fluorene	EPA 625	ug/L	< 0.01	
BG20	88	Hexachlorobenzene	EPA 625	ug/L	< 0.7	
BG20	89	Hexachlorobutadiene	EPA 625	ug/L	< 0.6	Q
BG20	90	Hexachlorocyclopentadiene	EPA 625	ug/L	< 0.7	
BG20	91	Hexachloroethane	EPA 625	ug/L	< 0.6	Q
BG20	92	Indeno(1,2,3-c,d)pyrene	EPA 625	ug/L	< 0.02	
BG20	93	Isophorone	EPA 625	ug/L	< 0.93	
BG20	94	Naphthalene	EPA 625	ug/L	< 0.02	Q
BG20	95	Nitrobenzene	EPA 625	ug/L	< 0.9	
BG20	96	Nitrosodimethylamine, N-	EPA 625	ug/L	< 0.5	
BG20	97	Nitrosodi-n-propylamine, N-	EPA 625	ug/L	< 0.8	
BG20	98	Nitrosodiphenylamine, N-	EPA 625	ug/L	< 0.5	
BG20	99	Phenanthrene	EPA 625	ug/L	< 0.02	
BG20	100	Pyrene	EPA 625	ug/L	< 0.02	Q
BG20	101	Trichlorobenzene, 1,2,4-	EPA 625	ug/L	< 0.6	Q
BG20	102	Aldrin	EPA 608	ug/L	< 0.004	Q
BG20	103	HCH, alpha-	EPA 608	ug/L	< 0.005	
BG20	104	HCH, beta-	EPA 608	ug/L	< 0.004	
BG20	105	HCH, gamma-	EPA 608	ug/L	< 0.004	
BG20	106	HCH, delta-	EPA 608	ug/L	< 0.004	
BG20	107	Chlordane, cis-	EPA 608	ug/L	< 0.004	
BG20	107	Chlordane, trans-	EPA 608	ug/L	< 0.004	
BG20	108	DDT(p,p')	EPA 608	ug/L	< 0.004	
BG20	109	DDE(p,p')	EPA 608	ug/L	< 0.003	
BG20	110	DDD(p,p')	EPA 608	ug/L	< 0.004	
BG20	111	Dieldrin	EPA 608	ug/L	< 0.004	

BG20	112	Endosulfan I	EPA 608	ug/L	< 0.004	
BG20	113	Endosulfan II	EPA 608	ug/L	< 0.005	
BG20	114	Endosulfan Sulfate	EPA 608	ug/L	< 0.005	
BG20	115	Endrin	EPA 608	ug/L	< 0.005	
BG20	116	Endrin Aldehyde	EPA 608	ug/L	< 0.005	
BG20	117	Heptachlor	EPA 608	ug/L	< 0.005	
BG20	118	Heptachlor Epoxide	EPA 608	ug/L	< 0.004	
BG20	119	PCB AROCLOR 1016	EPA 608	ug/L	< 0.05	
BG20	120	PCB AROCLOR 1221	EPA 608	ug/L	< 0.05	
BG20	121	PCB AROCLOR 1232	EPA 608	ug/L	< 0.05	
BG20	122	PCB AROCLOR 1242	EPA 608	ug/L	< 0.04	
BG20	123	PCB AROCLOR 1248	EPA 608	ug/L	< 0.05	
BG20	124	PCB AROCLOR 1254	EPA 608	ug/L	< 0.05	
BG20	125	PCB AROCLOR 1260	EPA 608	ug/L	< 0.05	
BG20	126	Toxaphene	EPA 608	ug/L	< 0.3	
BG20	anc	Suspended Sediment Concentration	ASTM D3977	mg/L	13	
BG20	anc	Particulate Organic Carbon	EPA 440	mg/L	0.8	Q
BG20	anc	Dissolved Organic Carbon	EPA 9060	mg/L	2.425	Q
BG20	anc	Hardness as CaCO3	SM 2340 C	mg/L	1060	Q
BG20	anc	Total Solids	SM 2540 B	mg/L	3000	Q
BG20	extra	Endrin Ketone	EPA 608	ug/L	< 0.005	
BG20	extra	Methoxychlor	EPA 608	ug/L	< 0.005	
BG20	extra	Dichlorodifluoromethane	EPA 624	ug/L	< 0.3	
BG20	extra	Dichloroethylene, cis 1,2-	EPA 624	ug/L	< 0.2	
BG20	extra	Dichloropropene, trans 1,3-	EPA 624	ug/L	< 0.16	
BG20	extra	Dichlorotrifluoromethane	EPA 624	ug/L	< 0.14	
BG20	extra	Methyl Tert-butyl Ether	EPA 624	ug/L	< 0.15	
BG20	extra	Trichloro-1,2,2-trifluoroethane, 1,1,2-	EPA 624	ug/L	< 0.11	
BG20	extra	Trichlorofluoromethane	EPA 624	ug/L	< 0.29	
BG20	extra	Xylenes, Total	EPA 624	ug/L	< 0.47	

Table 3. Volatilization Half-Lives of Selected VOCs And SVOCs in Surface Water, 20 C (Lyman 1990)

VOCs	Half-life (hrs)
1,1,1Trichloroethane	3.7
Benzene	2.7
Bromomethane	3.1
CarbonTetrachloride	3.7
Chlorobenzene	4.6
Chloroform	3.7
Chloromethane	2.4
Dichloromethane	3
Ethylbenzene	3.1
Toluene	2.9
Trichloroethene	3.4
VinylChloride	2.5

SVOCs	Half-life (hrs)
Naphthalene	4.1
Nitrobenzene	45
Pentachlorophenol	406
Phenanthrene	31

Appendix 1. San Francisco Bay Regional Water Quality Control Board Information Request (August 6, 2001)

California Regional Water Quality Control Board
San Francisco Bay Region

Winston H. Hickox
Secretary for Environmental Protection

Internet Address: http://www.swrcb.ca.gov
1515 Clay Street, Suite 1400, Oakland, California 94612
Phone (510) 622-2300 • FAX (510) 622-2460

Gray Davis
Governor

August 6, 2001

TO: **Permitted Wastewater Dischargers** (attached list)

SUBJECT: **Requirement for Monitoring of Pollutants in Effluent and Receiving Water to Implement New Statewide Regulations and Policy**

This letter is a requirement for technical information pursuant to Section 13267 of the California Water Code. The information we request you to submit is effluent and receiving water data on priority pollutants (Enclosure A), and a sampling plan to collect those data. The sample plan is due by October 1, 2001. An interim report presenting the data is due May 18, 2003, with a final report due 180 days prior to expiration of your permit. The remainder of this letter describes the reason and justification for the request, and further details about this requirement. Due to its length, a table of contents is provided.

Please direct your questions to Chris Moore at 1-800-404-8919, or by e-mail at camonitoringquestions@tetratech-ffx.com, or Lila Tang at (510) 622-2425.

You should be aware that this is a formal requirement for technical information pursuant to California Water Code Section 13267. Failure to respond or late response may subject you to civil liability imposed by the Board to a maximum amount of $1,000 per day. Any revisions of the request set forth must be confirmed in writing by Board staff.

CONTENTS

Applicability

The requirements in this letter are intended for and applicable to all dischargers under a NPDES[1] permit with the following exceptions: discharges to ocean waters, discharges consisting solely of storm water runoff, and discharges covered under general permits such as for solvent and fuels groundwater cleanup.

In the past 12 months, the Board has reissued permits that contain provisions for monitoring similar to what is required by this letter. For these dischargers (Enclosure C), please note that this letter does not change the deadlines specified in those Permits. However, this letter does change some of the Self-Monitoring Program specifications concerning the elements below:

- addition of a grab for Total Solids (Standard Methods 2540B) concurrent with organics pollutant samples,
- addition of organophospate pesticides and tributyltin,
- type of sample (grab verse composite),
- minimum sampling frequency, and
- analytical methodology.

With respect to these specific sampling elements, this letter serves as an amendment of the self-monitoring programs for those specific dischargers listed in Enclosure C.

Purpose and Basis of Requirement

The necessity for these studies comes from new regulations promulgated last year by the State Water Resources Control Board. The purpose of this requirement is to provide discharge and receiving water data that are sufficient for the Regional Board to:

- determine if water quality-based effluent limitations for priority pollutants are required;
- calculate effluent limitations (including interim performance based limits), if required; and
- determine if immediate compliance is feasible.

The first step is to determine if a discharge has a "reasonable potential" to cause or contribute to an exceedance of water quality standards. The second step involves deriving effluent limits for pollutants with "reasonable potential." The third step is to determine if the existing discharge can comply with these new limits. If not, discharge data are necessary to calculate interim limits based on facility performance. Each step requires accurate data on the discharge; the first two steps also require data on the receiving water.

The new regulations are contained in the State Water Resources Control Board's (SWRCB) Policy for Implementation of Toxics Standards for Inland Surface Waters, Enclosed Bays, and Estuaries of California (the Policy[2]). The Policy implements the provisions promulgated by the U.S. Environmental Protection Agency in the California Toxics Rule[3] (CTR), as well as any existing water quality objectives. The CTR established numeric criteria for 126 priority pollutants. Numeric objectives for 12 of these

[1] National Pollutant Discharge Elimination System
[2] The State Implementation Policy can be viewed and downloaded from www.swrcb.ca.gov/water quality
[3] The California Toxics Rule can be downloaded from www.epa.gov/region09/water

priority pollutants and tributyltin were previously established in the San Francisco Bay Water Quality Control Plan (Basin Plan[4]) and/or the National Toxics Rule.

The Policy stipulates that the Regional Board shall issue letters to all dischargers requiring submittal of data sufficient for the purposes stated above. The Policy further stipulates that data must be submitted no later than May 18, 2003. These data requirements are in section 1.2 of the Policy. Section 3 of the Policy specifically addresses data for dioxins and furans. These requirements are manditory statewide and other Regions in the State have issued similar requirements.

Parameters to Monitor

Data should be collected on all 126 priority pollutants, total solids (SM 2540 B), and the discharge flow rate at the time of the sampling. Additionally, municipal sewage treatment plant effluent dischargers should include tributyltin, diazinon, and chlorpyriphos. Dischargers of cooling tower blowdown should include tributyltin. These pollutants are listed in Enclosure A of this letter.

In some cases, receiving water monitoring should also include pH, hardness, salinity, and stream flow rate measurements at the time of sampling for the toxic pollutants. Factors to consider when these should be measured are described below under Receiving Water Monitoring.

Shortening the List of Pollutants

Dischargers may propose a shorter list of pollutants than the list above, if they can certify to the absence of a pollutant on a pollutant-by-pollutant basis. This certification must be substantiated with both of the following:

- analytical data showing that the pollutant is not present in the influent water at levels above the lowest applicable criterion, or the lowest MLs listed in Enclosure A; and
- if chemicals are used in the treatment process, or other process after the influent point, these chemicals do not add the pollutant to the effluent discharged.

Analytical Methodology

Enclosure A lists the pollutants and parameters to monitor in the effluent and receiving water, along with suggested analytical methods for the 126 priority pollutants, and other toxic pollutants. In summary, the methods are:

- GFAA for antimony, beryllium, nickel, silver and thallium
- ICP for cadmium and zinc
- SPGFAA for copper and lead
- EPA Method 1631 for mercury[5],
- Gas Hydride generation AA for arsenic and selenium
- Standard Methods 3500 (colormetric) for hexavalent chromium. Analysis for total chromium may be substituted if the level measured is below the criterion for hexavalent chromium (11 ug/l).

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[4] The Basin Plan can be downloaded from www.swrcb.ca.gov/~rwqcb2

[5] Please refer to our letters of August 19, 1999, and October 22, 1999, concerning use of ultra-clean techniques for monitoring of effluent and receiving waters. Ultra-Clean techniques minimize contamination of samples from common sampling and analytical practices. The letters are available on our website at www.swrcb.ca.gov/~rwqcb2 under Basin Plan, Current Issues.

- Standard Method 4500-CN^- C, or 4500-CN^- I for cyanide,
- EPA Method 1613 for dioxins and furans
- EPA Methods 601, and 602 for volatile organics, or EPA 624 if the method detection limits (MDL) can be demonstrated to fall below the minimum levels (ML) listed in Enclosure A for the GC methods (EPA 601 and 602)
- EPA Methods 603, 604, 610 (HPLC), and 606 for semi-volatiles, or EPA 625 if the MDLs can be demonstrated to fall below the MLs listed in Enclosure A for GC or HPLC methods (EPA 603, 604, 610 and 606)
- EPA Method 625 for other semi-volatiles
- EPA Method 608 for chlorinated pesticides and PCBs
- EPA Method 614 for organophosphate pesticides (required only for municipal sewage)
- For tributyltin, Batelle N-0959-2606 or an alternate method approved for treated wastewater (required only for cooling tower blowdown, and municipal sewage)

You have the option of substituting another method for those listed above or in Enclosure A, but only if that method has a level of quantification below the applicable criterion or below the lowest ML listed in Enclosure A. For effluent monitoring, this alternate method must also be U.S. EPA approved (such as the 8000 or 1600 series) or one of those listed in Enclosure A. For receiving water monitoring, you have more flexibility in selection of methods. You may use these EPA methods, or you may use another method that has been scientifically peer reviewed, such as those methods employed in the Regional Monitoring Program[6], provided that method has a level of quantification below the applicable criterion or the lowest ML listed in Enclosure A.

For some organic pollutants, the currently available analytical detection limit is not low enough for the purposes stated earlier. These are marked with an asterisk in Enclosure A. Concerning these pollutants, you have two options, **either**:

- use the available EPA Method, **<u>or</u>**

- participate in a study with other dischargers, through the RMP, to investigate the feasibility and reliability of different methods of increasing the sample volumes to lower the detection limits for a subset of these pollutants, and present the preferred method for approval by the U.S. EPA, Region 9. The methodology to investigate for increasing sample volumes is a research method developed by the University of Utah and currently used for ambient bay water sampling in the RMP. A similar methodology was developed by a contract laboratory, Axys Analytical Laboratories in Vancouver, Canada.

If you choose the first option and get non-detect results, these non-detects will not show conclusively that the pollutant is not in the effluent at levels of concern, because the detection limit is above of the criterion. More monitoring will be required in this case.

The second option is more involved and will require coordination with many other parties. However, if successful, it has good potential to allow measurements at the levels needed for regulatory purposes.

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[6] San Francisco Estuary Regional Monitoring Program for Trace Substances is an ongoing monitoring program funded by major dischargers to San Francisco Bay to characterize contaminant concentration and distribution, determine general sources and loadings of contaminants, and assess contaminant effect of selected parts of the estuary. This program is managed by the San Francisco Estuary Institute (www.sfei.org).

This could lead to a finding that the pollutants are not present at levels of concern and thus no need for future monitoring.

We appreciate that development of alternate test procedures may be an involved process. In consideration of this, it will be acceptable to develop procedures for just a subset of pollutants as a pilot project. We suggest the chlorinated pesticides in EPA 608 as this subset, because a few of them are on the list of pollutants impairing the Bay (chlordane, 4,4'DDT, and dieldrin). Such an effort will also contribute to the development of Total Maximum Daily Loads for these impairing pollutants.

If you choose to participate in this pilot project, you will not have to run EPA Methods 625 and 608, but the other methods are required at this time. We will also allow additional time beyond the final report submittal date of 180 days before permit expiration, for submittal of data on these pollutants. However, dischargers with effluent limits for 4,4'-DDE and dieldrin should monitor their effluent with EPA 608 at the minimum frequency of once every five years.

Please note that this pilot project is an option only. You may choose to not pursue it and simply run the standard EPA methods. However, in the interest of furthering discharge characterization and TMDL development, we encourage that you re-direct some of your analytical resources towards pursuing the option of developing a lower detection limit study.

Effluent Monitoring

To fulfill the requirement of this letter for effluent monitoring, the data you submit must be sufficient to characterize the concentration of each toxic pollutant in the effluent at the point of discharge. Please consider the following minimum requirements when preparing your sampling plans for effluent monitoring. These are summarized on Table 1 (attached).

Major Dischargers

- Frequency of monitoring should be determined after considering the variability of the discharge. Factors that can cause variability are influent composition, treatment plant design and operation, and rainfall.
    - For metals and cyanide, we believe the minimum frequency is once each month. If your Permit specifies more frequent monitoring, then that should be the frequency.
    - For organics (including tributyltin), the minimum frequency is twice each year. If your discharge may be influenced by wet weather, the samples should be timed for once in the dry season (May to September) and once in the wet season (October to April).
    - Additionally, we suggest including a provision for accelerating the frequency to collect more data for a pollutant if that pollutant is measured close to or above its applicable criterion (see Enclosure A). The intent of this is to allow characterization of the effluent for the purpose of determining performance based interim limits should that be necessary.
- Type of sample (i.e., grab verses composite), sample preservation and handling should follow U.S. EPA regulations (40 CFR 136.3[7]) and other practices as described in the Standard Methods for the Examination of Water and Wastewater.
    - In determining the type of sample---grab v. composite---you should consider the variability of the effluent during the day.

[7] This can be viewed at http://www.access.gpo.gov/nara/cfr/cfrhtml_00/Title_40/40cfr136_00.html

  - In general, a flow-weighted composite over a 24-hour period is preferable.
  - Grab samples instead of automatic compositors should be used for constituents that are somewhat volatile, chemically unstable, or are hydrophobic.
  - This is to minimize loss of the constituent through volatilization during compositing, and/or losses through adsorption onto tubing and other compositor equipment.
  - These include mercury, hexavalent chromium, cyanide, volatile organics (EPA 601, 602), semi-volatile organics (EPA 603, 604, 606) and hydrophobic organics (EPA 610, 625, 608, 1631).
  - A grab sample for Total Solids analysis should be collected coincident with each grab sample for the hydrophobic organics.
- 24-hour composites may be made up of discrete grabs collected over the course of a day and volumetrically or mathematically flow-weighted. Samples for inorganic pollutants maybe combined prior to analysis. Samples for organic pollutants should be analyzed separately. If only one grab sample will be collected, it should be collected during periods of maximum peak flows.

Minor Dischargers

- Frequency of monitoring should be determined after considering the variability of the discharge. Factors that can cause variability are influent composition, treatment plant design and operation, and weather.
  - For metals, the minimum frequency is once each calendar quarter for the next two years. If your Permit specifies more frequent monitoring, then that should be the frequency.
  - For organic pollutants from minor sewage treatment facilities, the minimum frequency is once in the dry season (May to September), and once in the wet season (October to April) for the next two years, except for dioxins and furans (EPA 1613). For dioxins and furans, in consideration of cost, this wet and dry season sampling is required for only one out of the next two years.
  - For organic pollutants from other facility types, the minimum frequency is once in the dry season (May to September) and once in the wet season (October to April) for just one out of the next two years. Dischargers with facilities of similar types and nature of discharge may coordinate in a group effort to characterize the effluent for that type of discharge (ex. rock quarry operations, same reclamation, reverse osmosis brine).
  - For all discharge types, we suggest including a provision for accelerating the frequency to collect more data for a pollutant if that pollutant is measured close to or above its applicable criterion (see Enclosure A). The intent of this is to allow characterization of the effluent for the purpose of determining performance based interim limits should that be necessary.
- Type of sample. Please refer to the discussion above under Major Dischargers.

<u>Receiving Water Monitoring</u>

To fulfill this requirement, the data you submit must be sufficient to characterize the concentration of each toxic pollutant in the ambient receiving water. The data on the conventional water quality parameters (pH, salinity, and hardness) should also be sufficient to characterize these parameters in the ambient receiving water at a point after the discharge has mixed with the receiving waters.

The frequency of monitoring should consider seasonal variability of the receiving water. Please consider the following minimum requirements when preparing your sampling plan for receiving water monitoring:

Dischargers to Bays through Deep Water Diffusers

- the concentration of each pollutant listed in Enclosure A in the receiving water that provides dilution for the discharge. Because of the dominance of tidal flushing in San Francisco Bay, it would be acceptable to select stations representative of incoming ocean waters.

Dischargers to Estuarine/Tidal Areas of Rivers and Sloughs

- the concentration of each constituent listed in Enclosure A in the receiving water that provides dilution for the discharge. As for dischargers to the Bay, tidal flushing may also be considered in selection of sampling sites. However, the site-specific relative significance of tidal flushing verses riverine outflow should be assess and provided to justify selection of the sampling sites.
- the pH, hardness, and salinity in the receiving water downstream of the point of discharge after the discharge has mixed with the receiving water;

Dischargers to Upland Freshwater Rivers and Streams

- the concentration of each constituent listed in the Enclosure A in the receiving water upstream of the point of discharge.
- the flow rate of the river at the time of sampling upstream of the point of discharge.
- the pH, hardness, and salinity in the receiving water downstream of the point of discharge;

For receiving water monitoring in the Bay and its estuarine fringe, whenever feasible, we encourage the dischargers to participate in a group effort utilizing monitoring mechanisms that are already in place such as the Regional Monitoring Program. For dischargers to upland creeks or streams, you may also coordinate with other dischargers in your area to collect the necessary receiving water data. When a group effort is used, we will accept the sampling plan from the group in lieu of individual plans. This group plan should list the dischargers in the group, and describe the justification for why the receiving water data gathered will be relevant and applicable to each of the listed dischargers.

Applicability of Historic Discharge Data

You may use priority pollutant data that you collected in the past to comply with, or to supplement, the requirements of this letter, provided all the following conditions are met:

- The historic data were based on samples collected and analyzed using approved methodology;
- The quantification limits (or MLs) for the historic data are as low as the lowest MLs in Enclosure B.
- The historic data are representative of current discharge (i.e., treatment system has not changed, and influent sources have not substantially changed).

If you plan to use historic data, please state this intend in the Sampling Plan with a justification of the representativeness of the data. In this case, the requirement for a concurrent total solids (SM 2540 B) analysis is waived for the historic data. You should also present the historic data together with any new data in the final report due 180 days prior to permit expiration.

Reporting Requirements

Reporting requirements for the data are contained in Enclosure B of this letter. These requirements are based on the State Implementation Policy and are summarized below:

- Report the measured (or estimated) concentration for each pollutant.
- Report the quantifiable limit (Minimum Level), and the Method Detection Limit for each pollutant.
- Report the dioxin TEQ for each sample.
    - TEQ = sum of the measured or estimated concentration for each congener multiplied by its respective TEF (see Enclosure B). Assume zero for congeners that are below the method detection limit (MDL), and use estimated and measured values in the calculation.
- Report effluent monitoring data as part of the routine self-monitoring reports.
- By May 18, 2003, compile the data collected to date into a report, and submit the report to the Regional Board. If group efforts are used such as for receiving water monitoring, one report for the group is acceptable.
- 180 days prior to permit expiration (after May 18, 2003), submit a final report with the data to the Regional Board with the application for NPDES permit reissuance. This includes any influent or historic data you used as justification for reducing the monitoring requirements. If group efforts are used for receiving water monitoring, reference to that data is sufficient.

Sampling Plan

You must submit by October 1, 2001, a sampling plan for the above monitoring that is acceptable to the Executive Officer. The sampling plan should specify sampling parameters, monitoring frequencies, locations, and analytical methods to be used. Your cover letter should certify that the proposed sampling plan will yield data that adequately characterize the effluent and receiving water for the purposes stated above, and provide justification.

When a group effort is used, we will accept the sampling plan from the group in lieu of individual plans. This group plan should list the dischargers in the group, and describe the justification for why the data gathered will be relevant and applicable to each of the dischargers on the list.

Interim and Final Reports

An interim report is due on May 18, 2003. The report should summarize the data collected to date, and describe future monitoring to take place. You should submit a final report that presents all the data 180 days prior to your facility's permit expiration date. This final report should be submitted with the application for permit reissuance. For dischargers with permits that expire before May 18, 2003, the final report is due with the application that is due after May 18, 2003.

For questions regarding this letter, please refer to the contact information indicated on the first page of this letter.

Sincerely,

Loretta K. Barsamian
Executive Officer

Enclosures

Table 1. Summary of Minimum Effluent Monitoring Requirements[1]

	Constituent	Suggested Analytical Method	Minimum Frequency[2]	Sample Type
Major Dischargers	Metals (except mercury, and hexavalent chromium)	GFAA or ICP, and Gas hydride AA for As and Se	Once each month	24 hr composite
	Hexavalent chromium[3]	Standard Method 3500	Once each month	grab
	Mercury	EPA 1631	Once each month	grab
	Cyanide	Standard Method 4500-CN^- C or I	Once each month	grab
	Dioxins and Furans (with total solids)[4]	EPA 1613	Once in summer, once in winter	grab
	Volatile and semi-volatile organics	EPA 601, 602, 603, 604, 606, 610 (HPLC) or equivalent GC/MS method[5]	Once in summer, once in winter	grab
	Other organics, chlorinated pesticides and PCBs (w/ TS)[4]	EPA 625, 608	Once in summer, once in winter	grab
Major municipal sewage treatment plants only	Organophosphate pesticides	EPA 614	Once in summer, once in winter	24-hr composite
Cooling tower blowdown, and major municipal sewage treatment plants	Tributyltin	Batelle N-0959-2606 or EBMUD method for treated wastewater[6]	Once in summer, once in winter	grab
Minor Dischargers	Metals (except mercury and hexavalent chromium)	GFAA or ICP, and Gas hydride AA for As and Se	Once each calendar quarter	24-hr composite
	Hexavalent chromium[3]	Standard Method 3500	Once each calendar quarter	grab
	Mercury	EPA 1631	Once each calendar quarter	grab
	Cyanide	Standard Method 4500-CN^- C or I	Once each calendar quarter	grab
	Dioxins and Furans (with total solids)[4]	EPA 1613	Once during the summer, once during the winter for one out of the next two years.	grab
	Volatile and semi-volatile organics	EPA 601, 602, 603, 604, 606, 610 (HPLC) or equivalent GC/MS method[5]	Once during the summer, once during the winter	grab
	Other organics, chlorinated pesticides and PCBs (w/ TS)[4]	EPA 625, 608	Once during the summer, once during the winter	grab
Dischargers to MUN[6] designated receiving waters	Asbestos	EPA 100.2 (EPA 600/R-94-134, June 1994)	Once during the term of this study	24-hr composite

[1] The discharge flow should be measured during sampling for toxic pollutants.
[2] We suggest increasing the frequency above this minimum for a pollutant if that pollutant is measured close to or above its criterion in Enclosure A.
[3] Total Chromium may be substituted to for Hexavalent Chromium at the discharger's discretion.
[4] A grab sample for total solids analysis (SM 2540B) should be collected coincident with each grab sample for EPA 1613 (dioxins/furans), and 608.
[5] The equivalent GC/MS method must be able to quantify to an equivalent level as the GC methods listed above.
[6] MUN = Municipal and Domestic Supply. This designation, if applicable, is in the Findings of the NPDES Permit.

Enclosure A

List of Monitoring Parameters and Analytical Methods

CTR No.	Pollutant/Parameter	Criterion Approx.[1] µg/l	Analytical Method[2]	Optional Lower DL Study[3]	Minimum Levels[4] µg/l											
					GC	GCMS	LC	Color	FAA	GFAA	ICP	ICP MS	SPGFAA	HYD RIDE	CVAA	DCP
1.	Antimony	14	204.2						10	5	50	0.5	5	0.5		1000
2.	Arsenic	36	206.3					20		2	10	2	2	1		1000
3.	Beryllium								20	0.5	2	0.5	1			1000
4.	Cadmium	2.2	200 or 213					10	0.5	10	0.25	0.5				1000
5a.	Chromium (III)	180	SM 3500													
5b.	Chromium (VI)	11	SM 3500					10	5							1000
6.	Copper	3.1	200.9						25	5	10	0.5	2			1000
7.	Lead	2.5	200.9						20	5	5	0.5	2			10,000
8.	Mercury	0.025	1631 (note 5)									0.5			0.2	
9.	Nickel	7.1	249.2						50	5	20	1	5			1000
10.	Selenium	5	SM 3114B or C							5	10	2	5	1		1000
11.	Silver	1.2	272.2						10	1	10	0.25	2			1000

[1] The criterion serves only as a point of reference for the selection of the appropriate analytical method.

- Some metals are hardness dependent and are expressed as dissolved values. The above listed criteria have not been translated to total values and may be too low or too high depending on the actual hardness of your receiving water.
- Two criteria are listed for some organics. The value in parentheses are applicable only to those dischargers who discharge to MUN designated receiving waters (Municipal and Domestic Supply).

[2] The suggested method is the U.S. EPA Method unless otherwise specified (SM = Standard Methods). The discharger may use another U.S. EPA approved or recognized method if that method has a level of quantification below the applicable criterion. Where no method is suggested, the discharger has the discretion to use any standard method.

[3] Constituents where this column is asterisked "*" indicates that the currently available analytical technique is not low enough for the stated purpose of this letter requirement. The discharger has the option of 1) going forth with the current U.S. EPA analytical method, or 2) participating in a regional study to investigate the feasibility and reliability of increasing sample volumes to lower the detection limits.

[4] Minimum levels are from the State Implementation Policy. They are the concentration of the lowest calibration standard for that technique based on a survey of contract laboratories. Laboratory techniques are defined as follows: GC = Gas Chromatography; GCMS = Gas Chromatography/Mass Spectrometry; LC = High Pressure Liquid Chromatography; Color = Colorimetric; FAA = Flame Atomic Absorption; GFAA = Graphite Furnace Atomic Absorption; Hydride = Gaseous Hydride Atomic Absorption; CVAA = Cold Vapor Atomic Absorption; ICP = Inductively Coupled Plasma; ICPMS = Inductively Coupled Plasma/Mass Spectrometry; SPGFAA = Stabilized Platform Graphite Furnace Atomic Absorption (i.e. U.S. EPA 200.9); DCP = Direct Current Plasma.

[5] The Minimum level for mercury is 2 ng/l (or 0.002 ug/l) pursuant to Regional Board letters dated August 4, 1999, and October 22, 1999.

CTR No.	Pollutant/Parameter	Criterion Approx.[1] µg/l	Analytical Method[2]	Optional Lower DL Study[3]	Minimum Levels[4] µg/l											
					GC	GCMS	LC	Color	FAA	GFAA	ICP	ICP MS	SPGFAA	HYD RIDE	CVAA	DCP
12.	Thallium	1.7	279.2						10	2	10	1	5			1000
13.	Zinc	58	200 or 289						20		20	1	10			
14.	Cyanide	1	SM 4500 CN^- C or I	*				5								
15.	Asbestos (only required for dischargers to MUN waters[2])	7,000,000 fibers/L	0100.2 [6]													
16.	2,3,7,8-TCDD, 17 congeners (Dioxin)	0.13E-07	1613	*												
17.	Acrolein	320	603		2.0	5										
18.	Acrylonitrile	0.059	603	*	2.0	2										
19.	Benzene	1.2	602		0.5	2										
33.	Ethylbenzene	3100	602		0.5	2										
39.	Toluene	6,800	602		0.5	2										
20.	Bromoform	4.3	601	*	0.5	2										
21.	Carbon Tetrachloride	0.25	601	*	0.5	2										
22.	Chlorobenzene	680	601		0.5	2										
23.	Chlorodibromomethane	34(0.401)	601	(*)	0.5	2										
24.	Chloroethane		601		0.5	2										
25.	2-Chloroethylvinyl Ether		601		1	1										
26.	Chloroform		601		0.5	2										
75.	1,2-Dichlorobenzene	2700	601		0.5	2										
76.	1,3-Dichlorobenzene	400	601		0.5	2										
77.	1,4-Dichlorobenzene	400	601		0.5	2										
27.	Dichlorobromomethane	0.56	601		0.5	2										
28.	1,1-Dichloroethane		601		0.5	1										
29.	1,2-Dichloroethane	0.38	601	*	0.5	2										
30.	1,1-Dichloroethylene or 1,1-Dichloroethene	3.2(0.057)	601	(*)	0.5	2										
31.	1,2-Dichloropropane	0.52	601		0.5	1										
32.	1,3-Dichloropropylene or 1,3-Dichloropropene	10	601		0.5	2										
34.	Methyl Bromide or Bromomethane	48	601		1.0	2										
35.	Methyl Chloride or Chloromethane		601		0.5	2										
36.	Methylene Chloride or Dichlorormethane	4.7	601		0.5	2										
37.	1,1,2,2-Tetrachloroethane	11(0.17)	601	(*)	0.5	1										

[6] Determination of Asbestos Structures over 10 [micrometers] in Length in Drinking Water using MCE filters, U.S. EPA 600/R-94-134, June 1994.

CTR No.	Pollutant/Parameter	Criterion Approx.[1] µg/l	Analytical Method[2]	Optional Lower DL Study[3]	Minimum Levels[4] µg/l											
					GC	GCMS	LC	Color	FAA	GFAA	ICP	ICP MS	SPGFAA	HYD RIDE	CVAA	DCP
38.	Tetrachloroethylene	8.85(0.8)	601	(*)	0.5	2										
40.	1,2-Trans-Dichloroethylene	700	601		0.5	1										
41.	1,1,1-Trichloroethane		601		0.5	2										
42.	1,1,2-Trichloroethane	42(0.60)	601		0.5	2										
43.	Trichloroethene	2.7)	601		0.5	2										
44.	Vinyl Chloride	2(525)	601		0.5	2										
45.	2-Chlorophenol	120	604		2	5										
46.	2,4-Dichlorophenol	93	604		1	5										
47.	2,4-Dimethylphenol	540	604		1	2										
48.	2-Methyl-4,6-Dinitrophenol or Dinitro-2-methylphenol	13.4	604		10	5										
49.	2,4-Dinitrophenol	70	604		5	5										
50.	2-Nitrophenol		604			10										
51.	4-Nitrophenol		604		5	10										
52.	4-chloro-3-methylphenol		604		5	1										
53.	Pentachlorophenol	7.9(0.28)	604	(*)	1	5										
54.	Phenol	21,000	604		1	1		50								
55.	2,4,6-Trichlorophenol	2.1	604	*	10	10										
56.	Acenaphthene	1,200	610 HPLC		1	1	0.5									
57.	Acenaphthylene		610 HPLC			10	0.2									
58.	Anthracene	9,600	610 HPLC			10	2									
60.	Benzo(a)Anthracene or 1,2 Benzanthracene	0.0044	610 HPLC	*	10	5										
61.	Benzo(a)Pyrene	0.0044	610 HPLC	*		10	2									
62.	Benzo(b)Fluoranthene or 3,4 Benzofluoranthene	0.0044	610 HPLC	*		10	10									
63.	Benzo(ghi)Perylene		610 HPLC			5	0.1									
64.	Benzo(k)Fluoranthene	0.0044	610 HPLC	*		10	2									
74.	Dibenzo(a,h) Anthracene	0.0044	610 HPLC	*		10	0.1									
86.	Fluoranthene	300	610 HPLC		10	1	0.05									
87.	Fluorene	1,300	610 HPLC			10	0.1									
92.	Indeno(1,2,3-cd)Pyrene	0.0044	610 HPLC	*		10	0.05									
100.	Pyrene	960	610 HPLC			10	0.05									
68.	Bis(2-Ethylhexyl) Phthalate	1.8	606 or 625	*	10	5										
70.	Butylbenzyl Phthalate	3,000	606 or 625		10	10										
79.	Diethyl Phthalate	23,000	606 or 625		10	2										
80.	Dimethyl Phthalate	31,3000	606 or 625		10	2										

CTR No.	Pollutant/Parameter	Criterion Approx.[1] µg/l	Analytical Method[2]	Optional Lower DL Study[3]	Minimum Levels[4] µg/l											
					GC	GCMS	LC	Color	FAA	GFAA	ICP	ICP MS	SPGFAA	HYD RIDE	CVAA	DCP
81.	Di-n-Butyl Phthalate	2,700	606 or 625			10										
84.	Di-n-Octyl Phthalate		606 or 625			10										
59.	Benzidine	0.00012	625	*		5										
65.	Bis(2-Chloroethoxy) Methane		625			5										
66.	Bis(2-Chloroethyl) Ether	1.4(0.031)	625	(*)	10	1										
67.	Bis(2-Chloroisopropyl) Ether	1,400	625		10	2										
69.	4-Bromophenyl Phenyl Ether		625		10	5										
71.	2-Chloronaphthalene	1,700	625	*		10										
72.	4-Chlorophenyl Phenyl Ether		625			5										
73.	Chrysene	0.0044	625	*		10	5									
78.	3,3'-Dichlorobenzidine	0.04	625	*		5										
82.	2,4-Dinitrotoluene	9.1(0.11)	625	(*)	10	5										
83.	2,6-Dinitrotoluene		625			5										
85.	1,2-Diphenylhydrazine (note 7)	0.04	625	*		1										
88.	Hexachlorobenzene	0.00075	625	*	5	1										
89.	Hexachlorobutadiene	50(0.44)	625	(*)	5	1										
90.	Hexachlorocyclopentadiene	240	625		5	5										
91.	Hexachloroethane	8.9(1.9)	625		5	1										
93.	Isophorone	8.4	625		10	1										
94.	Naphthalene		625		10	1	0.2									
95.	Nitrobenzene	17	625		10	1										
96.	N-Nitrosodimethylamine	8.1(0.00069)	625	(*)	10	5										
97.	N-Nitrosodi-n-Propylamine	0.005	625	*	10	5										
98.	N-Nitrosodiphenylamine	5	625		10	1										
99.	Phenanthrene		625			5	0.05									
101.	1,2,4-Trichlorobenzene		625		1	5										
102.	Aldrin	0.00013	608	*	0.005											
103.	α-BHC	0.0039	608	*	0.01											
104.	β-BHC	0.014	608		0.005											
105.	γ-BHC (Lindane)	0.019	608	*	0.02											
106.	δ-BHC		608		0.005											
107.	Chlordane	0.00057	608	*	0.1											
108.	4,4'-DDT	0.00059	608	*	0.01											

[7] Measurement for 1,2-Diphenylhydrazine may use azobenzene as a screen: if azobenzene measured at >1 ug/l, then analyze for 1,2-Diphenylhydrazine.

CTR No.	Pollutant/Parameter	Criterion Approx.[1] µg/l	Analytical Method[2]	Optional Lower DL Study[3]	Minimum Levels[4] µg/l											
					GC	GCMS	LC	Color	FAA	GFAA	ICP	ICP MS	SPGFAA	HYD RIDE	CVAA	DCP
109.	4,4'-DDE	0.00059	608	*	0.05											
110.	4,4'-DDD	0.00083	608	*	0.05											
111.	Dieldrin	0.00014	608	*	0.01											
112.	Endosulfan (alpha)	0.0087	608	*	0.02											
113.	Endosulfan (beta)	0.0087	608	*	0.01											
114.	Endosulfan Sulfate	110	608		0.05											
115.	Endrin	0.0023	608	*	0.01											
116.	Endrin Aldehyde	0.76	608		0.01											
117.	Heptachlor	0.00021	608	*	0.01											
118.	Heptachlor Epoxide	0.0001	608	*	0.01											
119-125	PCBs: Aroclors 1016, 1221, 1232, 1242, 1248, 1254, 1260	0.00017	608	*	0.5											
126.	Toxaphene	0.00073	608	*	0.5											
	Tributyltin	0.01	(see note 8)	Tributyltin is only required for sewage treatment plant discharges, and cooling tower blowdown discharges.												
	Chlorpyrifos	0.0056	614	Chloropyrifos and Diazinon are only required for sewage treatment plant discharges												
	Diazinon	0.05	614	Chloropyrifos and Diazinon are only required for sewage treatment plant discharges												
	Total Solids		SM 2540B	Grab sample at the same time as samples for dioxins and furans, and PCBs												
	pH			Required only for discharges to estuarine or fresh water rivers or streams, at a location upstream of the point of discharge.												
	Stream Flow Rate, upstream			Required only for discharges to estuarine or fresh water rivers or streams, at a location upstream of the point of discharge.												
	Hardness			Required only for discharges to estuarine or fresh water rivers or streams, at a location downstream of the point of discharge.												
	Salinity			Required for all discharges at a location downstream of the point of discharge.												

[8] Battelle technical article N-0959-2602, or East Bay Municipal Utilities District method for wastewaters

Enclosure B

Data Reporting Requirements

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1. Sample results greater than or equal to the laboratories reported minimum levels (ML), shall be reported as measured by the laboratory.

2. Sample results less than the reported ML, but greater than or equal to the laboratory's method detection limit (MDL), shall be reported as "detected, but not quantified" or DNQ. The estimated concentration of the sample shall be reported and may be qualified by a notation as an estimated value measured below the lowest calibration standard.

3. Sample results less than the laboratory's method detection limit (MDL) shall be reported as "not detected" or ND. The MDL is determined by the procedure in 40CFR136. This MDL value shall be reported.

4. For Chlorinated dibenzodioxin (CDD) and chlorinated dibenzofuran (CDF), report the TEQ for each sample. TEQ = sum of the measured or estimated concentration for each congener multiplied by its respective TEF (shown below). Assume zero for congeners that are below the method detection limit, and use estimated and measured values in the calculation.

Congener	World Health Organization 1998 Toxicity Equivalence Factor (TEF)
2,3,7,8-tetra CDD	1
1,2,3,7,8-penta CDD	1
1,2,3,4,7,8-hexa CDDs	0.1
1,2,3,6,7,8-hexa CDDs	0.1
1,2,3,7,8,9-hexa CDDs	0.1
1,2,3,4,6,7,8-hepta CDD	0.01
octa CDD	0.0001
2,3,7,8-tetra CDF	0.1
1,2,3,7,8-penta CDF	0.05
2,3,4,7,8-penta CDF	0.5
1,2,3,4,7,8-hexa CDFs	0.1
1,2,3,6,7,8-hexa CDFs	0.1
2,3,4,6,7,8-hexa CDFs	0.1
1,2,3,4,6,7,8-hepta CDFs	0.01
1,2,3,4,7,8,9-hepta CDFs	0.01
octa CDF	0.0001

5. If you are submitting self-monitoring data electronically under the Electronic Reporting System, you may submit the effluent data as part of your routine self-monitoring reports. In this case, we waive the requirement to submit a final report of the results on effluent monitoring. However, you must still submit a report of the receiving water monitoring on May 18, 2003.

Enclosure C

Dischargers with Permit Monitoring Requirements Amended by Letter

For dischargers with permit that the Board has reissued within the last year contain provisions for similar monitoring as required by this letter, please note that this letter does not change the deadlines specified in those Permits. However, this letter does change some of the Self-Monitoring Program specifications specifically concerning the elements below:

1. addition of a grab for Total Solids (Standard Methods 2540B) concurrent with organics pollutant samples,
2. addition of organophospate pesticides and tributyltin,
3. type of sample (grab verse composite),
4. minimum sampling frequency, and
5. analytical methodology.

With respect to these specific sampling elements, this letter serves as amendment of the self-monitoring programs for the dischargers listed below:

1. Napa Sanitation District
2. Mountain View Sanitary District
3. East Bay Dischargers Authority, Cities of Hayward and San Leandro, Oro Loma/Castro Valley Sanitary Districts, Union Sanitary District, and Livermore-Amador Valley Water Management Agency
4. Dublin San Ramon Services District and Livermore-Amador Valley Water Management Agency
5. City of Livermore and Livermore-Amador Valley Water Management Agency
6. USS-PPSCO Industries
7. City of Calistoga, Wastewater Treatment Plant
8. South Bayside System Authority
9. Chevron U.S.A., Inc., Richmond Refinery
10. Sewage Agency of Southern Marin
11. East Bay Municipal Utilities District
12. City of San Mateo, Water Quality Control Plant
13. Central Contra Costa Sanitary District

Enclosure D
Sampling Plan Outline

Introduction

The introduction section should include the information listed below:

- Facility Name
- Discharge Volume
- Description of discharge outfall location(s)
- NPDES Permit Number
- Board Order Number

Certification of Adequacy of Sampling Plan

Based on your assessment of the variability of the effluent, there should be a statement that sampling in accordance with the proposed plan should yield data that adequately characterize the effluent and receiving water for the purposes stated on page 2 of the letter.

Sampling Locations

Include a map of appropriate scale showing the locations of the discharge(s), and the locations of the receiving water sampling stations.

Sampling Logistics

Paragraph one should indicate the dates and times that sampling is expected to take place. This information can be summarized in a table such as, Example Table 1 shown below.

Paragraph two should discuss sampling techniques that will be employed during this sampling effort. Special attention should be given to the ultra clean techniques that will be employed for specific analytes.

Please Note: There are specific requirements for monitoring both effluent and receiving water. Sampling logistics for both of these areas should be noted in this section.

Example Table 1. Sampling Information

Constituent	Sampling Frequency	Sample Type
Mercury (Hg)	Once per month	Grab
Organophosphate pesticides	Twice per year (summer & winter)	24-hr composite
Asbestos	Summer 2002	24-hr composite

Sample Analysis

A brief description of the laboratories involved and their current certifications is sufficient. Any special circumstances concerning specific analytes or laboratories should be noted. An example of this type of

circumstance would be the substitution of a similar method for one of the ones listed. Example Table 2, shown below can be used to easily shown the laboratories completing the analyses.

Example Table 2. Laboratory Information

Constituent	Laboratory	Analysis Method
Mercury (Hg)	ABC Laboratories	EPA 1631
Organophosphate pesticides	California Analysis Laboratories	EPA 614
Asbestos	California Analysis Laboratories	EPA 0100.2

Personnel and Contact Information

This section should discuss who is involved with this sampling and analysis effort and each person's responsibilities. An example of how the contact information for each person could be listed is shown below.

Facility ContactFacility ContactFacility ContactFacility Contact

Steve Jackoviac
Harrieta WWTP
6801 W 30 Road
Harrietta, CA 00638
(510) 389-2211
(510) 389-2910 (fax)
jackovis@harriettawwtp.com

Sampling Contact

Charles Moore
Harrieta WWTP
6801 W 30 Road
Harrietta, CA 00638
(510) 389-2212
(510) 389-2910 (fax)
moorec@harriettawwtp.com

Analytical Laboratory ContactsAnalytical Laboratory ContactsAnalytical Laboratory ContactsAnalytical Laboratory Contacts

Metals
Chris Brown
ABC Laboratories
10306 Eaton Place, Suite 340
Fairfax, CA 00030
(510) 385-6000
(510) 385-6007 (fax)
chris.brown@abclabs.com

Organics

Jim Loving
California Analysis Laboratories
6101 Stevenson Avenue
Alexandria, CA 003304
(510) 461-2350
(510) 461-8156 (fax)
jloving@cal.org

Appendix 2. All Results for CTR Priority Pollutants in Previous Study and RMP S&T Monitoring (2002-2003)

Key:

<	indicates a non-detect, the subsequent number is lab provided MDL
E	estimated result
Q	qualified result (QA slightly outside target range)
R	rejected result (QA poor, non-quantitative and result censored)

SITE CODE	ANALYTE NAME	CTR #	LAB	METHOD	UNITS	2002-01	QA Code 2002-01	2002-07	QA Code 2002-07	2003-01	QA Code 2003-01	2003-08	QA Code 2003-08
BA30	Antimony	1	CALTEST	EPA 200.8	ug/L	< 0.01		1.3	E	0.7	E	< 0.03	
BA30	Antimony	1	UCSCDET	ICP-MS	ug/L	0.6149115		0.6384215		0.3609075		0.000612756	
BA30	Beryllium	3	CALTEST	EPA 200.8	ug/L	< 0.06		< 0.06		< 0.06		< 0.2	
BA30	Beryllium	3	UCSCDET	ICP-MS	ug/L	0.107011667		0.015685667		< 0.009769211		0.000007778	
BA30	Thallium	12	CALTEST	EPA 200.8	ug/L	< 0.03		< 0.03		< 0.03		0.16	E
BA30	Thallium	12	UCSCDET	ICP-MS	ug/L	0.060932167		0.040938167		0.006981167		0.000015488	
BA30	Cyanide	14	CCCSD	UNKNOWN	ug/L	< 0.4		< 0.4		< 0.4		< 0.4	
BA30	TCDD, 2,3,7,8-	16	AXYS	EPA 1613B	pg/L	0.023		-	R	< 0.0008		0.00502	E
BA30	TCDD, 2,3,7,8-	16	FAL	EPA 1613	pg/L			< 0.355				< 0.268	
BA30	Acrolein	17	CCCSD	EPA 624	ug/L	< 2.8		< 1.5		< 0.5		< 3	
BA30	Acrylonitrile	18	CCCSD	EPA 624	ug/L	< 1.1		< 1.4		< 0.5		< 1	
BA30	Acrylonitrile	18	CCCSD	EPA 624MOD	ug/L	< 0.03		< 0.03		< 0.02		< 0.02	
BA30	Acrylonitrile	18	PAI	EPA 1624	ug/L					< 20			
BA30	Acrylonitrile	18	PAI	EPA 1624MOD	ug/L	< 0.05		< 20		< 0.05			
BA30	Benzene	19	CCCSD	EPA 624	ug/L	< 0.3		< 0.5		< 0.5		< 1	
BA30	Benzene	19	PAI	EPA 1624MOD	ug/L	< 0.05		< 0.05		< 0.05			
BA30	Bromoform	20	CCCSD	EPA 624	ug/L	< 1.2		< 0.5		< 0.5		< 1	
BA30	Bromoform	20	PAI	EPA 1624	ug/L	< 2		< 2		< 2			
BA30	Carbon tetrachloride	21	CCCSD	EPA 624	ug/L	< 0.8		< 0.5		< 0.5		< 1	
BA30	Carbon tetrachloride	21	CCCSD	EPA 624MOD	ug/L	0.07		< 0.03		< 0.02		< 0.02	
BA30	Carbon tetrachloride	21	PAI	EPA 1624	ug/L					< 2			
BA30	Carbon tetrachloride	21	PAI	EPA 1624MOD	ug/L	< 2		< 0.05		< 0.05			
BA30	Chlorobenzene	22	CCCSD	EPA 624	ug/L	< 0.9		< 0.5		< 0.5		< 1	
BA30	Chlorobenzene	22	PAI	EPA 1624	ug/L	< 2		< 2		< 2			
BA30	Chlorodibromomethane	23	CCCSD	EPA 624	ug/L	< 0.9		< 0.5		< 0.5		< 1	
BA30	Chlorodibromomethane	23	PAI	EPA 1624MOD	ug/L	< 0.05		< 0.05		0.057			
BA30	Chloroethane	24	CCCSD	EPA 624	ug/L	< 1.1		< 0.9		< 0.5		< 5.2	
BA30	Chloroethane	24	PAI	EPA 1624	ug/L	< 2		< 2		< 2			
BA30	Chloroethyl vinyl ether, 2-	25	CCCSD	EPA 624	ug/L	< 0.8		< 0.5		< 0.5		< 0.5	
BA30	Chloroethyl vinyl ether, 2-	25	PAI	EPA 1624	ug/L	< 2		< 2		< 2			
BA30	Chloroform	26	CCCSD	EPA 624	ug/L	< 0.8		< 0.5		< 0.5		< 1	
BA30	Chloroform	26	PAI	EPA 1624	ug/L	< 2		< 2		< 2			
BA30	Bromodichloromethane	27	CCCSD	EPA 624	ug/L	< 0.9		< 0.5		< 0.5		< 1	
BA30	Bromodichloromethane	27	PAI	EPA 1624MOD	ug/L	< 0.05		< 0.05		< 0.05			
BA30	Dichloroethane, 1,1-	28	CCCSD	EPA 624	ug/L	< 0.5		< 0.5		< 0.8		< 1	
BA30	Dichloroethane, 1,1-	28	PAI	EPA 1624	ug/L					< 2			
BA30	Dichloroethane, 1,1-	28	PAI	EPA 1624MOD	ug/L	< 2		< 2		< 0.05			
BA30	Dichloroethane, 1,2-	29	CCCSD	EPA 624	ug/L	< 0.4		< 0.5		< 0.5		< 1	
BA30	Dichloroethane, 1,2-	29	CCCSD	EPA 624MOD	ug/L	0.04		< 0.03		< 0.02		< 0.02	
BA30	Dichloroethane, 1,2-	29	PAI	EPA 1624MOD	ug/L	< 0.05		< 0.05		< 0.05			
BA30	Dichloroethylene, 1,1-	30	CCCSD	EPA 624	ug/L	< 1		< 0.5		< 0.5		< 1	
BA30	Dichloropropane, 1,2-	31	CCCSD	EPA 624	ug/L	< 0.6		< 0.5		< 0.5		< 1	
BA30	Dichloropropane, 1,2-	31	PAI	EPA 1624MOD	ug/L	< 0.05		< 0.05		< 0.05			
BA30	Dichloropropene, cis 1,3-	32	CCCSD	EPA 624	ug/L	< 0.7		< 0.5		< 0.5		< 1	
BA30	Dichloropropene, cis 1,3-	32	PAI	EPA 1624	ug/L	< 2		< 2		< 2			
BA30	Ethylbenzene	33	CCCSD	EPA 624	ug/L	< 0.5		< 0.5		< 0.5		< 1	
BA30	Ethylbenzene	33	PAI	EPA 1624	ug/L	< 2		< 2		< 2			
BA30	Bromomethane	34	CCCSD	EPA 624	ug/L	< 1.2		< 1.1		< 0.5		< 3	
BA30	Bromomethane	34	PAI	EPA 1624	ug/L	< 2		< 2		< 2			
BA30	Chloromethane	35	CCCSD	EPA 624	ug/L	< 1		< 0.5		< 0.5		< 1	
BA30	Chloromethane	35	PAI	EPA 1624	ug/L	< 2		< 2		< 2			
BA30	Methylene Chloride	36	CCCSD	EPA 624	ug/L	< 1		< 0.5		< 0.5		< 1	
BA30	Tetrachloroethane, 1,1,2,2-	37	CCCSD	EPA 624	ug/L	< 1.1		< 0.5		< 0.5		< 2	
BA30	Tetrachloroethane, 1,1,2,2-	37	PAI	EPA 1624MOD	ug/L	< 0.05		< 0.05		< 0.05			
BA30	Tetrachloroethylene	38	CCCSD	EPA 624	ug/L	< 1.3		< 0.5		< 0.5		< 2	
BA30	Tetrachloroethylene	38	PAI	EPA 1624MOD	ug/L	< 0.05		< 0.05		< 0.05			
BA30	Toluene	39	CCCSD	EPA 624	ug/L	< 0.3		< 0.5		< 0.5		< 1	
BA30	Toluene	39	PAI	EPA 1624	ug/L	< 2		< 2		< 2			
BA30	Dichloroethylene, trans 1,2-	40	CCCSD	EPA 624	ug/L	< 1		< 0.5		< 1.5		< 1	
BA30	Trichloroethane, 1,1,1-	41	CCCSD	EPA 624	ug/L	< 0.7		< 0.5		< 0.5		< 1	
BA30	Trichloroethane, 1,1,1-	41	PAI	EPA 1624	ug/L	< 2		< 2		< 2			
BA30	Trichloroethane, 1,1,2-	42	CCCSD	EPA 624	ug/L	< 0.7		< 0.5		< 0.5		< 2	
BA30	Trichloroethane, 1,1,2-	42	PAI	EPA 1624MOD	ug/L	< 0.05		< 0.05		< 0.05			
BA30	Trichloroethylene	43	CCCSD	EPA 624	ug/L	< 0.8		< 0.5		< 0.5		< 1	
BA30	Trichloroethylene	43	PAI	EPA 1624	ug/L	< 2		< 2		< 2			
BA30	Vinyl Chloride	44	CCCSD	EPA 624	ug/L	< 1		< 0.5		< 0.9		< 1	
BA30	Vinyl Chloride	44	PAI	EPA 1624	ug/L	< 2		< 2		< 2			
BA30	Chlorophenol, 2-	45	CCCSD	EPA 625	ug/L	< 1.71		< 1.71		< 1.2		< 1.71	
BA30	Chlorophenol, 2-	45	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BA30	Dichlorophenol, 2,4-	46	CCCSD	EPA 625	ug/L	< 1.54		< 1.54		< 1.3		< 1.54	
BA30	Dichlorophenol, 2,4-	46	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BA30	Dimethylphenol, 2,4-	47	CCCSD	EPA 625	ug/L	< 3.57		< 3.57		< 1.3		< 3.57	
BA30	Dimethylphenol, 2,4-	47	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BA30	Dinitro-2-methylphenol, 4,6-	48	CCCSD	EPA 625	ug/L	< 1.34		< 1.34		< 1.2		< 1.34	
BA30	Dinitro-2-methylphenol, 4,6-	48	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BA30	Dinitrophenol, 2,4-	49	CCCSD	EPA 625	ug/L	< 1.44		< 1.44		< 0.7		< 1.44	
BA30	Dinitrophenol, 2,4-	49	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BA30	Nitrophenol, 2-	50	CCCSD	EPA 625	ug/L	< 1.47		< 1.47		< 1.3		< 1.47	
BA30	Nitrophenol, 2-	50	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BA30	Nitrophenol, 4-	51	CCCSD	EPA 625	ug/L	< 1.81		< 1.81		< 1.6		< 1.81	
BA30	Nitrophenol, 4-	51	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BA30	Chloro-3-methylphenol, 4-	52	CCCSD	EPA 625	ug/L	< 1.53		< 1.53		< 1.1		< 1.53	
BA30	Chloro-3-methylphenol, 4-	52	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BA30	Pentachlorophenol	53	CCCSD	EPA 625	ug/L	< 1.28		< 1.28		< 1		< 1.28	
BA30	Pentachlorophenol	53	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BA30	Phenol	54	CCCSD	EPA 625	ug/L	< 1.68		< 1.68		< 1.3		< 1.68	
BA30	Phenol	54	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BA30	Trichlorophenol, 2,4,6-	55	CCCSD	EPA 625	ug/L	< 1.34		< 1.34		< 1.3		< 1.34	
BA30	Trichlorophenol, 2,4,6-	55	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BA30	Acenaphthene	56	CCCSD	EPA 625	ug/L	< 0.33		< 0.33		< 0.3		< 0.33	
BA30	Acenaphthene	56	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BA30	Acenaphthylene	57	CCCSD	EPA 625	ug/L	< 0.36		< 0.36		< 0.3		< 0.36	
BA30	Acenaphthylene	57	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BA30	Anthracene	58	CCCSD	EPA 625	ug/L	< 0.21		< 0.21		< 0.4		< 0.21	

SITE CODE	ANALYTE NAME	CTR #	LAB	METHOD	UNITS	2002-01	QA Code 2002-01	2002-07	QA Code 2002-07	2003-01	QA Code 2003-01	2003-08	QA Code 2003-08
BA30	Anthracene	58	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BA30	Benzidine	59	CCCSD	EPA 625	ug/L	< 12.45		< 12.45		< 24.7		< 12.45	
BA30	Benzidine	59	CCCSD	EPA 625MOD	ug/L	< 0.0015		< 0.0015		< 0.002		< 0.0003	
BA30	Benzidine	59	PAI	EPA 1625MOD	ug/L	< 0.01		< 0.01		< 0.01			
BA30	Benz(a)anthracene	60	CCCSD	EPA 625	ug/L	< 0.21		< 0.21		< 0.4		< 0.21	
BA30	Benz(a)anthracene	60	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BA30	Benzo(a)pyrene	61	CCCSD	EPA 625	ug/L	< 0.22		0.29		< 0.3		< 0.22	
BA30	Benzo(a)pyrene	61	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BA30	Benzo(b)fluoranthene	62	CCCSD	EPA 625	ug/L	< 0.17		0.21		< 0.4		< 0.17	
BA30	Benzo(b)fluoranthene	62	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BA30	Benzo(g,h,i)perylene	63	CCCSD	EPA 625	ug/L	< 0.25		< 0.25		< 0.3		< 0.25	
BA30	Benzo(g,h,i)perylene	63	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BA30	Benzo(k)fluoranthene	64	CCCSD	EPA 625	ug/L	< 0.13		0.21		< 0.3		< 0.13	
BA30	Benzo(k)fluoranthene	64	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BA30	Bis(2-chloroethoxy)methane	65	CCCSD	EPA 625	ug/L	< 0.39		< 0.39		< 0.3		< 0.39	
BA30	Bis(2-chloroethoxy)methane	65	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BA30	Bis(2-chloroethyl)ether	66	CCCSD	EPA 625	ug/L	< 0.32		< 0.32		< 0.3		< 0.32	
BA30	Bis(2-chloroethyl)ether	66	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BA30	Bis(2-ethylhexyl)phthalate	68	AXYS	PH/01Rev.3	ug/L							-	R
BA30	Bis(2-ethylhexyl)phthalate	68	CCCSD	EPA 625	ug/L	0.93		< 0.67		< 0.5		< 0.67	
BA30	Bis(2-ethylhexyl)phthalate	68	PAI	EPA 1625	ug/L	15.2		< 10		< 10			
BA30	Bromophenyl phenyl ether, 4-	69	CCCSD	EPA 625	ug/L	< 0.23		< 0.23		< 0.3		< 0.23	
BA30	Bromophenyl phenyl ether, 4-	69	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BA30	Butyl benzyl phthalate	70	AXYS	PH/01Rev.3	ug/L							-	R
BA30	Butyl benzyl phthalate	70	CCCSD	EPA 625	ug/L	< 0.52		< 0.52		< 0.7		< 0.52	
BA30	Butyl benzyl phthalate	70	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BA30	Chloronaphthalene, 2-	71	CCCSD	EPA 625	ug/L	< 0.32		< 0.32		< 0.3		< 0.32	
BA30	Chloronaphthalene, 2-	71	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BA30	Chlorophenyl phenyl ether, 4-	72	CCCSD	EPA 625	ug/L	< 0.31		< 0.31		< 0.3		< 0.31	
BA30	Chlorophenyl phenyl ether, 4-	72	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BA30	Chrysene	73	CCCSD	EPA 625	ug/L	< 0.19		< 0.19		< 0.3		< 0.19	
BA30	Chrysene	73	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BA30	Dibenz(a,h)anthracene	74	CCCSD	EPA 625	ug/L	< 0.23		< 0.23		< 0.3		< 0.23	
BA30	Dibenz(a,h)anthracene	74	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BA30	Dichlorobenzene, 1,2-	75	CCCSD	EPA 624	ug/L	< 1.3		< 0.5		< 0.5		< 1	
BA30	Dichlorobenzene, 1,2-	75	CCCSD	EPA 625	ug/L	< 0.33		< 0.33		< 0.3		< 0.33	
BA30	Dichlorobenzene, 1,2-	75	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BA30	Dichlorobenzene, 1,3-	76	CCCSD	EPA 624	ug/L	< 1.5		< 0.5		< 0.5		< 1	
BA30	Dichlorobenzene, 1,3-	76	CCCSD	EPA 625	ug/L	< 0.33		< 0.33		< 0.3		< 0.33	
BA30	Dichlorobenzene, 1,3-	76	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BA30	Dichlorobenzene, 1,4-	77	CCCSD	EPA 624	ug/L	< 1.3		< 0.5		< 0.5		< 1	
BA30	Dichlorobenzene, 1,4-	77	CCCSD	EPA 625	ug/L	< 0.33		< 0.33		< 0.3		< 0.33	
BA30	Dichlorobenzene, 1,4-	77	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BA30	Dichlorobenzidine, 3,3'-	78	CCCSD	EPA 625	ug/L	< 4.37		< 4.37		< 5.2		< 4.37	
BA30	Dichlorobenzidine, 3,3'-	78	CCCSD	EPA 625MOD	ug/L	< 0.001		< 0.001		< 0.001		< 0.0002	
BA30	Dichlorobenzidine, 3,3'-	78	PAI	EPA 1625MOD	ug/L	< 0.004		< 0.004		< 0.004			
BA30	Diethyl phthalate	79	CCCSD	EPA 625	ug/L	0.3		< 0.24		< 0.5		< 0.24	
BA30	Diethyl phthalate	79	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BA30	Dimethyl Phthalate	80	CCCSD	EPA 625	ug/L	< 0.24		< 0.24		< 0.3		< 0.24	
BA30	Dimethyl Phthalate	80	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BA30	Di-n-butyl phthalate	81	AXYS	PH/01Rev.3	ug/L							-	R
BA30	Di-n-butyl phthalate	81	CCCSD	EPA 625	ug/L	2.2		< 1.07		< 0.5		< 1.07	
BA30	Di-n-butyl phthalate	81	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BA30	Dinitrotoluene, 2,4-	82	CCCSD	EPA 625	ug/L	< 0.27		< 0.27		< 0.4		< 0.27	
BA30	Dinitrotoluene, 2,4-	82	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BA30	Dinitrotoluene, 2,6-	83	CCCSD	EPA 625	ug/L	< 0.29		< 0.29		< 0.3		< 0.29	
BA30	Dinitrotoluene, 2,6-	83	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BA30	Di-n-octyl phthalate	84	CCCSD	EPA 625	ug/L	< 0.38		< 0.38		< 0.5		< 0.38	
BA30	Di-n-octyl phthalate	84	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BA30	Diphenylhydrazine, 1,2-	85	CCCSD	EPA 625	ug/L	< 0.17		< 0.17		< 0.3		< 0.17	
BA30	Diphenylhydrazine, 1,2-	85	CCCSD	EPA 625MOD	ug/L	0.0053		< 0.002		< 0.002		< 0.0004	
BA30	Diphenylhydrazine, 1,2-	85	PAI	EPA 1625MOD	ug/L	< 0.002		< 0.002		< 0.002			
BA30	Fluoranthene	86	CCCSD	EPA 625	ug/L	< 0.24		< 0.24		< 0.4		< 0.24	
BA30	Fluoranthene	86	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BA30	Fluorene	87	CCCSD	EPA 625	ug/L	< 0.31		< 0.31		< 0.3		< 0.31	
BA30	Fluorene	87	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BA30	Hexachlorobenzene	88	CCCSD	EPA 625	ug/L	< 0.17		< 0.17		< 0.3		< 0.17	
BA30	Hexachlorobenzene	88	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BA30	Hexachlorobutadiene	89	CCCSD	EPA 625	ug/L	< 0.34		< 0.34		< 0.3		< 0.34	
BA30	Hexachlorobutadiene	89	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BA30	Hexachlorocyclopentadiene	90	CCCSD	EPA 625	ug/L	< 0.31		< 0.31		< 0.8		< 0.31	
BA30	Hexachlorocyclopentadiene	90	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BA30	Hexachloroethane	91	CCCSD	EPA 625	ug/L	< 0.4		< 0.4		< 0.2		< 0.4	
BA30	Hexachloroethane	91	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BA30	Indeno(1,2,3-c,d)pyrene	92	CCCSD	EPA 625	ug/L	< 0.28		< 0.28		< 0.3		< 0.28	
BA30	Indeno(1,2,3-c,d)pyrene	92	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BA30	Isophorone	93	CCCSD	EPA 625	ug/L	< 0.38		< 0.38		< 0.3		< 0.38	
BA30	Isophorone	93	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BA30	Naphthalene	94	CCCSD	EPA 625	ug/L	< 0.35		< 0.35		< 0.3		< 0.35	
BA30	Naphthalene	94	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BA30	Nitrobenzene	95	CCCSD	EPA 625	ug/L	< 0.25		< 0.25		< 0.3		< 0.25	
BA30	Nitrobenzene	95	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BA30	Nitrosodimethylamine, N-	96	CCCSD	EPA 625	ug/L	< 0.33		< 0.33		< 0.3		< 0.33	
BA30	Nitrosodimethylamine, N-	96	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BA30	Nitrosodi-n-propylamine, N-	97	CCCSD	EPA 625	ug/L	< 0.4		< 0.4		< 0.3		< 0.4	
BA30	Nitrosodi-n-propylamine, N-	97	CCCSD	EPA 625MOD	ug/L	< 0.001		< 0.001				< 0.0002	
BA30	Nitrosodi-n-propylamine, N-	97	PAI	EPA 1625MOD	ug/L	< 0.005		< 0.005		< 0.005			
BA30	Nitrosodiphenylamine, N-	98	CCCSD	EPA 625	ug/L	< 0.19		< 0.19		< 0.3		< 0.19	
BA30	Nitrosodiphenylamine, N-	98	CCCSD	EPA 625MOD	ug/L					< 0.001			
BA30	Nitrosodiphenylamine, N-	98	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BA30	Phenanthrene	99	CCCSD	EPA 625	ug/L	< 0.18		< 0.18		< 0.4		< 0.18	
BA30	Phenanthrene	99	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BA30	Pyrene	100	CCCSD	EPA 625	ug/L	< 0.24		< 0.24		< 0.4		< 0.24	
BA30	Pyrene	100	PAI	EPA 1625	ug/L	< 10		< 10		< 10			

SITE CODE	ANALYTE NAME	CTR #	LAB	METHOD	UNITS	2002-01	QA Code 2002-01	2002-07	QA Code 2002-07	2003-01	QA Code 2003-01	2003-08	QA Code 2003-08
BA30	Trichlorobenzene, 1,2,4-	101	CCCSD	EPA 625	ug/L	< 0.32		< 0.32		< 0.3		< 0.32	
BA30	Trichlorobenzene, 1,2,4-	101	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BA30	HpCDD, 1,2,3,4,6,7,8-	(16)	AXYS	EPA 1613B	pg/L	2.83		0.826	Q	0.825	Q	0.281	Q
BA30	HpCDF, 1,2,3,4,6,7,8-	(16)	AXYS	EPA 1613B	pg/L	0.639		0.208		0.203	Q	0.0764	Q
BA30	HpCDF, 1,2,3,4,7,8,9-	(16)	AXYS	EPA 1613B	pg/L	0.048	E	0.0152	E	-	R	-	R
BA30	HxCDD, 1,2,3,4,7,8-	(16)	AXYS	EPA 1613B	pg/L	0.053		0.0141	Q	0.0189	Q	0.00758	
BA30	HxCDD, 1,2,3,6,7,8-	(16)	AXYS	EPA 1613B	pg/L	0.19		0.0569	Q	0.0643	Q	0.0245	E
BA30	HxCDD, 1,2,3,7,8,9-	(16)	AXYS	EPA 1613B	pg/L	0.158		0.0526	Q	0.0566	Q	0.0224	
BA30	HxCDF, 1,2,3,4,7,8-	(16)	AXYS	EPA 1613B	pg/L	0.071		0.0226	Q	0.0279	E	0.0114	E
BA30	HxCDF, 1,2,3,6,7,8-	(16)	AXYS	EPA 1613B	pg/L	0.059		0.0174	E	0.0215	Q	0.00945	
BA30	HxCDF, 1,2,3,7,8,9-	(16)	AXYS	EPA 1613B	pg/L	0.012		< 0.0056		-	R	< 0.005	
BA30	HxCDF, 2,3,4,6,7,8-	(16)	AXYS	EPA 1613B	pg/L	0.068		0.0194	Q	0.0206	Q	0.00978	
BA30	OCDD, 1,2,3,4,6,7,8,9-	(16)	AXYS	EPA 1613B	pg/L	17.1		5.19	Q	4.88	Q	2.11	Q
BA30	OCDF, 1,2,3,4,6,7,8,9-	(16)	AXYS	EPA 1613B	pg/L	1.19		0.319	Q	0.286	Q	0.106	Q
BA30	PeCDD, 1,2,3,7,8-	(16)	AXYS	EPA 1613B	pg/L	0.051		0.0151	E	0.0192		0.00775	E
BA30	PeCDF, 1,2,3,7,8-	(16)	AXYS	EPA 1613B	pg/L	0.069		0.02	Q	0.0214	E	0.00862	
BA30	PeCDF, 2,3,4,7,8-	(16)	AXYS	EPA 1613B	pg/L	0.12		0.0413	Q	0.0406	Q	0.0207	
BA30	TCDF, 2,3,7,8-	(16)	AXYS	EPA 1613B	pg/L	0.23		0.0823		0.0845		0.0555	
BA30	Sum of Dioxin-Furan TEQs (WHO 2005;ND=0 SFEI)	(16)	AXYS	EPA 1613B	pg/L	0.236827		0.0667647		0.0732818		0.0375384	
BA30	Sum of Dioxin-Furan TEQs (WHO 1998;ND=0 SFEI)	(16)	AXYS	EPA 1613B	pg/L	0.258549		0.0743229		0.0807966		0.0414076	
BA30	HpCDD, 1,2,3,4,6,7,8-	(16)	FAL	EPA 1613	pg/L			1.11	E			1.53	E
BA30	HpCDF, 1,2,3,4,6,7,8-	(16)	FAL	EPA 1613	pg/L			< 0.472				< 0.373	
BA30	HpCDF, 1,2,3,4,7,8,9-	(16)	FAL	EPA 1613	pg/L			< 0.468				< 0.468	
BA30	HxCDD, 1,2,3,4,7,8-	(16)	FAL	EPA 1613	pg/L			< 0.758				< 0.725	
BA30	HxCDD, 1,2,3,6,7,8-	(16)	FAL	EPA 1613	pg/L			< 0.815				< 0.835	
BA30	HxCDD, 1,2,3,7,8,9-	(16)	FAL	EPA 1613	pg/L			< 0.798				< 0.742	
BA30	HxCDF, 1,2,3,4,7,8-	(16)	FAL	EPA 1613	pg/L			< 0.365				< 0.204	
BA30	HxCDF, 1,2,3,6,7,8-	(16)	FAL	EPA 1613	pg/L			< 0.370				< 0.246	
BA30	HxCDF, 1,2,3,7,8,9-	(16)	FAL	EPA 1613	pg/L			< 0.450				< 0.191	
BA30	HxCDF, 2,3,4,6,7,8-	(16)	FAL	EPA 1613	pg/L			< 0.435				< 0.23	
BA30	OCDD, 1,2,3,4,6,7,8,9-	(16)	FAL	EPA 1613	pg/L			6.22	E			8.1	E
BA30	OCDF, 1,2,3,4,6,7,8,9-	(16)	FAL	EPA 1613	pg/L			0.972	E			< 1.07	
BA30	PeCDD, 1,2,3,7,8-	(16)	FAL	EPA 1613	pg/L			< 0.475				< 0.574	
BA30	PeCDF, 1,2,3,7,8-	(16)	FAL	EPA 1613	pg/L			< 0.380				< 0.523	
BA30	PeCDF, 2,3,4,7,8-	(16)	FAL	EPA 1613	pg/L			< 0.365				< 0.496	
BA30	TCDF, 2,3,7,8-	(16)	FAL	EPA 1613	pg/L			< 0.255				< 0.222	
BA30	Sum of Dioxin-Furan TEQs (WHO 2005;ND=0 SFEI)	(16)	FAL	EPA 1613	pg/L			0.0132576				0.01773	
BA30	Sum of Dioxin-Furan TEQs (WHO 1998;ND=0 SFEI)	(16)	FAL	EPA 1613	pg/L			0.0118192				0.01611	
BA30	Dibutyltin as Sn	A1	TOXSCAN	EPA GC/FPD	ug/L					< 0.002			
BA30	Monobutyltin as Sn	A1	TOXSCAN	EPA GC/FPD	ug/L					< 0.002			
BA30	Tributyltin as Sn	A1	TOXSCAN	EPA GC/FPD	ug/L	< 0.001		< 0.002		< 0.002		0.00284	
BA30	Acetic acid ethenyl ester	extra	CCCSD	EPA 624	ug/L	< 1.6		< 0.5		< 0.5		< 1	
BA30	Acetone	extra	CCCSD	EPA 624	ug/L	< 1.3		1.5		< 0.5		< 3.5	
BA30	Butanone, 2-	extra	CCCSD	EPA 624	ug/L	< 2		4.6		-	R	< 1.6	
BA30	Carbon Disulfide	extra	CCCSD	EPA 624	ug/L	< 0.5		< 0.5		< 1.4		< 1	
BA30	Dichloro-2-butene, cis 1,4-	extra	CCCSD	EPA 624	ug/L	< 2		< 0.5					
BA30	Dichlorodifluoromethane	extra	CCCSD	EPA 624	ug/L	< 1.6		< 0.8		< 0.8		< 1	
BA30	Dichloroethylene, cis 1,2-	extra	CCCSD	EPA 624	ug/L							< 1	
BA30	Dichloropropene, trans 1,3-	extra	CCCSD	EPA 624	ug/L	< 1.1		< 0.5		< 0.5		< 1	
BA30	Dichloro-trans-2-butene, 1,4-	extra	CCCSD	EPA 624	ug/L	< 2.5		< 0.5					
BA30	Hexanone, 2-	extra	CCCSD	EPA 624	ug/L	< 1.8		< 0.5		< 0.5		< 1	
BA30	Methyl Tert-butyl Ether	extra	CCCSD	EPA 624	ug/L	< 1		< 0.5		< 0.5		< 1	
BA30	Methyl-2-pentanone, 4-	extra	CCCSD	EPA 624	ug/L	< 1.5		< 0.5		< 0.5		< 1	
BA30	Pentachloroethane	extra	CCCSD	EPA 624	ug/L	< 0.8		< 0.5		< 0.5		< 2	
BA30	Styrene	extra	CCCSD	EPA 624	ug/L	< 0.5		< 0.5		< 0.5		< 1	
BA30	Trichlorofluoromethane	extra	CCCSD	EPA 624	ug/L	< 1		< 0.5		< 1		< 1	
BA30	Xylene, m/p-	extra	CCCSD	EPA 624	ug/L	< 0.6		< 0.8		< 0.8		< 1	
BA30	Xylene, o-	extra	CCCSD	EPA 624	ug/L	< 0.4		< 0.5		< 0.5		< 1	
BA30	Aniline	extra	CCCSD	EPA 625	ug/L	< 0.81		< 0.81		< 1.5		< 0.81	
BA30	Benzoic Acid	extra	CCCSD	EPA 625	ug/L	< 2.35		< 2.35		< 1.4		< 2.35	
BA30	Benzyl Alcohol	extra	CCCSD	EPA 625	ug/L	< 0.95		< 0.95		< 1		< 0.95	
BA30	Bis(2-chloro-1-methylethyl) ether	extra	CCCSD	EPA 625	ug/L	< 0.37		< 0.37		< 0.3		< 0.37	
BA30	Chloroaniline, 4-	extra	CCCSD	EPA 625	ug/L	< 0.63		< 0.63		< 0.8		< 0.63	
BA30	Dibenzofuran	extra	CCCSD	EPA 625	ug/L	< 0.73		< 0.73		< 0.8		< 0.73	
BA30	Methylnaphthalene, 2-	extra	CCCSD	EPA 625	ug/L	< 0.88		< 0.88		< 0.7		< 0.88	
BA30	Methylphenol, 2-	extra	CCCSD	EPA 625	ug/L	< 1.9		< 1.9		< 1.2		< 1.9	
BA30	Methylphenol, 3/4-	extra	CCCSD	EPA 625	ug/L	< 1.83		< 1.83		< 1.3		< 1.83	
BA30	Nitroaniline, 2-	extra	CCCSD	EPA 625	ug/L	< 0.69		< 0.69		< 0.8		< 0.69	
BA30	Nitroaniline, 3-	extra	CCCSD	EPA 625	ug/L	< 0.6		< 0.6		< 0.9		< 0.6	
BA30	Nitroaniline, 4-	extra	CCCSD	EPA 625	ug/L	< 0.85		< 0.85		< 1		< 0.85	
BA30	Pyridine	extra	CCCSD	EPA 625	ug/L	< 1.33		< 1.33		< 2.7		< 1.33	
BA30	Trichlorophenol, 2,4,5-	extra	CCCSD	EPA 625	ug/L	< 1.72		< 1.72		< 1.2		< 1.72	
BA30	Hardness as CaCO3	anc	CCCSD	UNKNOWN	mg/L	4260		5560		3810		4920	
BA30	Total Solids	anc	CCCSD	UNKNOWN	%	2.6		3.34		2.4		4.1	
BA30	Tributyltin as Sn	A1	EBMUD	EBMUD	ug/L					< 0.0046			
BA30	Tributyltin as Sn	A1	EBMUD	EBMUD-BUTYLTINS	ug/L							< 0.0046	
BA30	Tributyltin as Sn	A1	EBMUD	GC/MS	ug/L	< 0.0046		< 0.0046					
BA30	Dichloropropene, trans 1,3-	extra	PAI	EPA 1624	ug/L	< 2		< 2		< 2			
BA30	Biphenyl	extra	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BA30	Bis(2-chloro-1-methylethyl) ether	extra	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BA30	Carbazole	extra	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BA30	Decane, n-	extra	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BA30	Dibenzofuran	extra	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BA30	Dibenzothiophene	extra	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BA30	Diphenyl ether	extra	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BA30	Diphenylamine	extra	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BA30	Docosane, n-	extra	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BA30	Dodecane, n-	extra	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BA30	Eicosane, n-	extra	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BA30	Hexacosane, n-	extra	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BA30	Hexadecane, n-	extra	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BA30	Isopropyltoluene, p-	extra	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BA30	Methylpyridine, 2-	extra	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BA30	Naphthalenamine, 2-	extra	PAI	EPA 1625	ug/L	< 10		< 10		< 10			

SITE CODE	ANALYTE NAME	CTR #	LAB	METHOD	UNITS	2002-01	QA Code 2002-01	2002-07	QA Code 2002-07	2003-01	QA Code 2003-01	2003-08	QA Code 2003-08
BA30	Octacosane, n-	extra	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BA30	Octadecane, n-	extra	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BA30	Styrene	extra	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BA30	Terpineol, alpha-	extra	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BA30	Tetracosane, n-	extra	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BA30	Tetradecane, n-	extra	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BA30	Triacontane, n-	extra	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BA30	Trichlorobenzene, 1,2,3-	extra	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BA30	Trichlorophenol, 2,3,6-	extra	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BA30	Trichlorophenol, 2,4,5-	extra	PAI	EPA 1625	ug/L	< 10		< 10		< 10			

SITE CODE	PARAMETER	CTR #	LAB	METHOD	UNITS	2002-01	QA Code 2002-01	2002-07	QA Code 2002-07	2003-01	QA Code 2003-01	2003-08	QA Code 2003-08
BC10	Antimony	1	CALTEST	EPA 200.8	ug/L	< 0.01		1.8	E	1.3	E	< 0.03	
BC10	Antimony	1	UCSCDET	ICP-MS	ug/L	0.303229		0.529668		0.3087575		0.000655656	
BC10	Beryllium	3	CALTEST	EPA 200.8	ug/L	< 0.06		< 0.06		< 0.06		< 0.2	
BC10	Beryllium	3	UCSCDET	ICP-MS	ug/L	< 0.009769211		< 0.009769211		< 0.009769211		< 0.0000070516	
BC10	Thallium	12	CALTEST	EPA 200.8	ug/L	< 0.03		< 0.03		< 0.03		< 0.06	
BC10	Thallium	12	UCSCDET	ICP-MS	ug/L	0.009741667		0.023295667		0.014350167		0.000023486	
BC10	Cyanide	14	CCCSD	UNKNOWN	ug/L	< 0.4		< 0.4		< 0.4		< 0.4	
BC10	TCDD, 2,3,7,8-	16	AXYS	EPA 1613B	pg/L	0.006	E	-	R	< 0.0009		0.0082	E
BC10	TCDD, 2,3,7,8-	16	FAL	EPA 1613	pg/L			< 0.355		< 0.268		< 0.268	
BC10	Acrolein	17	CCCSD	EPA 624	ug/L	< 2.8		< 1.5		< 0.5		< 3	
BC10	Acrylonitrile	18	CCCSD	EPA 624	ug/L	< 1.1		< 1.4		< 0.5		< 1	
BC10	Acrylonitrile	18	CCCSD	EPA 624MOD	ug/L	0.03		< 0.03		< 0.02		< 0.02	
BC10	Acrylonitrile	18	PAI	EPA 1624	ug/L					< 20			
BC10	Acrylonitrile	18	PAI	EPA 1624MOD	ug/L	< 20		< 20		< 0.05			
BC10	Benzene	19	CCCSD	EPA 624	ug/L	< 0.3		< 0.5		< 0.5		< 1	
BC10	Benzene	19	PAI	EPA 1624MOD	ug/L	< 0.05		< 0.05		< 0.05			
BC10	Bromoform	20	CCCSD	EPA 624	ug/L	< 1.2		< 0.5		< 0.5		< 1	
BC10	Bromoform	20	PAI	EPA 1624	ug/L	< 2		< 2		< 2			
BC10	Carbon tetrachloride	21	CCCSD	EPA 624	ug/L	< 0.8		< 0.5		< 0.5		< 1	
BC10	Carbon tetrachloride	21	CCCSD	EPA 624MOD	ug/L	0.06		< 0.03		< 0.02		< 0.02	
BC10	Carbon tetrachloride	21	PAI	EPA 1624	ug/L					< 2			
BC10	Carbon tetrachloride	21	PAI	EPA 1624MOD	ug/L	< 0.05		< 2		< 0.05			
BC10	Chlorobenzene	22	CCCSD	EPA 624	ug/L	< 0.9		< 0.5		< 0.5		< 1	
BC10	Chlorobenzene	22	PAI	EPA 1624	ug/L	< 2		< 2		< 2			
BC10	Chlorodibromomethane	23	CCCSD	EPA 624	ug/L	< 0.9		< 0.5		< 0.5		< 1	
BC10	Chlorodibromomethane	23	PAI	EPA 1624MOD	ug/L	< 0.05		< 0.05		< 0.05			
BC10	Chloroethane	24	CCCSD	EPA 624	ug/L	< 1.1		< 0.9		< 0.5		< 5.2	
BC10	Chloroethane	24	PAI	EPA 1624	ug/L	< 2		< 2		< 2			
BC10	Chloroethyl vinyl ether, 2-	25	CCCSD	EPA 624	ug/L	< 0.8		< 0.5		< 0.5		< 0.5	
BC10	Chloroethyl vinyl ether, 2-	25	PAI	EPA 1624	ug/L	< 2		< 2		< 2			
BC10	Chloroform	26	CCCSD	EPA 624	ug/L	< 0.8		< 0.5		< 0.5		< 1	
BC10	Chloroform	26	PAI	EPA 1624	ug/L	< 2		< 2		< 2			
BC10	Bromodichloromethane	27	CCCSD	EPA 624	ug/L	< 0.9		< 0.5		< 0.5		< 1	
BC10	Bromodichloromethane	27	PAI	EPA 1624MOD	ug/L	< 0.05		< 0.05		< 0.05			
BC10	Dichloroethane, 1,1-	28	CCCSD	EPA 624	ug/L	< 0.5		< 0.5		< 0.8		< 1	
BC10	Dichloroethane, 1,1-	28	PAI	EPA 1624	ug/L					< 2			
BC10	Dichloroethane, 1,1-	28	PAI	EPA 1624MOD	ug/L	< 0.05		< 2		< 0.05			
BC10	Dichloroethane, 1,2-	29	CCCSD	EPA 624	ug/L	< 0.4		< 0.5		< 0.5		< 1	
BC10	Dichloroethane, 1,2-	29	CCCSD	EPA 624MOD	ug/L	0.04		< 0.03		< 0.02		< 0.02	
BC10	Dichloroethane, 1,2-	29	PAI	EPA 1624MOD	ug/L	< 0.05		< 0.05		< 0.05			
BC10	Dichloroethylene, 1,1-	30	CCCSD	EPA 624	ug/L	< 1		< 0.5		< 0.5		< 1	
BC10	Dichloropropane, 1,2-	31	CCCSD	EPA 624	ug/L	< 0.6		< 0.5		< 0.5		< 1	
BC10	Dichloropropane, 1,2-	31	PAI	EPA 1624MOD	ug/L	< 0.05		< 0.05		< 0.05			
BC10	Dichloropropene, cis 1,3-	32	CCCSD	EPA 624	ug/L	< 0.7		< 0.5		< 0.5		< 1	
BC10	Dichloropropene, cis 1,3-	32	PAI	EPA 1624	ug/L	< 2		< 2		< 2			
BC10	Ethylbenzene	33	CCCSD	EPA 624	ug/L	< 0.5		< 0.5		< 0.5		< 1	
BC10	Ethylbenzene	33	PAI	EPA 1624	ug/L	< 2		< 2		< 2			
BC10	Bromomethane	34	CCCSD	EPA 624	ug/L	< 1.2		< 1.1		< 0.5		< 3	
BC10	Bromomethane	34	PAI	EPA 1624	ug/L	< 2		< 2		< 2			
BC10	Chloromethane	35	CCCSD	EPA 624	ug/L	< 1		< 0.5		< 0.5		< 1	
BC10	Chloromethane	35	PAI	EPA 1624	ug/L	< 2		< 2		< 2			
BC10	Methylene Chloride	36	CCCSD	EPA 624	ug/L	< 1		0.5		< 0.5		22	
BC10	Tetrachloroethane, 1,1,2,2-	37	CCCSD	EPA 624	ug/L	< 1.1		< 0.5		< 0.5		< 2	
BC10	Tetrachloroethane, 1,1,2,2-	37	PAI	EPA 1624MOD	ug/L	< 0.05		< 0.05		< 0.05			
BC10	Tetrachloroethylene	38	CCCSD	EPA 624	ug/L	< 1.3		< 0.5		< 0.5		< 2	
BC10	Tetrachloroethylene	38	PAI	EPA 1624MOD	ug/L	< 0.05		< 0.05		< 0.05			
BC10	Toluene	39	CCCSD	EPA 624	ug/L	< 0.3		< 0.5		< 0.5		< 1	
BC10	Toluene	39	PAI	EPA 1624	ug/L	< 2		< 2		< 2			
BC10	Dichloroethylene, trans 1,2-	40	CCCSD	EPA 624	ug/L	< 1		< 0.5		< 1.5		< 1	
BC10	Trichloroethane, 1,1,1-	41	CCCSD	EPA 624	ug/L	< 0.7		< 0.5		< 0.5		< 1	
BC10	Trichloroethane, 1,1,1-	41	PAI	EPA 1624	ug/L	< 2		< 2		< 2			
BC10	Trichloroethane, 1,1,2-	42	CCCSD	EPA 624	ug/L	< 0.7		< 0.5		< 0.5		< 2	
BC10	Trichloroethane, 1,1,2-	42	PAI	EPA 1624MOD	ug/L	< 0.05		< 0.05		< 0.05			
BC10	Trichloroethylene	43	CCCSD	EPA 624	ug/L	< 0.8		< 0.5		< 0.5		< 1	
BC10	Trichloroethylene	43	PAI	EPA 1624	ug/L	< 2		< 2		< 2			
BC10	Vinyl Chloride	44	CCCSD	EPA 624	ug/L	< 1		< 0.5		< 0.9		< 1	
BC10	Vinyl Chloride	44	PAI	EPA 1624	ug/L	< 2		< 2		< 2			
BC10	Chlorophenol, 2-	45	CCCSD	EPA 625	ug/L	< 1.71		< 1.71		< 1.2		< 1.7	
BC10	Chlorophenol, 2-	45	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BC10	Dichlorophenol, 2,4-	46	CCCSD	EPA 625	ug/L	< 1.54		< 1.54		< 1.3		< 1.5	
BC10	Dichlorophenol, 2,4-	46	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BC10	Dimethylphenol, 2,4-	47	CCCSD	EPA 625	ug/L	< 3.57		< 3.57		< 1.3		< 3.6	
BC10	Dimethylphenol, 2,4-	47	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BC10	Dinitro-2-methylphenol, 4,6-	48	CCCSD	EPA 625	ug/L	< 1.34		< 1.34		< 1.2		< 1.3	
BC10	Dinitro-2-methylphenol, 4,6-	48	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BC10	Dinitrophenol, 2,4-	49	CCCSD	EPA 625	ug/L	< 1.44		< 1.44		< 0.7		< 1.4	
BC10	Dinitrophenol, 2,4-	49	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BC10	Nitrophenol, 2-	50	CCCSD	EPA 625	ug/L	< 1.47		< 1.47		< 1.3		< 1.5	
BC10	Nitrophenol, 2-	50	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BC10	Nitrophenol, 4-	51	CCCSD	EPA 625	ug/L	< 1.81		< 1.81		< 1.6		< 1.8	
BC10	Nitrophenol, 4-	51	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BC10	Chloro-3-methylphenol, 4-	52	CCCSD	EPA 625	ug/L	< 1.53		< 1.53		< 1.1		< 1.5	
BC10	Chloro-3-methylphenol, 4-	52	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BC10	Pentachlorophenol	53	CCCSD	EPA 625	ug/L	< 1.28		< 1.28		< 1		< 1.3	
BC10	Pentachlorophenol	53	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BC10	Phenol	54	CCCSD	EPA 625	ug/L	< 1.68		< 1.68		< 1.3		< 1.7	
BC10	Phenol	54	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BC10	Trichlorophenol, 2,4,6-	55	CCCSD	EPA 625	ug/L	< 1.34		< 1.34		< 1.3		< 1.3	
BC10	Trichlorophenol, 2,4,6-	55	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BC10	Acenaphthene	56	CCCSD	EPA 625	ug/L	< 0.33		< 0.33		< 0.3		< 0.33	
BC10	Acenaphthene	56	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BC10	Acenaphthylene	57	CCCSD	EPA 625	ug/L	< 0.36		< 0.36		< 0.3		< 0.36	
BC10	Acenaphthylene	57	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BC10	Anthracene	58	CCCSD	EPA 625	ug/L	< 0.21		< 0.21		< 0.4		< 0.21	

SITE CODE	PARAMETER	CTR #	LAB	METHOD	UNITS	2002-01	QA Code 2002-01	2002-07	QA Code 2002-07	2003-01	QA Code 2003-01	2003-08	QA Code 2003-08
BC10	Anthracene	58	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BC10	Benzidine	59	CCCSD	EPA 625	ug/L	< 12.45		< 12.45		< 24.7		< 12.5	
BC10	Benzidine	59	CCCSD	EPA 625MOD	ug/L	< 0.0015		< 0.0015		< 0.002		< 0.0003	
BC10	Benzidine	59	PAI	EPA 1625MOD	ug/L	< 0.01		< 0.01		< 0.01			
BC10	Benz(a)anthracene	60	CCCSD	EPA 625	ug/L	< 0.21		< 0.21		< 0.4		< 0.21	
BC10	Benz(a)anthracene	60	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BC10	Benzo(a)pyrene	61	CCCSD	EPA 625	ug/L	< 0.22		< 0.22		< 0.3		< 0.22	
BC10	Benzo(a)pyrene	61	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BC10	Benzo(b)fluoranthene	62	CCCSD	EPA 625	ug/L	< 0.17		< 0.17		< 0.4		< 0.17	
BC10	Benzo(b)fluoranthene	62	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BC10	Benzo(g,h,i)perylene	63	CCCSD	EPA 625	ug/L	< 0.25		< 0.25		< 0.3		< 0.25	
BC10	Benzo(g,h,i)perylene	63	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BC10	Benzo(k)fluoranthene	64	CCCSD	EPA 625	ug/L	< 0.13		< 0.13		< 0.3		< 0.13	
BC10	Benzo(k)fluoranthene	64	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BC10	Bis(2-chloroethoxy)methane	65	CCCSD	EPA 625	ug/L	< 0.39		< 0.39		< 0.3		< 0.39	
BC10	Bis(2-chloroethoxy)methane	65	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BC10	Bis(2-chloroethyl)ether	66	CCCSD	EPA 625	ug/L	< 0.32		< 0.32		< 0.3		< 0.32	
BC10	Bis(2-chloroethyl)ether	66	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BC10	Bis(2-ethylhexyl)phthalate	68	AXYS	PH/01Rev.3	ug/L							-	R
BC10	Bis(2-ethylhexyl)phthalate	68	CCCSD	EPA 625	ug/L	< 0.67		< 0.67		< 0.5		< 0.7	
BC10	Bis(2-ethylhexyl)phthalate	68	PAI	EPA 1625	ug/L	26.8		15.2		< 10			
BC10	Bromophenyl phenyl ether, 4-	69	CCCSD	EPA 625	ug/L	< 0.23		< 0.23		< 0.3		< 0.23	
BC10	Bromophenyl phenyl ether, 4-	69	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BC10	Butyl benzyl phthalate	70	AXYS	PH/01Rev.3	ug/L							-	R
BC10	Butyl benzyl phthalate	70	CCCSD	EPA 625	ug/L	< 0.52		< 0.52		< 0.7		< 0.5	
BC10	Butyl benzyl phthalate	70	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BC10	Chloronaphthalene, 2-	71	CCCSD	EPA 625	ug/L	< 0.32		< 0.32		< 0.3		< 0.3	
BC10	Chloronaphthalene, 2-	71	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BC10	Chlorophenyl phenyl ether, 4-	72	CCCSD	EPA 625	ug/L	< 0.31		< 0.31		< 0.3		< 0.31	
BC10	Chlorophenyl phenyl ether, 4-	72	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BC10	Chrysene	73	CCCSD	EPA 625	ug/L	< 0.19		< 0.19		< 0.3		< 0.19	
BC10	Chrysene	73	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BC10	Dibenz(a,h)anthracene	74	CCCSD	EPA 625	ug/L	< 0.23		< 0.23		< 0.3		< 0.23	
BC10	Dibenz(a,h)anthracene	74	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BC10	Dichlorobenzene, 1,2-	75	CCCSD	EPA 624	ug/L	< 1.3		< 0.5		< 0.5		< 1	
BC10	Dichlorobenzene, 1,2-	75	CCCSD	EPA 625	ug/L	< 0.33		< 0.33		< 0.3		< 0.3	
BC10	Dichlorobenzene, 1,2-	75	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BC10	Dichlorobenzene, 1,3-	76	CCCSD	EPA 624	ug/L	< 1.5		< 0.5		< 0.5		< 1	
BC10	Dichlorobenzene, 1,3-	76	CCCSD	EPA 625	ug/L	< 0.33		< 0.33		< 0.3		< 0.3	
BC10	Dichlorobenzene, 1,3-	76	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BC10	Dichlorobenzene, 1,4-	77	CCCSD	EPA 624	ug/L	< 1.3		< 0.5		< 0.5		< 1	
BC10	Dichlorobenzene, 1,4-	77	CCCSD	EPA 625	ug/L	< 0.33		< 0.33		< 0.3		< 0.3	
BC10	Dichlorobenzene, 1,4-	77	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BC10	Dichlorobenzidine, 3,3'-	78	CCCSD	EPA 625	ug/L	< 4.37		< 4.37		< 5.2		< 4.4	
BC10	Dichlorobenzidine, 3,3'-	78	CCCSD	EPA 625MOD	ug/L	< 0.001		< 0.001		< 0.001		< 0.0002	
BC10	Dichlorobenzidine, 3,3'-	78	PAI	EPA 1625MOD	ug/L	< 0.004		< 0.004		< 0.004			
BC10	Diethyl phthalate	79	CCCSD	EPA 625	ug/L	< 0.24		< 0.24		< 0.5		< 0.2	
BC10	Diethyl phthalate	79	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BC10	Dimethyl Phthalate	80	CCCSD	EPA 625	ug/L	< 0.24		< 0.24		< 0.3		< 0.2	
BC10	Dimethyl Phthalate	80	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BC10	Di-n-butyl phthalate	81	AXYS	PH/01Rev.3	ug/L							-	R
BC10	Di-n-butyl phthalate	81	CCCSD	EPA 625	ug/L	< 1.07		< 1.07		< 0.5		< 1.1	
BC10	Di-n-butyl phthalate	81	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BC10	Dinitrotoluene, 2,4-	82	CCCSD	EPA 625	ug/L	< 0.27		< 0.27		< 0.4		< 0.3	
BC10	Dinitrotoluene, 2,4-	82	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BC10	Dinitrotoluene, 2,6-	83	CCCSD	EPA 625	ug/L	< 0.29		< 0.29		< 0.3		< 0.3	
BC10	Dinitrotoluene, 2,6-	83	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BC10	Di-n-octyl phthalate	84	CCCSD	EPA 625	ug/L	< 0.38		< 0.38		< 0.5		< 0.4	
BC10	Di-n-octyl phthalate	84	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BC10	Diphenylhydrazine, 1,2-	85	CCCSD	EPA 625	ug/L	< 0.17		< 0.17		< 0.3		< 0.2	
BC10	Diphenylhydrazine, 1,2-	85	CCCSD	EPA 625MOD	ug/L	0.0037		< 0.002		< 0.002		< 0.0004	
BC10	Diphenylhydrazine, 1,2-	85	PAI	EPA 1625MOD	ug/L	< 0.002		< 0.002		< 0.002			
BC10	Fluoranthene	86	CCCSD	EPA 625	ug/L	< 0.24		< 0.24		< 0.4		< 0.24	
BC10	Fluoranthene	86	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BC10	Fluorene	87	CCCSD	EPA 625	ug/L	< 0.31		< 0.31		< 0.3		< 0.31	
BC10	Fluorene	87	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BC10	Hexachlorobenzene	88	CCCSD	EPA 625	ug/L	< 0.17		< 0.17		< 0.3		< 0.2	
BC10	Hexachlorobenzene	88	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BC10	Hexachlorobutadiene	89	CCCSD	EPA 625	ug/L	< 0.34		< 0.34		< 0.3		< 0.3	
BC10	Hexachlorobutadiene	89	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BC10	Hexachlorocyclopentadiene	90	CCCSD	EPA 625	ug/L	< 0.31		< 0.31		< 0.8		< 0.3	
BC10	Hexachlorocyclopentadiene	90	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BC10	Hexachloroethane	91	CCCSD	EPA 625	ug/L	< 0.4		< 0.4		< 0.2		< 0.4	
BC10	Hexachloroethane	91	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BC10	Indeno(1,2,3-c,d)pyrene	92	CCCSD	EPA 625	ug/L	< 0.28		< 0.28		< 0.3		< 0.28	
BC10	Indeno(1,2,3-c,d)pyrene	92	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BC10	Isophorone	93	CCCSD	EPA 625	ug/L	< 0.38		< 0.38		< 0.3		< 0.4	
BC10	Isophorone	93	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BC10	Naphthalene	94	CCCSD	EPA 625	ug/L	< 0.35		< 0.35		< 0.3		< 0.35	
BC10	Naphthalene	94	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BC10	Nitrobenzene	95	CCCSD	EPA 625	ug/L	< 0.25		< 0.25		< 0.3		< 0.3	
BC10	Nitrobenzene	95	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BC10	Nitrosodimethylamine, N-	96	CCCSD	EPA 625	ug/L	< 0.33		< 0.33		< 0.3		< 0.3	
BC10	Nitrosodimethylamine, N-	96	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BC10	Nitrosodi-n-propylamine, N-	97	CCCSD	EPA 625	ug/L	< 0.4		< 0.4		< 0.3		< 0.4	
BC10	Nitrosodi-n-propylamine, N-	97	CCCSD	EPA 625MOD	ug/L	< 0.001		< 0.001				< 0.0002	
BC10	Nitrosodi-n-propylamine, N-	97	PAI	EPA 1625MOD	ug/L	< 0.005		< 0.005		< 0.005			
BC10	Nitrosodiphenylamine, N-	98	CCCSD	EPA 625	ug/L	< 0.19		< 0.19		< 0.3		< 0.2	
BC10	Nitrosodiphenylamine, N-	98	CCCSD	EPA 625MOD	ug/L					< 0.001			
BC10	Nitrosodiphenylamine, N-	98	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BC10	Phenanthrene	99	CCCSD	EPA 625	ug/L	< 0.18		< 0.18		< 0.4		< 0.18	
BC10	Phenanthrene	99	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BC10	Pyrene	100	CCCSD	EPA 625	ug/L	< 0.24		< 0.24		< 0.4		< 0.24	
BC10	Pyrene	100	PAI	EPA 1625	ug/L	< 10		< 10		< 10			

SITE CODE	PARAMETER	CTR #	LAB	METHOD	UNITS	2002-01	QA Code 2002-01	2002-07	QA Code 2002-07	2003-01	QA Code 2003-01	2003-08	QA Code 2003-08
BC10	Trichlorobenzene, 1,2,4-	101	CCCSD	EPA 625	ug/L	< 0.32		< 0.32		< 0.3		< 0.3	
BC10	Trichlorobenzene, 1,2,4-	101	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BC10	HpCDD, 1,2,3,4,6,7,8-	(16)	AXYS	EPA 1613B	pg/L	0.58		0.878	Q	0.486	Q	0.5	Q
BC10	HpCDF, 1,2,3,4,6,7,8-	(16)	AXYS	EPA 1613B	pg/L	0.141		0.22		0.123	Q	0.139	E
BC10	HpCDF, 1,2,3,4,7,8,9-	(16)	AXYS	EPA 1613B	pg/L	0.01		0.0148	E	-	R	-	R
BC10	HxCDD, 1,2,3,4,7,8-	(16)	AXYS	EPA 1613B	pg/L	0.012		0.0177	E	-	R	0.0111	
BC10	HxCDD, 1,2,3,6,7,8-	(16)	AXYS	EPA 1613B	pg/L	0.047		0.0655	E	0.0349	Q	0.04	
BC10	HxCDD, 1,2,3,7,8,9-	(16)	AXYS	EPA 1613B	pg/L	0.034		0.0392	E	0.0303	Q	0.0345	
BC10	HxCDF, 1,2,3,4,7,8-	(16)	AXYS	EPA 1613B	pg/L	0.016		0.0205	Q	0.0153	Q	0.0169	
BC10	HxCDF, 1,2,3,6,7,8-	(16)	AXYS	EPA 1613B	pg/L	0.01		0.0197		-	R	0.0138	
BC10	HxCDF, 1,2,3,7,8,9-	(16)	AXYS	EPA 1613B	pg/L	0.003		-	R	-	R	< 0.005	
BC10	HxCDF, 2,3,4,6,7,8-	(16)	AXYS	EPA 1613B	pg/L	0.012		0.0168	Q	-	R	0.0126	
BC10	OCDD, 1,2,3,4,6,7,8,9-	(16)	AXYS	EPA 1613B	pg/L	3.46		5.72	Q	2.95	Q	2.85	Q
BC10	OCDF, 1,2,3,4,6,7,8,9-	(16)	AXYS	EPA 1613B	pg/L	0.272		0.448	Q	0.182	Q	0.205	Q
BC10	PeCDD, 1,2,3,7,8-	(16)	AXYS	EPA 1613B	pg/L	0.01		0.0166	Q	0.00766		0.0114	
BC10	PeCDF, 1,2,3,7,8-	(16)	AXYS	EPA 1613B	pg/L	0.012		0.019	E	-	R	0.0157	E
BC10	PeCDF, 2,3,4,7,8-	(16)	AXYS	EPA 1613B	pg/L	0.019		0.0355	Q	-	R	0.0225	
BC10	TCDF, 2,3,7,8-	(16)	AXYS	EPA 1613B	pg/L	0.036		0.0709		0.0396		0.0371	E
BC10	Sum of Dioxin-Furan TEQs (WHO 2005;ND=0 SFEI)	(16)	AXYS	EPA 1613B	pg/L	0.0474896		0.0658284		0.0266996		0.0507275	
BC10	Sum of Dioxin-Furan TEQs (WHO 1998;ND=0 SFEI)	(16)	AXYS	EPA 1613B	pg/L	0.0507832		0.0720748		0.0260732		0.0549305	
BC10	HpCDD, 1,2,3,4,6,7,8-	(16)	FAL	EPA 1613	pg/L			0.881	E	< 0.588		1.3	E
BC10	HpCDF, 1,2,3,4,6,7,8-	(16)	FAL	EPA 1613	pg/L			< 0.472		< 0.373		< 0.373	
BC10	HpCDF, 1,2,3,4,7,8,9-	(16)	FAL	EPA 1613	pg/L			< 0.468		< 0.468		< 0.468	
BC10	HxCDD, 1,2,3,4,7,8-	(16)	FAL	EPA 1613	pg/L			< 0.758		< 0.725		< 0.725	
BC10	HxCDD, 1,2,3,6,7,8-	(16)	FAL	EPA 1613	pg/L			< 0.815		< 0.835		< 0.835	
BC10	HxCDD, 1,2,3,7,8,9-	(16)	FAL	EPA 1613	pg/L			< 0.798		< 0.742		< 0.742	
BC10	HxCDF, 1,2,3,4,7,8-	(16)	FAL	EPA 1613	pg/L			< 0.365		< 0.204		< 0.204	
BC10	HxCDF, 1,2,3,6,7,8-	(16)	FAL	EPA 1613	pg/L			< 0.370		< 0.246		< 0.246	
BC10	HxCDF, 1,2,3,7,8,9-	(16)	FAL	EPA 1613	pg/L			< 0.450		< 0.191		< 0.191	
BC10	HxCDF, 2,3,4,6,7,8-	(16)	FAL	EPA 1613	pg/L			< 0.435		< 0.23		< 0.23	
BC10	OCDD, 1,2,3,4,6,7,8,9-	(16)	FAL	EPA 1613	pg/L			4.89	E	5.5	E	7.33	E
BC10	OCDF, 1,2,3,4,6,7,8,9-	(16)	FAL	EPA 1613	pg/L			< 1.030		< 1.07		< 1.07	
BC10	PeCDD, 1,2,3,7,8-	(16)	FAL	EPA 1613	pg/L			< 0.475		< 0.574		< 0.574	
BC10	PeCDF, 1,2,3,7,8-	(16)	FAL	EPA 1613	pg/L			< 0.380		< 0.523		< 0.523	
BC10	PeCDF, 2,3,4,7,8-	(16)	FAL	EPA 1613	pg/L			< 0.365		< 0.496		< 0.496	
BC10	TCDF, 2,3,7,8-	(16)	FAL	EPA 1613	pg/L			< 0.255		< 0.222		< 0.222	
BC10	Sum of Dioxin-Furan TEQs (WHO 2005;ND=0 SFEI)	(16)	FAL	EPA 1613	pg/L			0.010277		0.00165		0.015199	
BC10	Sum of Dioxin-Furan TEQs (WHO 1998;ND=0 SFEI)	(16)	FAL	EPA 1613	pg/L			0.009299		0.00055		0.013733	
BC10	Tributyltin as Sn	A1	EBMUD	EBMUD	ug/L					< 0.0046			
BC10	Tributyltin as Sn	A1	EBMUD	EBMUD-BUTYLTINS	ug/L							< 0.0046	
BC10	Tributyltin as Sn	A1	EBMUD	GC/MS	ug/L	< 0.0046		< 0.0046					
BC10	Dibutyltin as Sn	A1	TOXSCAN	EPA GC/FPD	ug/L					< 0.002			
BC10	Monobutyltin as Sn	A1	TOXSCAN	EPA GC/FPD	ug/L					< 0.002			
BC10	Tributyltin as Sn	A1	TOXSCAN	EPA GC/FPD	ug/L	< 0.001		< 0.002		< 0.002		0.00222	
BC10	Hardness as CaCO3	anc	CCCSD	UNKNOWN	mg/L	4580		5840		3950		5400	
BC10	Total Solids	anc	CCCSD	UNKNOWN	%	2.9		3.46		2.3		3.64	
BC10	Acetic acid ethenyl ester	extra	CCCSD	EPA 624	ug/L	< 1.6		< 0.5		< 0.5		< 1	
BC10	Acetone	extra	CCCSD	EPA 624	ug/L	< 1.3		1.8		< 0.5		680	Q
BC10	Butanone, 2-	extra	CCCSD	EPA 624	ug/L	< 2		3.7		-	R	< 1.6	
BC10	Carbon Disulfide	extra	CCCSD	EPA 624	ug/L	< 0.5		< 0.5		< 1.4		< 1	
BC10	Dichloro-2-butene, cis 1,4-	extra	CCCSD	EPA 624	ug/L	< 2		< 0.5					
BC10	Dichlorodifluoromethane	extra	CCCSD	EPA 624	ug/L	< 1.6		< 0.8		< 0.8		< 1	
BC10	Dichloroethylene, cis 1,2-	extra	CCCSD	EPA 624	ug/L							< 1	
BC10	Dichloropropene, trans 1,3-	extra	CCCSD	EPA 624	ug/L	< 1.1		< 0.5		< 0.5		< 1	
BC10	Dichloro-trans-2-butene, 1,4-	extra	CCCSD	EPA 624	ug/L	< 2.5		< 0.5					
BC10	Hexanone, 2-	extra	CCCSD	EPA 624	ug/L	< 1.8		< 0.5		< 0.5		< 1	
BC10	Methyl Tert-butyl Ether	extra	CCCSD	EPA 624	ug/L	< 1		< 0.5		< 0.5		< 1	
BC10	Methyl-2-pentanone, 4-	extra	CCCSD	EPA 624	ug/L	< 1.5		< 0.5		< 0.5		< 1	
BC10	Pentachloroethane	extra	CCCSD	EPA 624	ug/L	< 0.8		< 0.5		< 0.5		< 2	
BC10	Styrene	extra	CCCSD	EPA 624	ug/L	< 0.5		< 0.5		< 0.5		< 1	
BC10	Trichlorofluoromethane	extra	CCCSD	EPA 624	ug/L	< 1		< 0.5		< 1		< 1	
BC10	Xylene, m/p-	extra	CCCSD	EPA 624	ug/L	< 0.6		< 0.8		< 0.8		< 1	
BC10	Xylene, o-	extra	CCCSD	EPA 624	ug/L	< 0.4		< 0.5		< 0.5		< 1	
BC10	Aniline	extra	CCCSD	EPA 625	ug/L	< 0.81		< 0.81		< 1.5		< 0.8	
BC10	Benzoic Acid	extra	CCCSD	EPA 625	ug/L	< 2.35		< 2.35		< 1.4		< 2.4	
BC10	Benzyl Alcohol	extra	CCCSD	EPA 625	ug/L	< 0.95		< 0.95		< 1		< 1	
BC10	Bis(2-chloro-1-methylethyl) ether	extra	CCCSD	EPA 625	ug/L	< 0.37		< 0.37		< 0.3		< 0.37	
BC10	Chloroaniline, 4-	extra	CCCSD	EPA 625	ug/L	< 0.63		< 0.63		< 0.8		< 0.6	
BC10	Dibenzofuran	extra	CCCSD	EPA 625	ug/L	< 0.73		< 0.73		< 0.8		< 0.7	
BC10	Methylnaphthalene, 2-	extra	CCCSD	EPA 625	ug/L	< 0.88		< 0.88		< 0.7		< 0.9	
BC10	Methylphenol, 2-	extra	CCCSD	EPA 625	ug/L	< 1.9		< 1.9		< 1.2		< 1.9	
BC10	Methylphenol, 3/4-	extra	CCCSD	EPA 625	ug/L	< 1.83		< 1.83		< 1.3		< 1.8	
BC10	Nitroaniline, 2-	extra	CCCSD	EPA 625	ug/L	< 0.69		< 0.69		< 0.8		< 0.7	
BC10	Nitroaniline, 3-	extra	CCCSD	EPA 625	ug/L	< 0.6		< 0.6		< 0.9		< 0.6	
BC10	Nitroaniline, 4-	extra	CCCSD	EPA 625	ug/L	< 0.85		< 0.85		< 1		< 0.9	
BC10	Pyridine	extra	CCCSD	EPA 625	ug/L	< 1.33		< 1.33		< 2.7		< 1.3	
BC10	Trichlorophenol, 2,4,5-	extra	CCCSD	EPA 625	ug/L	< 1.72		< 1.72		< 1.2		< 1.7	
BC10	Dichloropropene, trans 1,3-	extra	PAI	EPA 1624	ug/L	< 2		< 2		< 2			
BC10	Biphenyl	extra	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BC10	Bis(2-chloro-1-methylethyl) ether	extra	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BC10	Carbazole	extra	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BC10	Decane, n-	extra	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BC10	Dibenzofuran	extra	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BC10	Dibenzothiophene	extra	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BC10	Diphenyl ether	extra	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BC10	Diphenylamine	extra	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BC10	Docosane, n-	extra	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BC10	Dodecane, n-	extra	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BC10	Eicosane, n-	extra	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BC10	Hexacosane, n-	extra	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BC10	Hexadecane, n-	extra	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BC10	Isopropyltoluene, p-	extra	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BC10	Methylpyridine, 2-	extra	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BC10	Naphthalenamine, 2-	extra	PAI	EPA 1625	ug/L	< 10		< 10		< 10			

SITE CODE	PARAMETER	CTR #	LAB	METHOD	UNITS	2002-01	QA Code 2002-01	2002-07	QA Code 2002-07	2003-01	QA Code 2003-01	2003-08	QA Code 2003-08
BC10	Octacosane, n-	extra	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BC10	Octadecane, n-	extra	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BC10	Styrene	extra	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BC10	Terpineol, alpha-	extra	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BC10	Tetracosane, n-	extra	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BC10	Tetradecane, n-	extra	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BC10	Triacontane, n-	extra	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BC10	Trichlorobenzene, 1,2,3-	extra	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BC10	Trichlorophenol, 2,3,6-	extra	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BC10	Trichlorophenol, 2,4,5-	extra	PAI	EPA 1625	ug/L	< 10		< 10		< 10			

SITE CODE	PARAMETER	CTR #	LAB	METHOD	UNITS	2002-01	QA Code 2002-01	2002-07	QA Code 2002-07	2003-01	QA Code 2003-01	2003-08	QA Code 2003-08
BG20	Antimony	1	CALTEST	EPA 200.8	ug/L	0.2	E	0.3	E	< 0.2		< 0.03	
BG20	Antimony	1	UCSCDET	ICP-MS	ug/L	0.08731		0.336576		0.098564		0.000091887	
BG20	Beryllium	3	CALTEST	EPA 200.8	ug/L	< 0.06		< 0.06		< 0.06		< 0.2	
BG20	Beryllium	3	UCSCDET	ICP-MS	ug/L	< 0.009769211		0.044713667		< 0.009769211		0.000022436	
BG20	Thallium	12	CALTEST	EPA 200.8	ug/L	< 0.03		< 0.03		< 0.03		< 0.06	
BG20	Thallium	12	UCSCDET	ICP-MS	ug/L	< 0.003588442		0.039438167		0.004400167		< 0.0000115622	
BG20	Cyanide	14	CCCSD	UNKNOWN	ug/L	< 0.4		< 0.4		0.5		< 0.4	
BG20	TCDD, 2,3,7,8-	16	AXYS	EPA 1613B	pg/L	0.006		-	R	-	R	< 0.005	
BG20	TCDD, 2,3,7,8-	16	FAL	EPA 1613	pg/L			< 0.355		< 0.268		< 0.268	
BG20	Acrolein	17	CCCSD	EPA 624	ug/L	< 2.8		< 1.5		< 0.5		< 3	
BG20	Acrylonitrile	18	CCCSD	EPA 624	ug/L	< 1.1		< 1.4		< 0.5		< 1	
BG20	Acrylonitrile	18	CCCSD	EPA 624MOD	ug/L	< 0.03		< 0.03		< 0.02		< 0.02	
BG20	Acrylonitrile	18	PAI	EPA 1624	ug/L					< 20			
BG20	Acrylonitrile	18	PAI	EPA 1624MOD	ug/L	< 0.05		< 0.05		< 0.05			
BG20	Benzene	19	CCCSD	EPA 624	ug/L	< 0.3		< 0.5		< 0.5		< 1	
BG20	Benzene	19	PAI	EPA 1624MOD	ug/L	< 0.05		< 0.05		< 0.05			
BG20	Bromoform	20	CCCSD	EPA 624	ug/L	< 1.2		< 0.5		< 0.5		< 1	
BG20	Bromoform	20	PAI	EPA 1624	ug/L	< 2		< 2		< 2			
BG20	Carbon tetrachloride	21	CCCSD	EPA 624	ug/L	< 0.8		< 0.5		< 0.5		< 1	
BG20	Carbon tetrachloride	21	CCCSD	EPA 624MOD	ug/L	0.06		< 0.03		< 0.02		< 0.02	
BG20	Carbon tetrachloride	21	PAI	EPA 1624	ug/L					< 2			
BG20	Carbon tetrachloride	21	PAI	EPA 1624MOD	ug/L	< 0.05		< 2		< 0.05			
BG20	Chlorobenzene	22	CCCSD	EPA 624	ug/L	< 0.9		< 0.5		< 0.5		< 1	
BG20	Chlorobenzene	22	PAI	EPA 1624	ug/L	< 2		< 2		< 2			
BG20	Chlorodibromomethane	23	CCCSD	EPA 624	ug/L	< 0.9		< 0.5		< 0.5		< 1	
BG20	Chlorodibromomethane	23	PAI	EPA 1624MOD	ug/L	< 0.05		< 0.05		< 0.05			
BG20	Chloroethane	24	CCCSD	EPA 624	ug/L	< 1.1		< 0.9		< 0.5		< 5.2	
BG20	Chloroethane	24	PAI	EPA 1624	ug/L	< 2		< 2		< 2			
BG20	Chloroethyl vinyl ether, 2-	25	CCCSD	EPA 624	ug/L	< 0.8		< 0.5		< 0.5		< 0.5	
BG20	Chloroethyl vinyl ether, 2-	25	PAI	EPA 1624	ug/L	< 2		< 2		< 2			
BG20	Chloroform	26	CCCSD	EPA 624	ug/L	< 0.8		< 0.5		< 0.5		< 1	
BG20	Chloroform	26	PAI	EPA 1624	ug/L	< 2		< 2		< 2			
BG20	Bromodichloromethane	27	CCCSD	EPA 624	ug/L	< 0.9		< 0.5		< 0.5		< 1	
BG20	Bromodichloromethane	27	PAI	EPA 1624MOD	ug/L	< 0.05		< 0.05		< 0.05			
BG20	Dichloroethane, 1,1-	28	CCCSD	EPA 624	ug/L	< 0.5		< 0.5		< 0.8		< 1	
BG20	Dichloroethane, 1,1-	28	PAI	EPA 1624	ug/L					< 2			
BG20	Dichloroethane, 1,1-	28	PAI	EPA 1624MOD	ug/L	< 0.05		< 0.05		< 0.05			
BG20	Dichloroethane, 1,2-	29	CCCSD	EPA 624	ug/L	< 0.4		< 0.5		< 0.5		< 1	
BG20	Dichloroethane, 1,2-	29	CCCSD	EPA 624MOD	ug/L	0.04		< 0.03		< 0.02		< 0.02	
BG20	Dichloroethane, 1,2-	29	PAI	EPA 1624MOD	ug/L	< 0.05		< 0.05		< 0.05			
BG20	Dichloroethylene, 1,1-	30	CCCSD	EPA 624	ug/L	< 1		< 0.5		< 0.5		< 1	
BG20	Dichloropropane, 1,2-	31	CCCSD	EPA 624	ug/L	< 0.6		< 0.5		< 0.5		< 1	
BG20	Dichloropropane, 1,2-	31	PAI	EPA 1624MOD	ug/L	< 0.05		< 0.05		< 0.05			
BG20	Dichloropropene, cis 1,3-	32	CCCSD	EPA 624	ug/L	< 0.7		< 0.5		< 0.5		< 1	
BG20	Dichloropropene, cis 1,3-	32	PAI	EPA 1624	ug/L	< 2		< 2		< 2			
BG20	Ethylbenzene	33	CCCSD	EPA 624	ug/L	< 0.5		< 0.5		< 0.5		< 1	
BG20	Ethylbenzene	33	PAI	EPA 1624	ug/L	< 2		< 2		< 2			
BG20	Bromomethane	34	CCCSD	EPA 624	ug/L	< 1.2		< 1.1		< 0.5		< 3	
BG20	Bromomethane	34	PAI	EPA 1624	ug/L	< 2		< 2		< 2			
BG20	Chloromethane	35	CCCSD	EPA 624	ug/L	< 1		< 0.5		< 0.5		< 1	
BG20	Chloromethane	35	PAI	EPA 1624	ug/L	< 2		< 2		< 2			
BG20	Methylene Chloride	36	CCCSD	EPA 624	ug/L	< 1		< 0.5		< 0.5		< 1	
BG20	Tetrachloroethane, 1,1,2,2-	37	CCCSD	EPA 624	ug/L	< 1.1		< 0.5		< 0.5		< 2	
BG20	Tetrachloroethane, 1,1,2,2-	37	PAI	EPA 1624MOD	ug/L	< 0.05		< 0.05		< 0.05			
BG20	Tetrachloroethylene	38	CCCSD	EPA 624	ug/L	< 1.3		< 0.5		< 0.5		< 2	
BG20	Tetrachloroethylene	38	PAI	EPA 1624MOD	ug/L	< 0.05		< 0.05		< 0.05			
BG20	Toluene	39	CCCSD	EPA 624	ug/L	< 0.3		< 0.5		< 0.5		< 1	
BG20	Toluene	39	PAI	EPA 1624	ug/L	< 2		< 2		< 2			
BG20	Dichloroethylene, trans 1,2-	40	CCCSD	EPA 624	ug/L	< 1		< 0.5		< 1.5		< 1	
BG20	Trichloroethane, 1,1,1-	41	CCCSD	EPA 624	ug/L	< 0.7		< 0.5		< 0.5		< 1	
BG20	Trichloroethane, 1,1,1-	41	PAI	EPA 1624	ug/L	< 2		< 2		< 2			
BG20	Trichloroethane, 1,1,2-	42	CCCSD	EPA 624	ug/L	< 0.7		< 0.5		< 0.5		< 2	
BG20	Trichloroethane, 1,1,2-	42	PAI	EPA 1624MOD	ug/L	< 0.05		< 0.05		< 0.05			
BG20	Trichloroethylene	43	CCCSD	EPA 624	ug/L	< 0.8		< 0.5		< 0.5		< 1	
BG20	Trichloroethylene	43	PAI	EPA 1624	ug/L	< 2		< 2		< 2			
BG20	Vinyl Chloride	44	CCCSD	EPA 624	ug/L	< 1		< 0.5		< 0.9		< 1	
BG20	Vinyl Chloride	44	PAI	EPA 1624	ug/L	< 2		< 2		< 2			
BG20	Chlorophenol, 2-	45	CCCSD	EPA 625	ug/L	< 1.71		< 1.71		< 1.2		< 1.7	
BG20	Chlorophenol, 2-	45	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BG20	Dichlorophenol, 2,4-	46	CCCSD	EPA 625	ug/L	< 1.54		< 1.54		< 1.3		< 1.5	
BG20	Dichlorophenol, 2,4-	46	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BG20	Dimethylphenol, 2,4-	47	CCCSD	EPA 625	ug/L	< 3.57		< 3.57		< 1.3		< 3.6	
BG20	Dimethylphenol, 2,4-	47	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BG20	Dinitro-2-methylphenol, 4,6-	48	CCCSD	EPA 625	ug/L	< 1.34		< 1.34		< 1.2		< 1.3	
BG20	Dinitro-2-methylphenol, 4,6-	48	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BG20	Dinitrophenol, 2,4-	49	CCCSD	EPA 625	ug/L	< 1.44		< 1.44		< 0.7		< 1.4	
BG20	Dinitrophenol, 2,4-	49	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BG20	Nitrophenol, 2-	50	CCCSD	EPA 625	ug/L	< 1.47		< 1.47		< 1.3		< 1.5	
BG20	Nitrophenol, 2-	50	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BG20	Nitrophenol, 4-	51	CCCSD	EPA 625	ug/L	< 1.81		< 1.81		< 1.6		< 1.8	
BG20	Nitrophenol, 4-	51	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BG20	Chloro-3-methylphenol, 4-	52	CCCSD	EPA 625	ug/L	< 1.53		< 1.53		< 1.1		< 1.5	
BG20	Chloro-3-methylphenol, 4-	52	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BG20	Pentachlorophenol	53	CCCSD	EPA 625	ug/L	< 1.28		< 1.28		< 1		< 1.3	
BG20	Pentachlorophenol	53	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BG20	Phenol	54	CCCSD	EPA 625	ug/L	< 1.68		< 1.68		< 1.3		< 1.7	
BG20	Phenol	54	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BG20	Trichlorophenol, 2,4,6-	55	CCCSD	EPA 625	ug/L	< 1.34		< 1.34		< 1.3		< 1.3	
BG20	Trichlorophenol, 2,4,6-	55	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BG20	Acenaphthene	56	CCCSD	EPA 625	ug/L	< 0.33		< 0.33		< 0.3		< 0.33	
BG20	Acenaphthene	56	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BG20	Acenaphthylene	57	CCCSD	EPA 625	ug/L	< 0.36		< 0.36		< 0.3		< 0.36	
BG20	Acenaphthylene	57	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BG20	Anthracene	58	CCCSD	EPA 625	ug/L	< 0.21		< 0.21		< 0.4		< 0.21	

SITE CODE	PARAMETER	CTR #	LAB	METHOD	UNITS	2002-01	QA Code 2002-01	2002-07	QA Code 2002-07	2003-01	QA Code 2003-01	2003-08	QA Code 2003-08
BG20	Anthracene	58	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BG20	Benzidine	59	CCCSD	EPA 625	ug/L	< 12.45		< 12.45		< 24.7		< 12.5	
BG20	Benzidine	59	CCCSD	EPA 625MOD	ug/L	< 0.0015		< 0.0015		< 0.002		< 0.0003	
BG20	Benzidine	59	PAI	EPA 1625MOD	ug/L	< 0.01		< 0.01		< 0.01			
BG20	Benz(a)anthracene	60	CCCSD	EPA 625	ug/L	< 0.21		< 0.21		< 0.4		< 0.21	
BG20	Benz(a)anthracene	60	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BG20	Benzo(a)pyrene	61	CCCSD	EPA 625	ug/L	< 0.22		< 0.22		< 0.3		< 0.22	
BG20	Benzo(a)pyrene	61	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BG20	Benzo(b)fluoranthene	62	CCCSD	EPA 625	ug/L	< 0.17		< 0.17		< 0.4		< 0.17	
BG20	Benzo(b)fluoranthene	62	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BG20	Benzo(g,h,i)perylene	63	CCCSD	EPA 625	ug/L	< 0.25		< 0.25		< 0.3		< 0.25	
BG20	Benzo(g,h,i)perylene	63	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BG20	Benzo(k)fluoranthene	64	CCCSD	EPA 625	ug/L	< 0.13		< 0.13		< 0.3		< 0.13	
BG20	Benzo(k)fluoranthene	64	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BG20	Bis(2-chloroethoxy)methane	65	CCCSD	EPA 625	ug/L	< 0.39		< 0.39		< 0.3		< 0.39	
BG20	Bis(2-chloroethoxy)methane	65	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BG20	Bis(2-chloroethyl)ether	66	CCCSD	EPA 625	ug/L	< 0.32		< 0.32		< 0.3		< 0.32	
BG20	Bis(2-chloroethyl)ether	66	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BG20	Bis(2-ethylhexyl)phthalate	68	AXYS	PH/01Rev.3	ug/L							-	R
BG20	Bis(2-ethylhexyl)phthalate	68	CCCSD	EPA 625	ug/L	0.68		< 0.67		< 0.5		< 0.7	
BG20	Bis(2-ethylhexyl)phthalate	68	PAI	EPA 1625	ug/L	< 10		26.8		< 10			
BG20	Bromophenyl phenyl ether, 4-	69	CCCSD	EPA 625	ug/L	< 0.23		< 0.23		< 0.3		< 0.23	
BG20	Bromophenyl phenyl ether, 4-	69	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BG20	Butyl benzyl phthalate	70	AXYS	PH/01Rev.3	ug/L							-	R
BG20	Butyl benzyl phthalate	70	CCCSD	EPA 625	ug/L	< 0.52		< 0.52		< 0.7		< 0.5	
BG20	Butyl benzyl phthalate	70	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BG20	Chloronaphthalene, 2-	71	CCCSD	EPA 625	ug/L	< 0.32		< 0.32		< 0.3		< 0.3	
BG20	Chloronaphthalene, 2-	71	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BG20	Chlorophenyl phenyl ether, 4-	72	CCCSD	EPA 625	ug/L	< 0.31		< 0.31		< 0.3		< 0.31	
BG20	Chlorophenyl phenyl ether, 4-	72	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BG20	Chrysene	73	CCCSD	EPA 625	ug/L	< 0.19		< 0.19		< 0.3		< 0.19	
BG20	Chrysene	73	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BG20	Dibenz(a,h)anthracene	74	CCCSD	EPA 625	ug/L	< 0.23		< 0.23		< 0.3		< 0.23	
BG20	Dibenz(a,h)anthracene	74	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BG20	Dichlorobenzene, 1,2-	75	CCCSD	EPA 624	ug/L	< 1.3		< 0.5		< 0.5		< 1	
BG20	Dichlorobenzene, 1,2-	75	CCCSD	EPA 625	ug/L	< 0.33		< 0.33		< 0.3		< 0.3	
BG20	Dichlorobenzene, 1,2-	75	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BG20	Dichlorobenzene, 1,3-	76	CCCSD	EPA 624	ug/L	< 1.5		< 0.5		< 0.5		< 1	
BG20	Dichlorobenzene, 1,3-	76	CCCSD	EPA 625	ug/L	< 0.33		< 0.33		< 0.3		< 0.3	
BG20	Dichlorobenzene, 1,3-	76	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BG20	Dichlorobenzene, 1,4-	77	CCCSD	EPA 624	ug/L	< 1.3		< 0.5		< 0.5		< 1	
BG20	Dichlorobenzene, 1,4-	77	CCCSD	EPA 625	ug/L	< 0.33		< 0.33		< 0.3		< 0.3	
BG20	Dichlorobenzene, 1,4-	77	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BG20	Dichlorobenzidine, 3,3'-	78	CCCSD	EPA 625	ug/L	< 4.37		< 4.37		< 5.2		< 4.4	
BG20	Dichlorobenzidine, 3,3'-	78	CCCSD	EPA 625MOD	ug/L	< 0.001		< 0.001		< 0.001		< 0.0002	
BG20	Dichlorobenzidine, 3,3'-	78	PAI	EPA 1625MOD	ug/L	< 0.004		< 0.004		< 0.004			
BG20	Diethyl phthalate	79	CCCSD	EPA 625	ug/L	< 0.24		< 0.24		< 0.5		< 0.2	
BG20	Diethyl phthalate	79	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BG20	Dimethyl Phthalate	80	CCCSD	EPA 625	ug/L	< 0.24		< 0.24		< 0.3		< 0.2	
BG20	Dimethyl Phthalate	80	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BG20	Di-n-butyl phthalate	81	AXYS	PH/01Rev.3	ug/L							-	R
BG20	Di-n-butyl phthalate	81	CCCSD	EPA 625	ug/L	1.72		< 1.07		< 0.5		< 1.1	
BG20	Di-n-butyl phthalate	81	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BG20	Dinitrotoluene, 2,4-	82	CCCSD	EPA 625	ug/L	< 0.27		< 0.27		< 0.4		< 0.3	
BG20	Dinitrotoluene, 2,4-	82	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BG20	Dinitrotoluene, 2,6-	83	CCCSD	EPA 625	ug/L	< 0.29		< 0.29		< 0.3		< 0.3	
BG20	Dinitrotoluene, 2,6-	83	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BG20	Di-n-octyl phthalate	84	CCCSD	EPA 625	ug/L	< 0.38		< 0.38		< 0.5		< 0.4	
BG20	Di-n-octyl phthalate	84	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BG20	Diphenylhydrazine, 1,2-	85	CCCSD	EPA 625	ug/L	< 0.17		< 0.17		< 0.3		< 0.2	
BG20	Diphenylhydrazine, 1,2-	85	CCCSD	EPA 625MOD	ug/L	0.0087		< 0.002		< 0.002		< 0.0004	
BG20	Diphenylhydrazine, 1,2-	85	PAI	EPA 1625MOD	ug/L	< 0.002		< 0.002		< 0.002			
BG20	Fluoranthene	86	CCCSD	EPA 625	ug/L	< 0.24		< 0.24		< 0.4		< 0.24	
BG20	Fluoranthene	86	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BG20	Fluorene	87	CCCSD	EPA 625	ug/L	< 0.31		< 0.31		< 0.3		< 0.31	
BG20	Fluorene	87	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BG20	Hexachlorobenzene	88	CCCSD	EPA 625	ug/L	< 0.17		< 0.17		< 0.3		< 0.2	
BG20	Hexachlorobenzene	88	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BG20	Hexachlorobutadiene	89	CCCSD	EPA 625	ug/L	< 0.34		< 0.34		< 0.3		< 0.3	
BG20	Hexachlorobutadiene	89	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BG20	Hexachlorocyclopentadiene	90	CCCSD	EPA 625	ug/L	< 0.31		< 0.31		< 0.8		< 0.3	
BG20	Hexachlorocyclopentadiene	90	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BG20	Hexachloroethane	91	CCCSD	EPA 625	ug/L	< 0.4		< 0.4		< 0.2		< 0.4	
BG20	Hexachloroethane	91	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BG20	Indeno(1,2,3-c,d)pyrene	92	CCCSD	EPA 625	ug/L	< 0.28		< 0.28		< 0.3		< 0.28	
BG20	Indeno(1,2,3-c,d)pyrene	92	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BG20	Isophorone	93	CCCSD	EPA 625	ug/L	< 0.38		< 0.38		< 0.3		< 0.4	
BG20	Isophorone	93	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BG20	Naphthalene	94	CCCSD	EPA 625	ug/L	< 0.35		< 0.35		< 0.3		< 0.35	
BG20	Naphthalene	94	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BG20	Nitrobenzene	95	CCCSD	EPA 625	ug/L	< 0.25		< 0.25		< 0.3		< 0.3	
BG20	Nitrobenzene	95	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BG20	Nitrosodimethylamine, N-	96	CCCSD	EPA 625	ug/L	< 0.33		< 0.33		< 0.3		< 0.3	
BG20	Nitrosodimethylamine, N-	96	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BG20	Nitrosodi-n-propylamine, N-	97	CCCSD	EPA 625	ug/L	< 0.4		< 0.4		< 0.3		< 0.4	
BG20	Nitrosodi-n-propylamine, N-	97	CCCSD	EPA 625MOD	ug/L	< 0.001		< 0.001				< 0.0002	
BG20	Nitrosodi-n-propylamine, N-	97	PAI	EPA 1625MOD	ug/L	< 0.005		< 0.005		< 0.005			
BG20	Nitrosodiphenylamine, N-	98	CCCSD	EPA 625	ug/L	< 0.19		< 0.19		< 0.3		< 0.2	
BG20	Nitrosodiphenylamine, N-	98	CCCSD	EPA 625MOD	ug/L					< 0.001			
BG20	Nitrosodiphenylamine, N-	98	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BG20	Phenanthrene	99	CCCSD	EPA 625	ug/L	< 0.18		< 0.18		< 0.4		< 0.18	
BG20	Phenanthrene	99	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BG20	Pyrene	100	CCCSD	EPA 625	ug/L	< 0.24		< 0.24		< 0.4		< 0.24	
BG20	Pyrene	100	PAI	EPA 1625	ug/L	< 10		< 10		< 10			

SITE CODE	PARAMETER	CTR #	LAB	METHOD	UNITS	2002-01	QA Code 2002-01	2002-07	QA Code 2002-07	2003-01	QA Code 2003-01	2003-08	QA Code 2003-08
BG20	Trichlorobenzene, 1,2,4-	101	CCCSD	EPA 625	ug/L	< 0.32		< 0.32		< 0.3		< 0.3	
BG20	Trichlorobenzene, 1,2,4-	101	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BG20	HpCDD, 1,2,3,4,6,7,8-	(16)	AXYS	EPA 1613B	pg/L	0.47		0.414	Q	0.504	Q	0.41	Q
BG20	HpCDF, 1,2,3,4,6,7,8-	(16)	AXYS	EPA 1613B	pg/L	0.106		0.12		0.109	Q	0.0903	Q
BG20	HpCDF, 1,2,3,4,7,8,9-	(16)	AXYS	EPA 1613B	pg/L	0.01		-	R	-	R	-	R
BG20	HxCDD, 1,2,3,4,7,8-	(16)	AXYS	EPA 1613B	pg/L	0.009		0.00979	E	-	R	0.00877	
BG20	HxCDD, 1,2,3,6,7,8-	(16)	AXYS	EPA 1613B	pg/L	0.03	E	0.0343	Q	0.035	Q	0.029	
BG20	HxCDD, 1,2,3,7,8,9-	(16)	AXYS	EPA 1613B	pg/L	0.027		0.0294	E	0.032	E	0.024	
BG20	HxCDF, 1,2,3,4,7,8-	(16)	AXYS	EPA 1613B	pg/L	0.017		0.0145	Q	-	R	0.0141	
BG20	HxCDF, 1,2,3,6,7,8-	(16)	AXYS	EPA 1613B	pg/L	0.009		0.0104	E	-	R	0.00875	
BG20	HxCDF, 1,2,3,7,8,9-	(16)	AXYS	EPA 1613B	pg/L	0.003	E	0.00304	R	-	R	< 0.005	
BG20	HxCDF, 2,3,4,6,7,8-	(16)	AXYS	EPA 1613B	pg/L	0.007	E	0.00899	Q	-	R	0.00737	
BG20	OCDD, 1,2,3,4,6,7,8,9-	(16)	AXYS	EPA 1613B	pg/L	3.35		2.74	Q	3.12	Q	3.05	Q
BG20	OCDF, 1,2,3,4,6,7,8,9-	(16)	AXYS	EPA 1613B	pg/L	0.216		0.221	Q	0.221	Q	0.165	Q
BG20	PeCDD, 1,2,3,7,8-	(16)	AXYS	EPA 1613B	pg/L	0.012	E	-	R	0.0105		0.00803	E
BG20	PeCDF, 1,2,3,7,8-	(16)	AXYS	EPA 1613B	pg/L	0.009	E	-	R	-	R	0.00584	
BG20	PeCDF, 2,3,4,7,8-	(16)	AXYS	EPA 1613B	pg/L	0.014		-	R	-	R	0.011	
BG20	TCDF, 2,3,7,8-	(16)	AXYS	EPA 1613B	pg/L	0.02		0.0374	E	< 0.03		0.0204	E
BG20	Sum of Dioxin-Furan TEQs (WHO 2005;ND=0 SFEI)	(16)	AXYS	EPA 1613B	pg/L	0.0415998		0.0207063		0.0243323		0.0287117	
BG20	Sum of Dioxin-Furan TEQs (WHO 1998;ND=0 SFEI)	(16)	AXYS	EPA 1613B	pg/L	0.0438666		0.0201141		0.0236641		0.0303855	
BG20	HpCDD, 1,2,3,4,6,7,8-	(16)	FAL	EPA 1613	pg/L			1.9	E	1.31	E	2.05	E
BG20	HpCDF, 1,2,3,4,6,7,8-	(16)	FAL	EPA 1613	pg/L			< 0.472		< 0.373		< 0.373	
BG20	HpCDF, 1,2,3,4,7,8,9-	(16)	FAL	EPA 1613	pg/L			< 0.468		< 0.468		< 0.468	
BG20	HxCDD, 1,2,3,4,7,8-	(16)	FAL	EPA 1613	pg/L			< 0.758		< 0.725		< 0.725	
BG20	HxCDD, 1,2,3,6,7,8-	(16)	FAL	EPA 1613	pg/L			< 0.815		< 0.835		< 0.835	
BG20	HxCDD, 1,2,3,7,8,9-	(16)	FAL	EPA 1613	pg/L			< 0.798		< 0.742		< 0.742	
BG20	HxCDF, 1,2,3,4,7,8-	(16)	FAL	EPA 1613	pg/L			< 0.365		< 0.204		< 0.204	
BG20	HxCDF, 1,2,3,6,7,8-	(16)	FAL	EPA 1613	pg/L			< 0.370		< 0.246		< 0.246	
BG20	HxCDF, 1,2,3,7,8,9-	(16)	FAL	EPA 1613	pg/L			< 0.450		< 0.191		< 0.191	
BG20	HxCDF, 2,3,4,6,7,8-	(16)	FAL	EPA 1613	pg/L			< 0.435		< 0.23		< 0.23	
BG20	OCDD, 1,2,3,4,6,7,8,9-	(16)	FAL	EPA 1613	pg/L			10.8	E	9.77	E	11.4	E
BG20	OCDF, 1,2,3,4,6,7,8,9-	(16)	FAL	EPA 1613	pg/L			1.04	E	< 1.07		< 1.07	
BG20	PeCDD, 1,2,3,7,8-	(16)	FAL	EPA 1613	pg/L			< 0.475		< 0.574		< 0.574	
BG20	PeCDF, 1,2,3,7,8-	(16)	FAL	EPA 1613	pg/L			< 0.380		< 0.523		< 0.523	
BG20	PeCDF, 2,3,4,7,8-	(16)	FAL	EPA 1613	pg/L			< 0.365		< 0.496		< 0.496	
BG20	TCDF, 2,3,7,8-	(16)	FAL	EPA 1613	pg/L			< 0.255		< 0.222		< 0.222	
BG20	Sum of Dioxin-Furan TEQs (WHO 2005;ND=0 SFEI)	(16)	FAL	EPA 1613	pg/L			0.022552		0.016031		0.02392	
BG20	Sum of Dioxin-Furan TEQs (WHO 1998;ND=0 SFEI)	(16)	FAL	EPA 1613	pg/L			0.020184		0.014077		0.02164	
BG20	Tributyltin as Sn	A1	EBMUD	EBMUD	ug/L					< 0.0046			
BG20	Tributyltin as Sn	A1	EBMUD	EBMUD-BUTYLTINS	ug/L							< 0.0046	
BG20	Tributyltin as Sn	A1	EBMUD	GC/MS	ug/L	< 0.0046		< 0.0046					
BG20	Dibutyltin as Sn	A1	TOXSCAN	EPA GC/FPD	ug/L					< 0.002			
BG20	Monobutyltin as Sn	A1	TOXSCAN	EPA GC/FPD	ug/L					< 0.002			
BG20	Tributyltin as Sn	A1	TOXSCAN	EPA GC/FPD	ug/L	< 0.001		< 0.002		< 0.002		0.00214	
BG20	Hardness as CaCO3	anc	CCCSD	UNKNOWN	mg/L	130		342		75		88	
BG20	Total Solids	anc	CCCSD	UNKNOWN	%	0.06		0.2		< 0.02		0.04	
BG20	Acetic acid ethenyl ester	extra	CCCSD	EPA 624	ug/L	< 1.6		< 0.5		< 0.5		< 1	
BG20	Acetone	extra	CCCSD	EPA 624	ug/L	< 1.3		1.7		< 0.5		< 3.5	
BG20	Butanone, 2-	extra	CCCSD	EPA 624	ug/L	< 2		4		-	R	< 1.6	
BG20	Carbon Disulfide	extra	CCCSD	EPA 624	ug/L	< 0.5		< 0.5		< 1.4		< 1	
BG20	Dichloro-2-butene, cis 1,4-	extra	CCCSD	EPA 624	ug/L	< 2		< 0.5					
BG20	Dichlorodifluoromethane	extra	CCCSD	EPA 624	ug/L	< 1.6		< 0.8		< 0.8		< 1	
BG20	Dichloroethylene, cis 1,2-	extra	CCCSD	EPA 624	ug/L							< 1	
BG20	Dichloropropene, trans 1,3-	extra	CCCSD	EPA 624	ug/L	< 1.1		< 0.5		< 0.5		< 1	
BG20	Dichloro-trans-2-butene, 1,4-	extra	CCCSD	EPA 624	ug/L	< 2.5		< 0.5					
BG20	Hexanone, 2-	extra	CCCSD	EPA 624	ug/L	< 1.8		< 0.5		< 0.5		< 1	
BG20	Methyl Tert-butyl Ether	extra	CCCSD	EPA 624	ug/L	< 1		< 0.5		< 0.5		< 1	
BG20	Methyl-2-pentanone, 4-	extra	CCCSD	EPA 624	ug/L	< 1.5		< 0.5		< 0.5		< 1	
BG20	Pentachloroethane	extra	CCCSD	EPA 624	ug/L	< 0.8		< 0.5		< 0.5		< 2	
BG20	Styrene	extra	CCCSD	EPA 624	ug/L	< 0.5		< 0.5		< 0.5		< 1	
BG20	Trichlorofluoromethane	extra	CCCSD	EPA 624	ug/L	< 1		< 0.5		< 1		< 1	
BG20	Xylene, m/p-	extra	CCCSD	EPA 624	ug/L	< 0.6		< 0.8		< 0.8		< 1	
BG20	Xylene, o-	extra	CCCSD	EPA 624	ug/L	< 0.4		< 0.5		< 0.5		< 1	
BG20	Aniline	extra	CCCSD	EPA 625	ug/L	< 0.81		< 0.81		< 1.5		< 0.8	
BG20	Benzoic Acid	extra	CCCSD	EPA 625	ug/L	< 2.35		< 2.35		< 1.4		< 2.4	
BG20	Benzyl Alcohol	extra	CCCSD	EPA 625	ug/L	< 0.95		< 0.95		< 1		< 1	
BG20	Bis(2-chloro-1-methylethyl) ether	extra	CCCSD	EPA 625	ug/L	< 0.37		< 0.37		< 0.3		< 0.37	
BG20	Chloroaniline, 4-	extra	CCCSD	EPA 625	ug/L	< 0.63		< 0.63		< 0.8		< 0.6	
BG20	Dibenzofuran	extra	CCCSD	EPA 625	ug/L	< 0.73		< 0.73		< 0.8		< 0.7	
BG20	Methylnaphthalene, 2-	extra	CCCSD	EPA 625	ug/L	< 0.88		< 0.88		< 0.7		< 0.9	
BG20	Methylphenol, 2-	extra	CCCSD	EPA 625	ug/L	< 1.9		< 1.9		< 1.2		< 1.9	
BG20	Methylphenol, 3/4-	extra	CCCSD	EPA 625	ug/L	< 1.83		< 1.83		< 1.3		< 1.8	
BG20	Nitroaniline, 2-	extra	CCCSD	EPA 625	ug/L	< 0.69		< 0.69		< 0.8		< 0.7	
BG20	Nitroaniline, 3-	extra	CCCSD	EPA 625	ug/L	< 0.6		< 0.6		< 0.9		< 0.6	
BG20	Nitroaniline, 4-	extra	CCCSD	EPA 625	ug/L	< 0.85		< 0.85		< 1		< 0.9	
BG20	Pyridine	extra	CCCSD	EPA 625	ug/L	< 1.33		< 1.33		< 2.7		< 1.3	
BG20	Trichlorophenol, 2,4,5-	extra	CCCSD	EPA 625	ug/L	< 1.72		< 1.72		< 1.2		< 1.7	
BG20	Dichloropropene, trans 1,3-	extra	PAI	EPA 1624	ug/L	< 2		< 2		< 2			
BG20	Biphenyl	extra	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BG20	Bis(2-chloro-1-methylethyl) ether	extra	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BG20	Carbazole	extra	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BG20	Decane, n-	extra	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BG20	Dibenzofuran	extra	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BG20	Dibenzothiophene	extra	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BG20	Diphenyl ether	extra	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BG20	Diphenylamine	extra	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BG20	Docosane, n-	extra	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BG20	Dodecane, n-	extra	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BG20	Eicosane, n-	extra	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BG20	Hexacosane, n-	extra	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BG20	Hexadecane, n-	extra	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BG20	Isopropyltoluene, p-	extra	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BG20	Methylpyridine, 2-	extra	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BG20	Naphthalenamine, 2-	extra	PAI	EPA 1625	ug/L	< 10		< 10		< 10			

SITE CODE	PARAMETER	CTR #	LAB	METHOD	UNITS	2002-01	QA Code 2002-01	2002-07	QA Code 2002-07	2003-01	QA Code 2003-01	2003-08	QA Code 2003-08
BG20	Octacosane, n-	extra	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BG20	Octadecane, n-	extra	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BG20	Styrene	extra	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BG20	Terpineol, alpha-	extra	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BG20	Tetracosane, n-	extra	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BG20	Tetradecane, n-	extra	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BG20	Triacontane, n-	extra	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BG20	Trichlorobenzene, 1,2,3-	extra	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BG20	Trichlorophenol, 2,3,6-	extra	PAI	EPA 1625	ug/L	< 10		< 10		< 10			
BG20	Trichlorophenol, 2,4,5-	extra	PAI	EPA 1625	ug/L	< 10		< 10		< 10			

Appendix 3. All Results for CTR Priority Pollutants in RMP S&T Monitoring (1993-2015)

Key:

<	indicates a non-detect, the subsequent number is lab provided MDL
E	estimated result
NRT	no result for total fraction possible (unreported dissolved or particulate fraction)
Q	qualified result (QA slightly outside target range)
R	rejected result (QA poor, non-quantitative and result censored)

Station Code	Analyte Name	CTR Order	UNITS	1993-03	QA Code 1993-03	1993-04R	QA Code 1993-	1993-05	QA Code 1993-05	1993-06R	QA Code 1993-	1993-09	QA Code 1993-09	1994-01	QA Code 1994-01	1994-04	QA Code 1994-04	1994-04R	QA Code 1994-	1994-05R	QA Code 1994-	1994-08	QA Code 1994-08	1995-02	QA Code 1995-02	1995-04	QA Code 1995-04	1995-08	QA Code 1995-08	1996-02
BA30	Arsenic	2	ug/L	1.96				2.81				4.37		2.87		2.86						3.94		2.1		2.69		4.59		2.21
BA30	Cadmium	4	ug/L	0.05681				0.08686				0.14059		0.08926		0.1092						0.17069		0.0728		0.063		0.13		0.08
BA30	Chromium	5	ug/L	2.34				2.28				2.19		6.3458		4.153						9.32		1.475		13.48		9.9		1.3
BA30	Copper	6	ug/L	3.25				3.58				3.48		4.09		5.198						6.173		3.2114		7.19		5.2		2.98
BA30	Lead	7	ug/L	0.48				0.585				0.573		1.6839		1.312						1.657		0.377		3.78		2.12		0.57
BA30	Mercury	8	ug/L	0.00874				0.00717				0.00799		0.0201		0.0115						0.0561		0.00784		0.0682		0.0262		0.00533
BA30	Nickel	9	ug/L	4.64				4.3				4.52		7.02		5.743						7.73		4.1605		13.03		7.96		3.57
BA30	Selenium	10	ug/L	0.281				0.259				0.259		0.4		0.319						0.322		0.353		0.379		0.186		0.281
BA30	Silver	11	ug/L	0.00798				0.11929				0.01886		0.03512		0.0191						0.02595		0.00667		0.02972		0.028		0.006
BA30	Zinc	13	ug/L	4.13				3.26				2.76		8.02		8.625						7.819		3.956		14.85		9.31		6.57
BA30	Cyanide	14	ug/L	< NMDL				< NMDL				< NMDL																		
BA30	TCDD, 2,3,7,8-	16	pg/L																											
BA30	Acenaphthene	56	pg/L																											649
BA30	Acenaphthylene	57	pg/L																											540
BA30	Anthracene	58	pg/L	118										57.1369		162						210		62		2300		310		155
BA30	Benz(a)anthracene	60	pg/L	467										535.91		2540						NR	R	740		-	R	3175		1680
BA30	Benzo(a)pyrene	61	pg/L	20.85714286										1114.39		< 6.1						4100		< 58		45000		< 58		26
BA30	Benzo(b)fluoranthene	62	pg/L	3563										1726.81		8910						12091		6910		57200		20140		4643
BA30	Benzo(g,h,i)perylene	63	pg/L	20.85714286										2127.42								1200								29
BA30	Benzo(k)fluoranthene	64	pg/L	1464										976.24		2660						4100		2500		21048		8074		2510
BA30	Bis(2-ethylhexyl)phthalate	68	pg/L																											
BA30	Butyl Benzyl Phthalate	70	pg/L																											
BA30	Chrysene	73	pg/L	1907										2078.54		3220						4479		2830		22062		8100		2190
BA30	Dibenz(a,h)anthracene	74	pg/L	20.85714286										48.082		832						3900		730		8800		2520		1200
BA30	Di-n-butyl Phthalate	81	pg/L																											
BA30	Fluoranthene	86	pg/L	5322										2180.32		8450						9700		5900		38960		11300		5200
BA30	Fluorene	87	pg/L																											1280
BA30	Hexachlorobenzene	88	pg/L	163.729										14.5511		8.3						< 0.8		24.7		31.9		5.6		12.41
BA30	Indeno(1,2,3-c,d)pyrene	92	pg/L	2781										1398.06		8366						12000		7230		78000		20160		6000
BA30	Naphthalene	94	pg/L																											2350
BA30	Phenanthrene	99	pg/L	2395										587.26		3050						3500		2600		14100		5700		3600
BA30	Pyrene	100	pg/L	5112										2146.12		9350						11910		4470		56031		12540		5900
BA30	Aldrin	102	pg/L																											
BA30	HCH, alpha-	103	pg/L	91.0669										661.569		603.8						546.8		596.7		449.5		184.5		392.8
BA30	HCH, beta-	104	pg/L	NRT	R									231.085		606.7						302		244		149.8		126		293.9
BA30	HCH, gamma-	105	pg/L	103.263										1666.67		1230						621		875.4		797		375.1		742.4
BA30	HCH, delta-	106	pg/L	NR	R									NR	R	< 0.8						18		9.4		14		50.9		7.7
BA30	Chlordane, cis-	107	pg/L	176.636										36.789		44						35		55		141		64		91
BA30	Chlordane, trans-	107	pg/L	145.553										-	R	41						35		83		131		57		63
BA30	DDT(p,p')	108	pg/L	107.107										30.0884		< 0.8						37.4		38.5		202		47.3		101
BA30	DDE(p,p')	109	pg/L	222.861										155.067		115						160		145		678		215		168
BA30	DDD(p,p')	110	pg/L	143.82										188.954		124						199		120		770		255		138
BA30	Dieldrin	111	pg/L	292.022										151.61		257.2						13.8		2.5		93.8		97		72.9
BA30	Endosulfan I	112	pg/L	-	R									13.211		< 1.05						< 1.67		< 1.05		< 1.1		< 1.1		< 1
BA30	Endosulfan II	113	pg/L	-	R									0.95937		< 1.67						< 1.15		< 1.67		< 1.7		< 1.7		< 1
BA30	Endosulfan Sulfate	114	pg/L	-	R									-	R	< 1.15						< 1.66105		< 1.15		< 1.2		< 1.2		< 1
BA30	Endrin	115	pg/L	NR	R									NR	R	-	R					60		120		< 1.4		< 1.4		< 1
BA30	Heptachlor	117	pg/L	NR	R									NR	R	< 0.8						22		< 1.6		8.7		< 1.6		< 1
BA30	Heptachlor Epoxide	118	pg/L	NR	R									< 0.48675		148						26.3		< 0.67		90		20.8		174.4
BA30	Sum of 40 PCBs (SFEI)	119	pg/L	734.482										1698.21		1405.2						1748.29		1626.4		4045.7		1301.1		586.5
BA30	Toxaphene	120	pg/L	NRT	R									< 0.48675																
BA30	HpCDD, 1,2,3,4,6,7,8-	(16)	pg/L																											
BA30	HpCDF, 1,2,3,4,6,7,8-	(16)	pg/L																											
BA30	HpCDF, 1,2,3,4,7,8,9-	(16)	pg/L																											
BA30	HxCDD, 1,2,3,4,7,8-	(16)	pg/L																											
BA30	HxCDD, 1,2,3,6,7,8-	(16)	pg/L																											
BA30	HxCDD, 1,2,3,7,8,9-	(16)	pg/L																											
BA30	HxCDF, 1,2,3,4,7,8-	(16)	pg/L																											
BA30	HxCDF, 1,2,3,6,7,8-	(16)	pg/L																											
BA30	HxCDF, 1,2,3,7,8,9-	(16)	pg/L																											
BA30	HxCDF, 2,3,4,6,7,8-	(16)	pg/L																											
BA30	OCDD, 1,2,3,4,6,7,8,9-	(16)	pg/L																											
BA30	OCDF, 1,2,3,4,6,7,8,9-	(16)	pg/L																											
BA30	PeCDD, 1,2,3,7,8-	(16)	pg/L																											
BA30	PeCDF, 1,2,3,7,8-	(16)	pg/L																											
BA30	PeCDF, 2,3,4,7,8-	(16)	pg/L																											
BA30	TCDD, 2,3,7,8-	(16)	pg/L																											
BA30	TCDF, 2,3,7,8-	(16)	pg/L																											
BA30	Sum of Dioxin-Furan TEQs (WHO 2005;ND=0 SFE	16	pg/L																											
BA30	Sum of Dioxin-Furan TEQs (WHO 1998;ND=0 SFE	16	pg/L																											

Station Code	Analyte Name	1996-02	QA Code	1996-04	QA Code	1996-07	QA Code	1997-01	QA Code	1997-04	QA Code	1997-07	QA Code	1998-02	QA Code	1998-04	QA Code	1998-07	QA Code	1999-02	QA Code	1999-04	QA Code	1999-07	QA Code	2000-02	QA Code	2000-07	QA Code	2001-02	QA Code
BA30	Arsenic			2.51		3.79		2.77		2.83		4.13		2.82		2.34		3.81		2.28		1.73		4.22		2.4		2.83		3.83	
BA30	Cadmium			0.06		0.12		0.05117		0.10652		0.1103		0.0783		0.0653		0.1		0.0738		0.0559		0.11127		0.10712		0.12333		0.10005	
BA30	Chromium			7.1		4.6		14.74		1.91356		3.83629		6.06644		5.92109		2.9945		4.55697		5.5928		3.56829							
BA30	Copper			4.04		3.8		5.15945		3.88578		3.2658		3.3803		4.0584		3.5612		4.3668		5.049		5.7083		3.25143		4.31286		8.58505	
BA30	Lead			0.87		0.511		2.69985		0.3277		0.36108		1.1643		0.7091		0.5022		0.8124		1.1501		0.9283		0.60372		0.97877		4.1798	
BA30	Mercury			0.0109		0.00662		0.0338		0.00544		0.0142		0.0137		0.0359		0.00851		0.01142		0.01169		0.00955		0.00708		-	R	0.00908	
BA30	Nickel			4.7		4.47		9.66132		4.46499		4.32485		6.0112		4.7786		4.4164		7.6028		8.3748		8.6285		3.8177		5.05262		15.7873	
BA30	Selenium			0.237		0.19		0.628		0.429		0.267		0.262		0.53		0.32		0.245		0.238		0.387		0.249		0.308		0.053	
BA30	Silver			0.00856		0.016		NR	R	NR	R	NR	R	0.0187		0.0155		0.0097		0.015		0.0203		0.0172		0.01196		0.0216		0.05954	
BA30	Zinc			6.31		3.72		9.69627		4.69222		5.01508		7.473		5.2795		4.8326		5.457		6.5282		4.89		4.27936		4.53918		21.2547	
BA30	Cyanide																														
BA30	TCDD, 2,3,7,8-																														
BA30	Acenaphthene			810		618		342		1100		210		1102		-	R	2640		140		390		560				< 250			
BA30	Acenaphthylene			380		259		478		450		120		367		< 262		< 262		110		330		160				< 250			
BA30	Anthracene			250		75		574		-	R	-	R	1282		1700		840		300		620		310				< 250			
BA30	Benz(a)anthracene			6510		2497		5865		11250		-	R	7053		-	R	-	R	7480		1080		2540				3300			
BA30	Benzo(a)pyrene			< 20		200		< 100		230		-	R	< 262		2400		680		140		< 260		< 100				< 250			
BA30	Benzo(b)fluoranthene			9810		3689		12100		16180		-	R	8982		12000		6000		6970		11310		7830				5400			
BA30	Benzo(g,h,i)perylene			8700		< 19		14241		15000		3900		8167		7600		4700		910		5100		< 100				< 250			
BA30	Benzo(k)fluoranthene			3065		553		5336		5100		-	R	3264		4100		1900		2000		3300		2600				1700			
BA30	Bis(2-ethylhexyl)phthalate																														
BA30	Butyl Benzyl Phthalate																														
BA30	Chrysene			3310		1820		5733		7120		-	R	3775		4600		2200		3050		4070		2540				1600			
BA30	Dibenz(a,h)anthracene			1300		510		1744		1500		480		1137		490		600		590		880		170				560			
BA30	Di-n-butyl Phthalate																														
BA30	Fluoranthene			9100		4400		10674		2330		-	R	11267		11980		-	R	6900		8100		7400				4800			
BA30	Fluorene			1330		1040		794		2120		-	R	1685		-	R	5450		290		820		1190				420			
BA30	Hexachlorobenzene			5		4.85		20.2		16.3		13.1		NRT	R	11		480		-	R	26.6		11.3				-	R		
BA30	Indeno(1,2,3-c,d)pyrene			9200		4500		13027		13000		4100		9063		12000		4800		3100		7400		6600				4200			
BA30	Naphthalene			290		1330		791		1100		< 99.8		< 262		< 262		< 262		< 262		370		150				< 250			
BA30	Phenanthrene			4900		3300		5462		8000		-	R	6185		-	R	-	R	NR	R	3400		3600				2600			
BA30	Pyrene			10000		4300		13322		1200		-	R	13802		12660		-	R	9230		12860		8700				5120			
BA30	Aldrin																											NR	R		
BA30	HCH, alpha-			313.5		211.1		100		190		-	R	NRT	R	-	R	-	R	93		146.8		68.3				40			
BA30	HCH, beta-			230		241.2		89		110				NRT	R	-	R	33		86.4		152		67.6				11.2			
BA30	HCH, gamma-			501.6		352.8		527.6		510		-	R	NRT	R	378		143.8		384.5		356		182				< 1			
BA30	HCH, delta-			14.2		14.3		< 1		< 1		-	R	NRT	R	-	R	-	R	81		2.3		< 1				132.6			
BA30	Chlordane, cis-			58		52		114		40		-	R	NRT	R	120		-	R	64		46		22.8				16			
BA30	Chlordane, trans-			47		40		98		46		-	R	NRT	R	81.8		-	R	69		44		21.9				8			
BA30	DDT(p,p')			70		20.2		201		< 1		-	R	NRT	R	-	R	11		47.1		64.5		9.1				-	R		
BA30	DDE(p,p')			182		93.69		442		187		124		NRT	R	257		-	R	201		180		118				67			
BA30	DDD(p,p')			146		166		332		83.8		4.1		NRT	R	-	R	-	R	390		103		95				32			
BA30	Dieldrin			1.5		10		141		120		-	R	NRT	R	< 1		< 1		86		74.5		52.9				46			
BA30	Endosulfan I			< 1		< 1		< 1		< 1		-	R	< 1		2.2		< 1		26.8		< 1		< 1				< 1			
BA30	Endosulfan II			22		< 1		< 1		< 1		-	R	NRT	R	< 1		< 1		< 1		46		1.9				2.3			
BA30	Endosulfan Sulfate			14.4		< 1		70		59		-	R	NRT	R	< 1		< 1		64.9		72		28				29			
BA30	Endrin			22		< 1		< 1		< 1		-	R	NRT	R	97		< 1		45		4.5		11.5				36			
BA30	Heptachlor			4.3		< 1		< 1		< 1		-	R	NRT	R	8.8		< 1		-	R	5.8		1.7				2.7			
BA30	Heptachlor Epoxide			57		41.6		67		5.7		-	R	NRT	R	31		-	R	55.1		40		8.2				9.9			
BA30	Sum of 40 PCBs (SFEI)			1075.3		1274.4		1158.1		793.2		832.5		NRT	R	762		450		811.4		829.4		518.6				366.5			
BA30	Toxaphene																														
BA30	HpCDD, 1,2,3,4,6,7,8-																														
BA30	HpCDF, 1,2,3,4,6,7,8-																														
BA30	HpCDF, 1,2,3,4,7,8,9-																														
BA30	HxCDD, 1,2,3,4,7,8-																														
BA30	HxCDD, 1,2,3,6,7,8-																														
BA30	HxCDD, 1,2,3,7,8,9-																														
BA30	HxCDF, 1,2,3,4,7,8-																														
BA30	HxCDF, 1,2,3,6,7,8-																														
BA30	HxCDF, 1,2,3,7,8,9-																														
BA30	HxCDF, 2,3,4,6,7,8-																														
BA30	OCDD, 1,2,3,4,6,7,8,9-																														
BA30	OCDF, 1,2,3,4,6,7,8,9-																														
BA30	PeCDD, 1,2,3,7,8-																														
BA30	PeCDF, 1,2,3,7,8-																														
BA30	PeCDF, 2,3,4,7,8-																														
BA30	TCDD, 2,3,7,8-																														
BA30	TCDF, 2,3,7,8-																														
BA30	Sum of Dioxin-Furan TEQs (WHO 2005;ND=0 SFE																														
BA30	Sum of Dioxin-Furan TEQs (WHO 1998;ND=0 SFE																														

Station Code	Analyte Name	2001-08	QA Code 2001-08	2002-07	QA Code 2002-07	2003-08	QA Code 2003-08	2004-07	QA Code 2004-07	2005-08	QA Code 2005-08	2006-08	QA Code 2006-08	2007-08	QA Code 2007-08	2008-07	QA Code 2008-07	2009-08	QA Code 2009-08	2010-08	QA Code 2010-08	2011-09	QA Code 2011-09	2013-08	QA Code 2013-08
BA30	Arsenic	4.93				5.05		2.899		3.48		2.56		3.848		3.53		3.87		3.23		2.18		3.54	
BA30	Cadmium	0.10398				0.08381		0.13303		0.06882		0.06188		0.133		0.101		0.133		0.114		0.0978	Q	0.144	
BA30	Chromium																								
BA30	Copper	3.76903				4.40833		3.17188		3.02405		3.0993		6.345		3.69		5.73		4.28		4.6	Q	3.33667	Q
BA30	Lead	0.38655				0.54311		0.24903		0.26407		0.3149		0.878		0.348		1.21		0.741		0.594		0.323	Q
BA30	Mercury	0.00911				0.0044		0.00613		0.00335		0.00845		0.0132		0.00606		0.0163		0.0127		0.00739	Q	0.005	
BA30	Nickel	3.82761				4.36705		1.30692		2.0888		2.58254		4.6		4.03		3.86		4.99	E	7.23	Q	4.71	
BA30	Selenium	0.18				0.213		0.103		0.128		0.114		0.2625		0.206		0.263		0.264		0.1755		0.367	
BA30	Silver	0.01586				0.02131		0.01998		0.0122		0.01396		0.0205		0.013		0.022		0.016		0.007	Q	< 0.012	
BA30	Zinc	2.59865				3.98481		1.60001		1.27285		2.0207		6.225		2.32		4.86		4.91		3.42		1.84	
BA30	Cyanide																			-	R	0.6		< 0.44	
BA30	TCDD, 2,3,7,8-																	0.042							
BA30	Acenaphthene	< 500				676						532		422		365						< 2410	Q		
BA30	Acenaphthylene	< 500				527.2						447		749		251						835	Q		
BA30	Anthracene	< 500				-	R					399		700		431						973	Q		
BA30	Benz(a)anthracene	4500				1763						1140		3650		1210						< 3460	R		
BA30	Benzo(a)pyrene	< 500				4656						3265		12600		3550						-	R		
BA30	Benzo(b)fluoranthene	5900				4090						2580		8120		2680						7230			
BA30	Benzo(g,h,i)perylene	3100				6472						4880		14800		3790						12200	Q		
BA30	Benzo(k)fluoranthene	1800				2600						1580		7240		2230						-	R		
BA30	Bis(2-ethylhexyl)phthalate					-	R																		
BA30	Butyl Benzyl Phthalate					-	R																		
BA30	Chrysene	1900				2468						1735		5650		1880						5030	Q		
BA30	Dibenz(a,h)anthracene	450				-	R					344		1210		386						968	Q		
BA30	Di-n-butyl Phthalate					-	R																		
BA30	Fluoranthene	4870				5450						4375		10700		3820						9790	Q		
BA30	Fluorene	< 500				-	R					584.5		-	R	371						< 863	R		
BA30	Hexachlorobenzene	18.8				-	R											-	R			-	R		
BA30	Indeno(1,2,3-c,d)pyrene	4600				5579						3460		12000		3380						-	R		
BA30	Naphthalene	< 500				4980						4095		2000		6920						3780	Q		
BA30	Phenanthrene	2570				2810						2415		3090		2100						5040	Q		
BA30	Pyrene	6200				7110						6055		15400		5370						14100	Q		
BA30	Aldrin	NR	R			-	R											16				< 10.9	Q		
BA30	HCH, alpha-	66				-	R											63				51.2			
BA30	HCH, beta-	210				122.29												125				106			
BA30	HCH, gamma-	63				80.35												44				-	R		
BA30	HCH, delta-	< 2				-	R											< 8.1				< 7.13			
BA30	Chlordane, cis-	14.8				27.89												< 24.3				< 17.9			
BA30	Chlordane, trans-	12.8				17.69												96				52.8			
BA30	DDT(p,p')	-	R			-	R											< 46.3				< 13.2			
BA30	DDE(p,p')	78				73.8												109				68.6			
BA30	DDD(p,p')	31				63.8												95				57.65			
BA30	Dieldrin	37.5				59.41												63				46.65			
BA30	Endosulfan I	< 2				-	R											-	R			< 140	Q		
BA30	Endosulfan II	< 2				-	R											< 60.2				< 86.3	Q		
BA30	Endosulfan Sulfate	23				21.825												66				< 54.9			
BA30	Endrin	< 2				-	R											< 19.9				< 17			
BA30	Heptachlor	< 2				-	R											< 4.8				< 7.45			
BA30	Heptachlor Epoxide	1.2				-	R											26				< 11.8			
BA30	Sum of 40 PCBs (SFEI)	522.9				486.724		315.362		210.939		358.059		794.7				513.64				583.24			
BA30	Toxaphene																								
BA30	HpCDD, 1,2,3,4,6,7,8-																	1.03							
BA30	HpCDF, 1,2,3,4,6,7,8-																	0.252							
BA30	HpCDF, 1,2,3,4,7,8,9-																	0.018							
BA30	HxCDD, 1,2,3,4,7,8-																	0.029							
BA30	HxCDD, 1,2,3,6,7,8-																	0.07							
BA30	HxCDD, 1,2,3,7,8,9-																	0.094							
BA30	HxCDF, 1,2,3,4,7,8-																	-	R						
BA30	HxCDF, 1,2,3,6,7,8-																	0.03							
BA30	HxCDF, 1,2,3,7,8,9-																	-	R						
BA30	HxCDF, 2,3,4,6,7,8-																	-	R						
BA30	OCDD, 1,2,3,4,6,7,8,9-																	7.08							
BA30	OCDF, 1,2,3,4,6,7,8,9-																	0.379							
BA30	PeCDD, 1,2,3,7,8-																	< 0.0258							
BA30	PeCDF, 1,2,3,7,8-																	0.026							
BA30	PeCDF, 2,3,4,7,8-																	-	R						
BA30	TCDD, 2,3,7,8-																	0.042							
BA30	TCDF, 2,3,7,8-																	-	R						
BA30	Sum of Dioxin-Furan TEQs (WHO 2005;ND=0 SFE																	0.08032							
BA30	Sum of Dioxin-Furan TEQs (WHO 1998;ND=0 SFE																	0.07935							

Station Code	Analyte Name	CTR Order	UNITS	1993-03	QA Code	1993-04R	QA Code	1993-05	QA Code	1993-06R	QA Code	1993-09	QA Code	1994-01	QA Code	1994-04	QA Code	1994-04R	QA Code	1994-05R	QA Code	1994-08	QA Code	1995-02	QA Code	1995-04	QA Code	1995-08	QA Code	1996-02	QA Code
BC10	Arsenic	2	ug/L	1.82				1.78				2.3		2.18		2.02						2.46		1.55		1.63		2.02		1.75	
BC10	Cadmium	4	ug/L	0.03332				0.06847				0.06406		0.06275		0.09508						0.12679		0.0321		0.048		0.09		0.07	
BC10	Chromium	5	ug/L	0.86				1.42				0.9		1.0696		1.782						1.17		0.8468		1.64		0.6		1.2	
BC10	Copper	6	ug/L	2.45				1.61				1.66		1.681		2.343						2.023		2.265		1.8		1.33		2.12	
BC10	Lead	7	ug/L	0.24				0.237				0.269		0.27904		0.804						0.194		0.1544		0.35		0.18		0.34	
BC10	Mercury	8	ug/L	0.00398				0.00346				0.0039		0.00419		0.0064						0.00287		0.00253		0.00342		0.00224		0.00452	
BC10	Nickel	9	ug/L	2.74				1.79				1.46		2.1345		3.213						2.06		2.8137		2.63		1.43		2.32	
BC10	Selenium	10	ug/L	0.132				0.234				0.275		0.39		0.271						0.267		-	R	0.181		-	R	0.295	
BC10	Silver	11	ug/L	0.00366				0.05158				0.00934		0.01297		0.01654						0.00895		0.00262		0.00332		0.01		0.004	
BC10	Zinc	13	ug/L	1.86				1.87				1.76		3.2572		3.222						1.77		2.0063		2.23		1.48		4.39	
BC10	Cyanide	14	ug/L	< NMDL				< NMDL				< NMDL																			
BC10	TCDD, 2,3,7,8-	16	pg/L																												
BC10	Acenaphthene	56	pg/L																											689	
BC10	Acenaphthylene	57	pg/L																											530	
BC10	Anthracene	58	pg/L	8										18.601		166						82		< 48		-	R	-	R	87	
BC10	Benz(a)anthracene	60	pg/L	91										327.16		1181						NR	R	63		-	R	390		1120	
BC10	Benzo(a)pyrene	61	pg/L	22										37.154		19						< 61		< 58		-	R	287		35	
BC10	Benzo(b)fluoranthene	62	pg/L	1088										1406.8		3961						1000		970		2200		1130		1856	
BC10	Benzo(g,h,i)perylene	63	pg/L	20.85714286										< 5								95								< 19	
BC10	Benzo(k)fluoranthene	64	pg/L	331										587.35		1216						310		470		620		780		1480	
BC10	Bis(2-ethylhexyl)phthalate	68	pg/L																												
BC10	Butyl Benzyl Phthalate	70	pg/L																												
BC10	Chrysene	73	pg/L	590										976.33		1410						420		670		1135		1070		1480	
BC10	Dibenz(a,h)anthracene	74	pg/L	41										25.292		350						250		100		390		400		640	
BC10	Di-n-butyl Phthalate	81	pg/L																												
BC10	Fluoranthene	86	pg/L	4033										4906.8		6600						3800		2520		2700		3930		4700	
BC10	Fluorene	87	pg/L																											1750	
BC10	Hexachlorobenzene	88	pg/L	15.7953										< 0.81652		8.8						8.9		16		4		2.2		11.81	
BC10	Indeno(1,2,3-c,d)pyrene	92	pg/L	208										516.265		3307.8						700		220		2000		650		2500	
BC10	Naphthalene	94	pg/L																											2290	
BC10	Phenanthrene	99	pg/L	2858										1423.89		2300						1120		1430		1970		2270		5100	
BC10	Pyrene	100	pg/L	838										1600.41		5100						1600		1760		1100		1030		4100	
BC10	Aldrin	102	pg/L																												
BC10	HCH, alpha-	103	pg/L	147.602										423.995		388.8						294.8		190		372.9		312		346.1	
BC10	HCH, beta-	104	pg/L	93.253										156.89		412.9						349		86		154.5		160		171.4	
BC10	HCH, gamma-	105	pg/L	106.979										703.423		396						203.6		230		237.2		162		310	
BC10	HCH, delta-	106	pg/L	NR	R									NR	R	< 0.8						< 0.8		34		6.8		5.9		7.4	
BC10	Chlordane, trans-	107	pg/L	24.3724										20.2218		28						32.3		24.1		27.1		14		26.8	
BC10	Chlordane, cis-	107	pg/L	24.6998										36.3471		32.6						28.4		18.4		25.1		17.2		45.5	
BC10	DDT(p,p')	108	pg/L	27.719										24.937		< 0.8						< 0.8		< 1.6		7.5		29		55	
BC10	DDE(p,p')	109	pg/L	49.794										51.759		88						43		88		151.2		32		126.9	
BC10	DDD(p,p')	110	pg/L	99.978										121.487		229						88		12		170		68		126	
BC10	Dieldrin	111	pg/L	263.594										171.08		93						16		< 1.38		< 1.4		53.1		64.3	
BC10	Endosulfan I	112	pg/L	23.268										< 0.81652		< 1.05						< 1.67		< 1.05		< 1.1		< 1.1		< 1	
BC10	Endosulfan II	113	pg/L	-	R									< 0.81652		< 1.67						< 1.15		< 1.67		< 1.7		< 1.7		< 1	
BC10	Endosulfan Sulfate	114	pg/L	-	R									< 0.81652		< 1.15						< 1.66105		< 1.15		< 1.2		< 1.2		< 1	
BC10	Endrin	115	pg/L	NR	R									NR	R	-	R					< 1.05		8.8		< 1.4		1.7		< 1	
BC10	Heptachlor	117	pg/L	NR	R									NR	R	< 0.8						19		< 1.6		< 1.6		2.4		1.7	
BC10	Heptachlor Epoxide	118	pg/L	NR	R									< 0.81652		9.3						< 0.8		94		15.9		11.1		62.8	
BC10	Sum of 40 PCBs (SFEI)	119	pg/L	472.352										938.309		1461.9						470.9		385.6		329.13		211.8		335.5	
BC10	Toxaphene	120	pg/L	0										< 0.81652																	
BC10	HpCDD, 1,2,3,4,6,7,8-	(16)	pg/L																												
BC10	HpCDF, 1,2,3,4,6,7,8-	(16)	pg/L																												
BC10	HpCDF, 1,2,3,4,7,8,9-	(16)	pg/L																												
BC10	HxCDD, 1,2,3,4,7,8-	(16)	pg/L																												
BC10	HxCDD, 1,2,3,6,7,8-	(16)	pg/L																												
BC10	HxCDD, 1,2,3,7,8,9-	(16)	pg/L																												
BC10	HxCDF, 1,2,3,4,7,8-	(16)	pg/L																												
BC10	HxCDF, 1,2,3,6,7,8-	(16)	pg/L																												
BC10	HxCDF, 1,2,3,7,8,9-	(16)	pg/L																												
BC10	HxCDF, 2,3,4,6,7,8-	(16)	pg/L																												
BC10	OCDD, 1,2,3,4,6,7,8,9-	(16)	pg/L																												
BC10	OCDF, 1,2,3,4,6,7,8,9-	(16)	pg/L																												
BC10	PeCDD, 1,2,3,7,8-	(16)	pg/L																												
BC10	PeCDF, 1,2,3,7,8-	(16)	pg/L																												
BC10	PeCDF, 2,3,4,7,8-	(16)	pg/L																												
BC10	TCDD, 2,3,7,8-	(16)	pg/L																												
BC10	TCDF, 2,3,7,8-	(16)	pg/L																												
BC10	Sum of Dioxin-Furan TEQs (WHO 2005;ND=0 SFEI)	16	pg/L																												
BC10	Sum of Dioxin-Furan TEQs (WHO 1998;ND=0 SFEI)	16	pg/L																												

Station Code	Analyte Name	1996-04	QA Code 1996-04	1996-07	QA Code 1996-07	1997-01	QA Code 1997-01	1997-04	QA Code 1997-04	1997-07	QA Code 1997-07	1998-02	QA Code 1998-02	1998-04	QA Code 1998-04	1998-07	QA Code 1998-07	1999-02	QA Code 1999-02	1999-04	QA Code 1999-04	1999-07	QA Code 1999-07	2000-02	QA Code 2000-02	2000-07	QA Code 2000-07	2001-02	QA Code 2001-02	2001-08	QA Code 2001-08
BC10	Arsenic	1.61		2.13		1.47		2.11		2.22		1.985		1.52		2.025		1.68		1.09		2.14		1.4		1.71		2.16		2.08	
BC10	Cadmium	0.05		0.1		0.03223		0.0719		0.10297		0.04235		0.0236		0.068		0.03094		0.06794		0.12576		0.09085		0.0858		0.06517		0.08497	
BC10	Chromium	0.7		4.4		3.27521		1.4107		1.39212		3.0524		2.69401		0.7086		0.64644		2.09171		3.32642									
BC10	Copper	1.24		1.75		1.82431		1.80157		1.49892		2.1369		2.1232		1.34		1.8027		1.6568		2.3322		2.12448		0.91132		2.54895		1.47963	
BC10	Lead	0.12		0.271		0.31174		0.2847		0.24971		0.6494		0.3521		0.1596		0.285		0.3512		0.6254		0.68528		0.21142		0.77735		0.25669	
BC10	Mercury	0.00181		0.00373		0.00011		0.0038		0.00261		0.00554		0.00303		0.00232		0.00334		0.00682		0.00682		0.00648		-	R	0.00089		0.0086	
BC10	Nickel	1.24		2.53		2.40084		1.89838		2.28938		3.503		2.4106		1.5982		2.321		2.238		3.729		3.01359		1.08607		3.67671		1.72121	
BC10	Selenium	-	R	0.086		0.106		-	R	0.137		0.152		0.19		0.12		0.109		< 0.02		0.106		< 0.03		0.039		0.076		0.08	
BC10	Silver	0.00423		0.007		NR	R	NR	R	NR	R	0.01015		0.0036		0.0041		0.0046		0.0064		0.0116		0.01098		0.00676		0.01231		0.00695	
BC10	Zinc	1.24		2.41		2.39858		2.74995		1.68881		3.93945		2.6478		1.9926		2.3398		2.5167		3.6818		3.0856		1.2661		5.09224		1.63241	
BC10	Cyanide																														
BC10	TCDD, 2,3,7,8-																														
BC10	Acenaphthene	1300		NR	R	973		770		1500		1390		-	R	1400		130		240		880				< 250				< 500	
BC10	Acenaphthylene	223		NR	R	< 98		< 98.1		170		272		< 262		< 262		< 262		< 260		110				< 250				< 500	
BC10	Anthracene	< 16		NR	R	< 99		< 99.1		440		498		-	R	< 262		< 262		< 260		350				< 250				< 500	
BC10	Benz(a)anthracene	791		NR	R	1138		1900		1340		5315		-	R	-	R	2550		240		1700				1300				1800	
BC10	Benzo(a)pyrene	< 20		NR	R	< 100		< 100.06		< 100		< 262		< 262		< 262		< 262		< 260		< 100				< 250				< 500	
BC10	Benzo(b)fluoranthene	1444		NR	R	959		2400		1400		4590		2100		800		1800		2700		4200				1900				2100	
BC10	Benzo(g,h,i)perylene	< 19		NR	R	< 99		2700		< 99		377		930		< 262		150		< 260		< 100				< 250				< 500	
BC10	Benzo(k)fluoranthene	519		NR	R	347		810		440		1508		570		< 262		740		850		1400				570				620	
BC10	Bis(2-ethylhexyl)phthalate																														
BC10	Butyl Benzyl Phthalate																														
BC10	Chrysene	720		NR	R	448		990		790		2402		650		410		1130		1100		1800				670				810	
BC10	Dibenz(a,h)anthracene	140		NR	R	< 100		250		120		596		< 262		< 262		220		210		440				< 250				< 500	
BC10	Di-n-butyl Phthalate																														
BC10	Fluoranthene	6000		NR	R	6712		2800		7000		10855		-	R	7800		3900		3400		6300				3000				3500	
BC10	Fluorene	2078		NR	R	1854		650		1100		1779		-	R	1400		240		600		1100				380				620	
BC10	Hexachlorobenzene	4.6		NR	R	13.2		20.2		8.6		NRT	R	2.2		8.5		-	R	13.7		9.9				-	R			22.1	
BC10	Indeno(1,2,3-c,d)pyrene	600		NR	R	< 100		2400		680		3981		1600		< 262		870		1600		3100				660				1400	
BC10	Naphthalene	1065		NR	R	425		190		420		< 262		< 262		< 262		< 262		290		240				< 250				< 500	
BC10	Phenanthrene	4650		NR	R	6000		2250		2390		6089		-	R	-	R	NR	R	2510		2800				1420				2600	
BC10	Pyrene	1300		NR	R	4000		3290		3900		8332		19380		-	R	3430		3410		5250				2180				2885	
BC10	Aldrin																									NR	R			NR	R
BC10	HCH, alpha-	495.7		NR	R	190		250		223		113.7		-	R	250		123.7		81		160				85				145	
BC10	HCH, beta-	321.9		NR	R	71		111		130		131		-	R	149.9		82		79.6		99				27.7				16	
BC10	HCH, gamma-	270		NR	R	140		140		131		140		-	R	152.6		175.3		53		60				< 1				53.5	
BC10	HCH, delta-	7.2		NR	R	7		< 1		< 1		< 1		53		-	R	6.9		6.5		3.5				42.4				< 2	
BC10	Chlordane, trans-	24.5		NR	R	26.5		14		20		36		-	R	-	R	14.5		12.6		7				2.4				4.9	
BC10	Chlordane, cis-	29.4		NR	R	34.9		26.5		30		51		39		-	R	13		12.8		5				7.3				4.6	
BC10	DDT(p,p')	32		NR	R	63		66		< 1		167		-	R	7.2		12.7		26.2		1.6				-	R			30.8	
BC10	DDE(p,p')	74		NR	R	133		105		84		NRT	R	693		73		82		75.7		74				44				68.5	
BC10	DDD(p,p')	95		NR	R	313		197		144		-	R	-	R	-	R	84		50		58				83				62	
BC10	Dieldrin	4.4		NR	R	184.1		78		75		110		< 1		39.1		55.4		27.9		23.8				21.5				19.2	
BC10	Endosulfan I	31		NR	R	< 1		< 1		< 1		< 1		< 1		< 1		19.6		< 1		1.9				3.6				< 2	
BC10	Endosulfan II	69		NR	R	< 1		< 1		< 1		< 1		< 1		< 1		18.6		39		< 1				< 1				< 2	
BC10	Endosulfan Sulfate	11		NR	R	81.9		26		< 1		39.7		11.5		21		41		27.5		39				12				7	
BC10	Endrin	16		NR	R	< 1		< 1		< 1		< 1		-	R	40		14		< 1		1.6				36				< 2	
BC10	Heptachlor	7.8		NR	R	< 1		< 1		< 1		< 1		< 1		-	R	< 1		< 1		13				3.3				< 2	
BC10	Heptachlor Epoxide	37.7		NR	R	16		32		34		24		-	R	-	R	6.3		10.1		2.8				8.8				25	
BC10	Sum of 40 PCBs (SFEI)	329.5		NR	R	190.2		275.4		307.6		NRT	R	1047.1		255.1		305.2		384.03		256.6				197.8				314.65	
BC10	Toxaphene			NR	R																										
BC10	HpCDD, 1,2,3,4,6,7,8-																														
BC10	HpCDF, 1,2,3,4,6,7,8-																														
BC10	HpCDF, 1,2,3,4,7,8,9-																														
BC10	HxCDD, 1,2,3,4,7,8-																														
BC10	HxCDD, 1,2,3,6,7,8-																														
BC10	HxCDD, 1,2,3,7,8,9-																														
BC10	HxCDF, 1,2,3,4,7,8-																														
BC10	HxCDF, 1,2,3,6,7,8-																														
BC10	HxCDF, 1,2,3,7,8,9-																														
BC10	HxCDF, 2,3,4,6,7,8-																														
BC10	OCDD, 1,2,3,4,6,7,8,9-																														
BC10	OCDF, 1,2,3,4,6,7,8,9-																														
BC10	PeCDD, 1,2,3,7,8-																														
BC10	PeCDF, 1,2,3,7,8-																														
BC10	PeCDF, 2,3,4,7,8-																														
BC10	TCDD, 2,3,7,8-																														
BC10	TCDF, 2,3,7,8-																														
BC10	Sum of Dioxin-Furan TEQs (WHO 2005;ND=0 SFEI)																														
BC10	Sum of Dioxin-Furan TEQs (WHO 1998;ND=0 SFEI)																														

Station Code	Analyte Name	2002-07	QA Code 2002-07	2003-08	QA Code 2003-08	2004-07	QA Code 2004-07	2005-08	QA Code 2005-08	2006-08	QA Code 2006-08	2007-08	QA Code 2007-08	2008-07	QA Code 2008-07	2009-08	QA Code 2009-08	2010-08	QA Code 2010-08	2011-09	QA Code 2011-09	2013-08	QA Code 2013-08
BC10	Arsenic			1.87		1.87		2.01		1.44		1.79		1.66		1.78		2		1.44		1.925	
BC10	Cadmium			0.06837		0.11713		0.07153		0.06052		0.069		0.10133		0.097		0.085		0.0857	Q	0.0979	
BC10	Chromium																						
BC10	Copper			1.58507		1.82154		1.39015		1.25241		2.33		1.23		1.7		1.66		1.2495	Q	1.685	
BC10	Lead			0.22126		0.38445		0.1902		0.22094		0.3515		0.21		0.3		0.342		0.296		0.257	Q
BC10	Mercury			0.00222		0.00393		0.00215		0.00602		0.00644		0.00242		0.00314		0.0047		0.00322	Q	0.00377	
BC10	Nickel			1.5127		1.84039		1.20555		1.48492		2.64		1.305		1.45		2.34		2.73	Q	2.33	
BC10	Selenium			0.0491		0.118		0.083		0.055		0.082		0.1025		0.133		0.156		0.21	E	0.22	
BC10	Silver			0.01398		0.01218		0.00665		0.00672		0.00837		0.004		0.007		0.006		< 0.005	Q	< 0.012	
BC10	Zinc			1.26929		2.35519		1.31715		1.29662		1.48		1.39		1.57		2.24		1.87		1.65	
BC10	Cyanide																	-	R	< 0.4		0.52	
BC10	TCDD, 2,3,7,8-															0.027				< 0.0395	Q		
BC10	Acenaphthene			1404										1675						1650	Q		
BC10	Acenaphthylene			-	R									382						459			
BC10	Anthracene			-	R									525.5						653			
BC10	Benz(a)anthracene			893.4										738						< 502	Q		
BC10	Benzo(a)pyrene			1468.6										1945						1410			
BC10	Benzo(b)fluoranthene			1382.9										1280						1120			
BC10	Benzo(g,h,i)perylene			1418.4										2175						1680			
BC10	Benzo(k)fluoranthene			1340										1225						720			
BC10	Bis(2-ethylhexyl)phthalate			-	R																		
BC10	Butyl Benzyl Phthalate			-	R																		
BC10	Chrysene			1566										1165						908			
BC10	Dibenz(a,h)anthracene			-	R									183						235			
BC10	Di-n-butyl Phthalate			-	R																		
BC10	Fluoranthene			4240										3365						3400	Q		
BC10	Fluorene			939										910.5						1010			
BC10	Hexachlorobenzene			-	R											11.4				-	R		
BC10	Indeno(1,2,3-c,d)pyrene			1327										1785						1450			
BC10	Naphthalene			-	R									6655						9220	Q		
BC10	Phenanthrene			2765										2920						3570	Q		
BC10	Pyrene			4281										3430						2790	Q		
BC10	Aldrin			-	R											< 8.49				< 16	Q		
BC10	HCH, alpha-			-	R											111				111			
BC10	HCH, beta-			141.667												151				128			
BC10	HCH, gamma-			58.38												52.8				-	R		
BC10	HCH, delta-			1.81												< 3.31				< 7.87			
BC10	Chlordane, trans-			6.34												< 19.8				< 16.8			
BC10	Chlordane, cis-			7.176												< 21.3				< 16.1			
BC10	DDT(p,p')			-	R											< 30				< 18.2			
BC10	DDE(p,p')			31.3												< 67.4				40			
BC10	DDD(p,p')			55.1												43.5				43.8			
BC10	Dieldrin			30.53												26.9				35			
BC10	Endosulfan I			-	R											114				< 140	Q		
BC10	Endosulfan II			-	R											111				< 63.1	Q		
BC10	Endosulfan Sulfate			14.2												< 28.5				< 26.8			
BC10	Endrin			2.383												< 14.4				< 18.3			
BC10	Heptachlor			-	R											< 6.83				< 5.52			
BC10	Heptachlor Epoxide			3.448												23.8				< 10.9			
BC10	Sum of 40 PCBs (SFEI)			252.567		443.153		189.653		160.708		222.845				224.496				206.457	Q		
BC10	Toxaphene																						
BC10	HpCDD, 1,2,3,4,6,7,8-															0.342				0.327	Q		
BC10	HpCDF, 1,2,3,4,6,7,8-															0.082				< 0.08	Q		
BC10	HpCDF, 1,2,3,4,7,8,9-															< 0.019				< 0.0115	Q		
BC10	HxCDD, 1,2,3,4,7,8-															< 0.0208				< 0.0165			
BC10	HxCDD, 1,2,3,6,7,8-															0.029				0.0226	Q		
BC10	HxCDD, 1,2,3,7,8,9-															0.027				< 0.0432	Q		
BC10	HxCDF, 1,2,3,4,7,8-															-	R			0.0178	Q		
BC10	HxCDF, 1,2,3,6,7,8-															< 0.0136				< 0.00792	Q		
BC10	HxCDF, 1,2,3,7,8,9-															-	R			0.00539	Q		
BC10	HxCDF, 2,3,4,6,7,8-															-	R			-	R		
BC10	OCDD, 1,2,3,4,6,7,8,9-															2.46				2.52	Q		
BC10	OCDF, 1,2,3,4,6,7,8,9-															0.135				0.192	Q		
BC10	PeCDD, 1,2,3,7,8-															< 0.0217				-	R		
BC10	PeCDF, 1,2,3,7,8-															< 0.0126				-	R		
BC10	PeCDF, 2,3,4,7,8-															-	R			0.0259	Q		
BC10	TCDD, 2,3,7,8-															0.027				< 0.0395	Q		
BC10	TCDF, 2,3,7,8-															-	R			< 0.0162	Q		
BC10	Sum of Dioxin-Furan TEQs (WHO 2005;ND=0 SFEI)															0.03762				0.01643			
BC10	Sum of Dioxin-Furan TEQs (WHO 1998;ND=0 SFEI)															0.0371				0.02107			

Station Code	Analyte Name	CTR Order	UNITS	1993-03	QA Code	1993-04R	QA Code	1993-05	QA Code	1993-06R	QA Code	1993-09	QA Code	1994-01	QA Code	1994-04	QA Code	1994-04R	QA Code	1994-05R	QA Code	1994-08	QA Code	1995-02	QA Code	1995-04	QA Code	1995-08	QA Code	1996-02	QA Code
BG20	Arsenic	2	ug/L	1.68		1.6		1.37		1.52		2.02		1.89		2.18		1.98		2.32		2.65		1.78		1.35		1.94		1.77	
BG20	Cadmium	4	ug/L	0.02116		0.0291		0.0309		0.0296		0.0263		0.022369		0.04422		0.2731		0.3187		0.03755		0.025		0.025		0.02		0.03	
BG20	Chromium	5	ug/L	8.4		2.835		3.68		2.69		4.44		1.4365		7.014		1.98		2.8675		2.36		6.618		5.79		2.7		8.2	
BG20	Copper	6	ug/L	5.23		3.39		3.35		3.75		3.74		NR	R	5.823		2.8		3.6		3.435		4.68		4.3		2.62		3.85	
BG20	Lead	7	ug/L	0.92		0.49		0.528		0.62		0.688		0.44051		1.508		0.29		0.49		0.453		0.621		0.8		0.5		0.74	
BG20	Mercury	8	ug/L	0.01026		0.006		0.006		0.0067		0.01		0.005		0.0126		0.0229		0.0533		0.0045		0.00657		0.0088		0.0048		0.0064	
BG20	Nickel	9	ug/L	6.66		3.53		3.2		3.07		3.45		2.52		5.753		2.65		3.99		2.85		6.3455		4.94		2.7		7.57	
BG20	Selenium	10	ug/L	0.197		0.17		0.153		0.34		0.241		0.299		0.251		0.23		0.15		0.156		0.14		0.108		-	R	0.157	
BG20	Silver	11	ug/L	0.00744		0.0004		0.0566		0.0031		0.009		NR	R	0.01548		0.024		0.0385		0.00297		0.00681		0.0075		0.007		0.006	
BG20	Zinc	13	ug/L	8.4		8.55		5		9.45		8.43		3.74		11.489		4.16		6		2.751		7.458		5.67		3.36		7.38	
BG20	Cyanide	14	ug/L	< NMDL		< 1		< NMDL		< NMDL		< NMDL						NR	R	NR	R										
BG20	TCDD, 2,3,7,8-	16	pg/L																												
BG20	Acenaphthene	56	pg/L																											-	R
BG20	Acenaphthylene	57	pg/L																											-	R
BG20	Anthracene	58	pg/L	< 20.85714286										< 5		64.6		221.15		222.21		< 51		< 48		-	R	< 48		85	
BG20	Benz(a)anthracene	60	pg/L	34										179.951		654		152.02		308.79		NR	R	< 54		-	R	380		144	
BG20	Benzo(a)pyrene	61	pg/L	< 20.85714286										56.693		< 6.1		87.84		43.45		< 61		71		< 58		< 58		30	
BG20	Benzo(b)fluoranthene	62	pg/L	175										155.15		1844		478.89		812.12		880		622		210		1090		330	
BG20	Benzo(g,h,i)perylene	63	pg/L	< 20.85714286										< 5				115.12		< 0.039298853		97								34	
BG20	Benzo(k)fluoranthene	64	pg/L	< 20.85714286										271.633		582		171.47		351.08		250		176		88		420		928	
BG20	Bis(2-ethylhexyl)phthalate	68	pg/L																												
BG20	Butyl Benzyl Phthalate	70	pg/L																												
BG20	Chrysene	73	pg/L	366										950.462		955		433.97		929.73		657		460		180		1060		228	
BG20	Dibenz(a,h)anthracene	74	pg/L	< 20.85714286										< 5		207.4		67.09		90.64		210		< 49		< 49		670		< 16	
BG20	Di-n-butyl Phthalate	81	pg/L																												
BG20	Fluoranthene	86	pg/L	1231										956.67		1930		2037.47		2852.53		1050		830		840		960		1180	
BG20	Fluorene	87	pg/L																											720	
BG20	Hexachlorobenzene	88	pg/L	53.3605										15.1249		26						16.4		10.5		31.9		3.1		12.25	
BG20	Indeno(1,2,3-c,d)pyrene	92	pg/L	< 20.85714286										< 5		1317		58.96		273.12		410		140		67		910		170	
BG20	Naphthalene	94	pg/L																											345	
BG20	Phenanthrene	99	pg/L	1245										555.95		960		1748.27		1755.98		520		650		810		890		1480	
BG20	Pyrene	100	pg/L	1216										1229.37		2410		1492.88		2130.47		1220		630		470		1720		1030	
BG20	Aldrin	102	pg/L																												
BG20	HCH, alpha-	103	pg/L	4.8796										NRT	R	70		< 1.168039427		< 1.168039427		346.8		13.6		32.6		< 1.6		6.2	
BG20	HCH, beta-	104	pg/L	-	R									NRT	R	26.8		< 3.425061517		< 3.425061517		118		8.1		18.2		14		6.3	
BG20	HCH, gamma-	105	pg/L	122.7812										NRT	R	290		< 1.314805224		< 1.314805224		1003.2		21		42.8		9.6		9.2	
BG20	HCH, delta-	106	pg/L	NR	R									NR	R	< 0.8						38		8.3		21		3.5		8	
BG20	Chlordane, cis-	107	pg/L	28.7244										NRT	R	27.4		153.139		107.499		24.9		18.1		18.9		29.7		23.5	
BG20	Chlordane, trans-	107	pg/L	34.4544										NRT	R	27		66.001		36.595		29.9		15.6		22.5		28.4		19.9	
BG20	DDT(p,p')	108	pg/L	51.84										NRT	R	27		4.308		9.497		34		5.8		11		9.1		16	
BG20	DDE(p,p')	109	pg/L	769.17										191.917		298		294.047		391.238		142		352		548		310		460	
BG20	DDD(p,p')	110	pg/L	106.162										NRT	R	210		76.519		118.102		82		53		127		98.7		192	
BG20	Dieldrin	111	pg/L	-	R									NRT	R	179.5		138.643		167.245		7.1		30.2		2.9		168.5		-	R
BG20	Endosulfan I	112	pg/L	26.089										NRT	R	< 1.05		< 1.564052485		< 1.564052485		< 1.67		< 1.05		< 1.1		< 1.1		-	R
BG20	Endosulfan II	113	pg/L	-	R									NRT	R	< 1.67		< 1.898660042		< 1.898660042		< 1.15		< 1.67		< 1.7		< 1.7		< 1	
BG20	Endosulfan Sulfate	114	pg/L	-	R									NRT	R	< 1.15						< 1.66105		< 1.15		< 1.2		< 1.2		< 1	
BG20	Endrin	115	pg/L	NR	R									NR	R	-	R					< 1.05		< 1.35		< 1.4		< 1.4		< 1	
BG20	Heptachlor	117	pg/L	NR	R									NR	R	1.3						11		< 1.6		< 1.6		2.4		< 1	
BG20	Heptachlor Epoxide	118	pg/L	NR	R									NRT	R	31.2		< 1.523757779		< 1.523757779		34		54		12		18		21.8	
BG20	Sum of 40 PCBs (SFEI)	119	pg/L	228.5626										265.9418		792.3						326.9		229.11		635.87		151.2		142.7	
BG20	Toxaphene	120	pg/L	0										NRT	R			< NMDL		< NMDL											
BG20	HpCDD, 1,2,3,4,6,7,8-	(16)	pg/L																												
BG20	HpCDF, 1,2,3,4,6,7,8-	(16)	pg/L																												
BG20	HpCDF, 1,2,3,4,7,8,9-	(16)	pg/L																												
BG20	HxCDD, 1,2,3,4,7,8-	(16)	pg/L																												
BG20	HxCDD, 1,2,3,6,7,8-	(16)	pg/L																												
BG20	HxCDD, 1,2,3,7,8,9-	(16)	pg/L																												
BG20	HxCDF, 1,2,3,4,7,8-	(16)	pg/L																												
BG20	HxCDF, 1,2,3,6,7,8-	(16)	pg/L																												
BG20	HxCDF, 1,2,3,7,8,9-	(16)	pg/L																												
BG20	HxCDF, 2,3,4,6,7,8-	(16)	pg/L																												
BG20	OCDD, 1,2,3,4,6,7,8,9-	(16)	pg/L																												
BG20	OCDF, 1,2,3,4,6,7,8,9-	(16)	pg/L																												
BG20	PeCDD, 1,2,3,7,8-	(16)	pg/L																												
BG20	PeCDF, 1,2,3,7,8-	(16)	pg/L																												
BG20	PeCDF, 2,3,4,7,8-	(16)	pg/L																												
BG20	TCDD, 2,3,7,8-	(16)	pg/L																												
BG20	TCDF, 2,3,7,8-	(16)	pg/L																												
BG20	Sum of Dioxin-Furan TEQs (WHO 2005;ND=0 SFE	16	pg/L																												
BG20	Sum of Dioxin-Furan TEQs (WHO 1998;ND=0 SFE	16	pg/L																												

Station Code	Analyte Name	1996-04	QA Code	1996-07	QA Code	1997-01	QA Code	1997-04	QA Code	1997-07	QA Code	1998-02	QA Code	1998-04	QA Code	1998-07	QA Code	1999-02	QA Code	1999-04	QA Code	1999-07	QA Code	2000-02	QA Code	2000-07	QA Code	2001-02	QA Code
BG20	Arsenic	1.21		2.08		3.65		2.07		2.3		3.35		< 0.06	R	2.31		1.25		1.48		2.2		1.55		1.91		2.06	
BG20	Cadmium	0.02		0.02		0.0546336		0.0284892		0.0263989		0.0499		0.0234333		0.0255		0.015957		0.0181158		0.0244675		0.0393088		0.0298455		0.03232223	
BG20	Chromium	4		5.2		26.131051		3.9922631		5.207422		20.61548		4.6230051		4.7122		3.1942797		80.366391		5.970859							
BG20	Copper	2.15		3.29		9.8639249		3.3738771		2.2185688		6.7213		3.1034667		2.8077		2.9029		3.0587		3.8423		3.4724652		3.3961881		4.61269946	
BG20	Lead	0.29		1.203		2.3485783		0.505707		0.6536128		1.75295		0.4196667		0.5001		0.5208		0.3633		0.8718		0.7386118		1.0711795		0.82879109	
BG20	Mercury	0.0031		0.0073		0.0377		0.00737		0.00559		0.0189		0.00064		0.0052		0.0049185		0.0034884		0.0099739		0.0022182		-	R	0.00167672	
BG20	Nickel	2.45		3.86		21.786302		4.6454563		4.1555907		11.76605		3.6864333		2.9038		5.3345		3.6699		5.1143		2.9898665		5.3421781		6.50282638	
BG20	Selenium	0.068		0.11		0.14		0.178		0.075		0.183		< 0.02	R	0.16		0.087		0.099		0.104		0.115		0.104		< 0.03	R
BG20	Silver	0.0023		0.003		NR	R	NR	R	NR	R	0.01945		0.0076667		0.0027		0.0069		0.0078		0.0062		0.0100638		0.0020628		< 0.000338466	
BG20	Zinc	2.57		5.1		18.209673		6.0856351		4.8543226		16.42985		4.8008667		4.788		3.1342		3.773		5.8019		4.3104002		5.5305713		7.02193826	
BG20	Cyanide																												
BG20	TCDD, 2,3,7,8-																												
BG20	Acenaphthene	-	R	293		239		< 99.3		< 99		-	R	1900		< 262		< 262		< 260		< 100				< 250			
BG20	Acenaphthylene	100		111		122		< 98.1		< 98		-	R	< 262		< 262		< 262		< 260		< 100				< 250			
BG20	Anthracene	24		35		< 99		< 99.1		< 99		-	R	< 262		< 262		< 262		< 260		< 100				< 250			
BG20	Benz(a)anthracene	162		740		650		630		720		448		-	R	-	R	640		< 260		760				1100			
BG20	Benzo(a)pyrene	< 20		89		< 100		< 100.06		< 100		< 262		320		< 262		< 262		< 260		< 100				< 250			
BG20	Benzo(b)fluoranthene	220		688		1128		750		940		< 262		610		570		360		460		1900				1200			
BG20	Benzo(g,h,i)perylene	< 19		< 19		< 99		< 99.2		< 99		620		< 262		< 262		130		< 260		< 100				< 250			
BG20	Benzo(k)fluoranthene	83		225		312		200		270		< 262		< 262		< 262		140		140		590				350			
BG20	Bis(2-ethylhexyl)phthalate																												
BG20	Butyl Benzyl Phthalate																												
BG20	Chrysene	221		770		751		600		580		614		470		460		310		320		1000				700			
BG20	Dibenz(a,h)anthracene	17		95		159		< 99.8		< 99.8		< 262		< 262		< 262		< 262		< 260		200				< 250			
BG20	Di-n-butyl Phthalate																												
BG20	Fluoranthene	890		2200		1216		2300		1760		1305		-	R	-	R	1090		1200		3000				2800			
BG20	Fluorene	472		560		519		440		180		-	R	-	R	420		230		< 260		400				< 250			
BG20	Hexachlorobenzene	-	R	40.6		29		21.1		17.6		-	R	31		109		-	R	15.4		20.4				65			
BG20	Indeno(1,2,3-c,d)pyrene	27		624		751		220		180		506		340		< 262		150		< 260		1000				< 250			
BG20	Naphthalene	680		2810		286		620		< 99.8		< 262		< 262		< 262		< 262		190		< 100				< 250			
BG20	Phenanthrene	760		1500		1459		1680		820		-	R	-	R	-	R	NR	R	960		1190				1040			
BG20	Pyrene	820		2020		1155		1720		1540		1047		-	R	-	R	750		1050		3160				2480			
BG20	Aldrin																									NR	R		
BG20	HCH, alpha-	-	R	136.9		174.1		220		74		-	R	-	R	45		32		35.1		31				NR	R		
BG20	HCH, beta-	-	R	16		17		18		59		-	R	16		28		20.5		6.8		43.7				NR	R		
BG20	HCH, gamma-	-	R	340		120		840		223		-	R	88.5		282.6		79.2		98.4		90				NR	R		
BG20	HCH, delta-	-	R	18		14		< 1		< 1		-	R	-	R	13		15.8		3.8		6.5				NR	R		
BG20	Chlordane, cis-	-	R	57		23.6		31		10.5		< 1		58		-	R	24		18		14				NR	R		
BG20	Chlordane, trans-	-	R	53		16.8		18		8.7		8.2		25		-	R	9		17		14.9				NR	R		
BG20	DDT(p,p')	-	R	26.7		349		57.2		14.3		37.1		-	R	38		252.6		36.9		33.6				NR	R		
BG20	DDE(p,p')	-	R	303.3		920		440		304		849		323		210		203		237		147				256			
BG20	DDD(p,p')	-	R	234		347		241		233		-	R	-	R	-	R	139		45		102				NR	R		
BG20	Dieldrin	-	R	64.5		275		320		380		201		2		155.3		89		61		53.4				NR	R		
BG20	Endosulfan I	< 1		1.8		< 1		< 1		< 1		< 1		< 1		1.8		35.8		< 1		6.8				NRT	R		
BG20	Endosulfan II	< 1		< 1		< 1		< 1		< 1		< 1		7.2		< 1		16.3		< 1		42.4				NRT	R		
BG20	Endosulfan Sulfate	< 1		120		179		200		146		7		1.8		195		98		79		121				NRT	R		
BG20	Endrin	-	R	< 1		< 1		< 1		< 1		< 1		-	R	< 1		19		< 1		3.7				NR	R		
BG20	Heptachlor	-	R	< 1		7.1		< 1		< 1		-	R	-	R	6		< 1		< 1		-	R			NR	R		
BG20	Heptachlor Epoxide	-	R	44.9		28.5		97		16.6		13		3.2		40.6		13		7		1.5				NR	R		
BG20	Sum of 40 PCBs (SFEI)	170.1		469.4		112.2		231.2		186.1		NRS	R	49.6		300.2		72.6		46		105.8				121.4			
BG20	Toxaphene																												
BG20	HpCDD, 1,2,3,4,6,7,8-																												
BG20	HpCDF, 1,2,3,4,6,7,8-																												
BG20	HpCDF, 1,2,3,4,7,8,9-																												
BG20	HxCDD, 1,2,3,4,7,8-																												
BG20	HxCDD, 1,2,3,6,7,8-																												
BG20	HxCDD, 1,2,3,7,8,9-																												
BG20	HxCDF, 1,2,3,4,7,8-																												
BG20	HxCDF, 1,2,3,6,7,8-																												
BG20	HxCDF, 1,2,3,7,8,9-																												
BG20	HxCDF, 2,3,4,6,7,8-																												
BG20	OCDD, 1,2,3,4,6,7,8,9-																												
BG20	OCDF, 1,2,3,4,6,7,8,9-																												
BG20	PeCDD, 1,2,3,7,8-																												
BG20	PeCDF, 1,2,3,7,8-																												
BG20	PeCDF, 2,3,4,7,8-																												
BG20	TCDD, 2,3,7,8-																												
BG20	TCDF, 2,3,7,8-																												
BG20	Sum of Dioxin-Furan TEQs (WHO 2005;ND=0 SFE																												
BG20	Sum of Dioxin-Furan TEQs (WHO 1998;ND=0 SFE																												

Station Code	Analyte Name	2001-08	QA Code	2002-07	QA Code	2003-08	QA Code	2004-07	QA Code	2005-08	QA Code	2006-08	QA Code	2007-08	QA Code	2008-07	QA Code	2009-08	QA Code	2010-08	QA Code	2011-09	QA Code	2013-08	QA Code
BG20	Arsenic	2.31		2.38		2.42		1.81		2.34		0.8		1.365		1.39		0.59		1.6		0.78		1.605	Q
BG20	Cadmium	0.0263559		0.0311541		-	R	0.02633		0.0251		0.0145506		0.017		0.022		< 0.003		0.017		< 0.0505	Q	0.0183	
BG20	Chromium																								
BG20	Copper	3.2996778		3.2151618		3.3760221		3.16083		3.2024		2.5343829		3.015		3.02		0.64		2.78		2.43	Q	2.75	
BG20	Lead	0.5428071		0.4981484		0.616864		0.83754		0.5164		0.4272635		0.3345		0.341		0.003		0.255		< 0.192	Q	0.453	
BG20	Mercury	0.0107798		0.0046856		0.00575		0.0081809		0.0069		0.0029716		0.0058		0.0055		0.00541		0.0028		0.00221	Q	0.0054	
BG20	Nickel	4.7466556		4.0708017		3.8803841		2.94307		3.2178		2.4103848		6.7		2.69		0.34		2.34	E	2.03	Q	2.97	
BG20	Selenium	0.11		0.133		0.063		0.453		0.093		0.085		0.062		0.126		< 0.04		0.056		< 0.07		0.154	
BG20	Silver	0.0007465		0.0014787		0.0025026		0.00557		0.0063		0.0018825		0.009		0.003		0.006		0.002		< 0.005	Q	< 0.012	
BG20	Zinc	4.7102144		3.9794795		4.9059704		3.73683		3.8248		2.2827353		0.63		3.35		< 0.08		1.94		< 5.56	Q	3.605	
BG20	Cyanide																			-	R	0.9		-	R
BG20	TCDD, 2,3,7,8-																	< 0.0386				< 0.04	Q		
BG20	Acenaphthene	< 500		240		154						255		571		443						429	Q		
BG20	Acenaphthylene	< 500		-	R	-	R					197.5		332		117						< 299	Q		
BG20	Anthracene	< 500		196.6		-	R					203.5		-	R	< 49.2	R					206			
BG20	Benz(a)anthracene	1000		335.3		597						274.5		267		240						< 85.6	Q		
BG20	Benzo(a)pyrene	< 500		547		821.5						718.5		372		366						< 118			
BG20	Benzo(b)fluoranthene	1000		620		900.5						580		366		344						151			
BG20	Benzo(g,h,i)perylene	< 500		705		1246.5						2635		469		475						< 56.9	Q		
BG20	Benzo(k)fluoranthene	< 500		410		545.6						286.5		213		215						80.5			
BG20	Bis(2-ethylhexyl)phthalate			-	R	-	R																		
BG20	Butyl Benzyl Phthalate			-	R	-	R																		
BG20	Chrysene	615		650		997						607.5		557		450						294			
BG20	Dibenz(a,h)anthracene	< 500		< 109.8		-	R					< 74.95		63.8		125						< 63.6			
BG20	Di-n-butyl Phthalate			-	R	-	R																		
BG20	Fluoranthene	2510		1720		2470						2680		2440		1500						1370	Q		
BG20	Fluorene	300		352		-	R					489.5		-	R	592						429			
BG20	Hexachlorobenzene	17.2		-	R	24								22.6		-	R	-	R			15	Q		
BG20	Indeno(1,2,3-c,d)pyrene	485		704.9		1064.9						824.5		340		498						< 59.7	Q		
BG20	Naphthalene	< 500		-	R	-	R					-	R	-	R	7610						8140	Q		
BG20	Phenanthrene	1265		1374		-	R					1745		2640		1800						1730	Q		
BG20	Pyrene	2000		1996		2605						5180		2120		1700						1030	Q		
BG20	Aldrin	NR	R			-	R							0.944		-	R	-	R			11			
BG20	HCH, alpha-	29		40.4		-	R							34.6		32		25				18			
BG20	HCH, beta-	50		9.17		5.589								14.1		14.4		17				< 19.7			
BG20	HCH, gamma-	73.4		51.2		104.69								23.4		20.5		24				-	R		
BG20	HCH, delta-	< 2		-	R	-	R							< 1		< 2.33		< 4.2				< 14.8			
BG20	Chlordane, cis-	26.7		8.08		16.04								11.6		8.24		19				< 53.1			
BG20	Chlordane, trans-	17.6		5.47		11.44								7.92		31.7		18				< 53.4			
BG20	DDT(p,p')	48		13.79		-	R							8.24		16.4		35				< 49.9			
BG20	DDE(p,p')	310		95.5		230.9								69.1		101		149				< 131			
BG20	DDD(p,p')	164		123		134.5								77.4		106		103				43			
BG20	Dieldrin	116.9		59.52		103.62								82.2		121		103				92			
BG20	Endosulfan I	NRT	R	-	R	-	R							-	R	-	R	138				< 172	Q		
BG20	Endosulfan II	< 2		9.71		-	R							14.1		-	R	-	R			< 87.4			
BG20	Endosulfan Sulfate	110		80.5		282.15								115		120		146				< 274	Q		
BG20	Endrin	< 2		1.87		-	R							< 1.97		-	R	-	R			< 14.9			
BG20	Heptachlor	< 2		0.872		-	R							-	R	-	R	3				< 4.8			
BG20	Heptachlor Epoxide	24		2.25		-	R							3.78		-	R	10				< 34.6			
BG20	Sum of 40 PCBs (SFEI)	138.2		90.68		125.135		98.919		NRS	R	66.997		83.87				70.246				42.263	Q		
BG20	Toxaphene																								
BG20	HpCDD, 1,2,3,4,6,7,8-																	0.325				< 0.152	Q		
BG20	HpCDF, 1,2,3,4,6,7,8-																	0.092				0.0392			
BG20	HpCDF, 1,2,3,4,7,8,9-																	< 0.0245				< 0.00553	Q		
BG20	HxCDD, 1,2,3,4,7,8-																	< 0.0343				< 0.0136			
BG20	HxCDD, 1,2,3,6,7,8-																	< 0.0343				< 0.0136			
BG20	HxCDD, 1,2,3,7,8,9-																	< 0.0343				0.0154	Q		
BG20	HxCDF, 1,2,3,4,7,8-																	-	R			< 0.0104	Q		
BG20	HxCDF, 1,2,3,6,7,8-																	0.023				< 0.00513			
BG20	HxCDF, 1,2,3,7,8,9-																	-	R			< 0.00513			
BG20	HxCDF, 2,3,4,6,7,8-																	-	R			-	R		
BG20	OCDD, 1,2,3,4,6,7,8,9-																	2.46				1.04	Q		
BG20	OCDF, 1,2,3,4,6,7,8,9-																	0.166				< 0.0873	Q		
BG20	PeCDD, 1,2,3,7,8-																	< 0.0417				-	R		
BG20	PeCDF, 1,2,3,7,8-																	< 0.0219				-	R		
BG20	PeCDF, 2,3,4,7,8-																	-	R			< 0.0188	Q		
BG20	TCDD, 2,3,7,8-																	< 0.0386				< 0.04	Q		
BG20	TCDF, 2,3,7,8-																	-	R			< 0.0109			
BG20	Sum of Dioxin-Furan TEQs (WHO 2005;ND=0 SFE																	0.007258				0.00224			
BG20	Sum of Dioxin-Furan TEQs (WHO 1998;ND=0 SFE																	0.006733				0.00204			

Appendix 4 – Summary of CTR Results from RMP S&T Monitoring for the periods of 1993-2001, 2002-2003, 2004-2014, and 2015

Key:
Values shown are the maximum of the detected values or if all values were ND, the minimum of the MDLs, as required by the SIP.
< indicates all results non-detect for the date range, the subsequent number is the lowest MDL
One table for each station

StationCode	CTR #	AnalyteName	units	1993-2001	2002-2003	2004-2014	2015	1993-2015
BA30	1	Antimony	ug/L		1.3		0.22	1.3
BA30	2	Arsenic	ug/L	4.93	5.05	3.87		5.05
BA30	3	Beryllium	ug/L		0.107		< 0.033	0.107
BA30	4	Cadmium	ug/L	0.171	0.084	0.144		0.171
BA30	5	Chromium	ug/L	14.740			3.613	14.740
BA30	6	Copper	ug/L	8.585	4.408	6.345	3.4	8.585
BA30	7	Lead	ug/L	4.180	0.543	1.21		4.180
BA30	8	Mercury	ug/L	0.068	0.004	0.016		0.068
BA30	9	Nickel	ug/L	15.787	4.367	7.23		15.787
BA30	10	Selenium	ug/L	0.628	0.213	0.367	0.157	0.628
BA30	11	Silver	ug/L	0.119	0.021	0.022		0.119
BA30	12	Thallium	ug/L		0.16		0.007	0.16
BA30	13	Zinc	ug/L	21.255	3.985	6.225		21.255
BA30	14	Cyanide	ug/L	< NMDL	< 0.4	0.6	< 0.9	0.6
BA30	15	Asbestos, Total	mf/L					
BA30	16	TCDD, 2,3,7,8-	pg/L		0.023	0.042		0.042
BA30	17	Acrolein	ug/L		< 0.5		< 1.7	< 0.5
BA30	18	Acrylonitrile	ug/L		< 0.02		< 0.69	< 0.02
BA30	19	Benzene	ug/L		< 0.05		< 0.18	< 0.05
BA30	20	Bromoform	ug/L		< 0.5		< 0.15	< 0.15
BA30	21	Carbon tetrachloride	ug/L		0.07		< 0.16	0.07
BA30	22	Chlorobenzene	ug/L		< 0.5		< 0.18	< 0.18
BA30	23	Chlorodibromomethane	ug/L		0.057			0.057
BA30	24	Chloroethane	ug/L		< 0.5		< 0.38	< 0.38
BA30	25	Chloroethyl vinyl ether, 2-	ug/L		< 0.5		< 0.28	< 0.28
BA30	26	Chloroform	ug/L		< 0.5		< 0.19	< 0.19
BA30	27	Bromodichloromethane	ug/L		< 0.05		< 0.16	< 0.05
BA30	28	Dichloroethane, 1,1-	ug/L		< 0.05		< 0.19	< 0.05
BA30	29	Dichloroethane, 1,2-	ug/L		0.04		< 0.18	0.04
BA30	30	Dichloroethylene, 1,1-	ug/L		< 0.5		< 0.21	< 0.21
BA30	31	Dichloropropane, 1,2-	ug/L		< 0.05		< 0.18	< 0.05
BA30	32	Dichloropropene, cis 1,3-	ug/L		< 0.5		< 0.16	< 0.16
BA30	33	Ethylbenzene	ug/L		< 0.5		< 0.26	< 0.26
BA30	34	Bromomethane	ug/L		< 0.5		< 0.3	< 0.3
BA30	35	Chloromethane	ug/L		< 0.5		< 0.3	< 0.3
BA30	36	Methylene Chloride	ug/L		< 0.5		< 0.4	< 0.4
BA30	37	Tetrachloroethane, 1,1,2,2-	ug/L		< 0.05		< 0.1	< 0.05
BA30	38	Tetrachloroethylene	ug/L		< 0.05		< 0.19	< 0.05
BA30	39	Toluene	ug/L		< 0.3		< 0.19	< 0.19
BA30	40	Dichloroethylene, trans 1,2-	ug/L		< 0.5		< 0.22	< 0.22
BA30	41	Trichloroethane, 1,1,1-	ug/L		< 0.5		< 0.19	< 0.19
BA30	42	Trichloroethane, 1,1,2-	ug/L		< 0.05		< 0.16	< 0.05
BA30	43	Trichloroethylene	ug/L		< 0.5		< 0.2	< 0.2
BA30	44	Vinyl Chloride	ug/L		< 0.5		< 0.25	< 0.25
BA30	45	Chlorophenol, 2-	ug/L		< 1.2		< 0.7	< 0.7
BA30	46	Dichlorophenol, 2,4-	ug/L		< 1.3		< 0.9	< 0.9
BA30	47	Dimethylphenol, 2,4-	ug/L		< 1.3		< 0.8	< 0.8
BA30	48	Dinitro-2-methylphenol, 4,6-	ug/L		< 1.2		< 0.6	< 0.6
BA30	49	Dinitrophenol, 2,4-	ug/L		< 0.7		< 0.9	< 0.7
BA30	50	Nitrophenol, 2-	ug/L		< 1.3		< 0.8	< 0.8
BA30	51	Nitrophenol, 4-	ug/L		< 1.6		< 0.5	< 0.5
BA30	52	Chloro-3-methylphenol, 4-	ug/L		< 1.1		< 0.8	< 0.8
BA30	53	Pentachlorophenol	ug/L		< 1		< 0.6	< 0.6
BA30	54	Phenol	ug/L		< 1.3		< 0.5	< 0.5
BA30	55	Trichlorophenol, 2,4,6-	ug/L		< 1.3		< 0.97	< 0.97
BA30	56	Acenaphthene	ug/L	0.003	0.001	0.001	< 0.02	0.003
BA30	57	Acenaphthylene	ug/L	0.001	0.001	0.001	< 0.02	0.001
BA30	58	Anthracene	ug/L	0.002	< 0.21	0.001	< 0.01	0.002
BA30	59	Benzidine	ug/L		< 0.0003		< 5	< 0.0003
BA30	60	Benz(a)anthracene	ug/L	0.011	0.002	0.004	< 0.02	0.011
BA30	61	Benzo(a)pyrene	ug/L	0.045	0.005	0.013	< 0.02	0.045
BA30	62	Benzo(b)fluoranthene	ug/L	0.057	0.004	0.008	< 0.02	0.057
BA30	63	Benzo(g,h,i)perylene	ug/L	0.015	0.006	0.015	< 0.03	0.015
BA30	64	Benzo(k)fluoranthene	ug/L	0.021	0.21	0.007	< 0.01	0.21
BA30	65	Bis(2-chloroethoxy)methane	ug/L		< 0.3		< 0.9	< 0.3
BA30	66	Bis(2-chloroethyl)ether	ug/L		< 0.3		< 0.7	< 0.3
BA30	67	Bis(2-chloroisopropyl) ether	ug/L				< 0.6	< 0.6
BA30	68	Bis(2-ethylhexyl)phthalate	ug/L		15.2 **		< 0.6	15.2 **
BA30	69	Bromophenyl phenyl ether, 4-	ug/L		< 0.23		< 0.7	< 0.23
BA30	70	Butyl Benzyl Phthalate	ug/L		< 0.52		< 0.7	< 0.52

BA30	71	Chloronaphthalene, 2-	ug/L		< 0.3		< 0.9	< 0.3
BA30	72	Chlorophenyl phenyl ether, 4-	ug/L		< 0.3		< 0.9	< 0.3
BA30	73	Chrysene	ug/L	0.022	0.002	0.006	< 0.02	0.022
BA30	74	Dibenz(a,h)anthracene	ug/L	0.009	< 0.23	0.001	< 0.03	0.009
BA30	75	Dichlorobenzene, 1,2-	ug/L		< 0.3		< 0.27	< 0.27
BA30	76	Dichlorobenzene, 1,3-	ug/L		< 0.3		< 0.18	< 0.18
BA30	77	Dichlorobenzene, 1,4-	ug/L		< 0.3		< 0.18	< 0.18
BA30	78	Dichlorobenzidine, 3,3'-	ug/L		< 0.0002		< 5	< 0.0002
BA30	79	Diethyl phthalate	ug/L		0.3		< 0.7	0.3
BA30	80	Dimethyl Phthalate	ug/L		< 0.24		< 0.9	< 0.24
BA30	81	Di-n-butyl Phthalate	ug/L		2.2		< 0.6	2.2
BA30	82	Dinitrotoluene, 2,4-	ug/L		< 0.27		< 0.7	< 0.27
BA30	83	Dinitrotoluene, 2,6-	ug/L		< 0.29		< 0.8	< 0.29
BA30	84	Di-n-octyl phthalate	ug/L		< 0.38		< 0.5	< 0.38
BA30	85	Diphenylhydrazine, 1,2-	ug/L		0.005		< 0.7	0.005
BA30	86	Fluoranthene	ug/L	0.039	< 0.24	0.011	< 0.03	0.039
BA30	87	Fluorene	ug/L	0.005	< 0.3	0.001	< 0.01	0.005
BA30	88	Hexachlorobenzene	ug/L	0.0005	< 0.17	R	< 0.7	0.0005
BA30	89	Hexachlorobutadiene	ug/L		< 0.3		< 0.6	< 0.3
BA30	90	Hexachlorocyclopentadiene	ug/L		< 0.31		< 0.7	< 0.31
BA30	91	Hexachloroethane	ug/L		< 0.2		< 0.6	< 0.2
BA30	92	Indeno(1,2,3-c,d)pyrene	ug/L	0.078	0.006	0.012	< 0.02	0.078
BA30	93	Isophorone	ug/L		< 0.3		< 0.93	< 0.3
BA30	94	Naphthalene	ug/L	0.002	0.005	0.007	< 0.02	0.007
BA30	95	Nitrobenzene	ug/L		< 0.25		< 0.9	< 0.25
BA30	96	Nitrosodimethylamine, N-	ug/L		< 0.3		< 0.5	< 0.3
BA30	97	Nitrosodi-n-propylamine, N-	ug/L		< 0.0002		< 0.8	< 0.0002
BA30	98	Nitrosodiphenylamine, N-	ug/L		< 0.001		< 0.5	< 0.001
BA30	99	Phenanthrene	ug/L	0.014	0.003	0.005	< 0.02	0.014
BA30	100	Pyrene	ug/L	0.056	0.007	0.015	< 0.02	0.056
BA30	101	Trichlorobenzene, 1,2,4-	ug/L				< 0.6	< 0.6
BA30	102	Aldrin	ug/L	R	R	0.00002	< 0.004	0.00002
BA30	103	HCH, alpha-	ug/L	0.001	R	0.0001	< 0.005	0.001
BA30	104	HCH, beta-	ug/L	0.001	0.0001	0.0001	< 0.004	0.001
BA30	105	HCH, gamma-	ug/L	0.002	0.0001	0.00004	< 0.004	0.002
BA30	106	HCH, delta-	ug/L	0.0001	R	< 0.00000713	< 0.004	0.0001
BA30	107	Chlordane, cis-	ug/L	0.0002	0.00003	< 0.0000179	< 0.004	0.0002
BA30	107	Chlordane, trans-	ug/L	0.0001	0.00002	0.0001	< 0.004	0.0001
BA30	108	DDT(p,p')	ug/L	0.0002	R	< 0.0000132	< 0.004	0.0002
BA30	109	DDE(p,p')	ug/L	0.001	0.0001	0.0001	< 0.003	0.001
BA30	110	DDD(p,p')	ug/L	0.001	0.0001	0.0001	< 0.004	0.001
BA30	111	Dieldrin	ug/L	0.0003	0.0001	0.0001	< 0.004	0.0003
BA30	112	Endosulfan I	ug/L	0.00003	R	< 0.00014	< 0.004	0.00003
BA30	113	Endosulfan II	ug/L	0.00005	R	< 0.0000602	< 0.005	0.00005
BA30	114	Endosulfan Sulfate	ug/L	0.0001	0.00002	0.0001	< 0.005	0.0001
BA30	115	Endrin	ug/L	0.0001	R	< 0.000017	< 0.005	0.0001
BA30	116	Endrin Aldehyde	ug/L				< 0.005	< 0.005
BA30	117	Heptachlor	ug/L	0.00002	R	< 0.0000048	< 0.005	0.00002
BA30	118	Heptachlor Epoxide	ug/L	0.0002	R	0.00003	< 0.004	0.0002
BA30	119	PCB AROCLOR 1016	ug/L				< 0.05	< 0.05
BA30	119	Sum of 40 PCBs (SFEI)	ug/L	0.004	0.0005	0.001		0.004
BA30	120	PCB AROCLOR 1221	ug/L				< 0.05	< 0.05
BA30	121	PCB AROCLOR 1232	ug/L				< 0.05	< 0.05
BA30	122	PCB AROCLOR 1242	ug/L				< 0.04	< 0.04
BA30	123	PCB AROCLOR 1248	ug/L				< 0.05	< 0.05
BA30	124	PCB AROCLOR 1254	ug/L				< 0.05	< 0.05
BA30	125	PCB AROCLOR 1260	ug/L				< 0.05	< 0.05
BA30	126	Toxaphene	ug/L	< 0.00000048675			< 0.3	< 0.00000048675
BA30		Sum of Dioxin-Furan TEQs (WHO 1998;ND=0 SFEI)	TEQs		0.259	0.079		0.259
BA30		Sum of Dioxin-Furan TEQs (WHO 2005;ND=0 SFEI)	TEQs		0.237	0.080		0.237
BA30		Tributyltin as Sn	ug/L		0.003			0.003
		N		2 - 25	1 - 5	1 - 9	1	1 - 25

Values shown are the maximum of the detected values or if all values were ND, the minimum of the MDLs, as required by the SIP.
** = concentration over 10x lower in split sample analyzed by another lab
Note that the 2002 – 2003 dioxin results shown are ~3x greater than the 2004 - 2014 data.
The second highest dioxin results from 2002 -2003 are reported below.

Sum of Dioxin-Furan TEQs (WHO 2005;ND=0 SFEI)	0.073
Sum of Dioxin-Furan TEQs (WHO 1998;ND=0 SFEI)	0.081

StationCode	CTR #	AnalyteName	units	1993-2001	2002-2003	2004-2014	2015	1993-2015
BC10	1	Antimony	ug/L		1.8		0.145	1.8
BC10	2	Arsenic	ug/L	2.46	1.87	2.01		2.46
BC10	3	Beryllium	ug/L		0.215		< 0.037	0.215
BC10	4	Cadmium	ug/L	0.127	0.068	0.117		0.127
BC10	5	Chromium	ug/L	4.4			1.44	4.4
BC10	6	Copper	ug/L	2.549	1.585	2.33	1.47	2.549
BC10	7	Lead	ug/L	0.804	0.221	0.384		0.804
BC10	8	Mercury	ug/L	0.009	0.002	0.006		0.009
BC10	9	Nickel	ug/L	3.729	1.513	2.73		3.729
BC10	10	Selenium	ug/L	0.39	0.049	0.22	< 0.07	0.39
BC10	11	Silver	ug/L	0.052	0.014	0.012		0.052
BC10	12	Thallium	ug/L		0.023		< 0.003	0.023
BC10	13	Zinc	ug/L	5.092	1.269	2.355		5.092
BC10	14	Cyanide	ug/L	< NMDL	< 0.4	0.52	< 0.9	0.52
BC10	15	Asbestos, Total	mf/L					
BC10	16	TCDD, 2,3,7,8-	pg/L		0.006	0.027		0.027
BC10	17	Acrolein	ug/L		< 0.5		< 1.7	< 0.5
BC10	18	Acrylonitrile	ug/L		0.03		< 0.69	0.03
BC10	19	Benzene	ug/L		< 0.05		< 0.18	< 0.05
BC10	20	Bromoform	ug/L		< 0.5		< 0.15	< 0.15
BC10	21	Carbon tetrachloride	ug/L		0.06		< 0.16	0.06
BC10	22	Chlorobenzene	ug/L		< 0.5		< 0.18	< 0.18
BC10	23	Chlorodibromomethane	ug/L		< 0.05			< 0.05
BC10	24	Chloroethane	ug/L				< 0.38	< 0.38
BC10	25	Chloroethyl vinyl ether, 2-	ug/L		< 0.5		< 0.28	< 0.28
BC10	26	Chloroform	ug/L		< 0.5		< 0.19	< 0.19
BC10	27	Bromodichloromethane	ug/L		< 0.05		< 0.16	< 0.05
BC10	28	Dichloroethane, 1,1-	ug/L		< 0.05		< 0.19	< 0.05
BC10	29	Dichloroethane, 1,2-	ug/L		0.04		< 0.18	0.04
BC10	30	Dichloroethylene, 1,1-	ug/L		< 0.5		< 0.21	< 0.21
BC10	31	Dichloropropane, 1,2-	ug/L		< 0.05		< 0.18	< 0.05
BC10	32	Dichloropropene, cis 1,3-	ug/L		< 0.5		< 0.16	< 0.16
BC10	33	Ethylbenzene	ug/L		< 0.5		< 0.26	< 0.26
BC10	34	Bromomethane	ug/L		< 0.5		< 0.3	< 0.3
BC10	35	Chloromethane	ug/L		< 0.5		< 0.3	< 0.3
BC10	36	Methylene Chloride	ug/L		22		< 0.4	22
BC10	37	Tetrachloroethane, 1,1,2,2-	ug/L		< 0.05		< 0.1	< 0.05
BC10	38	Tetrachloroethylene	ug/L		< 0.05		< 0.19	< 0.05
BC10	39	Toluene	ug/L		< 0.3		< 0.19	< 0.19
BC10	40	Dichloroethylene, trans 1,2-	ug/L		< 0.5		< 0.22	< 0.22
BC10	41	Trichloroethane, 1,1,1-	ug/L		< 0.5		< 0.19	< 0.19
BC10	42	Trichloroethane, 1,1,2-	ug/L		< 0.05		< 0.16	< 0.05
BC10	43	Trichloroethylene	ug/L		< 0.5		< 0.2	< 0.2
BC10	44	Vinyl Chloride	ug/L		< 0.5		< 0.25	< 0.25
BC10	45	Chlorophenol, 2-	ug/L		< 1.2		< 0.7	< 0.7
BC10	46	Dichlorophenol, 2,4-	ug/L		< 1.3		< 0.9	< 0.9
BC10	47	Dimethylphenol, 2,4-	ug/L		< 1.3		< 0.8	< 0.8
BC10	48	Dinitro-2-methylphenol, 4,6-	ug/L		< 1.2		< 0.6	< 0.6
BC10	49	Dinitrophenol, 2,4-	ug/L		< 0.7		< 0.9	< 0.7
BC10	50	Nitrophenol, 2-	ug/L		< 1.3		< 0.8	< 0.8
BC10	51	Nitrophenol, 4-	ug/L		< 1.6		< 0.5	< 0.5
BC10	52	Chloro-3-methylphenol, 4-	ug/L		< 1.1		< 0.8	< 0.8
BC10	53	Pentachlorophenol	ug/L		< 1		< 0.6	< 0.6
BC10	54	Phenol	ug/L		< 1.3		< 0.5	< 0.5
BC10	55	Trichlorophenol, 2,4,6-	ug/L		< 1.3		< 0.97	< 0.97
BC10	56	Acenaphthene	ug/L	0.002	0.001	0.002	< 0.02	0.002
BC10	57	Acenaphthylene	ug/L	0.001	< 0.3	0.0005	< 0.02	0.001
BC10	58	Anthracene	ug/L	0.0005	< 0.21	0.001	< 0.01	0.001
BC10	59	Benzidine	ug/L		< 0.0003		< 5	< 0.0003
BC10	60	Benz(a)anthracene	ug/L	0.005	0.001	0.001	< 0.02	0.005
BC10	61	Benzo(a)pyrene	ug/L	0.0003	0.001	0.002	< 0.02	0.002
BC10	62	Benzo(b)fluoranthene	ug/L	0.005	0.001	0.001	< 0.02	0.005
BC10	63	Benzo(g,h,i)perylene	ug/L	0.003	0.001	0.002	< 0.03	0.003
BC10	64	Benzo(k)fluoranthene	ug/L	0.002	0.001	0.001	< 0.01	0.002
BC10	65	Bis(2-chloroethoxy)methane	ug/L		< 0.3		< 0.9	< 0.3
BC10	66	Bis(2-chloroethyl)ether	ug/L		< 0.3		< 0.7	< 0.3
BC10	67	Bis(2-chloroisopropyl) ether	ug/L				< 0.6	< 0.6

BC10	68	Bis(2-ethylhexyl)phthalate	ug/L		26.8 *		< 0.6	26.8 *
BC10	69	Bromophenyl phenyl ether, 4-	ug/L		< 0.23		< 0.7	< 0.23
BC10	70	Butyl Benzyl Phthalate	ug/L		< 0.5		< 0.7	< 0.5
BC10	71	Chloronaphthalene, 2-	ug/L		< 0.3		< 0.9	< 0.3
BC10	72	Chlorophenyl phenyl ether, 4-	ug/L		< 0.3		< 0.9	< 0.3
BC10	73	Chrysene	ug/L	0.002	0.002	0.001	< 0.02	0.002
BC10	74	Dibenz(a,h)anthracene	ug/L	0.001	< 0.23	0.0002	< 0.03	0.001
BC10	75	Dichlorobenzene, 1,2-	ug/L		< 0.3		< 0.27	< 0.27
BC10	76	Dichlorobenzene, 1,3-	ug/L		< 0.3		< 0.18	< 0.18
BC10	77	Dichlorobenzene, 1,4-	ug/L		< 0.3		< 0.18	< 0.18
BC10	78	Dichlorobenzidine, 3,3'-	ug/L		< 0.0002		< 5	< 0.0002
BC10	79	Diethyl phthalate	ug/L		< 0.2		< 0.7	< 0.2
BC10	80	Dimethyl Phthalate	ug/L		< 0.2		< 0.9	< 0.2
BC10	81	Di-n-butyl Phthalate	ug/L		< 0.5		< 0.6	< 0.5
BC10	82	Dinitrotoluene, 2,4-	ug/L		< 0.27		< 0.7	< 0.27
BC10	83	Dinitrotoluene, 2,6-	ug/L		< 0.29		< 0.8	< 0.29
BC10	84	Di-n-octyl phthalate	ug/L		< 0.38		< 0.5	< 0.38
BC10	85	Diphenylhydrazine, 1,2-	ug/L		0.004		< 0.7	0.004
BC10	86	Fluoranthene	ug/L	0.011	0.004	0.003	< 0.03	0.011
BC10	87	Fluorene	ug/L	0.002	0.001	0.001	< 0.01	0.002
BC10	88	Hexachlorobenzene	ug/L	0.00002	< 0.17	0.00001	< 0.7	0.00002
BC10	89	Hexachlorobutadiene	ug/L		< 0.3		< 0.6	< 0.3
BC10	90	Hexachlorocyclopentadiene	ug/L		< 0.3		< 0.7	< 0.3
BC10	91	Hexachloroethane	ug/L		< 0.2		< 0.6	< 0.2
BC10	92	Indeno(1,2,3-c,d)pyrene	ug/L	0.004	0.001	0.002	< 0.02	0.004
BC10	93	Isophorone	ug/L		< 0.3		< 0.93	< 0.3
BC10	94	Naphthalene	ug/L	0.002	< 0.3	0.009	< 0.02	0.009
BC10	95	Nitrobenzene	ug/L		< 0.25		< 0.9	< 0.25
BC10	96	Nitrosodimethylamine, N-	ug/L		< 0.3		< 0.5	< 0.3
BC10	97	Nitrosodi-n-propylamine, N-	ug/L		< 0.0002		< 0.8	< 0.0002
BC10	98	Nitrosodiphenylamine, N-	ug/L		< 0.001		< 0.5	< 0.001
BC10	99	Phenanthrene	ug/L	0.006	0.003	0.004	< 0.02	0.006
BC10	100	Pyrene	ug/L	0.019	0.004	0.003	< 0.02	0.019
BC10	101	Trichlorobenzene, 1,2,4-	ug/L		< 0.3		< 0.6	< 0.3
BC10	102	Aldrin	ug/L	R	R	< 0.00000849	< 0.004	< 0.00000849
BC10	103	HCH, alpha-	ug/L	0.0005	R	0.0001	< 0.005	0.0005
BC10	104	HCH, beta-	ug/L	0.0004	0.0001	0.0002	< 0.004	0.0004
BC10	105	HCH, gamma-	ug/L	0.001	0.0001	0.0001	< 0.004	0.001
BC10	106	HCH, delta-	ug/L	0.0001	0.000002	< 0.00000331	< 0.004	0.0001
BC10	107	Chlordane, cis-	ug/L	0.0001	0.000007	< 0.0000161	< 0.004	0.0001
BC10	107	Chlordane, trans-	ug/L	0.00004	0.000006	< 0.0000168	< 0.004	0.00004
BC10	108	DDT(p,p')	ug/L	0.0002	R	< 0.0000182	< 0.004	0.0002
BC10	109	DDE(p,p')	ug/L	0.001	0.00003	0.00004	< 0.003	0.001
BC10	110	DDD(p,p')	ug/L	0.0003	0.00006	0.00004	< 0.004	0.0003
BC10	111	Dieldrin	ug/L	0.0003	0.00003	0.00004	< 0.004	0.0003
BC10	112	Endosulfan I	ug/L	0.00003	R	0.0001	< 0.004	0.0001
BC10	113	Endosulfan II	ug/L	0.0001	R	0.0001	< 0.005	0.0001
BC10	114	Endosulfan Sulfate	ug/L	0.0001	0.00001	< 0.0000268	< 0.005	0.0001
BC10	115	Endrin	ug/L	0.00004	0.000002	< 0.0000144	< 0.005	0.00004
BC10	116	Endrin Aldehyde	ug/L				< 0.005	< 0.005
BC10	117	Heptachlor	ug/L	0.00002	R	< 0.00000552	< 0.005	0.00002
BC10	118	Heptachlor Epoxide	ug/L	0.0001	0.000003	0.00002	< 0.004	0.0001
BC10	119	PCB AROCLOR 1016	ug/L				< 0.05	< 0.05
BC10	119	Sum of 40 PCBs (SFEI)	ug/L	0.001	0.0003	0.0004		0.001
BC10	120	PCB AROCLOR 1221	ug/L				< 0.05	< 0.05
BC10	121	PCB AROCLOR 1232	ug/L				< 0.05	< 0.05
BC10	122	PCB AROCLOR 1242	ug/L				< 0.04	< 0.04
BC10	123	PCB AROCLOR 1248	ug/L				< 0.05	< 0.05
BC10	124	PCB AROCLOR 1254	ug/L				< 0.05	< 0.05
BC10	125	PCB AROCLOR 1260	ug/L				< 0.05	< 0.05
BC10	126	Toxaphene	ug/L	< 0.000000817			< 0.3	< 0.000000817
BC10		Sum of Dioxin-Furan TEQs (WHO 1998;ND=0 SFEI)	TEQs		0.072	0.037		0.072
BC10		Sum of Dioxin-Furan TEQs (WHO 2005;ND=0 SFEI)	TEQs		0.066	0.038		0.066
BC10		Tributyltin as Sn	ug/L		0.002			0.002
		N		2 - 25	1 - 5	1 - 9	1	1 - 25

Values shown are the maximum of the detected values or if all values were ND, the minimum of the MDLs, as required by the SIP.
* = not detected (over 10x lower) in split sample analyzed by another lab

StationCode	CTR #	AnalyteName	units	1993-2001	2002-2003	2004-2014	2015	1993-2015
BG20	1	Antimony	ug/L		0.337		< 0.3	0.337
BG20	2	Arsenic	ug/L	3.65	2.42	2.34		3.65
BG20	3	Beryllium	ug/L		0.045		0.011	0.045
BG20	4	Cadmium	ug/L	0.319	0.031	0.026		0.319
BG20	5	Chromium	ug/L	80.366			1.423	80.366
BG20	6	Copper	ug/L	9.864	3.376	3.202	2.46	9.864
BG20	7	Lead	ug/L	2.349	0.617	0.838		2.349
BG20	8	Mercury	ug/L	0.053	0.006	0.008		0.053
BG20	9	Nickel	ug/L	21.786	4.071	6.7		21.786
BG20	10	Selenium	ug/L				0.077	0.077
BG20	11	Silver	ug/L					
BG20	12	Thallium	ug/L		0.039		0.008	0.039
BG20	13	Zinc	ug/L	18.210	4.906	3.825		18.210
BG20	14	Cyanide	ug/L	< 1	0.5	0.9	< 0.9	0.9
BG20	15	Asbestos, Total	mf/L				< 1	< 1
BG20	16	TCDD, 2,3,7,8-	pg/L		0.006	< 0.0386		0.006
BG20	17	Acrolein	ug/L		< 0.5		< 1.7	< 0.5
BG20	18	Acrylonitrile	ug/L		< 0.02		< 0.69	< 0.02
BG20	19	Benzene	ug/L		< 0.05		< 0.18	< 0.05
BG20	20	Bromoform	ug/L		< 0.5		< 0.15	< 0.15
BG20	21	Carbon tetrachloride	ug/L		0.06			0.06
BG20	22	Chlorobenzene	ug/L		< 0.5		< 0.18	< 0.18
BG20	23	Chlorodibromomethane	ug/L		< 0.05			< 0.05
BG20	24	Chloroethane	ug/L		< 0.5		< 0.38	< 0.38
BG20	25	Chloroethyl vinyl ether, 2-	ug/L		< 0.5		< 0.28	< 0.28
BG20	26	Chloroform	ug/L		< 0.5		< 0.19	< 0.19
BG20	27	Bromodichloromethane	ug/L		< 0.05		< 0.16	< 0.05
BG20	28	Dichloroethane, 1,1-	ug/L		< 0.05		< 0.19	< 0.05
BG20	29	Dichloroethane, 1,2-	ug/L		0.04		< 0.18	0.04
BG20	30	Dichloroethylene, 1,1-	ug/L		< 0.5		< 0.21	< 0.21
BG20	31	Dichloropropane, 1,2-	ug/L		< 0.05		< 0.18	< 0.05
BG20	32	Dichloropropene, cis 1,3-	ug/L		< 0.5		< 0.16	< 0.16
BG20	33	Ethylbenzene	ug/L		< 0.5		< 0.26	< 0.26
BG20	34	Bromomethane	ug/L		< 0.5		< 0.3	< 0.3
BG20	35	Chloromethane	ug/L		< 0.5		< 0.3	< 0.3
BG20	36	Methylene Chloride	ug/L		< 0.5		< 0.4	< 0.4
BG20	37	Tetrachloroethane, 1,1,2,2-	ug/L		< 0.05		< 0.1	< 0.05
BG20	38	Tetrachloroethylene	ug/L		< 0.05		< 0.19	< 0.05
BG20	39	Toluene	ug/L		< 0.3		< 0.19	< 0.19
BG20	40	Dichloroethylene, trans 1,2-	ug/L		< 0.5			< 0.5
BG20	41	Trichloroethane, 1,1,1-	ug/L		< 0.5		< 0.19	< 0.19
BG20	42	Trichloroethane, 1,1,2-	ug/L		< 0.05		< 0.16	< 0.05
BG20	43	Trichloroethylene	ug/L		< 0.5		< 0.2	< 0.2
BG20	44	Vinyl Chloride	ug/L		< 0.5		< 0.25	< 0.25
BG20	45	Chlorophenol, 2-	ug/L		< 1.2		< 0.7	< 0.7
BG20	46	Dichlorophenol, 2,4-	ug/L		< 1.3			< 1.3
BG20	47	Dimethylphenol, 2,4-	ug/L		< 1.3		< 0.8	< 0.8
BG20	48	Dinitro-2-methylphenol, 4,6-	ug/L		< 1.2		< 0.6	< 0.6
BG20	49	Dinitrophenol, 2,4-	ug/L		< 0.7		< 0.9	< 0.7
BG20	50	Nitrophenol, 2-	ug/L		< 1.3		< 0.8	< 0.8
BG20	51	Nitrophenol, 4-	ug/L		< 1.6		< 0.5	< 0.5
BG20	52	Chloro-3-methylphenol, 4-	ug/L		< 1.1		< 0.8	< 0.8
BG20	53	Pentachlorophenol	ug/L		< 0.5		< 0.6	< 0.5
BG20	54	Phenol	ug/L		< 1.3		< 0.5	< 0.5
BG20	55	Trichlorophenol, 2,4,6-	ug/L		< 1.3		< 0.97	< 0.97
BG20	56	Acenaphthene	ug/L	0.002	0.0002	0.001	< 0.02	0.002
BG20	57	Acenaphthylene	ug/L	0.0001	< 0.3	0.0003	< 0.02	0.0003
BG20	58	Anthracene	ug/L	0.0002	0.0002	0.0002	< 0.01	0.0002
BG20	59	Benzidine	ug/L		< 0.0003		< 5	< 0.0003
BG20	60	Benz(a)anthracene	ug/L	0.001	0.001	0.0003	< 0.02	0.001
BG20	61	Benzo(a)pyrene	ug/L	0.0003	0.001	0.001	< 0.02	0.001
BG20	62	Benzo(b)fluoranthene	ug/L	0.002	0.001	0.001	< 0.02	0.002
BG20	63	Benzo(g,h,i)perylene	ug/L	0.001	0.001	0.003	< 0.03	0.003
BG20	64	Benzo(k)fluoranthene	ug/L	0.001	0.001	0.0003	< 0.01	0.001
BG20	65	Bis(2-chloroethoxy)methane	ug/L		< 0.3		< 0.9	< 0.3
BG20	66	Bis(2-chloroethyl)ether	ug/L		< 0.3		< 0.7	< 0.3
BG20	67	Bis(2-chloroisopropyl) ether	ug/L				< 0.6	< 0.6

BG20	68	Bis(2-ethylhexyl)phthalate	ug/L		26.8 *		< 0.6	26.8 *
BG20	69	Bromophenyl phenyl ether, 4-	ug/L		< 0.23		< 0.7	< 0.23
BG20	70	Butyl Benzyl Phthalate	ug/L		< 0.5			< 0.5
BG20	71	Chloronaphthalene, 2-	ug/L		< 0.3		< 0.9	< 0.3
BG20	72	Chlorophenyl phenyl ether, 4-	ug/L		< 0.3		< 0.9	< 0.3
BG20	73	Chrysene	ug/L	0.001	0.001	0.001	< 0.02	0.001
BG20	74	Dibenz(a,h)anthracene	ug/L	0.001	< 0.23	0.0001	< 0.03	0.001
BG20	75	Dichlorobenzene, 1,2-	ug/L		< 0.3		< 0.27	< 0.27
BG20	76	Dichlorobenzene, 1,3-	ug/L		< 0.3		< 0.18	< 0.18
BG20	77	Dichlorobenzene, 1,4-	ug/L		< 0.3		< 0.18	< 0.18
BG20	78	Dichlorobenzidine, 3,3'-	ug/L		< 0.0002		< 5	< 0.0002
BG20	79	Diethyl phthalate	ug/L		< 0.2		< 0.7	< 0.2
BG20	80	Dimethyl Phthalate	ug/L		< 0.2		< 0.9	< 0.2
BG20	81	Di-n-butyl Phthalate	ug/L		1.72		< 0.6	1.72
BG20	82	Dinitrotoluene, 2,4-	ug/L		< 0.27		< 0.7	< 0.27
BG20	83	Dinitrotoluene, 2,6-	ug/L		< 0.29		< 0.8	< 0.29
BG20	84	Di-n-octyl phthalate	ug/L		< 0.38		< 0.5	< 0.38
BG20	85	Diphenylhydrazine, 1,2-	ug/L		0.009		< 0.7	0.009
BG20	86	Fluoranthene	ug/L	0.003	0.002	0.003	< 0.03	0.003
BG20	87	Fluorene	ug/L	0.001	0.0004	0.001	< 0.01	0.001
BG20	88	Hexachlorobenzene	ug/L	0.0001	0.00002	0.00002	< 0.7	0.0001
BG20	89	Hexachlorobutadiene	ug/L		< 0.3		< 0.6	< 0.3
BG20	90	Hexachlorocyclopentadiene	ug/L		< 0.3		< 0.7	< 0.3
BG20	91	Hexachloroethane	ug/L		< 0.2		< 0.6	< 0.2
BG20	92	Indeno(1,2,3-c,d)pyrene	ug/L	0.001	0.001	0.001	< 0.02	0.001
BG20	93	Isophorone	ug/L		< 0.3		< 0.93	< 0.3
BG20	94	Naphthalene	ug/L	0.003	< 0.3	0.008	< 0.02	0.008
BG20	95	Nitrobenzene	ug/L		< 0.25		< 0.9	< 0.25
BG20	96	Nitrosodimethylamine, N-	ug/L		< 0.3		< 0.5	< 0.3
BG20	97	Nitrosodi-n-propylamine, N-	ug/L		< 0.0002		< 0.8	< 0.0002
BG20	98	Nitrosodiphenylamine, N-	ug/L		< 0.001		< 0.5	< 0.001
BG20	99	Phenanthrene	ug/L	0.002	0.001	0.003	< 0.02	0.003
BG20	100	Pyrene	ug/L	0.003	0.003	0.005	< 0.02	0.005
BG20	101	Trichlorobenzene, 1,2,4-	ug/L		< 0.3		< 0.6	< 0.3
BG20	102	Aldrin	ug/L	R	R	0.00001	< 0.004	0.00001
BG20	103	HCH, alpha-	ug/L	0.0003	0.00004	0.00003	< 0.005	0.0003
BG20	104	HCH, beta-	ug/L	0.0001	0.00001	0.00002	< 0.004	0.0001
BG20	105	HCH, gamma-	ug/L	0.001	0.0001	0.00002	< 0.004	0.001
BG20	106	HCH, delta-	ug/L	0.00004	R	< 0.000001	< 0.004	0.00004
BG20	107	Chlordane, cis-	ug/L	0.0002	0.00002	0.00002	< 0.004	0.0002
BG20	107	Chlordane, trans-	ug/L	0.0001	0.00001	0.00003	< 0.004	0.0001
BG20	108	DDT(p,p')	ug/L	0.0003	0.00001	0.00004	< 0.004	0.0003
BG20	109	DDE(p,p')	ug/L	0.001	0.0002	0.0001	< 0.003	0.001
BG20	110	DDD(p,p')	ug/L	0.0003	0.0001	0.0001	< 0.004	0.0003
BG20	111	Dieldrin	ug/L	0.0004	0.0001	0.0001		0.0004
BG20	112	Endosulfan I	ug/L				< 0.004	< 0.004
BG20	113	Endosulfan II	ug/L	0.00004	0.00001	0.00001	< 0.005	0.00004
BG20	114	Endosulfan Sulfate	ug/L	0.0002	0.0003	0.0001	< 0.005	0.0003
BG20	115	Endrin	ug/L	0.00002	0.000002	< 0.00000197	< 0.005	0.00002
BG20	116	Endrin Aldehyde	ug/L				< 0.005	< 0.005
BG20	117	Heptachlor	ug/L	0.00001	0.000001	0.000003	< 0.005	0.00001
BG20	118	Heptachlor Epoxide	ug/L	0.0001	0.000002	0.00001	< 0.004	0.0001
BG20	119	PCB AROCLOR 1016	ug/L				< 0.05	< 0.05
BG20	119	Sum of 40 PCBs (SFEI)	ug/L	0.001	0.0001	0.0001		0.001
BG20	120	PCB AROCLOR 1221	ug/L				< 0.05	< 0.05
BG20	121	PCB AROCLOR 1232	ug/L				< 0.05	< 0.05
BG20	122	PCB AROCLOR 1242	ug/L				< 0.04	< 0.04
BG20	123	PCB AROCLOR 1248	ug/L				< 0.05	< 0.05
BG20	124	PCB AROCLOR 1254	ug/L				< 0.05	< 0.05
BG20	125	PCB AROCLOR 1260	ug/L				< 0.05	< 0.05
BG20	126	Toxaphene	ug/L	0			< 0.3	0
BG20		Sum of Dioxin-Furan TEQs (WHO 1998;ND=0 SFEI)	TEQs		0.044	0.007		0.044
BG20		Sum of Dioxin-Furan TEQs (WHO 2005;ND=0 SFEI)	TEQs		0.042	0.007		0.042
BG20		Tributyltin as Sn	ug/L		0.002			0.002
		N		4 - 29	1 - 6	1 - 9	1	1 - 29

Values shown are the maximum of the detected values or if all values were ND, the minimum of the MDLs, as required by the SIP.
* = not detected (over 10x lower) in split sample analyzed by another lab