Flushing Industrial Park, Parcels 1, 2 and 3

Tax Block 5066, Lots 1001 to 1169 (formerly Lot 9002), Lots 1201 to 1238 (formerly Lots 1 and 100), Lots 1301 to 1579 (formerly Lot 9001), and Lots 1701 to 1932 (formerly Lot 9100), 2001 to 2263 (formerly Lot 9101), and 3001 to 3248 (formerly Lot 9102)

QUEENS, NEW YORK

Periodic Review Report

August 30, 2018 - August 30, 2019

NYSDEC BCP Site Numbers:
C241051 (Parcel 1), C241078 (Parcel 2) and C241079 (Parcel 3)

AKRF Project Number: 30141

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SEPTEMBER 2019

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P.E. CERTIFICATION

I, Michelle Lapin, am currently a registered professional engineer licensed by the State of New York. I had primary direct responsibility for implementation of the 2014 draft Revised Site Management Plan protocols, and I certify that the documentation of site management activities is accurately presented in the 2018-2019 Periodic Review Report for Flushing Industrial Park, Parcel 1 (BCP Site No. C241051), Parcel 2 (BCP Site No. C241078), and Parcel 3 (BCP Site No. C241079).

For each institutional or engineering control identified for the site, I certify that all of the following statements are true:

a) The institutional control and engineering control employed at this site is unchanged from the date the control was put in place, or last approved by the New York State Department of Environmental Conservation (NYSDEC) Division of Environmental Remediation (DER), with any exceptions cited in this Periodic Review Report;
b) Nothing has occurred that would impair the ability of such control to protect public health and the environment;
c) Nothing has occurred the would constitute a violation or failure to comply with any Site Management Plan for this control; and
d) Access to the site will continue to be provided to NYSDEC to evaluate the remedy, including access to evaluate the continued maintenance of this control.

9-27-19

NYS Professional Engineer #073934-1 Date

Signature

EXECUTIVE SUMMARY

This Periodic Review Report (PRR) documents pertinent post-remediation activities between August 30, 2018 and August 30, 2019 at: Flushing Industrial Park (Eastern), Parcel 1 (BCP Site No. C241051); Flushing Industrial Park (Western), Parcel 2 (BCP Site No. C241078); and Flushing Industrial Park (Western Waterfront), Parcel 3 (BCP Site No. C241079). These three Parcels comprise approximately 13.3 acres located on the northwestern corner of College Point Boulevard and 40th Road in Flushing, Queens, New York (collectively, the "Property").

Historically, the Property contained several transformers, gasoline fueling facilities, an equipment repair area and a paint storage house. Consolidated Edison (the previous Property owner), historical maps and NYSDEC records indicated underground storage tanks (USTs) and aboveground storage tanks (ASTs) storing gasoline, diesel, insulating oil, kerosene, spent motor oil and heating oil. Multiple investigations were performed on the Property between 1989 and 2005 to identify and further evaluate soil and groundwater contamination. The soil and groundwater contamination appeared to be related to a combination of sources, including: spills/leaks from historical storage and repair of equipment [including numerous electrical transformers which likely contained polychlorinated biphenyls (PCBs)]; spills/leaks from ASTs, USTs and fueling operations; transport of contaminants by the tidally influenced water table; and some components in historical fill.

Remedial activities performed in 2006 and 2007 included the removal of contaminated materials and structures (including soil, light non-aqueous phase liquid (LNAPL), ASTs and USTs, drainage structures and geophysical anomalies, as needed). The remedy also included installation of a site cover (consisting of concrete, asphalt or 2 feet of clean fill) across the site and installation of a vapor mitigation system (consisting of a vapor barrier and sub-slab depressurization system) beneath the portion of the Parcel 2 structure with retail use on the ground floor. An Environmental Easement was filed to prevent future exposure to any residual contamination remaining. In December 2007, Final Engineering Reports (FERs) and Site Management Plans (SMPs) were submitted and NYSDEC granted Certificates of Completion for Parcels 1, 2 and 3.

The SMPs were revised in April 2013 to reflect NYSDEC-approved modifications to the groundwater monitoring (reducing sampling parameters to PCBs only and reducing frequency to twice per year). On April 30, 2014, NYSDEC approved AKRF's request to permanently convert the active SSDS to passive operation and discontinue SSDS effluent sampling; the SMP for Parcel 2 was revised accordingly and a draft was submitted for NYSDEC approval in May 2014. NYSDEC subsequently approved the reduction of groundwater sampling from a semi-annual to annual basis in November 2015. One round of annual groundwater monitoring was conducted in April 2016 prior to construction activities conducted between approximately November 2016 and May 2018 that included installation of underground utilities, the construction of the Sky View Parc (SVP) West Entrance Pavilion on the southern portions of Parcels 1 and 2, and the construction of the waterfront esplanade with upland connections on Parcel 3. Due to the extensive ground disturbance required during this construction, many of the groundwater monitoring wells were either destroyed and/or covered with staged construction materials, leaving only five accessible monitoring wells. Therefore, groundwater sampling was not conducted in 2017 (with the approval from NYSDEC).

Following the completion of construction in May 2018, NYSDEC approved the discontinuation of sampling of nine well locations (MW-30R4, MW-33R2, MW-35R, MW-36R2, MW-39R, MW-40R2, MW-41R2, MW-42R, and MW-43R3) that had shown no, or at most sporadic, detections of PCBs above the Class GA Standard, but required annual sampling of six newly repaired or replaced wells (MW-28R5, MW-31R2, MW-32R2, MW-34R3, MW-37R2, and MW-38R2) and one existing well (MW-29R5) in 2018 and annually thereafter.

Between May 21 and June 4, 2018, groundwater samples were collected from the five newly installed and two existing wells. The analytical data from the May 2018 sampling indicated generally decreasing PCB levels compared to the previous sampling. Based on the May/June 2018 groundwater analytical results, AKRF requested discontinuation of groundwater monitoring in April 2019, with the remaining wells being decommissioned in accordance with NYSDEC CP-43 protocol. .

On May 10, 2019, NYSDEC approved AKRF's request to discontinue groundwater sampling. On May 21, 2019, the remainder of the post-remediation monitoring wells, including MW-28R5, MW-29R5, MW-31R2, MW-32R2, MW-34R3, MW-37R2, and MW-38R2, were abandoned in accordance with NYSDEC CP-43 protocol. The May 2019 NYSDEC approval to discontinue groundwater sampling and abandonment of the remainder of the post-remediation monitoring wells was documented in the Revised June 2019 SMPs, which are currently under review by NYSDEC.

No soil disturbance activities were performed on the Property during the reporting period. If subsurface activities are performed in the future, AKRF will perform oversight and monitoring in accordance with the NYSDEC-approved SMPs.

The SMPs, with the NYSDEC-approved modification related to SSDS operation, the discontinuation of groundwater sampling, and abandonment of the remainder of the post-remediation monitoring wells, were complied with for the period from August 30, 2018 through August 30, 2019. Periodic inspections, including annual site-wide and site cover inspections, were performed to document conditions at the Property. The remedy remains effective and protective of human health and the environment with continued implementation of the Revised SMPs, including the annual site-wide and site cover inspections, and the institutional and engineering control certifications, which will be documented in future PRRs.

1.0 INTRODUCTION

This Periodic Review Report (PRR) documents pertinent post-remediation activities between August 30, 2018 and August 30, 2019 at: Flushing Industrial Park (Eastern), Parcel 1 (BCP Site No. C241051); Flushing Industrial Park (Western), Parcel 2 (BCP Site No. C241078); and Flushing Industrial Park (Western Waterfront), Parcel 3 (BCP Site No. C241079). These three Parcels comprise approximately 13.3 acres located on the northwestern corner of College Point Boulevard and 40th Road in Flushing, Queens, New York (collectively, the Property). The Property location is shown on Figure 1.

Remedial activities were completed on Parcels 1, 2 and 3 between February 2006 and December 2007 under the New York State Department of Environmental Conservation's (NYSDEC) Brownfield Cleanup Program (BCP). Brownfield Cleanup Agreements (BCAs) were executed in December 2004 and amended BCAs were executed in June 2005, December 2006, April 2007 and November 2007. Remedial work was performed in accordance with NYSDEC-approved work plans. The remediation was documented in three Parcel-specific Final Engineering Reports (FERs) dated December 2007, and on-going site management requirements were specified in three Site Management Plans (SMPs), submitted with the FERs. NYSDEC issued Certificates of Completion for Parcels 1, 2 and 3 in December 2007. The SMPs were subsequently revised in April 2013 to reflect an NYSDEC-approved modification to groundwater monitoring. On April 30, 2014, NYSDEC approved allowing permanent operation as a passive SSDS and discontinuing SSDS effluent sampling, as outlined in Section 5.0 of this PRR. Updated procedures for operating and maintaining the sub-slab depressurization system were documented in the May 2014 SMP. On November 10, 2015, NYSDEC approved the reduction of groundwater sampling from a semi-annual to annual basis; the reduction in sampling was documented in the Revised SMPs. Due to construction on Parcels 2 and 3 between 2016 and 2018, AKRF submitted a request to the NYSDEC to delay groundwater sampling in a letter dated April 24, 2017. The NYSDEC approved AKRF's request to delay groundwater sampling until April 2018 in a letter dated May 9, 2017. However, since construction was still occurring, AKRF submitted a request on April 23, 2018 to further delay the sampling (until the Summer of 2018) and eliminate sampling of nine wells (MW-30R4, MW-33R2, MW-35R, MW-36R2, MW-39R, MW-40R2, MW-41R2, MW-42R, and 43R3) that have shown no, or at most sporadic, detections of PCBs above the Class GA Standard and sample six newly repaired or replaced wells (MW-28R5, MW-31R2, MW-32R2, MW-34R3, MW-37R2, and MW-38R2) and one existing well (MW-29R5). On May 4, 2018, NYSDEC approved this request, but indicated that any remaining wells not needed for monitoring could be decommissioned in accordance with NYSDEC Commissioners Policy 43.

Between May 21 and June 4, 2018, groundwater samples were collected from the seven wells (MW-28R5, MW-29R5, MW-31R2, MW-32R2, MW-34R3, MW-37R2, and MW-38R2). The analytical data from the May 2018 sampling indicated generally decreasing PCB levels compared to the previous sampling. In January 2007, soon after the majority of remedial excavation was complete, PCBs above the Class GA Standard were found in 12 of 16 wells; exceedances were detected in only 4 wells in May/June 2018. Based on the May/June 2018 groundwater analytical results, which revealed continued decreasing levels of residual PCB contamination with at most minor exceedances of the NYSDEC Class GA (Drinking Water) Ambient Water Quality Standard for total PCBs, AKRF requested discontinuation of groundwater monitoring in April 2019, with the remaining wells being decommissioned in accordance with NYSDEC CP-43 protocol. On May 10, 2019, NYSDEC approved AKRF's request to discontinue groundwater sampling. On May 21, 2019, the remainder of the post-remediation monitoring wells, including MW-28R5, MW-29R5, MW-31R2, MW-32R2, MW-34R3, MW-37R2, and MW-38R2, were abandoned in accordance with NYSDEC CP-43 protocol.

The purpose of this PRR is to document ongoing site management activities associated with Engineering and Institutional Controls for the Property, and to certify that those controls are being implemented in accordance with the SMPs. The SMPs provide detailed descriptions of all procedures required to manage known and potential residual contamination.

2.0 BACKGROUND

2.1 SITE DESCRIPTION

The Property is bounded by Roosevelt Avenue to the north, College Point Boulevard to the east, 40th Road to the south, and the Flushing River to the west (see Figure 2). The Property is located in the County of Queens, New York and at the time of the FER, the Property was identified as Block 5066, Lots 1, 100, 9001, 9002 and 9100. The Property is currently identified as Block 5066, Lots 1001 to 1169, 1201 to 1238, 1301 to 1579, and 9100.

In 2009, Lots 1 and 100 (the ground lots) were converted to condominium Lots 1201 to 1205, the complex boundaries of which include discontinuous and shared areas. In addition, residential condominium Lots 1001 through 1169 (former Lot 9002—Tower 3) were created in 2009 for the residential towers located above the retail structures. In 2010, residential condominium Lots 1301 through 1579 (former Lot 9001—Towers 1 and 2) were created. In 2015, Lot 1206 was subdivided into Lots 1206 to 1238. Lot 9100 remains for Towers 6, 7, and 8 atop the western retail building.

The following ownership changes were recorded for the Property during this reporting period:

- In January 2019, Lot 1225 was transferred to Fortune Road LLC.
- In March 2019, Lot 1218 was transferred to LC Property Group LLC.
- In April 2019, Lot 1222 was transferred to Empire Starlight, LLC.

Documentation of ownership changes was provided to the NYSDEC, copies of which are provided in Appendix A.

A site plan showing general development is provided as Figure 2. Occupancy of portions of the retail and residential spaces began in 2010. The eastern two-thirds of the development consist of open or actively-vented garage space on the ground (lowest) level. The retail and parking structures cover the majority of Parcels 1 and 2, with residential towers (potentially including office space and/or community facilities) above these structures, starting at the fifth floor. Towers 6, 7, and 8 (designated as Lot 9100) were constructed under the current zoning over the western retail building on Parcel 2. This development also includes construction of the Sky View Parc (SVP) West Entrance Pavilion on the southern portions of Parcels 1 and 2. Construction of the waterfront esplanade, which includes both landscaped and paved areas with upland connections on Parcel 3, was completed in the Summer of 2018.

2.2 REMEDIAL INVESTIGATION FINDINGS

2.2.1 Geology and Hydrogeology

Results from the remedial and geotechnical investigations conducted prior to remediation indicated that the top 6 to 16 feet of soil generally consisted of miscellaneous fill. The fill was variable, ranging from silty clay to sand with anthropogenic materials including brick, ash and cinders. The fill was underlain at some locations by a layer of organic silt, clay and peat up to about 30 feet thick near the Flushing River, and thinning out towards the

east, ending about 200 to 300 feet from College Point Boulevard. A stiff silty clay/clayey silt stratum was occasionally encountered beneath the soft clayey soils. Occasional layers of sand, gravel, cobbles and boulders were interspersed in these strata. Below the fill and organic deposits was a layer of sand 30 to 60 feet thick, consisting of fine to coarse sand with varying percentages of silt and gravel. A stiff clay or silty clay stratum was encountered beneath the sand at a depth of 35 to 70 feet below grade (elevations -30 to -60 feet Queens Borough Datum).

Groundwater studies performed on the Property and in surrounding areas before remediation indicated a general groundwater flow direction towards the west and northwest, which appeared to be tidally influenced. Groundwater in the southern portion of the Property was locally influenced by a New York City Department of Environmental Protection (NYCDEP) sewer pump house located in this area. As part of remediation, interlocking bulkhead sheeting was installed at the western boundary of Parcel 3 and along segments of the western and southern Property boundaries. This sheeting appears to be limiting the groundwater flow in this area of the Property, based on measurements in monitoring wells installed before and after remediation excavation. Post-remediation water levels continue to fluctuate, due in part to tidal influence, rain events, and the interlocking sheeting.

2.2.2 Nature and Extent of Contamination Prior to Remediation

Historically, the Property contained several transformers, gasoline fueling facilities, an equipment repair area and a paint storage house. Consolidated Edison (a previous Property owner) records, historical maps and NYSDEC records indicated underground storage tanks (USTs) and aboveground storage tanks (ASTs) storing gasoline, diesel, insulating oil, kerosene, spent motor oil and heating oil. Multiple investigations were performed on the Property between 1989 and 2005 to identify and further evaluate soil and groundwater contamination.

Pre-Remedial Soil Contamination

Subsurface investigations identified the most significant contaminant of concern in soil to be polychlorinated biphenyls (PCBs); however, elevated levels of volatile organic compounds (VOCs) (including benzene, sec-butylbenzene, chlorobenzene, ethylbenzene, naphthalene, and xylenes); semivolatile organic compounds (SVOCs); pesticides (including delta-BHC, dieldrin, 4,4-DDD, 4,4-DDE, 4,4-DDT, endosulfan sulfate, endrin); and metals (including arsenic, cadmium, lead and mercury) were also found. The laboratory analytical data revealed that elevated PCB concentrations were generally more prevalent in Parcels 2 and 3. In general, PCB concentrations were highest at or above the water table; however, one area on the south side of Parcels 2 and 3 was identified with concentrations of PCBs above 50 parts per million (ppm) extending below the water table.

Pre-Remedial Groundwater Contamination

PCB-containing light non-aqueous phase liquid (LNAPL) was identified floating on the water table in three monitoring wells on Parcels 2 and 3. Elevated levels of VOCs, SVOCs, PCBs, pesticides, and metals (arsenic, barium, cadmium, iron, lead, magnesium, manganese, selenium and sodium) were found in the groundwater samples.

The NYSDEC Class GA Ambient Water Quality Standards were exceeded in groundwater samples for total and dissolved PCBs, pesticides (aldrin, alpha-chlordane, dieldrin, 4,4-DDD and endrin), VOCs (acetone, benzene, chlorobenzene, toluene and vinyl chloride),

SVOCs (1,3-dichlorobenzene), and total and dissolved TAL metals (arsenic, barium, cadmium, iron, lead, magnesium, manganese, selenium and sodium). The elevated concentrations of PCBs, pesticides, VOCs and SVOCs were identified in isolated areas, but the Class GA standard exceedances for metals were identified across the Property.

2.3 SITE REMEDIATION

The remediation was conducted in accordance with the NYSDEC-approved Interim Remedial Measure Work Plan (IRMWP) and Remedial Action Work Plans (RAWPs), including all addenda and modifications.

2.3.1 Contaminated Materials Removal

Based on the results of initial subsurface investigations, soil Site-Specific Action Levels (SSALs) were established for the protection of human health and the environment, considering the contemplated use and anticipated institutional and engineering controls. The SSALs were as follows:

Soil Site-Specific Action Levels

Parameter	Criterion
Individual Volatile Organic Compounds (VOCs)	TAGM 4046 RSCO
Total Semivolatile Organic Compounds (SVOCs)	100 ppm
Total Polychlorinated Biphenyls (PCBs)	10 ppm
Individual Pesticides	1 ppm or TAGM 4046 RSCO, if higher
Arsenic	24 ppm
Cadmium	10 ppm
Lead	500 ppm
Mercury	4 ppm
Silver	100 ppm
Cyanide	Hazardous Waste Reactivity Criterion

Notes: TAGM 4046 RSCO – Technical and Administrative Guidance Memorandum #4046 Recommended Soil Cleanup Objectives, January 24, 1994
ppm – parts per million

Contaminated materials removal included: the excavation of soil with concentrations greater than the established SSALs and/or TAGM 4046 RSCOs (the regulatory standard used at the time) above (and to the extent practicable, below) the water table; removal of LNAPL to the extent practicable; removal of ASTs and USTs; investigation and removal of drainage structures; and investigation of geophysical anomalies. Excavation and off-site disposal of contaminated soil was performed from February 2006 to November 2007.

2.3.2 Engineering Controls

Engineering controls were installed at the Property as part of the remedial action to prevent exposure to residual subsurface contamination. The engineering controls, which consist of a site cover and a sub-slab vapor mitigation system, are described in more detail below.

Site Cover

Following soil removal activities, a composite cover system was installed over the Property to prevent direct exposure to underlying soil. At the time that the FERs were submitted, the site cover consisted of concrete or asphalt.

Vapor Mitigation System

No vapor barrier was required for Parcels 1 and 3. The remedial action required a vapor mitigation system only for the portion of the development with retail use on the lowest level (i.e., the western retail building located on Parcel 2). Exposure to potential residual vapors there was minimized by the sub-slab vapor mitigation system installed beneath the building. The mitigation system consisted of a network of PVC sub-slab depressurization piping placed beneath a vapor barrier with in-line fans (no longer active) venting extracted vapors above the roof of the parking garage. During subsequent building construction in 2008-2009, repairs were made to the geomembrane with Liquid Boot and an additional layer of waterproofing manufactured by Laurenco Systems was added (above the original geomembrane, but beneath the building slab). During the 2016 reporting period, the SSDS riser pipes were extended into newly constructed pipe enclosures atop the northern and southern stairwell bulkheads, which were equipped with louvers to vent the passive SSDS system.

2.3.3 Institutional Controls

Institutional controls incorporated into the remedy include an environmental easement to prohibit certain on-site uses, and ensure implementation of the Parcel-specific SMPs during future site use. These institutional controls are described in more detail below.

Environmental Easement

Environmental easements were recorded in December 2007 for each of the three Parcels comprising the Property. The property deed and all subsequent instruments of conveyance will contain language indicating that the Property is subject to this environmental easement. The environmental easement includes the following site use restrictions:

- Single family housing, vegetable gardens and farming are prohibited;
- A school or day care facility is prohibited;
- Use of the site groundwater is prohibited without treatment rendering it safe for its intended purpose;
- All future activities that will disturb Residual Management Zones (i.e., penetrate through the site cover into the underlying soil) are prohibited unless they are conducted in accordance with the SMPs;
- The Property may be used for Restricted Residential use, as defined in 6 NYCRR 375-1.8(g)(2)(ii), provided that the long-term Engineering and Institutional Controls included in the SMPs remain in use;
- The Property may not be used for a more restricted level of use, such as unrestricted residential use, nor may the parking areas be converted to other enclosed purposes; and
- The easement requires annual submission of a written certification that: (1) controls are unchanged from the previous certification or that any changes to the

controls were approved by the NYSDEC and NYSDOH; and, (2) nothing has occurred that impairs the ability of the controls to protect public health and environment or that constitute a violation or failure to comply with the SMPs.

Site Management Plan

The environmental easement requires compliance with three SMPs that were prepared to describe procedures and protocols for post-remediation management of the three Parcels. The SMPs each include four plans: (1) an Engineering and Institutional Control Plan for implementation and management of EC/ICs; (2) a Monitoring Plan for implementation of Site Monitoring; (3) an Operation and Maintenance Plan for implementation of the remedial cover, sub-slab venting system (Parcel 2 only), and the groundwater monitoring system; and (4) a Site Management Reporting Plan for submittal of data, information, recommendations, and certifications to NYSDEC. The Engineering and Institutional Control Plan portion of each SMP includes detailed procedures for handling residual on-site contamination during future soil disturbance activities.

In February 2013, NYSDEC approved a request for reduction in the list of groundwater analytical parameters (to total PCBs only) and in the sampling frequency (from quarterly to semi-annually). The change in groundwater sampling protocol was detailed in Revised SMPs, dated April 2013, which included changes to the SMP text, Quality Assurance Project Plan (QAPP) appendix, and Figure 13 - Post-Remediation Monitoring Well Plan. As requested by NYSDEC in their April 8, 2013 approval letter, the changed portions of the documents were submitted to NYSDEC and the document repository at the Queens Public Library. AKRF's request to permanently convert the active SSDS to passive operation and discontinue SSDS effluent sampling was approved by NYSDEC, in consultation with NYSDOH, on April 30, 2014. Accordingly, a draft Revised SMP for Parcel 2 was submitted for NYSDEC approval in May 2014. The NYSDEC approved the reduction of groundwater sampling from a semi-annual to annual basis in a telephone conversation with AKRF on November 10, 2015. Due to construction on Parcels 2 and 3 between 2016 and 2017, AKRF submitted a request to the NYSDEC to delay groundwater sampling until April 2018 in a letter dated April 24, 2017. The NYSDEC approved this request in a letter dated May 9, 2017. However, since construction was still occurring, AKRF submitted a request on April 23, 2018 to further delay the sampling (until Summer 2018) and to eliminate sampling of nine wells (MW-30R4, MW-33R2, MW-35R, MW-36R2, MW-39R, MW-40R2, MW-41R2, MW-42R, and 43R3) that have shown no or at most sporadic detections of PCBs above the Class GA Standard and sample six newly installed and one existing well on an annual basis (MW-28R5, M 29R5, MW-31R, MW-32R, MW-34R2, MW-37R, and MW38R). On May 4, 2018, NYSDEC approved this request but indicated that any unneeded wells should be decommissioned in accordance with NYSDEC Commissioners Policy 43. Based on the May/June 2018 groundwater analytical results, which revealed continued decreasing levels of residual PCB contamination with at most minor exceedances of the NYSDEC Class GA (Drinking Water) Ambient Water Quality Standard for total PCBs, AKRF requested discontinuation of groundwater monitoring in April 2019 with the remaining wells being decommissioned in accordance with NYSDEC CP-43 protocol. On May 10, 2019, NYSDEC approved AKRF's request to discontinue groundwater sampling. On May 21, 2019, the remainder of the post-remediation monitoring wells, including MW-28R5, MW-29R5, MW-31R2, MW-32R2, MW-34R3, MW-37R2, and MW-38R2, were abandoned in accordance with NYSDEC CP-43 protocol. The May 2019 NYSDEC approval to discontinue groundwater

sampling and abandonment of the remainder of the post-remediation monitoring wells was documented in the Revised June 2019 SMPs, which are currently under review by NYSDEC. Once Revised SMPs are finalized, they will be placed in the document repository.

3.0 CONSTRUCTION ACTIVITIES

The SMP established the following three Residual Management Zones (RMZs):

- RMZ A refers to previously placed backfill documented to meet SSALs (see Section 2.3.1). Excavated material from this zone that did not exhibit evidence of contamination was reused on-site as subsurface fill beneath the restored cover without additional sampling.
- RMZ B is material where previous endpoint sampling indicated that the material met the SSALs. Whenever this material was excavated, additional analyses were performed to confirm that the material met SSALs prior to its reuse on-site as backfill. If the excavated material exhibited evidence of contamination (i.e., odor, staining, or elevated photoionization detector (PID) readings) or if analytical results indicated exceedance of the SSALs, then the material was disposed of off-site.
- RMZ C is the material where endpoint sampling indicated concentrations greater than the SSALs. Excavated soil in the vicinity of this known contamination was disposed of off-site.

No soil disturbance activities were performed on the Property during the reporting period.

3.1 PERMITTING AND APPROVALS

Certain Property lots (not lots that are elevated above the ground) have an "E" designation for hazardous materials, which requires New York City Office of Environmental Remediation (NYCOER) approval prior to NYC Department of Buildings (NYCDOB) issuance of certain types of permits and Certificates of Occupancy. Note that prior to 2010, "E" designation issues were managed by the NYC Department of Environmental Protection (NYCDEP). NYCDEP acknowledged in a letter dated August 4, 2008 that remediation and the accompanying institutional and engineering controls under the BCP adequately addressed the "E" designation requirements and allowed for all permits to be issued by NYCDOB up through Temporary Certificates of Occupancy for non-residential spaces (note all ground level spaces are non-residential). The August 4, 2008 NYCDEP correspondence was amended by NYCOER on January 21, 2010 with a Notice of No Objection to retail Temporary Certificates of Occupancy. NYCOER approved the issuance of residential Certificates of Occupancy in Notices of Satisfaction dated May 27, 2010 and October 22, 2010. Copies of pertinent NYCDEP and NYCOER correspondence were provided as part of previous document submittals, including the 2010 Site Management Report, dated March 2011. Building permits were issued during the 2017 reporting period related to the garage cover, green roof, and newly constructed SSDS pipe enclosures on Parcels 1 and 2. No permits or approvals were issued related to certificate of occupancy changes for this reporting period.

3.2 SOIL DISTURBANCE

No soil disturbance activities were performed on the Property during the 2018-2019 reporting period.

3.3 HEALTH AND SAFETY MONITORING

The Health and Safety Plan (HASP), a component of each SMP, includes requirements for personnel training, protocols for work zone air monitoring and community air monitoring, designated personal protection equipment, and decontamination procedures. The HASP also includes a community air monitoring plan (CAMP), which establishes protocols for VOC and particulate air monitoring to be conducted at the Property perimeter if work zone perimeter concentrations approach the applicable community action levels.

Because there was no soil disturbance during the reporting period, no air monitoring was performed. During the monitoring well abandonment activities in May 2019, field personnel followed the HASP protocol using modified Level D PPE, including nitrile gloves and safety glasses.

3.4 INVESTIGATION-DERIVED WASTE DISPOSAL

No investigation-derived waste was generated during the 2018-2019 reporting period.

3.5 SEDIMENT AND EROSION CONTROL MEASURES

Because there was no soil disturbance during the reporting period, no erosion control measures were necessary during the reporting period and none were noted during the annual inspection on September 4, 2019.

4.0 SITE COVER OPERATION AND MAINTENANCE

Exposure to residual contaminated soil/fill is prevented by an engineered composite cover system. This composite cover system is composed of asphalt or concrete.

4.1 SITE COVER ALTERATIONS

No alterations were made to the site cover during the reporting period. The site cover in place at the time of the FER submission consisted of concrete building slabs and pile caps, and asphalt. During the 2017-2018 reporting period, the site cover was modified with asphalt repairs on Parcel 3 prior to the esplanade construction and additional concrete placed for the SVP West Entrance Pavilion foundation slab. In the future, the cover system may also include landscaped areas with a minimum of two feet of clean fill (meeting the lower of the SCOs for Residential Use or Protection of Groundwater, or for which specific approval would be given by the NYSDEC).

4.2 SITE COVER INSPECTION

AKRF inspected the entire site cover (within and outside of the buildings) on September 4, 2019. The inspection, consisting of observing the asphalt/concrete for holes, cracking, or other signs of damage, found all that areas were intact, with minimal signs of cracking and damage on Parcels 1 through 3 with no apparent breaches observed of the site cover or areas with greater than 25% of the surface cracked/damaged. In some areas, observation of the cover was obscured by parked vehicles or equipment; however, based on information from Property owner representatives and AKRF's observation of the Property throughout the year, the cover was expected to be essentially intact in these areas. The site cover inspection form and photographs taken during the September 4, 2019 inspection are provided in Appendix B. The site cover conditions observed during the inspection are depicted on Figure 3.

5.0 VAPOR MITIGATION SYSTEM OPERATION AND MAINTENANCE

5.1 VAPOR MITIGATION BACKGROUND

The vapor mitigation system design and installation oversight were conducted by Langan Engineering and Environmental Services, Inc. (Langan) of Elmwood Park, New Jersey. The sub-slab depressurization system (SSDS) was installed and operational in November 2007, as documented in Langan's Engineering Controls (EC) Completion Report, dated November 28, 2007, which was presented with the FER. As permitted by the SMP, prior to initial building occupancy, operation of the sub-slab depressurization system was temporarily suspended during construction. From December 2007 to January 2010, the vapor mitigation system was out of service while construction continued on the western retail building.

In January 2010, the sub-slab depressurization system was reactivated prior to building occupancy. Langan conducted confirmation testing of the SSDS while in active operation on January 20, 2010 and concluded that the SSDS was operating effectively. As outlined in Langan's Soil Vapor Mitigation System Activation Status Memorandum dated January 22, 2010, the vapor mitigation measures have been modified since the submittal of the EC Completion Report and initial certification. These modifications included:

- The extension of the exhaust stacks to six stories above ground level;
- The addition of a second in-line fan to each stack on the 4th floor near the top of each stack;
- The reinstallation of the vapor barrier in the northern half of the western retail building footprint;
- The installation of a waterproofing course of Liquid Boot (a secondary vapor barrier) to the underside of the western retail building slab; and
- Modifications to the number and locations of clean-outs and sampling ports (SP).

Langan reported in a memorandum dated January 31, 2011 that no additional modifications were made to the SSDS since the January 2010 activation and certification. Vacuum measurements collected below the in-line fans were all in acceptable range during Langan's routine inspections conducted in 2011. Measurable vacuum/pressure was documented at each of the accessible endpoint cleanout points of the SSDS during the 2011 inspection, which indicated that the SSDS has maintained negative pressure in the gravel beneath the vapor barrier.

5.2 VAPOR SYSTEM MODIFICATION

Between February 2010 and April 2013, 13 rounds of vapor sampling were conducted from the 8 sampling ports below the 4th floor fans. During sampling, the 1st floor fans remained running but the 4th floor fans were temporarily turned off so there was no vacuum on the sampling port. One ambient air sample was collected during each round from the central portion of the building's roof to assess background concentrations. All 13 rounds of SSDS sampling showed no compounds exceeding the NYSDEC SGCs or NYSDOH AGVs. Although trace levels of methane (0.2% or lower) were detected in three of the eight vapor collection lines, methane has not been detected since February 2011 and, in any event, the highest detected level was 25 times lower than the methane lower explosive limit of 5%. Notwithstanding these low level detections of VOCs and methane in the exhaust stacks, the potential for vapor intrusion into the building is further mitigated by the presence of two vapor barriers.

The 13 rounds of SSDS sampling during active operation generally showed decreasing trends and low VOC and methane concentrations in the SSDS piping. Therefore, in a July 11, 2013 correspondence, AKRF requested a modification to temporarily shut off the SSDS fans to evaluate exhaust and indoor air VOC concentrations with the system in passive mode. In August 2013, NYSDEC and NYSDOH approved AKRF's work plan for SSDS modification and the SSDS was put into passive mode in September 2013 by turning off the fans. Three rounds of sub-slab and indoor air sampling were performed while the fans were off to evaluate building conditions. On April 30, 2014, NYSDEC, in consultation with NYSDOH, approved AKRF's request to permanently convert the active SSDS to passive operation and discontinue SSDS effluent sampling. A copy of NYSDEC's approval letter for this modification was included in the 2014 Periodic Review Report. This change to passive SSDS is further documented in the Revised June 2019 SMPs, which are currently under review by NYSDEC.

5.3 VAPOR SYSTEM INSPECTIONS AND MAINTENANCE

The SSDS has been operated in a passive mode since 2014, in accordance with the NYSDEC-approved conversion of the system to passive operation. Visual inspection of the above-ground portions of the system was conducted during the September 4, 2019 site-wide inspection. The passive SSDS venting was redirected as construction atop the western retail podium continued with the expansion of the northern and southern stairwell bulkheads from the 3rd to the 4th floors, respectively. The 4th floor fans were left in place and the SSDS riser pipes were extended through the stairwell bulkhead roofs. The previous SSDS riser pipes in the northern stairwell bulkhead were manifolded on the 3rd floor then extended with one 6-inch pipe to discharge to the top of the new 4th floor stairwell bulkhead (this configuration only pertained to the SSDS riser pipes in the northern bulkhead). The SSDS riser pipes were extended into newly constructed pipe enclosures (a.k.a. "doghouses") atop the northern and southern stairwell bulkheads during construction of the Towers 6, 7, and 8. Each pipe enclosure was equipped with louvers to vent the passive SSDS system. AKRF confirmed that the SSDS louver design and installation was performed in accordance with the manufacturer's specifications. These changes do not affect the functioning of the passive SSDS.

6.0 MONITORING

6.1 ENGINEERING CONTROL SYSTEM MONITORING

Engineering control system monitoring included the site cover inspection discussed in Section 4.2. In accordance with NYSDEC's approval letter dated April 30, 2014, the active SSDS was permanently converted to passive mode (by turning the fans off) and SSDS effluent sampling was discontinued. No vapor samples were collected during the reporting period.

6.2 GROUNDWATER MONITORING

Sixteen groundwater monitoring wells designated MW-28 to MW-43 were originally installed between September 11 and 14, 2006, but many were damaged during construction and had to be replaced. Replacement wells were identified with an "R" (e.g., MW-43R). If the well was replaced more than once, it was identified with an "R" and a number (e.g., MW-43R3). Locations of wells are depicted on Figure 4. Thirteen wells were re-installed from October 11 and 14, 2011: MW-28R5, MW-29R5, MW-30R4, MW-31R, MW-32R2, MW-33R2, MW-34R2, MW-35R, MW-36R2, MW-37R, MW-38R, MW-39R, and MW-40R2. Well depths varied from 12 to 14.4 feet below grade.

Following the completion of construction in May 2018, NYSDEC approved the discontinuation of sampling nine wells (MW-30R4, MW-33R2, MW-35R, MW-36R2, MW-39R, MW-40R2, MW-41R2, MW-42R, and 43R3) that had shown no, or at most sporadic, detections of PCBs above the Class GA Standard, but required annual sampling of six newly repaired or replaced wells (MW-28R5, MW-31R2, MW-32R2, MW-34R3, MW-37R2, and MW-38R2) and one existing well (MW-29R5).

Between May 21 and June 4, 2018, groundwater samples were collected from the seven wells. The analytical data from the May 2018 sampling indicated generally decreasing PCB levels compared to the previous sampling. Based on the May/June 2018 groundwater analytical results, AKRF requested discontinuation of groundwater monitoring in April 2019, with the remaining wells being decommissioned in accordance with NYSDEC CP-43 protocol. On May 10, 2019, NYSDEC approved AKRF's request to discontinue groundwater sampling and requested the abandonment of the remainder of the post-remediation monitoring wells. On May 21, 2019, the remainder of monitoring wells, including MW-28R5, MW-29R5, MW-31R2, MW-32R2, MW-34R3, MW-37R2, and MW-38R2, were abandoned in accordance with NYSDEC CP-43 protocol.

The results of the sampling event, including groundwater sampling methods, field observations, and analytical results, the May 2019 NYSDEC approval letter to discontinue groundwater sampling, and the May 2019 monitoring well abandonment logs are provided in Appendix C. The former locations of the post-remediation monitoring wells are shown on Figure 4.

6.3 SITE-WIDE INSPECTION

The site-wide inspection was conducted along with the site cover inspection on September 4, 2019. It confirmed that the remedy remains in-place and is effective and protective of human health and the environment with continued implementation of the SMPs. A copy of the Site-Wide Inspection Form is included in Appendix D and discussions of pertinent issues are provided in this PRR.

7.0 INSTITUTIONAL AND ENGINEERING CONTROL COMPLIANCE

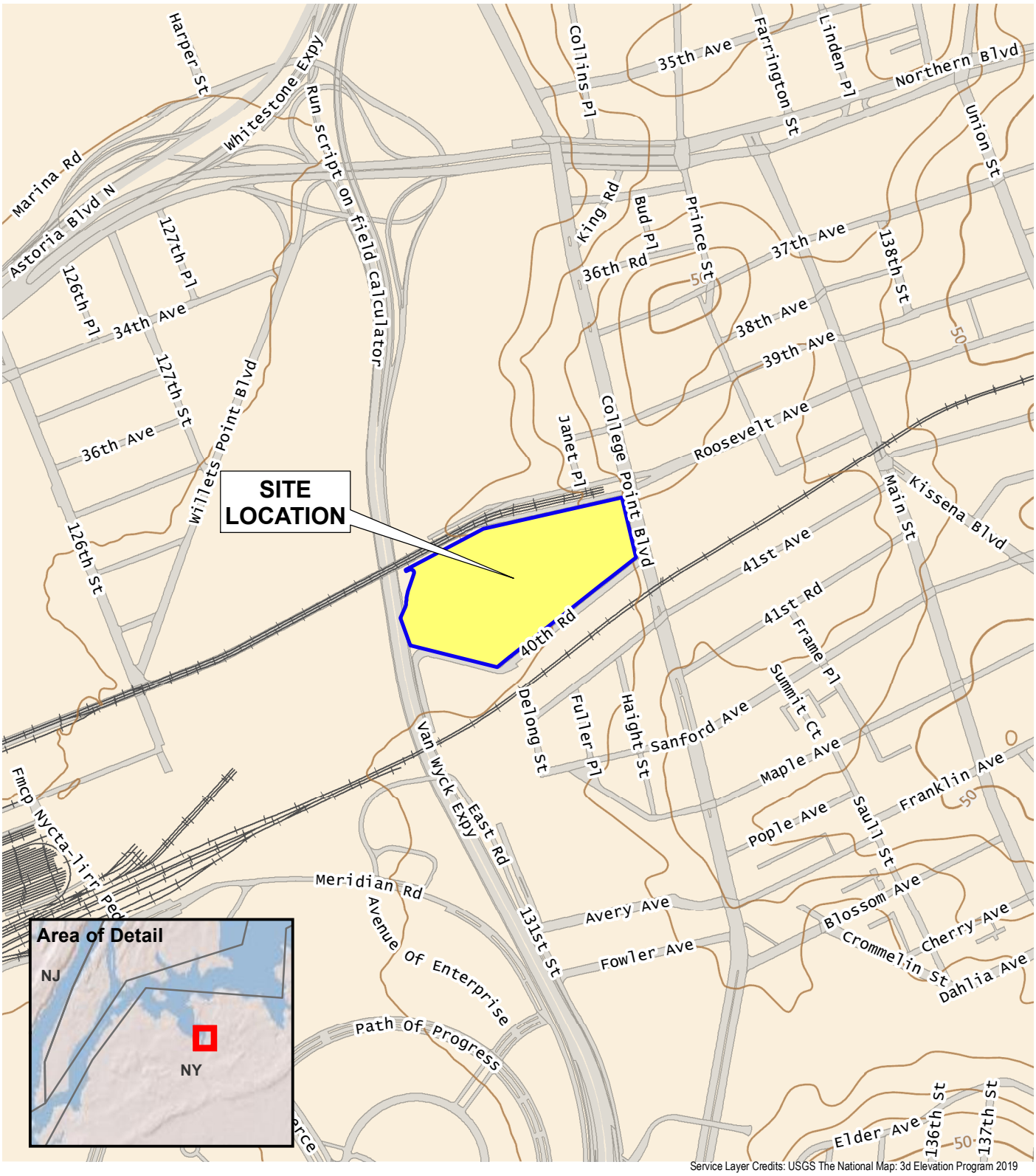
An IC/EC Certification Form was completed for each of the three Parcels based on results from the site monitoring and inspections described in this PRR. Copies of the forms are provided as Appendix E. Engineering and institutional controls implemented as part of the remedial action are described in Sections 2.3.2 and 2.3.3, respectively.

8.0 CONCLUSIONS

Based on the inspections and data evaluation summarized in this report, the following conclusions were developed:

- The observable portions of the permanent site cover were present and in good condition throughout the Property.
- The SSDS fans were off and the SSDS riser piping remained in-place for passive venting during the reporting period.
- No subsurface disturbance activities occurred at the Property during the 2018-2019 reporting period.
- Based on the May/June 2018 groundwater analytical results, AKRF requested discontinuation of groundwater monitoring in April 2019, with the remaining wells being decommissioned in accordance with NYSDEC CP-43 protocol. On May 10, 2019, NYSDEC approved AKRF's request to discontinue groundwater sampling and requested the abandonment of the remainder of the post-remediation monitoring wells. On May 21, 2019, the remainder of monitoring wells, including MW-28R5, MW-29R5, MW-31R2, MW-32R2, MW-34R3, MW-37R2, and MW-38R2, were abandoned in accordance with NYSDEC CP-43 protocol.
- In June 2019, AKRF submitted the Revised June 2019 SMPs, which are currently under review by NYSDEC.
- The remedy remains effective and protective of human health and the environment with continued implementation of the Revised SMPs (with the NYSDEC-approved modifications related to SSDS operation, discontinuation of groundwater sampling, and the abandonment of the post-remediation monitoring wells), and the institutional and engineering control certifications, which will be documented in future PRRs.

FIGURES



©2019 AKRF M:\AKRF Project Files\30141 - Muss Flushing\GIS & Graphics\Hazmat\30141 Fig 1 site loc map 2019.mxd 9/13/2019 9:38:55 AM mvelleux

AKRF

440 Park Avenue South, New York, NY 10016

Flushing Industrial Park, Parcels 1-3

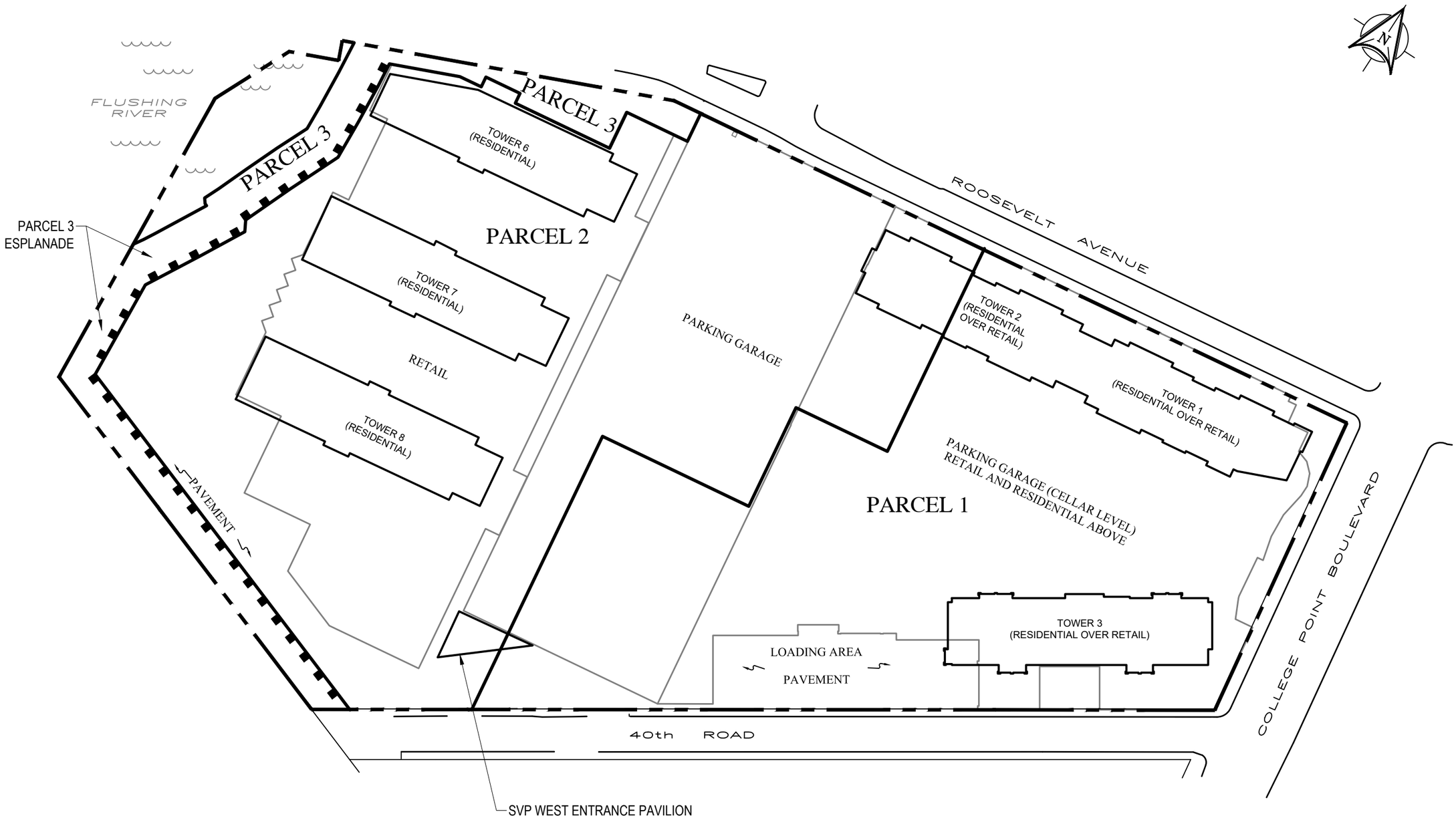
Flushing, New York

PROJECT SITE LOCATION

DATE
9/13/2019

PROJECT NO.
30141

FIGURE
1



LEGEND

- BUILDING LINE
- PARCEL BOUNDARY
- PROPERTY BOUNDARY
- EXTENT OF VAPOR BARRIER

0 50 100 200
SCALE IN FEET

AKRF
440 Park Avenue South, New York, NY 10016

Flushing Industrial Park, Parcels 1-3
Flushing, New York

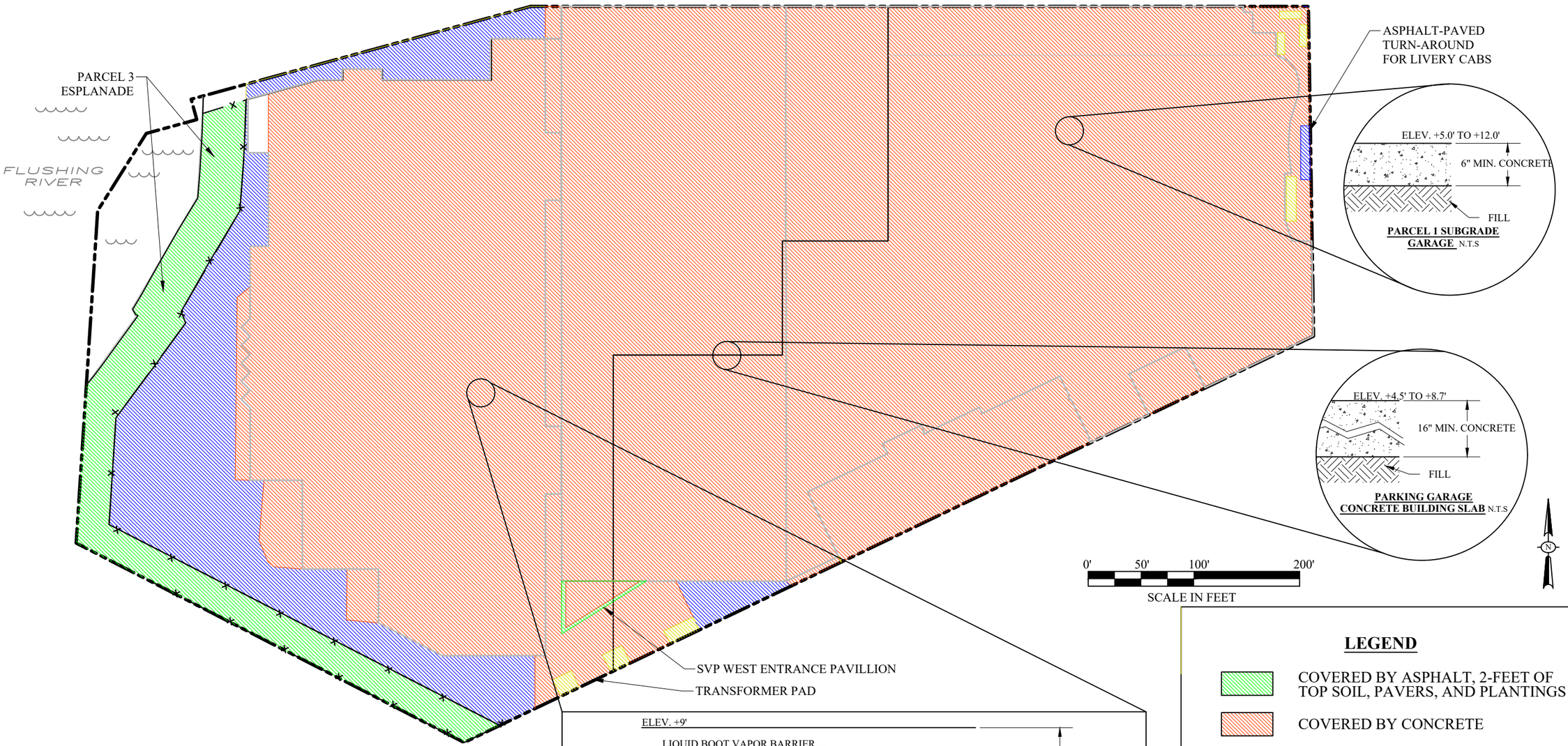
SITE PLAN

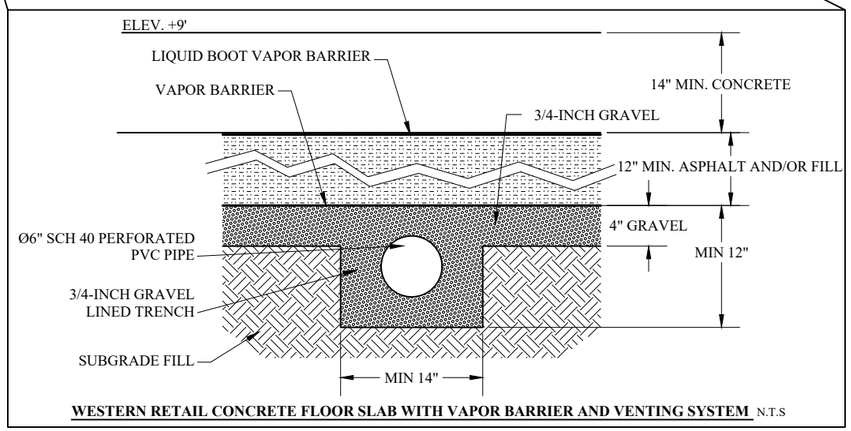
DATE
09/13/2019

PROJECT NO.
30141

FIGURE
2

©2019 AKRF, Inc M:\AKRF Project Files\30141 - Muss Flushing\OU-2&3&4 Plans-Reports\Annual Site Management Report\2018-2019 - Due 09.29.2019\Figures\30141 Fig 2 Site Plan.dwg last save: mvellieux 9/13/2019 9:52 AM





NOTES:

1. DETAILS WERE COMPILED FROM: A SURVEY BY WOHL & O'MARA, L.L.P. (SKY VIEW PARC, DIAGRAM 'R' DATED 11/20/07); FROM VENTING SYSTEM AND VAPOR BARRIER DETAILS PROVIDED BY LANGAN ENGINEERING & ENVIRONMENTAL SERVICES C-901A "AS-BUILT SOIL VAPOR COLLECTION SYSTEM AND DETAILS" DATED 11/28/07; "SOIL VAPOR-MITIGATION SYSTEM ACTIVATION STATUS MEMORANDUM" DATED 1/22/10; AND C-901B "AS-BUILT SOIL VAPOR COLLECTION SYSTEM AND DETAILS" DATED 11/28/07; AND BY FIELD OBSERVATIONS ON 9/04/19 AKRF, INC.

2. ELEVATIONS ARE IN QUEENS BOROUGH DATUM.

LEGEND

- COVERED BY ASPHALT, 2-FEET OF TOP SOIL, PAVERS, AND PLANTINGS
- COVERED BY CONCRETE
- COVERED BY ASPHALT
- RAISED LANDSCAPED PLANTERS (ATOP CONCRETE)
- CHAINLINK FENCE
- BUILDING LINE
- PARCEL BOUNDARY
- PROPERTY BOUNDARY

AKRF
440 Park Avenue South, New York, NY 10016

Flushing Industrial Park, Parcels 1-3
Flushing, New York

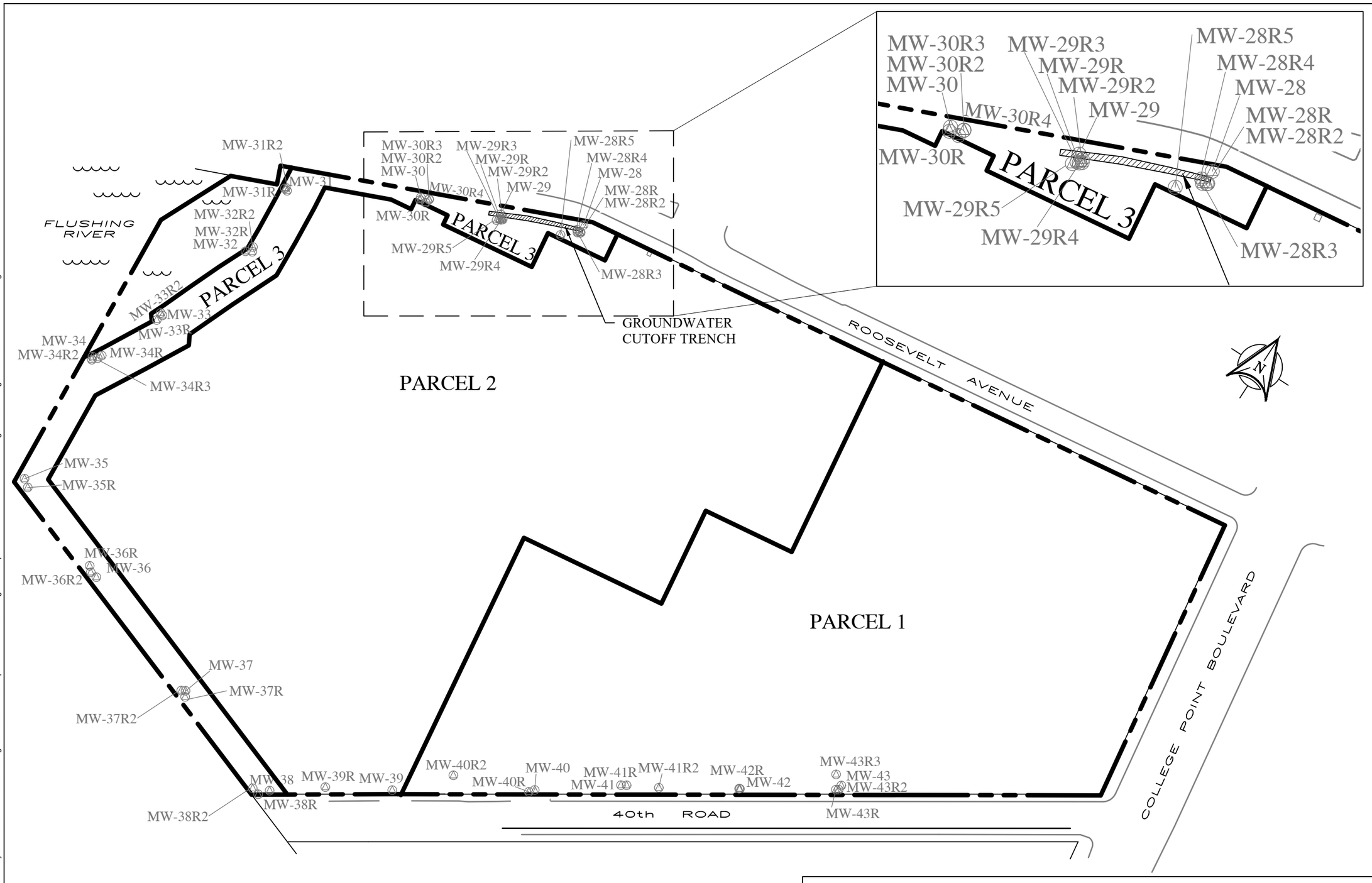
CURRENT SITE COVER (9/04/2019 INSPECTION)

DATE
09/13/2019

PROJECT NO.
30141

FIGURE
3

©2019 AKRF, Inc M:\AKRF Project Files\30141 - Muss Flushing\OU-2&3&4 Plans-Reports\Annual Site Management Report\2018-2019 - Due 09.29.2019\Figures\30141 Fig 3 Current Site Cover.dwg last save: mvelleux 9/13/2019 9:54 AM



LEGEND

PARCEL BOUNDARY

PROPERTY BOUNDARY

MW-43 FORMER MONITORING WELL

AKRF

440 Park Avenue South, New York, NY 10016

Flushing Industrial Park, Parcels 1-3

Flushing, New York

FORMER LOCATIONS OF POST-REMEDIATION MONITORING WELLS

DATE
09/13/2019

PROJECT NO.
30141

FIGURE
4

©2019 AKRF, Inc M:\AKRF Project Files\30141 - Muss Flushing\OU-2&3&4 Plans-Reports\Annual Site Management Report\2018-2019 - Due 09.29.2019\Figures\30141 Fig 4 Post-Rem MonWell Plan.dwg last save: mvelleux 9/13/2019 9:58 AM

APPENDIX A

OWNERSHIP CHANGE DOCUMENTATION

SIVE, PAGET & RIESEL P.C.

Jennifer Coghlan
Direct Dial: (646) 378-7253
jcoghlan@sprlaw.com

April 29, 2019

VIA FEDERAL EXPRESS
Chief, Site Control Section
New York State Department of Environmental Conservation
Division of Environmental Remediation
625 Broadway
Albany, NY 12233-7020

Re: Flushing Industrial Park, Parcels 2 and 3
BCP Site Nos. C241078, C241079

To Whom It May Concern:

We are writing to confirm the closing for Lot 1222. The Certificate of Completion was not transferred in this transaction. The contact information for the new owner for both lots is as follows:

Empire Starlight LLC
c/o Hao Li
1307 40th Road, Unit E26
Flushing, NY 11354
Phone: 917-478-2278
Email: victor@amninstitute.com

Copies of the change in use forms are enclosed herewith. Please call if you have any questions or require additional information.

Sincerely,

Jennifer Coghlan

Cc (via email):
Kelly Lewandowski, Alexandra Servis, Rosalie Rusinko, Esq., DEC
David Brickman, Onex
Steven Grens, AKRF
Michael Hofer, Esq., Fried Frank
Jonathan Canter, Esq., Kramer Levin
David Kahen, Esq., Roberts & Holland

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

60-Day Advance Notification of Site Change of Use, Transfer of Certificate of Completion, and/or Ownership

Required by 6NYCRR Part 375-1.11(d) and 375-1.9(f)

To be submitted at least 60 days prior to change of use to:

Chief, Site Control Section
New York State Department of Environmental Conservation
Division of Environmental Remediation, 625 Broadway
Albany NY 12233-7020

I. Site Name: Flushing Industrial Park (W Waterfront), Parcel 3 **DEC Site ID No.** C241079

II. Contact Information of Person Submitting Notification:

Name: David Brickman

Address1: Sky View Office Owner, L.P., c/o Onex Real Estate Partners

Address2: 695 Bloomfield Avenue, 3rd Floor Montclair, New Jersey 07062

Phone: 212-993-5706 E-mail: dbrickman@onexrealestate.com

III. Type of Change and Date: Indicate the Type of Change(s) (check all that apply):

- [x] Change in Ownership or Change in Remedial Party(ies)
- [ ] Transfer of Certificate of Completion (CoC)
- [ ] Other (e.g., any physical alteration or other change of use)

Proposed Date of Change (mm/dd/yyyy): 04/05/2019

IV. Description: Describe proposed change(s) indicated above and attach maps, drawings, and/or parcel information.

Lot 1222 was transferred to Empire Starlight LLC.

If "Other," the description must explain and advise the Department how such change may or may not affect the site's proposed, ongoing, or completed remedial program (attach additional sheets if needed).

V. **Certification Statement:** Where the change of use results in a change in ownership or in responsibility for the proposed, ongoing, or completed remedial program for the site, the following certification must be completed (by owner or designated representative; see §375-1.11(d)(3)(i)):

I hereby certify that the prospective purchaser and/or remedial party has been provided a copy of any order, agreement, Site Management Plan, or State Assistance Contract regarding the Site's remedial program as well as a copy of all approved remedial work plans and reports.

Name: _____ (Signature) 4/15/19 (Date)

David Brickman (Print Name)

Address1: Sky View Office Owner, L.P., c/o Onex Real Estate Partners

Address2: 695 Bloomfield Avenue, 3rd Floor Montclair, New Jersey 07042

Phone: 212-993-5706 E-mail: dbrickman@onexrealestate.com

VI. **Contact Information for New Owner, Remedial Party, or CoC Holder:** If the site will be sold or there will be a new remedial party, identify the prospective owner(s) or party(ies) along with contact information. If the site is subject to an Environmental Easement, Deed Restriction, or Site Management Plan requiring periodic certification of institutional controls/engineering controls (IC/ECs), indicate who will be the certifying party (attach additional sheets if needed).

☑ Prospective Owner ☐ Prospective Remedial Party ☐ Prospective Owner Representative

Name: Empire Starlight LLC

Address1: c/o Hao Li

Address2: 1307 40th Road, Unit E26, Flushing, NY 11354

Phone: 917-478-2278 E-mail: victor@amninstitute.com

Certifying Party Name: Sky View Parc II, L.P.

Address1: c/o David Brickman, Onex Real Estate Partners

Address2: 695 Bloomfield Avenue, 3rd Floor Montclair, New Jersey 07042

Phone: 212-993-5706 E-mail: dbrickman@onexrealestate.com

VII. Agreement to Notify DEC after Transfer: If Section VI applies, and all or part of the site will be sold, a letter to notify the DEC of the completion of the transfer must be provided. If the current owner is also the holder of the CoC for the site, the CoC should be transferred to the new owner using DEC's form found at http://www.dec.ny.gov/chemical/54736.html. This form has its own filing requirements (see 6NYCRR Part 375-1.9(f)).

Signing below indicates that these notices will be provided to the DEC within the specified time frames. If the sale of the site also includes the transfer of a CoC, the DEC agrees to accept the notice given in VII.3 below in satisfaction of the notice required by VII.1 below (which normally must be submitted within 15 days of the sale of the site).

Within 30 days of the sale of the site, I agree to submit to the DEC:

1. the name and contact information for the new owner(s) (see §375-1.11(d)(3)(ii));
2. the name and contact information for any owner representative; and
3. a notice of transfer using the DEC's form found at http://www.dec.ny.gov/chemical/54736.html (see §375-1.9(f)).

Name: _____ (Signature) 4/15/19 (Date)

David Brickman (Print Name)

Address1: Sky View Office Owner, L.P., c/o Onex Real Estate Partners

Address2: 695 Bloomfield Avenue, 3rd Floor Montclair, New Jersey 07062

Phone: 212-993-5706 E-mail: dbrickman@onexrealestate.com

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

60-Day Advance Notification of Site Change of Use, Transfer of Certificate of Completion, and/or Ownership

Required by 6NYCRR Part 375-1.11(d) and 375-1.9(f)

To be submitted at least 60 days prior to change of use to:

Chief, Site Control Section
New York State Department of Environmental Conservation
Division of Environmental Remediation, 625 Broadway
Albany NY 12233-7020

I. Site Name: Flushing Industrial Park (Western), Parcel 2 **DEC Site ID No.** C241078

II. Contact Information of Person Submitting Notification:

Name: David Brickman

Address1: Sky View Office Owner, L.P., c/o Onex Real Estate Partners

Address2: 695 Bloomfield Avenue, 3rd Floor Montclair, New Jersey 07062

Phone: 212-993-5706 E-mail: dbrickman@onexrealestate.com

III. Type of Change and Date: Indicate the Type of Change(s) (check all that apply):

- [x] Change in Ownership or Change in Remedial Party(ies)
- [ ] Transfer of Certificate of Completion (CoC)
- [ ] Other (e.g., any physical alteration or other change of use)

Proposed Date of Change (mm/dd/yyyy): 04/05/2019

IV. Description: Describe proposed change(s) indicated above and attach maps, drawings, and/or parcel information.

Lot 1222 was transferred to Empire Starlight LLC.

If "Other," the description must explain and advise the Department how such change may or may not affect the site's proposed, ongoing, or completed remedial program (attach additional sheets if needed).

V. **Certification Statement:** Where the change of use results in a change in ownership or in responsibility for the proposed, ongoing, or completed remedial program for the site, the following certification must be completed (by owner or designated representative; see §375-1.11(d)(3)(i)):

I hereby certify that the prospective purchaser and/or remedial party has been provided a copy of any order, agreement, Site Management Plan, or State Assistance Contract regarding the Site's remedial program as well as a copy of all approved remedial work plans and reports.

Name: _____ (Signature) 4/15/19 (Date)

David Brickman (Print Name)

Address1: Sky View Office Owner, L.P., c/o Onex Real Estate Partners

Address2: 695 Bloomfield Avenue, 3rd Floor Montclair, New Jersey 07042

Phone: 212-993-5706 E-mail: dbrickman@onexrealestate.com

VI. **Contact Information for New Owner, Remedial Party, or CoC Holder:** If the site will be sold or there will be a new remedial party, identify the prospective owner(s) or party(ies) along with contact information. If the site is subject to an Environmental Easement, Deed Restriction, or Site Management Plan requiring periodic certification of institutional controls/engineering controls (IC/ECs), indicate who will be the certifying party (attach additional sheets if needed).

☑ Prospective Owner ☐ Prospective Remedial Party ☐ Prospective Owner Representative

Name: Empire Starlight LLC

Address1: c/o Hao Li

Address2: 1307 40th Road, Unit E26, Flushing, NY 11354

Phone: 917-478-2278 E-mail: victor@amninstitute.com

Certifying Party Name: Sky View Parc II, L.P.

Address1: c/o David Brickman, Onex Real Estate Partners

Address2: 695 Bloomfield Avenue, 3rd Floor Montclair, New Jersey 07042

Phone: 212-993-5706 E-mail: dbrickman@onexrealestate.com

VII. Agreement to Notify DEC after Transfer: If Section VI applies, and all or part of the site will be sold, a letter to notify the DEC of the completion of the transfer must be provided. If the current owner is also the holder of the CoC for the site, the CoC should be transferred to the new owner using DEC's form found at http://www.dec.ny.gov/chemical/54736.html. This form has its own filing requirements (see 6NYCRR Part 375-1.9(f)).

Signing below indicates that these notices will be provided to the DEC within the specified time frames. If the sale of the site also includes the transfer of a CoC, the DEC agrees to accept the notice given in VII.3 below in satisfaction of the notice required by VII.1 below (which normally must be submitted within 15 days of the sale of the site).

Within 30 days of the sale of the site, I agree to submit to the DEC:

1. the name and contact information for the new owner(s) (see §375-1.11(d)(3)(ii));
2. the name and contact information for any owner representative; and
3. a notice of transfer using the DEC's form found at http://www.dec.ny.gov/chemical/54736.html (see §375-1.9(f)).

Name: _____ 4/15/19
(Signature) (Date)

David Brickman
(Print Name)

Address1: Sky View Office Owner, L.P., c/o Onex Real Estate Partners

Address2: 695 Bloomfield Avenue, 3rd Floor Montclair, New Jersey 07062

Phone: 212-993-5706 E-mail: dbrickman@onexrealestate.com

SIVE, PAGET & RIESEL P.C.

Jennifer Coghlan
Direct Dial: (646) 378-7253
jcoghlan@sprlaw.com

March 20, 2019

VIA FEDERAL EXPRESS
Chief, Site Control Section
New York State Department of Environmental Conservation
Division of Environmental Remediation
625 Broadway
Albany, NY 12233-7020

Re: Flushing Industrial Park, Parcels 2 and 3
BCP Site Nos. C241078, C241079

To Whom It May Concern:

We are writing to confirm the closing for Lot 1218. The Certificate of Completion was not transferred in this transaction. The contact information for the new owner for both lots is as follows:

LC Property Group LLC
c/o Mindy Wen-Jie Chu
3907 Prince Street, Suite #1E
Flushing, NY 11354
Phone: 917-385-5534
Email: rphme@aol.com

Copies of the change in use forms are enclosed herewith. Please call if you have any questions or require additional information.

Sincerely,

Jennifer Coghlan

Cc (via email):
Kelly Lewandowski, Alexandra Servis, Rosalie Rusinko, Esq., DEC
David Brickman, Onex
Steven Grens, AKRF
Michael Hofer, Esq., Fried Frank
Jonathan Canter, Esq., Kramer Levin
David Kahen, Esq., Roberts & Holland

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

60-Day Advance Notification of Site Change of Use, Transfer of Certificate of Completion, and/or Ownership

Required by 6NYCRR Part 375-1.11(d) and 375-1.9(f)

To be submitted at least 60 days prior to change of use to:

Chief, Site Control Section
New York State Department of Environmental Conservation
Division of Environmental Remediation, 625 Broadway
Albany NY 12233-7020

I. Site Name: Flushing Industrial Park (Western), Parcel 2 **DEC Site ID No.** C241078

II. Contact Information of Person Submitting Notification:

Name: David Brickman

Address1: Sky View Office Owner, L.P., c/o Onex Real Estate Partners

Address2: 695 Bloomfield Avenue, 3rd Floor Montclair, New Jersey 07062

Phone: 212-993-5706 E-mail: dbrickman@onexrealestate.com

III. Type of Change and Date: Indicate the Type of Change(s) (check all that apply):

- [x] Change in Ownership or Change in Remedial Party(ies)
- [ ] Transfer of Certificate of Completion (CoC)
- [ ] Other (e.g., any physical alteration or other change of use)

Proposed Date of Change (mm/dd/yyyy): March 1, 2019

IV. Description: Describe proposed change(s) indicated above and attach maps, drawings, and/or parcel information.

Lot 1218 was transferred to LC Property Group LLC.

If "Other," the description must explain and advise the Department how such change may or may not affect the site's proposed, ongoing, or completed remedial program (attach additional sheets if needed).

V. **Certification Statement:** Where the change of use results in a change in ownership or in responsibility for the proposed, ongoing, or completed remedial program for the site, the following certification must be completed (by owner or designated representative; see §375-1.11(d)(3)(i)):

I hereby certify that the prospective purchaser and/or remedial party has been provided a copy of any order, agreement, Site Management Plan, or State Assistance Contract regarding the Site's remedial program as well as a copy of all approved remedial work plans and reports.

Name: _____ 3/15/19
(Signature) (Date)

David Brickman
(Print Name)

Address1: Sky View Office Owner, L.P., c/o Onex Real Estate Partners

Address2: 695 Bloomfield Avenue, 3rd Floor Montclair, New Jersey 07042

Phone: 212-993-5706 E-mail: dbrickman@onexrealestate.com

VI. **Contact Information for New Owner, Remedial Party, or CoC Holder:** If the site will be sold or there will be a new remedial party, identify the prospective owner(s) or party(ies) along with contact information. If the site is subject to an Environmental Easement, Deed Restriction, or Site Management Plan requiring periodic certification of institutional controls/engineering controls (IC/ECs), indicate who will be the certifying party (attach additional sheets if needed).

☑ Prospective Owner ☐ Prospective Remedial Party ☐ Prospective Owner Representative

Name: LC Property Group LLC

Address1: c/o Mindy Wen-Jie Chu

Address2: 3907 Prince Street, Suite #1E, Flushing, NY 11354

Phone: 917-385-5534 E-mail: rphme@aol.com

Certifying Party Name: Sky View Parc II, L.P.

Address1: c/o David Brickman, Onex Real Estate Partners

Address2: 695 Bloomfield Avenue, 3rd Floor Montclair, New Jersey 07042

Phone: 212-993-5706 E-mail: dbrickman@onexrealestate.com

VII. Agreement to Notify DEC after Transfer: If Section VI applies, and all or part of the site will be sold, a letter to notify the DEC of the completion of the transfer must be provided. If the current owner is also the holder of the CoC for the site, the CoC should be transferred to the new owner using DEC's form found at http://www.dec.ny.gov/chemical/54736.html. This form has its own filing requirements (see 6NYCRR Part 375-1.9(f)).

Signing below indicates that these notices will be provided to the DEC within the specified time frames. If the sale of the site also includes the transfer of a CoC, the DEC agrees to accept the notice given in VII.3 below in satisfaction of the notice required by VII.1 below (which normally must be submitted within 15 days of the sale of the site).

Within 30 days of the sale of the site, I agree to submit to the DEC:

1. the name and contact information for the new owner(s) (see §375-1.11(d)(3)(ii));
2. the name and contact information for any owner representative; and
3. a notice of transfer using the DEC's form found at http://www.dec.ny.gov/chemical/54736.html (see §375-1.9(f)).

Name: _____ (Signature) 3/15/19 (Date)

David Brickman (Print Name)

Address1: Sky View Office Owner, L.P., c/o Onex Real Estate Partners

Address2: 695 Bloomfield Avenue, 3rd Floor Montclair, New Jersey 07062

Phone: 212-993-5706 E-mail: dbrickman@onexrealestate.com

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

60-Day Advance Notification of Site Change of Use, Transfer of Certificate of Completion, and/or Ownership

Required by 6NYCRR Part 375-1.11(d) and 375-1.9(f)

To be submitted at least 60 days prior to change of use to:

Chief, Site Control Section
New York State Department of Environmental Conservation
Division of Environmental Remediation, 625 Broadway
Albany NY 12233-7020

I. Site Name: Flushing Industrial Park (W. Waterfront), Parcel 3 **DEC Site ID No.** C241079

II. Contact Information of Person Submitting Notification:

Name: David Brickman

Address1: Sky View Office Owner, L.P., c/o Onex Real Estate Partners

Address2: 695 Bloomfield Avenue, 3rd Floor Montclair, New Jersey 07062

Phone: 212-993-5706 E-mail: dbrickman@onexrealestate.com

III. Type of Change and Date: Indicate the Type of Change(s) (check all that apply):

- [x] Change in Ownership or Change in Remedial Party(ies)
- [ ] Transfer of Certificate of Completion (CoC)
- [ ] Other (e.g., any physical alteration or other change of use)

Proposed Date of Change (mm/dd/yyyy): March 1, 2019

IV. Description: Describe proposed change(s) indicated above and attach maps, drawings, and/or parcel information.

Lot 1218 was transferred to LC Property Group LLC.

If "Other," the description must explain and advise the Department how such change may or may not affect the site's proposed, ongoing, or completed remedial program (attach additional sheets if needed).

V. **Certification Statement:** Where the change of use results in a change in ownership or in responsibility for the proposed, ongoing, or completed remedial program for the site, the following certification must be completed (by owner or designated representative; see §375-1.11(d)(3)(i)):

I hereby certify that the prospective purchaser and/or remedial party has been provided a copy of any order, agreement, Site Management Plan, or State Assistance Contract regarding the Site's remedial program as well as a copy of all approved remedial work plans and reports.

Name: _____ (Signature) 3/15/19 (Date)

David Brickman (Print Name)

Address1: Sky View Office Owner, L.P., c/o Onex Real Estate Partners

Address2: 695 Bloomfield Avenue, 3rd Floor Montclair, New Jersey 07042

Phone: 212-993-5706 E-mail: dbrickman@onexrealestate.com

VI. **Contact Information for New Owner, Remedial Party, or CoC Holder:** If the site will be sold or there will be a new remedial party, identify the prospective owner(s) or party(ies) along with contact information. If the site is subject to an Environmental Easement, Deed Restriction, or Site Management Plan requiring periodic certification of institutional controls/engineering controls (IC/ECs), indicate who will be the certifying party (attach additional sheets if needed).

☑ Prospective Owner ☐ Prospective Remedial Party ☐ Prospective Owner Representative

Name: LC Property Group LLC

Address1: c/o Mindy Wen-Jie Chu

Address2: 3907 Prince Street, Suite #1E, Flushing, NY 11354

Phone: 917-385-5534 E-mail: rphme@aol.com

Certifying Party Name: Sky View Parc II, L.P.

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VII. Agreement to Notify DEC after Transfer: If Section VI applies, and all or part of the site will be sold, a letter to notify the DEC of the completion of the transfer must be provided. If the current owner is also the holder of the CoC for the site, the CoC should be transferred to the new owner using DEC's form found at http://www.dec.ny.gov/chemical/54736.html. This form has its own filing requirements (see 6NYCRR Part 375-1.9(f)).

Signing below indicates that these notices will be provided to the DEC within the specified time frames. If the sale of the site also includes the transfer of a CoC, the DEC agrees to accept the notice given in VII.3 below in satisfaction of the notice required by VII.1 below (which normally must be submitted within 15 days of the sale of the site).

Within 30 days of the sale of the site, I agree to submit to the DEC:

1. the name and contact information for the new owner(s) (see §375-1.11(d)(3)(ii));
2. the name and contact information for any owner representative; and
3. a notice of transfer using the DEC's form found at http://www.dec.ny.gov/chemical/54736.html (see §375-1.9(f)).

Name: _____ (Signature) 3/15/19 (Date)

David Brickman (Print Name)

Address1: Sky View Office Owner, L.P., c/o Onex Real Estate Partners

Address2: 695 Bloomfield Avenue, 3rd Floor Montclair, New Jersey 07062

Phone: 212-993-5706 E-mail: dbrickman@onexrealestate.com

APPENDIX B

SITE COVER INSPECTION FORM AND PHOTOGRAPHS OF (SEPTEMBER 2019)

SITE COVER INSPECTION FORM
FLUSHING INDUSTRIAL PARK, PARCELS 1, 2 AND 3
COLLEGE POINT BOULEVARD AND 40TH ROAD, FLUSHING, NEW YORK

Inspector: Steve Grens of AKRF, Inc.

Date: September 4, 2019

1. Landscaped areas:

Adequate top soil cover present?

No landscaped areas other than raised concrete planters and the Parcel 3 esplanade (placed on top of pavement site cap).

Signs of erosion?

N/A

Recommended corrective action:

N/A

2. Outdoor paving/sidewalks:

Note any signs of cracking or other damage:

Surficial cracks were noted on the Parcel 2 asphalt-pavement in the western loading dock area; however, no breaches or areas with greater than 25% surface damage noted. No other signs of significant cracking or damage observed on any of the concrete or asphalt-paved parking areas, loading dock areas, concrete sidewalks.

Note any areas where greater than 25% of surface is cracked/damaged:

No areas greater than 25% surface damage were observed.

Recommended corrective action:

No corrective actions are warranted at this time.

3. Lower level retail and garage slabs:

Note any signs of cracking or other damage:

Minor cracks were observed on the concrete floor slab in the residential and retail parking garages.

Note any areas where greater than 25% of surface is cracked/damaged:

No areas greater than 25% surface damage were observed.

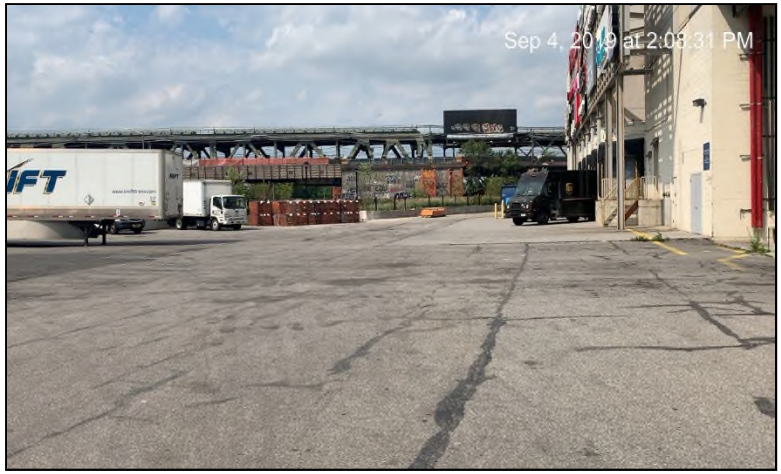
Recommended corrective action:

The cracks noted on the concrete floor were minimal. No corrective actions are warranted at this time.

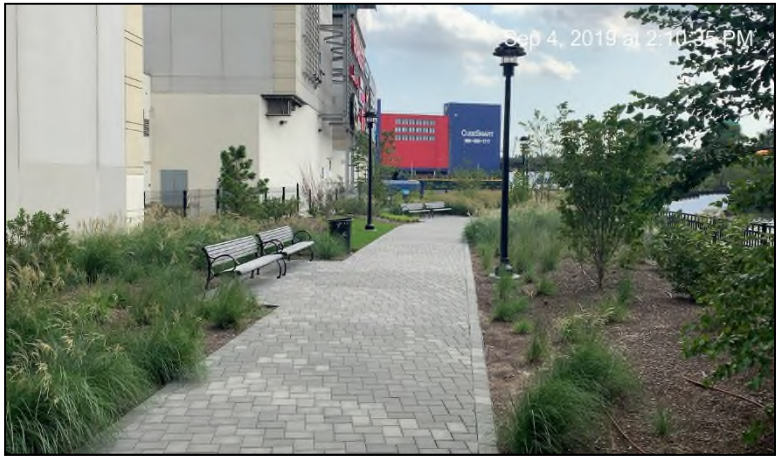
Comments (attach photos/sketches to illustrate any damage noted):

See attached photos of site cover conditions observed during September 4, 2019 inspection.

Photograph 1: The northwestern portion of the Property (Parcels 2 and 3).



Photograph 2: The western portion of the Property (Parcels 2 and 3).

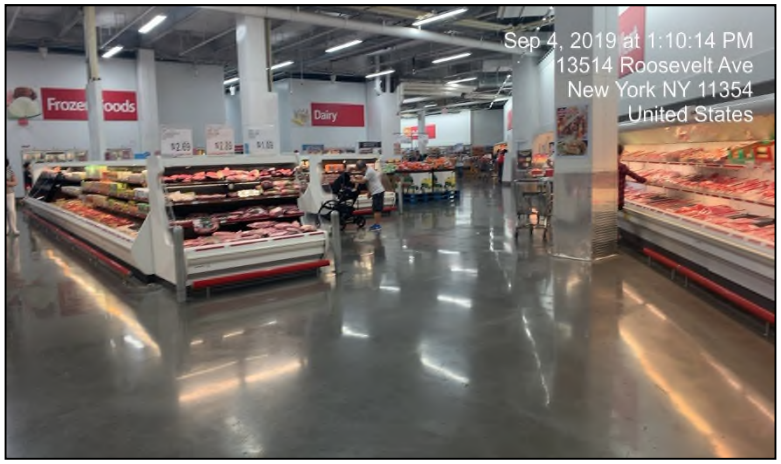


Photograph 3: The western portion of the Property and the esplanade (Parcels 2 and 3).

Photograph 4: The southwestern portion of the Property (Parcel 3).

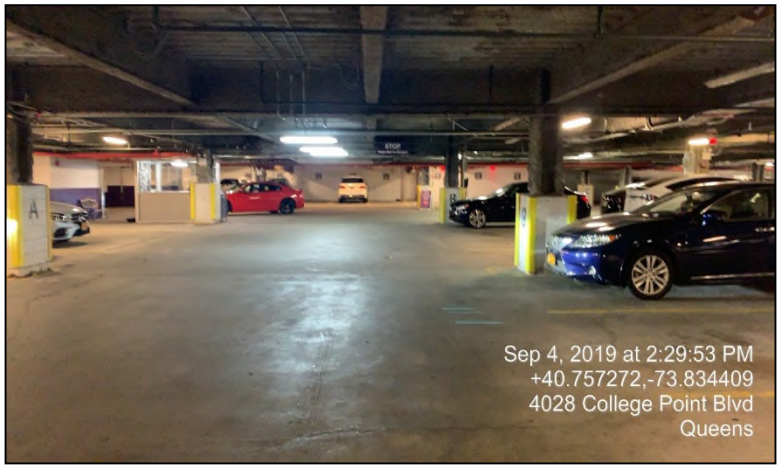
Photograph 5: The southern portion of the Property (Parcels 1 and 2).

Photograph 6: The retail space and residential towers on the northeastern portion of the Property (Parcel 1).



Photograph 7: Concrete slab as part of the site cover in the western retail building (Parcel 2).

Photograph 8: Concrete slab as part of the site cover in the ground floor parking garage between the western and eastern retail buildings (Parcels 1 and 2).



Photograph 9: Concrete slab in the parking garage, as part of the site cover beneath the eastern retail building (Parcel 1).

Photograph 10: The SSDS riser piping manifolded into one 6-inch effluent pipe on the 3rd floor of the northern stairwell (Parcel 2).

APPENDIX C

MAY/JUNE 2018 ANNUAL MONITORING REPORT AND MAY 2019 WELL ABANDONMENT DOCUMENTATION

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Environmental Remediation, Region 2
47-40 21st Street, Long Island City, NY 11101
P: (718) 482-4995
www.dec.ny.gov

May 10, 2019

David Brickman
Sky View Parc II, L.P.
c/o Onex Real Estate Partners
695 Bloomfield Ave., 3rd Floor
Montclair, NJ 07042

Re: Flushing Industrial Park Parcels 1, 2 and 3
Site No. C241051, C241078 and C241079
Annual Monitoring Report

Dear Mr. Brickman:

The New York State Department of Environmental Conservation (the Department), in consultation with the New York State Department of Health (NYSDOH), has completed its review of the Annual Monitoring Report (the Report) for the May/June 2018 sampling event. It was dated April 2019 and was prepared by AKRF, Inc. on behalf of Onex Real Estate Partners. The Report recommends that groundwater sampling be discontinued based on the sampling results which revealed continued decreasing levels of residual PCB contamination with at most minor exceedances of the groundwater standard. The Department concurs with this recommendation and accepts the findings of the Report.

The on-site groundwater monitoring wells should be properly decommissioned in accordance with Commissioners Policy 43, which can be found at: https://www.dec.ny.gov/docs/remediation_hudson_pdf/cp43mwdecomm.pdf. Documentation of the well decommissioning should be included in the next periodic review report.

Please submit a revision to the approved Site Management Plan to reflect the above approved modification within 30 days of the date of this letter.

If you have any questions, or need additional forms, please contact me at 718-482-4096 or e-mail at shaun.bollers@dec.ny.gov.

Sincerely,

Nicholas S. Bollers

Shaun Bollers

Assistant Environmental Engineer

ec: R. Rusinko, J. O'Connell, M. Yau - NYSDEC
J. Deming, D. Hettrick, A. Ghosh - NYSDOH
M. Simons, M. Lapin, N. Chefalo, S. Grens - AKRF
J. Coghlan, M. Chertok – Sive Paget & Riesel, P.C.

FIGURE 3

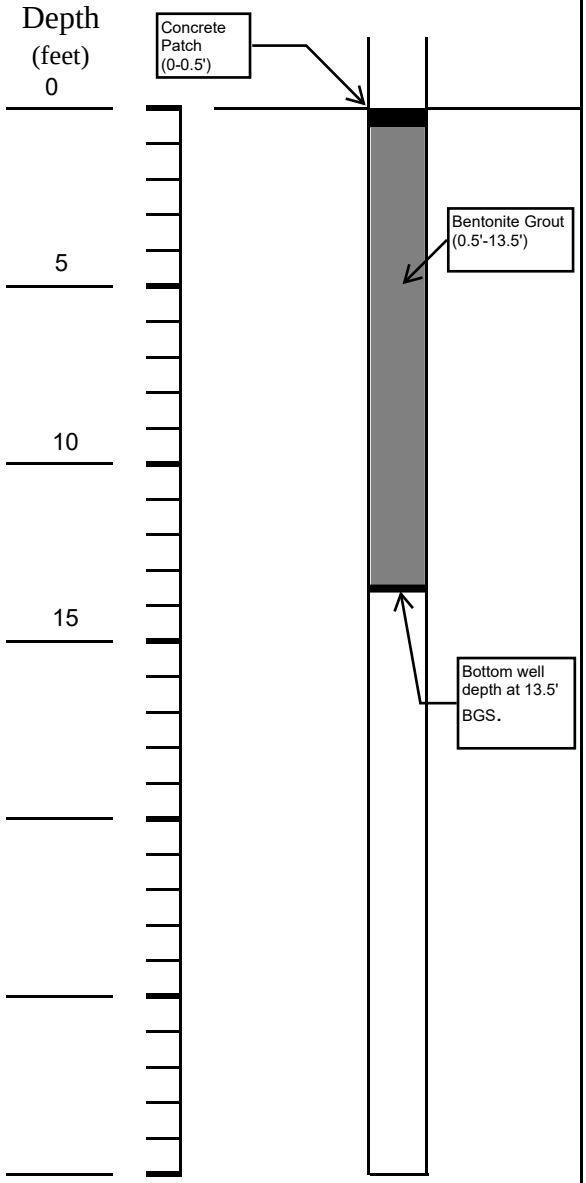
WELL DECOMMISSIONING RECORD

Site Name: Flushing Industrial Park	Well I.D.: MW-28R5
Site Location: Queens, NY	Driller: EES
Drilling Co.: Eastern Environmental Solutions (EES)	Inspector: C. Puoplo
	Date: 05/21/2019

DECOMMISSIONING DATA
(Fill in all that apply)

OVERDRILLING	
Interval Drilled	
Drilling Method(s)	
Borehole Dia. (in.)	
Temporary Casing Installed? (y/n)	
Depth temporary casing installed	
Casing type/dia. (in.)	
Method of installing	
CASING PULLING	
Method employed	Hand Pull
Casing retrieved (feet)	13.5
Casing type/dia. (in)	PVC / 2"
CASING PERFORATING	
Equipment used	
Number of perforations/foot	
Size of perforations	
Interval perforated	
GROUTING	
Interval grouted (FBLS)	0.5-13.5
# of batches prepared	1.5
For each batch record:	
Quantity of water used (gal.)	7.8
Quantity of cement used (lbs.)	94
Cement type	Type I-II Portland
Quantity of bentonite used (lbs.)	3.9
Quantity of calcium chloride used (lbs.)	
Volume of grout prepared (gal.)	7.8
Volume of grout used (gal.)	7.8

WELL SCHEMATIC*



COMMENTS: The wells were abandoned tremie grouting pre-mixed bentonite grout to 0.5' below grade. Each well was finished with concrete at grade.

* Sketch in all relevant decommissioning data, including: interval overdrilled, interval grouted, casing left in hole, well stickup, etc.

Drilling Contractor

Department Representative

FIGURE 3

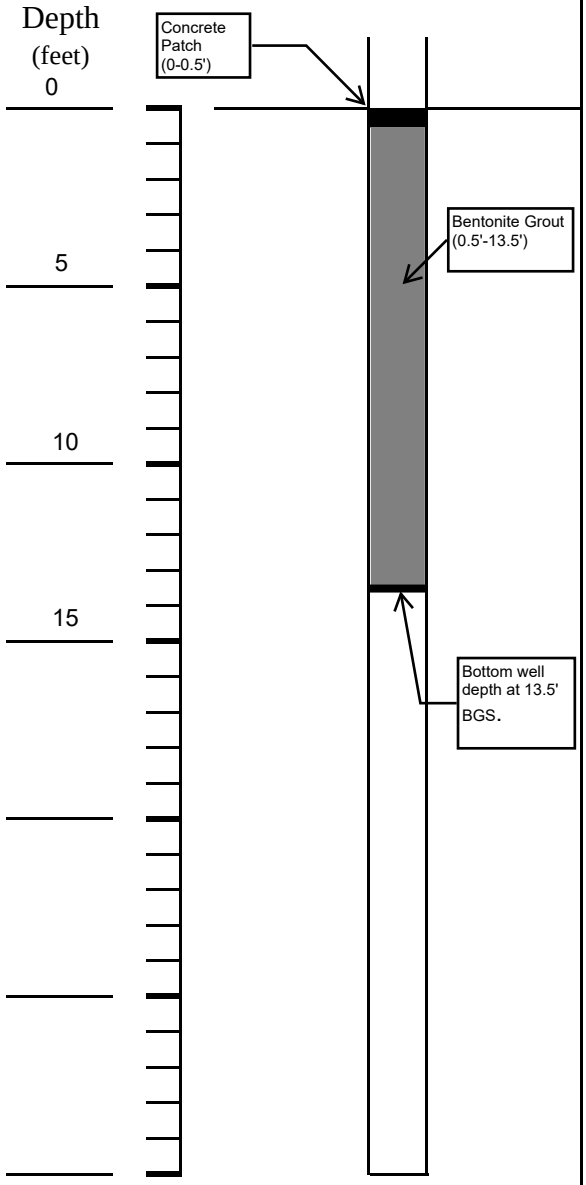
WELL DECOMMISSIONING RECORD

Site Name: Flushing Industrial Park	Well I.D.: MW-29R5
Site Location: Queens, NY	Driller: EES
Drilling Co.: Eastern Environmental Solutions (EES)	Inspector: C. Puoplo
	Date: 05/21/2019

DECOMMISSIONING DATA
(Fill in all that apply)

OVERDRILLING	
Interval Drilled	
Drilling Method(s)	
Borehole Dia. (in.)	
Temporary Casing Installed? (y/n)	
Depth temporary casing installed	
Casing type/dia. (in.)	
Method of installing	
CASING PULLING	
Method employed	Hand Pull
Casing retrieved (feet)	13.5
Casing type/dia. (in)	PVC / 2"
CASING PERFORATING	
Equipment used	
Number of perforations/foot	
Size of perforations	
Interval perforated	
GROUTING	
Interval grouted (FBLS)	0.5-13.5
# of batches prepared	1.5
For each batch record:	
Quantity of water used (gal.)	7.8
Quantity of cement used (lbs.)	94
Cement type	Type I-II Portland
Quantity of bentonite used (lbs.)	3.9
Quantity of calcium chloride used (lbs.)	
Volume of grout prepared (gal.)	7.8
Volume of grout used (gal.)	7.8

WELL SCHEMATIC*



COMMENTS: The wells were abandoned tremie grouting pre-mixed bentonite grout to 0.5' below grade. Each well was finished with concrete at grade.

* Sketch in all relevant decommissioning data, including: interval overdrilled, interval grouted, casing left in hole, well stickup, etc.

Drilling Contractor

Department Representative

FIGURE 3

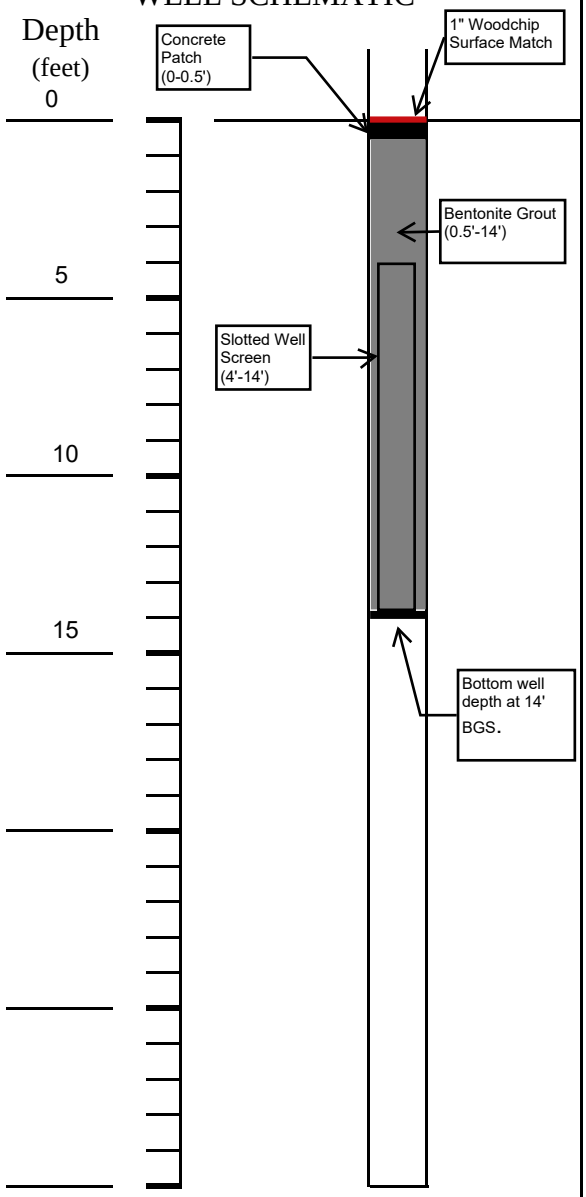
WELL DECOMMISSIONING RECORD

Site Name: Flushing Industrial Park	Well I.D.: MW-31R2
Site Location: Queens, NY	Driller: EES
Drilling Co.: Eastern Environmental Solutions (EES)	Inspector: C. Puoplo
	Date: 05/21/2019

DECOMMISSIONING DATA
(Fill in all that apply)

OVERDRILLING	
Interval Drilled	
Drilling Method(s)	
Borehole Dia. (in.)	
Temporary Casing Installed? (y/n)	
Depth temporary casing installed	
Casing type/dia. (in.)	
Method of installing	
CASING PULLING	
Method employed	Hand Pull
Casing retrieved (feet)	4
Casing type/dia. (in)	PVC / 2"
CASING PERFORATING	
Equipment used	
Number of perforations/foot	
Size of perforations	
Interval perforated	
GROUTING	
Interval grouted (FBLS)	0.5-14
# of batches prepared	1.5
For each batch record:	
Quantity of water used (gal.)	7.8
Quantity of cement used (lbs.)	94
Cement type	Type I-II Portland
Quantity of bentonite used (lbs.)	3.9
Quantity of calcium chloride used (lbs.)	
Volume of grout prepared (gal.)	7.8
Volume of grout used (gal.)	7.8

WELL SCHEMATIC*



COMMENTS: The wells were abandoned tremie grouting pre-mixed bentonite grout to 0.5' below grade. Each well was finished with concrete at grade. 10' slotted well screen grouted in place.
Well bottom could not be detached.

* Sketch in all relevant decommissioning data, including: interval overdrilled, interval grouted, casing left in hole, well stickup, etc.

Drilling Contractor

Department Representative

FIGURE 3

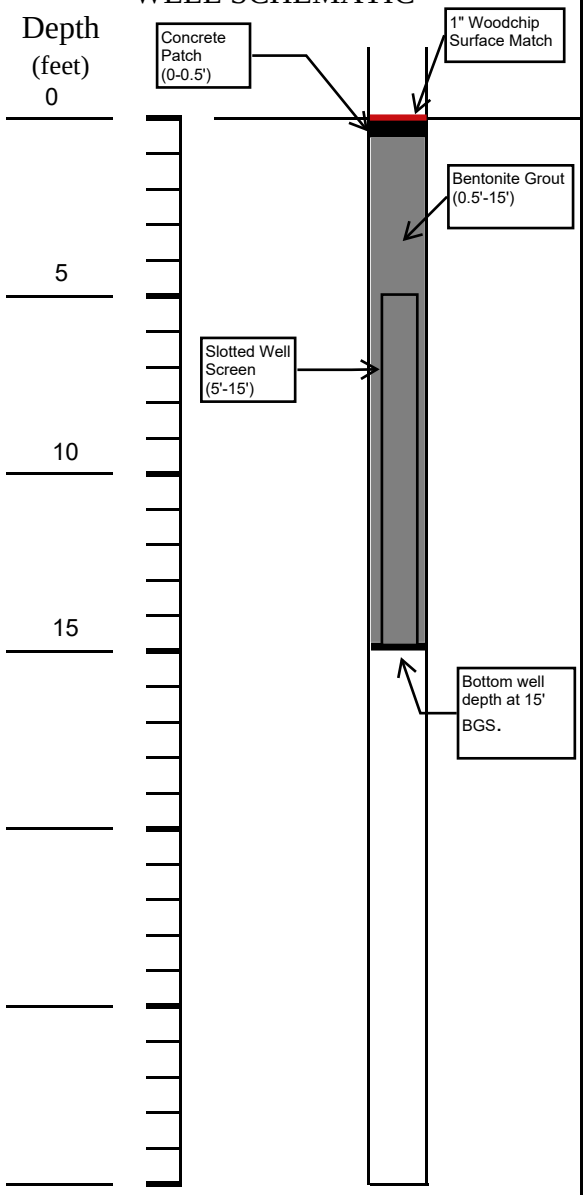
WELL DECOMMISSIONING RECORD

Site Name: Flushing Industrial Park	Well I.D.: MW-32R2
Site Location: Queens, NY	Driller: EES
Drilling Co.: Eastern Environmental Solutions (EES)	Inspector: C. Puoplo
	Date: 05/21/2019

DECOMMISSIONING DATA
(Fill in all that apply)

OVERDRILLING	
Interval Drilled	
Drilling Method(s)	
Borehole Dia. (in.)	
Temporary Casing Installed? (y/n)	
Depth temporary casing installed	
Casing type/dia. (in.)	
Method of installing	
CASING PULLING	
Method employed	Hand Pull
Casing retrieved (feet)	5
Casing type/dia. (in)	PVC / 2"
CASING PERFORATING	
Equipment used	
Number of perforations/foot	
Size of perforations	
Interval perforated	
GROUTING	
Interval grouted (FBLS)	0.5-15
# of batches prepared	1.5
For each batch record:	
Quantity of water used (gal.)	7.8
Quantity of cement used (lbs.)	94
Cement type	Type I-II Portland
Quantity of bentonite used (lbs.)	3.9
Quantity of calcium chloride used (lbs.)	
Volume of grout prepared (gal.)	7.8
Volume of grout used (gal.)	7.8

WELL SCHEMATIC*



COMMENTS: The wells were abandoned tremie grouting pre-mixed bentonite grout to 0.5' below grade. Each well was finished with concrete at grade. 10' slotted well screen grouted in place. Well bottom could not be detached.

* Sketch in all relevant decommissioning data, including: interval overdrilled, interval grouted, casing left in hole, well stickup, etc.

Drilling Contractor

Department Representative

FIGURE 3

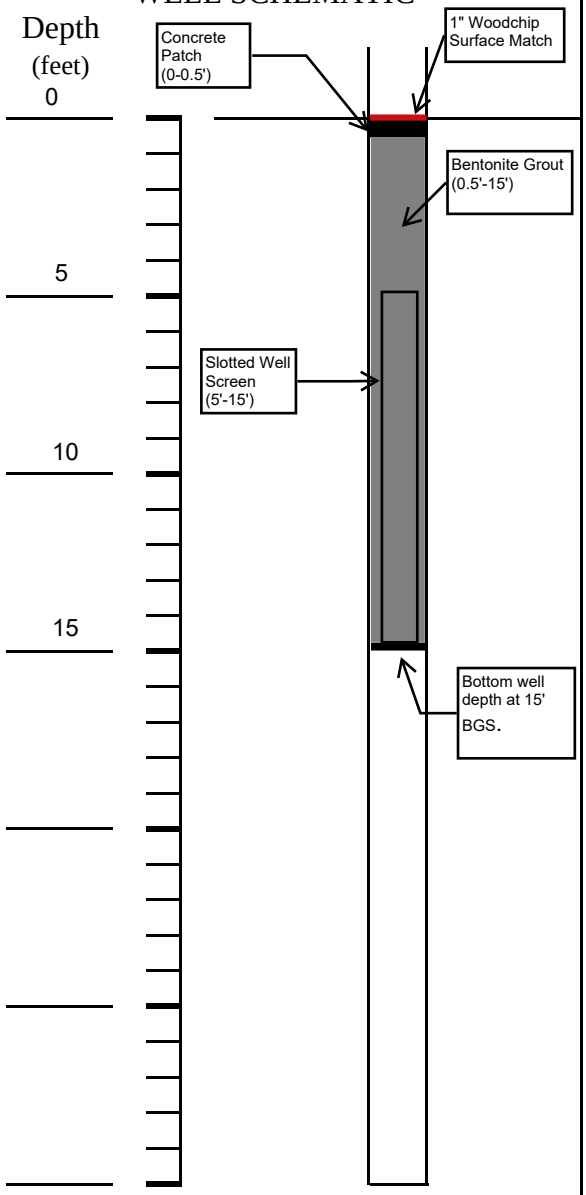
WELL DECOMMISSIONING RECORD

Site Name: Flushing Industrial Park	Well I.D.: MW-34R3
Site Location: Queens, NY	Driller: EES
Drilling Co.: Eastern Environmental Solutions (EES)	Inspector: C. Puoplo
	Date: 05/21/2019

DECOMMISSIONING DATA
(Fill in all that apply)

OVERDRILLING	
Interval Drilled	
Drilling Method(s)	
Borehole Dia. (in.)	
Temporary Casing Installed? (y/n)	
Depth temporary casing installed	
Casing type/dia. (in.)	
Method of installing	
CASING PULLING	
Method employed	Hand Pull
Casing retrieved (feet)	5
Casing type/dia. (in)	PVC / 2"
CASING PERFORATING	
Equipment used	
Number of perforations/foot	
Size of perforations	
Interval perforated	
GROUTING	
Interval grouted (FBLS)	0.5-15
# of batches prepared	1.5
For each batch record:	
Quantity of water used (gal.)	7.8
Quantity of cement used (lbs.)	94
Cement type	Type I-II Portland
Quantity of bentonite used (lbs.)	3.9
Quantity of calcium chloride used (lbs.)	
Volume of grout prepared (gal.)	7.8
Volume of grout used (gal.)	7.8

WELL SCHEMATIC*



COMMENTS: The wells were abandoned tremie grouting pre-mixed bentonite grout to 0.5' below grade. Each well was finished with concrete at grade. 10' slotted well screen grouted in place. Well bottom could not be detached.

* Sketch in all relevant decommissioning data, including: interval overdrilled, interval grouted, casing left in hole, well stickup, etc.

Drilling Contractor

Department Representative

FIGURE 3

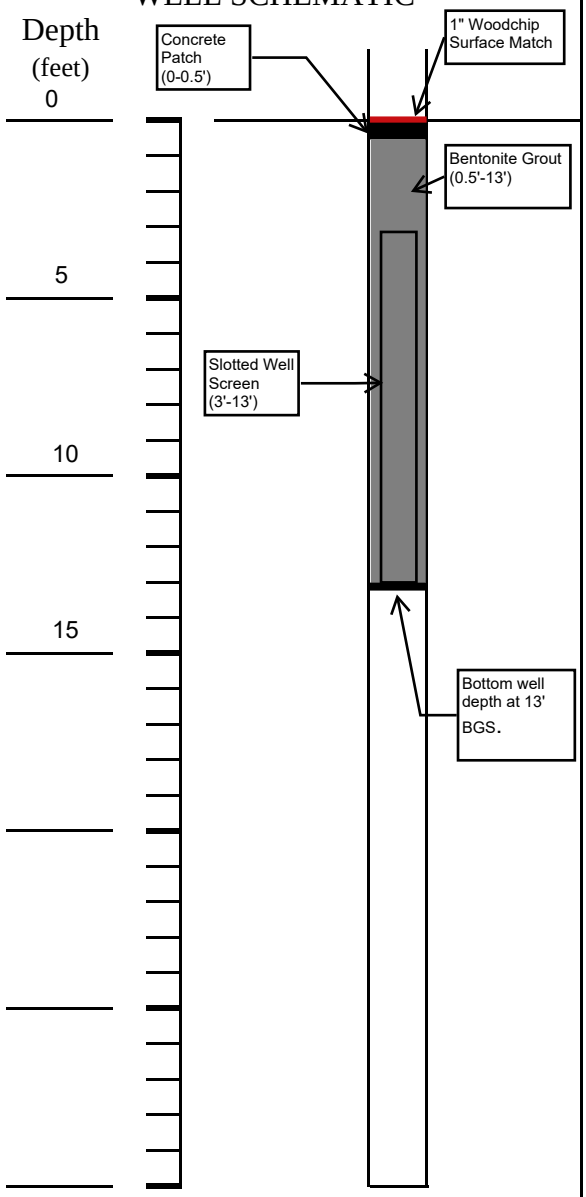
WELL DECOMMISSIONING RECORD

Site Name: Flushing Industrial Park	Well I.D.: MW-37R2
Site Location: Queens, NY	Driller: EES
Drilling Co.: Eastern Environmental Solutions (EES)	Inspector: C. Puoplo
	Date: 05/21/2019

DECOMMISSIONING DATA
(Fill in all that apply)

OVERDRILLING	
Interval Drilled	
Drilling Method(s)	
Borehole Dia. (in.)	
Temporary Casing Installed? (y/n)	
Depth temporary casing installed	
Casing type/dia. (in.)	
Method of installing	
CASING PULLING	
Method employed	Hand Pull
Casing retrieved (feet)	3
Casing type/dia. (in)	PVC / 2"
CASING PERFORATING	
Equipment used	
Number of perforations/foot	
Size of perforations	
Interval perforated	
GROUTING	
Interval grouted (FBLS)	0.5-13
# of batches prepared	1.5
For each batch record:	
Quantity of water used (gal.)	7.8
Quantity of cement used (lbs.)	94
Cement type	Type I-II Portland
Quantity of bentonite used (lbs.)	3.9
Quantity of calcium chloride used (lbs.)	
Volume of grout prepared (gal.)	7.8
Volume of grout used (gal.)	7.8

WELL SCHEMATIC*



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Well bottom could not be detached.

* Sketch in all relevant decommissioning data, including: interval overdrilled, interval grouted, casing left in hole, well stickup, etc.

Drilling Contractor

Department Representative

FIGURE 3

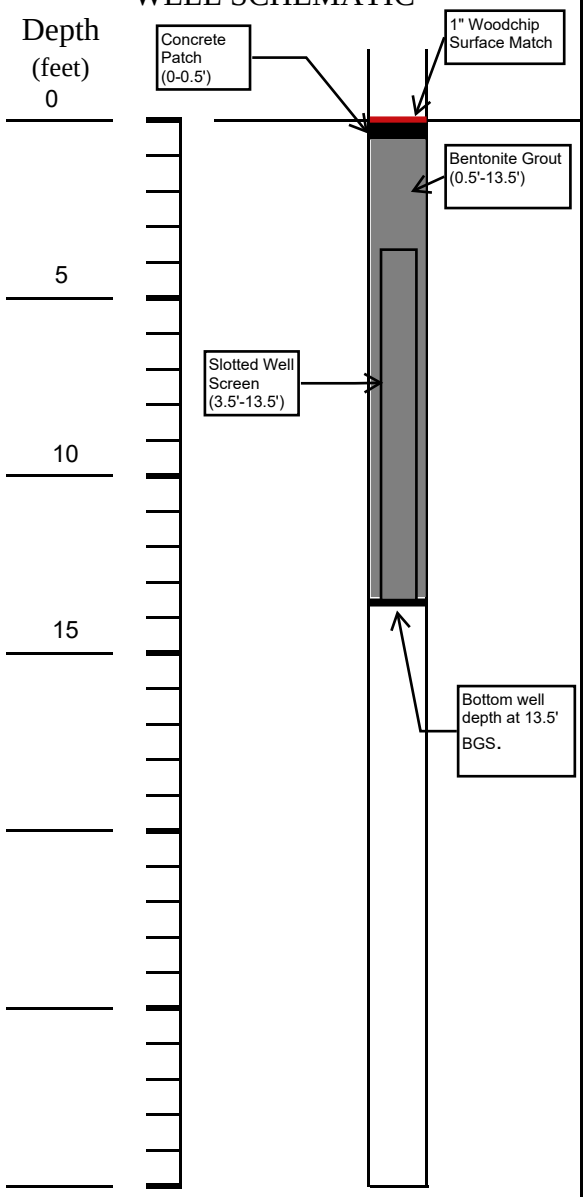
WELL DECOMMISSIONING RECORD

Site Name: Flushing Industrial Park	Well I.D.: MW-37R2
Site Location: Queens, NY	Driller: EES
Drilling Co.: Eastern Environmental Solutions (EES)	Inspector: C. Puoplo
	Date: 05/21/2019

DECOMMISSIONING DATA
(Fill in all that apply)

OVERDRILLING	
Interval Drilled	
Drilling Method(s)	
Borehole Dia. (in.)	
Temporary Casing Installed? (y/n)	
Depth temporary casing installed	
Casing type/dia. (in.)	
Method of installing	
CASING PULLING	
Method employed	Hand Pull
Casing retrieved (feet)	3.5
Casing type/dia. (in)	PVC / 2"
CASING PERFORATING	
Equipment used	
Number of perforations/foot	
Size of perforations	
Interval perforated	
GROUTING	
Interval grouted (FBLS)	0.5-13.5
# of batches prepared	1.5
For each batch record:	
Quantity of water used (gal.)	7.8
Quantity of cement used (lbs.)	94
Cement type	Type I-II Portland
Quantity of bentonite used (lbs.)	3.9
Quantity of calcium chloride used (lbs.)	
Volume of grout prepared (gal.)	7.8
Volume of grout used (gal.)	7.8

WELL SCHEMATIC*



COMMENTS: The wells were abandoned tremie grouting pre-mixed bentonite grout to 0.5' below grade. Each well was finished with concrete at grade. 10' slotted well screen grouted in place. Well bottom could not be detached.

* Sketch in all relevant decommissioning data, including: interval overdrilled, interval grouted, casing left in hole, well stickup, etc.

Drilling Contractor

Department Representative

AKRF, Inc.
440 Park Avenue South New York, NY 10016
212-696-0670

Submitted to:

NYSDEC Division of Environmental Remediation
47-20 21st Street
Long Island City, NY 11101

ANNUAL MONITORING REPORT
MAY/JUNE 2018 SAMPLING EVENT

Flushing Industrial Park

Parcels 1-3

Project Number: 30141

April 2019

Flushing Industrial Park

Parcels 1-3

FLUSHING, NEW YORK

Annual Monitoring Report

May/June 2018 Sampling Event

AKRF Project Number: 30141

Prepared for:

NYSDEC – Region 2
Division of Environmental Remediation
47-20 21st Street
Long Island City, New York 11101

Prepared by:

AKRF, Inc.
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April 2019

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1.0 INTRODUCTION

This Annual Monitoring Report has been prepared by AKRF Engineering, P.C. (AKRF) to summarize the groundwater monitoring performed at the Flushing Industrial Park (Eastern), Parcel 1 (BCP Site No. C241051), Flushing Industrial Park (Western), Parcel 2 (BCP Site No. C241078), and Flushing Industrial Park (Western Waterfront), Parcel 3 (BCP Site No. C241079), during the May 2018 sampling event. These three Parcels, in combination with Flushing Industrial Park (Flushing River), Parcel 4 (former BCP Site No. C241080), comprise approximately 13.6 acres located on the northwestern corner of College Point Boulevard and 40th Road, in Flushing, Queens, New York (collectively, the Property). The Property location is shown on Figure 1.

In 2001, C.E. Flushing, LLC (the initial Volunteer) entered into a Voluntary Cleanup Agreement with the New York State Department of Environmental Conservation (NYSDEC) with regard to the Property. By letter dated April 2, 2004, the Volunteer requested transition from the Voluntary Cleanup Program to the Brownfield Cleanup Program (BCP) for completion of the remedial program for the Property. In December 2004, the Volunteer entered into separate Brownfield Cleanup Agreements (BCAs) with NYSDEC for each of four Parcels – each one generally matching the former operable unit (OU). Amended BCAs to revise the Volunteers were executed in June 2005, December 2006, April 2007 and November 2007. Remedial activities performed in 2006 and 2007 included the removal of contaminated materials and structures (including soil, light non-aqueous phase liquid (LNAPL), ASTs and USTs, drainage structures and geophysical anomalies, as needed). The remedy also included installation of a site cover (consisting of concrete, asphalt or 2 feet of clean fill) across the site and installation of a vapor mitigation system (consisting of a vapor barrier and sub-slab depressurization system) beneath the portion of the Parcel 2 structure with retail use on the ground floor. An Environmental Easement was filed to prevent future exposure to any residual contamination remaining. In December 2007, Final Engineering Reports (FERs) and Site Management Plans (SMPs) were submitted for Parcels 1, 2 and 3, and NYSDEC granted Certificates of Completion for Parcels 1, 2 and 3.

Groundwater Monitoring and Construction Activity

Under the SMPs, post-remediation groundwater natural attenuation monitoring was performed starting in October 2006. In February 2013, NYSDEC approved a request for reduction in the list of analytical parameters (to total PCBs only) and in the sampling frequency (from quarterly to semi-annually). The change in groundwater sampling protocol was detailed in Revised SMPs, dated April 2013, which also included associated changes to the SMP text, Quality Assurance Project Plan (QAPP) Appendix, and Figure 13 - Post-Remediation Monitoring Well Plan. As requested by NYSDEC in their April 8, 2013 approval letter, the changed portions of the documents were submitted to NYSDEC and the document repository at the Queens Public Library. NYSDEC subsequently approved the reduction of groundwater sampling from a semi-annual to annual basis in November 2015; one round of annual groundwater monitoring was conducted in April 2016 prior to construction activities conducted between approximately November 2016 to May 2018 that included installation of underground utilities, the construction of the Sky View Parc (SVP) West Entrance Pavilion on the southern portions of Parcels 1 and 2, and the construction of the waterfront esplanade with upland connections on Parcel 3.

Due to the extensive ground disturbance required during this construction, groundwater sampling was not conducted in 2017 (with the approval from NYSDEC) but was performed in May and June 2018. NYSDEC approved the discontinuation of sampling of nine well locations (MW-30R4, MW-33R2, MW-35R, MW-36R2, MW-39R, MW-40R2, MW-41R2, MW-42R, and 43R3) that had shown no, or at most sporadic, detections of PCBs above the Class GA Standard, but required annual sampling of six newly repaired or replaced wells (MW-28R5, MW-31R2, MW-32R2, MW-34R3, MW-37R2, and MW-38R2) and one existing well (MW-29R5) in 2018 and annually thereafter. Details of the decommissioning and

installation of monitoring wells is presented in Section 2.0 below. NYSDEC correspondence regarding groundwater sampling is provided in Appendix C.

2.0 OPERATION AND MAINTENANCE

Sixteen groundwater monitoring wells designated MW-28 to MW-43 were originally installed between September 11 and 14, 2006, but many were damaged during construction and had to be replaced. Replacement wells were identified with an "R" (e.g., MW-43R). If the well was replaced more than once, it was identified with an "R" and a number (e.g., MW-43R2). Locations of wells are depicted on Figure 2. Thirteen wells were reinstalled from October 11 and 14, 2011: MW-28R5, MW-29R5, MW-30R4, MW-31R, MW-32R, MW-33R2, MW-34R2, MW-35R, MW-36R2, MW-37R, MW-38R, MW-39R, and MW-40R2. Well depths varied from 12 to 14.4 feet below grade.

In accordance with NYSDEC's May 4, 2018 letter, Eastern Environmental Solutions of Manorville, New York reinstalled five wells MW-31R2, MW-32R2, MW-34R3, MW-37R2, and MW-38R2 using a direct push rig on May 14 and 15, 2018. MW-28R5 was repaired, eliminating the need for its originally contemplated replacement. Wells MW-30R4, MW-39R, MW-41R2, MW-42R2, and MW-43R3 were abandoned in accordance with *NYSDEC CP-43: Groundwater Monitoring Well Decommissioning Policy*. Wells MW-33R2, MW-35R, MW-36R2, and MW-40R2 were destroyed during construction in 2017 and 2018. Well depths varied from 13 to 15 feet.

New wells were constructed with 2-inch diameter PVC including a 10-foot long 20-slot screen with a one-foot capped solid PVC beneath the screen to act as a sump. No soil cuttings were generated due to the direct push drilling method.

Sampling of the five newly installed and two existing wells occurred between May 21 and June 4, 2018, following well development activities.

Well locations are shown on Figure 2. The well reinstallation logs, well development logs, and well decommissioning logs are included in Appendix A.

3.0 MONITORING ACTIVITIES

3.1 Groundwater Sampling Methodology

Between May 21 and June 4, 2018, groundwater samples were collected from the five newly installed and two existing wells (MW-28R5, MW-29R5, MW-31R2, MW-32R2, MW-34R3, MW-37R2, and MW38R2). Low flow purging and sampling techniques were used, per Appendix K of the May 2014 SMP, which was based on U.S. EPA's *Ground-Water Sampling Guidelines for Superfund and RCRA Project Managers* [EPA 542-S-02-001, May 2002].

Following reinstallation, the new wells were developed using dedicated polyethylene tubing connected to a submersible "whale" pump. During development, the water was monitored approximately every minute for turbidity and water quality indicators (pH, temperature, dissolved oxygen, reduction-oxidation potential, and specific conductivity). Development continued until turbidity was less than 50 nephelometric turbidity units (NTUs) for three successive readings or until water quality indicators stabilized to within 10 percent for pH, temperature, and specific conductivity for three successive readings. If neither was achieved, then at least three well volumes were purged. During development, turbidity readings of less than 50 NTUs were achieved at MW-34R3, MW-37R2, and MW-38R2, but not MW-31R2 or MW-32R2. A slight

petroleum-like sheen and odors were noted on purge water from MW-31R2, MW-32R2, and MW-28R5; however, these may have been related to ongoing dredging activities being conducted by Consolidated-Edison in the adjacent Flushing River.

During groundwater sampling on May 22 and 23, 2018, no odors or petroleum-like sheen were noted on groundwater while sampling MW-28R5 and only faint organic-like odors and sheen were noted on groundwater at MW-31R2 and MW-32R2. Samples were then collected in laboratory-supplied glassware, labeled and placed in a chilled cooler or refrigerator in a secure location for pickup by the laboratory.

On October 19, 2018, AKRF returned to the Property to gauge MW-31R2 and MW-32R2 for the presence of LNAPL. No sheen or measurable LNAPL was detected in either well using an oil/water interface probe.

In accordance with the modified sampling protocol of April 2013, samples were analyzed for PCBs using EPA Method 8082, at TestAmerica Laboratories, Inc. of Edison, New Jersey, a New York State Department of Health (NYSDOH) Environmental Laboratory Approval Program (ELAP)-certified laboratory. Category B deliverables were provided.

Sampling activities were recorded in a field book and on logs presented in Appendix A. Other pertinent observations (e.g., field screening results, sampling personnel, and well integrity) were noted on the logs.

Quality assurance/quality control (QA/QC) sampling included the following:

- One equipment blank (labeled CE-EB-73); and
- One blind duplicate sample collected from monitoring well MW-28R5 (labeled MW-28R5A).

4.0 INVESTIGATION DERIVED WASTE AND DRUM DISPOSAL

4.1 Groundwater Drum Disposal

Development/purge water was containerized in 55-gallon Department of Transportation (DOT) drums and labeled accordingly. The groundwater analytical data was used for waste disposal purposes and on September 4, 2018, six drums of development/purge water were picked up by Brookside Environmental Inc. (Brookside), of Copiague, New York, and transported off-site for disposal at Clean Water of New York, located in Staten Island, New York. A copy of the drum disposal manifest is provided in Appendix D.

During the well gauging event on October 19, 2018, approximately 10 gallons of purge water were generated and containerized in a 55-gallon DOT drum, labeled accordingly, and stored in a secure location [pending possible use during the 2019 sampling event (if required), characterization, and disposal at an appropriate facility].

5.0 FINDINGS AND CONCLUSIONS

5.1 Groundwater Table Elevations

Depth to the water table ranged from 2.65 to 7.08 feet below ground surface.

Groundwater flow direction is expected to be generally to the west, toward the west-adjacent Flushing River; however, actual groundwater flow is likely tidally influenced, and there is interlocking sheeting along the waterfront.

5.2 Groundwater Analytical Results

Historical groundwater analytical results for PCBs are summarized in Table 2 with only the more recent results in Table 3. The full laboratory data from this sampling event is provided in Appendix B. Results were compared to the NYSDEC Class GA (Drinking Water) Ambient Water Quality Standard for total PCBs of 0.09 parts per billion (ppb). Four of the seven wells exceeded this threshold:

- MW-29R5: 0.097 ppb (higher than the 0.52 ppb in 2016)
- MW-31R2: 0.28 ppb (higher than the 0.046 ppb in 2016)
- MW-32R2: 1.7 ppb (lower than the 12.7 ppb in 2016)
- MW-37R2: 0.1 ppb (lower than the 0.11 ppb in 2016)

Additionally, the other three wells have shown significantly decreased concentrations and/or continued to be below the threshold:

- MW-28R5: <0.09 ppb for the last 2 sampling events.
- MW-34R3: <0.09 ppb for the last 3 sampling events.
- MW-38R2: <0.09 ppb for the last 2 sampling events.

5.3 Request to Permanently Discontinue Groundwater Monitoring

Over 20 rounds of groundwater sampling have been conducted since the remediation. The data from the May 2018 sampling indicated generally decreasing PCB levels compared to the previous sampling. In January 2007, soon after the majority of remedial excavation was complete, PCBs above the Class GA Standard were found in 12 of 16 wells; exceedances were detected in only 4 wells in May/June 2018.

AKRF is requesting discontinuation of groundwater monitoring, given that:

- NAPL is no longer present (and has not been detected since prior to February 2008);
- The 2018 sampling data indicate generally decreasing PCB levels (with at most minor exceedances of the Class GA Standard);
- Subsurface disturbance of the Property has been completed; and
- Exposure to groundwater is prevented via institutional and engineering controls: the Environmental Easement restricts groundwater use and the Property has an engineered cover.

Remaining monitoring wells would be decommissioned in accordance with procedures outlined *in NYSDEC CP-43: Groundwater Monitoring Well Decommissioning Policy.*

TABLES

Flushing Industrial Park

Table 1

Well Installation Details and Groundwater Measurements

Well	Parcel	Date of Installation	Total Depth of Well (ft below TOC)	Depth Interval of Screen (ft below TOC)	Top of Casing Elevation	Measured Depth to Groundwater (feet below top of PVC casing)										
						10/3-16/06	10/24/06			11/14/06	11/22/06	1/2/07	1/22/07	2/20/07	4/13/07	4/17 -25/07
MW-28	3	9/12/2006	14.25	3.25-13.25	7.07	4.66	4.51	4.53	4.53	3.52	4.18	3.51	4.81	6.25	3.42	4.34
MW-28R	3	2/2/2008	17.29	6.3-16.3	8.56	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-28R2	3	5/15/2008	15.15	4.15-14.15	9.61	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-28R3	3	7/30/2008	15.02	4.02-14.02	8.02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-28R4	3	2/24/2009	17.28	6.28-16.28	6.17	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-28R5	3	10/13/2011	13.53	2.53-12.53	6.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-29	3	9/14/2006	14.39	3.39-13.39	7.07	3.69	4.59	4.60	4.60	3.62	4.29	3.56	4.88	6.28	3.49	4.64
MW-29R	3	2/2/2008	17.11	6.1-16.1	8.49	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-29R2	3	5/15/2008	15.20	4.20-14.20	6.29	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-29R3	3	7/30/2008	16.48	4.48-14.48	7.42	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-29R4	3	2/24/2009	16.12	5.12-15.12	6.74	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-29R5	3	10/13/2011	13.55	2.55-12.55	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-30	3	9/12/2006	15.55	4.55-14.55	7.07	3.67	4.58	4.59	4.60	3.61	4.29	3.55	4.90	6.25	3.41	4.61
MW-30R	3	2/2/2008	17.44	6.4-16.4	8.29	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-30R2	3	5/15/2008	15.09	4.09-14.09	8.26	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-30R3	3	2/24/2009	15.23	4.23-14.23	6.97	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-30R4	3	10/13/2011	13.69	2.69-12.69	5.89	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-31	3	9/15/2006	15.6	4.60-14.60	8.15	5.44	5.58	5.58	5.28	4.72	5.19	4.89	5.51	6.15	4.89	5.33
MW-31R	3	10/13/2011	12.8	1.80-11.80	5.68	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-31R2	3	5/15/2018	14.05	3.05-13.05	?	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-32	3	9/12/2006	15.75	4.75-14.75	8.74	5.75	5.42	5.41	5.29	4.55	5.12	4.36	5.56	6.91	4.05	4.95
MW-32R	3	10/12/2011	12.46	1.46-11.46	5.48	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-32R	3	10/12/2011	12.46	1.46-11.46	?	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-32R2	3	5/15/2018	14.95	3.95-13.95	?	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-33	3	9/11/2006	15.06	4.06-14.06	7.52	5.35	5.38	5.36	5.32	4.51	5.14	4.35	5.57	7.06	4.11	4.96
MW-33R	3	2/1/2008	17.33	6.3-16.3	9.78	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-33R2	3	10/13/2011	13.70	2.70-12.70	5.82	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-34	3	9/11/2006	15.64	4.64-14.64	8.91	6.84	6.61	6.59	6.59	6.12	6.61	5.84	6.92	8.36	5.51	5.99
MW-34R	3	1/31/2008	17.29	6.3-16.3	9.88	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-34R2	3	10/12/2011	13.43	2.43-13.43	4.7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-34R3	3	5/15/2018	14.93	3.93-13.93	?	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-35	3	9/11/2006	14.73	3.73-13.73	7.49	5.94	5.18	5.18	5.19	4.72	5.25	4.48	5.55	7.03	4.20	4.62
MW-35R	3	10/12/2011	12.6	1.60-11.60	5.88	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-36	3	9/13/2006	15.13	4.13-14.13	8.75	7.21	6.37	6.39	6.40	5.91	6.45	5.69	6.75	8.33	5.46	5.52
MW-36R	3	1/30/2008	17.18	6.2-16.2	7.17	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-36R2	3	10/12/2011	13.56	2.56-12.56	5.79	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-37	3	9/13/2006	18.03	7.03-17.03	9.09	7.05	6.61	6.55	6.51	6.34	6.86	5.98	6.86	8.52	5.43	5.71
		9/17/2007	14.95	3.95-13.95	6.01											
MW-37R	3	10/12/2011	12.06	1.06-11.06	5.45	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-37R2	3	5/14/2018	12.06	1.06-11.06	?	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-38	3	9/13/2006	13.4	2.40-12.40	7.33	4.76	5.54	5.51	5.11	4.75	4.89	4.89	4.89	5.16	4.94	3.96
MW-38R	3	10/12/2011	12.54	1.54-11.54	5.34	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-38R2	3	5/14/2018	12.54	1.54-11.54	?	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-39	2	9/14/2006	16.19	5.19-15.19	8.45	7.21	7.51	7.36	7.37	6.81	7.29	6.72	7.26	7.91	6.47	6.67
MW-39R	2	10/11/2011	13.87	2.87-12.87	4.98	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-40	1	9/14/2006	15.7	4.70-14.70	10.11	9.00	8.97	8.96	8.97	8.47	8.81	8.08	8.81	9.61	8.18	6.62
MW-40R	1	2/24/2009	15.23	4.23-14.23	7.71	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-40R2	1	10/11/2011	14.38	3.38-13.38	6.31	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-41	1	9/14/2006	11.98	0.98-10.98	6.46	5.02	5.04	5.03	5.04	4.39	4.91	4.16	4.97	5.51	3.86	4.91
MW-41R	1	9/17/2007	15.00	4.0-14.0	5.07	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-41R2	1	1/30/2008	17.44	6.4-16.4	5.93	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-41R3	1	?	?	?	?	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-42	1	9/14/2006	15.70	4.70-14.70	11.92	10.43	10.38	10.39	10.39	10.04	10.29	9.59	10.29	10.78	9.31	9.96
MW-42R	1	1/29/2008	18.99	7.9-17.9	6.23	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-42R2	1	?	?	?	?	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-43	1	9/14/2006	15.75	4.75-14.75	13.35	11.02	10.69	10.67	10.63	10.69	9.89	10.23	10.64	11.59	NM	NM
MW-43R	1	1/29/2008	16.45	5.5-15.5	10.7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-43R2	1	7/31/2008	18.89	7.89-17.89	11.96	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-43R3	1	2/24/2009	17.16	6.16-16.16	7.49	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Flushing Industrial Park
Table 1
Well Installation Details and Groundwater Measurements

Well	Measured Depth to Groundwater (feet below top of PVC casing)																			
	5/23/07	7/2/07	8/22/07	9/13/07	9/27/07	10/15-10/18/07	11/6/07	12/12/07	1/8/08	2/13-2/15/08	4/1/08	4/15/08	5/7/08	5/15-5/21/08	6/9/08	7/1/08	7/24/08	8/11-8/18/08	10/1/08	10/14/08
MW-28	6.54	6.18	4.34	4.90	4.80	4.62	6.11	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-28R	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.89	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-28R2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.48	NA	NA	NA	NA	NA	NA
MW-28R3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.35	NA	NA
MW-28R4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-28R5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-29	6.60	6.23	4.39	4.98	4.82	4.68	6.21	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-29R	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.95	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-29R2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-29R3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4.52	NA	NA
MW-29R4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-29R5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-30	6.50	6.12	4.17	4.82	4.86	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-30R	NA	NA	NA	NA	NA	NA	NA	NA	NA	6.25	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-30R2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4.91	NA	5.25	4.32	NA	NA	NA
MW-30R3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-30R4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-31	6.60	5.92	4.99	5.42	4.66	5.23	5.58	5.39	5.61	6.92	8.65	7.74	5.01	4.91	NA	3.05	4.67	5.32	4.47	NA
MW-31R	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-31R2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-32	7.21	6.75	4.76	5.49	4.60	5.29	6.91	5.13	6.49	4.23	7.11	6.79	5.11	NA	5.2	NA	3.56	6.56	5.08	6.11
MW-32R	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-32R	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-32R2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-33	7.19	6.61	4.91	5.81	5.59	NA	6.82	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-33R	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.21	9.22	9.11	7.72	6.39	5.11	6.69	5.91	4.97	5.84	7.17
MW-33R2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-34	8.65	8.11	6.41	7.31	7.56	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-34R	NA	NA	NA	NA	NA	NA	NA	NA	NA	11.37	9.21	9.12	7.81	6.45	4.51	6.72	4.85	4.92	5.99	7.15
MW-34R2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-34R3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-35	7.30	6.84	5.07	9.04	9.45	5.66	8.21	5.12	7.51	4.89	6.71	6.61	5.35	4.1	7.2	4.35	4.81	4.96	3.49	4.75
MW-35R	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-36	8.49	8.02	9.31	7.32	7.26	6.89	9.14	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-36R	NA	NA	NA	NA	NA	NA	NA	NA	NA	6.17	8.02	7.98	6.82	5.53	7.23	5.91	4.86	6.44	5.73	6.22
MW-36R2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-37	8.66	8.24	6.68	7.25	7.50	4.78	5.31	3.75	4.18	2.24	3.71	3.78	4.78	4.13	4.81	2.61	1.68	3.41	1.81	3.02
MW-37R	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-37R2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-38	6.07	6.20	4.99	5.25	2.84	5.66	5.44	5.01	5.96	7.49	6.22	5.59	4.99	6.00	6.28	5.00	4.89	5.45	4.48	4.85
MW-38R	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-38R2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-39	8.51	8.06	6.37	7.26	6.77	8.67	6.86	6.58	7.36	5.97	6.88	7.15	6.31	6.34	3.18	6.06	5.95	6.56	5.91	6.49
MW-39R	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-40	11.17	9.43	8.20	8.40	8.84	9.06	7.98	8.37	10.96	7.86	8.89	9.15	8.75	7.98	5.58	5.1	4.92	7.55	NA	NA
MW-40R	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-40R2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-41	8.04	5.82	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-41R	NA	NA	NA	NA	4.24	4.45	3.48	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-41R2	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.72	9.04	9.37	9.01	8.43	5.97	8.16	7.3	8.86	7.11	8.51
MW-41R3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-42	11.48	10.95	9.71	9.81	10.34	10.46	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-42R	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.07	9.72	10.05	9.82	9.12	9.17	8.9	7.82	9.58	7.71	9.36
MW-42R2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-43	11.10	11.10	10.86	10.62	9.98	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-43R	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.70	8.71	8.42	8.86	8.91	9.12	8.78	NA	NA	NA	NA
MW-43R2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.8	9.84	9.48
MW-43R3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Flushing Industrial Park

Table 1

Well Installation Details and Groundwater Measurements

Well	Measured Depth to Groundwater (feet below top of PVC casing)																
	11/1/08	11/19-11/20/08	12/29/08	2/3/09	2/27/09	3/19/09	4/29/09	5/19/09	7/2/09	7/29/09	8/18/09	10/5/09	11/7/09	11/20 - 11/25/11	01/30 - 2/3/12	4/3-4/6/2012	10/21-10/22/13
MW-28	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-28R	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-28R2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-28R3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-28R4	NA	NA	NA	NA	4.38	4.62	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-28R5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4.72	5.20	6.20	5.15
MW-29	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-29R	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-29R2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-29R3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-29R4	NA	NA	NA	NA	4.32	4.58	3.62	3.59	2.99	3.29	NA	NA	NA	NA	NA	NA	NA
MW-29R5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.51	3.91	3.9	3.88
MW-30	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-30R	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-30R2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-30R3	NA	NA	NA	NA	4.55	4.83	5.74	3.82	3.28	3.52	NA	NA	NA	NA	NA	NA	NA
MW-30R4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4.12	4.72	4.78	4.76
MW-31	NA	NA	NA	NA	6.19	6.46	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-31R	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.55	4.63	4.1	4.49
MW-31R2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-32	5.89	NA	NA	NA	6.46	6.76	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-32R	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4.24	4.56	4.57	4.53
MW-32R	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-32R2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-33	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-33R	6.95	6.67	6.11	7.08	7.52	7.90	6.82	6.76	6.13	6.51	7.46	7.26	7.79	NA	NA	NA	NA
MW-33R2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4.53	4.99	4.90	5.00
MW-34	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-34R	6.94	6.55	6.04	6.99	7.51	7.82	6.76	6.71	6.19	6.49	7.45	7.24	8.14	NA	NA	NA	NA
MW-34R2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.62	3.95	4.90	3.84
MW-34R3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-35	5.51	4.18	3.65	4.59	5.12	5.41	4.39	4.35	3.76	4.15	5.11	4.82	6.39	NA	NA	NA	NA
MW-35R	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4.78	5.11	5.05	5.05
MW-36	5.59	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-36R	5.59	5.64	5.11	6.06	4.91	5.19	4.19	4.11	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-36R2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.01	4.99	4.74	3.41
MW-37	2.62	2.23	0.91	2.41	3.22	3.65	2.69	2.61	3.18	5.53	4.36	NA	NA	NA	NA	NA	NA
MW-37R	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4.49	4.78	4.26	3.79
MW-37R2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-38	5.29	5.14	5.06	4.99	5.40	6.36	5.26	5.59	5.91	6.28	6.49	6.31	6.21	NA	NA	NA	NA
MW-38R	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4.59	5.02	2.81	4.29
MW-38R2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-39	6.54	6.5	6.41	NA	6.41	6.70	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-39R	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.99	6.21	5.60	5.05
MW-40	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-40R	NA	NA	NA	NA	6.72	7.16	6.46	6.26	5.71	5.47	6.32	6.56	6.68	NA	NA	NA	NA
MW-40R2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.21	7.79	7.71	7.72
MW-41	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-41R	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-41R2	8.69	8.61	7.78	8.81	9.24	9.36	8.11	7.84	6.51	5.89	7.31	4.52	4.61	5.57	6.11	6.40	6.52
MW-41R3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-42	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-42R	9.34	9.24	8.32	8.32	9.92	10.02	9.64	9.36	8.68	7.98	9.49	5.56	5.59	5.44	5.44	6.06	NA
MW-42R2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-43	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-43R	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-43R2	10.46	10.31	10.16	10.16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-43R3	NA	NA	NA	NA	9.65	9.85	9.78	9.73	9.89	9.51	9.65	NA	NA	6.46	6.88	7.39	8.21

Flushing Industrial Park

Table 1

Well Installation Details and Groundwater Measurements

Well	Measured Depth to Groundwater (feet below top of PVC casing)					Groundwater Elevation												
	4/15-4/17/14	10/16-10/17/14	4/27-4/28/15	4/28-4/29/16	5/23 to 6/4/18	10/3-16/06	10/24/06			11/14/06	11/22/06	1/2/07	1/22/07	2/20/07	4/13/07	4/17 -25/07	5/23/07	7/2/07
MW-28	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-28R	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-28R2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-28R3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-28R4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-28R5	4.89	4.86	4.79	4.99	4.99	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-29	NA	NA	NA	NA	NA	3.38	2.48	2.47	2.47	3.45	2.78	3.51	2.19	0.79	3.58	2.43	0.47	2.68
MW-29R	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-29R2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-29R3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-29R4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-29R5	3.43	3.59	3.56	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-30	NA	NA	NA	NA	NA	3.40	2.49	2.48	2.47	3.46	2.78	3.52	2.17	0.82	3.66	2.46	0.57	2.90
MW-30R	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-30R2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-30R3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-30R4	4.45	4.49	4.46	4.64	4.64	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-31	NA	NA	NA	NA	NA	2.71	2.57	2.57	2.87	3.43	2.96	3.26	2.64	2.00	3.26	2.82	1.55	2.73
MW-31R	4.2	4.4	NA	4.38	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-31R2	NA	NA	NA	NA	4.38	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-32	NA	NA	NA	NA	NA	2.99	3.32	3.33	3.45	4.19	3.62	4.38	3.18	1.83	4.69	3.79	1.53	3.25
MW-32R	4.39	4.34	4.31	4.41	4.41	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-32R	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-32R2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-33	NA	NA	NA	NA	NA	2.17	2.14	2.16	2.20	3.01	2.38	3.17	1.95	0.46	3.41	2.56	0.33	1.71
MW-33R	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-33R2	4.78	4.79	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-34	NA	NA	NA	NA	NA	2.07	2.30	2.32	2.32	2.79	2.30	3.07	1.99	0.55	3.40	2.92	0.26	1.60
MW-34R	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-34R2	3.75	3.75	3.75	6.95	6.95	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-34R3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-35	NA	NA	NA	NA	NA	1.55	2.31	2.31	2.30	2.77	2.24	3.01	1.94	0.46	3.29	2.87	0.19	-1.55
MW-35R	5.02	5.05	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-36	NA	NA	NA	NA	NA	1.54	2.38	2.36	2.35	2.84	2.30	3.06	2.00	0.42	3.29	3.23	0.26	-0.56
MW-36R	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-36R2	5.31	5.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-37	NA	NA	NA	NA	NA	2.04	2.48	2.54	2.58	2.75	2.23	3.11	2.23	0.57	3.66	3.38	0.43	1.84
MW-37R	5.9	5.39	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-37R2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-38	NA	NA	NA	NA	NA	2.57	1.79	1.82	2.22	2.58	2.44	2.44	2.44	2.17	2.39	3.37	1.26	2.08
MW-38R	4.21	4.43	4.51	4.71	4.71	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-38R2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-39	NA	NA	NA	NA	NA	1.24	0.94	1.09	1.08	1.64	1.16	1.73	1.19	0.54	1.98	1.78	-0.06	1.19
MW-39R	5.30	4.67	5.59	6.14	6.14	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-40	NA	NA	NA	NA	NA	1.11	1.14	1.15	1.14	1.64	1.30	2.03	1.30	0.50	1.93	3.49	-1.06	1.71
MW-40R	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-40R2	7.51	7.42	7.70	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-41	NA	NA	NA	NA	NA	1.44	1.42	1.43	1.42	2.07	1.55	2.30	1.49	0.95	2.60	1.55	-1.58	0.64
MW-41R	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-41R2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-41R3	6.19	NA	6.05	6.21	6.21	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-42	NA	NA	NA	NA	NA	1.49	1.54	1.53	1.53	1.88	1.63	2.33	1.63	1.14	2.61	1.96	0.44	2.11
MW-42R	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-42R2	5.91	5.80	5.68	5.84	5.84	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-43	NA	NA	NA	NA	NA	2.33	2.66	2.68	2.72	2.66	3.46	3.12	2.71	1.76	NM	NM	2.25	2.73
MW-43R	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-43R2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-43R3	7.18	7.00	7.02	7.08	7.08	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Flushing Industrial Park

Table 1

Well Installation Details and Groundwater Measurements

Well	Groundwater Elevation																		
	8/22/07	9/13/07	9/27/07	10/15-10/18/07	11/6/07	12/12/07	1/8/08	2/13-2/15/08	4/1/08	4/15/08	5/7/08	5/15-5/21/08	6/9/08	7/1/08	7/24/08	8/11-8/18/08	10/1/08	10/14/08	11/11/08
MW-28	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-28R	NA	NA	NA	NA	NA	NA	NA	-2.33	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-28R2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-28R3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.67	NA	NA	NA
MW-28R4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-28R5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-29	-1.29	2.09	2.25	2.39	0.86	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-29R	NA	NA	NA	NA	NA	NA	NA	-1.46	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-29R2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-29R3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.90	NA	NA	NA
MW-29R4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-29R5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-30	-1.15	2.25	2.21	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-30R	NA	NA	NA	NA	NA	NA	NA	2.04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-30R2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.01	3.94	NA	NA	NA	NA
MW-30R3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-30R4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-31	0.02	2.73	3.49	2.92	2.57	2.76	2.54	1.23	-0.50	0.41	3.14	3.14	NA	NA	3.48	2.83	0.97	NA	NA
MW-31R	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-31R2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-32	0.26	3.25	4.14	3.45	1.83	3.61	2.25	4.51	1.63	1.95	3.63	NA	3.54	NA	5.18	2.18	0.67	2.63	2.85
MW-32R	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-32R	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-32R2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-33	-0.46	1.71	1.93	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-33R	NA	NA	NA	NA	NA	NA	NA	2.57	0.56	0.67	2.06	3.39	4.67	3.09	3.87	4.81	3.94	2.61	2.83
MW-33R2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-34	-0.47	1.60	1.35	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-34R	NA	NA	NA	NA	NA	NA	NA	-1.49	0.67	0.76	2.07	3.43	5.37	3.16	5.03	4.96	3.89	2.73	2.94
MW-34R2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-34R3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-35	-3.10	-1.55	-1.96	1.83	-0.72	2.37	-0.02	2.60	0.78	0.88	2.14	3.39	0.29	3.14	2.68	2.53	2.45	0.43	1.98
MW-35R	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-36	-0.11	1.43	1.49	1.86	-0.39	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-36R	NA	NA	NA	NA	NA	NA	NA	1.00	-0.85	-0.81	0.35	1.64	-0.06	1.26	2.31	0.73	1.44	0.95	1.58
MW-36R2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-37	-0.20	1.84	-1.49	1.23	0.70	2.26	1.83	3.77	2.30	2.23	1.23	1.88	1.2	3.4	4.33	2.6	4.2	2.99	3.39
MW-37R	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-37R2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-38	-0.49	2.08	4.49	1.67	1.89	2.32	1.37	-0.16	1.11	1.74	2.34	1.33	1.05	2.33	2.44	1.88	0.28	0.69	0.22
MW-38R	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-38R2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-39	-0.05	1.19	1.68	-0.22	1.59	1.87	1.09	2.48	1.57	1.30	2.14	2.11	5.27	2.39	2.50	1.89	1.3	1.02	0.82
MW-39R	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-40	0.60	1.71	1.27	1.05	2.13	1.74	-0.85	2.25	1.22	0.96	1.36	2.13	4.53	5.01	5.19	2.56	NA	NA	NA
MW-40R	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-40R2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-41	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-41R	NA	NA	0.83	0.62	1.59	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-41R2	NA	NA	NA	NA	NA	NA	NA	1.36	0.04	-0.29	0.07	0.65	3.11	0.92	1.78	0.22	1.97	0.57	0.39
MW-41R3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-42	0.62	2.11	1.58	1.46	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-42R	NA	NA	NA	NA	NA	NA	NA	1.35	1.70	1.37	1.60	2.3	2.25	2.52	3.6	1.84	3.71	2.06	2.08
MW-42R2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-43	0.40	2.73	3.37	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-43R	NA	NA	NA	NA	NA	NA	NA	5.00	1.99	2.28	1.84	1.79	1.58	1.92	NA	NA	NA	NA	NA
MW-43R2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.16	2.12	2.48	1.5
MW-43R3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Flushing Industrial Park
Table 1
Well Installation Details and Groundwater Measurements

Well	Groundwater Elevation															
	11/19-11/20/08	12/29/08	2/3/09	2/27/09	3/19/09	4/29/09	5/19/09	7/2/09	7/29/09	8/18/09	10/5/09	11/7/09	11/20 to 11/25/11	1/30 - 2/3/12	4/3-4/6/2012	10/21-10/22/13
MW-28	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-28R	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-28R2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-28R3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-28R4	NA	NA	NA	1.79	1.55	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-28R5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.58	1.10	0.10	1.15
MW-29	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-29R	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-29R2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-29R3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-29R4	NA	NA	NA	2.42	2.16	3.12	3.15	3.75	3.45	NA	NA	NA	NA	NA	NA	NA
MW-29R5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.49	1.09	1.1	1.12
MW-30	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-30R	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-30R2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-30R3	NA	NA	NA	2.42	2.14	1.23	3.15	3.69	3.45	NA	NA	NA	NA	NA	NA	NA
MW-30R4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.77	1.17	1.11	1.13
MW-31	NA	NA	NA	1.96	1.69	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-31R	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.13	1.05	1.58	1.19
MW-31R2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-32	NA	NA	NA	2.55	2.28	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-32R	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.24	0.92	0.91	0.95
MW-32R	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-32R2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-33	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-33R	3.11	3.67	2.70	2.26	1.88	2.96	3.02	3.65	3.27	2.32	2.52	1.99	NA	NA	NA	NA
MW-33R2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.29	0.83	0.92	0.82
MW-34	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-34R	3.33	3.84	2.89	2.37	2.06	3.12	3.17	3.69	3.39	2.43	2.64	1.74	NA	NA	NA	NA
MW-34R2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.08	0.75	-0.20	0.86
MW-34R3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-35	3.31	3.84	1.35	2.37	2.08	3.10	3.14	3.73	3.34	2.38	2.67	1.10	NA	NA	NA	NA
MW-35R	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.1	0.77	0.83	0.83
MW-36	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-36R	1.53	2.06	1.11	2.26	1.98	2.98	3.06	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-36R2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.78	0.80	1.05	2.38
MW-37	3.78	5.10	3.60	2.79	2.36	3.32	3.40	3.69	3.45	2.32	NA	NA	NA	NA	NA	NA
MW-37R	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.96	0.67	1.19	1.66
MW-37R2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-38	2.19	2.27	2.34	1.93	0.97	2.07	1.74	1.42	1.05	0.84	1.02	1.12	NA	NA	NA	NA
MW-38R	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.75	0.32	2.53	1.05
MW-38R2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-39	1.95	2.04	NA	2.04	1.75	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-39R	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	-1.01	-1.23	-0.62	-0.07
MW-40	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-40R	NA	NA	NA	0.99	0.55	1.25	1.45	2	2.24	1.39	1.15	1.03	NA	NA	NA	NA
MW-40R2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	-0.9	-1.48	-1.40	-1.41
MW-41	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-41R	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-41R2	0.47	1.30	0.27	-0.16	-0.28	0.97	1.24	2.57	3.19	1.77	4.56	4.47	0.36	-0.18	-0.47	-0.59
MW-41R3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-42	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-42R	2.18	3.10	3.10	1.50	1.40	1.78	2.06	2.74	3.44	1.93	5.86	5.83	0.79	0.79	0.17	NA
MW-42R2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-43	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-43R	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-43R2	1.65	1.80	1.80	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-43R3	NA	NA	NA	2.17	1.97	2.04	2.09	1.93	2.31	2.17	NA	NA	1.03	0.61	0.10	-0.72

Flushing Industrial Park

Table 1

Well Installation Details and Groundwater Measurements

Well	Groundwater Elevation					Groundwater Elevation Summary			
	4/15-4/17/14	10/16-10/17/14	4/27-4/28/15	4/28-4/29/16	5/238-6/24/18	MAX	MIN	AVG	Total Variation
MW-28	NA	NA	NA	NA	NA	0.00	0.00	NA	0.0
MW-28R	NA	NA	NA	NA	NA	-2.33	-2.33	-2.33	0.0
MW-28R2	NA	NA	NA	NA	NA	0.00	0.00	NA	0.0
MW-28R3	NA	NA	NA	NA	NA	2.67	2.67	2.67	0.0
MW-28R4	NA	NA	NA	NA	NA	1.79	1.55	1.67	0.2
MW-28R5	1.41	1.44	1.51	1.31	NA	1.58	0.10	1.20	1.5
MW-29	NA	NA	NA	NA	NA	3.58	-1.29	2.17	4.9
MW-29R	NA	NA	NA	NA	NA	-1.46	-1.46	-1.46	0.0
MW-29R2	NA	NA	NA	NA	NA	0.00	0.00	NA	0.0
MW-29R3	NA	NA	NA	NA	NA	2.90	2.90	2.90	0.0
MW-29R4	NA	NA	NA	NA	NA	3.75	2.16	3.01	1.6
MW-29R5	1.57	1.41	1.44	NA	NA	1.57	1.09	1.32	0.5
MW-30	NA	NA	NA	NA	NA	3.66	-1.15	2.28	4.8
MW-30R	NA	NA	NA	NA	NA	2.04	2.04	2.04	0.0
MW-30R2	NA	NA	NA	NA	NA	3.94	3.01	3.48	0.9
MW-30R3	NA	NA	NA	NA	NA	3.69	1.23	2.68	2.5
MW-30R4	1.44	1.4	1.43	1.25	NA	1.77	1.11	1.34	0.7
MW-31	NA	NA	NA	NA	NA	3.49	-0.50	2.36	4.0
MW-31R	1.48	1.28	NA	NA	1.3	2.13	1.05	1.43	1.1
MW-31R2	NA	NA	NA	NA	NA				
MW-32	NA	NA	NA	NA	NA	5.18	0.26	3.00	4.9
MW-32R	1.09	1.14	1.17	1.07	1.07	1.24	0.91	1.06	0.3
MW-32R	NA	NA	NA	NA	NA				
MW-32R2	NA	NA	NA	NA	NA				
MW-33	NA	NA	NA	NA	NA	3.41	-0.46	1.93	3.9
MW-33R	NA	NA	NA	NA	NA	4.81	0.56	2.85	4.3
MW-33R2	1.04	1.03	NA	NA	NA	1.29	0.82	0.99	0.5
MW-34	NA	NA	NA	NA	NA	3.40	-0.47	1.90	3.9
MW-34R	NA	NA	NA	NA	NA	5.37	-1.49	2.84	6.9
MW-34R2	0.95	0.95	0.95	-2.25	-2.25	1.08	-2.25	0.09	3.3
MW-34R3	NA	NA	NA	NA	NA				
MW-35	NA	NA	NA	NA	NA	3.84	-3.10	1.73	6.9
MW-35R	0.86	0.83	NA	NA	NA	1.10	0.77	0.87	0.3
MW-36	NA	NA	NA	NA	NA	3.29	-0.56	1.65	3.9
MW-36R	NA	NA	NA	NA	NA	3.06	-0.85	1.29	3.9
MW-36R2	0.48	0.76	NA	NA	NA	2.38	0.48	1.04	1.9
MW-37	NA	NA	NA	NA	NA	5.10	-1.49	2.46	6.6
									0.0
MW-37R	-0.45	0.06	NA	NA	NA	1.66	-0.45	0.68	2.1
MW-37R2	NA	NA	NA	NA	NA				
MW-38	NA	NA	NA	NA	NA	4.49	-0.49	1.75	5.0
MW-38R	1.13	0.91	0.83	0.63	0.63	2.53	0.32	0.98	2.2
MW-38R2	NA	NA	NA	NA	NA				
MW-39	NA	NA	NA	NA	NA	5.27	-0.22	1.53	5.5
MW-39R	-0.32	0.31	-0.61	-1.16	-1.16	0.31	-1.23	-0.65	1.5
MW-40	NA	NA	NA	NA	NA	5.19	-1.06	1.73	6.3
MW-40R	NA	NA	NA	NA	NA	2.24	0.55	1.34	1.7
MW-40R2	-1.20	-1.11	-1.39	NA	NA	-0.90	-1.48	-1.27	0.6
MW-41	NA	NA	NA	NA	NA	2.60	-1.58	1.33	4.2
MW-41R	NA	NA	NA	NA	NA	1.59	0.62	1.01	1.0
MW-41R2	NA	NA	NA	NA	NA	4.56	-0.59	1.08	5.2
MW-41R3	NA	NA	NA	NA	NA				
MW-42	NA	NA	NA	NA	NA	2.61	0.44	1.62	2.2
MW-42R	NA	NA	NA	NA	NA	5.86	0.17	2.34	5.7
MW-42R2	NA	NA	NA	NA	NA				
MW-43	NA	NA	NA	NA	NA	3.46	0.40	2.54	3.1
MW-43R	NA	NA	NA	NA	NA	5.00	1.58	2.34	3.4
MW-43R2	NA	NA	NA	NA	NA	2.48	1.16	1.79	1.3
MW-43R3	0.31	0.49	0.47	0.41	0.41	2.31	-0.72	1.11	3.0

Flushing Industrial Park, Parcels 1 - 3

Table 2

Historical Post-Remediation Groundwater Sample Laboratory Analytical Results

PCBs

Client ID	NYSDEC	MW-28					MW-28R	MW-28R2	MW-28R3	MW-28R4	
Lab Sample ID	Class GA	213893-022	214586-019	220-1449-9	220-2239-1	220-3135-2	220-4196-1	922738	220-6237-1	220-8299-4	220-9190-1
Date Sampled	Water Quality	10/16/2006	1/22/2007	4/25/2007	7/24/2007	10/18/2007	2/19/2008	5/23/2008	8/15/2008	3/5/2009	5/29/2009
Dilution	Standards	1	1	1	1	1	1	1	1	1	1
Parameter (µg/L)											
Aroclor 1016	**NS**	0.062 U	0.057 U	0.057 U	0.057 U	0.08 U	0.087 U	0.56 U	0.082 U	0.05 U	0.057 U
Aroclor 1221	**NS**	0.12 U	0.11 U	0.11 U	0.11 U	0.26 U	0.28 U	0.56 U	0.35 U	0.05 U	0.057 U
Aroclor 1232	**NS**	0.088 U	0.081 U	0.081 U	0.081 U	0.12 U	0.13 U	0.56 U	0.082 U	0.05 U	0.057 U
Aroclor 1242	**NS**	0.078 U	0.072 U	0.072 U	0.072 U	0.13 U	0.14 U	0.56 U	0.082 U	0.05 U	0.057 U
Aroclor 1248	**NS**	0.065 U	0.06 U	0.06 U	2.5 M	0.16 U	0.29 JM	0.56 U	0.082 U	0.05 U	0.057 U
Aroclor 1254	**NS**	0.87 M	0.094 U	0.094 U	2.1 M	0.31 JM	0.045 U	0.56 U	0.049 U	0.082 U	0.093 U
Aroclor 1260	**NS**	1.8 M	0.34 J	5.2 M	1.9 M	0.071 U	2.4 M	2.1	0.051 U	0.082 U	0.093 U
Total PCBs	**0.09**	**2.67**	**0.34**	**5.2**	**6.5**	**0.31**	**2.69**	**2.1**	ND	ND	ND

Client ID	NYSDEC	MW-28					MW-28R	MW-28R2	MW-28R3	MW-28R4	
Lab Sample ID	Class GA	213893-022	214586-019	220-1449-10	220-2239-14	220-3135-2	220-4196-4	922747	220-6237-4	220-8299-10	220-9190-1
Date Sampled	Water Quality	10/16/2006	1/22/2007	4/25/2007	7/24/2007	10/18/2007	2/19/2008	5/23/2008	8/15/2008	3/5/2009	5/29/2009
Dilution	Standards	1	1	1	1	1	1	1	1	1	1
Parameter (µg/L)											
Aroclor 1016-Dissolved	**NS**	0.061 U	0.057 U	0.057 U	0.057 U	0.079 U	0.08 U	0.53 U	0.082 U	0.05 U	0.054 U
Aroclor 1221-Dissolved	**NS**	0.11 U	0.11 U	0.11 U	0.11 U	0.25 U	0.26 U	0.53 U	0.35 U	0.05 U	0.054 U
Aroclor 1232-Dissolved	**NS**	0.087 U	0.081 U	0.081 U	0.081 U	0.12 U	0.12 U	0.53 U	0.082 U	0.05 U	0.054 U
Aroclor 1242-Dissolved	**NS**	0.077 U	0.072 U	0.072 U	0.072 U	0.13 U	0.13 U	0.53 U	0.082 U	0.05 U	0.054 U
Aroclor 1248-Dissolved	**NS**	0.065 U	0.06 U	0.06 U	0.06 U	0.16 U	0.16 U	0.53 U	0.082 U	0.05 U	0.054 U
Aroclor 1254-Dissolved	**NS**	0.36 JM	0.094 U	0.094 U	0.094 UM	0.041 U	0.041 U	0.53 U	0.049 U	0.082 U	0.089 U
Aroclor 1260-Dissolved	**NS**	0.2 JM	0.082 U	0.082 UM	0.13 JM	0.07 U	0.071 U	0.53 U	0.51 J	0.082 U	0.089 U
Total Dissolved PCBs	**0.09**	**0.56**	ND	ND	**0.13**	ND	ND	ND	**0.51**	ND	ND

Flushing Industrial Park, Parcels 1 - 3

Table 2

Historical Post-Remediation Groundwater Sample Laboratory Analytical Results

PCBs

Client ID	NYSDEC	MW-28R5			
Lab Sample ID	Class GA	220-16775-2	460-36282-17	460-38848-1	460-42091-9
Date Sampled	Water Quality	10/25/2011	2/3/2012	4/6/2012	7/6/2012
Dilution	Standards	1	1	1	1
Parameter (µg/L)					
Aroclor 1016	NS	0.13 U	0.13 U	0.13 U	0.13 U
Aroclor 1221	NS	0.28 U	0.28 U	0.28 U	0.28 U
Aroclor 1232	NS	0.12 U	0.12 U	0.24 U	0.12 U
Aroclor 1242	NS	0.12 U	0.12 U	0.12 U	0.12 U
Aroclor 1248	NS	0.24 U	0.24 U	0.17 U	0.24 U
Aroclor 1254	NS	0.17 U	0.17 U	0.12 U	0.17 U
Aroclor 1260	NS	0.15 U	0.15 U	0.15 U	0.15 U
Total PCBs	0.09	ND	ND	ND	ND

Client ID	NYSDEC	MW-28R5			
Lab Sample ID	Class GA	220-16775-2	460-36282-17	460-38848-1	460-42091-9
Date Sampled	Water Quality	10/25/2011	2/3/2012	4/6/2012	7/6/2012
Dilution	Standards	1	1	1	1
Parameter (µg/L)					
Aroclor 1016-Dissolved	NS	0.13 U	0.13 U	0.13 U	0.13 U
Aroclor 1221-Dissolved	NS	0.28 U	0.28 U	0.29 U	0.28 U
Aroclor 1232-Dissolved	NS	0.12 U	0.12 U	0.24 U	0.12 U
Aroclor 1242-Dissolved	NS	0.12 U	0.12 U	0.12 U	0.12 U
Aroclor 1248-Dissolved	NS	0.24 U	0.24 U	0.17 U	0.24 U
Aroclor 1254-Dissolved	NS	0.17 U	0.17 U	0.12 U	0.17 U
Aroclor 1260-Dissolved	NS	0.15 U	0.15 U	0.15 U	0.15 U *
Total Dissolved PCBs	0.09	ND	ND	ND	ND

Flushing Industrial Park, Parcels 1 - 3

Table 2

Historical Post-Remediation Groundwater Sample Laboratory Analytical Results

PCBs

Client ID	NYSDEC	MW-28A (Dupl. of MW-28)						MW-28R2A	MW-28R3A	MW-28R4A	
Lab Sample ID	Class GA	213893-023	214586-020	220-1449-13	220-2239-2	220-3135-3	220-4196-2	922740	220-6237-2	220-8299-5	220-9190-2
Date Sampled	Water Quality	10/16/2006	1/22/2007	4/25/2007	7/24/2007	10/18/2007	2/19/2008	5/23/2008	8/15/2008	3/6/2009	5/29/2009
Dilution	Standards	1	1	1	1	1	1	1	1	1	1
Parameter (µg/L)											
Aroclor 1016	**NS**	0.061 U	0.057 U	0.057 U	0.057 U	0.085 U	0.082 U	0.53 U	0.083 U	0.05 U	0.058 U
Aroclor 1221	**NS**	0.11 U	0.11 U	0.11 U	0.11 U	0.27 U	0.26 U	0.53 U	0.35 U	0.05 U	0.058 U
Aroclor 1232	**NS**	0.086 U	0.081 U	0.081 U	0.081 U	0.12 U	0.12 U	0.53 U	0.083 U	0.05 U	0.058 U
Aroclor 1242	**NS**	0.077 U	0.072 U	0.072 U	0.072 U	0.13 U	0.13 U	0.53 U	0.083 U	0.05 U	0.058 U
Aroclor 1248	**NS**	0.064 U	0.06 U	0.06 U	2.3 M	0.17 U	0.25 JM	0.53 U	0.083 U	0.05 U	0.058 U
Aroclor 1254	**NS**	0.1 U	0.094 U	0.094 U	1.9 M	0.24 J	0.042 U	0.53 U	0.05 U	0.082 U	0.095 U
Aroclor 1260	**NS**	1.7 M	0.68	2.3 M	1.7 M	0.075 U	2.6 M	1.2	0.74	0.082 U	0.18 J
Total PCBs	**0.09**	**1.7**	**0.68**	**2.3**	**5.9**	**0.24**	**2.85**	**1.2**	**0.74**	ND	**0.18**

Client ID	NYSDEC	MW-28A (Dupl. of MW-28)						MW-28R2A	MW-28R3A	MW-28R4A	
Lab Sample ID	Class GA	213893-023	214586-020	220-1449-14	220-2239-15	220-3135-3	220-4196-5	922748	220-6237-5	220-8299-11	220-9190-2
Date Sampled	Water Quality	10/16/2006	1/22/2007	4/25/2007	7/24/2007	10/18/2007	2/19/2008	5/23/2008	8/15/2008	3/6/2009	5/29/2009
Dilution	Standards	1	1	1	1	1	1	1	1	1	1
Parameter (µg/L)											
Aroclor 1016-Dissolved	**NS**	0.057 U	0.057 U	0.057 U	0.057 U	0.08 U	0.082 U	0.53 U	0.082 U	0.05 U	0.056 U
Aroclor 1221-Dissolved	**NS**	0.11 U	0.11 U	0.11 U	0.11 U	0.26 U	0.26 U	0.53 U	0.35 U	0.05 U	0.056 U
Aroclor 1232-Dissolved	**NS**	0.081 U	0.081 U	0.081 U	0.081 U	0.12 U	0.12 U	0.53 U	0.082 U	0.05 U	0.056 U
Aroclor 1242-Dissolved	**NS**	0.072 U	0.072 U	0.072 U	0.072 U	0.13 U	0.13 U	0.53 U	0.082 U	0.05 U	0.056 U
Aroclor 1248-Dissolved	**NS**	0.06 U	0.06 U	0.06 U	0.06 U	0.16 U	0.17 U	0.53 U	0.082 U	0.05 U	0.056 U
Aroclor 1254-Dissolved	**NS**	0.2 JM	0.094 U	0.094 U	0.094 U	0.041 U	0.042 U	0.53 U	0.049 U	0.082 U	0.092 U
Aroclor 1260-Dissolved	**NS**	0.31 JM	0.17 JM	0.16 JM	0.024 U	0.071 U	0.073 U	0.53 U	0.051 U	0.082 U	0.092 U
Total Dissolved PCBs	**0.09**	**0.51**	**0.17**	**0.16**	ND	ND	ND	ND	ND	ND	ND

Flushing Industrial Park, Parcels 1 - 3

Table 2

Historical Post-Remediation Groundwater Sample Laboratory Analytical Results

PCBs

Client ID	NYSDEC	MW-28R5A			
Lab Sample ID	Class GA	220-16775-3	460-36282-18	460-38848-2	460-42091-10
Date Sampled	Water Quality	10/25/2011	2/3/2012	4/6/2012	7/6/2012
Dilution	Standards	1	1	1	1
Parameter (µg/L)					
Aroclor 1016	**NS**	0.13 U	0.13 U	0.13 U	0.13 U
Aroclor 1221	**NS**	0.28 U	0.28 U	0.28 U	0.28 U
Aroclor 1232	**NS**	0.12 U	0.12 U	0.24 U	0.12 U
Aroclor 1242	**NS**	0.12 U	0.12 U	0.12 U	0.12 U
Aroclor 1248	**NS**	0.24 U	0.24 U	0.17 U	0.24 U
Aroclor 1254	**NS**	0.17 U	0.17 U	0.12 U	0.17 U
Aroclor 1260	**NS**	0.15 U	0.15 U	0.15 U	0.15 U
Total PCBs	**0.09**	ND	ND	ND	ND

Client ID	NYSDEC	MW-28R5A			
Lab Sample ID	Class GA	220-16775-3	460-36282-18	460-38848-2	460-42091-10
Date Sampled	Water Quality	10/25/2011	2/3/2012	4/6/2012	7/6/2012
Dilution	Standards	1	1	1	1
Parameter (µg/L)					
Aroclor 1016-Dissolved	**NS**	0.13 U	0.13 U	0.13 U	0.13 U
Aroclor 1221-Dissolved	**NS**	0.28 U	0.28 U	0.29 U	0.28 U
Aroclor 1232-Dissolved	**NS**	0.12 U	0.12 U	0.24 U	0.12 U
Aroclor 1242-Dissolved	**NS**	0.12 U	0.12 U	0.12 U	0.12 U
Aroclor 1248-Dissolved	**NS**	0.24 U	0.24 U	0.17 U	0.24 U
Aroclor 1254-Dissolved	**NS**	0.17 U	0.17 U	0.12 U	0.17 U
Aroclor 1260-Dissolved	**NS**	0.15 U	0.15 U	0.15 U	0.15 U *
Total Dissolved PCBs	**0.09**	ND	ND	ND	ND

Flushing Industrial Park, Parcels 1 - 3

Table 2

Historical Post-Remediation Groundwater Sample Laboratory Analytical Results

PCBs

Client ID	NYSDEC	MW-29					MW-29R		MW-29R4	
Lab Sample ID	Class GA	213893-017	214586-015	220-1449-11	220-2239-3	220-3135-1	220-4176-3	220-6252-1	220-8299-3	220-9190-4
Date Sampled	Water Quality	10/12/2006	1/22/2007	4/25/2007	7/24/2007	10/18/2007	2/15/2008	8/18/2008	3/5/2009	5/29/2009
Dilution	Standards	1	1	1	1	1	1	1	1	1
Parameter (µg/L)										
Aroclor 1016	**NS**	0.061 U	0.057 U	0.057 U	0.057 U	0.083 U	0.072 U	0.075 U	0.05 U	0.056 U
Aroclor 1221	**NS**	0.11 U	0.11 U	0.11 U	0.11 U	0.27 U	0.23 U	0.32 U	0.05 U	0.056 U
Aroclor 1232	**NS**	0.087 U	0.081 U	0.081 U	0.081 U	0.12 U	0.11 U	0.075 U	0.05 U	0.056 U
Aroclor 1242	**NS**	0.077 U	0.072 U	0.072 U	0.072 U	0.13 U	0.11 U	0.075 U	0.05 U	0.056 U
Aroclor 1248	**NS**	0.065 U	0.06 U	0.06 U	0.06 U	0.17 U	0.15 U	0.075 U	0.05 U	0.056 U
Aroclor 1254	**NS**	0.1 U	1.5 M	0.094 U	3.7 M	2	0.28 JM	0.75	0.082 U	0.091 U
Aroclor 1260	**NS**	3.7 M	1.6 M	0.9 M	5.3 M	2.2	0.096 JM	0.78	0.082 U	0.11 J
Total PCBs	**0.09**	**3.7**	**3.1**	**0.9**	**9**	**4.2**	**0.376**	**1.53**	ND	**0.11**

Client ID	NYSDEC	MW-29					MW-29R		MW-29R4	
Lab Sample ID	Class GA	213893-017	214586-015	220-1449-12	220-2239-16	220-3135-1	220-4176-7	220-6252-3	220-8299-9	220-9190-4
Date Sampled	Water Quality	10/12/2006	1/22/2007	4/25/2007	7/24/2007	10/18/2007	2/15/2008	8/18/2008	3/5/2009	5/29/2009
Dilution	Standards	1	1	1	1	1	1	1	1	1
Parameter (µg/L)										
Aroclor 1016-Dissolved	**NS**	0.057 U	0.057 U	0.057 U	0.061 U	0.079 U	0.077 U	0.087 U	0.05 U	0.056 U
Aroclor 1221-Dissolved	**NS**	0.11 U	0.11 U	0.11 U	0.11 U	0.25 U	0.25 U	0.37 U	0.05 U	0.056 U
Aroclor 1232-Dissolved	**NS**	0.081 U	0.081 U	0.081 U	0.086 U	0.12 U	0.11 U	0.087 U	0.05 U	0.056 U
Aroclor 1242-Dissolved	**NS**	0.072 U	0.072 U	0.072 U	0.077 U	0.13 U	0.12 U	0.087 U	0.05 U	0.056 U
Aroclor 1248-Dissolved	**NS**	0.06 U	0.06 U	0.06 U	0.064 U	0.16 U	0.16 U	0.087 U	0.05 U	0.056 U
Aroclor 1254-Dissolved	**NS**	0.094 U	0.094 U	0.094 U	0.1 U	0.041 U	0.039 U	0.052 U	0.082 U	0.092 U
Aroclor 1260-Dissolved	**NS**	0.93 M	0.082 U	0.082 UM	0.026 U	0.07 U	0.068 U	0.055 U	0.082 U	0.092 U
Total Dissolved PCBs	**0.09**	**0.93**	ND	ND	ND	ND	ND	ND	ND	ND

Flushing Industrial Park, Parcels 1 - 3

Table 2

Historical Post-Remediation Groundwater Sample Laboratory Analytical Results

PCBs

Client ID	NYSDEC	MW-29R5			
Lab Sample ID	Class GA	220-16775-1	460-36282-16	460-38848-3	460-42091-8
Date Sampled	Water Quality	10/25/2011	2/3/2012	4/6/2012	7/6/2012
Dilution	Standards	1	1	1	1
Parameter (µg/L)					
Aroclor 1016	**NS**	0.13 U	0.14 U	0.13 U	0.13 U
Aroclor 1221	**NS**	0.28 U	0.29 U	0.28 U	0.28 U
Aroclor 1232	**NS**	0.12 U	0.13 U	0.24 U	0.12 U
Aroclor 1242	**NS**	0.12 U	0.13 U	0.12 U	0.12 U
Aroclor 1248	**NS**	0.24 U	0.25 U	0.17 U	0.24 U
Aroclor 1254	**NS**	0.17 U	0.18 U	0.12 U	0.17 U
Aroclor 1260	**NS**	1.8	0.47 J	0.15 U	0.4 J
Total PCBs	**0.09**	**1.8**	**0.47**	ND	**0.4**

Client ID	NYSDEC	MW-29R5			
Lab Sample ID	Class GA	220-16775-1	460-36282-16	460-38848-3	460-42091-8
Date Sampled	Water Quality	10/25/2011	2/3/2012	4/6/2012	7/6/2012
Dilution	Standards	1	1	1	1
Parameter (µg/L)					
Aroclor 1016-Dissolved	**NS**	0.13 U	0.13 U	0.13 U	0.13 U
Aroclor 1221-Dissolved	**NS**	0.28 U	0.28 U	0.29 U	0.28 U
Aroclor 1232-Dissolved	**NS**	0.12 U	0.12 U	0.24 U	0.12 U
Aroclor 1242-Dissolved	**NS**	0.12 U	0.12 U	0.12 U	0.12 U
Aroclor 1248-Dissolved	**NS**	0.24 U	0.24 U	0.17 U	0.24 U
Aroclor 1254-Dissolved	**NS**	0.17 U	0.17 U	0.12 U	0.17 U
Aroclor 1260-Dissolved	**NS**	0.15 U	1.3	0.15 U	0.15 U *
Total Dissolved PCBs	**0.09**	ND	**1.3**	ND	ND

Flushing Industrial Park, Parcels 1 - 3

Table 2

Historical Post-Remediation Groundwater Sample Laboratory Analytical Results

PCBs

Client ID	NYSDEC	MW-30				MW-30R	MW-30R2	MW-30R3	
Lab Sample ID	Class GA	213893-016	214586-018	220-1449-7	220-2239-4	220-4176-2	922742	220-8299-2	220-9180-1
Date Sampled	Water Quality	10/12/2006	1/22/2007	4/25/2007	7/24/2007	2/15/2008	5/23/2008	3/5/2009	5/28/2009
Dilution	Standards	1	1	1	1	1	1	1	1
Parameter (µg/L)									
Aroclor 1016	**NS**	0.062 U	0.061 U	0.057 U	0.069 U	0.078 U	0.52 U	0.052 U	0.053 U
Aroclor 1221	**NS**	0.12 U	0.11 U	0.11 U	0.13 U	0.25 U	0.52 U	0.052 U	0.053 U
Aroclor 1232	**NS**	0.088 U	0.087 U	0.081 U	0.098 U	0.12 U	0.52 U	0.052 U	0.053 U
Aroclor 1242	**NS**	0.078 U	0.077 U	0.072 U	0.087 U	0.12 U	0.52 U	0.052 U	0.053 U
Aroclor 1248	**NS**	0.065 U	0.065 U	0.06 U	0.072 U	0.16 U	0.52 U	0.052 U	0.053 U
Aroclor 1254	**NS**	0.1 U	0.1 U	0.094 U	0.11 U	0.04 U	0.52 U	0.085 U	0.086 U
Aroclor 1260	**NS**	0.12 JM	0.088 UM	0.36 JM	0.1 JM	0.07 U	0.52 U	0.085 U	0.086 U
Total PCBs	**0.09**	**0.12**	ND	**0.36**	**0.1**	ND	ND	ND	ND

Client ID	NYSDEC	MW-30				MW-30R	MW-30R2	MW-30R3	
Lab Sample ID	Class GA	213893-016	214586-018	220-1449-8	220-2239-17	220-4176-6	922749	220-8299-8	220-9180-1
Date Sampled	Water Quality	10/12/2006	1/22/2007	4/25/2007	7/24/2007	2/15/2008	5/23/2008	3/5/2009	5/28/2009
Dilution	Standards	1	1	1	1	1	1	1	1
Parameter (µg/L)									
Aroclor 1016-Dissolved	**NS**	0.062 U	0.057 U	0.057 U	0.063 U	0.077 U	0.56 U	0.054 U	0.056 U
Aroclor 1221-Dissolved	**NS**	0.12 U	0.11 U	0.11 U	0.12 U	0.25 U	0.56 U	0.054 U	0.056 U
Aroclor 1232-Dissolved	**NS**	0.088 U	0.081 U	0.081 U	0.09 U	0.11 U	0.56 U	0.054 U	0.056 U
Aroclor 1242-Dissolved	**NS**	0.078 U	0.072 U	0.072 U	0.08 U	0.12 U	0.56 U	0.054 U	0.056 U
Aroclor 1248-Dissolved	**NS**	0.065 U	0.06 U	0.06 U	0.067 U	0.16 U	0.56 U	0.054 U	0.056 U
Aroclor 1254-Dissolved	**NS**	0.1 U	0.094 U	0.094 U	0.1 U	0.04 U	0.56 U	0.088 U	0.091 U
Aroclor 1260-Dissolved	**NS**	0.089 U	0.082 U	0.082 U	0.027 U	0.069 U	0.56 U	0.088 U	0.091 U
Total Dissolved PCBs	**0.09**	ND	ND	ND	ND	ND	ND	ND	ND

Flushing Industrial Park, Parcels 1 - 3

Table 2

Historical Post-Remediation Groundwater Sample Laboratory Analytical Results

PCBs

Client ID	NYSDEC	MW-30R4			
Lab Sample ID	Class GA	460-32773-3	460-36282-14	460-38848-4	460-42091-7
Date Sampled	Water Quality	10/24/2011	2/2/2012	4/6/2012	7/6/2012
Dilution	Standards	1	1	1	1
Parameter (µg/L)					
Aroclor 1016	NS	0.13 U *	0.14 U	0.13 U	0.13 U
Aroclor 1221	NS	0.28 U	0.29 U	0.29 U	0.28 U
Aroclor 1232	NS	0.12 U	0.13 U	0.24 U	0.12 U
Aroclor 1242	NS	0.12 U	0.13 U	0.12 U	0.12 U
Aroclor 1248	NS	0.24 U	0.25 U	0.17 U	0.24 U
Aroclor 1254	NS	0.17 U	0.18 U	0.12 U	0.17 U
Aroclor 1260	NS	0.15 U *	0.16 U	0.15 U	0.15 U
Total PCBs	0.09	ND	ND	ND	ND

Client ID	NYSDEC	MW-30R4			
Lab Sample ID	Class GA	460-32773-3	460-36282-14	460-38848-4	460-42091-7
Date Sampled	Water Quality	10/24/2011	2/2/2012	4/6/2012	7/6/2012
Dilution	Standards	1	1	1	1
Parameter (µg/L)					
Aroclor 1016-Dissolved	NS	0.13 U	0.13 U	0.13 U	0.13 U
Aroclor 1221-Dissolved	NS	0.28 U	0.28 U	0.28 U	0.28 U
Aroclor 1232-Dissolved	NS	0.12 U	0.12 U	0.24 U	0.12 U
Aroclor 1242-Dissolved	NS	0.12 U	0.12 U	0.12 U	0.12 U
Aroclor 1248-Dissolved	NS	0.24 U	0.24 U	0.17 U	0.24 U
Aroclor 1254-Dissolved	NS	0.17 U	0.17 U	0.12 U	0.17 U
Aroclor 1260-Dissolved	NS	0.15 U	0.15 U	0.15 U	0.15 U *
Total Dissolved PCBs	0.09	ND	ND	ND	ND

Flushing Industrial Park, Parcels 1 - 3

Table 2

Historical Post-Remediation Groundwater Sample Laboratory Analytical Results

PCBs

Client ID	NYSDEC	MW-31								
Lab Sample ID	Class GA	213893-014	214586-014	220-1449-5	220-2239-5	220-3117-2	220-4176-1	922736	220-6223-2	220-8299-1
Date Sampled	Water Quality	10/11/2006	1/22/2007	4/24/2007	7/24/2007	10/17/2007	2/15/2008	5/23/2008	8/14/2008	3/5/2009
Dilution	Standards	1	1	1	1	1	1	1	1	1
Parameter (µg/L)										
Aroclor 1016	**NS**	0.061 U	0.063 U	0.057 U	0.057 U	0.082 U	0.083 U	0.53 U	0.083 U	0.05 U
Aroclor 1221	**NS**	0.11 U	0.12 U	0.11 U	0.11 U	0.26 U	0.27 U	0.53 U	0.35 U	0.05 U
Aroclor 1232	**NS**	0.087 U	0.089 U	0.081 U	0.081 U	0.12 U	0.12 U	0.53 U	0.083 U	0.05 U
Aroclor 1242	**NS**	0.077 U	0.079 U	0.072 U	0.072 U	0.13 U	0.13 U	0.53 U	0.083 U	0.05 U
Aroclor 1248	**NS**	0.065 U	0.066 U	0.06 U	0.06 U	0.17 U	0.17 U	0.53 U	0.083 U	0.05 U
Aroclor 1254	**NS**	0.1 U	0.1 U	1.4 M	0.39 JM	0.042 U	0.043 U	0.53 U	0.05 U	0.082 U
Aroclor 1260	**NS**	1.7 M	0.45 JM	2.2 M	1.1 M	0.34 JM	0.5 JM	0.53 U	0.26 J	0.082 U
Total PCBs	**0.09**	**1.7**	**0.45**	**3.6**	**1.49**	**0.34**	**0.5**	ND	**0.26**	ND

Client ID	NYSDEC	MW-31								
Lab Sample ID	Class GA	213893-014	214586-014	220-1449-6	220-2239-18	220-3117-2	220-4176-5	922746	220-6223-7	220-8299-7
Date Sampled	Water Quality	10/11/2006	1/22/2007	4/24/2007	7/24/2007	10/17/2007	2/15/2008	5/23/2008	8/14/2008	3/5/2009
Dilution	Standards	1	1	1	1	1	1	1	1	1
Parameter (µg/L)										
Aroclor 1016-Dissolved	**NS**	0.061 U	0.063 U	0.057 U	0.057 U	0.085 U	0.085 U	0.53 U	0.083 U	0.05 U
Aroclor 1221-Dissolved	**NS**	0.11 U	0.12 U	0.11 U	0.11 U	0.27 U	0.27 U	0.53 U	0.35 U	0.05 U
Aroclor 1232-Dissolved	**NS**	0.087 U	0.09 U	0.081 U	0.081 U	0.12 U	0.12 U	0.53 U	0.083 U	0.05 U
Aroclor 1242-Dissolved	**NS**	0.077 U	0.08 U	0.072 U	0.072 U	0.13 U	0.13 U	0.53 U	0.083 U	0.05 U
Aroclor 1248-Dissolved	**NS**	0.065 U	0.067 U	0.06 U	0.06 U	0.17 U	0.17 U	0.53 U	0.083 U	0.05 U
Aroclor 1254-Dissolved	**NS**	0.1 U	0.1 U	0.094 U	0.094 U	0.044 U	0.044 U	0.53 U	0.05 U	0.082 U
Aroclor 1260-Dissolved	**NS**	0.25 JM	0.091 U	0.082 UM	0.024 U	0.075 U	0.075 U	0.53 U	0.052 U	0.082 U
Total Dissolved PCBs	**0.09**	**0.25**	ND	ND	ND	ND	ND	ND	ND	ND

Flushing Industrial Park, Parcels 1 - 3

Table 2

Historical Post-Remediation Groundwater Sample Laboratory Analytical Results

PCBs

Client ID	NYSDEC	MW-31R			
Lab Sample ID	Class GA	460-32773-5	460-36282-11	460-38772-5	460-42091-6
Date Sampled	Water Quality	10/24/2011	2/2/2012	4/5/2012	7/6/2012
Dilution	Standards	1	1	1	1
Parameter (µg/L)					
Aroclor 1016	**NS**	0.13 U	0.13 U	0.13 U	0.13 U
Aroclor 1221	**NS**	0.28 U	0.28 U	0.28 U	0.28 U
Aroclor 1232	**NS**	0.12 U	0.12 U	0.24 U	0.12 U
Aroclor 1242	**NS**	0.12 U	0.12 U	0.12 U	0.12 U
Aroclor 1248	**NS**	0.24 U	0.24 U	0.17 U	0.24 U
Aroclor 1254	**NS**	0.17 U	0.17 U	0.12 U	0.17 U
Aroclor 1260	**NS**	0.46 J	0.15 U	0.15 U	0.15 U
Total PCBs	**0.09**	**0.46**	ND	ND	ND

Client ID	NYSDEC	MW-31R			
Lab Sample ID	Class GA	460-32773-5	460-36282-11	460-38772-5	460-42091-6
Date Sampled	Water Quality	10/24/2011	2/2/2012	4/5/2012	7/6/2012
Dilution	Standards	1	1	1	1
Parameter (µg/L)					
Aroclor 1016-Dissolved	**NS**	0.13 U	0.13 U	0.13 U	0.13 U
Aroclor 1221-Dissolved	**NS**	0.28 U	0.28 U	0.28 U	0.28 U
Aroclor 1232-Dissolved	**NS**	0.12 U	0.12 U	0.24 U	0.12 U
Aroclor 1242-Dissolved	**NS**	0.12 U	0.12 U	0.12 U	0.12 U
Aroclor 1248-Dissolved	**NS**	0.24 U	0.24 U	0.17 U	0.24 U
Aroclor 1254-Dissolved	**NS**	0.17 U	0.17 U	0.12 U	0.17 U
Aroclor 1260-Dissolved	**NS**	0.63	0.15 U	0.15 U	0.15 U *
Total Dissolved PCBs	**0.09**	**0.63**	ND	ND	ND

Flushing Industrial Park, Parcels 1 - 3

Table 2

Historical Post-Remediation Groundwater Sample Laboratory Analytical Results

PCBs

Client ID	NYSDEC	MW-32										
Lab Sample ID	Class GA	213893-008	214586-012	220-1449-1	220-2239-6	220-3117-1	220-4162-6	220-6223-3	220-8253-8	220-9180-2	220-9971-3	220-9971-2
Date Sampled	Water Quality	10/6/2006	1/19/2007	4/24/2007	7/24/2007	10/17/2007	2/14/2008	8/14/2008	3/4/2009	5/28/2009	8/26/2009	8/26/2009
Dilution	Standards	1	1	1	2	1	1	1	1	1	1	1
Parameter (µg/L)												Duplicate
Aroclor 1016	**NS**	0.064 U	0.059 U	0.057 U	0.13 U	0.079 U	0.077 U	0.082 U	0.05 U	0.056 U	0.054 U	0.057 U
Aroclor 1221	**NS**	0.12 U	0.11 U	0.11 U	0.24 U	0.25 U	0.25 U	0.35 U	0.05 U	0.056 U	0.054 U	0.057 U
Aroclor 1232	**NS**	0.091 U	0.084 U	0.081 U	0.18 U	0.12 U	0.11 U	0.082 U	0.05 U	0.056 U	0.054 U	0.057 U
Aroclor 1242	**NS**	0.081 U	0.075 U	0.072 U	0.16 U	0.13 U	0.12 U	0.082 U	0.05 U	0.056 U	0.054 U	0.057 U
Aroclor 1248	**NS**	0.067 U	0.063 U	0.06 U	0.13 U	0.16 U	0.16 U	0.082 U	0.05 U	0.056 U	0.054 U	0.057 U
Aroclor 1254	**NS**	0.11 U	0.098 U	1.6 M	0.21 U	0.041 U	3.4 M	0.049 U	0.082 U	0.091 U	0.089 U	0.094 U
Aroclor 1260	**NS**	0.87 M	0.98 M	2.3 M	0.41 JM	0.6	2.6 M	0.052 U	0.082 U	0.29 J	0.37 J	0.19 J
Total PCBs	**0.09**	**0.87**	**0.98**	**3.9**	**0.41**	**0.6**	**6**	ND	ND	**0.29**	**0.37**	**0.19**

Client ID	NYSDEC	MW-32										
Lab Sample ID	Class GA	213893-008	214586-012	220-1449-2	220-2239-19	220-3117-1	220-4162-13	220-6223-8	220-8253-9	220-9180-2	220-9971-3	220-9971-2
Date Sampled	Water Quality	10/6/2006	1/19/2007	4/24/2007	7/24/2007	10/17/2007	2/14/2008	8/14/2008	3/4/2009	5/28/2009	8/26/2009	8/26/2009
Dilution	Standards	1	1	1	1	1	1	1	1	1	1	1
Parameter (µg/L)												Duplicate
Aroclor 1016-Dissolved	**NS**	0.061 U	0.062 U	0.057 U	0.064 U	0.082 U	0.076 U	0.082 U	0.052 U	0.054 U	0.056 U	0.058 U
Aroclor 1221-Dissolved	**NS**	0.11 U	0.12 U	0.11 U	0.12 U	0.26 U	0.24 U	0.35 U	0.052 U	0.054 U	0.056 U	0.058 U
Aroclor 1232-Dissolved	**NS**	0.087 U	0.088 U	0.081 U	0.091 U	0.12 U	0.11 U	0.082 U	0.052 U	0.054 U	0.056 U	0.058 U
Aroclor 1242-Dissolved	**NS**	0.077 U	0.078 U	0.072 U	0.081 U	0.13 U	0.12 U	0.082 U	0.052 U	0.054 U	0.056 U	0.058 U
Aroclor 1248-Dissolved	**NS**	0.065 U	0.065 U	0.06 U	0.067 U	0.17 U	0.15 U	0.082 U	0.052 U	0.054 U	0.056 U	0.058 U
Aroclor 1254-Dissolved	**NS**	0.1 U	0.1 U	0.094 U	0.11 U	0.042 U	0.039 U	0.049 U	0.085 U	0.088 U	0.091 U	0.095 U
Aroclor 1260-Dissolved	**NS**	0.19 JM	0.089 U	0.082 U	0.027 U	0.073 U	0.067 U	0.052 U	0.085 U	0.088 U	0.091 U	0.095 U
Total Dissolved PCBs	**0.09**	**0.19**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Flushing Industrial Park, Parcels 1 - 3

Table 2

Historical Post-Remediation Groundwater Sample Laboratory Analytical Results

PCBs

Client ID	NYSDEC	MW-32R			
Lab Sample ID	Class GA	460-32773-1	460-36282-13	460-38772-3	460-42091-4
Date Sampled	Water Quality	10/24/2011	2/2/2012	4/5/2012	7/5/2012
Dilution	Standards	1	1	1	1
Parameter (µg/L)					
Aroclor 1016	**NS**	0.13 U	0.13 U	0.13 U	0.13 U
Aroclor 1221	**NS**	0.28 U	0.28 U	0.28 U	0.28 U
Aroclor 1232	**NS**	0.12 U	0.12 U	0.24 U	0.12 U
Aroclor 1242	**NS**	0.12 U	0.12 U	0.12 U	0.12 U
Aroclor 1248	**NS**	0.24 U	0.24 U	0.17 U	0.24 U
Aroclor 1254	**NS**	0.17 U	0.17 U	0.12 U	0.17 U
Aroclor 1260	**NS**	5.9	5.5	0.15 U	3.7
Total PCBs	**0.09**	**5.9**	**5.5**	ND	**3.7**

Client ID	NYSDEC	MW-32R			
Lab Sample ID	Class GA	460-32773-1	460-36282-13	460-38772-3	460-42091-4
Date Sampled	Water Quality	10/24/2011	2/2/2012	4/5/2012	7/5/2012
Dilution	Standards	1	1	1	1
Parameter (µg/L)					
Aroclor 1016-Dissolved	**NS**	0.14 U	0.13 U	0.13 U	0.13 U
Aroclor 1221-Dissolved	**NS**	0.30 U	0.28 U	0.28 U	0.28 U
Aroclor 1232-Dissolved	**NS**	0.13 U	0.12 U	0.24 U	0.12 U
Aroclor 1242-Dissolved	**NS**	0.13 U	0.12 U	0.12 U	0.12 U
Aroclor 1248-Dissolved	**NS**	0.26 U	0.24 U	0.17 U	0.24 U
Aroclor 1254-Dissolved	**NS**	0.18 U	0.17 U	0.12 U	0.17 U
Aroclor 1260-Dissolved	**NS**	0.16 U	3.8	0.15 U	0.15 U *
Total Dissolved PCBs	**0.09**	ND	**3.8**	ND	ND

Flushing Industrial Park, Parcels 1 - 3

Table 2

Historical Post-Remediation Groundwater Sample Laboratory Analytical Results

PCBs

Client ID	NYSDEC	MW-33				MW-33R						
Lab Sample ID	Class GA	213893-013	214586-010	220-1449-3	220-2268-2	220-4162-5	922563	220-6176-11	220-7297-8	220-8253-1	220-9180-3	220-9971-4
Date Sampled	Water Quality	10/10/2006	1/19/2007	4/24/2007	7/26/2007	2/14/2008	5/22/2008	8/13/2008	11/20/2008	3/4/2009	5/28/2009	8/26/2009
Dilution	Standards	1	1	1	1	1	1	1	1	1	1	1
Parameter (µg/L)												
Aroclor 1016	**NS**	0.063 U	0.057 U	0.057 U	0.071 U	0.087 U	0.57 U	0.083 U	0.087 U	0.055 U	0.053 U	0.053 U
Aroclor 1221	**NS**	0.12 U	0.11 U	0.11 U	0.13 U	0.28 U	0.57 U	0.35 U	0.37 U	0.055 U	0.053 U	0.053 U
Aroclor 1232	**NS**	0.09 U	0.081 U	0.081 U	0.1 U	0.13 U	0.57 U	0.083 U	0.087 U	0.055 U	0.053 U	0.053 U
Aroclor 1242	**NS**	0.08 U	0.072 U	0.072 U	0.09 U	0.14 U	0.57 U	0.083 U	0.087 U	0.055 U	0.053 U	0.053 U
Aroclor 1248	**NS**	0.067 U	0.06 U	0.06 U	0.075 U	0.18 U	0.57 U	0.083 U	0.087 U	0.055 U	0.053 U	0.053 U
Aroclor 1254	**NS**	0.1 U	0.094 U	0.094 U	0.12 U	0.045 U	0.57 U	0.05 U	0.052 U	0.09 U	0.087 U	0.086 U
Aroclor 1260	**NS**	1.5 M	0.16 JM	0.082 U	0.03 U	2.3 M	0.57 U	0.25 J	0.055 U	0.09 U	0.31 J	0.41 J
Total PCBs	**0.09**	**1.5**	**0.16**	ND	ND	**2.3**	ND	**0.25**	ND	ND	**0.31**	**0.41**

Client ID	NYSDEC	MW-33				MW-33R						
Lab Sample ID	Class GA	213893-013	214586-010	220-1449-4	220-2268-7	220-4162-12	922569	220-6176-16	220-7297-16	220-8253-2	220-9180-3	220-9971-4
Date Sampled	Water Quality	10/10/2006	1/19/2007	4/24/2007	7/26/2007	2/14/2008	5/22/2008	8/13/2008	11/20/2008	3/4/2009	5/28/2009	8/26/2009
Dilution	Standards	1	1	1	1	1	1	1	1	1	1	1
Parameter (µg/L)												
Aroclor 1016-Dissolved	**NS**	0.062 U	0.061 U	0.057 U	0.071 U	0.083 U	0.59 U	0.082 U	0.082 U	0.05 U	0.058 U	0.053 U
Aroclor 1221-Dissolved	**NS**	0.12 U	0.11 U	0.11 U	0.13 U	0.27 U	0.59 U	0.35 U	0.35 U	0.05 U	0.058 U	0.053 U
Aroclor 1232-Dissolved	**NS**	0.088 U	0.086 U	0.081 U	0.1 U	0.12 U	0.59 U	0.082 U	0.082 U	0.05 U	0.058 U	0.053 U
Aroclor 1242-Dissolved	**NS**	0.078 U	0.077 U	0.072 U	0.09 U	0.13 U	0.59 U	0.082 U	0.082 U	0.05 U	0.058 U	0.053 U
Aroclor 1248-Dissolved	**NS**	0.065 U	0.064 U	0.06 U	0.075 U	0.17 U	0.59 U	0.082 U	0.082 U	0.05 U	0.058 U	0.053 U
Aroclor 1254-Dissolved	**NS**	0.1 U	0.1 U	0.094 U	0.12 U	0.043 U	0.59 U	0.049 U	0.049 U	0.082 U	0.095 U	0.087 U
Aroclor 1260-Dissolved	**NS**	1.5 M	0.087 U	0.082 U	0.03 U	0.074 U	0.59 U	0.052 U	0.052 U	0.082 U	0.095 U	0.087 U
Total Dissolved PCBs	**0.09**	**1.5**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Flushing Industrial Park, Parcels 1 - 3

Table 2

Historical Post-Remediation Groundwater Sample Laboratory Analytical Results

PCBs

Client ID	NYSDEC	MW-33R2				MW-33RA
Lab Sample ID	Class GA	460-32773-4	460-36282-6	460-38772-4	460-42091-3	220-7297-9
Date Sampled	Water Quality	10/24/2011	2/1/2012	4/5/2012	7/5/2012	11/20/2008
Dilution	Standards	1	1	1	1	1
Parameter (µg/L)						
Aroclor 1016	NS	0.13 U *	0.13 U	0.13 U	0.13 U	0.084 U
Aroclor 1221	NS	0.28 U	0.29 U	0.28 U	0.28 U	0.36 U
Aroclor 1232	NS	0.12 U	0.12 U	0.24 U	0.12 U	0.084 U
Aroclor 1242	NS	0.12 U	0.12 U	0.12 U	0.12 U	0.084 U
Aroclor 1248	NS	0.24 U	0.24 U	0.17 U	0.24 U	0.084 U
Aroclor 1254	NS	0.17 U	0.17 U	0.12 U	0.17 U	0.051 U
Aroclor 1260	NS	0.15 U *	0.15 U	0.15 U	0.15 U	0.053 U
Total PCBs	0.09	ND	ND	ND	ND	ND

Client ID	NYSDEC	MW-33R2				MW-33RA
Lab Sample ID	Class GA	460-32773-4	460-36282-6	460-38772-4	460-42091-3	220-7297-17
Date Sampled	Water Quality	10/24/2011	2/1/2012	4/5/2012	7/5/2012	11/20/2008
Dilution	Standards	1	1	1	1	1
Parameter (µg/L)						
Aroclor 1016-Dissolved	NS	0.13 U	0.13 U	0.13 U	0.13 U	0.085 U
Aroclor 1221-Dissolved	NS	0.28 U	0.28 U	0.28 U	0.28 U	0.36 U
Aroclor 1232-Dissolved	NS	0.12 U	0.12 U	0.24 U	0.12 U	0.085 U
Aroclor 1242-Dissolved	NS	0.12 U	0.12 U	0.12 U	0.12 U	0.085 U
Aroclor 1248-Dissolved	NS	0.24 U	0.24 U	0.17 U	0.24 U	0.085 U
Aroclor 1254-Dissolved	NS	0.17 U	0.17 U	0.12 U	0.17 U	0.051 U
Aroclor 1260-Dissolved	NS	0.15 U	0.15 U	0.15 U	0.15 U *	0.053 U
Total Dissolved PCBs	0.09	ND	ND	ND	ND	ND

Flushing Industrial Park, Parcels 1 - 3

Table 2

Historical Post-Remediation Groundwater Sample Laboratory Analytical Results

PCBs

Client ID	NYSDEC	MW-34				MW-34R						
Lab Sample ID	Class GA	213893-018	214586-013	220-1422-1	220-2268-3	220-4162-4	922561	220-6176-10	220-7297-7	220-8277-1	220-9180-4	220-9971-5
Date Sampled	Water Quality	10/11/2006	1/19/2007	4/23/2007	7/26/2007	2/14/2008	5/22/2008	8/13/2008	11/20/2008	3/5/2009	5/28/2009	8/26/2009
Dilution	Standards	1	1	1	1	1	1	1	1	1	1	1
Parameter (µg/L)												
Aroclor 1016	**NS**	0.062 U	0.057 U	0.057 U	0.057 U	0.078 U	0.59 U	0.087 U	0.075 U	0.05 U	0.055 U	0.054 U
Aroclor 1221	**NS**	0.12 U	0.11 U	0.11 U	0.11 U	0.25 U	0.59 U	0.37 U	0.32 U	0.05 U	0.055 U	0.054 U
Aroclor 1232	**NS**	0.088 U	0.081 U	0.081 U	0.081 U	0.12 U	0.59 U	0.087 U	0.075 U	0.05 U	0.055 U	0.054 U
Aroclor 1242	**NS**	0.078 U	0.072 U	0.072 U	0.072 U	0.12 U	0.59 U	0.087 U	0.075 U	0.05 U	0.055 U	0.054 U
Aroclor 1248	**NS**	0.065 U	0.06 U	0.06 U	0.06 U	0.16 U	0.59 U	0.087 U	0.075 U	0.05 U	0.055 U	0.054 U
Aroclor 1254	**NS**	0.1 U	0.95 M	4 M	0.59 M	0.04 U	0.59 U	0.052 U	0.045 U	0.082 U	0.090 U	0.088 U
Aroclor 1260	**NS**	0.6 M	2.6 M	7.8 M	0.45 JM	0.07 U	0.59 U	0.055 U	0.047 U	0.21 J	0.090 U	0.088 U
Total PCBs	**0.09**	**0.6**	**3.55**	**11.8**	**1.04**	ND	ND	ND	ND	**0.21**	ND	ND

Client ID	NYSDEC	MW-34				MW-34R						
Lab Sample ID	Class GA	213893-018	214586-013	220-1422-2	220-2268-8	220-4162-11	922568	220-6176-15	220-7297-15	220-8277-2	220-9180-4	220-9971-5
Date Sampled	Water Quality	10/11/2006	1/19/2007	4/23/2007	7/26/2007	2/14/2008	5/22/2008	8/13/2008	11/20/2008	3/5/2009	5/28/2009	8/26/2009
Dilution	Standards	1	1	1	1	1	1	1	1	1	1	1
Parameter (µg/L)												
Aroclor 1016-Dissolved	**NS**	0.062 U	0.057 U	0.057 U	0.072 U	0.078 U	0.56 U	0.082 U	0.091 U	0.05 U	0.053 U	0.055 U
Aroclor 1221-Dissolved	**NS**	0.12 U	0.11 U	0.11 U	0.13 U	0.25 U	0.56 U	0.35 U	0.39 U	0.05 U	0.053 U	0.055 U
Aroclor 1232-Dissolved	**NS**	0.088 U	0.081 U	0.081 U	0.1 U	0.12 U	0.56 U	0.082 U	0.091 U	0.05 U	0.053 U	0.055 U
Aroclor 1242-Dissolved	**NS**	0.078 U	0.072 U	0.072 U	0.091 U	0.12 U	0.56 U	0.082 U	0.091 U	0.05 U	0.053 U	0.055 U
Aroclor 1248-Dissolved	**NS**	0.065 U	0.06 U	0.06 U	0.076 U	0.16 U	0.56 U	0.082 U	0.091 U	0.05 U	0.053 U	0.055 U
Aroclor 1254-Dissolved	**NS**	0.1 U	0.094 U	0.094 U	0.12 U	0.04 U	0.56 U	0.049 U	0.055 U	0.082 U	0.087 U	0.090 U
Aroclor 1260-Dissolved	**NS**	0.85 M	0.11 JM	0.082 U	0.03 U	0.07 U	0.56 U	0.052 U	0.057 U	0.082 U	0.087 U	0.090 U
Total Dissolved PCBs	**0.09**	**0.85**	**0.11**	ND	ND	ND	ND	ND	ND	ND	ND	ND

Flushing Industrial Park, Parcels 1 - 3

Table 2

Historical Post-Remediation Groundwater Sample Laboratory Analytical Results

PCBs

Client ID	NYSDEC	MW-34R2			
Lab Sample ID	Class GA	220-16768-8	460-36282-9	460-38772-2	460-42091-2
Date Sampled	Water Quality	10/21/2011	2/1/2012	4/5/2012	7/5/2012
Dilution	Standards	1	1	1	1
Parameter (µg/L)					
Aroclor 1016	NS	0.13 U	0.13 U	0.13 U	0.13 U
Aroclor 1221	NS	0.28 U	0.28 U	0.28 U	0.28 U
Aroclor 1232	NS	0.12 U	0.12 U	0.24 U	0.12 U
Aroclor 1242	NS	0.12 U	0.12 U	0.12 U	0.12 U
Aroclor 1248	NS	0.24 U	0.24 U	0.17 U	0.24 U
Aroclor 1254	NS	0.17 U	0.17 U	0.12 U	0.17 U
Aroclor 1260	NS	0.15 U	0.15 U	0.15 U	0.15 U
Total PCBs	0.09	ND	ND	ND	ND

Client ID	NYSDEC	MW-34R2			
Lab Sample ID	Class GA	220-16768-8	460-36282-9	460-38772-2	460-42091-2
Date Sampled	Water Quality	10/21/2011	2/1/2012	4/5/2012	7/5/2012
Dilution	Standards	1	1	1	1
Parameter (µg/L)					
Aroclor 1016-Dissolved	NS	0.14 U	0.13 U	0.13 U	0.13 U
Aroclor 1221-Dissolved	NS	0.31 U	0.28 U	0.28 U	0.29 U
Aroclor 1232-Dissolved	NS	0.13 U	0.12 U	0.24 U	0.12 U
Aroclor 1242-Dissolved	NS	0.13 U	0.12 U	0.12 U	0.12 U
Aroclor 1248-Dissolved	NS	0.27 U	0.24 U	0.17 U	0.24 U
Aroclor 1254-Dissolved	NS	0.19 U	0.17 U	0.12 U	0.17 U
Aroclor 1260-Dissolved	NS	0.17 U	0.15 U	0.15 U	0.15 U *
Total Dissolved PCBs	0.09	ND	ND	ND	ND

Flushing Industrial Park, Parcels 1 - 3

Table 2

Historical Post-Remediation Groundwater Sample Laboratory Analytical Results

PCBs

Client ID	NYSDEC	MW-35									
Lab Sample ID	Class GA	213893-006	214586-011	220-1422-3	220-2239-10	220-3097-4	220-4162-3	922559	220-6176-9	220-7297-6	220-8253-3
Date Sampled	Water Quality	10/5/2006	1/19/2007	4/23/2007	7/25/2007	10/16/2007	2/14/2008	5/22/2008	8/13/2008	11/20/2008	3/4/2009
Dilution	Standards	1	1	1	1	1	1	1	1	1	1
Parameter (µg/L)											
Aroclor 1016	**NS**	0.057 U	0.057 U	0.057 U	0.066 U	0.078 U	0.088 U	0.51 U	0.075 U	0.089 U	0.061 U
Aroclor 1221	**NS**	0.11 U	0.11 U	0.11 U	0.12 U	0.25 U	0.28 U	0.51 U	0.32 U	0.38 U	0.061 U
Aroclor 1232	**NS**	0.081 U	0.081 U	0.081 U	0.094 U	0.12 U	0.13 U	0.51 U	0.075 U	0.089 U	0.061 U
Aroclor 1242	**NS**	0.072 U	0.072 U	0.072 U	0.084 U	0.12 U	0.14 U	0.51 U	0.075 U	0.089 U	0.061 U
Aroclor 1248	**NS**	0.06 U	0.06 U	0.06 U	0.07 U	0.16 U	0.18 U	0.51 U	0.075 U	0.089 U	0.061 U
Aroclor 1254	**NS**	0.094 U	0.094 U	0.16 JM	0.11 U	0.04 U	0.045 U	0.51 U	0.045 U	0.054 U	0.10 U
Aroclor 1260	**NS**	0.082 U	0.12 J	0.16 JM	0.091 JM	0.07 U	0.093 JM	0.51 U	0.047 U	0.056 U	0.10 U
Total PCBs	**0.09**	ND	**0.12**	**0.32**	**0.091**	ND	**0.093**	ND	ND	ND	ND

Client ID	NYSDEC	MW-35									
Lab Sample ID	Class GA	213893-006	214586-011	220-1422-4	220-2239-23	220-3097-4	220-4162-10	922567	220-6176-14	220-7297-14	220-8253-4
Date Sampled	Water Quality	10/5/2006	1/19/2007	4/23/2007	7/25/2007	10/16/2007	2/14/2008	5/22/2008	8/13/2008	11/20/2008	3/4/2009
Dilution	Standards	1	1	1	1	1	1	1	1	1	1
Parameter (µg/L)											
Aroclor 1016-Dissolved	**NS**	0.061 U	0.057 U	0.057 U	0.063 U	0.078 U	0.09 U	0.52 U	0.082 U	0.086 U	0.056 U
Aroclor 1221-Dissolved	**NS**	0.11 U	0.11 U	0.11 U	0.12 U	0.25 U	0.29 U	0.52 U	0.35 U	0.37 U	0.056 U
Aroclor 1232-Dissolved	**NS**	0.086 U	0.081 U	0.081 U	0.09 U	0.12 U	0.13 U	0.52 U	0.082 U	0.086 U	0.056 U
Aroclor 1242-Dissolved	**NS**	0.077 U	0.072 U	0.072 U	0.08 U	0.12 U	0.14 U	0.52 U	0.082 U	0.086 U	0.056 U
Aroclor 1248-Dissolved	**NS**	0.064 U	0.06 U	0.06 U	0.067 U	0.16 U	0.18 U	0.52 U	0.082 U	0.086 U	0.056 U
Aroclor 1254-Dissolved	**NS**	0.1 U	0.094 U	0.094 U	0.1 U	0.04 U	0.046 U	0.52 U	0.049 U	0.052 U	0.091 U
Aroclor 1260-Dissolved	**NS**	0.087 U	0.082 U	0.082 U	0.027 U	0.07 U	0.08 U	0.52 U	0.052 U	0.054 U	0.091 U
Total Dissolved PCBs	**0.09**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Flushing Industrial Park, Parcels 1 - 3

Table 2

Historical Post-Remediation Groundwater Sample Laboratory Analytical Results

PCBs

Client ID	NYSDEC	MW-35 Cont.		MW-35R			
Lab Sample ID	Class GA	220-9180-5	220-9971-6	220-16768-19	460-36282-8	460-38772-1	460-42091-1
Date Sampled	Water Quality	5/28/2009	8/26/2009	10/21/2011	2/1/2012	4/5/2012	7/5/2012
Dilution	Standards	1	1	1	1	1	1
Parameter (µg/L)							
Aroclor 1016	NS	0.054 U	0.050 U	0.13 U	0.14 U	0.13 U	0.13 U
Aroclor 1221	NS	0.054 U	0.050 U	0.29 U	0.29 U	0.28 U	0.28 U
Aroclor 1232	NS	0.054 U	0.050 U	0.12 U	0.13 U	0.24 U	0.12 U
Aroclor 1242	NS	0.054 U	0.050 U	0.12 U	0.13 U	0.12 U	0.12 U
Aroclor 1248	NS	0.054 U	0.050 U	0.24 U	0.25 U	0.17 U	0.24 U
Aroclor 1254	NS	0.088 U	0.082 U	0.17 U	0.18 U	0.12 U	0.17 U
Aroclor 1260	NS	0.088 U	0.082 U	0.15 U	0.16 U	0.15 U	0.15 U
Total PCBs	0.09	ND	ND	ND	ND	ND	ND

Client ID	NYSDEC	MW-35 Cont.		MW-35R			
Lab Sample ID	Class GA	220-9180-5	220-9971-6	220-16768-19	460-36282-8	460-38772-1	460-42091-1
Date Sampled	Water Quality	5/28/2009	8/26/2009	10/21/2011	2/1/2012	4/5/2012	7/5/2012
Dilution	Standards	1	1	1	1	1	1
Parameter (µg/L)							
Aroclor 1016-Dissolved	NS	0.052 U	0.053 U	0.14 U	0.13 U	0.13 U	0.13 U
Aroclor 1221-Dissolved	NS	0.052 U	0.053 U	0.30 U	0.28 U	0.28 U	0.29 U
Aroclor 1232-Dissolved	NS	0.052 U	0.053 U	0.13 U	0.12 U	0.24 U	0.12 U
Aroclor 1242-Dissolved	NS	0.052 U	0.053 U	0.13 U	0.12 U	0.12 U	0.12 U
Aroclor 1248-Dissolved	NS	0.052 U	0.053 U	0.26 U	0.24 U	0.17 U	0.24 U
Aroclor 1254-Dissolved	NS	0.085 U	0.086 U	0.18 U	0.17 U	0.12 U	0.17 U
Aroclor 1260-Dissolved	NS	0.085 U	0.086 U	0.16 U	0.15 U	0.15 U	0.15 U *
Total Dissolved PCBs	0.09	ND	ND	ND	ND	ND	ND

Flushing Industrial Park, Parcels 1 - 3

Table 2

Historical Post-Remediation Groundwater Sample Laboratory Analytical Results

PCBs

Client ID	NYSDEC	MW-36					MW-36R					
Lab Sample ID	Class GA	213893-007	214586-009	220-1404-1	220-2268-4	220-3097-2	220-4162-2	922555	220-6176-8	220-7297-5	220-8234-2	220-9165-7
Date Sampled	Water Quality	10/6/2006	1/18/2007	4/20/2007	7/26/2007	10/16/2007	2/14/2008	5/22/2008	8/13/2008	11/20/2008	3/3/2009	5/27/2009
Dilution	Standards	1	1	1	1	1	1	1	1	1	1	1
Parameter (µg/L)												
Aroclor 1016	**NS**	0.058 U	0.057 U	0.057 U	0.061 U	0.083 U	0.077 U	0.57 U	0.078 U	0.082 U	0.054 U	0.054 U
Aroclor 1221	**NS**	0.11 U	0.11 U	0.11 U	0.11 U	0.27 U	0.25 U	0.57 U	0.33 U	0.35 U	0.054 U	0.054 U
Aroclor 1232	**NS**	0.083 U	0.081 U	0.081 U	0.087 U	0.12 U	0.11 U	0.57 U	0.078 U	0.082 U	0.054 U	0.054 U
Aroclor 1242	**NS**	0.073 U	0.072 U	0.072 U	0.077 U	0.13 U	0.12 U	0.57 U	0.078 U	0.082 U	0.054 U	0.054 U
Aroclor 1248	**NS**	0.061 U	0.06 U	0.06 U	0.065 U	0.17 U	0.16 U	0.57 U	0.078 U	0.082 U	0.054 U	0.054 U
Aroclor 1254	**NS**	0.096 U	0.094 U	0.094 U	0.1 U	0.043 U	0.04 U	0.57 U	0.047 U	0.049 U	0.088 U	0.089 U
Aroclor 1260	**NS**	0.084 U	0.082 U	0.082 UM	0.026 U	0.074 U	0.069 U	0.57 U	0.049 U	0.051 U	0.088 U	0.089 U
Total PCBs	**0.09**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Client ID	NYSDEC	MW-36					MW-36R					
Lab Sample ID	Class GA	213893-007	214586-009	220-1404-2	220-2268-9	220-3097-2	220-4162-9	922565	220-6176-13	220-7297-13	220-8234-7	220-9165-7
Date Sampled	Water Quality	10/6/2006	1/18/2007	4/20/2007	7/26/2007	10/16/2007	2/14/2008	5/22/2008	8/13/2008	11/20/2008	3/3/2009	5/27/2009
Dilution	Standards	1	1	1	1	1	1	1	1	1	1	1
Parameter (µg/L)												
Aroclor 1016-Dissolved	**NS**	0.057 U	0.057 U	0.057 U	0.061 U	0.079 U	0.082 U	0.52 U	0.082 U	0.082 U	0.052 U	0.056 U
Aroclor 1221-Dissolved	**NS**	0.11 U	0.11 U	0.11 U	0.11 U	0.25 U	0.26 U	0.52 U	0.35 U	0.35 U	0.052 U	0.056 U
Aroclor 1232-Dissolved	**NS**	0.081 U	0.081 U	0.081 U	0.087 U	0.12 U	0.12 U	0.52 U	0.082 U	0.082 U	0.052 U	0.056 U
Aroclor 1242-Dissolved	**NS**	0.072 U	0.072 U	0.072 U	0.077 U	0.13 U	0.13 U	0.52 U	0.082 U	0.082 U	0.052 U	0.056 U
Aroclor 1248-Dissolved	**NS**	0.06 U	0.06 U	0.06 U	0.065 U	0.16 U	0.17 U	0.52 U	0.082 U	0.082 U	0.052 U	0.056 U
Aroclor 1254-Dissolved	**NS**	0.094 U	0.094 U	0.094 U	0.1 U	0.041 U	0.042 U	0.52 U	0.049 U	0.049 U	0.085 U	0.091 U
Aroclor 1260-Dissolved	**NS**	0.082 U	0.082 U	0.082 U	0.026 U	0.07 U	0.073 U	0.52 U	0.051 U	0.052 U	0.085 U	0.091 U
Total Dissolved PCBs	**0.09**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Flushing Industrial Park, Parcels 1 - 3

Table 2

Historical Post-Remediation Groundwater Sample Laboratory Analytical Results

PCBs

Client ID	NYSDEC	MW-36R2			
Lab Sample ID	Class GA	220-16768-9	460-36282-7	460-38706-6	460-42028-5
Date Sampled	Water Quality	10/21/2011	2/1/2012	4/4/2012	7/3/2012
Dilution	Standards	1	1	1	1
Parameter (µg/L)					
Aroclor 1016	NS	0.13 U	0.13 U	0.13 U	0.13 U *
Aroclor 1221	NS	0.29 U	0.28 U	0.28 U	0.28 U
Aroclor 1232	NS	0.12 U	0.12 U	0.24 U	0.12 U
Aroclor 1242	NS	0.12 U	0.12 U	0.12 U	0.12 U
Aroclor 1248	NS	0.24 U	0.24 U	0.17 U	0.24 U
Aroclor 1254	NS	0.17 U	0.17 U	0.12 U	0.17 U
Aroclor 1260	NS	0.15 U	0.15 U	0.15 U	0.15 U
Total PCBs	0.09	ND	ND	ND	ND

Client ID	NYSDEC	MW-36R2			
Lab Sample ID	Class GA	220-16768-9	460-36282-7	460-38706-6	460-42028-5
Date Sampled	Water Quality	10/21/2011	2/1/2012	4/4/2012	7/3/2012
Dilution	Standards	1	1	1	1
Parameter (µg/L)					
Aroclor 1016-Dissolved	NS	0.14 U	0.13 U	0.13 U	0.13 U *
Aroclor 1221-Dissolved	NS	0.31 U	0.28 U	0.28 U	0.28 U
Aroclor 1232-Dissolved	NS	0.13 U	0.12 U	0.24 U	0.12 U
Aroclor 1242-Dissolved	NS	0.13 U	0.12 U	0.12 U	0.12 U
Aroclor 1248-Dissolved	NS	0.27 U	0.24 U	0.17 U	0.24 U
Aroclor 1254-Dissolved	NS	0.19 U	0.17 U	0.12 U	0.17 U
Aroclor 1260-Dissolved	NS	0.17 U	0.15 U	0.15 U	0.15 U
Total Dissolved PCBs	0.09	ND	ND	ND	ND

Flushing Industrial Park, Parcels 1 - 3

Table 2

Historical Post-Remediation Groundwater Sample Laboratory Analytical Results

PCBs

Client ID	NYSDEC	MW-37									
Lab Sample ID	Class GA	213893-020	214586-006	220-1404-3	220-2268-1	220-3079-4	220-4162-1	922557	220-6194-1	220-7297-4	220-8253-5
Date Sampled	Water Quality	10/16/2006	1/18/2007	4/19/2007	7/26/2007	10/15/2007	2/14/2008	5/22/2008	8/12/2008	11/20/2008	3/3/2009
Dilution	Standards	1	1	1	1	1	1	1	1	1	1
Parameter (µg/L)											
Aroclor 1016	**NS**	0.061 U	0.057 U	0.057 U	0.061 U	0.087 U	0.08 U	0.53 U	0.083 U	0.089 U	0.052 U
Aroclor 1221	**NS**	0.11 U	0.11 U	0.11 U	0.11 U	0.28 U	0.26 U	0.53 U	0.35 U	0.38 U	0.052 U
Aroclor 1232	**NS**	0.087 U	0.081 U	0.081 U	0.086 U	0.13 U	0.12 U	0.53 U	0.083 U	0.089 U	0.052 U
Aroclor 1242	**NS**	0.077 U	0.072 U	0.072 U	0.077 U	0.14 U	0.13 U	0.53 U	0.083 U	0.089 U	0.052 U
Aroclor 1248	**NS**	0.065 U	0.06 U	0.06 U	0.064 U	0.18 U	0.16 U	0.53 U	0.083 U	0.089 U	0.052 U
Aroclor 1254	**NS**	0.1 U	0.094 U	0.094 U	0.1 U	0.045 U	0.041 U	0.53 U	0.05 U	0.054 U	0.085 U
Aroclor 1260	**NS**	0.13 JM	0.082 U	0.082 U	0.026 U	0.077 U	0.071 U	0.53 U	0.052 U	0.056 U	0.085 U
Total PCBs	**0.09**	**0.13**	ND	ND	ND	ND	ND	ND	ND	ND	ND

Client ID	NYSDEC	MW-37									
Lab Sample ID	Class GA	213893-020	214586-006	220-1404-4	220-2268-6	220-3079-4	220-4162-8	922566	220-6194-6	220-7297-12	220-8253-6
Date Sampled	Water Quality	10/16/2006	1/18/2007	4/19/2007	7/26/2007	10/15/2007	2/14/2008	5/22/2008	8/12/2008	11/20/2008	3/3/2009
Dilution	Standards	1	1	1	1	1	1	1	1	1	1
Parameter (µg/L)											
Aroclor 1016-Dissolved	**NS**	0.061 U	0.057 U	0.057 U	0.061 U	0.079 U	0.08 U	0.52 U	0.083 U	0.087 U	0.05 U
Aroclor 1221-Dissolved	**NS**	0.11 U	0.11 U	0.11 U	0.11 U	0.25 U	0.26 U	0.52 U	0.35 U	0.37 U	0.05 U
Aroclor 1232-Dissolved	**NS**	0.087 U	0.081 U	0.081 U	0.087 U	0.12 U	0.12 U	0.52 U	0.083 U	0.087 U	0.05 U
Aroclor 1242-Dissolved	**NS**	0.077 U	0.072 U	0.072 U	0.077 U	0.13 U	0.13 U	0.52 U	0.083 U	0.087 U	0.05 U
Aroclor 1248-Dissolved	**NS**	0.065 U	0.06 U	0.06 U	0.065 U	0.16 U	0.16 U	0.52 U	0.083 U	0.087 U	0.05 U
Aroclor 1254-Dissolved	**NS**	0.1 U	0.094 U	0.094 U	0.1 U	0.041 U	0.041 U	0.52 U	0.05 U	0.052 U	0.082 U
Aroclor 1260-Dissolved	**NS**	0.088 U	0.082 U	0.082 U	0.026 U	0.07 U	0.071 U	0.52 U	0.052 U	0.055 U	0.082 U
Total Dissolved PCBs	**0.09**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Flushing Industrial Park, Parcels 1 - 3

Table 2

Historical Post-Remediation Groundwater Sample Laboratory Analytical Results

PCBs

Client ID	NYSDEC	MW-37 Cont.		MW-37R			
Lab Sample ID	Class GA	220-9165-6	220-9958-7	220-16768-15	460-36333-3	460-38706-4	460-42028-4
Date Sampled	Water Quality	5/27/2009	8/25/2009	10/20/2011	1/31/2012	4/4/2012	7/3/2012
Dilution	Standards	1	1	1	1	1	1
Parameter (µg/L)							
Aroclor 1016	**NS**	0.054 U	0.054 U	0.13 U	0.13 U	0.13 U	0.13 U *
Aroclor 1221	**NS**	0.054 U	0.054 U	0.28 U	0.28 U	0.28 U	0.28 U
Aroclor 1232	**NS**	0.054 U	0.054 U	0.12 U	0.12 U	0.24 U	0.12 U
Aroclor 1242	**NS**	0.054 U	0.054 U	0.12 U	0.12 U	0.12 U	0.12 U
Aroclor 1248	**NS**	0.054 U	0.054 U	0.24 U	0.24 U	0.17 U	0.24 U
Aroclor 1254	**NS**	0.088 U	0.088 U	0.17 U	0.17 U	0.12 U	0.17 U
Aroclor 1260	**NS**	0.088 U	0.088 U	0.15 U	0.81	0.15 U	0.15 U
Total PCBs	**0.09**	ND	ND	ND	**0.81**	ND	ND

Client ID	NYSDEC	MW-37 Cont.		MW-37R			
Lab Sample ID	Class GA	220-9165-6	220-9958-7	220-16768-15	460-36333-3	460-38706-4	460-42028-4
Date Sampled	Water Quality	5/27/2009	8/25/2009	10/20/2011	1/31/2012	4/4/2012	7/3/2012
Dilution	Standards	1	1	1	1	1	1
Parameter (µg/L)							
Aroclor 1016-Dissolved	**NS**	0.055 U	0.052 U	0.13 U	0.14 U	0.13 U	0.13 U *
Aroclor 1221-Dissolved	**NS**	0.055 U	0.052 U	0.28 U	0.29 U	0.29 U	0.28 U
Aroclor 1232-Dissolved	**NS**	0.055 U	0.052 U	0.12 U	0.13 U	0.24 U	0.12 U
Aroclor 1242-Dissolved	**NS**	0.055 U	0.052 U	0.12 U	0.13 U	0.12 U	0.12 U
Aroclor 1248-Dissolved	**NS**	0.055 U	0.052 U	0.24 U	0.25 U	0.17 U	0.24 U
Aroclor 1254-Dissolved	**NS**	0.090 U	0.085 U	0.17 U	0.18 U	0.12 U	0.17 U
Aroclor 1260-Dissolved	**NS**	0.090 U	0.085 U	0.34 J	0.99	0.15 U	0.15 U
Total Dissolved PCBs	**0.09**	ND	ND	**0.34**	**0.99**	ND	ND

Flushing Industrial Park, Parcels 1 - 3

Table 2

Historical Post-Remediation Groundwater Sample Laboratory Analytical Results

PCBs

Client ID	NYSDEC	MW-38									
Lab Sample ID	Class GA	213893-011	214586-008	220-1399-1	220-2239-11	220-3079-3	220-4147-6	922026	220-6194-2	220-7297-3	220-8234-1
Date Sampled	Water Quality	10/10/2006	1/18/2007	4/18/2007	7/25/2007	10/15/2007	2/13/2008	5/21/2008	8/12/2008	11/20/2008	3/3/2009
Dilution	Standards	1	1	1	2	1	1	1	1	1	1
Parameter (µg/L)											
Aroclor 1016	**NS**	0.057 U	0.061 U	0.057 U	0.12 U	0.072 U	0.082 U	0.51 U	0.085 U	0.088 U	0.055 U
Aroclor 1221	**NS**	0.11 U	0.11 U	0.11 U	0.22 U	0.23 U	0.26 U	0.51 U	0.36 U	0.38 U	0.055 U
Aroclor 1232	**NS**	0.081 U	0.087 U	0.081 U	0.17 U	0.11 U	0.12 U	0.51 U	0.085 U	0.088 U	0.055 U
Aroclor 1242	**NS**	0.072 U	0.077 U	0.072 U	0.15 U	0.11 U	0.13 U	0.51 U	0.085 U	0.088 U	0.055 U
Aroclor 1248	**NS**	0.06 U	0.065 U	0.06 U	0.13 U	0.15 U	0.17 U	0.51 U	0.085 U	0.088 U	0.055 U
Aroclor 1254	**NS**	0.094 U	0.1 U	0.094 U	0.2 U	0.037 U	0.042 U	0.51 U	0.051 U	0.053 U	0.09 U
Aroclor 1260	**NS**	0.082 U	0.19 JM	0.082 U	0.083 JM	0.064 U	0.16 JM	0.51 U	0.053 U	0.055 U	0.09 U
Total PCBs	**0.09**	ND	**0.19**	ND	0.083	ND	**0.16**	ND	ND	ND	ND

Client ID	NYSDEC	MW-38									
Lab Sample ID	Class GA	213893-011	214586-008	220-1399-2	220-2239-24	220-3079-3	220-4147-12	922028	220-6194-7	220-7297-11	220-8234-6
Date Sampled	Water Quality	10/10/2006	1/18/2007	4/18/2007	7/25/2007	10/15/2007	2/13/2008	5/21/2008	8/12/2008	11/20/2008	3/3/2009
Dilution	Standards	1	1	1	1	1	1	1	1	1	1
Parameter (µg/L)											
Aroclor 1016-Dissolved	**NS**	0.057 U	0.057 U	0.057 U	0.067 U	0.077 U	0.078 U	0.56 U	0.088 U	0.084 U	0.05 U
Aroclor 1221-Dissolved	**NS**	0.11 U	0.11 U	0.11 U	0.12 U	0.25 U	0.25 U	0.56 U	0.38 U	0.36 U	0.05 U
Aroclor 1232-Dissolved	**NS**	0.081 U	0.081 U	0.081 U	0.095 U	0.11 U	0.12 U	0.56 U	0.088 U	0.084 U	0.05 U
Aroclor 1242-Dissolved	**NS**	0.072 U	0.072 U	0.072 U	0.085 U	0.12 U	0.12 U	0.56 U	0.088 U	0.084 U	0.05 U
Aroclor 1248-Dissolved	**NS**	0.06 U	0.06 U	0.06 U	0.071 U	0.16 U	0.16 U	0.56 U	0.088 U	0.084 U	0.05 U
Aroclor 1254-Dissolved	**NS**	0.094 U	0.094 U	0.094 U	0.11 U	0.04 U	0.04 U	0.56 U	0.053 U	0.051 U	0.082 U
Aroclor 1260-Dissolved	**NS**	0.082 U	0.085 JM	0.082 U	0.028 U	0.069 U	0.07 U	0.56 U	0.055 U	0.053 U	0.082 U
Total Dissolved PCBs	**0.09**	ND	0.085	ND	ND	ND	ND	ND	ND	ND	ND

Flushing Industrial Park, Parcels 1 - 3

Table 2

Historical Post-Remediation Groundwater Sample Laboratory Analytical Results

PCBs

Client ID	NYSDEC	MW-38 Cont.		MW-38R			
Lab Sample ID	Class GA	220-9165-3	220-9958-5	220-16768-4	460-36282-2	460-38706-3	460-42028-3
Date Sampled	Water Quality	5/26/2009	8/25/2009	10/20/2011	1/30/2012	4/4/2012	7/3/2012
Dilution	Standards	1	1	1	1	1	1
Parameter (µg/L)							
Aroclor 1016	**NS**	0.054 U	0.050 U	0.13 U	0.13 U	0.13 U	0.13 U *
Aroclor 1221	**NS**	0.054 U	0.050 U	0.28 U	0.28 U	0.28 U	0.28 U
Aroclor 1232	**NS**	0.054 U	0.050 U	0.12 U	0.12 U	0.24 U	0.12 U
Aroclor 1242	**NS**	0.054 U	0.050 U	0.12 U	0.12 U	0.12 U	0.12 U
Aroclor 1248	**NS**	0.054 U	0.050 U	0.24 U	0.24 U	0.17 U	0.24 U
Aroclor 1254	**NS**	0.089 U	0.082 U	0.17 U	0.17 U	0.12 U	0.17 U
Aroclor 1260	**NS**	0.089 U	0.082 U	1.5	0.15 U	0.15 U	0.15 U
Total PCBs	**0.09**	ND	ND	**1.5**	ND	ND	ND

Client ID	NYSDEC	MW-38 Cont.		MW-38R			
Lab Sample ID	Class GA	220-9165-3	220-9958-5	220-16768-4	460-36282-2	460-38706-3	460-42028-3
Date Sampled	Water Quality	5/26/2009	8/25/2009	10/20/2011	1/30/2012	4/4/2012	7/3/2012
Dilution	Standards	1	1	1	1	1	1
Parameter (µg/L)							
Aroclor 1016-Dissolved	**NS**	0.054 U	0.054 U	0.13 U	0.13 U	0.13 U	0.13 U *
Aroclor 1221-Dissolved	**NS**	0.054 U	0.054 U	0.29 U	0.28 U	0.29 U	0.28 U
Aroclor 1232-Dissolved	**NS**	0.054 U	0.054 U	0.12 U	0.12 U	0.24 U	0.12 U
Aroclor 1242-Dissolved	**NS**	0.054 U	0.054 U	0.12 U	0.12 U	0.12 U	0.12 U
Aroclor 1248-Dissolved	**NS**	0.054 U	0.054 U	0.24 U	0.24 U	0.17 U	0.24 U
Aroclor 1254-Dissolved	**NS**	0.089 U	0.088 U	0.17 U	0.17 U	0.12 U	0.17 U
Aroclor 1260-Dissolved	**NS**	0.089 U	0.088 U	0.15 U	0.15 U	0.15 U	0.15 U
Total Dissolved PCBs	**0.09**	ND	ND	ND	ND	ND	ND

Flushing Industrial Park, Parcels 1 - 3

Table 2

Historical Post-Remediation Groundwater Sample Laboratory Analytical Results

PCBs

Client ID	NYSDEC	MW-39								
Lab Sample ID	Class GA	213893-010	214586-007	220-1357-3	220-3079-2	220-4147-5	922025	220-6194-3	220-7297-1	220-8221-5
Date Sampled	Water Quality	10/10/2006	1/18/2007	4/19/2007	10/15/2007	2/13/2008	5/21/2008	8/12/2008	11/19/2008	3/2/2009
Dilution	Standards	1	1	1	1	1	1	1	1	1
Parameter (µg/L)										
Aroclor 1016	**NS**	0.057 U	0.057 U	0.057 U	0.074 U	0.08 U	0.5 U	0.075 U	0.083 U	0.05 U
Aroclor 1221	**NS**	0.11 U	0.11 U	0.11 U	0.24 U	0.26 U	0.5 U	0.32 U	0.35 U	0.05 U
Aroclor 1232	**NS**	0.081 U	0.081 U	0.081 U	0.11 U	0.12 U	0.5 U	0.075 U	0.083 U	0.05 U
Aroclor 1242	**NS**	0.072 U	0.072 U	0.072 U	0.12 U	0.13 U	0.5 U	0.075 U	0.083 U	0.05 U
Aroclor 1248	**NS**	0.06 U	0.06 U	0.06 U	0.15 U	0.16 U	0.5 U	0.075 U	0.083 U	0.05 U
Aroclor 1254	**NS**	0.094 U	0.094 U	0.094 U	0.038 U	0.041 U	0.5 U	0.045 U	0.050 U	0.082 U
Aroclor 1260	**NS**	0.082 U	0.52 M	0.14 JM	0.066 U	0.071 U	0.5 U	0.047 U	0.052 U	0.082 U
Total PCBs	**0.09**	ND	**0.52**	**0.14**	ND	ND	ND	ND	ND	ND

Client ID	NYSDEC	MW-39								
Lab Sample ID	Class GA	213893-010	214586-007	220-1357-2	220-3079-2	220-4147-11	922027	220-6194-8	220-7297-10	220-8221-6
Date Sampled	Water Quality	10/10/2006	1/18/2007	4/13/2007	10/15/2007	2/13/2008	5/21/2008	8/12/2008	11/19/2008	3/2/2009
Dilution	Standards	1	1	1	1	1	1	1	1	1
Parameter (µg/L)										
Aroclor 1016-Dissolved	**NS**	0.063 U	0.057 U	0.057 U	0.077 U	0.08 U	0.52 U	0.075 U	0.082 U	0.05 U
Aroclor 1221-Dissolved	**NS**	0.12 U	0.11 U	0.11 U	0.25 U	0.26 U	0.52 U	0.32 U	0.35 U	0.05 U
Aroclor 1232-Dissolved	**NS**	0.089 U	0.081 U	0.081 U	0.11 U	0.12 U	0.52 U	0.075 U	0.082 U	0.05 U
Aroclor 1242-Dissolved	**NS**	0.079 U	0.072 U	0.072 U	0.12 U	0.13 U	0.52 U	0.075 U	0.082 U	0.05 U
Aroclor 1248-Dissolved	**NS**	0.066 U	0.06 U	0.06 U	0.16 U	0.16 U	0.52 U	0.075 U	0.082 U	0.05 U
Aroclor 1254-Dissolved	**NS**	0.1 U	0.094 U	0.094 U	0.04 U	0.041 U	0.52 U	0.045 U	0.049 U	0.082 U
Aroclor 1260-Dissolved	**NS**	0.09 U	0.097 JM	0.082 U	0.069 U	0.071 U	0.52 U	0.047 U	0.051 U	0.082 U
Total Dissolved PCBs	**0.09**	ND	**0.097**	ND	ND	ND	ND	ND	ND	ND

Flushing Industrial Park, Parcels 1 - 3

Table 2

Historical Post-Remediation Groundwater Sample Laboratory Analytical Results

PCBs

Client ID	NYSDEC	MW-39R			
Lab Sample ID	Class GA	220-16768-16	460-36333-2	460-38706-5	460-42028-2
Date Sampled	Water Quality	10/21/2011	1/31/2012	4/4/2012	7/3/2012
Dilution	Standards	1	1	1	1
Parameter (µg/L)					
Aroclor 1016	NS	0.13 U	0.13 U	0.13 U	0.13 U *
Aroclor 1221	NS	0.28 U	0.28 U	0.28 U	0.28 U
Aroclor 1232	NS	0.12 U	0.12 U	0.24 U	0.12 U
Aroclor 1242	NS	0.12 U	0.12 U	0.12 U	0.12 U
Aroclor 1248	NS	0.24 U	0.24 U	0.17 U	0.24 U
Aroclor 1254	NS	0.17 U	0.17 U	0.12 U	0.17 U
Aroclor 1260	NS	0.15 U	0.15 U	0.15 U	0.15 U
Total PCBs	0.09	ND	ND	ND	ND

Client ID	NYSDEC	MW-39R			
Lab Sample ID	Class GA	220-16768-16	460-36333-2	460-38706-5	460-42028-2
Date Sampled	Water Quality	10/21/2011	1/31/2012	4/4/2012	7/3/2012
Dilution	Standards	1	1	1	1
Parameter (µg/L)					
Aroclor 1016-Dissolved	NS	0.13 U	0.14 U	0.13 U	0.13 U *
Aroclor 1221-Dissolved	NS	0.28 U	0.3 U	0.29 U	0.28 U
Aroclor 1232-Dissolved	NS	0.12 U	0.13 U	0.24 U	0.12 U
Aroclor 1242-Dissolved	NS	0.12 U	0.13 U	0.12 U	0.12 U
Aroclor 1248-Dissolved	NS	0.24 U	0.26 U	0.17 U	0.24 U
Aroclor 1254-Dissolved	NS	0.17 U	0.18 U	0.12 U	0.17 U
Aroclor 1260-Dissolved	NS	0.15 U	0.16 U	0.15 U	0.15 U
Total Dissolved PCBs	0.09	ND	ND	ND	ND

Flushing Industrial Park, Parcels 1 - 3

Table 2

Historical Post-Remediation Groundwater Sample Laboratory Analytical Results

PCBs

Client ID	NYSDEC	MW-40							MW-40R		
Lab Sample ID	Class GA	213893-004	214586-003	220-1379-1	220-2239-9	220-3079-1	220-4147-4	220-6194-4	220-8213-1	220-9165-5	220-9958-4
Date Sampled	Water Quality	10/5/2006	1/16/2007	4/18/2007	7/25/2007	10/15/2007	2/13/2008	8/12/2008	2/26/2009	5/27/2009	8/25/2009
Dilution	Standards	1	1	1	1	1	1	1	1	1	1
Parameter (µg/L)											
Aroclor 1016	**NS**	0.063 U	0.073 U	0.057 U	0.061 U	0.079 U	0.08 U	0.075 U	0.056 U	0.054 U	0.054 U
Aroclor 1221	**NS**	0.12 U	0.14 U	0.11 U	0.11 U	0.25 U	0.26 U	0.32 U	0.056 U	0.054 U	0.054 U
Aroclor 1232	**NS**	0.089 U	0.1 U	0.081 U	0.086 U	0.12 U	0.12 U	0.075 U	0.056 U	0.054 U	0.054 U
Aroclor 1242	**NS**	0.079 U	0.092 U	0.072 U	0.077 U	0.13 U	0.13 U	0.075 U	0.056 U	0.054 U	0.054 U
Aroclor 1248	**NS**	0.066 U	0.077 U	0.06 U	0.064 U	0.16 U	0.16 U	0.075 U	0.056 U	0.054 U	0.054 U
Aroclor 1254	**NS**	0.1 U	0.12 U	0.094 U	0.1 U	0.041 U	0.3 JM	0.045 U	0.091 U	0.089 U	0.088 U
Aroclor 1260	**NS**	0.09 U	0.38 JM	0.13 JM	0.062 JM	0.07 U	0.29 JM	0.047 U	0.091 U	0.089 U	0.088 U
Total PCBs	**0.09**	ND	**0.38**	**0.13**	0.062	ND	**0.59**	ND	ND	ND	ND

Client ID	NYSDEC	MW-40							MW-40R		
Lab Sample ID	Class GA	213893-004	214586-003	220-1379-2	220-2239-22	220-3079-1	220-4147-10	220-6194-9	220-8213-2	220-9165-5	220-9958-4
Date Sampled	Water Quality	10/5/2006	1/16/2007	4/18/2007	7/25/2007	10/15/2007	2/13/2008	8/12/2008	2/26/2009	5/27/2009	8/25/2009
Dilution	Standards	1	1	1	1	1	1	1	1	1	1
Parameter (µg/L)											
Aroclor 1016-Dissolved	**NS**	0.063 U	0.072 U	0.057 U	0.057 U	0.081 U	0.082 U	0.082 U	0.050 U	0.056 U	0.054 U
Aroclor 1221-Dissolved	**NS**	0.12 U	0.13 U	0.11 U	0.11 U	0.26 U	0.26 U	0.35 U	0.050 U	0.056 U	0.054 U
Aroclor 1232-Dissolved	**NS**	0.089 U	0.1 U	0.081 U	0.081 U	0.12 U	0.12 U	0.082 U	0.050 U	0.056 U	0.054 U
Aroclor 1242-Dissolved	**NS**	0.079 U	0.091 U	0.072 U	0.072 U	0.13 U	0.13 U	0.082 U	0.050 U	0.056 U	0.054 U
Aroclor 1248-Dissolved	**NS**	0.066 U	0.076 U	0.06 U	0.06 U	0.16 U	0.17 U	0.082 U	0.050 U	0.056 U	0.054 U
Aroclor 1254-Dissolved	**NS**	0.1 U	0.12 U	0.094 U	0.094 U	0.042 U	0.042 U	0.049 U	0.082 U	0.092 U	0.088 U
Aroclor 1260-Dissolved	**NS**	0.09 U	0.1 U	0.082 U	0.024 U	0.072 U	0.073 U	0.051 U	0.082 U	0.092 U	0.088 U
Total Dissolved PCBs	**0.09**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Flushing Industrial Park, Parcels 1 - 3

Table 2

Historical Post-Remediation Groundwater Sample Laboratory Analytical Results

PCBs

Client ID	NYSDEC	MW-40R2			
Lab Sample ID	Class GA	220-16768-3	460-36282-4	460-38706-2	460-42028-1
Date Sampled	Water Quality	10/20/2011	1/30/2012	4/4/2012	7/2/2012
Dilution	Standards	1	1	1	1
Parameter (µg/L)					
Aroclor 1016	NS	0.13 U	0.13 U	0.13 U	0.13 U *
Aroclor 1221	NS	0.28 U	0.28 U	0.28 U	0.28 U
Aroclor 1232	NS	0.12 U	0.12 U	0.24 U	0.12 U
Aroclor 1242	NS	0.12 U	0.12 U	0.12 U	0.12 U
Aroclor 1248	NS	0.24 U	0.24 U	0.17 U	0.24 U
Aroclor 1254	NS	0.17 U	0.17 U	0.12 U	0.17 U
Aroclor 1260	NS	0.15 U	0.15 U	0.15 U	0.15 U
Total PCBs	0.09	ND	ND	ND	ND

Client ID	NYSDEC	MW-40R2			
Lab Sample ID	Class GA	220-16768-3	460-36282-4	460-38706-2	460-42028-1
Date Sampled	Water Quality	10/20/2011	1/30/2012	4/4/2012	7/2/2012
Dilution	Standards	1	1	1	1
Parameter (µg/L)					
Aroclor 1016-Dissolved	NS	0.13 U	0.13 U	0.14 U	0.13 U *
Aroclor 1221-Dissolved	NS	0.29 U	0.28 U	0.31 U	0.28 U
Aroclor 1232-Dissolved	NS	0.12 U	0.12 U	0.27 U	0.12 U
Aroclor 1242-Dissolved	NS	0.12 U	0.12 U	0.13 U	0.12 U
Aroclor 1248-Dissolved	NS	0.24 U	0.24 U	0.19 U	0.24 U
Aroclor 1254-Dissolved	NS	0.17 U	0.17 U	0.13 U	0.17 U
Aroclor 1260-Dissolved	NS	0.15 U	0.15 U	0.17 U	0.15 U
Total Dissolved PCBs	0.09	ND	ND	ND	ND

Flushing Industrial Park, Parcels 1 - 3

Table 2

Historical Post-Remediation Groundwater Sample Laboratory Analytical Results

PCBs

Client ID	NYSDEC	MW-41			MW-41R		MW-41R2					
Lab Sample ID	Class GA	213893-005	214586-005	220-1328-2	220-3097-3	220-4147-3	921701	220-6176-3	220-7278-3	220-8221-3	220-9165-4	220-9958-3
Date Sampled	Water Quality	10/5/2006	1/16/2007	4/10/2007	10/16/2007	2/13/2008	5/20/2008	8/11/2008	11/19/2008	3/2/2009	5/27/2009	8/24/2009
Dilution	Standards	1	1	1	1	1	1	1	1	1	1	1
Parameter (µg/L)												
Aroclor 1016	**NS**	0.057 U	0.057 U	0.057 U	0.08 U	0.08 U	0.52 U	0.082 U	0.088 U	0.052 U	0.054 U	0.055 U
Aroclor 1221	**NS**	0.11 U	0.11 U	0.11 U	0.26 U	0.26 U	0.52 U	0.35 U	0.38 U	0.052 U	0.054 U	0.055 U
Aroclor 1232	**NS**	0.081 U	0.081 U	0.081 U	0.12 U	0.12 U	0.52 U	0.082 U	0.088 U	0.052 U	0.054 U	0.055 U
Aroclor 1242	**NS**	0.072 U	0.072 U	0.072 U	0.13 U	0.13 U	0.52 U	0.082 U	0.088 U	0.052 U	0.054 U	0.055 U
Aroclor 1248	**NS**	0.06 U	0.06 U	0.06 U	0.16 U	0.16 U	0.52 U	0.082 U	0.088 U	0.052 U	0.054 U	0.055 U
Aroclor 1254	**NS**	0.094 U	0.094 U	0.094 U	0.041 U	0.041 U	0.52 U	0.049 U	0.053 U	0.085 U	0.089 U	0.09 U
Aroclor 1260	**NS**	0.082 U	0.1 JM	0.082 U	0.071 U	0.071 U	0.52 U	0.052 U	0.055 U	0.085 U	0.089 U	0.09 U
Total PCBs	**0.09**	ND	**0.1**	ND	ND	ND	ND	ND	ND	ND	ND	ND

Client ID	NYSDEC	MW-41			MW-41R		MW-41R2					
Lab Sample ID	Class GA	213893-005	214586-005	220-1328-4	220-3097-3	220-4147-9	922024	220-6176-7	220-7278-8	220-8221-4	220-9165-4	220-9958-3
Date Sampled	Water Quality	10/5/2006	1/16/2007	4/10/2007	10/16/2007	2/13/2008	5/20/2008	8/11/2008	11/19/2008	3/2/2009	5/27/2009	8/24/2009
Dilution	Standards	1	1	1	1	1	1	1	1	1	1	1
Parameter (µg/L)												
Aroclor 1016-Dissolved	**NS**	0.063 U	0.057 U	0.057 U	0.08 U	0.078 U	0.52 U	0.085 U	0.087 U	0.053 U	0.054 U	0.052 U
Aroclor 1221-Dissolved	**NS**	0.12 U	0.11 U	0.11 U	0.26 U	0.25 U	0.52 U	0.36 U	0.37 U	0.053 U	0.054 U	0.052 U
Aroclor 1232-Dissolved	**NS**	0.09 U	0.081 U	0.081 U	0.12 U	0.12 U	0.52 U	0.085 U	0.087 U	0.053 U	0.054 U	0.052 U
Aroclor 1242-Dissolved	**NS**	0.08 U	0.072 U	0.072 U	0.13 U	0.12 U	0.52 U	0.085 U	0.087 U	0.053 U	0.054 U	0.052 U
Aroclor 1248-Dissolved	**NS**	0.067 U	0.06 U	0.06 U	0.16 U	0.16 U	0.52 U	0.085 U	0.087 U	0.053 U	0.054 U	0.052 U
Aroclor 1254-Dissolved	**NS**	0.1 U	0.094 U	0.094 U	0.041 U	0.04 U	0.52 U	0.051 U	0.052 U	0.086 U	0.089 U	0.085 U
Aroclor 1260-Dissolved	**NS**	0.091 U	0.13 JM	0.082 U	0.071 U	0.07 U	0.52 U	0.053 U	0.055 U	0.086 U	0.089 U	0.085 U
Total Dissolved PCBs	**0.09**	ND	**0.13**	ND	ND	ND	ND	ND	ND	ND	ND	ND

Flushing Industrial Park, Parcels 1 - 3

Table 2

Historical Post-Remediation Groundwater Sample Laboratory Analytical Results

PCBs

Client ID	NYSDEC	MW-41R2 Cont.			MW-41R3
Lab Sample ID	Class GA	220-16768-12	460-36282-1	460-42021-3	460-38706-1
Date Sampled	Water Quality	10/20/2011	1/30/2012	7/2/2012	4/4/2012
Dilution	Standards	1	1	1	1
Parameter (µg/L)					
Aroclor 1016	NS	0.13 U	0.13 U	0.13 U	0.13 U
Aroclor 1221	NS	0.28 U	0.28 U	0.28 U	0.28 U
Aroclor 1232	NS	0.12 U	0.12 U	0.12 U	0.24 U
Aroclor 1242	NS	0.12 U	0.12 U	0.12 U	0.12 U
Aroclor 1248	NS	0.24 U	0.24 U	0.24 U	0.17 U
Aroclor 1254	NS	0.17 U	0.17 U	0.17 U	0.12 U
Aroclor 1260	NS	0.15 U	0.15 U	0.15 U *	0.15 U
Total PCBs	0.09	ND	ND	ND	ND

Client ID	NYSDEC	MW-41R2 Cont.			MW-41R3
Lab Sample ID	Class GA	220-16768-12	460-36282-1	460-42021-3	460-38706-1
Date Sampled	Water Quality	10/20/2011	1/30/2012	7/2/2012	4/4/2012
Dilution	Standards	1	1	1	1
Parameter (µg/L)					
Aroclor 1016-Dissolved	NS	0.14 U	0.13 U	0.13 U *	0.14 U
Aroclor 1221-Dissolved	NS	0.30 U	0.28 U	0.28 U	0.3 U
Aroclor 1232-Dissolved	NS	0.13 U	0.12 U	0.12 U	0.26 U
Aroclor 1242-Dissolved	NS	0.13 U	0.12 U	0.12 U	0.13 U
Aroclor 1248-Dissolved	NS	0.26 U	0.24 U	0.24 U	0.18 U
Aroclor 1254-Dissolved	NS	0.18 U	0.17 U	0.17 U	0.13 U
Aroclor 1260-Dissolved	NS	0.16 U	0.15 U	0.15 U	0.16 U
Total Dissolved PCBs	0.09	ND	ND	ND	ND

Flushing Industrial Park, Parcels 1 - 3

Table 2

Historical Post-Remediation Groundwater Sample Laboratory Analytical Results

PCBs

Client ID	NYSDEC	MW-42					MW-42R				
Lab Sample ID	Class GA	213893-002	214586-002	220-1328-1	220-2239-7	220-3097-1	220-4147-2	921700	220-6176-2	220-7278-2	220-8221-1
Date Sampled	Water Quality	10/4/2006	1/16/2007	4/9/2007	7/25/2007	10/16/2007	2/13/2008	5/20/2008	8/11/2008	11/19/2008	2/27/2009
Dilution	Standards	1	1	1	1	1	1	1	1	1	
Parameter (µg/L)											
Aroclor 1016	**NS**	0.057 U	0.057 U	0.057 U	0.065 U	0.081 U	0.075 U	0.56 U	0.075 U	0.080 U	0.055 U
Aroclor 1221	**NS**	0.11 U	0.11 U	0.11 U	0.12 U	0.26 U	0.24 U	0.56 U	0.32 U	0.34 U	0.055 U
Aroclor 1232	**NS**	0.081 U	0.081 U	0.081 U	0.092 U	0.12 U	0.11 U	0.56 U	0.075 U	0.080 U	0.055 U
Aroclor 1242	**NS**	0.072 U	0.072 U	0.072 U	0.082 U	0.13 U	0.12 U	0.56 U	0.075 U	0.080 U	0.055 U
Aroclor 1248	**NS**	0.06 U	0.06 U	0.06 U	0.068 U	0.16 U	0.15 U	0.56 U	0.075 U	0.080 U	0.055 U
Aroclor 1254	**NS**	0.094 U	0.094 U	0.094 U	0.11 U	0.042 U	0.039 U	0.56 U	0.045 U	0.048 U	0.09 U
Aroclor 1260	**NS**	0.082 U	0.082 U	0.082 U	0.027 U	0.072 U	0.067 U	0.56 U	0.047 U	0.050 U	0.09 U
Total PCBs	**0.09**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Client ID	NYSDEC	MW-42					MW-42R				
Lab Sample ID	Class GA	213893-002	214586-002	220-1328-3	220-2239-20	220-3097-1	220-4147-8	922023	220-6176-6	220-7278-7	220-8221-2
Date Sampled	Water Quality	10/4/2006	1/16/2007	4/9/2007	7/25/2007	10/16/2007	2/13/2008	5/20/2008	8/11/2008	11/19/2008	2/27/2009
Dilution	Standards	1	1	1	1	1	1	1	1	1	1
Parameter (µg/L)											
Aroclor 1016-Dissolved	**NS**	0.062 U	0.057 U	0.057 U	0.057 U	0.072 U	0.082 U	0.53 U	0.082 U	0.082 U	0.05 U
Aroclor 1221-Dissolved	**NS**	0.12 U	0.11 U	0.11 U	0.11 U	0.23 U	0.26 U	0.53 U	0.35 U	0.35 U	0.05 U
Aroclor 1232-Dissolved	**NS**	0.088 U	0.081 U	0.081 U	0.081 U	0.11 U	0.12 U	0.53 U	0.082 U	0.082 U	0.05 U
Aroclor 1242-Dissolved	**NS**	0.078 U	0.072 U	0.072 U	0.072 U	0.11 U	0.13 U	0.53 U	0.082 U	0.082 U	0.05 U
Aroclor 1248-Dissolved	**NS**	0.065 U	0.06 U	0.06 U	0.06 U	0.15 U	0.17 U	0.53 U	0.082 U	0.082 U	0.05 U
Aroclor 1254-Dissolved	**NS**	0.1 U	0.094 U	0.094 U	0.094 U	0.037 U	0.042 U	0.53 U	0.049 U	0.049 U	0.082 U
Aroclor 1260-Dissolved	**NS**	0.089 U	0.082 U	0.082 U	0.024 U	0.064 U	0.073 U	0.53 U	0.052 U	0.051 U	0.082 U
Total Dissolved PCBs	**0.09**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Flushing Industrial Park, Parcels 1 - 3

Table 2

Historical Post-Remediation Groundwater Sample Laboratory Analytical Results

PCBs

Client ID	NYSDEC	MW-42R Cont.		MW-42R Cont.		MW-42R2	
Lab Sample ID	Class GA	220-9165-2	220-9958-2	460-32773-2	460-36333-1	460-38654-2	460-42021-2
Date Sampled	Water Quality	5/26/2009	8/24/2009	10/24/2011	1/31/2012	4/3/2012	7/2/2012
Dilution	Standards	1	1	1	1	1	1
Parameter (µg/L)							
Aroclor 1016	**NS**	0.050 U	0.05 U	0.13 U *	0.13 U	0.15 U	0.13 U
Aroclor 1221	**NS**	0.050 U	0.05 U	0.28 U	0.28 U	0.33 U	0.28 U
Aroclor 1232	**NS**	0.050 U	0.05 U	0.12 U	0.12 U	0.14 U	0.12 U
Aroclor 1242	**NS**	0.050 U	0.05 U	0.12 U	0.12 U	0.14 U	0.12 U
Aroclor 1248	**NS**	0.050 U	0.05 U	0.24 U	0.24 U	0.28 U	0.24 U
Aroclor 1254	**NS**	0.082 U	0.082 U	0.17 U	0.17 U	0.2 U	0.17 U
Aroclor 1260	**NS**	0.082 U	0.082 U	0.15 U *	0.15 U	0.18 U	0.15 U *
Total PCBs	**0.09**	ND	ND	ND	ND	ND	ND

Client ID	NYSDEC	MW-42R Cont.		MW-42R Cont.		MW-42R2	
Lab Sample ID	Class GA	220-9165-2	220-9958-2	460-32773-2	460-36333-1	460-38654-2	460-42021-2
Date Sampled	Water Quality	5/26/2009	8/24/2009	10/24/2011	1/31/2012	4/3/2012	7/2/2012
Dilution	Standards	1	1	1	1	1	1
Parameter (µg/L)							
Aroclor 1016-Dissolved	**NS**	0.053 U	0.05 U	0.13 U	0.14 U	0.13 U	0.13 U *
Aroclor 1221-Dissolved	**NS**	0.053 U	0.05 U	0.28 U	0.3 U	0.28 U	0.28 U
Aroclor 1232-Dissolved	**NS**	0.053 U	0.05 U	0.12 U	0.13 U	0.12 U	0.12 U
Aroclor 1242-Dissolved	**NS**	0.053 U	0.05 U	0.12 U	0.13 U	0.12 U	0.12 U
Aroclor 1248-Dissolved	**NS**	0.053 U	0.05 U	0.24 U	0.26 U	0.24 U	0.24 U
Aroclor 1254-Dissolved	**NS**	0.086 U	0.082 U	0.17 U	0.18 U	0.17 U	0.17 U
Aroclor 1260-Dissolved	**NS**	0.086 U	0.082 U	0.15 U	0.16 U	0.15 U	0.15 U
Total Dissolved PCBs	**0.09**	ND	ND	ND	ND	ND	ND

Flushing Industrial Park, Parcels 1 - 3

Table 2

Historical Post-Remediation Groundwater Sample Laboratory Analytical Results

PCBs

Client ID	NYSDEC	MW-43				MW-43R		MW-43R2		MW-43R3		
Lab Sample ID	Class GA	213893-001	214586-001	220-1368-1	220-2239-8	220-4147-1	921286	220-6176-1	220-7278-1	220-8213-3	220-9165-1	220-9958-1
Date Sampled	Water Quality	10/4/2006	1/16/2007	4/17/2007	7/25/2007	2/13/2008	5/19/2008	8/11/2008	11/19/2008	2/27/2009	5/26/2009	8/24/2009
Dilution	Standards	1	1	1	1	1	1	1	1	1	1	1
Parameter (µg/L)												
Aroclor 1016	**NS**	0.06 U	0.061 U	0.057 U	0.057 U	0.078 U	0.52 U	0.084 U	0.089 U	0.050 U	0.050 U	0.053 U
Aroclor 1221	**NS**	0.11 U	0.11 U	0.11 U	0.11 U	0.25 U	0.52 U	0.36 U	0.38 U	0.050 U	0.050 U	0.053 U
Aroclor 1232	**NS**	0.085 U	0.086 U	0.081 U	0.081 U	0.12 U	0.52 U	0.084 U	0.089 U	0.050 U	0.050 U	0.053 U
Aroclor 1242	**NS**	0.076 U	0.077 U	0.072 U	0.072 U	0.12 U	0.52 U	0.084 U	0.089 U	0.050 U	0.050 U	0.053 U
Aroclor 1248	**NS**	0.063 U	0.064 U	0.06 U	0.06 U	0.16 U	0.52 U	0.084 U	0.089 U	0.050 U	0.050 U	0.053 U
Aroclor 1254	**NS**	0.099 U	0.1 U	0.22 JM	0.094 U	0.04 U	0.52 U	0.051 U	0.054 U	0.082 U	0.082 U	0.087 U
Aroclor 1260	**NS**	0.086 U	0.098 JM	0.18 JM	0.45 JM	0.07 U	0.52 U	0.053 U	0.056 U	0.082 U	0.082 U	0.087 U
Total PCBs	**0.09**	ND	**0.098**	**0.4**	**0.45**	ND	ND	ND	ND	ND	ND	ND

Client ID	NYSDEC	MW-43				MW-43R		MW-43R2		MW-43R3		
Lab Sample ID	Class GA	213893-001	214586-001	220-1368-2	220-2239-21	220-4147-7	921287	220-6176-5	220-7278-6	220-8213-4	220-9165-1	220-9958-1
Date Sampled	Water Quality	10/4/2006	1/16/2007	4/17/2007	7/25/2007	2/13/2008	5/19/2008	8/11/2008	11/19/2008	2/27/2009	5/26/2009	8/24/2009
Dilution	Standards	1	1	1	1	1	1	1	1	1	1	1
Parameter (µg/L)												
Aroclor 1016-Dissolved	**NS**	0.061 U	0.063 U	0.057 UH	0.057 U	0.076 U	0.56 U	0.083 U	0.089 U	0.053 U	0.050 U	0.059 U
Aroclor 1221-Dissolved	**NS**	0.11 U	0.12 U	0.11 UH	0.11 U	0.24 U	0.56 U	0.35 U	0.38 U	0.053 U	0.050 U	0.059 U
Aroclor 1232-Dissolved	**NS**	0.086 U	0.09 U	0.081 UH	0.081 U	0.11 U	0.56 U	0.083 U	0.089 U	0.053 U	0.050 U	0.059 U
Aroclor 1242-Dissolved	**NS**	0.077 U	0.08 U	0.072 UH	0.072 U	0.12 U	0.56 U	0.083 U	0.089 U	0.053 U	0.050 U	0.059 U
Aroclor 1248-Dissolved	**NS**	0.064 U	0.067 U	0.11 JMH	0.06 U	0.15 U	0.56 U	0.083 U	0.089 U	0.053 U	0.050 U	0.059 U
Aroclor 1254-Dissolved	**NS**	0.1 U	0.1 U	0.094 UH	0.094 U	0.039 U	0.56 U	0.05 U	0.054 U	0.086 U	0.082 U	0.096 U
Aroclor 1260-Dissolved	**NS**	0.11 JM	0.091 U	0.21 JMH	0.024 U	0.067 U	0.56 U	0.052 U	0.056 U	0.086 U	0.082 U	0.096 U
Total Dissolved PCBs	**0.09**	0.11	ND	**0.32**	ND	ND	ND	ND	ND	ND	ND	ND

Flushing Industrial Park, Parcels 1 - 3

Table 2

Historical Post-Remediation Groundwater Sample Laboratory Analytical Results

PCBs

Client ID	NYSDEC	MW-43R3 Cont.			
Lab Sample ID	Class GA	220-16768-1	460-36282-3	460-38654-1	460-42021-1
Date Sampled	Water Quality	10/20/2011	1/30/2012	4/3/2012	7/2/2012
Dilution	Standards	1	1	1	1
Parameter (µg/L)					
Aroclor 1016	**NS**	0.13 U	0.13 U	0.15 U	0.13 U
Aroclor 1221	**NS**	0.28 U	0.28 U	0.32 U	0.28 U
Aroclor 1232	**NS**	0.12 U	0.12 U	0.14 U	0.12 U
Aroclor 1242	**NS**	0.12 U	0.12 U	0.14 U	0.12 U
Aroclor 1248	**NS**	0.24 U	0.24 U	0.27 U	0.24 U
Aroclor 1254	**NS**	0.17 U	0.17 U	0.19 U	0.17 U
Aroclor 1260	**NS**	0.15 U	0.15 U	0.17 U	0.15 U *
Total PCBs	**0.09**	ND	ND	ND	ND

Client ID	NYSDEC	MW-43R3 Cont.			
Lab Sample ID	Class GA	220-16768-1	460-36282-3	460-38654-1	460-42021-1
Date Sampled	Water Quality	10/20/2011	1/30/2012	4/3/2012	7/2/2012
Dilution	Standards	1	1	1	1
Parameter (µg/L)					
Aroclor 1016-Dissolved	**NS**	0.14 U	0.13 U	0.13 U	0.13 U *
Aroclor 1221-Dissolved	**NS**	0.30 U	0.28 U	0.28 U	0.28 U
Aroclor 1232-Dissolved	**NS**	0.13 U	0.12 U	0.12 U	0.12 U
Aroclor 1242-Dissolved	**NS**	0.13 U	0.12 U	0.12 U	0.12 U
Aroclor 1248-Dissolved	**NS**	0.26 U	0.24 U	0.24 U	0.24 U
Aroclor 1254-Dissolved	**NS**	0.18 U	0.17 U	0.17 U	0.17 U
Aroclor 1260-Dissolved	**NS**	0.16 U	0.15 U	0.15 U	0.15 U
Total Dissolved PCBs	**0.09**	ND	ND	ND	ND

Flushing Industrial Park, Parcels 1 - 3

Table 2

Historical Post-Remediation Groundwater Sample Laboratory Analytical Results

PCBs

Client ID Lab Sample ID Date Sampled Dilution Parameter (µg/L)	NYSDEC Class GA Water Quality Standards	EB-50 213893-009 10/6/2006 1	ED-51 214586-016 1/22/2007 1	EB-53 220-2239-12 7/25/2007 1	EB-54 220-3135-4 10/18/2007 1	EB-55 220-4162-7 2/14/2008 1	EB-56 922744 5/23/2008 1	EB-57 220-6223-4 8/14/2008 1	EB-58 220-8277-3 3/5/2009 1	EB-59 220-9190-3 5/29/2009 1	EB-60 220-9971-1 8/26/2009 1
Aroclor 1016	**NS**	0.065 U	0.057 U	0.062 U	0.079 U	0.079 U	0.54 U	0.082 U	0.05 U	0.054 U	0.056 U
Aroclor 1221	**NS**	0.12 U	0.11 U	0.12 U	0.25 U	0.25 U	0.54 U	0.35 U	0.05 U	0.054 U	0.056 U
Aroclor 1232	**NS**	0.092 U	0.081 U	0.088 U	0.12 U	0.12 U	0.54 U	0.082 U	0.05 U	0.054 U	0.056 U
Aroclor 1242	**NS**	0.082 U	0.072 U	0.078 U	0.13 U	0.13 U	0.54 U	0.082 U	0.05 U	0.054 U	0.056 U
Aroclor 1248	**NS**	0.068 U	0.06 U	0.065 U	0.16 U	0.16 U	0.54 U	0.082 U	0.05 U	0.054 U	0.056 U
Aroclor 1254	**NS**	0.11 U	0.094 U	0.1 U	0.041 U	0.041 U	0.54 U	0.049 U	0.082 U	0.088 U	0.091 U
Aroclor 1260	**NS**	0.093 U	0.082 U	0.026 U	0.07 U	0.07 U	0.54 U	0.052 U	0.082 U	0.088 U	0.091 U
Total PCBs	**0.09**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Client ID Lab Sample ID Date Sampled Dilution Parameter (µg/L)	NYSDEC Class GA Water Quality Standards	EB-50 213893-009	ED-51 214586-016	EB-53 220-2239-12	EB-54 220-3135-4	EB-55 220-4162-7	EB-56 922744	EB-57 220-6223-4	EB-58 220-8277-3	EB-59 220-9190-3	EB-60 220-9971-1
Aroclor 1016-Dissolved	**NS**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1221-Dissolved	**NS**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1232-Dissolved	**NS**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1242-Dissolved	**NS**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1248-Dissolved	**NS**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1254-Dissolved	**NS**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1260-Dissolved	**NS**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Dissolved PCBs	**0.09**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Flushing Industrial Park, Parcels 1 - 3

Table 2

Historical Post-Remediation Groundwater Sample Laboratory Analytical Results

PCBs

Client ID Lab Sample ID Date Sampled Dilution Parameter (µg/L)	NYSDEC Class GA Water Quality Standards	EB-61 220-16775-4 10/25/2011 1	EB-62 460-36282-12 2/2/2012 1	EB-63 460-38848-5 4/6/2012 1	CE-EB-64 460-42091-11 7/6/2012 1	FIELD BLANK 220-1449-15 4/26/2007 1	Equipment Blank 220-7278-4 11/19/2008 1
Aroclor 1016	**NS**	0.13 U	0.13 U	0.13 U	0.13 U	0.057 U	0.081 U
Aroclor 1221	**NS**	0.28 U	0.28 U	0.28 U	0.28 U	0.11 U	0.34 U
Aroclor 1232	**NS**	0.12 U	0.12 U	0.24 U	0.12 U	0.081 U	0.081 U
Aroclor 1242	**NS**	0.12 U	0.12 U	0.12 U	0.12 U	0.072 U	0.081 U
Aroclor 1248	**NS**	0.24 U	0.24 U	0.17 U	0.24 U	0.06 U	0.081 U
Aroclor 1254	**NS**	0.17 U	0.17 U	0.12 U	0.17 U	0.094 U	0.048 U
Aroclor 1260	**NS**	0.15 U	0.15 U	0.15 U	0.15 U	0.082 UM	0.051 U
Total PCBs	**0.09**	ND	ND	ND	ND	ND	ND

Client ID Lab Sample ID Date Sampled Dilution Parameter (µg/L)	NYSDEC Class GA Water Quality Standards	EB-61 220-16775-4	EB-62 460-36282-12	EB-63 460-38848-5	CE-EB-64 460-42091-11	FIELD BLANK 220-1449-16 4/26/2007 1	Equipment Blank 220-7278-4
Aroclor 1016-Dissolved	**NS**	NA	NA	NA	NA	0.057 U	NA
Aroclor 1221-Dissolved	**NS**	NA	NA	NA	NA	0.11 U	NA
Aroclor 1232-Dissolved	**NS**	NA	NA	NA	NA	0.081 U	NA
Aroclor 1242-Dissolved	**NS**	NA	NA	NA	NA	0.072 U	NA
Aroclor 1248-Dissolved	**NS**	NA	NA	NA	NA	0.06 U	NA
Aroclor 1254-Dissolved	**NS**	NA	NA	NA	NA	0.094 U	NA
Aroclor 1260-Dissolved	**NS**	NA	NA	NA	NA	0.082 U	NA
Total Dissolved PCBs	**0.09**	NA	NA	NA	NA	ND	NA

Flushing Industrial Park, Parcels 1 - 3

Table 3

Post-Remediation Groundwater Sample Laboratory Analytical Results

PCBs

Client ID	NYSDEC	CE-MW-28R5								
Lab Sample ID	Class GA	460-45763-6	460-50440-8	460-54827-16	460-65324-9	460-74555-4	460-84728-7	180-43555-5	180-54318-1	180-78164-7
Date Sampled	Ambient	10/11/2012	02/06/2013	04/24/2013	10/22/2013	04/17/2014	10/17/2014	4/28/2015	4/29/2016	5/23/2018
Dilution	Standards	1	1	1		5	10	1	1	1
Polychlorinated Biphenyls - µg/L	µg/L									
PCB-1016	**NS**	0.0026 U	0.0025 U	0.0024 U	0.0026 U	0.013 U	0.025 U	0.0024 U	0.0039 U	0.0049 U
PCB-1221	**NS**	0.0025 U	0.0025 U	0.0024 U	0.0026 U	0.013 U	0.024 U	0.0039 U	0.0062 U	0.0058 U
PCB-1232	**NS**	0.003 U	0.0029 U	0.0028 U	0.0031 U	0.015 U	0.029 U	0.0038 U	0.0064 U	0.0053 U
PCB-1242	**NS**	0.0019 U	0.0019 U	0.0018 U	0.0019 U	0.0095 U	0.018 U	0.0018 U	0.0035 U	0.0093 U
PCB-1248	**NS**	0.0023 U	0.0023 U	0.0022 U	0.0024 U	0.012 U	0.022 U	0.0026 U	0.0034 U	0.0031 U
PCB-1254	**NS**	0.0023 U	0.0023 U	0.0022 U	0.0024 U	0.012 U	0.022 U	0.0029 U	0.0047 U	0.0097 U
PCB-1260	**NS**	0.0014 U	0.0014 U	0.0013 U	0.0014 U	0.0069 U	0.13	0.25	0.019	0.038
Total PCBs	**0.09**	ND	ND	ND	ND	ND	**0.13**	**0.25**	0.019	0.038

Dissolved - µg/L

Dilution		1	1	NA	NA	NA	NA	NA	NA	NA
PCB-1016	**NS**	0.0026 U	0.0024 U	NA	NA	NA	NA	NA	NA	NA
PCB-1221	**NS**	0.0025 U	0.0024 U	NA	NA	NA	NA	NA	NA	NA
PCB-1232	**NS**	0.003 U	0.0028 U	NA	NA	NA	NA	NA	NA	NA
PCB-1242	**NS**	0.0019 U	0.0018 U	NA	NA	NA	NA	NA	NA	NA
PCB-1248	**NS**	0.0023 U	0.0022 U	NA	NA	NA	NA	NA	NA	NA
PCB-1254	**NS**	0.0023 U	0.0022 U	NA	NA	NA	NA	NA	NA	NA
PCB-1260	**NS**	0.0014 U	0.0013 U	NA	NA	NA	NA	NA	NA	NA
Total Dissolved PCBs	**0.09**	ND	ND	NA	NA	NA	NA	NA	NA	NA

Flushing Industrial Park, Parcels 1 - 3

Table 3

Post-Remediation Groundwater Sample Laboratory Analytical Results

PCBs

Client ID	NYSDEC	CE-MW-28R5A							
Lab Sample ID	Class GA	460-45763-7	460-50440-9	460-54827-17	460-74555-5	460-84728-9	180-43555-6	180-54318-2	180-78164-8
Date Sampled	Ambient	10/11/2012	02/06/2013	04/24/2013	04/17/2014	10/17/2014	4/28/2015	4/29/2016	5/23/2018
Dilution	Standards	1	1	1	5	1	1	1	1
Polychlorinated Biphenyls - µg/L	µg/L								
PCB-1016	**NS**	0.0024 U	0.0024 U	0.0025 U	0.013 U	0.0025 U	0.0024 U	0.0038 U	0.0049 U
PCB-1221	**NS**	0.0024 U	0.0023 U	0.0025 U	0.013 U	0.0025 U	0.0039 U	0.0060 U	0.0058 U
PCB-1232	**NS**	0.0028 U	0.0028 U	0.0029 U	0.015 U	0.0029 U	0.0037 U	0.0062 U	0.0053 U
PCB-1242	**NS**	0.0018 U	0.0018 U	0.0019 U	0.0095 U	0.0018 U	0.0018 U	0.0035 U	0.0093 U
PCB-1248	**NS**	0.0022 U	0.0021 U	0.0023 U	0.012 U	0.0023 U	0.0025 U	0.0033 U	0.0031 U
PCB-1254	**NS**	0.0022 U	0.0022 U	0.0023 U	0.012 U	0.0023 U	0.0028 U	0.0046 U	0.0097 U
PCB-1260	**NS**	0.0013 U	0.0013 U	0.0014 U	0.0069 U	0.0013 U	0.24	0.011 p	0.014
Total PCBs	**0.09**	ND	ND	ND	ND	ND	**0.24**	0.011	0.014

Dissolved - µg/L

Dilution		1	1	NA	NA	NA	NA	NA	NA
PCB-1016	**NS**	0.0024 U	0.0024 U	NA	NA	NA	NA	NA	NA
PCB-1221	**NS**	0.0024 U	0.0023 U	NA	NA	NA	NA	NA	NA
PCB-1232	**NS**	0.0028 U	0.0028 U	NA	NA	NA	NA	NA	NA
PCB-1242	**NS**	0.0018 U	0.0018 U	NA	NA	NA	NA	NA	NA
PCB-1248	**NS**	0.0022 U	0.0021 U	NA	NA	NA	NA	NA	NA
PCB-1254	**NS**	0.0022 U	0.0022 U	NA	NA	NA	NA	NA	NA
PCB-1260	**NS**	0.0013 U	0.0013 U	NA	NA	NA	NA	NA	NA
Total Dissolved PCBs	**0.09**	ND	ND	NA	NA	NA	NA	NA	NA

Flushing Industrial Park, Parcels 1 - 3

Table 3

Post-Remediation Groundwater Sample Laboratory Analytical Results

PCBs

Client ID	NYSDEC	CE-MW-29R5							CE-MW-29R5
Lab Sample ID	Class GA	460-45763-5	460-50440-7	460-54827-15	460-65324-8	460-74555-6	460-84728-4	180-43555-4	180-78164-6
Date Sampled	Ambient	10/11/2012	02/06/2013	04/24/2013	10/22/2013	04/17/2014	10/17/2014	4/28/2015	5/23/2018
Dilution	Standards	1	1	1	1	5	10	1	1
Polychlorinated Biphenyls - µg/L	µg/L								
PCB-1016	**NS**	0.0025 U	0.0025 U	0.0024 U	0.0026 U	0.013 U	0.024 U	0.0024 U	0.0049 U
PCB-1221	**NS**	0.0025 U	0.0025 U	0.0024 U	0.0026 U	0.013 U	0.023 U	0.0039 U	0.0059 U
PCB-1232	**NS**	0.003 U	0.0029 U	0.0028 U	0.0031 U	0.015 U	0.028 U	0.0037 U	0.0054 U
PCB-1242	**NS**	0.0019 U	0.0019 U	0.0018 U	0.002 U	0.0098 U	0.018 U	0.0018 U	0.0094 U
PCB-1248	**NS**	0.0023 U	0.0023 U	0.0022 U	0.0024 U	0.012 U	0.021 U	0.0025 U	0.0031 U
PCB-1254	**NS**	0.0023 U	0.41	0.0022 U	0.0024 U	0.012 U	0.022 U	0.32	0.0098 U
PCB-1260	**NS**	0.038	0.35	1.5	0.15	0.0071 U	0.14	0.20	0.097
Total PCBs	**0.09**	0.038	**0.76**	**1.5**	**0.15**	ND	**0.14**	**0.52**	**0.097**

Dissolved - µg/L

Dilution		1	1	NA	NA	NA	NA	NA	NA
PCB-1016	**NS**	0.0026 U	0.0025 U	NA	NA	NA	NA	NA	NA
PCB-1221	**NS**	0.0026 U	0.0025 U	NA	NA	NA	NA	NA	NA
PCB-1232	**NS**	0.003 U	0.0029 U	NA	NA	NA	NA	NA	NA
PCB-1242	**NS**	0.0019 U	0.0019 U	NA	NA	NA	NA	NA	NA
PCB-1248	**NS**	0.0023 U	0.0023 U	NA	NA	NA	NA	NA	NA
PCB-1254	**NS**	0.0024 U	0.0023 U	NA	NA	NA	NA	NA	NA
PCB-1260	**NS**	0.0014 U	0.0014 U	NA	NA	NA	NA	NA	NA
Total Dissolved PCBs	**0.09**	ND	ND	NA	NA	NA	NA	NA	NA

Flushing Industrial Park, Parcels 1 - 3

Table 3

Post-Remediation Groundwater Sample Laboratory Analytical Results

PCBs

Client ID	NYSDEC	CE-MW-30R4							
Lab Sample ID	Class GA	460-45763-4	460-50440-6	460-54827-14	460-65324-7	460-74555-3	460-84728-3	180-43555-1	180-54318-3
Date Sampled	Ambient	10/11/2012	02/06/2013	04/24/2013	10/22/2013	04/17/2014	10/17/2014	4/28/2015	4/29/2016
Dilution	Standards	1	1	1	1	5	1	1	1
Polychlorinated Biphenyls - µg/L	µg/L								
PCB-1016	**NS**	0.0026 U	0.0024 U	0.0025 U	0.0026 U	0.013 U	0.0025 U	0.0024 U	0.0038 U
PCB-1221	**NS**	0.0025 U	0.0024 U	0.0025 U	0.0026 U	0.013 U	0.0025 U	0.0039 U	0.0061 U
PCB-1232	**NS**	0.003 U	0.0028 U	0.0029 U	0.0031 U	0.015 U	0.003 U	0.0037 U	0.0063 U
PCB-1242	**NS**	0.0019 U	0.0018 U	0.0018 U	0.002 U	0.0095 U	0.0019 U	0.0018 U	0.0035 U
PCB-1248	**NS**	0.0023 U	0.0022 U	0.0023 U	0.0024 U	0.012 U	0.0023 U	0.0026 U	0.0033 U
PCB-1254	**NS**	0.0023 U	0.0022 U	0.0023 U	0.0024 U	0.012 U	0.0023 U	0.0029 U	0.0046 U
PCB-1260	**NS**	0.0014 U	0.0013 U	0.0013 U	0.0014 U	0.0069 U	0.23	0.0068 J	0.022
Total PCBs	**0.09**	ND	ND	ND	ND	ND	**0.23**	0.0068	0.022

Dissolved - µg/L

Dilution		**1**	**1**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**
PCB-1016	**NS**	0.0026 U	0.0024 U	NA	NA	NA	NA	NA	NA
PCB-1221	**NS**	0.0025 U	0.0024 U	NA	NA	NA	NA	NA	NA
PCB-1232	**NS**	0.003 U	0.0028 U	NA	NA	NA	NA	NA	NA
PCB-1242	**NS**	0.0019 U	0.0018 U	NA	NA	NA	NA	NA	NA
PCB-1248	**NS**	0.0023 U	0.0022 U	NA	NA	NA	NA	NA	NA
PCB-1254	**NS**	0.0023 U	0.0022 U	NA	NA	NA	NA	NA	NA
PCB-1260	**NS**	0.0014 U	0.0013 U	NA	NA	NA	NA	NA	NA
Total Dissolved PCBs	**0.09**	ND	ND	NA	NA	NA	NA	NA	NA

Flushing Industrial Park, Parcels 1 - 3

Table 3

Post-Remediation Groundwater Sample Laboratory Analytical Results

PCBs

Client ID	NYSDEC	CE-MW-31R							CE-MW-31R2
Lab Sample ID	Class GA	460-45763-3	460-50440-5	460-54827-13	460-65324-6	460-74555-2	460-84728-2	180-54318-4	180-78164-5
Date Sampled	Ambient	10/11/2012	02/06/2013	04/24/2013	10/22/2013	04/17/2014	10/17/2014	4/29/2016	5/23/2018
Dilution	Standards	1	1	1	1	5	1	1	1
Polychlorinated Biphenyls - µg/L	µg/L								
PCB-1016	**NS**	0.0026 U	0.0024 U	0.0025 U	0.0026 U	0.013 U	0.0026 U	0.0037 U	0.0049 U
PCB-1221	**NS**	0.0025 U	0.0023 U	0.0025 U	0.0026 U	0.013 U	0.0026 U	0.0059 U	0.0058 U
PCB-1232	**NS**	0.003 U	0.0028 U	0.0029 U	0.0031 U	0.015 U	0.003 U	0.0061 U	0.0053 U
PCB-1242	**NS**	0.0019 U	0.0018 U	0.0018 U	0.002 U	0.0095 U	0.0019 U	0.0034 U	0.0093 U
PCB-1248	**NS**	0.0023 U	0.0021 U	0.0023 U	0.0024 U	0.012 U	0.0023 U	0.0032 U	0.0031 U
PCB-1254	**NS**	0.0023 U	0.0022 U	0.0023 U	0.0024 U	0.012 U	0.0024 U	0.0045 U	0.0097 U
PCB-1260	**NS**	0.072	0.080	0.78	0.049	0.0069 U	0.13	0.046	0.28
Total PCBs	**0.09**	0.07	0.080	**0.78**	0.049	ND	**0.13**	0.046	**0.28**

Dissolved - µg/L

Dilution		1	1	NA	NA	NA	NA	NA	NA
PCB-1016	**NS**	0.0026 U	0.0024 U	NA	NA	NA	NA	NA	NA
PCB-1221	**NS**	0.0025 U	0.0024 U	NA	NA	NA	NA	NA	NA
PCB-1232	**NS**	0.003 U	0.0028 U	NA	NA	NA	NA	NA	NA
PCB-1242	**NS**	0.0019 U	0.0018 U	NA	NA	NA	NA	NA	NA
PCB-1248	**NS**	0.0023 U	0.0022 U	NA	NA	NA	NA	NA	NA
PCB-1254	**NS**	0.0023 U	0.0022 U	NA	NA	NA	NA	NA	NA
PCB-1260	**NS**	0.0014 U	0.0013 U	NA	NA	NA	NA	NA	NA
Total Dissolved PCBs	**0.09**	ND	ND	NA	NA	NA	NA	NA	NA

Flushing Industrial Park, Parcels 1 - 3

Table 3

Post-Remediation Groundwater Sample Laboratory Analytical Results

PCBs

Client ID	NYSDEC	CE-MW-32R								CE-MW-32R2
Lab Sample ID	Class GA	460-45763-2	460-50440-4	460-54827-12	460-65324-5	460-74555-1	460-84728-1	180-43555-3	180-54318-5	180-78164-4
Date Sampled	Ambient	10/11/2012	02/06/2013	04/24/2013	10/22/2013	04/17/2014	10/16/2014	4/28/2015	4/29/2016	5/22/2018
Dilution	Standards	20	1	1	1	5	200	10	10	1
Polychlorinated Biphenyls - µg/L	µg/L									
PCB-1016	NS	0.053 U	0.0024 U	0.0024 U	0.0026 U	0.013 U	0.49 U	0.024 U	0.038 U	0.0050 U
PCB-1221	NS	0.052 U	0.0023 U	0.0024 U	0.0026 U	0.013 U	0.49 U	0.039 U	0.061 U	0.0060 U
PCB-1232	NS	0.062 U	0.0028 U	0.0028 U	0.0031 U	0.015 U	0.57 U	0.037 U	0.063 U	0.0054 U
PCB-1242	NS	0.039 U	0.0018 U	0.0018 U	0.0020 U	0.0095 U	0.36 U	0.018 U	0.035 U	0.0095 U
PCB-1248	NS	0.048 U	0.0021 U	0.0022 U	0.0024 U	0.012 U	0.45 U	0.026 U	0.033 U	0.0031 U
PCB-1254	NS	0.0023 U	0.0022 U	0.0022 U	0.0024 U	0.012 U	0.45 U	0.029 U	5.3	0.0099 U
PCB-1260	NS	9	1.4	0.0013 U	0.3 p	0.0069 U	190	17	7.4	1.7
Total PCBs	0.09	**9**	**1.4**	ND	**0.3**	ND	**190**	**17**	**12.7**	**1.7**
Dissolved - µg/L										
Dilution		1	1	NA	NA	NA	NA	NA	NA	NA
PCB-1016	NS	0.0026 U	0.0024 U	NA	NA	NA	NA	NA	NA	NA
PCB-1221	NS	0.0026 U	0.0024 U	NA	NA	NA	NA	NA	NA	NA
PCB-1232	NS	0.0031 U	0.0028 U	NA	NA	NA	NA	NA	NA	NA
PCB-1242	NS	0.002 U	0.0018 U	NA	NA	NA	NA	NA	NA	NA
PCB-1248	NS	0.0024 U	0.0022 U	NA	NA	NA	NA	NA	NA	NA
PCB-1254	NS	0.0024 U	0.0022 U	NA	NA	NA	NA	NA	NA	NA
PCB-1260	NS	0.0014 U	0.0013 U	NA	NA	NA	NA	NA	NA	NA
Total Dissolved PCBs	0.09	ND	ND	NA	NA	NA	NA	NA	NA	NA

Flushing Industrial Park, Parcels 1 - 3

Table 3

Post-Remediation Groundwater Sample Laboratory Analytical Results

PCBs

Client ID	NYSDEC	CE-MW-33R2					
Lab Sample ID	Class GA	460-45763-1	460-50440-2	460-54827-11	460-65324-4	460-74482-7	460-84728-5
Date Sampled	Ambient	10/11/2012	02/06/2013	04/23/2013	10/22/2013	04/16/2014	10/16/2014
Dilution	Standards	1	1	1	1	1	1
Polychlorinated Biphenyls - µg/L	µg/L						
PCB-1016	**NS**	0.0026 U	0.0024 U	0.0025 U	0.0025 U	0.0026 U	0.0025 U
PCB-1221	**NS**	0.0026 U	0.0024 U	0.0025 U	0.0025 U	0.0026 U	0.0025 U
PCB-1232	**NS**	0.0031 U	0.0028 U	0.0029 U	0.003 U	0.0031 U	0.0029 U
PCB-1242	**NS**	0.002 U	0.0018 U	0.0018 U	0.0019 U	0.0019 U	0.0018 U
PCB-1248	**NS**	0.0024 U	0.0022 U	0.0023 U	0.0023 U	0.0024 U	0.0023 U
PCB-1254	**NS**	0.0024 U	0.0022 U	0.0023 U	0.0023 U	0.0024 U	0.0023 U
PCB-1260	**NS**	0.034	0.0013 U	0.0013 U	0.0014 U	0.31	0.0013 U
Total PCBs	**0.09**	0.034	ND	ND	ND	**0.31**	ND

Dissolved - µg/L

Dilution		1	1	NA	NA	NA	NA
PCB-1016	**NS**	0.0026 U	0.0024 U	NA	NA	NA	NA
PCB-1221	**NS**	0.0026 U	0.0024 U	NA	NA	NA	NA
PCB-1232	**NS**	0.0031 U	0.0028 U	NA	NA	NA	NA
PCB-1242	**NS**	0.002 U	0.0018 U	NA	NA	NA	NA
PCB-1248	**NS**	0.0024 U	0.0022 U	NA	NA	NA	NA
PCB-1254	**NS**	0.0024 U	0.0022 U	NA	NA	NA	NA
PCB-1260	**NS**	0.0014 U	0.0013 U	NA	NA	NA	NA
Total Dissolved PCBs	**0.09**	ND	ND	NA	NA	NA	NA

Flushing Industrial Park, Parcels 1 - 3

Table 3

Post-Remediation Groundwater Sample Laboratory Analytical Results

PCBs

Client ID	NYSDEC	CE-MW-34R2								CE-MW-34R3
Lab Sample ID	Class GA	460-45653-6	460-50440-1	460-54827-10	460-65324-1	460-74482-6	460-84688-4	180-43555-2	180-54318-6	180-78164-3
Date Sampled	Ambient	10/9/2012	02/06/2013	04/23/2013	10/21/2013	04/16/2014	10/16/2014	4/28/2015	4/29/2016	5/22/2018
Dilution	Standards	1	1	1	1	1	1	1	1	1
Polychlorinated Biphenyls - µg/L	µg/L									
PCB-1016	**NS**	0.0026 U	0.0024 U	0.0024 U	0.0026 U	0.0026 U	0.0026 U	0.0025 U	0.0038 U	0.0049 U
PCB-1221	**NS**	0.0026 U	0.0023 U	0.0024 U	0.0026 U	0.0025 U	0.0025 U	0.0041 U	0.0061 U	0.0058 U
PCB-1232	**NS**	0.0031 U	0.0028 U	0.0028 U	0.003 U	0.003 U	0.003 U	0.0039 U	0.0063 U	0.0053 U
PCB-1242	**NS**	0.002 U	0.0018 U	0.0018 U	0.0019 U	0.0019 U	0.0019 U	0.0018 U	0.0035 U	0.0093 U
PCB-1248	**NS**	0.0024 U	0.0021 U	0.0022 U	0.0023 U	0.0023 U	0.0023 U	0.0027 U	0.0033 U	0.0031 U
PCB-1254	**NS**	0.0024 U	0.0022 U	0.0022 U	0.0024 U	0.0023 U	0.0023 U	0.0030 U	0.0046 U	0.0097 U
PCB-1260	**NS**	0.0098 J	0.13	0.0013 U	0.0014 U	0.074	0.15	0.015	0.022	0.040
Total PCBs	**0.09**	0.0098	**0.13**	ND	ND	0.074	**0.15**	0.015	0.022	0.04

Dissolved - µg/L

Dilution		1	1	NA	NA	NA	NA	NA	NA	NA
PCB-1016	**NS**	0.0026 U	0.0025 U	NA	NA	NA	NA	NA	NA	NA
PCB-1221	**NS**	0.0026 U	0.0025 U	NA	NA	NA	NA	NA	NA	NA
PCB-1232	**NS**	0.0031 U	0.0029 U	NA	NA	NA	NA	NA	NA	NA
PCB-1242	**NS**	0.0019 U	0.0019 U	NA	NA	NA	NA	NA	NA	NA
PCB-1248	**NS**	0.0024 U	0.0023 U	NA	NA	NA	NA	NA	NA	NA
PCB-1254	**NS**	0.0024 U	0.0023 U	NA	NA	NA	NA	NA	NA	NA
PCB-1260	**NS**	0.0014 U	0.0014 U	NA	NA	NA	NA	NA	NA	NA
Total Dissolved PCBs	**0.09**	ND	ND	NA	NA	NA	NA	NA	NA	NA

Flushing Industrial Park, Parcels 1 - 3

Table 3

Post-Remediation Groundwater Sample Laboratory Analytical Results

PCBs

Client ID	NYSDEC	CE-MW-35R					
Lab Sample ID	Class GA	460-45653-5	460-50383-5	460-54827-9	460-65324-2	460-74482-3	460-84728-6
Date Sampled	Ambient	10/9/2012	02/05/2013	04/23/2013	10/21/2013	04/16/2014	10/17/2014
Dilution	Standards	1	1	1	1	1	1
Polychlorinated Biphenyls - µg/L	µg/L						
PCB-1016	NS	0.0026 U	0.0025 U	0.0024 U	0.0026 U	0.0026 U	0.0025 U
PCB-1221	NS	0.0025 U	0.0025 U	0.0024 U	0.0026 U	0.0026 U	0.0024 U
PCB-1232	NS	0.003 U	0.0029 U	0.0028 U	0.003 U	0.0031 U	0.0029 U
PCB-1242	NS	0.0019 U	0.0018 U	0.0018 U	0.0019 U	0.0019 U	0.0018 U
PCB-1248	NS	0.0023 U	0.0023 U	0.0022 U	0.0023 U	0.0024 U	0.0022 U
PCB-1254	NS	0.0023 U	0.0023 U	0.0022 U	0.0024 U	0.0024 U	0.0022 U
PCB-1260	NS	0.0059 J	0.0013 U	0.0013 U	0.0014 U	0.039	0.0013 U
Total PCBs	0.09	0.0059	ND	ND	ND	0.039	ND

Dissolved - µg/L

Dilution		1	1	NA	NA	NA	NA
PCB-1016	NS	0.0026 U	0.0024 U	NA	NA	NA	NA
PCB-1221	NS	0.0026 U	0.0024 U	NA	NA	NA	NA
PCB-1232	NS	0.003 U	0.0028 U	NA	NA	NA	NA
PCB-1242	NS	0.0019 U	0.0018 U	NA	NA	NA	NA
PCB-1248	NS	0.0023 U	0.0022 U	NA	NA	NA	NA
PCB-1254	NS	0.0024 U	0.0022 U	NA	NA	NA	NA
PCB-1260	NS	0.0014 U	0.0013 U	NA	NA	NA	NA
Total Dissolved PCBs	0.09	ND	ND	NA	NA	NA	NA

Flushing Industrial Park, Parcels 1 - 3

Table 3

Post-Remediation Groundwater Sample Laboratory Analytical Results

PCBs

Client ID	NYSDEC	CE-MW-36R2					
Lab Sample ID	Class GA	460-45653-4	460-50383-4	460-54827-8	460-65222-6	460-74482-5	460-84688-1
Date Sampled	Ambient	10/9/2012	02/05/2013	04/23/2013	10/21/2013	04/16/2014	10/16/2014
Dilution	Standards	1	1	1	1	1	1
Polychlorinated Biphenyls - µg/L	µg/L						
PCB-1016	**NS**	0.0026 U	0.0025 U	0.0024 U	0.0026 U	0.0025 U	0.0025 U
PCB-1221	**NS**	0.0026 U	0.0024 U	0.0024 U	0.0026 U	0.0025 U	0.0025 U
PCB-1232	**NS**	0.0031 U	0.0029 U	0.0028 U	0.003 U	0.003 U	0.0029 U
PCB-1242	**NS**	0.002 U	0.0018 U	0.0018 U	0.0019 U	0.0019 U	0.0019 U
PCB-1248	**NS**	0.0024 U	0.0022 U	0.0022 U	0.0023 U	0.0023 U	0.0023 U
PCB-1254	**NS**	0.0024 U	0.0022 U	0.0022 U	0.0024 U	0.0023 U	0.0023 U
PCB-1260	**NS**	0.0014 U	0.0013 U	0.025	0.0014 U	0.0014 U	0.0014 U
Total PCBs	**0.09**	ND	ND	0.025	ND	ND	ND

Dissolved - µg/L

Dilution		1	1	NA	NA	NA	NA
PCB-1016	**NS**	0.0026 U	0.0024 U	NA	NA	NA	NA
PCB-1221	**NS**	0.0025 U	0.0023 U	NA	NA	NA	NA
PCB-1232	**NS**	0.003 U	0.0028 U	NA	NA	NA	NA
PCB-1242	**NS**	0.0019 U	0.0018 U	NA	NA	NA	NA
PCB-1248	**NS**	0.0023 U	0.0021 U	NA	NA	NA	NA
PCB-1254	**NS**	0.0023 U	0.0022 U	NA	NA	NA	NA
PCB-1260	**NS**	0.0014 U	0.0013 U	NA	NA	NA	NA
Total Dissolved PCBs	**0.09**	ND	ND	NA	NA	NA	NA

Flushing Industrial Park, Parcels 1 - 3

Table 3

Post-Remediation Groundwater Sample Laboratory Analytical Results

PCBs

Client ID	NYSDEC	CE-MW-37R						CE-MW-37R2
Lab Sample ID	Class GA	460-45653-3	460-50383-3	460-54827-7	460-65222-5	460-74482-4	460-84688-5	180-78164-2
Date Sampled	Ambient	10/9/2012	02/05/2013	04/23/2013	10/21/2013	04/16/2014	10/16/2014	5/22/2018
Dilution	Standards	1	1	1	1	1	1	1
Polychlorinated Biphenyls - µg/L	µg/L							
PCB-1016	**NS**	0.0026 U	0.0024 U	0.0026 U	0.0026 U	0.0026 U	0.0026 U	0.0050 U
PCB-1221	**NS**	0.0025 U	0.0023 U	0.0025 U	0.0026 U	0.0025 U	0.0025 U	0.0060 U
PCB-1232	**NS**	0.003 U	0.0028 U	0.0030 U	0.0031 U	0.003 U	0.0030 U	0.0054 U
PCB-1242	**NS**	0.0019 U	0.0018 U	0.0019 U	0.0019 U	0.0019 U	0.0019 U	0.0095 U
PCB-1248	**NS**	0.0023 U	0.0021 U	0.0023 U	0.0024 U	0.0023 U	0.0023 U	0.0031 U
PCB-1254	**NS**	0.0023 U	0.0022 U	0.22	0.0024 U	0.0023 U	0.0023 U	0.0099 U
PCB-1260	**NS**	0.25	0.035	0.33	0.039	0.35	0.11	0.10
Total PCBs	**0.09**	**0.25**	0.035	**0.55**	0.039	**0.35**	**0.11**	**0.1**

Dissolved - µg/L

Dilution		1	1	NA	NA	NA	NA	NA
PCB-1016	**NS**	0.0025 U	0.0025 U	NA	NA	NA	NA	NA
PCB-1221	**NS**	0.0025 U	0.0025 U	NA	NA	NA	NA	NA
PCB-1232	**NS**	0.003 U	0.0029 U	NA	NA	NA	NA	NA
PCB-1242	**NS**	0.0019 U	0.0019 U	NA	NA	NA	NA	NA
PCB-1248	**NS**	0.0023 U	0.0023 U	NA	NA	NA	NA	NA
PCB-1254	**NS**	0.0023 U	0.0023 U	NA	NA	NA	NA	NA
PCB-1260	**NS**	0.0014 U	0.0014 U	NA	NA	NA	NA	NA
Total Dissolved PCBs	**0.09**	ND	ND	NA	NA	NA	NA	NA

Flushing Industrial Park, Parcels 1 - 3

Table 3

Post-Remediation Groundwater Sample Laboratory Analytical Results

PCBs

Client ID	NYSDEC	CE-MW-38R								CE-MW-38R2
Lab Sample ID	Class GA	460-45653-2	460-50440-3	460-54827-6	460-65222-3	460-74482-1	460-84688-2	180-43485-6	180-54291-6	180-78460-1
Date Sampled	Ambient	10/9/2012	02/06/2013	04/23/2013	10/21/2013	04/16/2014	10/16/2014	4/27/2015	4/28/2016	6/4/2018
Dilution	Standards	1	1	1	1	1	1	1	1	1
Polychlorinated Biphenyls - µg/L	µg/L									
PCB-1016	**NS**	0.0026 U	0.0025 U	0.0024 U	0.0026 U	0.0026 U	0.0025 U	0.0024 U	0.0039 U	0.0052 U
PCB-1221	**NS**	0.0025 U	0.0025 U	0.0023 U	0.0026 U	0.0025 U	0.0025 U	0.0039 U	0.0062 U	0.0062 U
PCB-1232	**NS**	0.003 U	0.0029 U	0.0028 U	0.003 U	0.003 U	0.0029 U	0.0037 U	0.0064 U	0.0057 U
PCB-1242	**NS**	0.0019 U	0.0018 U	0.0018 U	0.0019 U	0.0019 U	0.0019 U	0.0018 U	0.0035 U	0.0099 U
PCB-1248	**NS**	0.0023 U	0.0023 U	0.0021 U	0.0023 U	0.0023 U	0.0023 U	0.0025 U	0.0034 U	0.0033 U
PCB-1254	**NS**	0.0023 U	0.0023 U	0.0022 U	0.0024 U	0.0023 U	0.0023 U	0.0028 U	0.0047 U	0.010 U
PCB-1260	**NS**	0.72	0.0013 U	0.025	0.79	0.0014 U	0.044	0.81	0.0071 J	0.012
Total PCBs	**0.09**	**0.72**	ND	0.025	**0.79**	ND	0.044	**0.81**	0.0071	0.012

Dissolved - µg/L

Dilution		1	1	NA	NA	NA	NA	NA	NA	NA
PCB-1016	**NS**	0.0026 U	0.0025 U	NA	NA	NA	NA	NA	NA	NA
PCB-1221	**NS**	0.0026 U	0.0025 U	NA	NA	NA	NA	NA	NA	NA
PCB-1232	**NS**	0.003 U	0.0029 U	NA	NA	NA	NA	NA	NA	NA
PCB-1242	**NS**	0.0019 U	0.0019 U	NA	NA	NA	NA	NA	NA	NA
PCB-1248	**NS**	0.0023 U	0.0023 U	NA	NA	NA	NA	NA	NA	NA
PCB-1254	**NS**	0.0024 U	0.0023 U	NA	NA	NA	NA	NA	NA	NA
PCB-1260	**NS**	0.0014 U	0.0014 U	NA	NA	NA	NA	NA	NA	NA
Total Dissolved PCBs	**0.09**	ND	ND	NA	NA	NA	NA	NA	NA	NA

Flushing Industrial Park, Parcels 1 - 3

Table 3

Post-Remediation Groundwater Sample Laboratory Analytical Results

PCBs

Client ID	NYSDEC	CE-MW-39R							
Lab Sample ID	Class GA	460-45606-4	460-50383-2	460-54827-5	460-65222-4	460-74408-4	460-84688-6	180-43485-5	180-54291-5
Date Sampled	Ambient	10/8/2012	02/05/2013	04/23/2013	10/21/2013	04/15/2014	10/16/2014	4/27/2015	4/28/2016
Dilution	Standards	1	1	1	1	1	1	1	1
Polychlorinated Biphenyls - µg/L	µg/L								
PCB-1016	**NS**	0.0026 U	0.0025 U	0.0025 U	0.0026 U	0.0026 U	0.0026 U	0.0024 U	0.0039 U
PCB-1221	**NS**	0.0026 U	0.0024 U	0.0025 U	0.0026 U	0.0025 U	0.0025 U	0.0039 U	0.0062 U
PCB-1232	**NS**	0.003 U	0.0029 U	0.0029 U	0.0031 U	0.003 U	0.003 U	0.0038 U	0.0064 U
PCB-1242	**NS**	0.0019 U	0.0018 U	0.0019 U	0.0019 U	0.0019 U	0.0019 U	0.0018 U	0.0035 U
PCB-1248	**NS**	0.0023 U	0.0022 U	0.0023 U	0.0024 U	0.0023 U	0.0023 U	0.0026 U	0.0034 U
PCB-1254	**NS**	0.0024 U	0.032	0.0023 U	0.0024 U	0.0023 U	0.0023 U	0.0029 U	0.0047 U
PCB-1260	**NS**	0.0014 U	0.0013 U	0.0014 U	0.04	0.0014 U	0.0055 J	0.012	0.0065 J
Total PCBs	**0.09**	ND	0.032	ND	0.04	ND	0.0055	0.012	0.0065

Dissolved - µg/L

Dilution		1	1	NA	NA	NA	NA	NA	NA
PCB-1016	**NS**	0.0026 U	0.0025 U	NA	NA	NA	NA	NA	NA
PCB-1221	**NS**	0.0026 U	0.0025 U	NA	NA	NA	NA	NA	NA
PCB-1232	**NS**	0.0031 U	0.0029 U	NA	NA	NA	NA	NA	NA
PCB-1242	**NS**	0.002 U	0.0019 U	NA	NA	NA	NA	NA	NA
PCB-1248	**NS**	0.0024 U	0.0023 U	NA	NA	NA	NA	NA	NA
PCB-1254	**NS**	0.0024 U	0.0023 U	NA	NA	NA	NA	NA	NA
PCB-1260	**NS**	0.0014 U	0.0014 U	NA	NA	NA	NA	NA	NA
Total Dissolved PCBs	**0.09**	ND	ND	NA	NA	NA	NA	NA	NA

Flushing Industrial Park, Parcels 1 - 3

Table 3

Post-Remediation Groundwater Sample Laboratory Analytical Results

PCBs

Client ID	NYSDEC	CE-MW-40R2						
Lab Sample ID	Class GA	460-45606-3	460-50383-1	460-54827-4	460-65222-2	460-74408-3	460-84688-7	180-43485-4
Date Sampled	Ambient	10/8/2012	02/05/2013	04/23/2013	10/21/2013	04/15/2014	10/16/2014	4/27/2015
Dilution	Standards	1	1	1	1	1	1	1
Polychlorinated Biphenyls - µg/L	µg/L							
PCB-1016	NS	0.0026 U	0.0024 U	0.0026 U	0.0026 U	0.0026 U	0.0025 U	0.0025 U
PCB-1221	NS	0.0026 U	0.0024 U	0.0025 U	0.0026 U	0.0025 U	0.0025 U	0.0041 U
PCB-1232	NS	0.003 U	0.0028 U	0.0030 U	0.0031 U	0.003 U	0.0029 U	0.0039 U
PCB-1242	NS	0.0019 U	0.0018 U	0.0019 U	0.0019 U	0.0019 U	0.0019 U	0.0019 U
PCB-1248	NS	0.0023 U	0.0022 U	0.0023 U	0.0024 U	0.0023 U	0.0023 U	0.0027 U
PCB-1254	NS	0.0024 U	0.0022 U	0.0023 U	0.0024 U	0.0023 U	0.0023 U	0.0030 U
PCB-1260	NS	0.0014 U	0.0013 U	0.0014 U	0.0014 U	0.0014 U	0.0014 U	0.0017 U
Total PCBs	0.09	ND	ND	ND	ND	ND	ND	ND

Dissolved - µg/L

Dilution		1	1	NA	NA	NA	NA	NA
PCB-1016	NS	0.0026 U	0.0026 U	NA	NA	NA	NA	NA
PCB-1221	NS	0.0026 U	0.0025 U	NA	NA	NA	NA	NA
PCB-1232	NS	0.0031 U	0.0030 U	NA	NA	NA	NA	NA
PCB-1242	NS	0.002 U	0.0019 U	NA	NA	NA	NA	NA
PCB-1248	NS	0.0024 U	0.0023 U	NA	NA	NA	NA	NA
PCB-1254	NS	0.0024 U	0.0023 U	NA	NA	NA	NA	NA
PCB-1260	NS	0.0014 U	0.0014 U	NA	NA	NA	NA	NA
Total Dissolved PCBs	0.09	ND	ND	NA	NA	NA	NA	NA

Flushing Industrial Park, Parcels 1 - 3

Table 3

Post-Remediation Groundwater Sample Laboratory Analytical Results

PCBs

Client ID	NYSDEC	CE-MW-41R3						
Lab Sample ID	Class GA	460-45653-1	460-50335-2	460-54827-3	460-65324-3	460-74408-2	180-43485-3	180-54291-4
Date Sampled	Ambient	10/9/2012	02/04/2013	04/22/2013	10/22/2013	04/15/2014	4/27/2015	4/28/2016
Dilution	Standards	1	1	1	1	1	1	1
Polychlorinated Biphenyls - µg/L	µg/L							
PCB-1016	NS	0.0026 U	0.0024 U	0.0024 U	0.0026 U	0.0026 U	0.0025 U	0.0039 U
PCB-1221	NS	0.0025 U	0.0024 U	0.0024 U	0.0026 U	0.0025 U	0.0041 U	0.0062 U
PCB-1232	NS	0.003 U	0.0028 U	0.0028 U	0.0031 U	0.003 U	0.0039 U	0.0064 U
PCB-1242	NS	0.0019 U	0.0018 U	0.0018 U	0.002 U	0.0019 U	0.0019 U	0.0035 U
PCB-1248	NS	0.0023 U	0.0022 U	0.0022 U	0.0024 U	0.0023 U	0.0027 U	0.0034 U
PCB-1254	NS	0.0023 U	0.0022 U	0.0022 U	0.0024 U	0.0023 U	0.0030 U	0.0047 U
PCB-1260	NS	0.0014 U	0.0013 U	0.0013 U	0.0014 U	0.0014 U	0.0064 J	0.0030 U
Total PCBs	0.09	ND	ND	ND	ND	ND	0.0064	ND

Dissolved - µg/L

Dilution		1	1	NA	NA	NA	NA	NA
PCB-1016	NS	0.0025 U	0.0025 U	NA	NA	NA	NA	NA
PCB-1221	NS	0.0025 U	0.0025 U	NA	NA	NA	NA	NA
PCB-1232	NS	0.003 U	0.0029 U	NA	NA	NA	NA	NA
PCB-1242	NS	0.0019 U	0.0018 U	NA	NA	NA	NA	NA
PCB-1248	NS	0.0023 U	0.0023 U	NA	NA	NA	NA	NA
PCB-1254	NS	0.0023 U	0.0023 U	NA	NA	NA	NA	NA
PCB-1260	NS	0.0014 U	0.0013 U	NA	NA	NA	NA	NA
Total Dissolved PCBs	0.09	ND	ND	NA	NA	NA	NA	NA

Flushing Industrial Park, Parcels 1 - 3

Table 3

Post-Remediation Groundwater Sample Laboratory Analytical Results

PCBs

Client ID	NYSDEC	CE-MW-42R2						
Lab Sample ID	Class GA	460-45606-2	460-50335-3	460-54827-2	460-74408-1	180-38015-1	180-43485-2	180-54291-3
Date Sampled	Ambient	10/8/2012	02/04/2013	04/22/2013	04/15/2014	10/21/2014	4/27/2015	4/28/2016
Dilution	Standards	1	1	1	1	1	1	1
Polychlorinated Biphenyls - µg/L	µg/L							
PCB-1016	**NS**	0.0026 U	0.0024 U	0.0024 U	0.0026 U	0.0026 U	0.0025 U	0.0039 U
PCB-1221	**NS**	0.0026 U	0.0024 U	0.0024 U	0.0026 U	0.0043 U	0.0041 U	0.0062 U
PCB-1232	**NS**	0.003 U	0.0028 U	0.0028 U	0.0031 U	0.0041 U	0.0039 U	0.0064 U
PCB-1242	**NS**	0.0019 U	0.0018 U	0.0018 U	0.0019 U	0.002 U	0.0019 U	0.0035 U
PCB-1248	**NS**	0.0023 U	0.0022 U	0.0022 U	0.0024 U	0.0028 U	0.0027 U	0.0034 U
PCB-1254	**NS**	0.0024 U	0.0022 U	0.0022 U	0.0024 U	0.0032 U	0.0030 U	0.0047 U
PCB-1260	**NS**	0.0014 U	0.0013 U	0.0013 U	0.0014 U	0.0018 U	0.0034 J	0.0030 U
Total PCBs	**0.09**	ND	ND	ND	ND	ND	0.0034	ND

Dissolved - µg/L

Dilution		1	1	NA	NA	NA	NA	NA
PCB-1016	**NS**	0.0026 U	0.0025 U	NA	NA	NA	NA	NA
PCB-1221	**NS**	0.0026 U	0.0025 U	NA	NA	NA	NA	NA
PCB-1232	**NS**	0.003 U	0.0029 U	NA	NA	NA	NA	NA
PCB-1242	**NS**	0.0019 U	0.0018 U	NA	NA	NA	NA	NA
PCB-1248	**NS**	0.0023 U	0.0023 U	NA	NA	NA	NA	NA
PCB-1254	**NS**	0.0024 U	0.0023 U	NA	NA	NA	NA	NA
PCB-1260	**NS**	0.0014 U	0.0013 U	NA	NA	NA	NA	NA
Total Dissolved PCBs	**0.09**	ND	ND	NA	NA	NA	NA	NA

Flushing Industrial Park, Parcels 1 - 3

Table 3

Post-Remediation Groundwater Sample Laboratory Analytical Results

PCBs

Client ID	NYSDEC	CE-MW-43R3							
Lab Sample ID	Class GA	460-45606-1	460-50335-1	460-54827-1	460-65222-1	460-74482-2	460-84688-3	180-43485-1	180-54291-2
Date Sampled	Ambient	10/8/2012	02/04/2013	04/22/2013	10/21/2013	04/16/2014	10/16/2014	4/27/2015	4/28/2016
Dilution	Standards	1	1	1	1	1	1	1	1
Polychlorinated Biphenyls - µg/L	µg/L								
PCB-1016	**NS**	0.0026 U	0.0025 U	0.0025 U	0.0026 U	0.0026 U	0.0024 U	0.0025 U	0.0037 U
PCB-1221	**NS**	0.0025 U	0.0025 U	0.0024 U	0.0025 U	0.0026 U	0.0023 U	0.0041 U	0.0060 U
PCB-1232	**NS**	0.003 U	0.0029 U	0.0029 U	0.003 U	0.0031 U	0.0028 U	0.0039 U	0.0062 U
PCB-1242	**NS**	0.0019 U	0.0019 U	0.0018 U	0.0019 U	0.002 U	0.0018 U	0.0019 U	0.0034 U
PCB-1248	**NS**	0.0023 U	0.0023 U	0.0022 U	0.0023 U	0.0024 U	0.0021 U	0.0027 U	0.0033 U
PCB-1254	**NS**	0.0023 U	0.0023 U	0.0022 U	0.0023 U	0.0024 U	0.0022 U	0.0030 U	0.0045 U
PCB-1260	**NS**	0.0014 U	0.0014 U	0.043	0.0014 U	0.0014 U	0.0013 U	0.0017 U	0.0029 U
Total PCBs	**0.09**	ND	ND	0.043	ND	ND	ND	ND	ND

Dissolved - µg/L

Dilution		1	1	NA	NA	NA	NA	NA	NA
PCB-1016	**NS**	0.0026 U	0.0025 U	NA	NA	NA	NA	NA	NA
PCB-1221	**NS**	0.0025 U	0.0025 U	NA	NA	NA	NA	NA	NA
PCB-1232	**NS**	0.003 U	0.0029 U	NA	NA	NA	NA	NA	NA
PCB-1242	**NS**	0.0019 U	0.0019 U	NA	NA	NA	NA	NA	NA
PCB-1248	**NS**	0.0023 U	0.0023 U	NA	NA	NA	NA	NA	NA
PCB-1254	**NS**	0.0023 U	0.0023 U	NA	NA	NA	NA	NA	NA
PCB-1260	**NS**	0.0014 U	0.0014 U	NA	NA	NA	NA	NA	NA
Total Dissolved PCBs	**0.09**	ND	ND	NA	NA	NA	NA	NA	NA

Flushing Industrial Park, Parcels 1 - 3

Table 3

Post-Remediation Groundwater Sample Laboratory Analytical Results

PCBs

Client ID	NYSDEC	CE-EB-65	CE-EB-66	CE-EB-67	CE-EB68	CE-EB69	CE-EB-70	CE-EB-71	CE-EB-72	CE-EB-73
Lab Sample ID	Class GA	460-45763-8	460-50440-10	460-54827-18	460-65324-10	460-74555-7	460-84728-8	180-43555-7	180-54291-1	180-781649
Date Sampled	Ambient	10/11/2012	02/06/2013	04/24/2013	10/22/2013	04/17/2014	10/17/2014	4/28/2015	4/28/2016	5/23/2018
Dilution	Standards	1	1	1	1	5	1	1	1	1
Polychlorinated Biphenyls - µg/L	µg/L									
PCB-1016	NS	0.0026 U	0.0024 U	0.0024 U	0.0026 U	0.013 U	0.0024	0.0025 U	0.0038 U	0.0048 U
PCB-1221	NS	0.0025 U	0.0023 U	0.0024 U	0.0026 U	0.013 U	0.0023	0.0041 U	0.0060 U	0.0058 U
PCB-1232	NS	0.003 U	0.0028 U	0.0028 U	0.003 U	0.015 U	0.0028	0.0039 U	0.0062 U	0.0053 U
PCB-1242	NS	0.0019 U	0.0018 U	0.0018 U	0.0019 U	0.0097 U	0.0018	0.0019 U	0.0035 U	0.0092 U
PCB-1248	NS	0.0023 U	0.0021 U	0.0022 U	0.0023 U	0.012 U	0.0021	0.0027 U	0.017	0.0030 U
PCB-1254	NS	0.0023 U	0.0022 U	0.0022 U	0.0024 U	0.012 U	0.0022	0.0030 U	0.0046 U	0.0096 U
PCB-1260	NS	0.0014 U	0.0013 U	0.0013 U	0.0014 U	0.0071 U	0.0013	0.0017 U	0.0030 U	0.0040 U
Total PCBs	0.09	ND	ND	ND	ND	ND	ND	ND	0.017	ND

Dissolved - µg/L

Dilution		NA	NA	NA	NA	NA	NA	NA	NA	NA
PCB-1016	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCB-1221	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCB-1232	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCB-1242	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCB-1248	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCB-1254	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCB-1260	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Dissolved PCBs	0.09	NA	NA	NA	NA	NA	NA	NA	NA	NA

Flushing Industrial Park, Parcels 1 - 3
Table 3 Notes
Post-Remediation Groundwater Sample Laboratory Analytical Results

1. NYSDEC Class GA Ambient Standard = New York State Department of Environmental Conservation Technical and Operational Guidance Series (1.1.1): Class GA Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations.
   "NS" indicates no standard established for that parameter
   Exceedences of NYSDEC Class GA Standard are identified with bold.

2. Samples identified as MW-28R5A were blind duplicates of sample CE-MW-28R5.

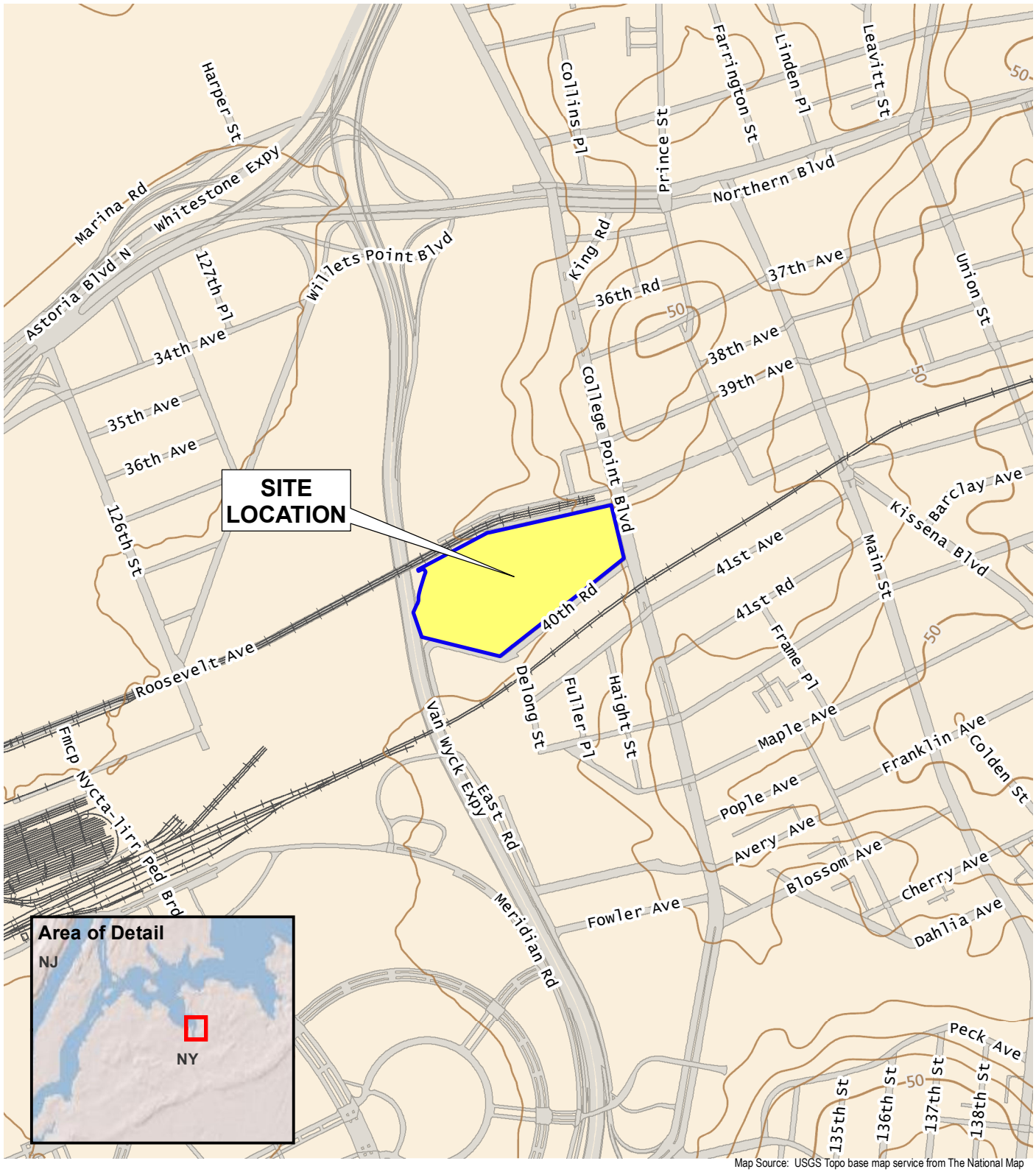
3. Laboratory Flags:
   * LCS, LCD, MD: Batch QC exceeds the upper or lower control limits.
   †= Dilution rates for this sample vary.
   B = (Organic flag) Compound was found in the blank and sample.
   H = Alternate peak selection.
   J = Result is an estimated value below the reporting limit or a tentatively identified compound (TIC).
   M = Manually integrated compound
   N = MS, MSD: Spike recovery exceeds the upper or lower control limits.
   p=The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
   U = Analyte not detected above the MDL.
   UJ = The compound was analyzed for, but not detected. The sample quantitation limit is an estimated quantity due to variance from quality control limits.
   JN = Analyte is presumptively present at an approximated quantity.
   ^ = ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA or MRL standard: Instrument related QC exceeds control limits.

4. Laboratory analytical methods included the following:
   PCBs using EPA Method 8082

5. Abbreviations:
   µg/L = micrograms per liter, or parts per billion
   EB = equipment blank (quality control sample)
   IDL = Instrument Detection Limit
   LCD = Laboratory Control Standard Duplicate

   LCS = Laboratory Control Standard with reagent grade water or a matrix free from the analyte of interest
   MDL = Method Detection Limit
   MS = Matrix Spike
   MSD = Matrix Spike Duplicate
   ND = Not detected
   RL = Reporting limit
   NA = Not Analyzed

FIGURES



Map Source: USGS Topo base map service from The National Map

©2018 AKRF M:\AKRF Project Files\30141 - Muss Flushing\GIS & Graphics\Hazmat\30141 Fig 1 site loc map.mxd 8/27/2018 11:00:20 AM jszalus

AKRF
440 Park Avenue South, New York, NY 10016

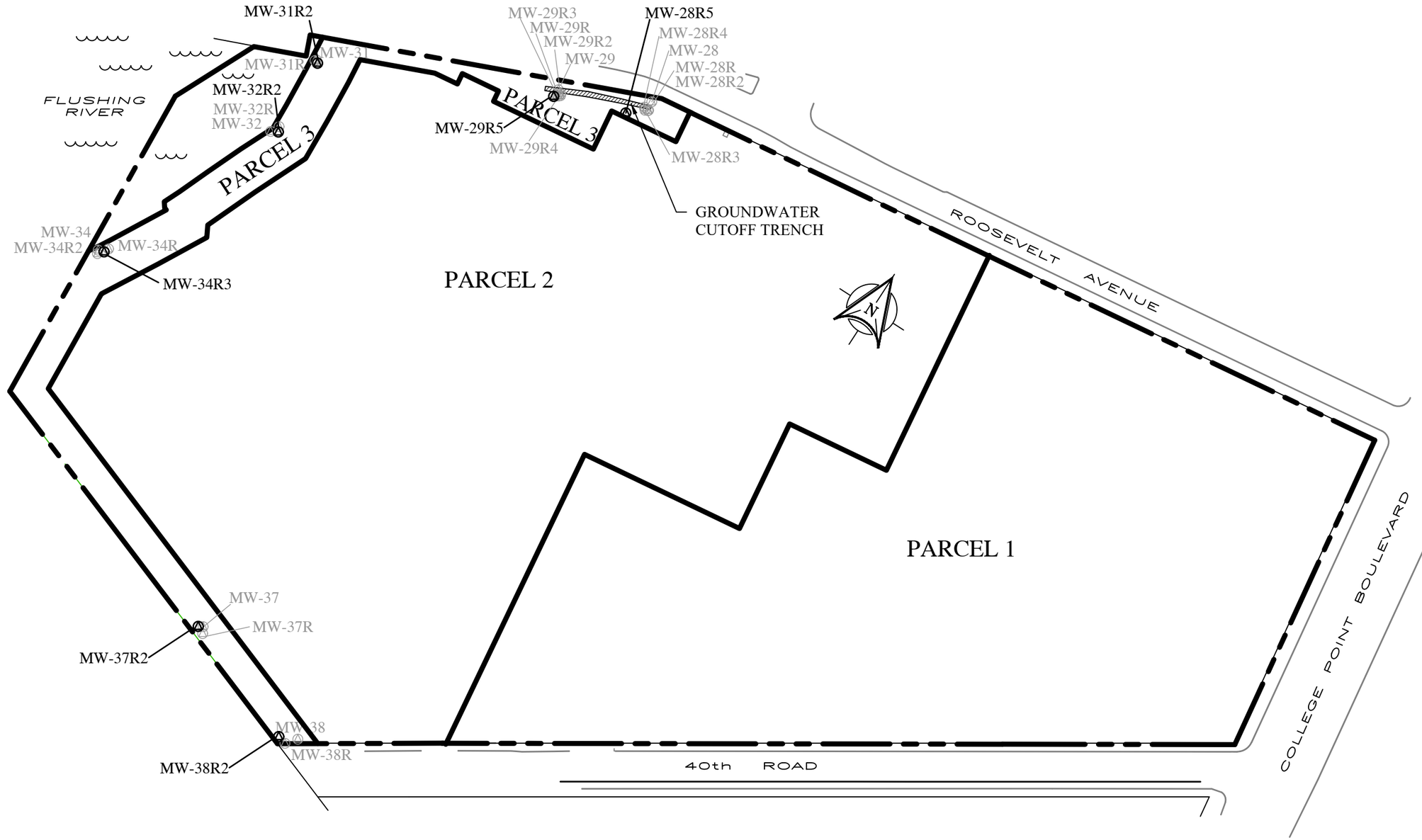
Flushing Industrial Park, Parcels 1-3
Flushing, New York

PROJECT SITE LOCATION

DATE
8/27/2018

PROJECT NO.
30141

FIGURE
1



LEGEND:

- PARCEL BOUNDARY
- PROPERTY BOUNDARY
- MW-29 FORMER MONITORING WELL
- MW-28R5 REPLACEMENT MONITORING WELL

AKRF
440 Park Avenue South, New York, NY 10016

Flushing Industrial Park, Parcels 1-3
Flushing, New York

POST-REMEDIATION MONITORING WELL PLAN

DATE
8/27/18

PROJECT NO.
30141

FIGURE
2

©2018 AKRF, Inc M:\AKRF Project Files\30141 - Muss Flushing\OU-2&3&4 Plans-Reports\Quarterly Monitoring Reports\2018-5 GW Sampling\Figures\30141 Fig 2 Post-Rem MonWell Plan_Rev. June 2018.dwg last save: jszalus 8/30/2018 1:52 PM

MW-33	Feb-08	Aug-08	Mar-09	May-09	Aug-09	Oct-11	Feb-12	Apr-12	Jul-12	Oct-12	Feb-13	Apr-13	Oct-13	Apr-14	Oct-14	Apr-15	Apr-16	May-18
Total PCBs	6	ND	ND	0.29	0.37	5.9	5.5	ND	3.7	9	1.4	ND	3	ND	190	17	12.7	1.7
Dissolved PCBs	ND	ND	ND	ND	ND	ND	3.8	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA

MW-31	Feb-08	May-08	Aug-08	Mar-09	Oct-11	Feb-12	Apr-12	Jul-12	Oct-12	Feb-13	Apr-13	Oct-13	Apr-14	Oct-14	Apr-15	Apr-16	May-18
Total PCBs	0.5	ND	0.26	ND	0.46	ND	ND	ND	.07	ND	.78	ND	ND	0.13	NA	NA	NA
Dissolved PCBs	ND	ND	ND	ND	0.63	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	.0046	0.28

MW-29	Feb-08	May-08	Aug-08	Mar-09	May-09	Aug-09	Oct-11	Feb-12	Apr-12	Jul-12	Oct-12	Feb-13	Apr-13	Oct-13	Apr-14	Oct-14	Apr-15	Apr-16	May-18
Total PCBs	2.69	2.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.13	0.25	.019	.014
Dissolved PCBs	ND	ND	0.51	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA

MW-34	Feb-08	May-08	Aug-08	Nov-08	Mar-09	May-09	Aug-09	Oct-11	Feb-12	Apr-12	Jul-12	Oct-12	Feb-13	Apr-13	Oct-13	Apr-14	Oct-14	Apr-15	Apr-16	May-18
Total PCBs	ND	ND	ND	ND	0.31	ND	ND	ND	ND	ND	ND	.01	13	ND	ND	0.074	0.15	0.015	022	.04
Dissolved PCBs	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA

MW-35	Feb-08	May-08	Aug-08	Nov-08	Mar-09	May-09	Aug-09	Oct-11	Feb-12	Apr-12	Jul-12	Oct-12	Feb-13	Apr-13	Oct-13	Apr-14	Oct-14	Apr-15	Apr-16	May-18
Total PCBs	ND	ND	ND	ND	ND	ND	ND	.81	ND	ND	.25	ND	.55	ND	0.35	0.11	NA	NA	0.10	
Dissolved PCBs	ND	ND	ND	ND	ND	ND	ND	0.34	.99	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA

MW-38	Feb-08	May-08	Aug-08	Nov-08	Mar-09	May-09	Aug-09	Oct-11	Feb-12	Apr-12	Jul-12	Oct-12	Feb-13	Apr-13	Oct-13	Apr-14	Oct-14	Apr-15	Apr-16	Jun-18
Total PCBs	0.16	ND	ND	ND	ND	ND	ND	1.5	ND	ND	ND	.72	ND	ND	.79	ND	.044	0.81	.0071	.012
Dissolved PCBs	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA

MW-31R2
MW-31R
MW-31
MW-32R2
MW-32R
MW-32
MW-29R3
MW-29R
MW-29R2
MW-29
MW-28R5
MW-28R4
MW-28
MW-28R
MW-28R2
MW-29R5
MW-29R4
MW-28R3
FLUSHING RIVER
PARCEL 3
PARCEL 3
GROUNDWATER CUTOFF TRENCH
ROOSEVELT AVENUE
MW-34
MW-34R2
MW-34R
MW-34R3
PARCEL 2
PARCEL 1
MW-37
MW-37R
MW-37R2
MW-38R2
MW-38
MW-38R
COLLEGE POINT BOULEVARD
40th ROAD

MW-43R3 REPLACEMENT MONITORING WELL
MW-43 FORMER MONITORING WELL
PARCEL BOUNDARY
PROPERTY BOUNDARY
INTERLOCKING SHEETING
PCB TOTAL AND DISSOLVED PCB CONCENTRATIONS SHOWN IN MICROGRAMS PER LITER (MG/L OR PPB)
ND NOT DETECTED
NA NOT ANALYZED

0' 25' 50' 100'
SCALE IN FEET

AKRF
440 Park Avenue South, New York, NY 10016

FLUSHING INDUSTRIAL PARK
Flushing, New York

PCB CONCENTRATIONS IN GROUNDWATER

DATE
3/13/2019

PROJECT NO.
30141

FIGURE
3

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APPENDIX A

WELL SAMPLING AND INSTALLATION LOGS

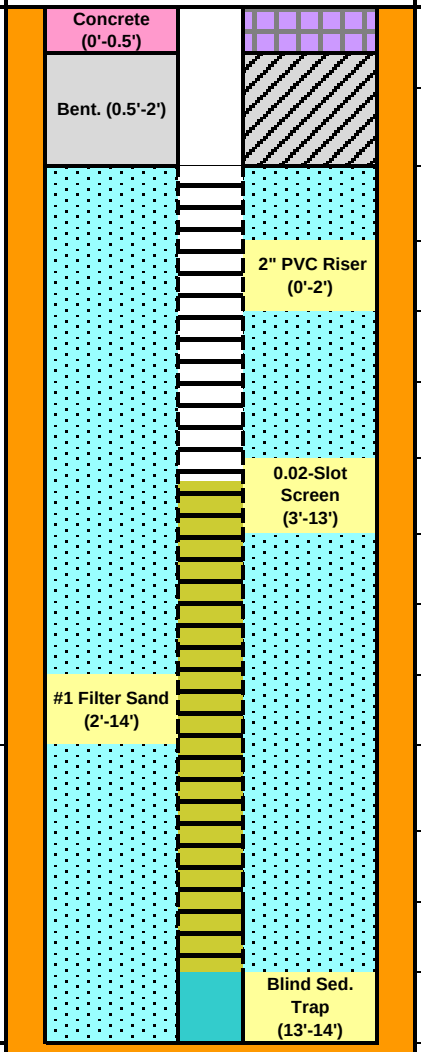
Soil Boring and Well Installation Log

Well No.			
MW- 31R2	**Job Number:** 30141	**Client:** C.E. Flushing, LLC	**Sheet 1 of 1**
	Location: C. E. Flushing Site, Queens, NY	**Weather: 65°F overcast**	**Drilling**
	Drilling Method: Direct Push Probe	**Driller: EES**	**Start** / **Finish**
	Depth to Water: 6.35 ft	**Logged By: CP**	**Date** 5/15/2018 / **Date** 5/15/2018
			Time 11:20 / **Time** 12:10

Surface Conditions: WOODCHIPS

Odors	Depth	Soil Description	PID
No Odors	1–10	No soil logging or screening per NYSDEC on 5/14/2018	
	11–14		
	15–18	End of boring at approximately 14 feet below grade.	

Well Construction



Notes:

2" diameter PVC well with sediment trap from 13' to 14' below ground surface; 0.02 slotted PVC well screen from 13' to 3' below ground surface; riser flush with grade; flush-mounted locking gate box at grade.

Former asphalt site cover encountered at approximately 1'-2' below current grade.

Well annulus backfilled with sand from 14' to 2', bentonite seal from 2' to 0.5'; concrete to match surface grade.

ND- None Detected / PID-Photo Ionization Detector/ VOCs- Volatile Organic Compounds/ OVM - Organic Vapor Meter

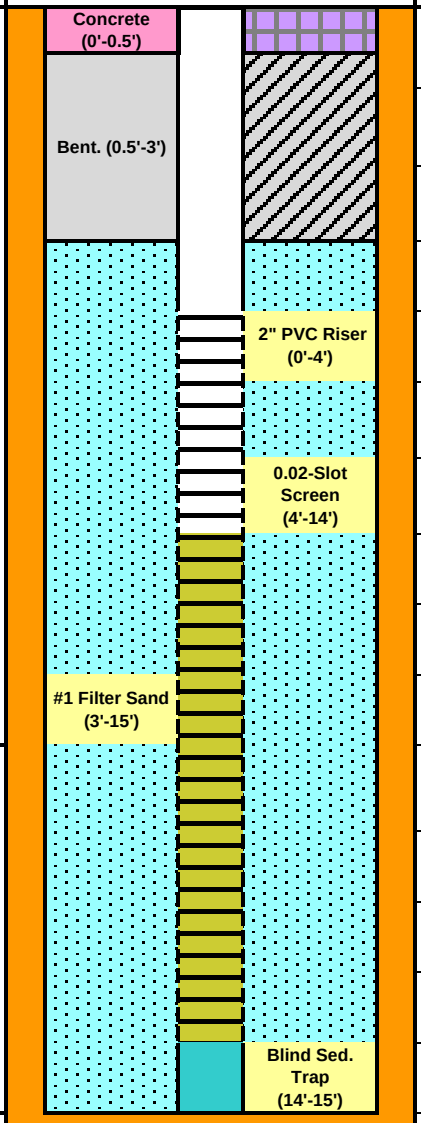
Soil Boring and Well Installation Log

Well No.			
MW- 32R2	**Job Number:** 30141	**Client:** C.E. Flushing, LLC	**Sheet 1 of 1**
	Location: C. E. Flushing Site, Queens, NY	**Weather: 65°F overcast**	**Drilling**
	Drilling Method: Direct Push Probe	**Driller: EES**	**Start** / **Finish**
	Depth to Water: 7.05 ft	**Logged By: CP**	**Date** 5/15/2018 / **Date** 5/15/2018
			Time 10:10 / **Time** 10:20

Surface Conditions: WOODCHIPS

Odors	Depth	Soil Description	PID
No Odors	1–10	No soil logging or screening per NYSDEC on 5/14/2018	
	11–15		
	16–18	End of boring at approximately 15 feet below grade.	

Well Construction



Notes:

2" diameter PVC well with sediment trap from 14' to 15' below ground surface; 0.02 slotted PVC well screen from 14' to 4' below ground surface; riser flush with grade; flush-mounted locking gate box at grade.

Former asphalt site cover encountered at approximately 1'-2' below current grade.

Well annulus backfilled with sand from 15' to 3', bentonite seal from 3' to 0.5'; concrete to match surface grade.

ND- None Detected / PID-Photo Ionization Detector/ VOCs- Volatile Organic Compounds/ OVM - Organic Vapor Meter

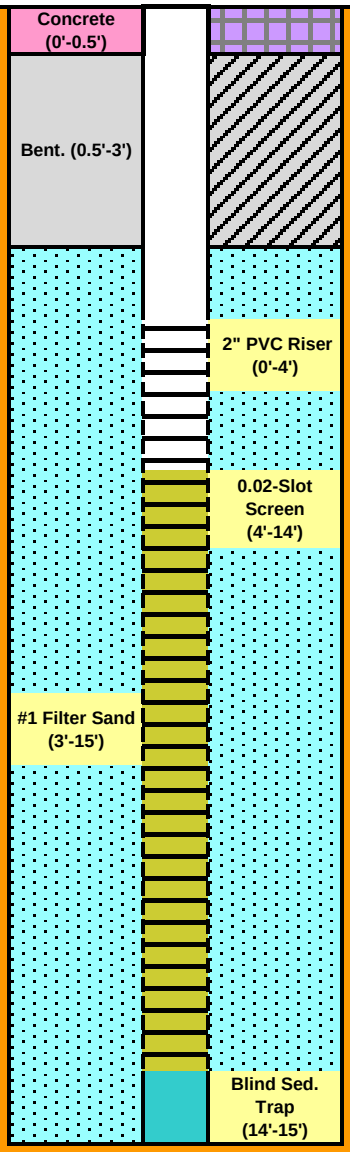
Soil Boring and Well Installation Log

Well No.			
MW- 34R3	**Job Number:** 30141	**Client:** C.E. Flushing, LLC	**Sheet 1 of 1**
	Location: C. E. Flushing Site, Queens, NY	**Weather: 65°F overcast**	**Drilling**
	Drilling Method: Direct Push Probe	**Driller: EES**	**Start** / **Finish**
	Depth to Water: 5.95 ft	**Logged By: CP**	**Date** 5/15/2018 / **Date** 5/15/2018
			Time 8:35 / **Time** 8:50

Surface Conditions: WOODCHIPS

Odors	Depth	Soil Description	PID
No Odors	1–10	No soil logging or screening per NYSDEC on 5/14/2018	
	11–15		
	16–18	End of boring at approximately 15 feet below grade.	

Well Construction



Notes:

2" diameter PVC well with sediment trap from 15' to 14' below ground surface; 0.02 slotted PVC well screen from 14' to 4' below ground surface; riser flush with grade; flush-mounted locking gate box at grade.

Former asphalt site cover encountered at approximately 1'-2' below current grade.

Well annulus backfilled with sand from 15' to 3', bentonite seal from 3' to 0.5'; concrete to match surface grade.

ND- None Detected / PID-Photo Ionization Detector/ VOCs- Volatile Organic Compounds/ OVM - Organic Vapor Meter

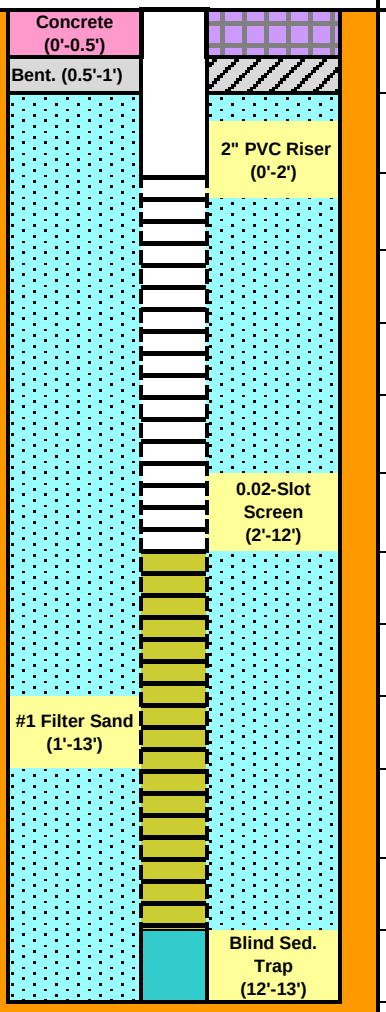
Soil Boring and Well Installation Log

Well No.			
MW- 37R2	**Job Number:** 30141	**Client:** C.E. Flushing, LLC	**Sheet 1 of 1**
	Location: C. E. Flushing Site, Queens, NY	**Weather: 60°F overcast then clear**	**Drilling**
	Drilling Method: Direct Push Probe	**Driller: EES**	**Start** / **Finish**
	Depth to Water: 6.92 ft	**Logged By: CP**	**Date** 5/14/2018 / **Date** 5/14/2018
			Time 13:15 / **Time** 13:55

Surface Conditions: WOODCHIPS

Odors	Depth	Soil Description	PID	Depth
No Odors	1–10	No soil logging or screening per NYSDEC on 5/14/2018		1–10
	11–13			11–13
	14–18	End of boring at approximately 13 feet below grade.		14–18

Well Construction



Notes:

2" diameter PVC well with sediment trap from 13' to 12' below ground surface; 0.02 slotted PVC well screen from 12' to 2' below ground surface; riser flush with grade; flush-mounted locking gate box at grade.

Former asphalt site cover encountered at approximately 1'-2' below current grade.

Well annulus backfilled with sand from 13' to 1', bentonite seal from 1' to 0.5'; concrete to match surface grade.

ND- None Detected / PID-Photo Ionization Detector/ VOCs- Volatile Organic Compounds/ OVM - Organic Vapor Meter

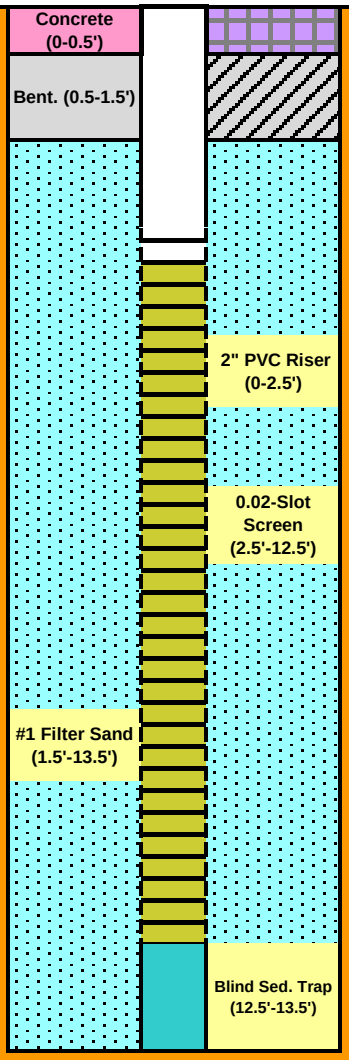
Soil Boring and Well Installation Log

Well No.			
MW- 38R2	**Job Number:** 30141	**Client:** C.E. Flushing, LLC	**Sheet 1 of 1**
	Location: C. E. Flushing Site, Queens, NY	**Weather: 60°F overcast then clear**	**Drilling**
	Drilling Method: Direct Push Probe	**Driller: EES**	**Start** / **Finish**
	Depth to Water: 3.16 ft	**Logged By: CP**	**Date** 5/14/2018 / **Date** 5/14/2018
			Time 11:40 / **Time** 13:00

Surface Conditions: WOODCHIPS

Odors	Depth	Soil Description	PID	Depth
No Odors	1–10	No soil logging or screening per NYSDEC on 5/14/2018		1–10
	11–13			11–13
	14–18	End of boring at approximately 13.5 feet below grade.		14–18

Well Construction



Notes:

2" diameter PVC well with sediment trap from 13.5' to 12.5' below ground surface; 0.02 slotted PVC well screen from 12.5' to 2.5' below ground surface; riser flush with grade; flush-mounted locking gate box at grade.

Former asphalt site cover encountered at approximately 1'-2' below current grade.

Well annulus backfilled with sand from 13.5' to 1.5', bentonite seal from 1.5' to 0.5'; concrete to match surface grade.

ND- None Detected / PID-Photo Ionization Detector/ VOCs- Volatile Organic Compounds/ OVM - Organic Vapor Meter

AKRF — Well Development Log

Job No: 30141	**Client:** CE Flushing LLC	**Well No:** MW-28RS
Project Location:	**Sampled By:** N/A	
Date: 5/16/19	**Time:** —	

Total Depth:	23.47 ft.	**Well Diameter:**	2 in.	**Well Volume (V) = Br 2 h (cf)**
Depth to Water:	13.53 ft.	**Well Volume*:**	1.63 gal.	B = pi (approx. 3.14) r = monitoring well radius in ft. h = height of the water column in ft. cf = conversion factor = 7.48 gal/ft³
Water Column (WC):	10.06 ft.			

Time	Pump Rate	Turbidity (NTU)	Temperature (°C)	Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Comments (note color or odors)
0813		will start field parameter readings once water is visibly cleared						strong sulfuric/rotten eggs smell light petroleum like sheen
0829		265	12.80	6.70	14.28	7.47	-10	
0832		121	12.22	6.88	14.19	7.43	-68	
0837		61.0	12.20	7.04	13.71	7.45	-78	
0842		133	13.12	7.32	13.03	7.43	-100	
0847		Flow decreased. EE adjusts whalerabit, turbidity visible in water.						
0900		130	12.82	7.18	14.15	7.48	-57	
0905		54.11 turbid (>1000)						
0920		166	14.54	4.34	12.83	6.67	-76	
0925		38.3	12.00	7.24	14.39	7.51	-107	
0930		37.8	11.41	7.35	14.18	7.35	-130	
0935		30.0	11.27	7.36	13.88	7.44	-136	

Total Volume Purged: 54 gallons

For Surge Method: Purge until water quality parameters are stabile (within 10%) for three successive readings, and turbidity is less than 50 NTU for three successive readings.

Method: Purge a minimum of three well volumes and water appears clear in the bailer. For Bailer

AKRF

Well Development Log

Job No: 30141	**Client:** CE Flushing LLC		**Well No:** MW-29RS
Project Location: Flushing Industrial Park	**Sampled By:** ~~EP~~ CP		
Date: 5/16/16	**Time:** —		
Total Depth: 13.53 ft.	**Well Diameter:** 2 in.	**Well Volume (V) = Br 2 h (cf)**	
Depth to Water: 2.50 ft.	**Well Volume*:** ~~1.30~~ 1.79 gal.	B = pi (approx. 3.14) Br^2h (cf)	
Water Column (WC): 11.03 ft.		r = monitoring well radius in ft.	
		h = height of the water column in ft.	
		cf = conversion factor = 7.48 gal/ft³	

Time	Pump Rate	Turbidity (NTU)	Temperature (°C)	Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Comments (note color or odors)
0715	will record field parameters once turb. visibly cleared.	~~visibly cleared.~~	~~14.50~~ CP 14			~~7.90~~ CP 7.95		silty dark brown, ~~strong~~ sulfuric/rotten egg smell petlike sheen
0740		220	14.50	4.25	24.86	7.90	95	
0745		118	14.47	2.98	13.83	~~7.~~ 12	81	
~~0750~~		5.0	12.45	4.97	14.29	7.47	-24	
0755		1.7	12.72	5.03	13.54	7.47	3	
0800		0.2	12.23	4.97	13.91	7.50	-36	

Total Volume Purged: 40 gallons

For Surge Method: Purge until water quality parameters are stabile (within 10%) for three successive readings, and turbidity is less than 50 NTU for three successive readings.

Method: Purge a minimum of three well volumes and water appears clear in the bailer. For Bailer

AKRF

Well Development Log

Job No: 30141	**Client:** CE Flushing LLC		**Well No:** MW-31R2
Project Location: Flushing Industrial Park	**Sampled By:** NA		
Date: 5/16/18	**Time:** —		
Total Depth: 14.05 ft.	**Well Diameter:** 2 in.	**Well Volume (V) = Br 2 h (cf)**	
Depth to Water: 5.77 ft.	**Well Volume*:** 1.34 gal.	B = pi (approx. 3.14)	
Water Column (WC): 8.28 ft.		r = monitoring well radius in ft.	
		h = height of the water column in ft.	
		cf = conversion factor = 7.48 gal/ft³	

Time	Pump Rate	Turbidity (NTU)	Temperature (°C)	Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Comments (note color or odors)
0950		~~103~~	Will wait to take field parameters when water visibly clear					Petroleum like sheen and odor
1045		103	12.43	4.28	13.72	9.27	-97	No measurable product
1050		113	12.25	4.26	13.99	9.26	-122	
1055		179	12.11	4.29	13.76	9.23	-123	
~~*~~Note: Discoloration started to come back purged 40 gallons, stopping development								

Total Volume Purged: 40 gallons

For Surge Method: Purge until water quality parameters are stabile (within 10%) for three successive readings, and turbidity is less than 50 NTU for three successive readings.

For Bailer Method: Purge a minimum of three well volumes and water appears clear in the bailer.

~~**~~ Note: Dredging of Flushing River ~20 ft away. 0.1 sheen noted seeping out of soil at river water line.

AKRF

Well Development Log

Job No: 30141	**Client:** CE Flushing LLC		**Well No:** MW-32R2
Project Location: Flushing Industrial Park	**Sampled By:** N/A		
Date: 5/16/18	**Time:** —		
Total Depth: 14.95 ft.	**Well Diameter:** 2 in.		**Well Volume (V) = Br 2 h (cf)**
Depth to Water: 6.49 ft.	**Well Volume*:** 1.37 gal.		B = pi (approx. 3.14) r = monitoring well radius in ft. h = height of the water column in ft. cf = conversion factor = 7.48 gal/ft³
Water Column (WC): 8.46 ft.			

Time	Pump Rate	Turbidity (NTU)	Temperature (°C)	Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Comments (note color or odors)
1110		Will record field parameters once water visibly clears						pet. like sheen + faint pet. like odor
1155		117	14.69	7.40	14.89	8.32	-95	
1200		Turbidity increased heavily, water unclear.						
1222		270	14.14	7.62	12.32	8.35	-122	
1227		337	13.86	7.55	12.31	8.37	-127	
1232		Turbidity increasing, water discolored w/ silt. CP stops development.						

Total Volume Purged: 35 gallons

For Surge Method: Purge until water quality parameters are stabile (within 10%) for three successive readings, and turbidity is less than 50 NTU for three successive readings.

Method: Purge a minimum of three well volumes and water appears clear in the bailer.

For Bailer

AKRF

Well Development Log

Job No: 30141	**Client:** CE Flushing LLC		**Well No:** MW-34R3
Project Location: Flushing Industrial Park	**Sampled By:** NIA		
Date: 5/16/18	**Time:** —		
Total Depth: 14.93 ft.	**Well Diameter:** 2 in.		**Well Volume (V) = Br 2 h (cf)**
Depth to Water: 5.82 ft.	**Well Volume*:** 1.48 gal.		B = pi (approx. 3.14) r = monitoring well radius in ft. h = height of the water column in ft. cf = conversion factor = 7.48 gal/ft³
Water Column (WC): 9.11 ft.			

Time	Pump Rate	Turbidity (NTU)	Temperature (°C)	Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Comments (note color or odors)
1240		Will take field parameter readings when water is visibly clear						Light pet sheen, sulfuric odor
1322		52.1	13.27	23.8	13.14	8.70	-55	
1327		32.5	12.45	25.4	12.43	8.72	-147~~60~~	
1332		25.6	12.99	25.3	11.34	8.73	-141~~60~~	
1337		18.7	12.78	26.0	12.18	8.72	-149	

Total Volume Purged: 30 gallons

For Surge Method: Purge until water quality parameters are stabile (within 10%) for three successive readings, and turbidity is less than 50 NTU for three successive readings.

Method: Purge a minimum of three well volumes and water appears clear in the bailer. For Bailer

AKRF — Well Development Log

Job No: 30141	**Client:** C.E. Flushing LLC		**Well No:** MW-37R2
Project Location: Flushing Industrial Park	**Sampled By:** NA J		
Date: 5/16/18 J	**Time:** —		
Total Depth: 12.93 ft.	**Well Diameter:** 2 in.		**Well Volume (V) = Br 2 h (cf)**
Depth to Water: 7.18 ft.	**Well Volume*:** 0.937 gal.		B = pi (approx. 3.14)
Water Column (WC): 5.75 ft.			r = monitoring well radius in ft.
			h = height of the water column in ft.
			cf = conversion factor = 7.48 gal/ft³

Time	Pump Rate	Turbidity (NTU)	Temperature (°C)	Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Comments (note color or odors)
1347		Will start fi	ed parameter	readings once	turbidity visi	ly cleared		Sulfuric odor, no sheen
1350		164	16.97	~~12~~ 7.8	8.67	7.97	-60	
1355		142	15.93	47.6	8.31	7.72	-29	
1400		112	15.32	20.6	10.93	7.36	-26	
1405		62.2	15.33	46.6	9.79	7.72	12	
1410		40.4	15.38	46.0	9.84	7.58	20	
1415		38.8	15.38	45.7	9.85	7.53	34	
1420		31.3	15.42	44.6	9.85	7.23	54	

Total Volume Purged: 30 gallons

For Surge Method: Purge until water quality parameters are stabile (within 10%) for three successive readings, and turbidity is less than 50 NTU for three successive readings.

Method: Purge a minimum of three well volumes and water appears clear in the bailer. For Bailer

AKRF — Well Development Log

Job No: 30141	**Client:** C.E. Flushing LLC	**Well No:** MW-38R2
Project Location: Flushing Industrial Park	**Sampled By:** ~~CFC~~ NIA	
Date: 5/16/18	**Time:**	

Total Depth:	17.53 ft.	**Well Diameter:**	2 in.
Depth to Water:	4.94 ft.	**Well Volume*:**	1.40 gal.
Water Column (WC):	8.59 ~~13.53~~ ft.		

Well Volume (V) = Br 2 h (cf)

B = pi (approx. 3.14)
r = monitoring well radius in ft.
h = height of the water column in ft.
cf = conversion factor = 7.48 gal/ft³

Time	Pump Rate	Turbidity (NTU)	Temperature (°C)	Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Comments (note color or odors)
1425		105	16.33	26.5	10.49	7.67	110	No odor or sheen
1430		64.6	16.30	26.4	10.44	7.58	105	
1435		61.3	16.15	25.7	10.43	7.70	101	
1440		64.8	16.33	25.0	10.49	7.57	104	
1445		49.8	16.32	26.7	10.44	7.61	124	
1450		46.9	16.42	27.1	10.45	7.55	111	
1455		41.7	16.30	24.3	10.46	7.58	121	

Total Volume Purged: 20 gallons

For Surge Method: Purge until water quality parameters are stabile (within 10%) for three successive readings, and turbidity is less than 50 NTU for three successive readings.

For Bailer Method: Purge a minimum of three well volumes and water appears clear in the bailer.

AKRF — Well Sampling and Inspection Log

Job No: 30141	**Client:** C.E. Flushing, LLC	**Well No:** MW-28R5
Project Location: Flushing Industrial Park, Parcels 1-3	**Sampled By:** CP	
PID at well cap opening: ND	**Sampling Time:** 18:26	
Damage to well? ND	**Date:** 5/23/18	
Total Depth: 13.60 ft. below top of casing	**Water Column (WC):** feet	
Depth to Water: 3.80 ft. below top of casing	**Well Volume*:** gallons	* 0.163 gal/ft for 2" wells
Depth to Product: ND ft. below top of casing	**Volume Purged:** 2 gallons	
Depth to top of screen: ft. below top of casing	**Well Diam.:** 2 inches	Target maximum flow rate is 100 ml/min
Depth to bottom of screen: ft. below top of casing	**Purging Device (pump type):** 1.75" QED Sample Pro	
Approx. Pump Intake: 9.0 ft. below top of casing		

Time	Depth to Water (Ft.)	Purge Rate (ml/min)	Temp (°C)	Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Tubidity (NTU)	Comments (problems, odor, sheen)
1720	3.80	100	15.17	4.84	32.52	7.79	-171	315	No odor or sheen
1725			19.60	4.35	7.79	7.69	-202	270	
1730			21.30	4.30	7.67	6.23	-216	203	
1735			14.99	5.99	7.45	7.72	-225	170	
1740			14.13	6.82	7.28	7.74	-227	127	
1745			12.50	8.26	5.82	7.61	-232	41.8	
1750	3.80		12.03	8.57	4.47	7.60	-235	14.3	
1755			11.82	8.65	3.48	7.59	-241	3.1	
1800			11.66	8.67	2.74	7.61	-246	0.0	
1805			11.65	8.71	2.28	7.62	-250	0.0	
1810			11.58	8.75	1.93	7.62	-254	0.0	
1815			11.52	8.81	1.50	7.62	-259	0.0	
1820	3.80		11.46	8.86	1.35	7.62	-260	0.0	
1825			11.49	8.87	1.20	7.62	-262	0.0	
1825	Sampling								
1850	final reading		11.50	8.51	0.00	7.63	-262	0.00	
	Stabilization Criteria:			+/- 3 mS/cm	+/- 0.3 mg/L	+/- 0.1 pH units	+/- 10 mV	<50 NTU	If water quality parameters do not stabilize and/or turbidity is greater than 50 NTU within two hours, discontinue purging and collect sample.

Notes: GW samples analyzed for total PCBs (EPA method 8082). Purgewater stored in drum #1.
Duplicate (MW-28R5A) collected @ 18:35

AKRF

Well Sampling and Inspection Log

Job No: 30141	**Client:** C.E. Flushing, LLC	**Well No:** MW-29R5	
Project Location: Flushing Industrial Park, Parcels 1-3	**Sampled By:** CP		
PID at well cap opening: ND	**Sampling Time:** 16:31		
Damage to well? ND	**Date:** 5/23/18		
Total Depth: 13.61 ft. below top of casing	**Water Column (WC):** feet		
Depth to Water: 2.65 ft. below top of casing	**Well Volume*:** gallons	* 0.163 gal/ft for 2" wells	
Depth to Product: ND ft. below top of casing	**Volume Purged:** 1.5 gallons		
Depth to top of screen: ft. below top of casing	**Well Diam.:** 2 inches	Target maximum flow rate is 100 ml/min	
Depth to bottom of screen: ft. below top of casing	**Purging Device (pump type):**		
Approx. Pump Intake: 8 ft. below top of casing			

Time	Depth to Water (Ft.)	Purge Rate (ml/min)	Temp (°C)	Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Tubidity (NTU)	Comments (problems, odor, sheen)
1535	2.65	100	19.31	4.75	10.03	8.20	-129	52.4	No odor or sheen
1540			16.86	5.89	5.99	7.91	-165	28.4	
1545			17.18	5.97	4.74	7.89	-177	9.7	
1550			16.99	5.95	4.21	7.90	-184	2.8	
1555			16.86	6.01	3.57	7.90	-195	0.0	
1600			16.94	6.03	3.26	7.89	-200	0.0	
1605			16.93	6.05	3.07	7.90	-205	0.0	
1610			17.68	5.94	2.31	7.90	-217	0.0	
1615			17.65	5.96	2.08	7.90	-223	0.00	
1620			17.92	5.92	1.82	7.90	-227	0.00	
1625			17.73	5.95	1.65	7.90	-230	0.0	
1630			17.84	5.95	1.53	7.90	-231	0.0	
1631	Sampling								
1640	Final Reading		17.71	5.98	1.43	7.90	-229	0.0	
Stabilization Criteria:				+/- 3 mS/cm	+/- 0.3 mg/L	+/- 0.1 pH units	+/- 10 mV	<50 NTU	If water quality parameters do not stabilize and/or turbidity is greater than 50 NTU within two hours, discontinue purging and collect sample.

Notes: Groundwater samples analyzed for total PCBs (EPA method 8082). Purge water stored in drum #1.

AKRF — Well Sampling and Inspection Log

Job No:	30141	**Client:**	C.E. Flushing, LLC
Project Location:	Flushing Industrial Park, Parcels 1-3	**Sampled By:**	CP
PID at well cap opening:	ND	**Sampling Time:**	1426
Damage to well?	ND	**Date:**	5/23/18
Total Depth:	13.70 ft. below top of casing	**Water Column (WC):**	feet
Depth to Water:	5.90 ft. below top of casing	**Well Volume*:**	gallons
Depth to Product:	ND ft. below top of casing	**Volume Purged:**	2 gallons
Depth to top of screen:	ft. below top of casing	**Well Diam.:**	2 inches
Depth to bottom of screen:	ft. below top of casing	**Purging Device (pump type):**	1.75" QED Sample Pro
Approx. Pump Intake:	9 ft. below top of casing		

Well No: MW-31R2

* 0.163 gal/ft for 2" wells

Target maximum flow rate is 100 ml/min

Time	Depth to Water (Ft.)	Purge Rate (ml/min)	Temp (°C)	Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Tubidity (NTU)	Comments (problems, odor, sheen)
1320	6.02	100	13.70	3.11	7.66	8.83	-86	586	Organics odor, faint sheen
1325			12.98	6.28	1.97	9.23	-142	207	
1330			14.58	6.62	0.00	9.26	-185	207	
1335			14.53	6.51	0.00	9.29	-193	179	
1340			14.57	6.49	0.00	9.31	-203	12.5	
1345	6.02		15.31	6.43	0.00	9.32	-211	111	
1350			15.44	6.25	0.00	9.36	-222	119	
1355			15.34	6.16	0.00	9.38	-226	95.8	
1400			15.21	6.36	0.00	9.38	-231	71.8	
1405			14.72	6.40	0.00	9.38	-238	62.5	
1410			14.61	6.38	0.00	9.40	-244	55.4	
1415			14.47	6.36	0.00	9.41	-249	48.7	
1420			14.34	6.33	0.00	9.41	-253	44.2	
1425			14.10	6.27	0.00	9.43	-257	46.0	
1426	sampling								
1433	final reading		18.03	5.75	0.00	9.42	-188	63.2	
	Stabilization Criteria:			+/- 3 mS/cm	+/- 0.3 mg/L	+/- 0.1 pH units	+/- 10 mV	<50 NTU	If water quality parameters do not stabilize and/or turbidity is greater than 50 NTU within two hours, discontinue purging and collect sample.

Notes: Groundwater samples analyzed for total PCBs. Purgewater stored in drum #1

AKRF — Well Sampling and Inspection Log

Job No: 30141	**Client:** C.E. Flushing, LLC	**Well No:** MW-32R2
Project Location: Flushing Industrial Park, Parcels 1-3	**Sampled By:** CP	
PID at well cap opening:	**Sampling Time:** 17:16	
Damage to well?	**Date:** 5/22/18	
Total Depth: 15.00 ft. below top of casing	**Water Column (WC):** feet	
Depth to Water: 6.64 ft. below top of casing	**Well Volume*:** gallons	* 0.163 gal/ft for 2" wells
Depth to Product: ND ft. below top of casing	**Volume Purged:** 1.5 gallons	
Depth to top of screen: ft. below top of casing	**Well Diam.:** 2 inches	Target maximum flow rate is 100 ml/min
Depth to bottom of screen: ft. below top of casing	**Purging Device (pump type):**	
Approx. Pump Intake: ft. below top of casing		

Time	Depth to Water (Ft.)	Purge Rate (ml/min)	Temp (°C)	Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Tubidity (NTU)	Comments (problems, odor, sheen)
1630	6.64	100	12.39	7.70	6.23	7.86	-139	300	No odor, faint sheen
1635			11.78	7.47	0.40	7.99	-207	232	
1640			11.69	7.04	0.00	8.03	-214	186	
1645			11.62	6.75	0.00	8.08	-226	143	
1650			11.59	6.61	0.00	8.11	-229	120	
1655			11.58	6.42	0.00	8.13	-229	83.2	
1700			11.54	6.24	0.00	8.15	-222	58.1	
1705			11.55	6.17	0.00	8.15	-227	47.1	
1710			11.55	6.04	0.00	8.16	-227	37.1	
1715			11.55	6.96	0.00	8.16	-226	29.9	
~~1720~~ 1716	sampling								
Stabilization Criteria:				+/- 3 mS/cm	+/- 0.3 mg/L	+/- 0.1 pH units	+/- 10 mV	<50 NTU	If water quality parameters do not stabilize and/or turbidity is greater than 50 NTU within two hours, discontinue purging and collect sample.

Notes: GW samples analyzed for total PCBs (EPA Method 8082), Purge water stored in drum #6.

AKRF — Well Sampling and Inspection Log

Job No:	30141	**Client:**	C.E. Flushing, LLC
Project Location:	Flushing Industrial Park, Parcels 1-3	**Sampled By:**	CP
PID at well cap opening:	NT	**Sampling Time:**	1506
Damage to well?	ND	**Date:**	5/22/18
Total Depth:	14.97 ft. below top of casing	**Water Column (WC):**	feet
Depth to Water:	6.00 ft. below top of casing	**Well Volume*:**	gallons
Depth to Product:	ND ft. below top of casing	**Volume Purged:**	2.5 gallons
Depth to top of screen:	ft. below top of casing	**Well Diam.:**	2 inches
Depth to bottom of screen:	ft. below top of casing	**Purging Device (pump type):**	1.75" QED Sample Pro
Approx. Pump Intake:	10.5 ft. below top of casing		

Well No: MW-34R3

* 0.163 gal/ft for 2" wells

Target maximum flow rate is 100 ml/min

Time	Depth to Water (Ft.)	Purge Rate (ml/min)	Temp (°C)	Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Tubidity (NTU)	Comments (problems, odor, sheen)
13:45	6.00	100	18.80	13.1	0.44	8.62	-109	936	No odor or sheen
13:50			17.47	14.5	0.00	8.65	-210	439	
13:55			16.68	15.1	0.00	8.66	-220	279	
1400			16.61	15.2	0.00	8.66	-221	246	
1405			16.42	15.4	0.00	8.65	-220	224	
1410			16.06	15.6	0.00	8.65	-219	180	
1415			15.66	15.9	0.00	8.64	-216	152	
1420			15.61	15.9	0.00	8.64	-213	122	
1425			15.53	15.9	0.00	8.65	-215	104	
1430			15.30	16.0	0.00	8.66	-218	72.1	
1435			15.32	16.0	0.00	8.65	-218	68.9	
1440			15.10	16.0	0.00	8.66	-219	65.8	
1445			14.98	16.0	0.00	8.65	-218	67.1	
1450			14.76	16.1	0.00	8.66	-218	62.9	
1455			14.52	16.3	0.00	8.66	-219	44.4	
Stabilization Criteria:				**+/- 3 mS/cm**	**+/- 0.3 mg/L**	**+/- 0.1 pH units**	**+/- 10 mV**	**<50 NTU**	If water quality parameters do not stabilize and/or turbidity is greater than 50 NTU within two hours, discontinue purging and collect sample.

Notes: Groundwater samples analyzed for total PCBs (~~8082~~) EPA Method 8082). Purge water transferred to drum#

AKRF — Well Sampling and Inspection Log

Job No:	30141	**Client:** C.E. Flushing, LLC	**Well No:** MW-34R3
Project Location:	Flushing Industrial Park, Parcels 1-3	**Sampled By:** CF	
PID at well cap opening:		**Sampling Time:** 1506	
Damage to well?		**Date:**	
Total Depth:	ft. below top of casing	**Water Column (WC):** feet	
Depth to Water:	ft. below top of casing	**Well Volume*:** gallons	* 0.163 gal/ft for 2" wells
Depth to Product:	ft. below top of casing	**Volume Purged:** 2.5 gallons	
Depth to top of screen:	ft. below top of casing	**Well Diam.:** 2 inches	Target maximum flow rate is 100 ml/min
Depth to bottom of screen:	ft. below top of casing	**Purging Device (pump type):**	
Approx. Pump Intake:	ft. below top of casing		

Time	Depth to Water (Ft.)	Purge Rate (ml/min)	Temp (°C)	Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Tubidity (NTU)	Comments (problems, odor, sheen)
1500			14.22	16.4	0.00	8.66	-220	46.8	
1505			14.29	16.3	0.00	8.66	-220	44.2	
1506	Sampling								
Stabilization Criteria:				**+/- 3 mS/cm**	**+/- 0.3 mg/L**	**+/- 0.1 pH units**	**+/- 10 mV**	**<50 NTU**	If water quality parameters do not stabilize and/or turbidity is greater than 50 NTU within two hours, discontinue purging and collect sample.

Notes: FR Pail

Well Sampling and Inspection Log

AKRF

Job No:	30141	**Client:**	C.E. Flushing, LLC
Project Location:	Flushing Industrial Park, Parcels 1-3	**Sampled By:**	CP
PID at well cap opening:	ND	**Sampling Time:**	11:16
Damage to well?	ND	**Date:**	5/22/18
Total Depth:	12.80 ft. below top of casing	**Water Column (WC):**	feet
Depth to Water:	7.08 ft. below top of casing	**Well Volume*:**	gallons
Depth to Product:	ND ft. below top of casing	**Volume Purged:**	3.5 gallons
Depth to top of screen:	ft. below top of casing	**Well Diam.:**	2 inches
Depth to bottom of screen:	ft. below top of casing	**Purging Device (pump type):**	1.75" QED sample Pro
Approx. Pump Intake:	10 ft. below top of casing		

Well No: MW-37R2

* 0.163 gal/ft for 2" wells

Target maximum flow rate is 100 ml/min

Time	Depth to Water (Ft.)	Purge Rate (ml/min)	Temp (°C)	Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Tubidity (NTU)	Comments (problems, odor, sheen)
0915	7.11	100	16.31	30.3	1.55	7.88	-59	864	No odor or sheen
0920			15.26	29.9	0.07	7.98	-131	480	
0925			15.06	29.1	0.00	8.15	-158	234	
0930			15.02	28.6	0.00	8.24	-172	149	
0935			15.23	28.3	0.00	8.30	-184	145	
0940			15.19	28.2	0.00	8.34	-192	114	
0945			15.39	28.0	0.00	8.37	-200	125	
0950	7.20		15.42	28.0	0.00	8.39	-202	140	
0955			15.51	28.0	0.00	8.41	-206	125	
1000			15.68	28.0	0.00	8.42	-208	127	
1005			15.69	28.0	0.00	8.44	-213	183	
1010			15.52	28.1	0.00	8.46	-216	188	
1015			14.98	28.0	0.00	8.48	-217	133	
1020			14.86	27.9	0.00	8.48	-218	102	
1025			14.83	27.6	0.00	8.49	-222	81.3	
Stabilization Criteria:				+/- 3 mS/cm	+/- 0.3 mg/L	+/- 0.1 pH units	+/- 10 mV	<50 NTU	If water quality parameters do not stabilize and/or turbidity is greater than 50 NTU within two hours, discontinue purging and collect sample.

Notes: Groundwater samples analyzed for total PCBs (EPA Method 8082) Purge water transferred to drum # 6
MS/MSD collected @ this well @ 11:16

AKRF

Well Sampling and Inspection Log

Job No:	30141	**Client:**	C.E. Flushing, LLC
Project Location:	Flushing Industrial Park, Parcels 1-3	**Sampled By:**	CP
PID at well cap opening:		**Sampling Time:**	11:16
Damage to well?		**Date:**	5/22/18
Total Depth:	ft. below top of casing	**Water Column (WC):**	feet
Depth to Water:	ft. below top of casing	**Well Volume*:**	gallons
Depth to Product:	ft. below top of casing	**Volume Purged:**	3.5 gallons
Depth to top of screen:	ft. below top of casing	**Well Diam.:**	2 inches
Depth to bottom of screen:	ft. below top of casing	**Purging Device (pump type):**	1.75" QED Sample Pro
Approx. Pump Intake:	ft. below top of casing		

Well No: MW-37R2

* 0.163 gal/ft for 2" wells

Target maximum flow rate is 100 ml/min

Time	Depth to Water (Ft.)	Purge Rate (ml/min)	Temp (°C)	Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Tubidity (NTU)	Comments (problems, odor, sheen)
1030	7.20	100	14.79	27.5	0.00	8.49	-223	94.5	No odor or sheen
1035			14.74	27.4	0.00	8.50	-225	80.8	
1040			15.07	27.5	0.00	8.52	-231	118	
1045			15.04	27.5	0.00	8.52	-232	112	
1050			15.08	27.6	0.00	8.53	-233	118	
1055	7.20		14.99	27.6	0.00	8.54	-235	92.5	
1100			15.14	27.6	0.00	8.54	-238	91.7	
1105			15.06	27.7	0.00	8.55	-241	98.2	
1110			15.12	27.6	0.00	8.56	-243	73.8	
1115	7.20		15.24	27.6	0.00	8.56	-244	91.8	
1116	Sampling								
1145	7.20	100	15.63	26.8	0.00	8.54	-257	67.0	
Stabilization Criteria:				+/- 3 mS/cm	+/- 0.3 mg/L	+/- 0.1 pH units	+/- 10 mV	<50 NTU	If water quality parameters do not stabilize and/or turbidity is greater than 50 NTU within two hours, discontinue purging and collect sample.

Notes:

See page 1.

AKRF Well Sampling Log

Job No: 3941	**Client:** CE Flushing	**Well No:** MW-38R2	
Project Location: Flushing Industrial Park	**Sampled By:** CP		
Date: 06/04/18	**Sampling Time:** 14:51		
LEL at surface: —			
PID at surface: 1.0			
Total Depth: 13.45 ~~NTOP~~ ft. below top of casing	**Water Column (WC):** 8.56 feet	*= 0.163 * WC for 2" wells	
Depth to Water: 4.89 ft. below top of casing	**Well Volume*:** 1.39 gallons	*= 0.653 * WC for 4" wells	
Depth to Product: ND ft. below top of casing	**Volume Purged:** gallons	*= 1.469 * WC for 6" wells	
Depth to top of screen: ft. below top of casing	**Well Diam.:** 2 inches	Target maximum flow rate is 100 ml/min	
Depth to bottom of screen: ft. below top of casing	**Purging Device (pump type):** 1.75" QED Sample Pro		
Approx. Pump Intake: 9 ft. below top of casing			

Time	Depth to Water (Ft.)	Purge Rate (ml/min)	Temp (°C)	Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments (problems, odor, sheen)
1315	4.89	100	17.58	28.2	3.76	6.71	-114	959	Organic/sulfuric odors; no sheen
1320			16.05	26.9	1.89	6.96	-145	1000	
1325			18.04	21.9	2.29	7.15	-140	839	
1330			17.79	19.8	~~2.50~~ 1.93	7.06	~~-137~~	460	
1335			18.52	19.7	2.17	7.08	-129	365	
1340			19.13	19.9	1.94	7.09	-122	308	
1345	4.89	100	19.91	21.1	2.99	~~7.11~~	-109	259	
1350			20.27	23.1	5.10	~~7.18~~	-104	225	
~~1355~~			20.44	23.3	4.38	7.19	-104	217	
1400			20.95	23.8	4.51	7.17	-102	209	
1405			21.23	23.7	3.81	7.16	-98	206	
1410			21.48	24.0	4.58	7.18	-98	197	
1415			18.53	20.6	8.71	7.27	-77	179	
1420			18.66	20.7	8.65	7.25	-52	183	
1425	4.89	100	18.78	21.4	8.52	7.24	-33	166	
Stabilization Criteria:				**+/- 3 mS/cm**	**+/- 0.3 mg/L**	**+/- 0.1 pH units**	**+/- 10 mV**	**<50 NTU**	If water quality parameters do not stabilize and/or turbidity is greater than 50 NTU within two hours, discontinue purging and collect sample.

Groundwater samples analyzed for:

Total PCBs

AKRF — Well Sampling Log

Job No: 30141	**Client:** CE Flushing	**Well No:** MW-38R2
Project Location: Flushing Industrial Park	**Sampled By:** CPJ	
Date: 06/14/18	**Sampling Time:** 1451	
LEL at surface:		
PID at surface: ~~0~~ CP 1.0		
Total Depth: 13.45 ft. below top of casing	**Water Column (WC):** 8.56 feet	*= 0.163 * WC for 2" wells
Depth to Water: 4.89 ft. below top of casing	**Well Volume*:** 1.39 gallons	*= 0.653 * WC for 4" wells
Depth to Product: ND ft. below top of casing	**Volume Purged:** 2.5 gallons	*= 1.469 * WC for 6" wells
Depth to top of screen: ft. below top of casing	**Well Diam.:** 2 inches	Target maximum flow rate is 100 ml/min
Depth to bottom of screen: ft. below top of casing	**Purging Device (pump type):** 1.75" QED Sample Pro	
Approx. Pump Intake: 9 ft. below top of casing		

Time	Depth to Water (Ft.)	Purge Rate (ml/min)	Temp (°C)	Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Comments (problems, odor, sheen)
1430	4.89	100	18.81	21.8	8.36	7.25	-16	89.9	Organic/sulfuric odors
1435			18.55	22.0	8.26	7.24	-2	49.8	No sheen
1440			18.44	22.2	8.21	7.19	13	28.1	
1445			18.40	22.4	8.06	7.15	18	22.0	
1450	4.89	100	18.52	23.0	8.02	7.13	22	21.9	
1451	Sampling								
1456	Final Reading		20.04	23.0	4.69	7.14	27	44.0	
Stabilization Criteria:				+/- 3 mS/cm	+/- 0.3 mg/L	+/- 0.1 pH units	+/- 10 mV	<50 NTU	If water quality parameters do not stabilize and/or turbidity is greater than 50 NTU within two hours, discontinue purging and collect sample.

Groundwater samples analyzed for:

~~VOC~~ Total PCBs

Purge water stored in drum #6.

APPENDIX B

LABORATORY ANALYTICAL REPORT

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 180-78164-1

Job Description: 30141-0116 CE Flushing Industrial Park

For:
AKRF Inc
440 Park Avenue South
7th Floor
New York, NY 10016

Attention: Ms. Neoma Chefalo

Approved for release.
Thomas A Chupela
Project Management Assistant I
5/31/2018 3:27 PM

Designee for
Melissa Haas, Project Manager I
777 New Durham Road, Edison, NJ, 08817
(203)944-1310
melissa.haas@testamericainc.com
05/31/2018

The test results in this report meet all NELAP requirements unless specified within the case narrative. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. All questions regarding this report should be directed to the TestAmerica Edison Project Manager.

TestAmerica Edison Certifications and Approvals: Connecticut: CTDOH #PH-0200, New Jersey: NJDEP (NELAP) #12028, New York: NYDOH (NELAP) #11452, NYDOH (ELAP) #11452, Pennsylvania: PADEP (NELAP) 68-00522 and Rhode Island: RIDOH LAO00132

Job Number: 180-78164-1

Job Description: 30141-0116 CE Flushing Industrial Park

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed within the body of this report. Release of the data contained in this sample data package and in the electronic data deliverable has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Approved for release.
Thomas A Chupela
Project Management Assistant I
5/31/2018 3:27 PM

Designee for
Melissa Haas

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CASE NARRATIVE

Client: AKRF Inc

Project: 30141-0116 CE Flushing Industrial Park

Report Number: 180-78164-1

This case narrative is in the form of an exception report, where only the anomalies related to this report, method specific performance and/or QA/QC issues are discussed. If there are no issues to report, this narrative will include a statement that documents that there are no relevant data issues.

It should be noted that samples with elevated Reporting Limits (RLs) as a result of a dilution may not be able to satisfy customer reporting limits in some cases. Such increases in the RLs are unavoidable but acceptable consequence of sample dilution that enables quantification of target analytes or interferences which exceed the calibration range of the instrument.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 5/26/2018 9:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 3.6º C, 3.6º C and 4.5º C.

Receipt Exceptions

The following sample was received with less than 2 days remaining on the holding time As such, the laboratory had insufficient time remaining to perform the analysis within holding time: CE-MW-38R2_052118 (180-78164-1). The client was notified and instructed the lab to cancel the sample.

Note: All samples which require thermal preservation are considered acceptable if the arrival temperature is within 2C of the required temperature or method specified range. For samples with a specified temperature of 4C, samples with a temperature ranging from just above freezing temperature of water to 6C shall be acceptable. Samples that are hand delivered immediately following collection may not meet these criteria, however they will be deemed acceptable according to NELAC standards, if there is evidence that the chilling process has begun, such as arrival on ice, etc.

POLYCHLORINATED BIPHENYLS (PCBS)

Samples CE-MW-37R2_052218 (180-78164-2), CE-MW-34R3_052218 (180-78164-3), CE-MW-32R2_052218 (180-78164-4), CE-MW-31R2_052318 (180-78164-5), CE-MW-29R5_052318 (180-78164-6), CE-MW-28R5_052318 (180-78164-7), CE-MW-28R5A_052318 (180-78164-8) and CE-EB-73_052318 (180-78164-9) were analyzed for polychlorinated biphenyls (PCBs) in accordance with EPA SW-846 Method 8082A. The samples were prepared on 05/29/2018 and analyzed on 05/30/2018.

No difficulties were encountered during the PCBs analysis.

All quality control parameters were within the acceptance limits.

Sample Summary

Client: AKRF Inc
Project/Site: 30141-0116 CE Flushing Industrial Park

TestAmerica Job ID: 180-78164-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-78164-2	CE-MW-37R2_052218	Water	05/22/18 11:16	05/26/18 09:30
180-78164-3	CE-MW-34R3_052218	Water	05/22/18 15:06	05/26/18 09:30
180-78164-4	CE-MW-32R2_052218	Water	05/22/18 17:16	05/26/18 09:30
180-78164-5	CE-MW-31R2_052318	Water	05/23/18 14:26	05/26/18 09:30
180-78164-6	CE-MW-29R5_052318	Water	05/23/18 16:31	05/26/18 09:30
180-78164-7	CE-MW-28R5_052318	Water	05/23/18 18:26	05/26/18 09:30
180-78164-8	CE-MW-28R5A_052318	Water	05/23/18 18:35	05/26/18 09:30
180-78164-9	CE-EB-73_052318	Water	05/23/18 16:00	05/26/18 09:30

Detection Summary

Client: AKRF Inc
Project/Site: 30141-0116 CE Flushing Industrial Park

TestAmerica Job ID: 180-78164-1

Client Sample ID: CE-MW-37R2_052218 — Lab Sample ID: 180-78164-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arochlor 1260	0.10		0.010	0.0041	ug/L	1		8082A	Total/NA

Client Sample ID: CE-MW-34R3_052218 — Lab Sample ID: 180-78164-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arochlor 1260	0.040		0.010	0.0040	ug/L	1		8082A	Total/NA

Client Sample ID: CE-MW-32R2_052218 — Lab Sample ID: 180-78164-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arochlor 1260	1.7		0.010	0.0041	ug/L	1		8082A	Total/NA

Client Sample ID: CE-MW-31R2_052318 — Lab Sample ID: 180-78164-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arochlor 1260	0.28		0.010	0.0040	ug/L	1		8082A	Total/NA

Client Sample ID: CE-MW-29R5_052318 — Lab Sample ID: 180-78164-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arochlor 1260	0.097		0.010	0.0040	ug/L	1		8082A	Total/NA

Client Sample ID: CE-MW-28R5_052318 — Lab Sample ID: 180-78164-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arochlor 1260	0.038		0.010	0.0040	ug/L	1		8082A	Total/NA

Client Sample ID: CE-MW-28R5A_052318 — Lab Sample ID: 180-78164-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arochlor 1260	0.014		0.010	0.0040	ug/L	1		8082A	Total/NA

Client Sample ID: CE-EB-73_052318 — Lab Sample ID: 180-78164-9

No Detections.

This Detection Summary does not include radiochemical test results.

Method Summary

Client: AKRF Inc
Project/Site: 30141-0116 CE Flushing Industrial Park

TestAmerica Job ID: 180-78164-1

Method	Method Description	Protocol	Laboratory
8082A	Polychlorinated Biphenyls (PCBs) (GC)	SW846	TAL PIT
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL PIT

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Method: 8082A - Polychlorinated Biphenyls (PCBs) (GC)

Client Sample ID: CE-MW-37R2_052218
Lab Sample ID: 180-78164-2
Date Collected: 05/22/18 11:16
Matrix: Water
Date Received: 05/26/18 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arochlor 1016	0.0050	U	0.010	0.0050	ug/L		05/29/18 14:00	05/30/18 11:24	1
Arochlor 1221	0.0060	U	0.010	0.0060	ug/L		05/29/18 14:00	05/30/18 11:24	1
Arochlor 1232	0.0054	U	0.010	0.0054	ug/L		05/29/18 14:00	05/30/18 11:24	1
Arochlor 1242	0.0095	U	0.010	0.0095	ug/L		05/29/18 14:00	05/30/18 11:24	1
Arochlor 1248	0.0031	U	0.010	0.0031	ug/L		05/29/18 14:00	05/30/18 11:24	1
Arochlor 1254	0.0099	U	0.010	0.0099	ug/L		05/29/18 14:00	05/30/18 11:24	1
Arochlor 1260	**0.10**		0.010	0.0041	ug/L		05/29/18 14:00	05/30/18 11:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*79*		*46 - 126*	*05/29/18 14:00*	*05/30/18 11:24*	*1*
DCB Decachlorobiphenyl (Surr)	*77*		*46 - 126*	*05/29/18 14:00*	*05/30/18 11:24*	*1*
Tetrachloro-m-xylene	*62*		*36 - 130*	*05/29/18 14:00*	*05/30/18 11:24*	*1*
Tetrachloro-m-xylene	*58*		*36 - 130*	*05/29/18 14:00*	*05/30/18 11:24*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) (GC)

Client Sample ID: CE-MW-34R3_052218
Lab Sample ID: 180-78164-3
Date Collected: 05/22/18 15:06
Matrix: Water
Date Received: 05/26/18 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arochlor 1016	0.0049	U	0.010	0.0049	ug/L		05/29/18 14:00	05/30/18 12:21	1
Arochlor 1221	0.0058	U	0.010	0.0058	ug/L		05/29/18 14:00	05/30/18 12:21	1
Arochlor 1232	0.0053	U	0.010	0.0053	ug/L		05/29/18 14:00	05/30/18 12:21	1
Arochlor 1242	0.0093	U	0.010	0.0093	ug/L		05/29/18 14:00	05/30/18 12:21	1
Arochlor 1248	0.0031	U	0.010	0.0031	ug/L		05/29/18 14:00	05/30/18 12:21	1
Arochlor 1254	0.0097	U	0.010	0.0097	ug/L		05/29/18 14:00	05/30/18 12:21	1
Arochlor 1260	**0.040**		0.010	0.0040	ug/L		05/29/18 14:00	05/30/18 12:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*86*		*46 - 126*	*05/29/18 14:00*	*05/30/18 12:21*	*1*
DCB Decachlorobiphenyl (Surr)	*81*		*46 - 126*	*05/29/18 14:00*	*05/30/18 12:21*	*1*
Tetrachloro-m-xylene	*70*		*36 - 130*	*05/29/18 14:00*	*05/30/18 12:21*	*1*
Tetrachloro-m-xylene	*65*		*36 - 130*	*05/29/18 14:00*	*05/30/18 12:21*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) (GC)

Client Sample ID: CE-MW-32R2_052218
Lab Sample ID: 180-78164-4
Date Collected: 05/22/18 17:16
Matrix: Water
Date Received: 05/26/18 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arochlor 1016	0.0050	U	0.010	0.0050	ug/L		05/29/18 14:00	05/30/18 12:39	1
Arochlor 1221	0.0060	U	0.010	0.0060	ug/L		05/29/18 14:00	05/30/18 12:39	1
Arochlor 1232	0.0054	U	0.010	0.0054	ug/L		05/29/18 14:00	05/30/18 12:39	1
Arochlor 1242	0.0095	U	0.010	0.0095	ug/L		05/29/18 14:00	05/30/18 12:39	1
Arochlor 1248	0.0031	U	0.010	0.0031	ug/L		05/29/18 14:00	05/30/18 12:39	1
Arochlor 1254	0.0099	U	0.010	0.0099	ug/L		05/29/18 14:00	05/30/18 12:39	1
Arochlor 1260	**1.7**		0.010	0.0041	ug/L		05/29/18 14:00	05/30/18 12:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*92*		*46 - 126*	*05/29/18 14:00*	*05/30/18 12:39*	*1*
DCB Decachlorobiphenyl (Surr)	*87*		*46 - 126*	*05/29/18 14:00*	*05/30/18 12:39*	*1*
Tetrachloro-m-xylene	*70*		*36 - 130*	*05/29/18 14:00*	*05/30/18 12:39*	*1*
Tetrachloro-m-xylene	*72*		*36 - 130*	*05/29/18 14:00*	*05/30/18 12:39*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) (GC)

Client Sample ID: CE-MW-31R2_052318
Lab Sample ID: 180-78164-5
Date Collected: 05/23/18 14:26
Matrix: Water
Date Received: 05/26/18 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arochlor 1016	0.0049	U	0.010	0.0049	ug/L		05/29/18 14:00	05/30/18 12:58	1
Arochlor 1221	0.0058	U	0.010	0.0058	ug/L		05/29/18 14:00	05/30/18 12:58	1
Arochlor 1232	0.0053	U	0.010	0.0053	ug/L		05/29/18 14:00	05/30/18 12:58	1
Arochlor 1242	0.0093	U	0.010	0.0093	ug/L		05/29/18 14:00	05/30/18 12:58	1
Arochlor 1248	0.0031	U	0.010	0.0031	ug/L		05/29/18 14:00	05/30/18 12:58	1
Arochlor 1254	0.0097	U	0.010	0.0097	ug/L		05/29/18 14:00	05/30/18 12:58	1
Arochlor 1260	**0.28**		0.010	0.0040	ug/L		05/29/18 14:00	05/30/18 12:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*86*		*46 - 126*	*05/29/18 14:00*	*05/30/18 12:58*	*1*
DCB Decachlorobiphenyl (Surr)	*83*		*46 - 126*	*05/29/18 14:00*	*05/30/18 12:58*	*1*
Tetrachloro-m-xylene	*64*		*36 - 130*	*05/29/18 14:00*	*05/30/18 12:58*	*1*
Tetrachloro-m-xylene	*66*		*36 - 130*	*05/29/18 14:00*	*05/30/18 12:58*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) (GC)

Client Sample ID: CE-MW-29R5_052318
Lab Sample ID: 180-78164-6
Date Collected: 05/23/18 16:31
Matrix: Water
Date Received: 05/26/18 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arochlor 1016	0.0049	U	0.010	0.0049	ug/L		05/29/18 14:00	05/30/18 13:17	1
Arochlor 1221	0.0059	U	0.010	0.0059	ug/L		05/29/18 14:00	05/30/18 13:17	1
Arochlor 1232	0.0054	U	0.010	0.0054	ug/L		05/29/18 14:00	05/30/18 13:17	1
Arochlor 1242	0.0094	U	0.010	0.0094	ug/L		05/29/18 14:00	05/30/18 13:17	1
Arochlor 1248	0.0031	U	0.010	0.0031	ug/L		05/29/18 14:00	05/30/18 13:17	1
Arochlor 1254	0.0098	U	0.010	0.0098	ug/L		05/29/18 14:00	05/30/18 13:17	1
Arochlor 1260	**0.097**		0.010	0.0040	ug/L		05/29/18 14:00	05/30/18 13:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*88*		*46 - 126*	*05/29/18 14:00*	*05/30/18 13:17*	*1*
DCB Decachlorobiphenyl (Surr)	*85*		*46 - 126*	*05/29/18 14:00*	*05/30/18 13:17*	*1*
Tetrachloro-m-xylene	*69*		*36 - 130*	*05/29/18 14:00*	*05/30/18 13:17*	*1*
Tetrachloro-m-xylene	*69*		*36 - 130*	*05/29/18 14:00*	*05/30/18 13:17*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) (GC)

Client Sample ID: CE-MW-28R5_052318
Lab Sample ID: 180-78164-7
Date Collected: 05/23/18 18:26
Matrix: Water
Date Received: 05/26/18 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arochlor 1016	0.0049	U	0.010	0.0049	ug/L		05/29/18 14:00	05/30/18 13:36	1
Arochlor 1221	0.0058	U	0.010	0.0058	ug/L		05/29/18 14:00	05/30/18 13:36	1
Arochlor 1232	0.0053	U	0.010	0.0053	ug/L		05/29/18 14:00	05/30/18 13:36	1
Arochlor 1242	0.0093	U	0.010	0.0093	ug/L		05/29/18 14:00	05/30/18 13:36	1
Arochlor 1248	0.0031	U	0.010	0.0031	ug/L		05/29/18 14:00	05/30/18 13:36	1
Arochlor 1254	0.0097	U	0.010	0.0097	ug/L		05/29/18 14:00	05/30/18 13:36	1
Arochlor 1260	**0.038**		0.010	0.0040	ug/L		05/29/18 14:00	05/30/18 13:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*88*		*46 - 126*	*05/29/18 14:00*	*05/30/18 13:36*	*1*
DCB Decachlorobiphenyl (Surr)	*85*		*46 - 126*	*05/29/18 14:00*	*05/30/18 13:36*	*1*
Tetrachloro-m-xylene	*70*		*36 - 130*	*05/29/18 14:00*	*05/30/18 13:36*	*1*
Tetrachloro-m-xylene	*70*		*36 - 130*	*05/29/18 14:00*	*05/30/18 13:36*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) (GC)

Client Sample ID: CE-MW-28R5A_052318
Lab Sample ID: 180-78164-8
Date Collected: 05/23/18 18:35
Matrix: Water
Date Received: 05/26/18 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arochlor 1016	0.0049	U	0.010	0.0049	ug/L		05/29/18 14:00	05/30/18 13:54	1
Arochlor 1221	0.0058	U	0.010	0.0058	ug/L		05/29/18 14:00	05/30/18 13:54	1
Arochlor 1232	0.0053	U	0.010	0.0053	ug/L		05/29/18 14:00	05/30/18 13:54	1
Arochlor 1242	0.0093	U	0.010	0.0093	ug/L		05/29/18 14:00	05/30/18 13:54	1
Arochlor 1248	0.0031	U	0.010	0.0031	ug/L		05/29/18 14:00	05/30/18 13:54	1
Arochlor 1254	0.0097	U	0.010	0.0097	ug/L		05/29/18 14:00	05/30/18 13:54	1
Arochlor 1260	**0.014**		0.010	0.0040	ug/L		05/29/18 14:00	05/30/18 13:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*81*		*46 - 126*	*05/29/18 14:00*	*05/30/18 13:54*	*1*
DCB Decachlorobiphenyl (Surr)	*76*		*46 - 126*	*05/29/18 14:00*	*05/30/18 13:54*	*1*
Tetrachloro-m-xylene	*68*		*36 - 130*	*05/29/18 14:00*	*05/30/18 13:54*	*1*
Tetrachloro-m-xylene	*66*		*36 - 130*	*05/29/18 14:00*	*05/30/18 13:54*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) (GC)

Client Sample ID: CE-EB-73_052318
Lab Sample ID: 180-78164-9
Date Collected: 05/23/18 16:00
Matrix: Water
Date Received: 05/26/18 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arochlor 1016	0.0048	U	0.010	0.0048	ug/L		05/29/18 14:00	05/30/18 14:13	1
Arochlor 1221	0.0058	U	0.010	0.0058	ug/L		05/29/18 14:00	05/30/18 14:13	1
Arochlor 1232	0.0053	U	0.010	0.0053	ug/L		05/29/18 14:00	05/30/18 14:13	1
Arochlor 1242	0.0092	U	0.010	0.0092	ug/L		05/29/18 14:00	05/30/18 14:13	1
Arochlor 1248	0.0030	U	0.010	0.0030	ug/L		05/29/18 14:00	05/30/18 14:13	1
Arochlor 1254	0.0096	U	0.010	0.0096	ug/L		05/29/18 14:00	05/30/18 14:13	1
Arochlor 1260	0.0040	U	0.010	0.0040	ug/L		05/29/18 14:00	05/30/18 14:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*87*		*46 - 126*	*05/29/18 14:00*	*05/30/18 14:13*	*1*
DCB Decachlorobiphenyl (Surr)	*82*		*46 - 126*	*05/29/18 14:00*	*05/30/18 14:13*	*1*
Tetrachloro-m-xylene	*75*		*36 - 130*	*05/29/18 14:00*	*05/30/18 14:13*	*1*
Tetrachloro-m-xylene	*73*		*36 - 130*	*05/29/18 14:00*	*05/30/18 14:13*	*1*

Surrogate Summary

Client: AKRF Inc
Project/Site: 30141-0116 CE Flushing Industrial Park

TestAmerica Job ID: 180-78164-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCB1	DCB2	TCX1	TCX2
Lab Sample ID	Client Sample ID	(46-126)	(46-126)	(36-130)	(36-130)
180-78164-2	CE-MW-37R2_052218	79	77	62	58
180-78164-2 MS	CE-MW-37R2_052218	90	86	74	70
180-78164-2 MSD	CE-MW-37R2_052218	85	80	65	63
180-78164-3	CE-MW-34R3_052218	86	81	70	65
180-78164-4	CE-MW-32R2_052218	92	87	70	72
180-78164-5	CE-MW-31R2_052318	86	83	64	66
180-78164-6	CE-MW-29R5_052318	88	85	69	69
180-78164-7	CE-MW-28R5_052318	88	85	70	70
180-78164-8	CE-MW-28R5A_052318	81	76	68	66
180-78164-9	CE-EB-73_052318	87	82	75	73
LCS 180-246110/2-A	Lab Control Sample	84	82	85	84
MB 180-246110/1-A	Method Blank	82	78	76	81

Surrogate Legend

DCB = DCB Decachlorobiphenyl (Surr)
TCX = Tetrachloro-m-xylene

Method: 8082A - Polychlorinated Biphenyls (PCBs) (GC)

Lab Sample ID: MB 180-246110/1-A
Matrix: Water
Analysis Batch: 246135

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 246110

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arochlor 1016	0.0048	U	0.010	0.0048	ug/L		05/29/18 14:00	05/30/18 10:28	1
Arochlor 1221	0.0057	U	0.010	0.0057	ug/L		05/29/18 14:00	05/30/18 10:28	1
Arochlor 1232	0.0052	U	0.010	0.0052	ug/L		05/29/18 14:00	05/30/18 10:28	1
Arochlor 1242	0.0091	U	0.010	0.0091	ug/L		05/29/18 14:00	05/30/18 10:28	1
Arochlor 1248	0.0030	U	0.010	0.0030	ug/L		05/29/18 14:00	05/30/18 10:28	1
Arochlor 1254	0.0095	U	0.010	0.0095	ug/L		05/29/18 14:00	05/30/18 10:28	1
Arochlor 1260	0.0039	U	0.010	0.0039	ug/L		05/29/18 14:00	05/30/18 10:28	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*82*		*46 - 126*	*05/29/18 14:00*	*05/30/18 10:28*	*1*
DCB Decachlorobiphenyl (Surr)	*78*		*46 - 126*	*05/29/18 14:00*	*05/30/18 10:28*	*1*
Tetrachloro-m-xylene	*76*		*36 - 130*	*05/29/18 14:00*	*05/30/18 10:28*	*1*
Tetrachloro-m-xylene	*81*		*36 - 130*	*05/29/18 14:00*	*05/30/18 10:28*	*1*

Lab Sample ID: LCS 180-246110/2-A
Matrix: Water
Analysis Batch: 246135

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 246110

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Arochlor 1016			1.00	0.755		ug/L		76	47 - 111		
Arochlor 1260			1.00	0.785		ug/L		79	42 - 112		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*84*		*46 - 126*
DCB Decachlorobiphenyl (Surr)	*82*		*46 - 126*
Tetrachloro-m-xylene	*85*		*36 - 130*
Tetrachloro-m-xylene	*84*		*36 - 130*

Lab Sample ID: 180-78164-2 MS
Matrix: Water
Analysis Batch: 246135

Client Sample ID: CE-MW-37R2_052218
Prep Type: Total/NA
Prep Batch: 246110

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Arochlor 1016	0.0050	U	1.04	0.831		ug/L		80	47 - 111		
Arochlor 1260	0.10		1.04	1.02		ug/L		88	42 - 112		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*90*		*46 - 126*
DCB Decachlorobiphenyl (Surr)	*86*		*46 - 126*
Tetrachloro-m-xylene	*74*		*36 - 130*
Tetrachloro-m-xylene	*70*		*36 - 130*

Method: 8082A - Polychlorinated Biphenyls (PCBs) (GC) (Continued)

Lab Sample ID: 180-78164-2 MSD
Matrix: Water
Analysis Batch: 246135

Client Sample ID: CE-MW-37R2_052218
Prep Type: Total/NA
Prep Batch: 246110

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arochlor 1016	0.0050	U	1.02	0.747		ug/L		73	47 - 111	11	25
Arochlor 1260	0.10		1.02	0.880		ug/L		76	42 - 112	14	26

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*85*		*46 - 126*
DCB Decachlorobiphenyl (Surr)	*80*		*46 - 126*
Tetrachloro-m-xylene	*65*		*36 - 130*
Tetrachloro-m-xylene	*63*		*36 - 130*

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
U	Analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

QC Association Summary

Client: AKRF Inc
Project/Site: 30141-0116 CE Flushing Industrial Park

TestAmerica Job ID: 180-78164-1

GC Semi VOA

Prep Batch: 246110

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-78164-2	CE-MW-37R2_052218	Total/NA	Water	3510C	
180-78164-3	CE-MW-34R3_052218	Total/NA	Water	3510C	
180-78164-4	CE-MW-32R2_052218	Total/NA	Water	3510C	
180-78164-5	CE-MW-31R2_052318	Total/NA	Water	3510C	
180-78164-6	CE-MW-29R5_052318	Total/NA	Water	3510C	
180-78164-7	CE-MW-28R5_052318	Total/NA	Water	3510C	
180-78164-8	CE-MW-28R5A_052318	Total/NA	Water	3510C	
180-78164-9	CE-EB-73_052318	Total/NA	Water	3510C	
MB 180-246110/1-A	Method Blank	Total/NA	Water	3510C	
LCS 180-246110/2-A	Lab Control Sample	Total/NA	Water	3510C	
180-78164-2 MS	CE-MW-37R2_052218	Total/NA	Water	3510C	
180-78164-2 MSD	CE-MW-37R2_052218	Total/NA	Water	3510C	

Analysis Batch: 246135

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-78164-2	CE-MW-37R2_052218	Total/NA	Water	8082A	246110
180-78164-3	CE-MW-34R3_052218	Total/NA	Water	8082A	246110
180-78164-4	CE-MW-32R2_052218	Total/NA	Water	8082A	246110
180-78164-5	CE-MW-31R2_052318	Total/NA	Water	8082A	246110
180-78164-6	CE-MW-29R5_052318	Total/NA	Water	8082A	246110
180-78164-7	CE-MW-28R5_052318	Total/NA	Water	8082A	246110
180-78164-8	CE-MW-28R5A_052318	Total/NA	Water	8082A	246110
180-78164-9	CE-EB-73_052318	Total/NA	Water	8082A	246110
MB 180-246110/1-A	Method Blank	Total/NA	Water	8082A	246110
LCS 180-246110/2-A	Lab Control Sample	Total/NA	Water	8082A	246110
180-78164-2 MS	CE-MW-37R2_052218	Total/NA	Water	8082A	246110
180-78164-2 MSD	CE-MW-37R2_052218	Total/NA	Water	8082A	246110

Client Sample ID: CE-MW-37R2_052218
Date Collected: 05/22/18 11:16
Date Received: 05/26/18 09:30

Lab Sample ID: 180-78164-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			960 mL	1.0 mL	246110	05/29/18 14:00	CBY	TAL PIT
Total/NA	Analysis	8082A		1			246135	05/30/18 11:24	JMO	TAL PIT
	Instrument ID: CHGC10									

Client Sample ID: CE-MW-34R3_052218
Date Collected: 05/22/18 15:06
Date Received: 05/26/18 09:30

Lab Sample ID: 180-78164-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			980 mL	1.0 mL	246110	05/29/18 14:00	CBY	TAL PIT
Total/NA	Analysis	8082A		1			246135	05/30/18 12:21	JMO	TAL PIT
	Instrument ID: CHGC10									

Client Sample ID: CE-MW-32R2_052218
Date Collected: 05/22/18 17:16
Date Received: 05/26/18 09:30

Lab Sample ID: 180-78164-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			960 mL	1.0 mL	246110	05/29/18 14:00	CBY	TAL PIT
Total/NA	Analysis	8082A		1			246135	05/30/18 12:39	JMO	TAL PIT
	Instrument ID: CHGC10									

Client Sample ID: CE-MW-31R2_052318
Date Collected: 05/23/18 14:26
Date Received: 05/26/18 09:30

Lab Sample ID: 180-78164-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			980 mL	1.0 mL	246110	05/29/18 14:00	CBY	TAL PIT
Total/NA	Analysis	8082A		1			246135	05/30/18 12:58	JMO	TAL PIT
	Instrument ID: CHGC10									

Client Sample ID: CE-MW-29R5_052318
Date Collected: 05/23/18 16:31
Date Received: 05/26/18 09:30

Lab Sample ID: 180-78164-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			970 mL	1.0 mL	246110	05/29/18 14:00	CBY	TAL PIT
Total/NA	Analysis	8082A		1			246135	05/30/18 13:17	JMO	TAL PIT
	Instrument ID: CHGC10									

Client Sample ID: CE-MW-28R5_052318

Lab Sample ID: 180-78164-7

Date Collected: 05/23/18 18:26

Matrix: Water

Date Received: 05/26/18 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			980 mL	1.0 mL	246110	05/29/18 14:00	CBY	TAL PIT
Total/NA	Analysis	8082A		1			246135	05/30/18 13:36	JMO	TAL PIT
	Instrument ID: CHGC10									

Client Sample ID: CE-MW-28R5A_052318

Lab Sample ID: 180-78164-8

Date Collected: 05/23/18 18:35

Matrix: Water

Date Received: 05/26/18 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			980 mL	1.0 mL	246110	05/29/18 14:00	CBY	TAL PIT
Total/NA	Analysis	8082A		1			246135	05/30/18 13:54	JMO	TAL PIT
	Instrument ID: CHGC10									

Client Sample ID: CE-EB-73_052318

Lab Sample ID: 180-78164-9

Date Collected: 05/23/18 16:00

Matrix: Water

Date Received: 05/26/18 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			990 mL	1.0 mL	246110	05/29/18 14:00	CBY	TAL PIT
Total/NA	Analysis	8082A		1			246135	05/30/18 14:13	JMO	TAL PIT
	Instrument ID: CHGC10									

Laboratory References:

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Analyst References:

Lab: TAL PIT

Batch Type: Prep

CBY = Charles Yushinski

Batch Type: Analysis

JMO = John Oravec

Accreditation/Certification Summary

Client: AKRF Inc
TestAmerica Job ID: 180-78164-1
Project/Site: 30141-0116 CE Flushing Industrial Park

Laboratory: TestAmerica Pittsburgh

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Arkansas DEQ	State Program	6	88-0690	06-27-18
California	State Program	9	2891	04-30-19
Connecticut	State Program	1	PH-0688	09-30-18
Florida	NELAP	4	E871008	06-30-18
Illinois	NELAP	5	200005	06-30-18
Kansas	NELAP	7	E-10350	01-31-19
Louisiana	NELAP	6	04041	06-30-18
Nevada	State Program	9	PA00164	07-31-18
New Hampshire	NELAP	1	2030	04-04-19
New Jersey	NELAP	2	PA005	06-30-18
New York	NELAP	2	11182	03-31-19
North Carolina (WW/SW)	State Program	4	434	12-31-18
Oregon	NELAP Secondary AB	10	PA-2151	01-28-19
Pennsylvania	NELAP	3	02-00416	04-30-19
South Carolina	State Program	4	89014	04-30-18 *
Texas	NELAP	6	T104704528-15-2	03-31-19
US Fish & Wildlife	Federal		LE94312A-1	07-31-18
USDA	Federal		P330-16-00211	06-26-19
Utah	NELAP	8	PA001462015-4	05-31-18
Virginia	NELAP	3	460189	09-14-18
West Virginia DEP	State Program	3	142	01-31-19
Wisconsin	State Program	5	998027800	08-31-18

Laboratory: TestAmerica Edison

The accreditations/certifications listed below are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	11452	04-01-19

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Method 8082A Low Level

Polychlorinated Biphenyls (PCBs) (GC) by Method 8082A Low Level

FORM II
PCBS SURROGATE RECOVERY

Lab Name: TestAmerica Pittsburgh Job No.: 180-78164-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): RTX-CLP1 ID: 0.53(mm) GC Column (2): RTX-CLP2 ID: 0.53(mm)

Client Sample ID	Lab Sample ID	TCX1 #	TCX2 #	DCB1 #	DCB2 #
CE-MW-37R2_052218	180-78164-2	62	58	79	77
CE-MW-34R3_052218	180-78164-3	70	65	86	81
CE-MW-32R2_052218	180-78164-4	70	72	92	87
CE-MW-31R2_052318	180-78164-5	64	66	86	83
CE-MW-29R5_052318	180-78164-6	69	69	88	85
CE-MW-28R5_052318	180-78164-7	70	70	88	85
CE-MW-28R5A_052318	180-78164-8	68	66	81	76
CE-EB-73_052318	180-78164-9	75	73	87	82
	MB 180-246110/1-A	76	81	82	78
	LCS 180-246110/2-A	85	84	84	82
CE-MW-37R2_052218 MS	180-78164-2 MS	74	70	90	86
CE-MW-37R2_052218 MSD	180-78164-2 MSD	65	63	85	80

	QC LIMITS
TCX = Tetrachloro-m-xylene	36-130
DCB = DCB Decachlorobiphenyl (Surr)	46-126

Column to be used to flag recovery values

FORM II 8082A

FORM III
PCBS LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Pittsburgh Job No.: 180-78164-1

SDG No.:

Matrix: Water Level: Low Lab File ID: S0530018.D

Lab ID: LCS 180-246110/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Arochlor 1016	1.00	0.755	76	47-111	
Arochlor 1260	1.00	0.785	79	42-112	

Column to be used to flag recovery and RPD values

FORM III 8082A

FORM III
PCBS MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Pittsburgh Job No.: 180-78164-1

SDG No.:

Matrix: Water Level: Low Lab File ID: S0530021.D

Lab ID: 180-78164-2 MS Client ID: CE-MW-37R2_052218 MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
Arochlor 1016	1.04	0.0050 U	0.831	80	47-111	
Arochlor 1260	1.04	0.10	1.02	88	42-112	

Column to be used to flag recovery and RPD values

FORM III 8082A

FORM III
PCBS MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Pittsburgh Job No.: 180-78164-1

SDG No.:

Matrix: Water Level: Low Lab File ID: S0530022.D

Lab ID: 180-78164-2 MSD Client ID: CE-MW-37R2_052218 MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Arochlor 1016	1.02	0.747	73	11	25	47-111	
Arochlor 1260	1.02	0.880	76	14	26	42-112	

Column to be used to flag recovery and RPD values

FORM III 8082A

FORM IV
PCBS METHOD BLANK SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-78164-1

SDG No.:

Lab Sample ID: MB 180-246110/1-A

Matrix: Water Date Extracted: 05/29/2018 14:00

Lab File ID:(1) S0530017.D Lab File ID:(2) S0530017.D

Date Analyzed:(1) 05/30/2018 10:28 Date Analyzed:(2) 05/30/2018 10:28

Instrument ID:(1) CHGC10 Instrument ID:(2) CHGC10

GC Column:(1) RTX-CLP1 ID: 0.53(mm) GC Column:(2) RTX-CLP2 ID: 0.53(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
	LCS 180-246110/2-A	05/30/2018 10:47	05/30/2018 10:47
CE-MW-37R2_052218	180-78164-2	05/30/2018 11:24	05/30/2018 11:24
CE-MW-37R2_052218 MS	180-78164-2 MS	05/30/2018 11:43	05/30/2018 11:43
CE-MW-37R2_052218 MSD	180-78164-2 MSD	05/30/2018 12:02	05/30/2018 12:02
CE-MW-34R3_052218	180-78164-3	05/30/2018 12:21	05/30/2018 12:21
CE-MW-32R2_052218	180-78164-4	05/30/2018 12:39	05/30/2018 12:39
CE-MW-31R2_052318	180-78164-5	05/30/2018 12:58	05/30/2018 12:58
CE-MW-29R5_052318	180-78164-6	05/30/2018 13:17	05/30/2018 13:17
CE-MW-28R5_052318	180-78164-7	05/30/2018 13:36	05/30/2018 13:36
CE-MW-28R5A_052318	180-78164-8	05/30/2018 13:54	05/30/2018 13:54
CE-EB-73_052318	180-78164-9	05/30/2018 14:13	05/30/2018 14:13

FORM VIII
PCBS INTERNAL STANDARD HEIGHT AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-78164-1

SDG No.:

Sample No.: CCVIS 180-246135/16 Date Analyzed: 05/30/2018 10:09

Instrument ID: CHGC10 GC Column: RTX-CLP1 ID: 0.53(mm)

Lab File ID (Standard): S0530016.D Heated Purge: (Y/N) N

Calibration ID: 37443

		BNB		PCB205			
		HEIGHT #	RT #	HEIGHT #	RT #	HEIGHT #	RT #
12/24 HOUR STD		189521195	2.59	120369380	10.53		
UPPER LIMIT		284281793	2.62	180554070	10.56		
LOWER LIMIT		94760598	2.56	60184690	10.50		
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 180-246110/1-A		219252926	2.59	142808812	10.53		
LCS 180-246110/2-A		210910573	2.59	144569837	10.53		
180-78164-2	CE-MW-37R2_052218	240365330	2.59	160422299	10.53		
180-78164-2 MS	CE-MW-37R2_052218 MS	227398972	2.59	152455913	10.53		
180-78164-2 MSD	CE-MW-37R2_052218 MSD	241241393	2.59	162690460	10.53		
180-78164-3	CE-MW-34R3_052218	226376667	2.59	151464686	10.53		
180-78164-4	CE-MW-32R2_052218	222850097	2.59	152107451	10.54		
180-78164-5	CE-MW-31R2_052318	224064732	2.59	148998585	10.53		
180-78164-6	CE-MW-29R5_052318	219615229	2.59	150414688	10.53		
180-78164-7	CE-MW-28R5_052318	230691565	2.59	155536826	10.53		
180-78164-8	CE-MW-28R5A_052318	252692605	2.59	171194286	10.53		
180-78164-9	CE-EB-73_052318	230558972	2.59	159660113	10.54		

BNB = 1-Bromo-2-nitrobenzene
PCB205 = PCB-205 (IS)

Area Limit = 50%-150% of internal standard area
RT Limit = ± 0.03 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8082A

FORM VIII
PCBS INTERNAL STANDARD HEIGHT AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-78164-1

SDG No.:

Sample No.: CCVIS 180-246135/16 Date Analyzed: 05/30/2018 10:09

Instrument ID: CHGC10 GC Column: RTX-CLP2 ID: 0.53(mm)

Lab File ID (Standard): S0530016.D Heated Purge: (Y/N) N

Calibration ID: 37444

		BNB		PCB205			
		HEIGHT #	RT #	HEIGHT #	RT #	HEIGHT #	RT #
12/24 HOUR STD		120573446	2.84	67944059	12.05		
UPPER LIMIT		180860169	2.87	101916089	12.08		
LOWER LIMIT		60286723	2.81	33972030	12.02		
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 180-246110/1-A		140434624	2.84	79809486	12.05		
LCS 180-246110/2-A		136658734	2.84	78574483	12.05		
180-78164-2	CE-MW-37R2_052218	153842332	2.84	88117038	12.05		
180-78164-2 MS	CE-MW-37R2_052218 MS	144080823	2.84	84570274	12.05		
180-78164-2 MSD	CE-MW-37R2_052218 MSD	154680475	2.84	89751666	12.05		
180-78164-3	CE-MW-34R3_052218	142183596	2.84	83449434	12.05		
180-78164-4	CE-MW-32R2_052218	143841283	2.84	83428960	12.05		
180-78164-5	CE-MW-31R2_052318	144480724	2.84	83777715	12.05		
180-78164-6	CE-MW-29R5_052318	141184024	2.84	82500950	12.05		
180-78164-7	CE-MW-28R5_052318	147841372	2.84	86540974	12.05		
180-78164-8	CE-MW-28R5A_052318	163004280	2.83	95332072	12.05		
180-78164-9	CE-EB-73_052318	149843957	2.84	88201276	12.05		

BNB = 1-Bromo-2-nitrobenzene
PCB205 = PCB-205 (IS)

Area Limit = 50%-150% of internal standard area
RT Limit = ± 0.03 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8082A

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-78164-1

SDG No.:

Client Sample ID: CE-MW-37R2_052218 Lab Sample ID: 180-78164-2

Instrument ID (1): CHGC10 Instrument ID (2): CHGC10

Date Analyzed (1): 05/30/2018 11:24 Date Analyzed (2): 05/30/2018 11:24

GC Column (1): RTX-CLP1 ID: 0.53(mm) GC Column (2): RTX-CLP2 ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
Arochlor 1260	1	1	6.70	6.68	6.72	0.0891	0.10	8.1
		2	7.19	7.17	7.21	0.0945		
		3	7.72	7.70	7.74	0.114		
		4	8.99	8.97	9.01	0.107		
		5	9.47	9.45	9.49	0.102		
	2	1	9.06	9.04	9.08	0.0969	0.094	
		2	9.83	9.81	9.85	0.0957		
		3	10.30	10.28	10.32	0.0713		
		4	10.68	10.66	10.70	0.102		
		5	11.21	11.19	11.23	0.102		

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-78164-1

SDG No.:

Client Sample ID: CE-MW-37R2_052218 MS Lab Sample ID: 180-78164-2 MS

Instrument ID (1): CHGC10 Instrument ID (2): CHGC10

Date Analyzed (1): 05/30/2018 11:43 Date Analyzed (2): 05/30/2018 11:43

GC Column (1): RTX-CLP1 ID: 0.53(mm) GC Column (2): RTX-CLP2 ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
Arochlor 1016	1	1	3.48	3.45	3.49	0.785	0.831	1.3
		2	3.80	3.78	3.82	0.788		
		3	4.28	4.26	4.30	0.886		
		4	4.42	4.40	4.44	0.852		
		5	4.90	4.88	4.92	0.843		
	2	1	5.03	5.01	5.05	0.749	0.820	
		2	5.33	5.31	5.35	0.857		
		3	5.53	5.51	5.55	0.826		
		4	6.27	6.25	6.29	0.814		
		5	6.48	6.46	6.50	0.851		
Arochlor 1260	1	1	6.70	6.68	6.72	0.952	1.02	7.5
		2	7.19	7.17	7.21	1.01		
		3	7.72	7.70	7.74	1.15		
		4	8.99	8.97	9.01	0.967		
		5	9.47	9.45	9.49	1.00		
	2	1	9.07	9.04	9.08	0.986	0.942	
		2	9.83	9.81	9.85	0.894		
		3	10.30	10.28	10.32	0.875		
		4	10.68	10.66	10.70	0.979		
		5	11.22	11.19	11.23	0.978		

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-78164-1

SDG No.:

Client Sample ID: CE-MW-37R2_052218 MSD Lab Sample ID: 180-78164-2 MSD

Instrument ID (1): CHGC10 Instrument ID (2): CHGC10

Date Analyzed (1): 05/30/2018 12:02 Date Analyzed (2): 05/30/2018 12:02

GC Column (1): RTX-CLP1 ID: 0.53(mm) GC Column (2): RTX-CLP2 ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
Arochlor 1016	1	1	3.48	3.45	3.49	0.713	0.747	3.1
		2	3.80	3.78	3.82	0.701		
		3	4.28	4.26	4.30	0.796		
		4	4.42	4.40	4.44	0.766		
		5	4.90	4.88	4.92	0.759		
	2	1	5.03	5.01	5.05	0.673	0.725	
		2	5.33	5.31	5.35	0.754		
		3	5.53	5.51	5.55	0.733		
		4	6.27	6.25	6.29	0.722		
		5	6.49	6.46	6.50	0.742		
Arochlor 1260	1	1	6.70	6.68	6.72	0.840	0.880	9.9
		2	7.19	7.17	7.21	0.878		
		3	7.72	7.70	7.74	0.975		
		4	9.00	8.97	9.01	0.838		
		5	9.47	9.45	9.49	0.872		
	2	1	9.07	9.04	9.08	0.846	0.797	
		2	9.83	9.81	9.85	0.757		
		3	10.30	10.28	10.32	0.747		
		4	10.68	10.66	10.70	0.827		
		5	11.22	11.19	11.23	0.809		

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-78164-1

SDG No.:

Client Sample ID: CE-MW-34R3_052218 Lab Sample ID: 180-78164-3

Instrument ID (1): CHGC10 Instrument ID (2): CHGC10

Date Analyzed (1): 05/30/2018 12:21 Date Analyzed (2): 05/30/2018 12:21

GC Column (1): RTX-CLP1 ID: 0.53(mm) GC Column (2): RTX-CLP2 ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
Arochlor 1260	1	1	6.70	6.68	6.72	0.0426	0.040	17.7
		2	7.19	7.17	7.21	0.0427		
		3	7.72	7.70	7.74	0.0454		
		4	9.00	8.97	9.01	0.0326		
		5	9.47	9.45	9.49	0.0378		
	2	1	9.07	9.04	9.08	0.0423	0.034	
		2	9.83	9.81	9.85	0.0341		
		3	10.30	10.28	10.32	0.0268		
		4	10.68	10.66	10.70	0.0311		
		5	11.21	11.19	11.23	0.0342		

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-78164-1

SDG No.:

Client Sample ID: CE-MW-32R2_052218 Lab Sample ID: 180-78164-4

Instrument ID (1): CHGC10 Instrument ID (2): CHGC10

Date Analyzed (1): 05/30/2018 12:39 Date Analyzed (2): 05/30/2018 12:39

GC Column (1): RTX-CLP1 ID: 0.53(mm) GC Column (2): RTX-CLP2 ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
Arochlor 1260	1	1	6.70	6.68	6.72	1.98	1.7	4.8
		2	7.19	7.17	7.21	2.03		
		3	7.72	7.70	7.74	1.65		
		4	9.00	8.97	9.01	1.45		
		5	9.47	9.45	9.49	1.45		
	2	1	9.07	9.04	9.08	2.12	1.6	
		2	9.83	9.81	9.85	1.85		
		3	10.30	10.28	10.32	1.26		
		4	10.68	10.66	10.70	1.47		
		5	11.22	11.19	11.23	1.47		

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-78164-1

SDG No.:

Client Sample ID: CE-MW-31R2_052318 Lab Sample ID: 180-78164-5

Instrument ID (1): CHGC10 Instrument ID (2): CHGC10

Date Analyzed (1): 05/30/2018 12:58 Date Analyzed (2): 05/30/2018 12:58

GC Column (1): RTX-CLP1 ID: 0.53(mm) GC Column (2): RTX-CLP2 ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
Arochlor 1260	1	1	6.70	6.68	6.72	0.267	0.28	14.9
		2	7.19	7.17	7.21	0.293		
		3	7.72	7.70	7.74	0.323		
		4	9.00	8.97	9.01	0.242		
		5	9.47	9.45	9.49	0.254		
	2	1	9.07	9.04	9.08	0.290	0.24	
		2	9.83	9.81	9.85	0.217		
		3	10.30	10.28	10.32	0.198		
		4	10.68	10.66	10.70	0.240		
		5	11.22	11.19	11.23	0.242		

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-78164-1

SDG No.:

Client Sample ID: CE-MW-29R5_052318 Lab Sample ID: 180-78164-6

Instrument ID (1): CHGC10 Instrument ID (2): CHGC10

Date Analyzed (1): 05/30/2018 13:17 Date Analyzed (2): 05/30/2018 13:17

GC Column (1): RTX-CLP1 ID: 0.53(mm) GC Column (2): RTX-CLP2 ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
Arochlor 1260	1	1	6.70	6.68	6.72	0.121	0.097	32.8
		2	7.19	7.17	7.21	0.117		
		3	7.72	7.70	7.74	0.117		
		4	9.00	8.97	9.01	0.0635		
		5	9.47	9.45	9.49	0.0674		
	2	1	9.07	9.04	9.08	0.109	0.070	
		2	9.83	9.81	9.85	0.0716		
		3	10.30	10.28	10.32	0.0447		
		4	10.68	10.66	10.70	0.0596		
		5	11.21	11.19	11.23	0.0635		

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-78164-1

SDG No.:

Client Sample ID: CE-MW-28R5_052318 Lab Sample ID: 180-78164-7

Instrument ID (1): CHGC10 Instrument ID (2): CHGC10

Date Analyzed (1): 05/30/2018 13:36 Date Analyzed (2): 05/30/2018 13:36

GC Column (1): RTX-CLP1 ID: 0.53(mm) GC Column (2): RTX-CLP2 ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
Arochlor 1260	1	1	6.70	6.68	6.72	0.0372	0.038	9.4
		2	7.19	7.17	7.21	0.0391		
		3	7.72	7.70	7.74	0.0406		
		4	9.00	8.97	9.01	0.0345		
		5	9.47	9.45	9.49	0.0372		
	2	1	9.07	9.04	9.08	0.0389	0.034	
		2	9.83	9.81	9.85	0.0351		
		3	10.30	10.28	10.32	0.0289		
		4	10.68	10.66	10.70	0.0329		
		5	11.21	11.19	11.23	0.0358		

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-78164-1

SDG No.:

Client Sample ID: CE-MW-28R5A_052318 Lab Sample ID: 180-78164-8

Instrument ID (1): CHGC10 Instrument ID (2): CHGC10

Date Analyzed (1): 05/30/2018 13:54 Date Analyzed (2): 05/30/2018 13:54

GC Column (1): RTX-CLP1 ID: 0.53(mm) GC Column (2): RTX-CLP2 ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
Arochlor 1260	1	1	6.70	6.68	6.72	0.0155	0.014	12.0
		2	7.19	7.17	7.21	0.0156		
		3	7.72	7.70	7.74	0.0154		
		4	8.99	8.97	9.01	0.0127		
		5	9.47	9.45	9.49	0.0131		
	2	1	9.06	9.04	9.08	0.0152	0.013	
		2	9.83	9.81	9.85	0.0122		
		3	10.30	10.28	10.32	0.0102		
		4	10.68	10.66	10.70	0.0118		
		5	11.21	11.19	11.23	0.0148		

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-78164-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 180-246110/2-A

Instrument ID (1): CHGC10 Instrument ID (2): CHGC10

Date Analyzed (1): 05/30/2018 10:47 Date Analyzed (2): 05/30/2018 10:47

GC Column (1): RTX-CLP1 ID: 0.53(mm) GC Column (2): RTX-CLP2 ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
Arochlor 1016	1	1	3.48	3.45	3.49	0.718	0.755	6.1
		2	3.80	3.78	3.82	0.724		
		3	4.28	4.26	4.30	0.797		
		4	4.42	4.40	4.44	0.786		
		5	4.91	4.88	4.92	0.751		
	2	1	5.03	5.01	5.05	0.670	0.711	
		2	5.33	5.31	5.35	0.742		
		3	5.53	5.51	5.55	0.714		
		4	6.28	6.25	6.29	0.717		
		5	6.49	6.46	6.50	0.709		
Arochlor 1260	1	1	6.70	6.68	6.72	0.771	0.785	7.8
		2	7.19	7.17	7.21	0.791		
		3	7.72	7.70	7.74	0.864		
		4	9.00	8.97	9.01	0.734		
		5	9.47	9.45	9.49	0.767		
	2	1	9.07	9.04	9.08	0.768	0.726	
		2	9.83	9.81	9.85	0.685		
		3	10.30	10.28	10.32	0.707		
		4	10.68	10.66	10.70	0.745		
		5	11.22	11.19	11.23	0.726		

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-78164-1

SDG No.:

Client Sample ID: CE-MW-37R2_052218 | Lab Sample ID: 180-78164-2

Matrix: Water | Lab File ID: S0530020.D

Analysis Method: 8082A | Date Collected: 05/22/2018 11:16

Extraction Method: 3510C | Date Extracted: 05/29/2018 14:00

Sample wt/vol: 960(mL) | Date Analyzed: 05/30/2018 11:24

Con. Extract Vol.: 1.0(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RTX-CLP1 ID: 0.53(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 246135 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	Arochlor 1016	0.0050	U	0.010	0.0050
11104-28-2	Arochlor 1221	0.0060	U	0.010	0.0060
11141-16-5	Arochlor 1232	0.0054	U	0.010	0.0054
53469-21-9	Arochlor 1242	0.0095	U	0.010	0.0095
12672-29-6	Arochlor 1248	0.0031	U	0.010	0.0031
11097-69-1	Arochlor 1254	0.0099	U	0.010	0.0099
11096-82-5	Arochlor 1260	0.10		0.010	0.0041

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl (Surr)	79		46-126
877-09-8	Tetrachloro-m-xylene	62		36-130

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180530-21981.b\S0530020.D
Lims ID: 180-78164-A-2-A
Client ID: CE-MW-37R2_052218
Sample Type: Client
Inject. Date: 30-May-2018 11:24:52 ALS Bottle#: 20 Worklist Smp#: 20
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0021981-020
Operator ID: Instrument ID: CHGC10

Method: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180530-21981.b\IS PCB_CHGC10DUAL.m
Limit Group: GCS 8082A ICAL with IS
Last Update: 31-May-2018 06:28:26 Calib Date: 01-Mar-2018 20:27:10
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\S0301050.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK028

First Level Reviewer: oravecj Date: 31-May-2018 06:25:58

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng	Flags
* 1 1-Bromo-2-nitrobenzene						
1	2.588	2.585	0.003	240365330H	0.1000	
2	2.835	2.831	0.004	153842332H	0.1000	
$ 2 Tetrachloro-m-xylene						
1	3.173	3.173	0.000	32853060H	0.0124	
2	3.674	3.672	0.002	15850567H	0.0115	
					RPD = 7.04	
3 PCB-1221						U
1		3.307			ND	
1		3.433				
1		3.471				
2		3.207				
2		3.964				
2		4.196				
4 PCB-1232						U
1		3.308			ND	
1		3.795				
1		4.001				
1		4.421				
1		4.900				
2		3.966				
2		4.691				
2		5.028				
2		5.525				
2		5.684				

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng	Flags
6	PCB-1016					U
1		3.474			ND	
1		3.796				
1		4.276				
1		4.420				
1		4.901				
2		5.029				
2		5.327				
2		5.526				
2		6.270				
2		6.481				
5	PCB-1242					U
1		3.475			ND	
1		4.278				
1		4.423				
1		4.903				
1		5.466				
2		4.694				
2		5.329				
2		5.528				
2		6.271				
2		7.021				
7	PCB-1248					U
1		4.254			ND	
1		4.629				
1		4.901				
1		5.465				
1		5.784				
2		5.824				
2		6.269				
2		6.482				
2		6.934				
2		7.453				
8	PCB-1254					U
1		5.397			ND	
1		5.771				
1		6.389				
1		6.860				
1		7.184				
2		7.357				
2		8.303				
2		9.058				
2		9.361				
2		9.679				

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng	Flags
10 PCB-1262						U
1		6.694			ND	
1		7.184				
1		7.950				
1		8.422				
1		9.531				
2		8.678				
2		9.826				
2		10.297				
2		10.678				
2		11.205				
9 PCB-1260						
1	6.697	6.696	0.001	5221976H	0.0856	
1	7.187	7.186	0.001	8095678H	0.0907	
1	7.715	7.715	0.000	7203458H	0.1098	
1	8.992	8.992	0.000	12630404H	0.1029	
1	9.471	9.469	0.002	6762754H	0.0983	
		Average of Peak Amounts =			0.0975	
2	9.063	9.060	0.003	3632093H	0.0930	
2	9.831	9.828	0.003	2556239H	0.0919	
2	10.299	10.298	0.001	2083107H	0.0684	
2	10.681	10.679	0.002	6995767H	0.0983	
2	11.214	11.212	0.002	3903318H	0.0980	
		Average of Peak Amounts =			0.0899	
					RPD = 8.06	
11 PCB-1268						U
1		9.533			ND	
1		9.597				
1		9.906				
1		10.870				
2		11.200				
2		11.267				
2		11.620				
2		12.432				
* 46 PCB-205 (IS)						
1	10.532	10.528	0.004	160422299H	0.1000	
2	12.051	12.048	0.003	88117038H	0.1000	
$ 12 DCB Decachlorobiphenyl (Surr)						
1	11.138	11.137	0.001	22496924H	0.0159	
2	12.764	12.762	0.002	11499826H	0.0155	
					RPD = 2.52	
13 1260 Res 2						
1		0.000			ND	
2		0.000				
14 1260 Res 3						
1		0.000			ND	
2		0.000				
15 1260 Res 1						
1		0.000			ND	
2		0.000				

QC Flag Legend

Review Flags

U - Marked Undetected

Reagents:

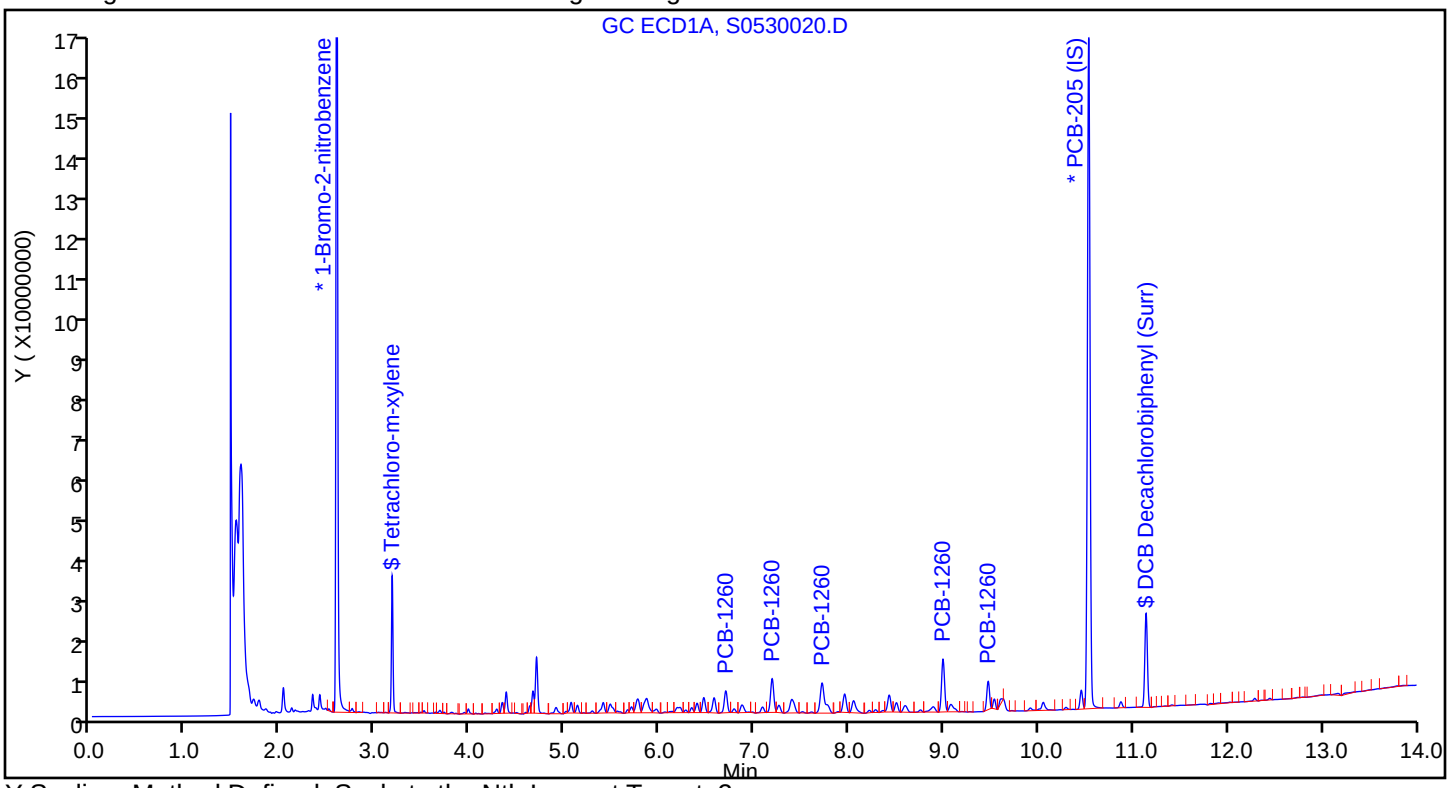
PCBINT_00007	Amount Added:	0.01	Units: mL	Run Reagent

Report Date: 31-May-2018 06:29:10 Chrom Revision: 2.2 11-May-2018 08:54:46

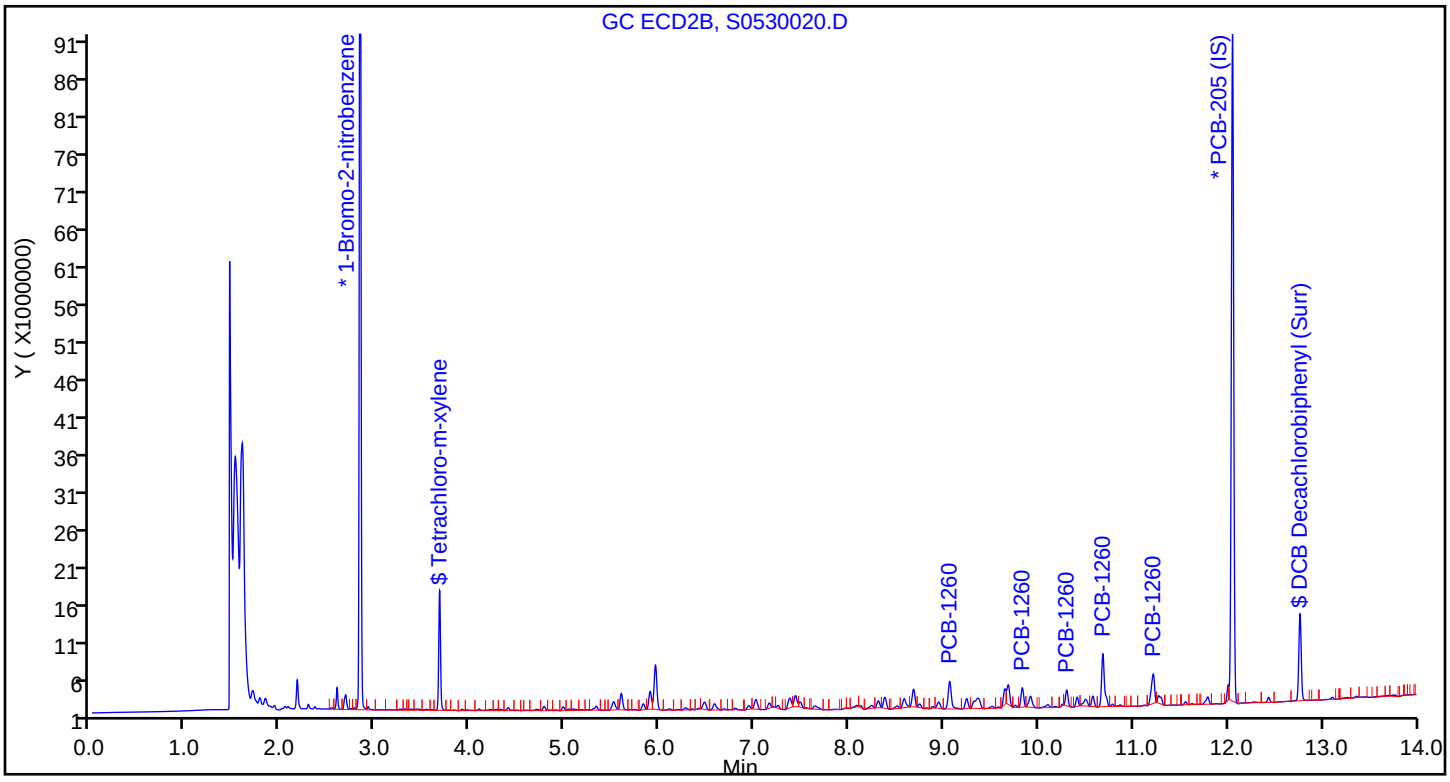
TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CHGC10\20180530-21981.b\S0530020.D				
Injection Date:	30-May-2018 11:24:52	Instrument ID:	CHGC10		
Lims ID:	180-78164-A-2-A	Lab Sample ID:	180-78164-2		
Client ID:	CE-MW-37R2_052218				
Operator ID:		ALS Bottle#:	20	Worklist Smp#:	20
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	IS PCB_CHGC10DUAL	Limit Group:	GCS 8082A ICAL with IS		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



User Disabled Compound Report

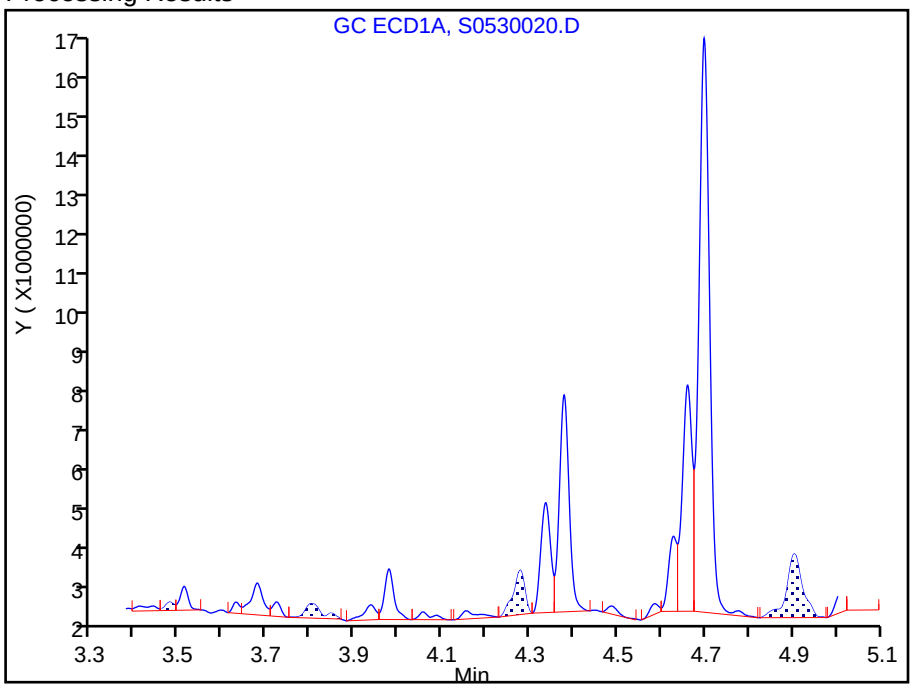
TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CHGC10\20180530-21981.b\S0530020.D				
Injection Date:	30-May-2018 11:24:52	Instrument ID:	CHGC10		
Lims ID:	180-78164-A-2-A	Lab Sample ID:	180-78164-2		
Client ID:	CE-MW-37R2_052218				
Operator ID:		ALS Bottle#:	20	Worklist Smp#:	20
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	IS PCB_CHGC10DUAL	Limit Group:	GCS 8082A ICAL with IS		

6 PCB-1016, Detector: 1, GC ECD1A

Processing Results

Exp RT	RT	Response	Amount
3.47	3.48	194913	0.004940
3.80	3.80	336856	0.005829
4.28	4.28	1033668	0.012145
4.42			
4.90	4.90	1483912	0.035375
		Average =	0.014572



Reviewer: oravecj, 31-May-2018 06:25:28

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

User Disabled Compound Report

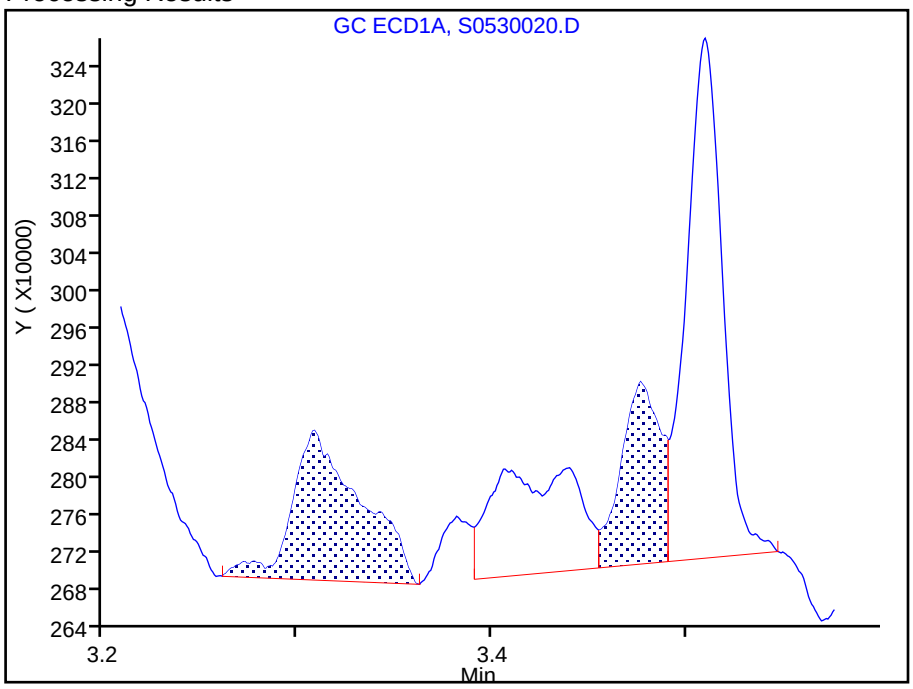
TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CHGC10\20180530-21981.b\S0530020.D				
Injection Date:	30-May-2018 11:24:52	Instrument ID:	CHGC10		
Lims ID:	180-78164-A-2-A	Lab Sample ID:	180-78164-2		
Client ID:	CE-MW-37R2_052218				
Operator ID:		ALS Bottle#:	20	Worklist Smp#:	20
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	IS PCB_CHGC10DUAL	Limit Group:	GCS 8082A ICAL with IS		

3 PCB-1221, Detector: 1, GC ECD1A

Processing Results

Exp RT	RT	Response	Amount
3.31	3.31	159975	0.006321
3.43			
3.47	3.48	194913	0.003212
		Average =	0.004766



Reviewer: oravecj, 31-May-2018 06:25:24

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

User Disabled Compound Report

TestAmerica Pittsburgh

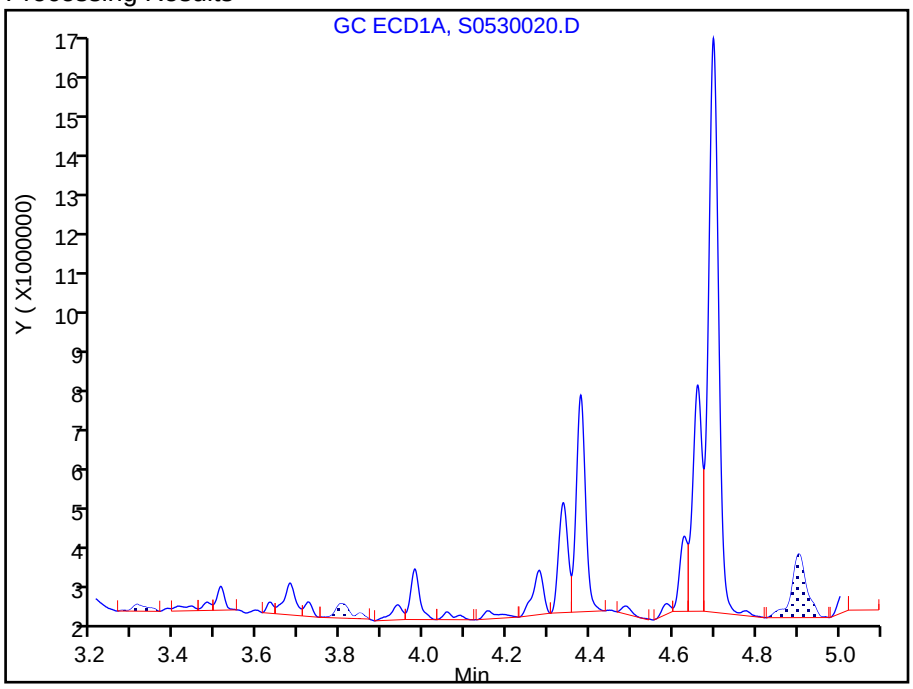
Data File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180530-21981.b\S0530020.D

Injection Date:	30-May-2018 11:24:52	Instrument ID:	CHGC10
Lims ID:	180-78164-A-2-A	Lab Sample ID:	180-78164-2
Client ID:	CE-MW-37R2_052218		
Operator ID:		ALS Bottle#: 20	Worklist Smp#: 20
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	IS PCB_CHGC10DUAL	Limit Group:	GCS 8082A ICAL with IS

4 PCB-1232, Detector: 1, GC ECD1A

Processing Results

Exp RT	RT	Response	Amount
3.31	3.31	159975	0.009313
3.79	3.80	336856	0.012188
4.00			
4.42			
4.90	4.90	1483912	0.082704
		Average =	0.032497



Reviewer: oravecj, 31-May-2018 06:25:25

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

User Disabled Compound Report

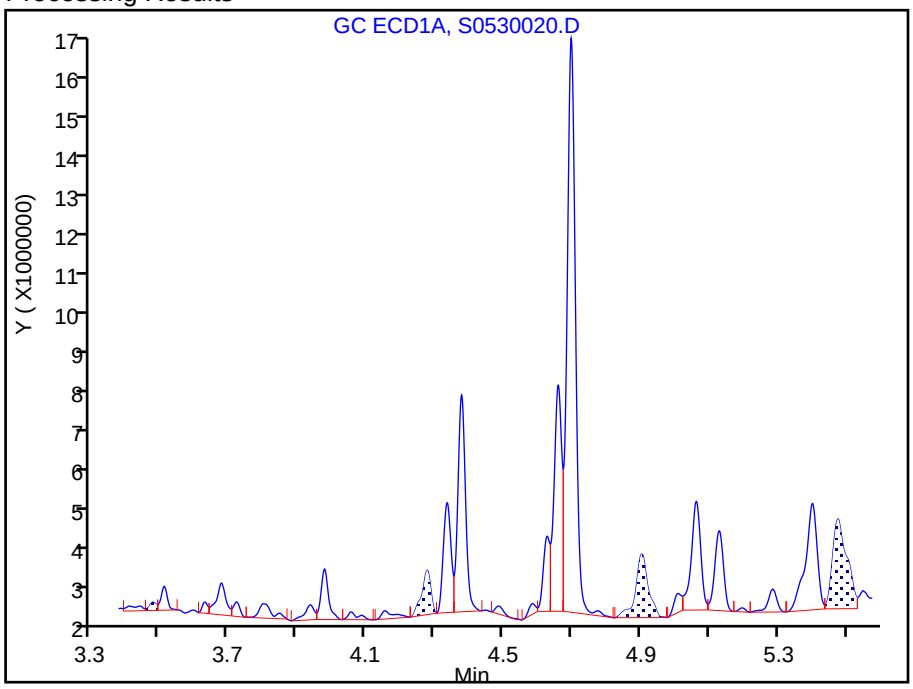
TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CHGC10\20180530-21981.b\S0530020.D				
Injection Date:	30-May-2018 11:24:52	Instrument ID:	CHGC10		
Lims ID:	180-78164-A-2-A	Lab Sample ID:	180-78164-2		
Client ID:	CE-MW-37R2_052218				
Operator ID:		ALS Bottle#:	20	Worklist Smp#:	20
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	IS PCB_CHGC10DUAL	Limit Group:	GCS 8082A ICAL with IS		

5 PCB-1242, Detector: 1, GC ECD1A

Processing Results

Exp RT	RT	Response	Amount
3.48	3.48	194913	0.005548
4.28	4.28	1033668	0.014338
4.42			
4.90	4.90	1483912	0.040706
5.47	5.48	2096282	0.067471
		Average =	0.032016



Reviewer: oravecj, 31-May-2018 06:25:26

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

User Disabled Compound Report

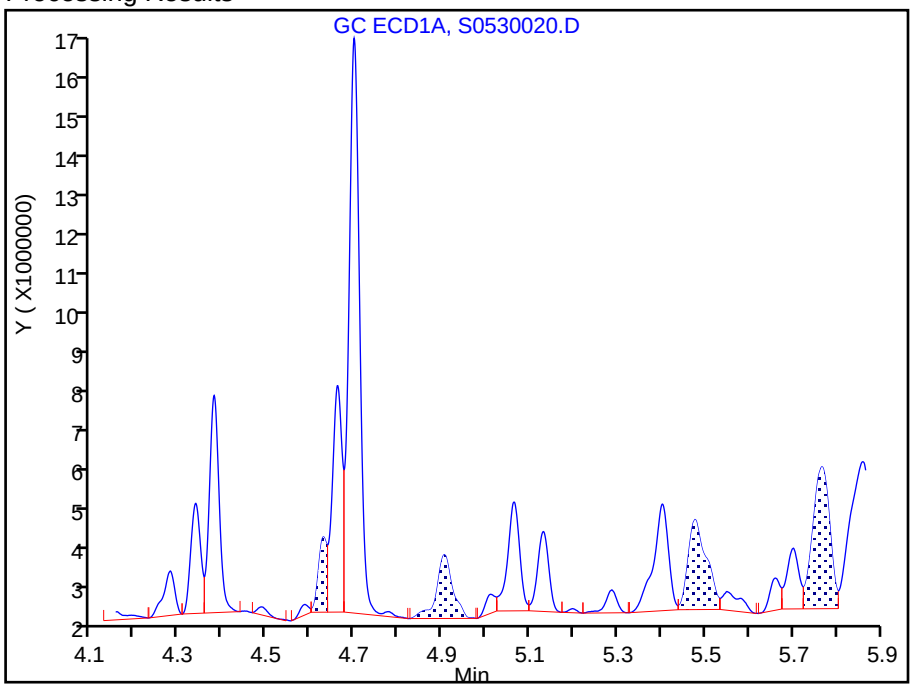
TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180530-21981.b\S0530020.D
Injection Date: 30-May-2018 11:24:52 Instrument ID: CHGC10
Lims ID: 180-78164-A-2-A Lab Sample ID: 180-78164-2
Client ID: CE-MW-37R2_052218
Operator ID: ALS Bottle#: 20 Worklist Smp#: 20
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: IS PCB_CHGC10DUAL Limit Group: GCS 8082A ICAL with IS

7 PCB-1248, Detector: 1, GC ECD1A

Processing Results

Exp RT	RT	Response	Amount
4.25			
4.63	4.63	1751969	0.037242
4.90	4.90	1483912	0.025642
5.47	5.48	2096282	0.037875
5.78	5.77	3304939	0.091112
		Average =	0.036061



Reviewer: oravecj, 31-May-2018 06:25:35
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

User Disabled Compound Report

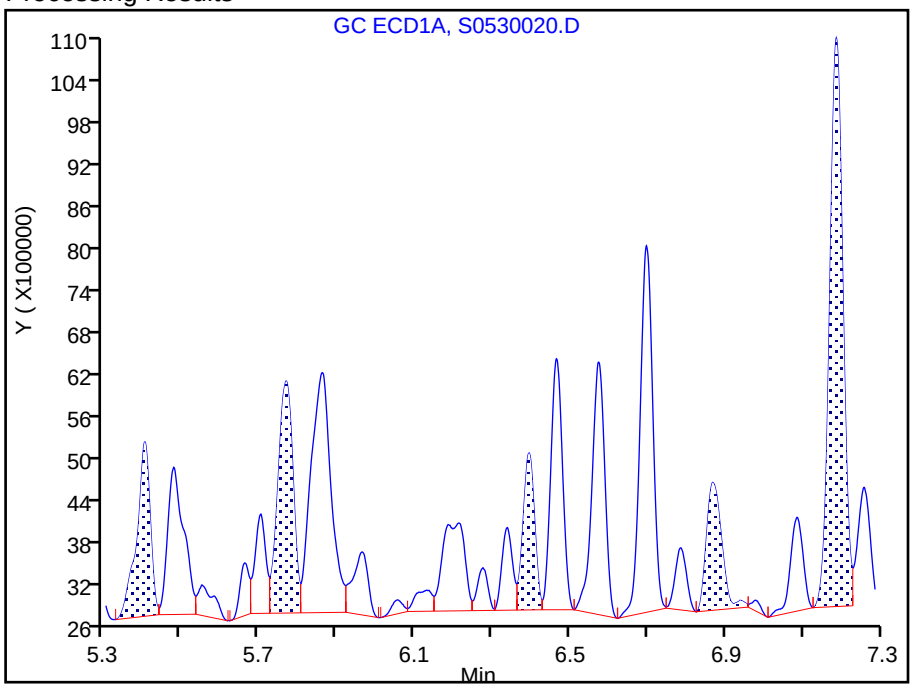
TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CHGC10\20180530-21981.b\S0530020.D				
Injection Date:	30-May-2018 11:24:52	Instrument ID:	CHGC10		
Lims ID:	180-78164-A-2-A	Lab Sample ID:	180-78164-2		
Client ID:	CE-MW-37R2_052218				
Operator ID:		ALS Bottle#:	20	Worklist Smp#:	20
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	IS PCB_CHGC10DUAL	Limit Group:	GCS 8082A ICAL with IS		

8 PCB-1254, Detector: 1, GC ECD1A

Processing Results

Exp RT	RT	Response	Amount
5.40	5.40	2482676	0.042369
5.77	5.77	3304939	0.045013
6.39	6.39	2235270	0.023621
6.86	6.87	1821238	0.029658
7.18	7.19	8095678	0.141497
		Average =	0.056432



Reviewer: oravecj, 31-May-2018 06:25:38

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh Job No.: 180-78164-1

SDG No.:

Client Sample ID: CE-MW-37R2_052218 Lab Sample ID: 180-78164-2

Matrix: Water Lab File ID: S0530020.D

Analysis Method: 8082A Date Collected: 05/22/2018 11:16

Extraction Method: 3510C Date Extracted: 05/29/2018 14:00

Sample wt/vol: 960(mL) Date Analyzed: 05/30/2018 11:24

Con. Extract Vol.: 1.0(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: RTX-CLP2 ID: 0.53(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 246135 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl (Surr)	77		46-126
877-09-8	Tetrachloro-m-xylene	58		36-130

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180530-21981.b\S0530020.D
Lims ID: 180-78164-A-2-A
Client ID: CE-MW-37R2_052218
Sample Type: Client
Inject. Date: 30-May-2018 11:24:52 ALS Bottle#: 20 Worklist Smp#: 20
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0021981-020
Operator ID: Instrument ID: CHGC10

Method: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180530-21981.b\IS PCB_CHGC10DUAL.m
Limit Group: GCS 8082A ICAL with IS
Last Update: 31-May-2018 06:28:26 Calib Date: 01-Mar-2018 20:27:10
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\S0301050.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK028

First Level Reviewer: oravecj Date: 31-May-2018 06:25:58

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng	Flags
* 1 1-Bromo-2-nitrobenzene						
1	2.588	2.585	0.003	240365330H	0.1000	
2	2.835	2.831	0.004	153842332H	0.1000	
$ 2 Tetrachloro-m-xylene						
1	3.173	3.173	0.000	32853060H	0.0124	
2	3.674	3.672	0.002	15850567H	0.0115	
					RPD = 7.04	
3 PCB-1221						U
1		3.307			ND	
1		3.433				
1		3.471				
2		3.207				
2		3.964				
2		4.196				
4 PCB-1232						U
1		3.308			ND	
1		3.795				
1		4.001				
1		4.421				
1		4.900				
2		3.966				
2		4.691				
2		5.028				
2		5.525				
2		5.684				

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng	Flags
6	PCB-1016					U
1		3.474			ND	
1		3.796				
1		4.276				
1		4.420				
1		4.901				
2		5.029				
2		5.327				
2		5.526				
2		6.270				
2		6.481				
5	PCB-1242					U
1		3.475			ND	
1		4.278				
1		4.423				
1		4.903				
1		5.466				
2		4.694				
2		5.329				
2		5.528				
2		6.271				
2		7.021				
7	PCB-1248					U
1		4.254			ND	
1		4.629				
1		4.901				
1		5.465				
1		5.784				
2		5.824				
2		6.269				
2		6.482				
2		6.934				
2		7.453				
8	PCB-1254					U
1		5.397			ND	
1		5.771				
1		6.389				
1		6.860				
1		7.184				
2		7.357				
2		8.303				
2		9.058				
2		9.361				
2		9.679				

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng	Flags
10 PCB-1262						U
1		6.694			ND	
1		7.184				
1		7.950				
1		8.422				
1		9.531				
2		8.678				
2		9.826				
2		10.297				
2		10.678				
2		11.205				
9 PCB-1260						
1	6.697	6.696	0.001	5221976H	0.0856	
1	7.187	7.186	0.001	8095678H	0.0907	
1	7.715	7.715	0.000	7203458H	0.1098	
1	8.992	8.992	0.000	12630404H	0.1029	
1	9.471	9.469	0.002	6762754H	0.0983	
		Average of Peak Amounts =			0.0975	
2	9.063	9.060	0.003	3632093H	0.0930	
2	9.831	9.828	0.003	2556239H	0.0919	
2	10.299	10.298	0.001	2083107H	0.0684	
2	10.681	10.679	0.002	6995767H	0.0983	
2	11.214	11.212	0.002	3903318H	0.0980	
		Average of Peak Amounts =			0.0899	
					RPD = 8.06	
11 PCB-1268						U
1		9.533			ND	
1		9.597				
1		9.906				
1		10.870				
2		11.200				
2		11.267				
2		11.620				
2		12.432				
* 46 PCB-205 (IS)						
1	10.532	10.528	0.004	160422299H	0.1000	
2	12.051	12.048	0.003	88117038H	0.1000	
$ 12 DCB Decachlorobiphenyl (Surr)						
1	11.138	11.137	0.001	22496924H	0.0159	
2	12.764	12.762	0.002	11499826H	0.0155	
					RPD = 2.52	
13 1260 Res 2						
1		0.000			ND	
2		0.000				
14 1260 Res 3						
1		0.000			ND	
2		0.000				
15 1260 Res 1						
1		0.000			ND	
2		0.000				

QC Flag Legend

Review Flags

U - Marked Undetected

Reagents:

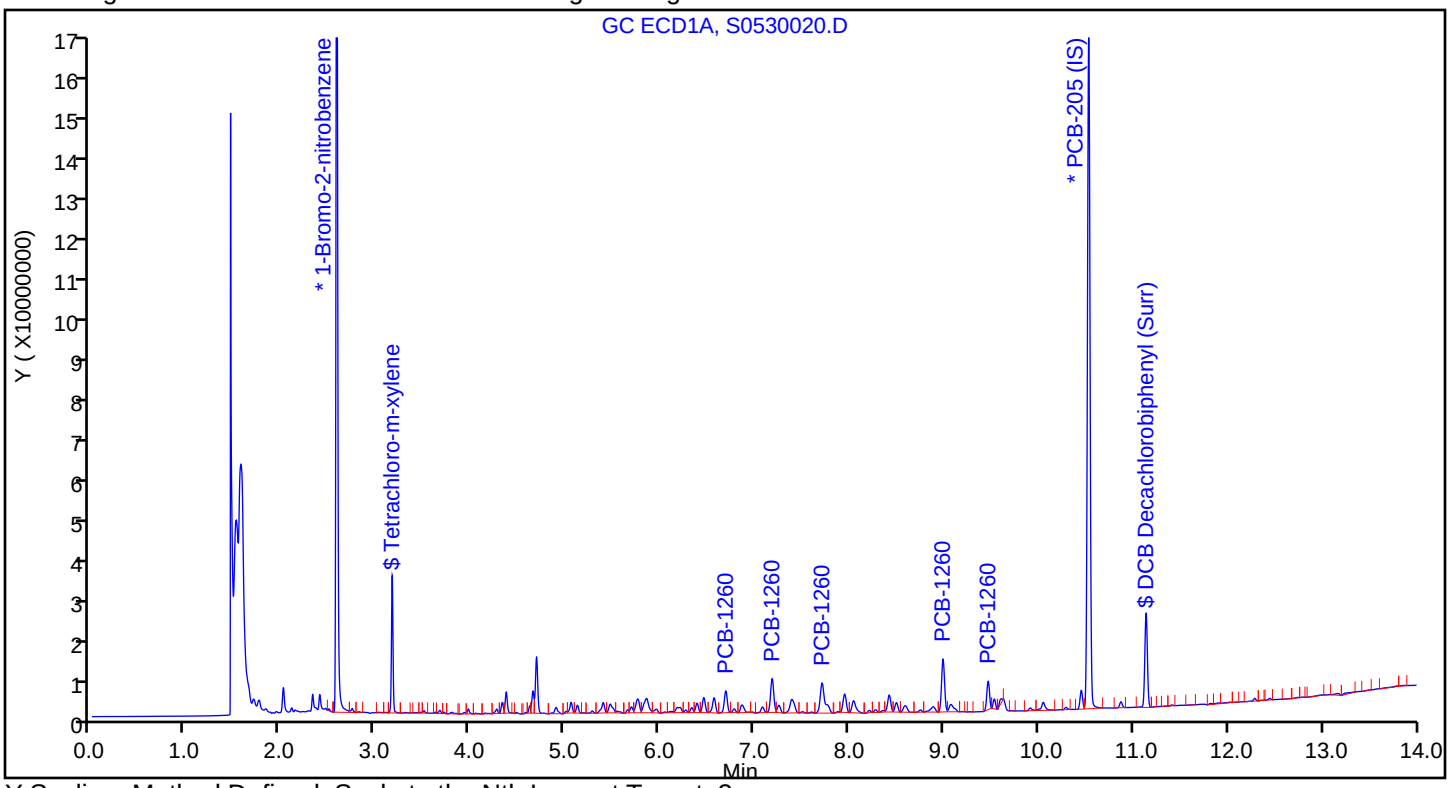
PCBINT_00007 Amount Added: 0.01 Units: mL Run Reagent

Report Date: 31-May-2018 06:29:11 Chrom Revision: 2.2 11-May-2018 08:54:46

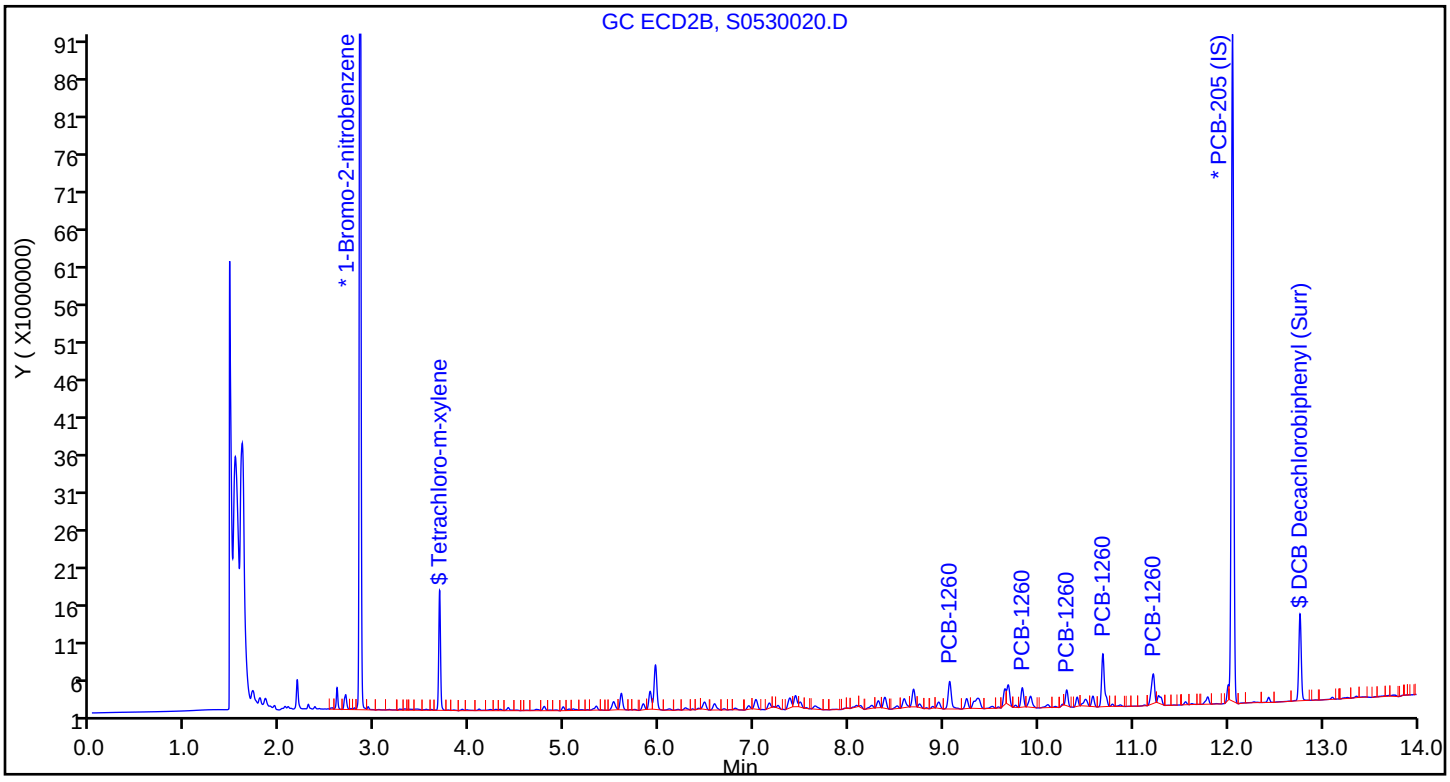
TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CHGC10\20180530-21981.b\S0530020.D				
Injection Date:	30-May-2018 11:24:52	Instrument ID:	CHGC10		
Lims ID:	180-78164-A-2-A	Lab Sample ID:	180-78164-2		
Client ID:	CE-MW-37R2_052218				
Operator ID:		ALS Bottle#:	20	Worklist Smp#:	20
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	IS PCB_CHGC10DUAL	Limit Group:	GCS 8082A ICAL with IS		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



User Disabled Compound Report

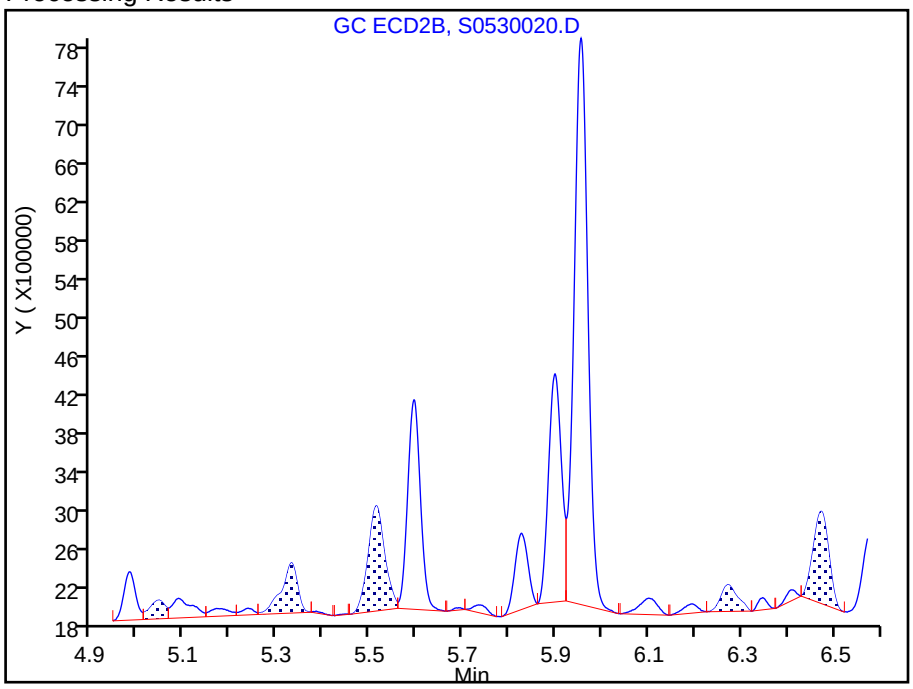
TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CHGC10\20180530-21981.b\S0530020.D				
Injection Date:	30-May-2018 11:24:52	Instrument ID:	CHGC10		
Lims ID:	180-78164-A-2-A	Lab Sample ID:	180-78164-2		
Client ID:	CE-MW-37R2_052218				
Operator ID:		ALS Bottle#:	20	Worklist Smp#:	20
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	IS PCB_CHGC10DUAL	Limit Group:	GCS 8082A ICAL with IS		

6 PCB-1016, Detector: 2, GC ECD2B

Processing Results

Exp RT	RT	Response	Amount
5.03	5.04	193780	0.014040
5.33	5.33	521531	0.012486
5.53	5.51	1090725	0.045798
6.27	6.27	277715	0.014414
6.48	6.47	955629	0.059432
		Average =	0.014572



Reviewer: oravecj, 31-May-2018 06:25:28

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

User Disabled Compound Report

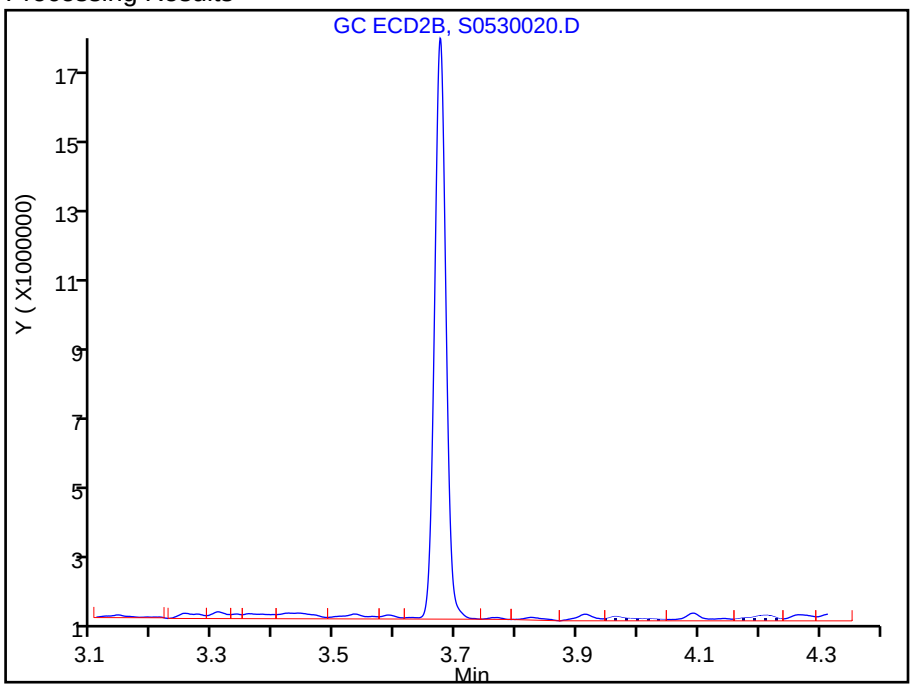
TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CHGC10\20180530-21981.b\S0530020.D		
Injection Date:	30-May-2018 11:24:52	Instrument ID:	CHGC10
Lims ID:	180-78164-A-2-A	Lab Sample ID:	180-78164-2
Client ID:	CE-MW-37R2_052218		
Operator ID:		ALS Bottle#:	20 Worklist Smp#: 20
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	IS PCB_CHGC10DUAL	Limit Group:	GCS 8082A ICAL with IS

3 PCB-1221, Detector: 2, GC ECD2B

Processing Results

Exp RT	RT	Response	Amount
3.21			
3.96	3.96	115474	0.008775
4.20	4.21	150151	0.005470
		Average =	0.004766



Reviewer: oravecj, 31-May-2018 06:25:24

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

User Disabled Compound Report

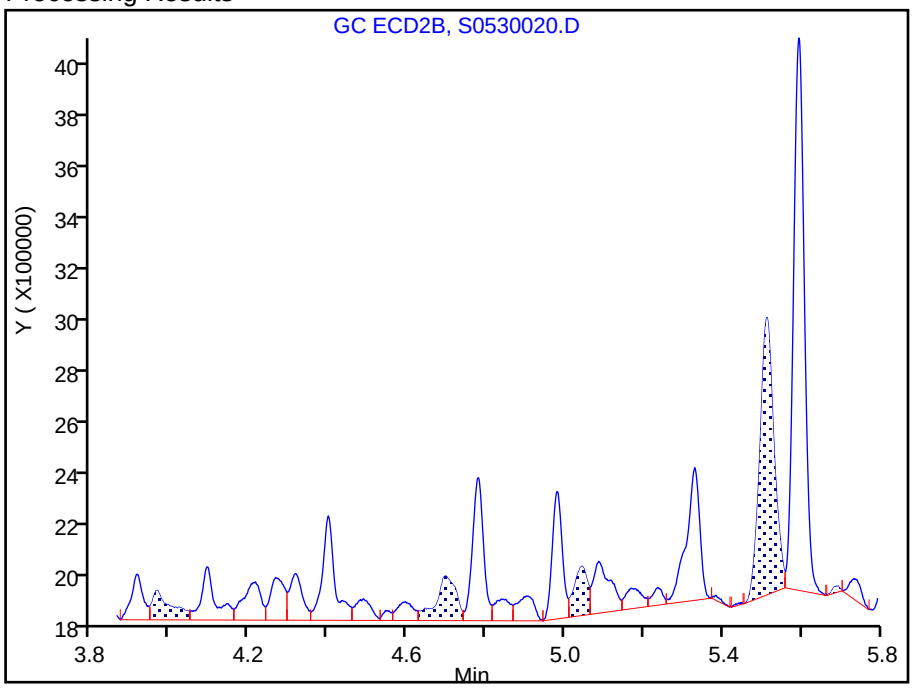
TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CHGC10\20180530-21981.b\S0530020.D				
Injection Date:	30-May-2018 11:24:52	Instrument ID:	CHGC10		
Lims ID:	180-78164-A-2-A	Lab Sample ID:	180-78164-2		
Client ID:	CE-MW-37R2_052218				
Operator ID:		ALS Bottle#:	20	Worklist Smp#:	20
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	IS PCB_CHGC10DUAL	Limit Group:	GCS 8082A ICAL with IS		

4 PCB-1232, Detector: 2, GC ECD2B

Processing Results

Exp RT	RT	Response	Amount
3.97	3.96	115474	0.013525
4.69	4.70	175453	0.014471
5.03	5.04	193780	0.029220
5.52	5.51	1090725	0.102269
5.68	5.69	22938	0.003001
		Average =	0.032497



Reviewer: oravecj, 31-May-2018 06:25:25

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

User Disabled Compound Report

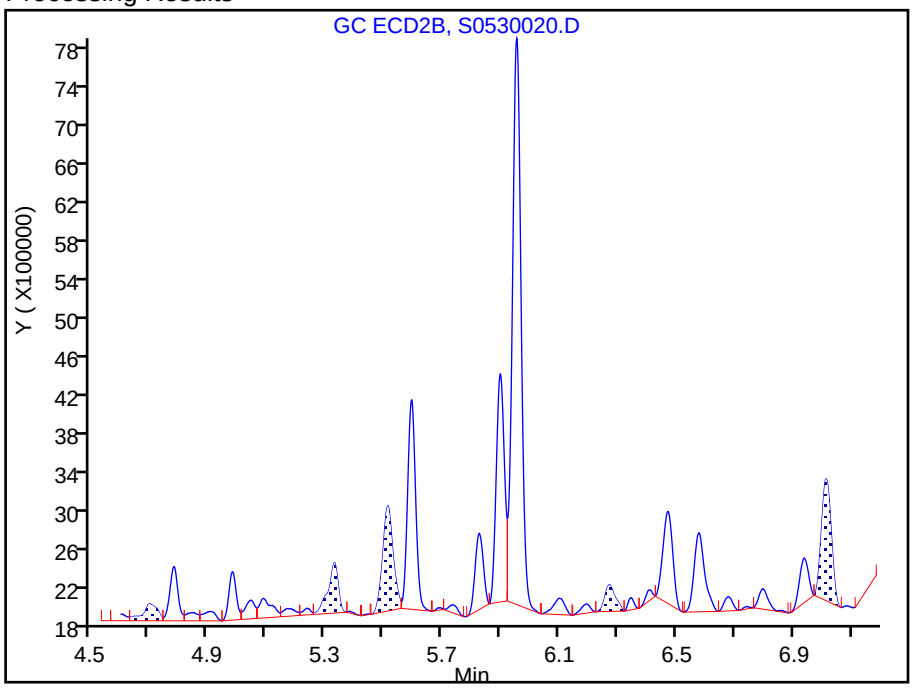
TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CHGC10\20180530-21981.b\S0530020.D				
Injection Date:	30-May-2018 11:24:52	Instrument ID:	CHGC10		
Lims ID:	180-78164-A-2-A	Lab Sample ID:	180-78164-2		
Client ID:	CE-MW-37R2_052218				
Operator ID:		ALS Bottle#:	20	Worklist Smp#:	20
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	IS PCB_CHGC10DUAL	Limit Group:	GCS 8082A ICAL with IS		

5 PCB-1242, Detector: 2, GC ECD2B

Processing Results

Exp RT	RT	Response	Amount
4.69	4.70	175453	0.007933
5.33	5.33	521531	0.015003
5.53	5.51	1090725	0.054545
6.27	6.27	277715	0.016778
7.02	7.02	1262706	0.074990
		Average =	0.032016



Reviewer: oravecj, 31-May-2018 06:25:26

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

User Disabled Compound Report

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180530-21981.b\S0530020.D

Injection Date: 30-May-2018 11:24:52 Instrument ID: CHGC10

Lims ID: 180-78164-A-2-A Lab Sample ID: 180-78164-2

Client ID: CE-MW-37R2_052218

Operator ID: ALS Bottle#: 20 Worklist Smp#: 20

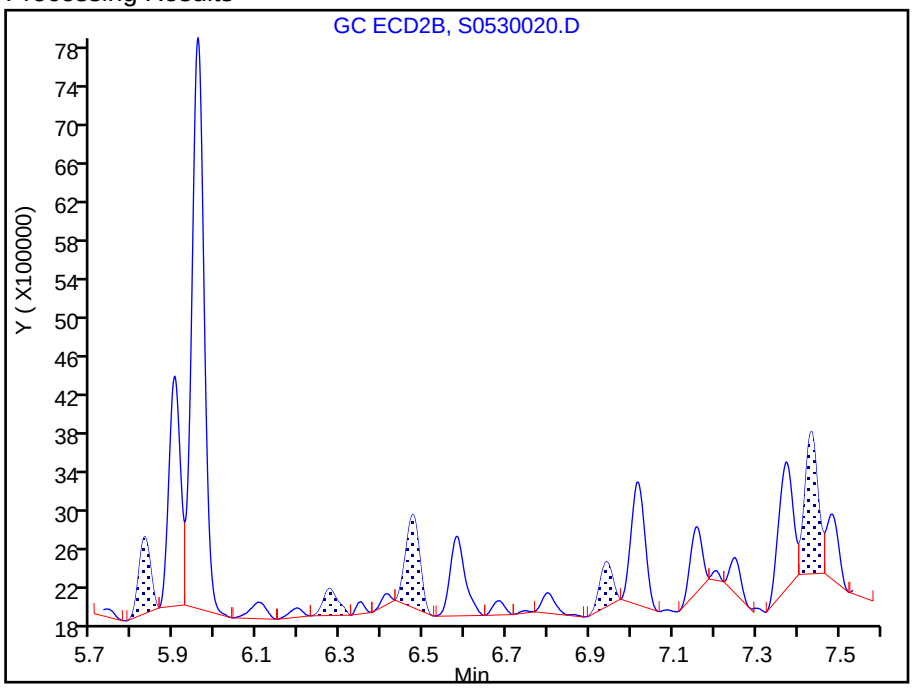
Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: IS PCB_CHGC10DUAL Limit Group: GCS 8082A ICAL with IS

7 PCB-1248, Detector: 2, GC ECD2B

Processing Results

Exp RT	RT	Response	Amount
5.82	5.83	790497	0.036865
6.27	6.27	277715	0.010662
6.48	6.47	955629	0.044702
6.93	6.94	463314	0.017165
7.45	7.43	1463664	0.070911
		Average =	0.036061



Reviewer: oravecj, 31-May-2018 06:25:35

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

User Disabled Compound Report

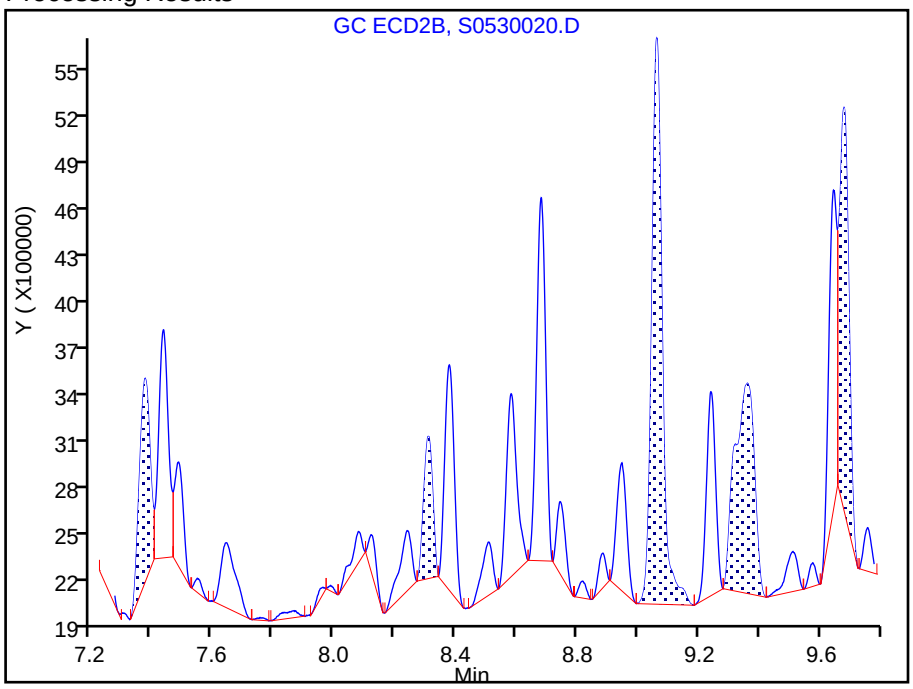
TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CHGC10\20180530-21981.b\S0530020.D				
Injection Date:	30-May-2018 11:24:52	Instrument ID:	CHGC10		
Lims ID:	180-78164-A-2-A	Lab Sample ID:	180-78164-2		
Client ID:	CE-MW-37R2_052218				
Operator ID:		ALS Bottle#:	20	Worklist Smp#:	20
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	IS PCB_CHGC10DUAL	Limit Group:	GCS 8082A ICAL with IS		

8 PCB-1254, Detector: 2, GC ECD2B

Processing Results

Exp RT	RT	Response	Amount
7.36	7.37	1307505	0.041688
8.30	8.31	911926	0.026987
9.06	9.06	3632093	0.180203
9.36	9.36	1349048	0.054511
9.68	9.68	2586887	0.068109
		Average =	0.056432



Reviewer: oravecj, 31-May-2018 06:25:38

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-78164-1

SDG No.:

Client Sample ID: CE-MW-34R3_052218 | Lab Sample ID: 180-78164-3

Matrix: Water | Lab File ID: S0530023.D

Analysis Method: 8082A | Date Collected: 05/22/2018 15:06

Extraction Method: 3510C | Date Extracted: 05/29/2018 14:00

Sample wt/vol: 980(mL) | Date Analyzed: 05/30/2018 12:21

Con. Extract Vol.: 1.0(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RTX-CLP1 ID: 0.53(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 246135 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	Arochlor 1016	0.0049	U	0.010	0.0049
11104-28-2	Arochlor 1221	0.0058	U	0.010	0.0058
11141-16-5	Arochlor 1232	0.0053	U	0.010	0.0053
53469-21-9	Arochlor 1242	0.0093	U	0.010	0.0093
12672-29-6	Arochlor 1248	0.0031	U	0.010	0.0031
11097-69-1	Arochlor 1254	0.0097	U	0.010	0.0097
11096-82-5	Arochlor 1260	0.040		0.010	0.0040

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl (Surr)	86		46-126
877-09-8	Tetrachloro-m-xylene	70		36-130

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180530-21981.b\S0530023.D
Lims ID: 180-78164-A-3-A
Client ID: CE-MW-34R3_052218
Sample Type: Client
Inject. Date: 30-May-2018 12:21:06 ALS Bottle#: 23 Worklist Smp#: 23
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0021981-023
Operator ID: Instrument ID: CHGC10

Method: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180530-21981.b\IS PCB_CHGC10DUAL.m
Limit Group: GCS 8082A ICAL with IS
Last Update: 31-May-2018 06:28:26 Calib Date: 01-Mar-2018 20:27:10
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\S0301050.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK028

First Level Reviewer: oravecj Date: 31-May-2018 06:26:44

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng	Flags
* 1 1-Bromo-2-nitrobenzene						
1	2.588	2.585	0.004	226376667H	0.1000	
2	2.836	2.831	0.005	142183596H	0.1000	
$ 2 Tetrachloro-m-xylene						
1	3.175	3.173	0.002	34989775H	0.0140	
2	3.676	3.672	0.004	16642602H	0.0131	
					RPD = 6.58	
3 PCB-1221						U
1		3.307			ND	
1		3.433				
1		3.471				
2		3.207				
2		3.964				
2		4.196				
4 PCB-1232						U
1		3.308			ND	
1		3.795				
1		4.001				
1		4.421				
1		4.900				
2		3.966				
2		4.691				
2		5.028				
2		5.525				
2		5.684				

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng	Flags
6	PCB-1016					U
1		3.474			ND	
1		3.796				
1		4.276				
1		4.420				
1		4.901				
2		5.029				
2		5.327				
2		5.526				
2		6.270				
2		6.481				
5	PCB-1242					U
1		3.475			ND	
1		4.278				
1		4.423				
1		4.903				
1		5.466				
2		4.694				
2		5.329				
2		5.528				
2		6.271				
2		7.021				
7	PCB-1248					U
1		4.254			ND	
1		4.629				
1		4.901				
1		5.465				
1		5.784				
2		5.824				
2		6.269				
2		6.482				
2		6.934				
2		7.453				
8	PCB-1254					U
1		5.397			ND	
1		5.771				
1		6.389				
1		6.860				
1		7.184				
2		7.357				
2		8.303				
2		9.058				
2		9.361				
2		9.679				

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng	Flags
10 PCB-1262						U
1		6.694			ND	
1		7.184				
1		7.950				
1		8.422				
1		9.531				
2		8.678				
2		9.826				
2		10.297				
2		10.678				
2		11.205				
9 PCB-1260						
1	6.699	6.696	0.003	2403451H	0.0417	
1	7.191	7.186	0.005	3524331H	0.0418	
1	7.718	7.715	0.003	2758705H	0.0445	
1	8.996	8.992	0.004	3705984H	0.0320	
1	9.470	9.469	0.001	2407088H	0.0371	
		Average of Peak Amounts =			0.0394	
2	9.065	9.060	0.005	1532651H	0.0414	
2	9.832	9.828	0.004	880422H	0.0334	
2	10.302	10.298	0.004	757286H	0.0263	
2	10.683	10.679	0.004	2054983H	0.0305	
2	11.214	11.212	0.002	1265056H	0.0335	
		Average of Peak Amounts =			0.0330	
					RPD = 17.66	
11 PCB-1268						U
1		9.533			ND	
1		9.597				
1		9.906				
1		10.870				
2		11.200				
2		11.267				
2		11.620				
2		12.432				
* 46 PCB-205 (IS)						
1	10.533	10.528	0.004	151464686H	0.1000	
2	12.053	12.048	0.004	83449434H	0.1000	
$ 12 DCB Decachlorobiphenyl (Surr)						
1	11.139	11.137	0.002	22910712H	0.0171	
2	12.765	12.762	0.003	11438867H	0.0162	
					RPD = 5.17	
13 1260 Res 2						
1		0.000			ND	
2		0.000				
14 1260 Res 3						
1		0.000			ND	
2		0.000				
15 1260 Res 1						
1		0.000			ND	
2		0.000				

QC Flag Legend

Review Flags

U - Marked Undetected

Reagents:

PCBINT_00007 Amount Added: 0.01 Units: mL Run Reagent

Report Date: 31-May-2018 06:28:58 Chrom Revision: 2.2 11-May-2018 08:54:46

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180530-21981.b\S0530023.D

Injection Date: 30-May-2018 12:21:06 Instrument ID: CHGC10

Lims ID: 180-78164-A-3-A Lab Sample ID: 180-78164-3

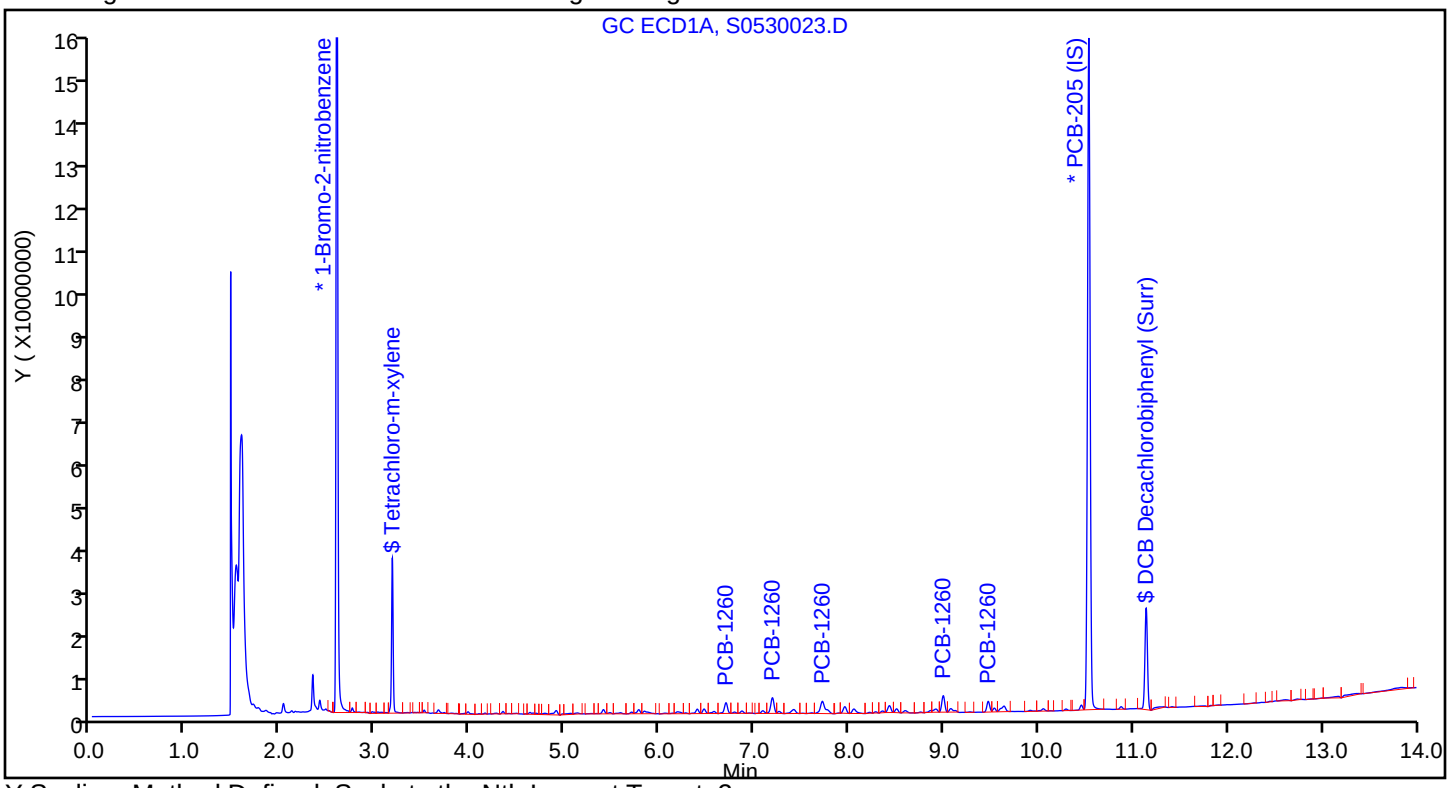
Client ID: CE-MW-34R3_052218

Operator ID: ALS Bottle#: 23 Worklist Smp#: 23

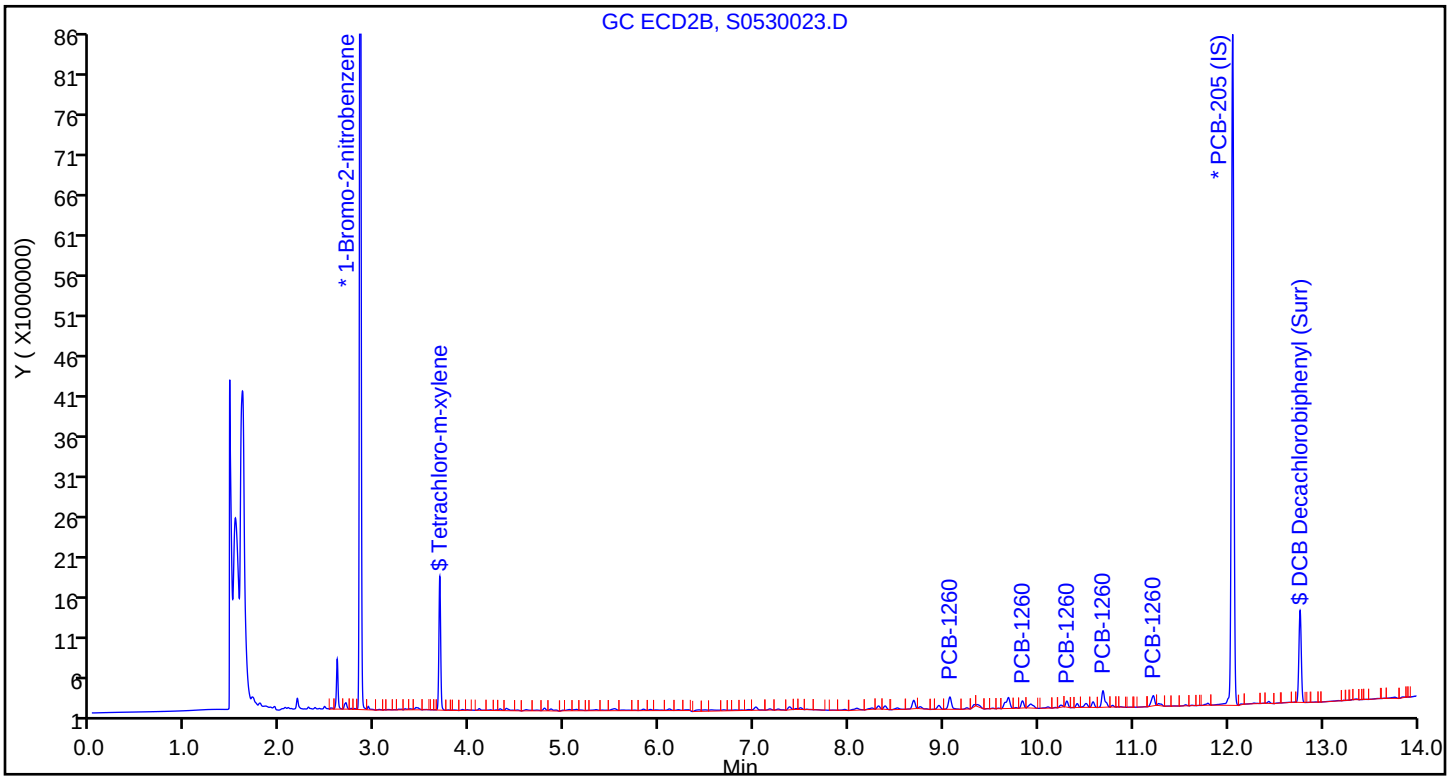
Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: IS PCB_CHGC10DUAL Limit Group: GCS 8082A ICAL with IS

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



User Disabled Compound Report

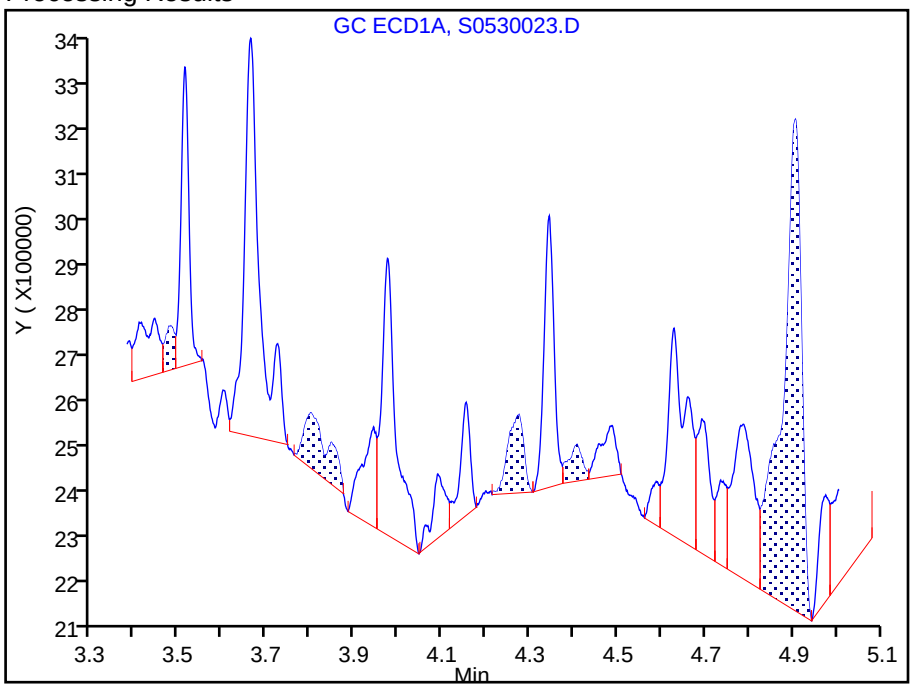
TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CHGC10\20180530-21981.b\S0530023.D		
Injection Date:	30-May-2018 12:21:06	Instrument ID:	CHGC10
Lims ID:	180-78164-A-3-A	Lab Sample ID:	180-78164-3
Client ID:	CE-MW-34R3_052218		
Operator ID:		ALS Bottle#:	23 Worklist Smp#: 23
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	IS PCB_CHGC10DUAL	Limit Group:	GCS 8082A ICAL with IS

6 PCB-1016, Detector: 1, GC ECD1A

Processing Results

Exp RT	RT	Response	Amount
3.47	3.48	86966	0.002340
3.80	3.80	109046	0.002004
4.28	4.28	154430	0.001927
4.42	4.41	72589	0.001558
4.90	4.91	970629	0.024569
		Average =	0.006479



Reviewer: oravecj, 31-May-2018 06:26:35

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

User Disabled Compound Report

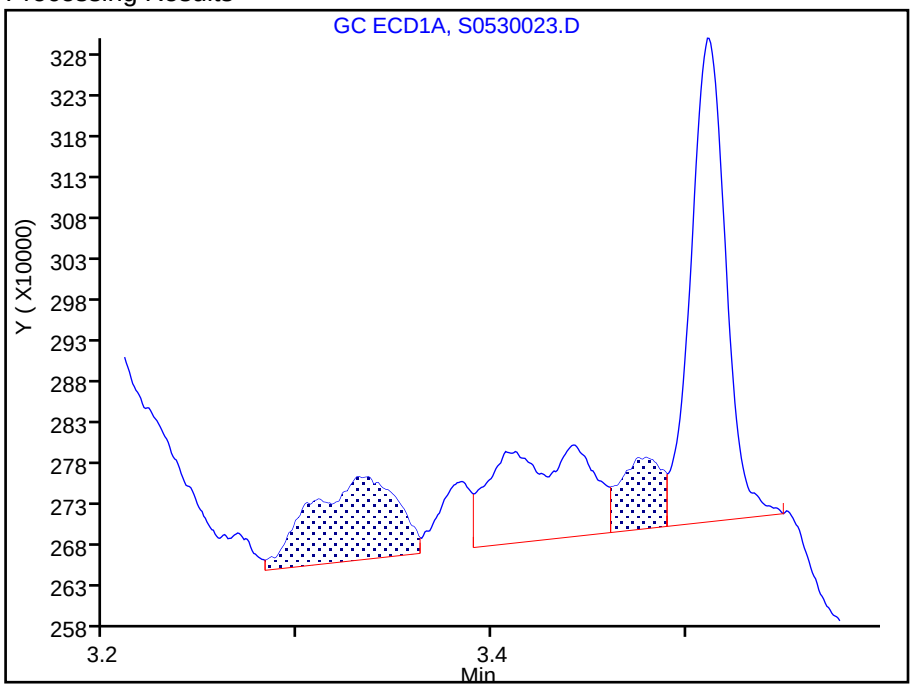
TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180530-21981.b\S0530023.D
Injection Date: 30-May-2018 12:21:06 Instrument ID: CHGC10
Lims ID: 180-78164-A-3-A Lab Sample ID: 180-78164-3
Client ID: CE-MW-34R3_052218
Operator ID: ALS Bottle#: 23 Worklist Smp#: 23
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: IS PCB_CHGC10DUAL Limit Group: GCS 8082A ICAL with IS

3 PCB-1221, Detector: 1, GC ECD1A

Processing Results

Exp RT	RT	Response	Amount
3.31	3.31	79678	0.003343
3.43			
3.47	3.48	86966	0.001522
		Average =	0.000106



Reviewer: oravecj, 31-May-2018 06:26:33
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

User Disabled Compound Report

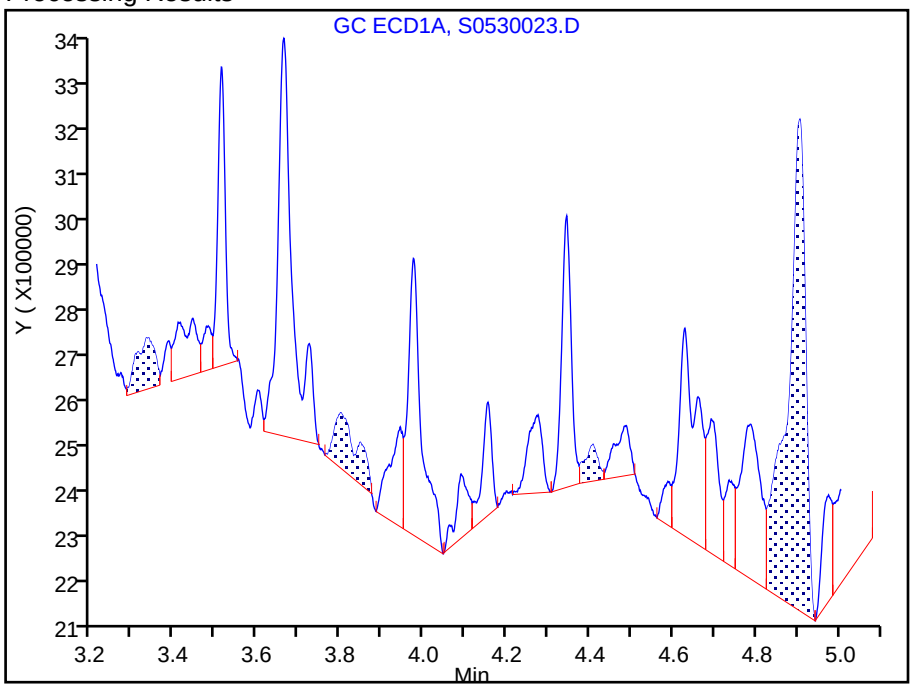
TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CHGC10\20180530-21981.b\S0530023.D		
Injection Date:	30-May-2018 12:21:06	Instrument ID:	CHGC10
Lims ID:	180-78164-A-3-A	Lab Sample ID:	180-78164-3
Client ID:	CE-MW-34R3_052218		
Operator ID:		ALS Bottle#:	23 Worklist Smp#: 23
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	IS PCB_CHGC10DUAL	Limit Group:	GCS 8082A ICAL with IS

4 PCB-1232, Detector: 1, GC ECD1A

Processing Results

Exp RT	RT	Response	Amount
3.31	3.31	79678	0.004925
3.79	3.80	109046	0.004189
4.00			
4.42	4.41	72589	0.003261
4.90	4.91	970629	0.057439
		Average =	0.016805



Reviewer: oravecj, 31-May-2018 06:26:33

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

User Disabled Compound Report

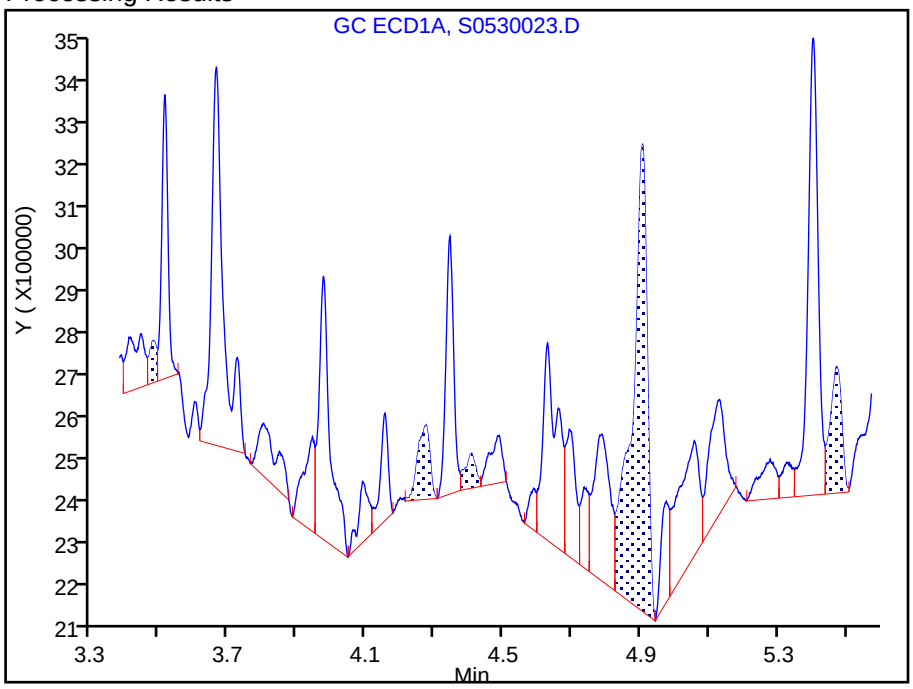
TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180530-21981.b\S0530023.D
Injection Date: 30-May-2018 12:21:06 Instrument ID: CHGC10
Lims ID: 180-78164-A-3-A Lab Sample ID: 180-78164-3
Client ID: CE-MW-34R3_052218
Operator ID: ALS Bottle#: 23 Worklist Smp#: 23
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: IS PCB_CHGC10DUAL Limit Group: GCS 8082A ICAL with IS

5 PCB-1242, Detector: 1, GC ECD1A

Processing Results

Exp RT	RT	Response	Amount
3.48	3.48	86966	0.002628
4.28	4.28	154430	0.002275
4.42	4.41	72589	0.001831
4.90	4.91	970629	0.028271
5.47	5.48	261146	0.008925
		Average =	0.008786



Reviewer: oravecj, 31-May-2018 06:26:34
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

User Disabled Compound Report

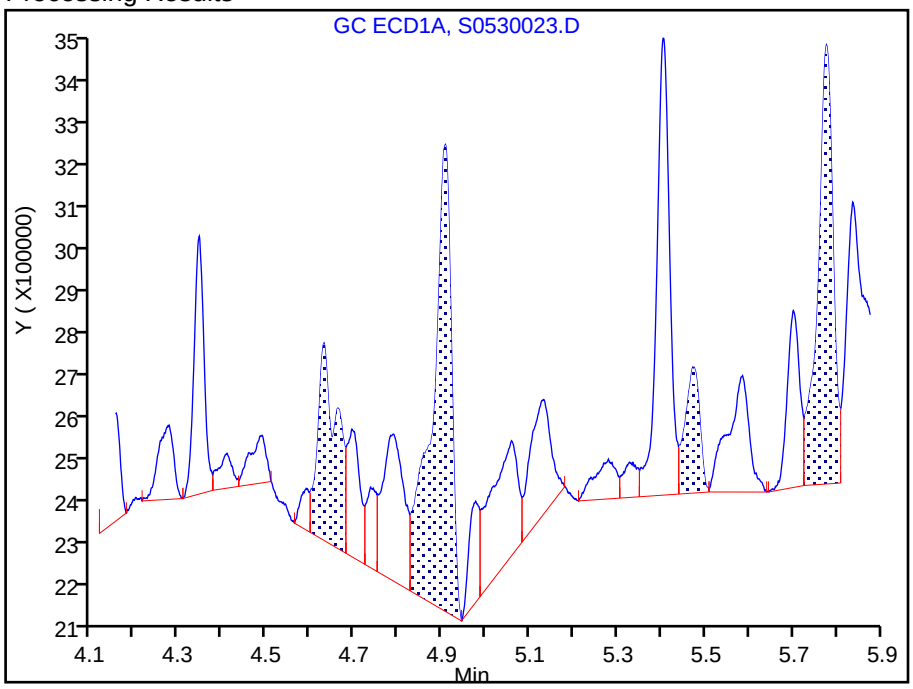
TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CHGC10\20180530-21981.b\S0530023.D		
Injection Date:	30-May-2018 12:21:06	Instrument ID:	CHGC10
Lims ID:	180-78164-A-3-A	Lab Sample ID:	180-78164-3
Client ID:	CE-MW-34R3_052218		
Operator ID:		ALS Bottle#:	23 Worklist Smp#: 23
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	IS PCB_CHGC10DUAL	Limit Group:	GCS 8082A ICAL with IS

7 PCB-1248, Detector: 1, GC ECD1A

Processing Results

Exp RT	RT	Response	Amount
4.25			
4.63	4.63	410679	0.009269
4.90	4.91	970629	0.017809
5.47	5.48	261146	0.005010
5.78	5.78	912804	0.026720
		Average =	0.006187



Reviewer: oravecj, 31-May-2018 06:26:35

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

User Disabled Compound Report

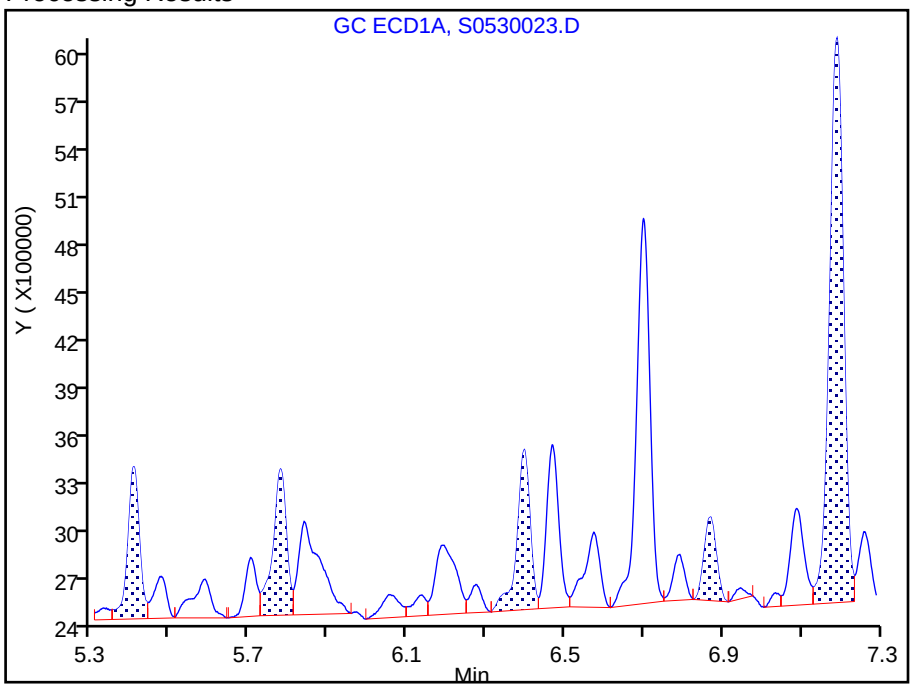
TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CHGC10\20180530-21981.b\S0530023.D				
Injection Date:	30-May-2018 12:21:06	Instrument ID:	CHGC10		
Lims ID:	180-78164-A-3-A	Lab Sample ID:	180-78164-3		
Client ID:	CE-MW-34R3_052218				
Operator ID:		ALS Bottle#:	23	Worklist Smp#:	23
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	IS PCB_CHGC10DUAL	Limit Group:	GCS 8082A ICAL with IS		

8 PCB-1254, Detector: 1, GC ECD1A

Processing Results

Exp RT	RT	Response	Amount
5.40	5.41	950074	0.017173
5.77	5.78	912804	0.013167
6.39	6.40	999087	0.011182
6.86	6.87	521766	0.008999
7.18	7.19	3524331	0.065242
		Average =	0.023153



Reviewer: oravecj, 31-May-2018 06:26:36

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh Job No.: 180-78164-1

SDG No.:

Client Sample ID: CE-MW-34R3_052218 Lab Sample ID: 180-78164-3

Matrix: Water Lab File ID: S0530023.D

Analysis Method: 8082A Date Collected: 05/22/2018 15:06

Extraction Method: 3510C Date Extracted: 05/29/2018 14:00

Sample wt/vol: 980(mL) Date Analyzed: 05/30/2018 12:21

Con. Extract Vol.: 1.0(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: RTX-CLP2 ID: 0.53(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 246135 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl (Surr)	81		46-126
877-09-8	Tetrachloro-m-xylene	65		36-130

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180530-21981.b\S0530023.D
Lims ID: 180-78164-A-3-A
Client ID: CE-MW-34R3_052218
Sample Type: Client
Inject. Date: 30-May-2018 12:21:06 ALS Bottle#: 23 Worklist Smp#: 23
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0021981-023
Operator ID: Instrument ID: CHGC10

Method: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180530-21981.b\IS PCB_CHGC10DUAL.m
Limit Group: GCS 8082A ICAL with IS
Last Update: 31-May-2018 06:28:26 Calib Date: 01-Mar-2018 20:27:10
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\S0301050.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK028

First Level Reviewer: oravecj Date: 31-May-2018 06:26:44

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng	Flags
* 1 1-Bromo-2-nitrobenzene						
1	2.588	2.585	0.004	226376667H	0.1000	
2	2.836	2.831	0.005	142183596H	0.1000	
$ 2 Tetrachloro-m-xylene						
1	3.175	3.173	0.002	34989775H	0.0140	
2	3.676	3.672	0.004	16642602H	0.0131	
					RPD = 6.58	
3 PCB-1221						U
1		3.307			ND	
1		3.433				
1		3.471				
2		3.207				
2		3.964				
2		4.196				
4 PCB-1232						U
1		3.308			ND	
1		3.795				
1		4.001				
1		4.421				
1		4.900				
2		3.966				
2		4.691				
2		5.028				
2		5.525				
2		5.684				

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng	Flags
6	PCB-1016					U
1		3.474			ND	
1		3.796				
1		4.276				
1		4.420				
1		4.901				
2		5.029				
2		5.327				
2		5.526				
2		6.270				
2		6.481				
5	PCB-1242					U
1		3.475			ND	
1		4.278				
1		4.423				
1		4.903				
1		5.466				
2		4.694				
2		5.329				
2		5.528				
2		6.271				
2		7.021				
7	PCB-1248					U
1		4.254			ND	
1		4.629				
1		4.901				
1		5.465				
1		5.784				
2		5.824				
2		6.269				
2		6.482				
2		6.934				
2		7.453				
8	PCB-1254					U
1		5.397			ND	
1		5.771				
1		6.389				
1		6.860				
1		7.184				
2		7.357				
2		8.303				
2		9.058				
2		9.361				
2		9.679				

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng	Flags
10 PCB-1262						U
1		6.694			ND	
1		7.184				
1		7.950				
1		8.422				
1		9.531				
2		8.678				
2		9.826				
2		10.297				
2		10.678				
2		11.205				
9 PCB-1260						
1	6.699	6.696	0.003	2403451H	0.0417	
1	7.191	7.186	0.005	3524331H	0.0418	
1	7.718	7.715	0.003	2758705H	0.0445	
1	8.996	8.992	0.004	3705984H	0.0320	
1	9.470	9.469	0.001	2407088H	0.0371	
		Average of Peak Amounts =			0.0394	
2	9.065	9.060	0.005	1532651H	0.0414	
2	9.832	9.828	0.004	880422H	0.0334	
2	10.302	10.298	0.004	757286H	0.0263	
2	10.683	10.679	0.004	2054983H	0.0305	
2	11.214	11.212	0.002	1265056H	0.0335	
		Average of Peak Amounts =			0.0330	
					RPD = 17.66	
11 PCB-1268						U
1		9.533			ND	
1		9.597				
1		9.906				
1		10.870				
2		11.200				
2		11.267				
2		11.620				
2		12.432				
* 46 PCB-205 (IS)						
1	10.533	10.528	0.004	151464686H	0.1000	
2	12.053	12.048	0.004	83449434H	0.1000	
$ 12 DCB Decachlorobiphenyl (Surr)						
1	11.139	11.137	0.002	22910712H	0.0171	
2	12.765	12.762	0.003	11438867H	0.0162	
					RPD = 5.17	
13 1260 Res 2						
1		0.000			ND	
2		0.000				
14 1260 Res 3						
1		0.000			ND	
2		0.000				
15 1260 Res 1						
1		0.000			ND	
2		0.000				

QC Flag Legend

Review Flags

U - Marked Undetected

Reagents:

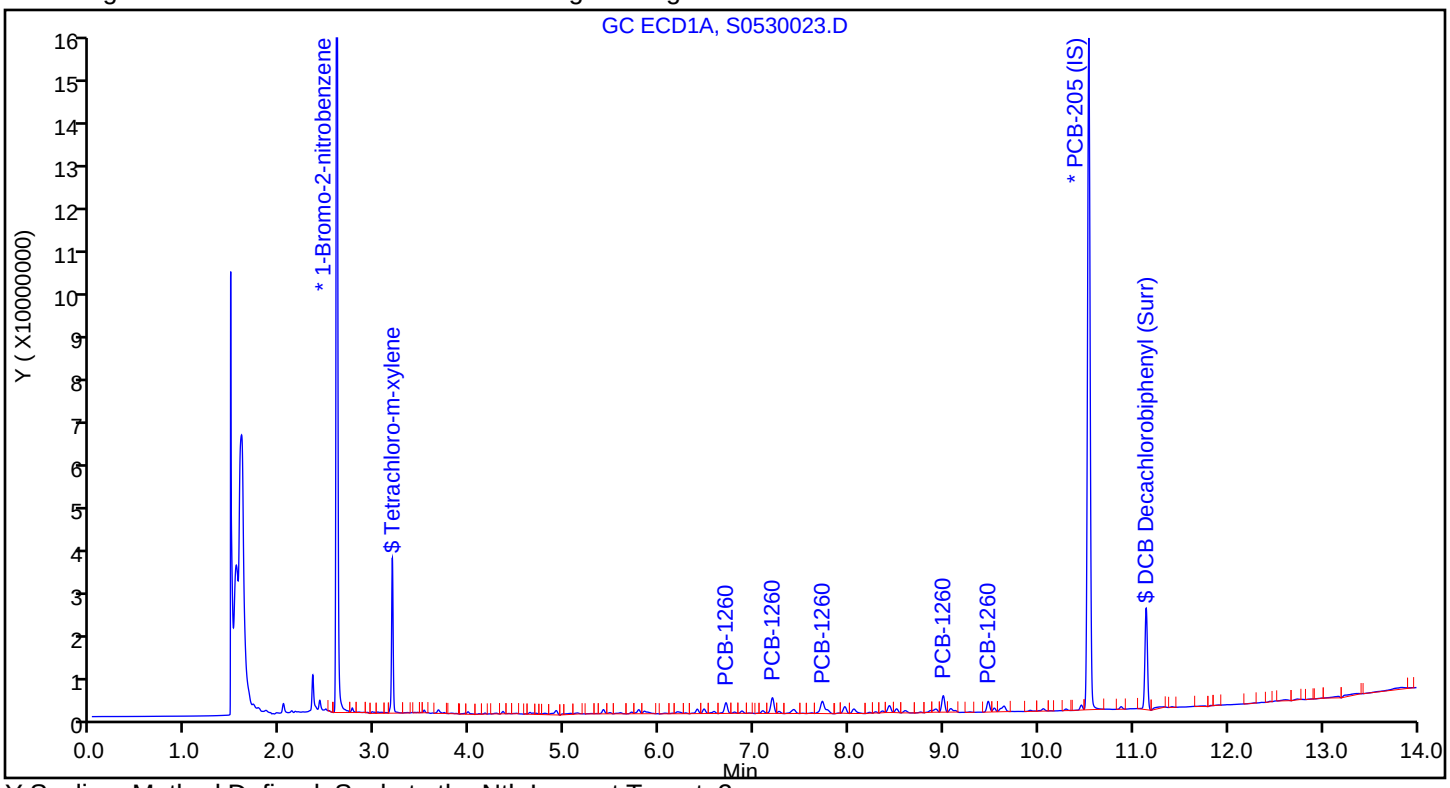
PCBINT_00007 Amount Added: 0.01 Units: mL Run Reagent

Report Date: 31-May-2018 06:28:59 Chrom Revision: 2.2 11-May-2018 08:54:46

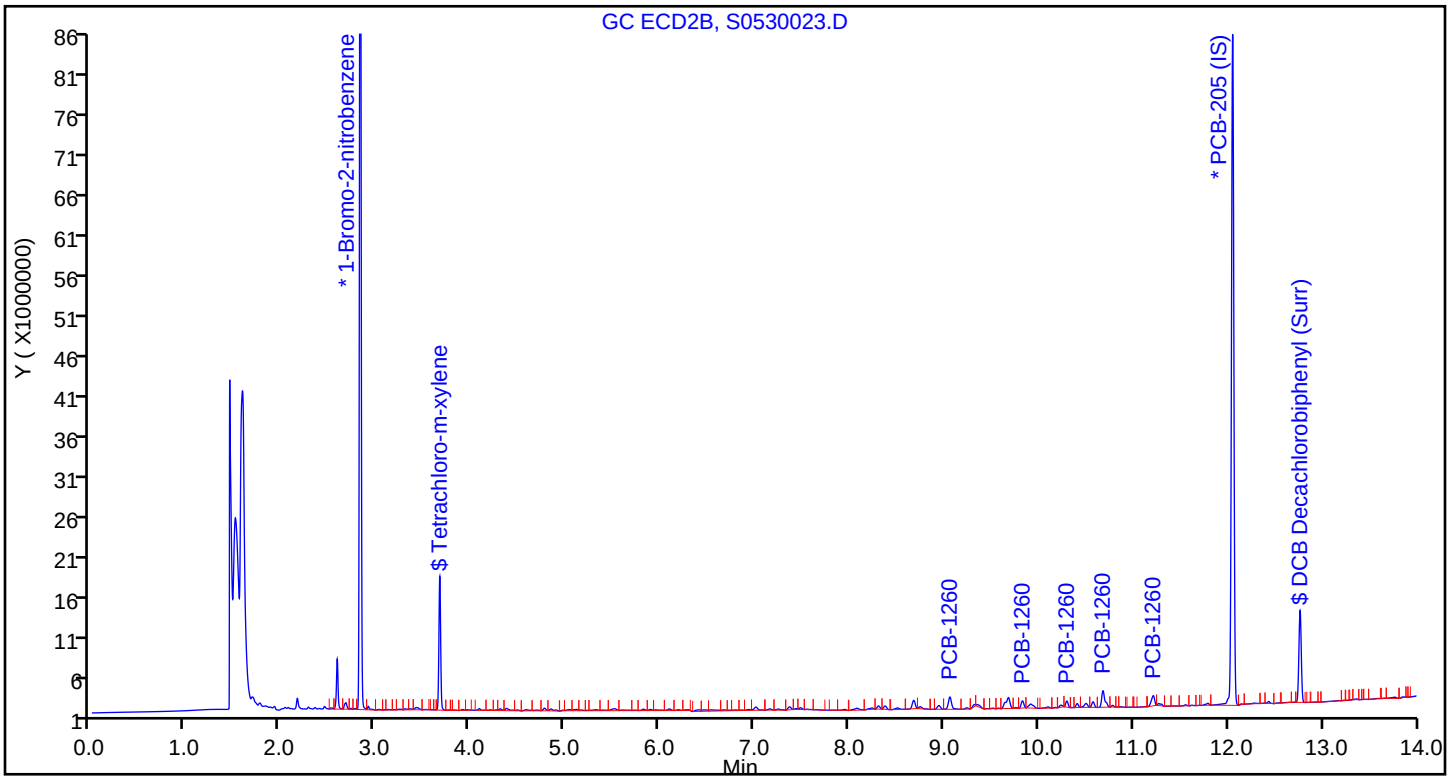
TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CHGC10\20180530-21981.b\S0530023.D				
Injection Date:	30-May-2018 12:21:06	Instrument ID:	CHGC10		
Lims ID:	180-78164-A-3-A	Lab Sample ID:	180-78164-3		
Client ID:	CE-MW-34R3_052218				
Operator ID:		ALS Bottle#:	23	Worklist Smp#:	23
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	IS PCB_CHGC10DUAL	Limit Group:	GCS 8082A ICAL with IS		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



User Disabled Compound Report

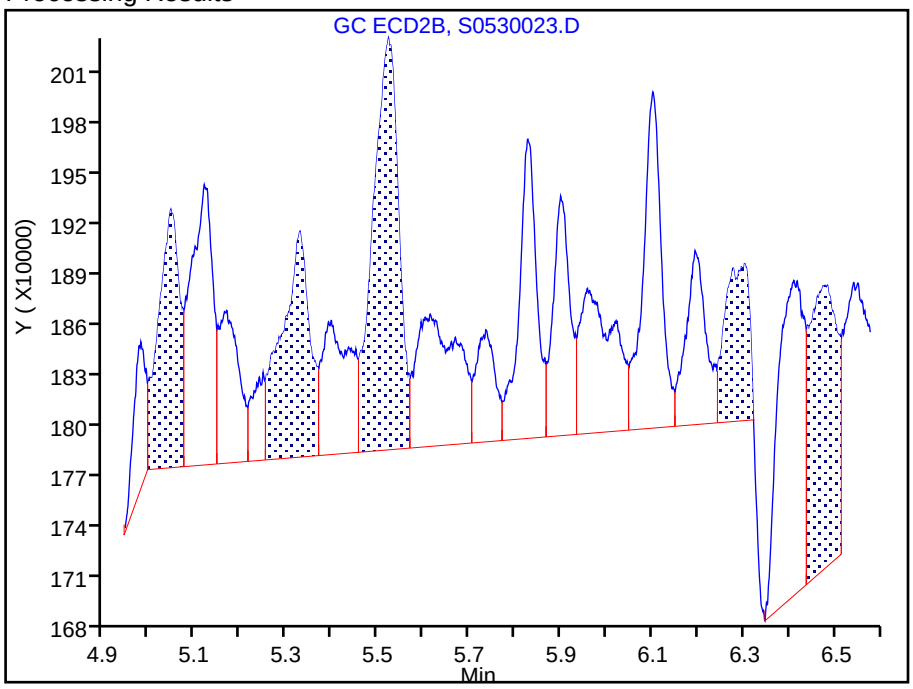
TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CHGC10\20180530-21981.b\S0530023.D		
Injection Date:	30-May-2018 12:21:06	Instrument ID:	CHGC10
Lims ID:	180-78164-A-3-A	Lab Sample ID:	180-78164-3
Client ID:	CE-MW-34R3_052218		
Operator ID:		ALS Bottle#:	23 Worklist Smp#: 23
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	IS PCB_CHGC10DUAL	Limit Group:	GCS 8082A ICAL with IS

6 PCB-1016, Detector: 2, GC ECD2B

Processing Results

Exp RT	RT	Response	Amount
5.03	5.04	154069	0.012078
5.33	5.33	134778	0.003491
5.53	5.52	245543	0.011155
6.27	6.28	91483	0.005138
6.48	6.48	168847	0.011362
		Average =	0.006479



Reviewer: oravecj, 31-May-2018 06:26:35

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

User Disabled Compound Report

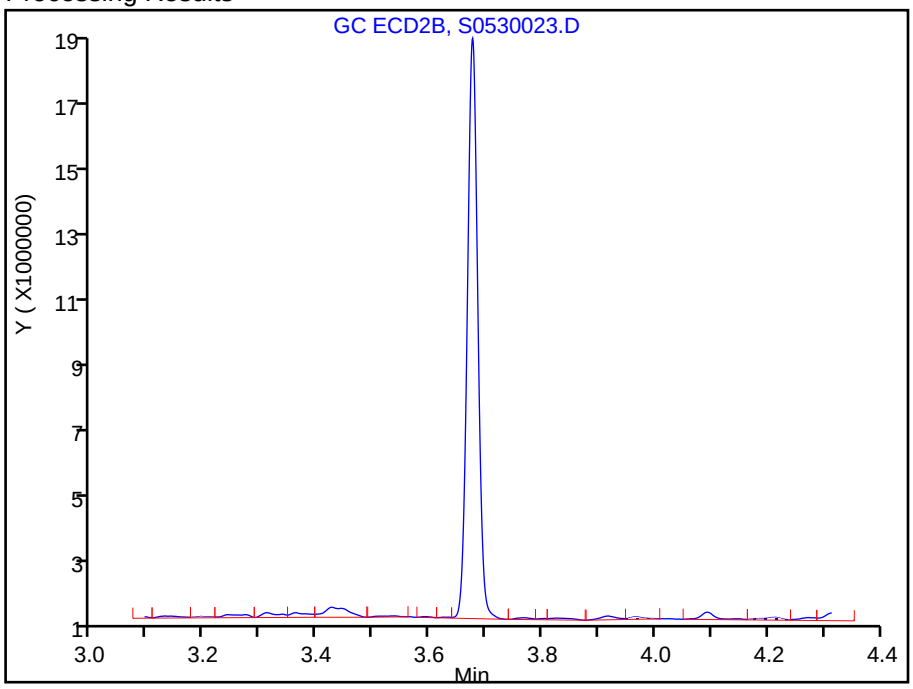
TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CHGC10\20180530-21981.b\S0530023.D		
Injection Date:	30-May-2018 12:21:06	Instrument ID:	CHGC10
Lims ID:	180-78164-A-3-A	Lab Sample ID:	180-78164-3
Client ID:	CE-MW-34R3_052218		
Operator ID:		ALS Bottle#:	23 Worklist Smp#: 23
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	IS PCB_CHGC10DUAL	Limit Group:	GCS 8082A ICAL with IS

3 PCB-1221, Detector: 2, GC ECD2B

Processing Results

Exp RT	RT	Response	Amount
3.21	3.19	40314	-0.008583
3.96	3.97	69676	0.005729
4.20	4.21	80523	0.003174
		Average =	0.000106



Reviewer: oravecj, 31-May-2018 06:26:33

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

User Disabled Compound Report

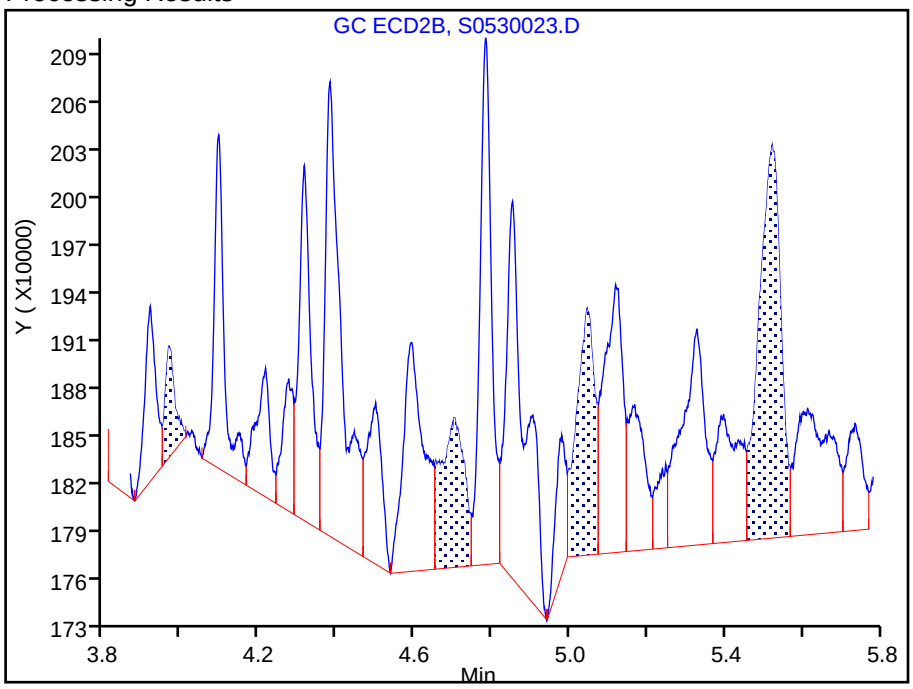
TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CHGC10\20180530-21981.b\S0530023.D		
Injection Date:	30-May-2018 12:21:06	Instrument ID:	CHGC10
Lims ID:	180-78164-A-3-A	Lab Sample ID:	180-78164-3
Client ID:	CE-MW-34R3_052218		
Operator ID:		ALS Bottle#:	23 Worklist Smp#: 23
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	IS PCB_CHGC10DUAL	Limit Group:	GCS 8082A ICAL with IS

4 PCB-1232, Detector: 2, GC ECD2B

Processing Results

Exp RT	RT	Response	Amount
3.97	3.97	69676	0.008830
4.69	4.70	93484	0.008342
5.03	5.04	154069	0.025137
5.52	5.52	245543	0.024911
5.68			
		Average =	0.016805



Reviewer: oravecj, 31-May-2018 06:26:33

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

User Disabled Compound Report

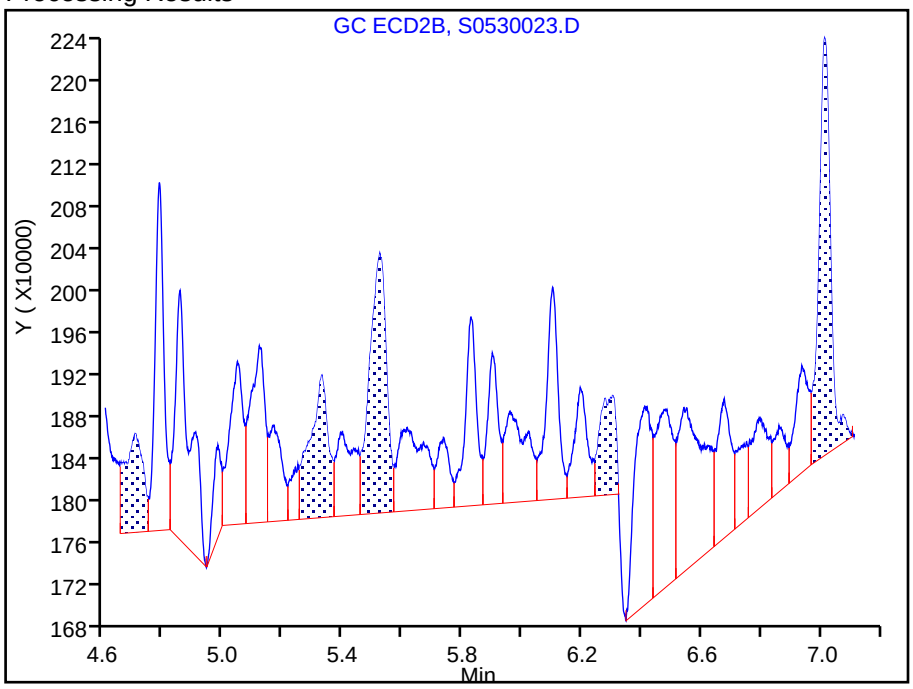
TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CHGC10\20180530-21981.b\S0530023.D		
Injection Date:	30-May-2018 12:21:06	Instrument ID:	CHGC10
Lims ID:	180-78164-A-3-A	Lab Sample ID:	180-78164-3
Client ID:	CE-MW-34R3_052218		
Operator ID:		ALS Bottle#:	23 Worklist Smp#: 23
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	IS PCB_CHGC10DUAL	Limit Group:	GCS 8082A ICAL with IS

5 PCB-1242, Detector: 2, GC ECD2B

Processing Results

Exp RT	RT	Response	Amount
4.69	4.70	93484	0.004573
5.33	5.33	134778	0.004195
5.53	5.52	245543	0.013286
6.27	6.28	91483	0.005980
7.02	7.01	394678	0.025361
		Average =	0.008786



Reviewer: oravecj, 31-May-2018 06:26:34

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

User Disabled Compound Report

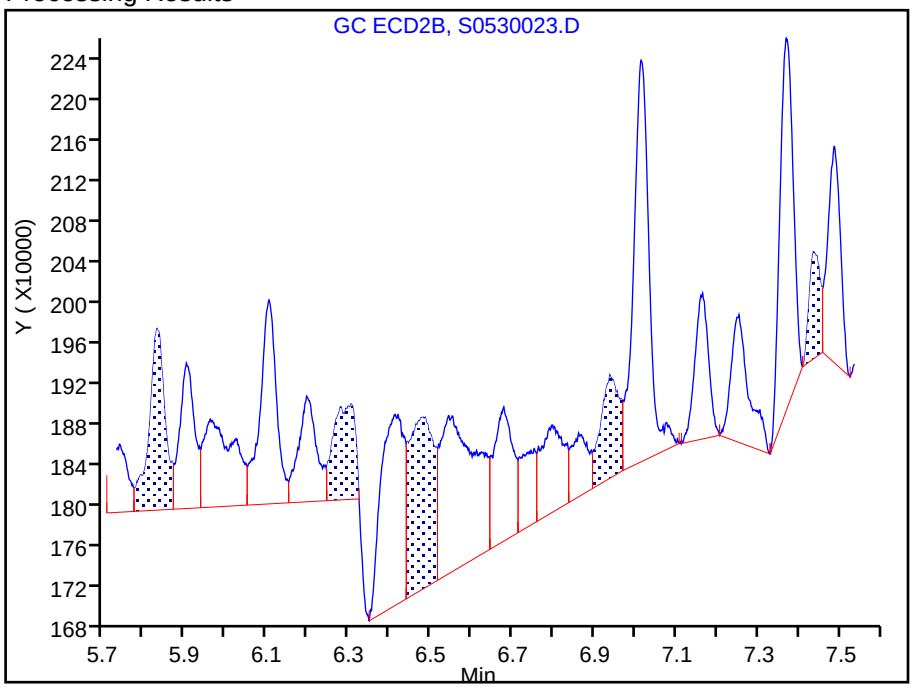
TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180530-21981.b\S0530023.D
Injection Date: 30-May-2018 12:21:06 Instrument ID: CHGC10
Lims ID: 180-78164-A-3-A Lab Sample ID: 180-78164-3
Client ID: CE-MW-34R3_052218
Operator ID: ALS Bottle#: 23 Worklist Smp#: 23
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: IS PCB_CHGC10DUAL Limit Group: GCS 8082A ICAL with IS

7 PCB-1248, Detector: 2, GC ECD2B

Processing Results

Exp RT	RT	Response	Amount
5.82	5.83	178517	0.009008
6.27	6.28	91483	0.003800
6.48	6.48	168847	0.008546
6.93	6.94	101299	0.004061
7.45	7.44	105328	0.005521
		Average =	0.006187



Reviewer: oravecj, 31-May-2018 06:26:35
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

User Disabled Compound Report

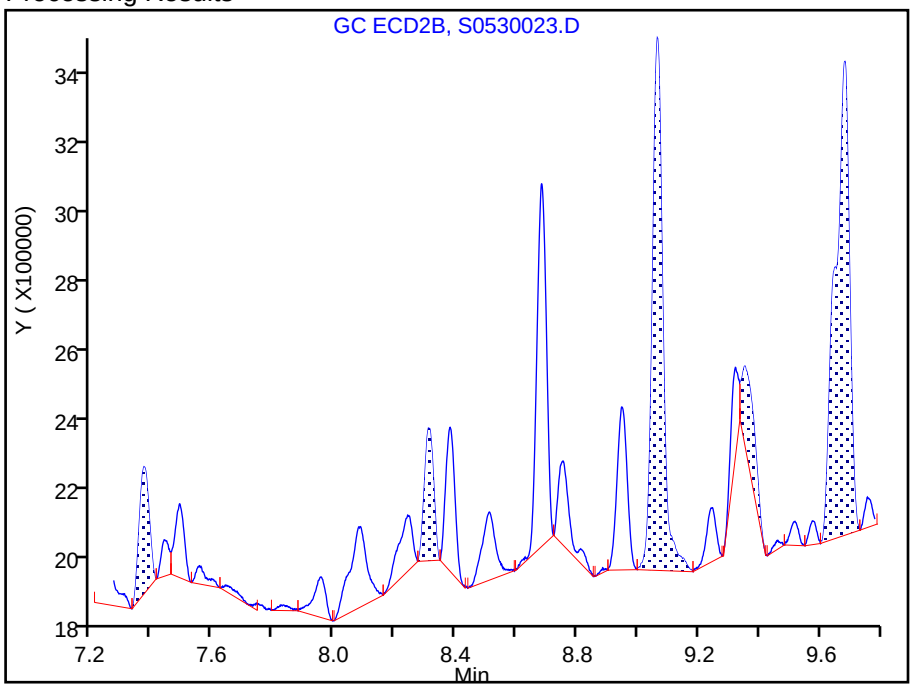
TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CHGC10\20180530-21981.b\S0530023.D				
Injection Date:	30-May-2018 12:21:06	Instrument ID:	CHGC10		
Lims ID:	180-78164-A-3-A	Lab Sample ID:	180-78164-3		
Client ID:	CE-MW-34R3_052218				
Operator ID:		ALS Bottle#:	23	Worklist Smp#:	23
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	IS PCB_CHGC10DUAL	Limit Group:	GCS 8082A ICAL with IS		

8 PCB-1254, Detector: 2, GC ECD2B

Processing Results

Exp RT	RT	Response	Amount
7.36	7.37	366164	0.012328
8.30	8.31	382185	0.011943
9.06	9.07	1532651	0.080294
9.36	9.35	229695	0.009800
9.68	9.68	1364299	0.037929
		Average =	0.023153



Reviewer: oravecj, 31-May-2018 06:26:36

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-78164-1

SDG No.:

Client Sample ID: CE-MW-32R2_052218 | Lab Sample ID: 180-78164-4

Matrix: Water | Lab File ID: S0530024.D

Analysis Method: 8082A | Date Collected: 05/22/2018 17:16

Extraction Method: 3510C | Date Extracted: 05/29/2018 14:00

Sample wt/vol: 960(mL) | Date Analyzed: 05/30/2018 12:39

Con. Extract Vol.: 1.0(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RTX-CLP1 ID: 0.53(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 246135 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	Arochlor 1016	0.0050	U	0.010	0.0050
11104-28-2	Arochlor 1221	0.0060	U	0.010	0.0060
11141-16-5	Arochlor 1232	0.0054	U	0.010	0.0054
53469-21-9	Arochlor 1242	0.0095	U	0.010	0.0095
12672-29-6	Arochlor 1248	0.0031	U	0.010	0.0031
11097-69-1	Arochlor 1254	0.0099	U	0.010	0.0099
11096-82-5	Arochlor 1260	1.7		0.010	0.0041

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl (Surr)	92		46-126
877-09-8	Tetrachloro-m-xylene	70		36-130

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180530-21981.b\S0530024.D
Lims ID: 180-78164-A-4-A
Client ID: CE-MW-32R2_052218
Sample Type: Client
Inject. Date: 30-May-2018 12:39:51 ALS Bottle#: 24 Worklist Smp#: 24
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0021981-024
Operator ID: Instrument ID: CHGC10

Method: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180530-21981.b\IS PCB_CHGC10DUAL.m
Limit Group: GCS 8082A ICAL with IS
Last Update: 31-May-2018 06:28:26 Calib Date: 01-Mar-2018 20:27:10
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\S0301050.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK028

First Level Reviewer: oravecj Date: 31-May-2018 06:27:01

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng	Flags
* 1 1-Bromo-2-nitrobenzene						
1	2.590	2.585	0.005	222850097H	0.1000	
2	2.837	2.831	0.006	143841283H	0.1000	
$ 2 Tetrachloro-m-xylene						
1	3.176	3.173	0.003	34445884H	0.0140	
2	3.676	3.672	0.004	18503687H	0.0144	
					RPD = 2.86	
3 PCB-1221						U
1		3.307			ND	
1		3.433				
1		3.471				
2		3.207				
2		3.964				
2		4.196				
4 PCB-1232						U
1		3.308			ND	
1		3.795				
1		4.001				
1		4.421				
1		4.900				
2		3.966				
2		4.691				
2		5.028				
2		5.525				
2		5.684				

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng	Flags
6	PCB-1016					U
1		3.474			ND	
1		3.796				
1		4.276				
1		4.420				
1		4.901				
2		5.029				
2		5.327				
2		5.526				
2		6.270				
2		6.481				
5	PCB-1242					U
1		3.475			ND	
1		4.278				
1		4.423				
1		4.903				
1		5.466				
2		4.694				
2		5.329				
2		5.528				
2		6.271				
2		7.021				
7	PCB-1248					U
1		4.254			ND	
1		4.629				
1		4.901				
1		5.465				
1		5.784				
2		5.824				
2		6.269				
2		6.482				
2		6.934				
2		7.453				
8	PCB-1254					U
1		5.397			ND	
1		5.771				
1		6.389				
1		6.860				
1		7.184				
2		7.357				
2		8.303				
2		9.058				
2		9.361				
2		9.679				

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng	Flags
10 PCB-1262						U
1		6.694			ND	
1		7.184				
1		7.950				
1		8.422				
1		9.531				
2		8.678				
2		9.826				
2		10.297				
2		10.678				
2		11.205				
9 PCB-1260						
1	6.699	6.696	0.003	110245416H	1.91	
1	7.190	7.186	0.004	164983269H	1.95	
1	7.717	7.715	0.002	98651338H	1.59	
1	8.995	8.992	0.003	161743821H	1.39	
1	9.471	9.469	0.002	90772728H	1.39	
		Average of Peak Amounts =			1.64	
2	9.065	9.060	0.005	75170424H	2.03	
2	9.832	9.828	0.004	46708931H	1.77	
2	10.301	10.298	0.003	34913007H	1.21	
2	10.683	10.679	0.004	95093190H	1.41	
2	11.216	11.212	0.004	53169680H	1.41	
		Average of Peak Amounts =			1.57	
					RPD = 4.78	
11 PCB-1268						U
1		9.533			ND	
1		9.597				
1		9.906				
1		10.870				
2		11.200				
2		11.267				
2		11.620				
2		12.432				
* 46 PCB-205 (IS)						
1	10.535	10.528	0.007	152107451H	0.1000	
2	12.054	12.048	0.006	83428960H	0.1000	
$ 12 DCB Decachlorobiphenyl (Surr)						
1	11.141	11.137	0.004	24729214H	0.0184	
2	12.765	12.762	0.003	12289343H	0.0175	
					RPD = 5.19	
13 1260 Res 2						
1		0.000			ND	
2		0.000				
14 1260 Res 3						
1		0.000			ND	
2		0.000				
15 1260 Res 1						
1		0.000			ND	
2		0.000				

QC Flag Legend

Review Flags

U - Marked Undetected

Reagents:

PCBINT_00007 Amount Added: 0.01 Units: mL Run Reagent

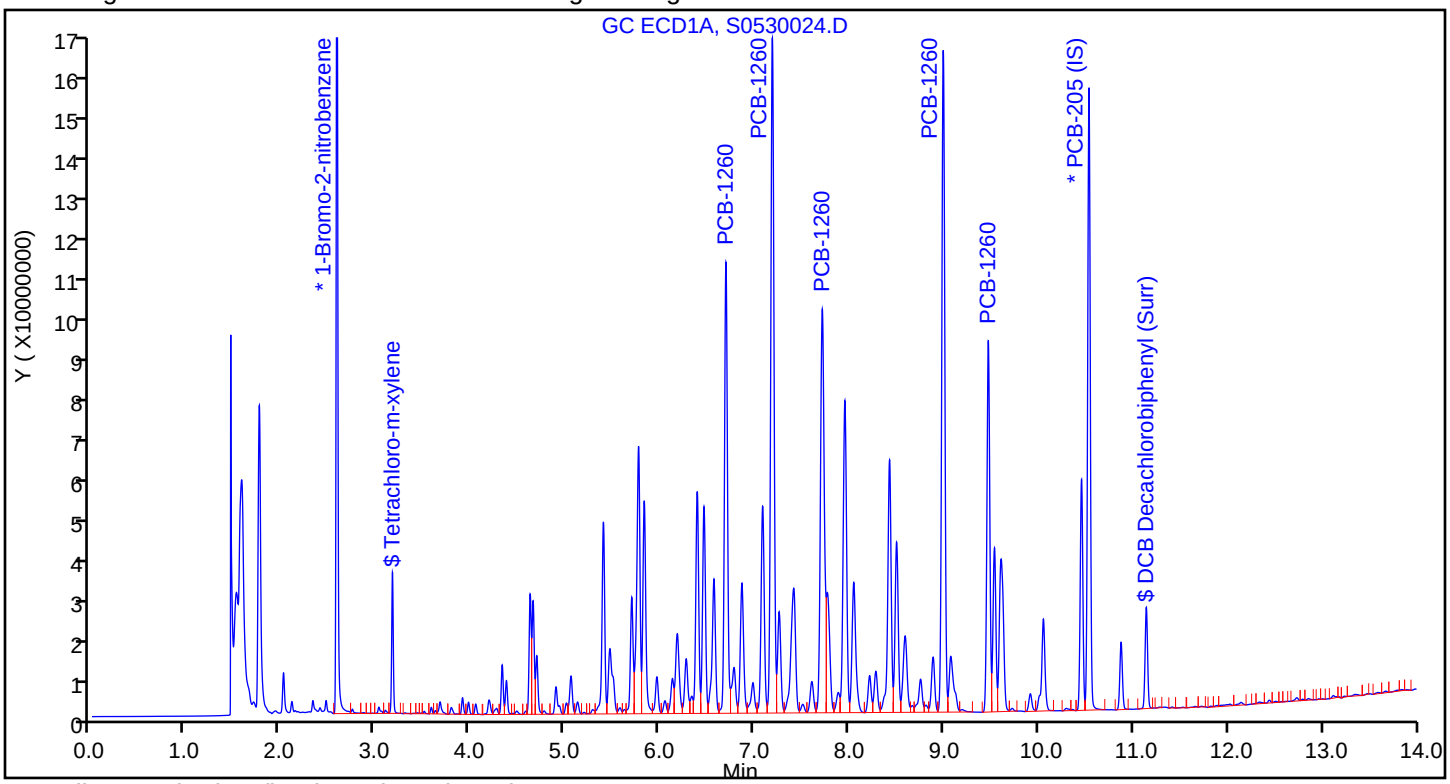
Report Date: 31-May-2018 06:28:56 Chrom Revision: 2.2 11-May-2018 08:54:46

TestAmerica Pittsburgh

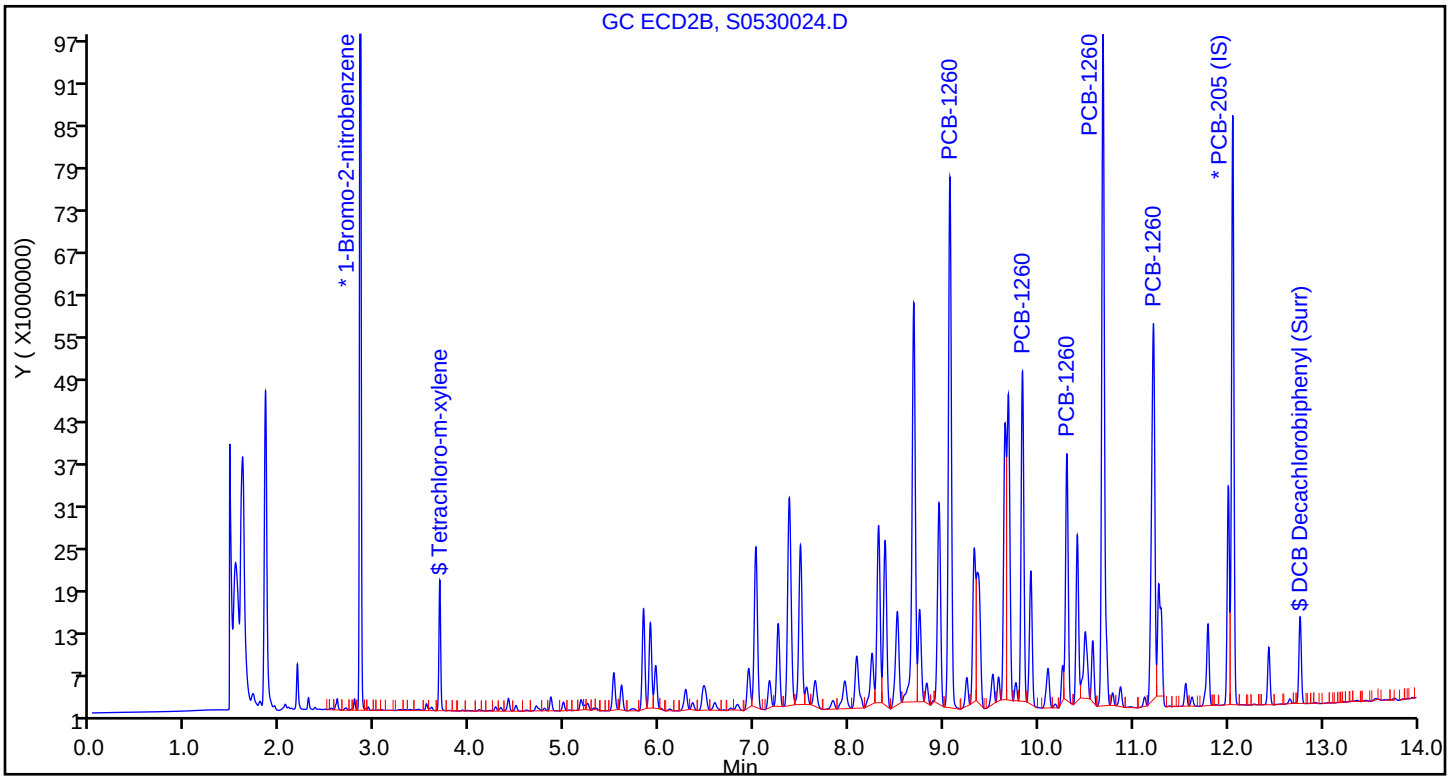
Data File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180530-21981.b\S0530024.D

Injection Date:	30-May-2018 12:39:51	Instrument ID:	CHGC10		
Lims ID:	180-78164-A-4-A	Lab Sample ID:	180-78164-4		
Client ID:	CE-MW-32R2_052218				
Operator ID:		ALS Bottle#:	24	Worklist Smp#:	24
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	IS PCB_CHGC10DUAL	Limit Group:	GCS 8082A ICAL with IS		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



User Disabled Compound Report

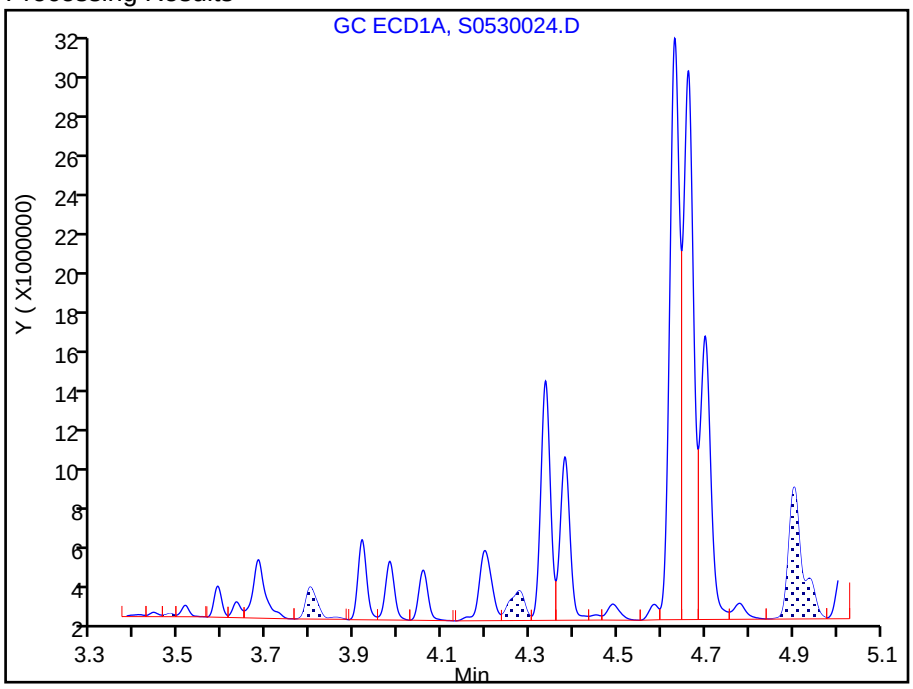
TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CHGC10\20180530-21981.b\S0530024.D		
Injection Date:	30-May-2018 12:39:51	Instrument ID:	CHGC10
Lims ID:	180-78164-A-4-A	Lab Sample ID:	180-78164-4
Client ID:	CE-MW-32R2_052218		
Operator ID:		ALS Bottle#:	24 Worklist Smp#: 24
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	IS PCB_CHGC10DUAL	Limit Group:	GCS 8082A ICAL with IS

6 PCB-1016, Detector: 1, GC ECD1A

Processing Results

Exp RT	RT	Response	Amount
3.47	3.48	156194	0.004270
3.80	3.80	1616980	0.030179
4.28	4.28	1504835	0.019070
4.42			
4.90	4.90	6671836	0.171551
		Average =	0.056268



Reviewer: oravecj, 31-May-2018 06:26:53

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

User Disabled Compound Report

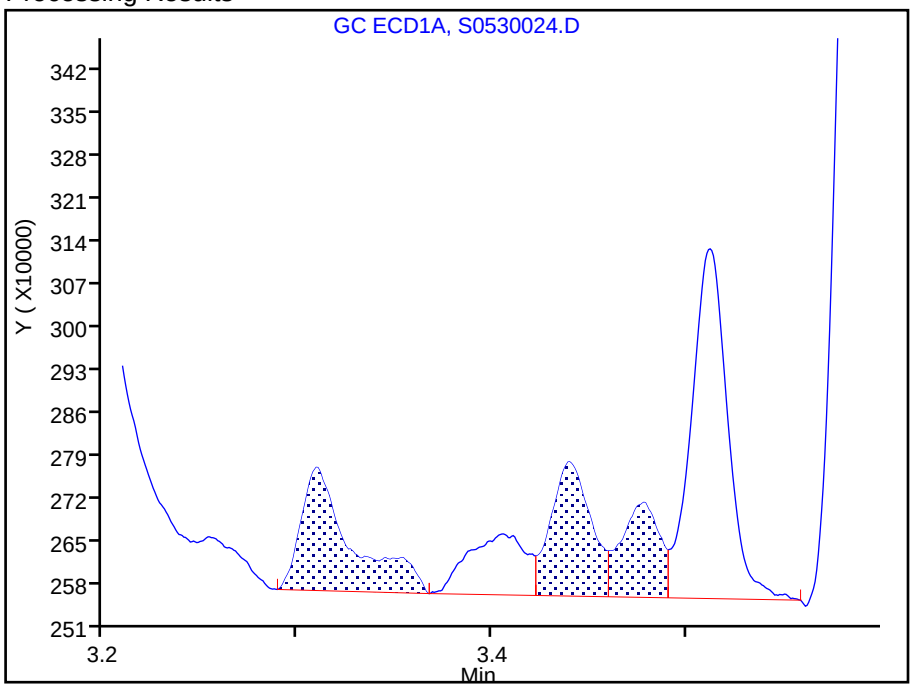
TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CHGC10\20180530-21981.b\S0530024.D		
Injection Date:	30-May-2018 12:39:51	Instrument ID:	CHGC10
Lims ID:	180-78164-A-4-A	Lab Sample ID:	180-78164-4
Client ID:	CE-MW-32R2_052218		
Operator ID:		ALS Bottle#:	24 Worklist Smp#: 24
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	IS PCB_CHGC10DUAL	Limit Group:	GCS 8082A ICAL with IS

3 PCB-1221, Detector: 1, GC ECD1A

Processing Results

Exp RT	RT	Response	Amount
3.31	3.31	202332	0.008622
3.43	3.44	220488	0.009006
3.47	3.48	156194	0.002776
		Average =	0.005589



Reviewer: oravecj, 31-May-2018 06:26:52

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

User Disabled Compound Report

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180530-21981.b\S0530024.D

Injection Date: 30-May-2018 12:39:51 Instrument ID: CHGC10

Lims ID: 180-78164-A-4-A Lab Sample ID: 180-78164-4

Client ID: CE-MW-32R2_052218

Operator ID: ALS Bottle#: 24 Worklist Smp#: 24

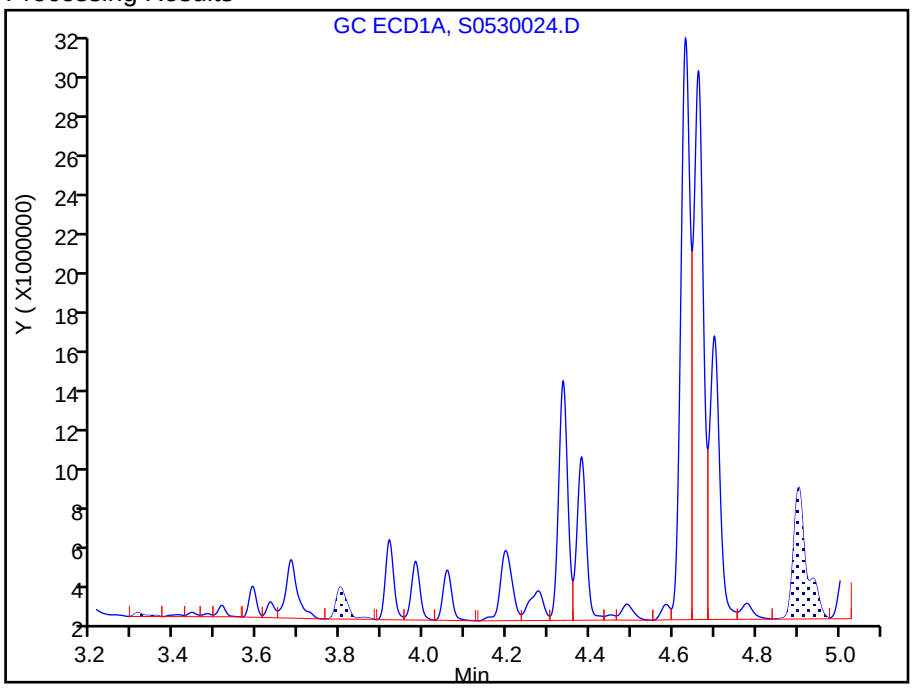
Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: IS PCB_CHGC10DUAL Limit Group: GCS 8082A ICAL with IS

4 PCB-1232, Detector: 1, GC ECD1A

Processing Results

Exp RT	RT	Response	Amount
3.31	3.31	202332	0.012705
3.79	3.80	1616980	0.063103
4.00			
4.42			
4.90	4.90	6671836	0.401071
		Average =	0.154138



Reviewer: oravecj, 31-May-2018 06:26:52

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

User Disabled Compound Report

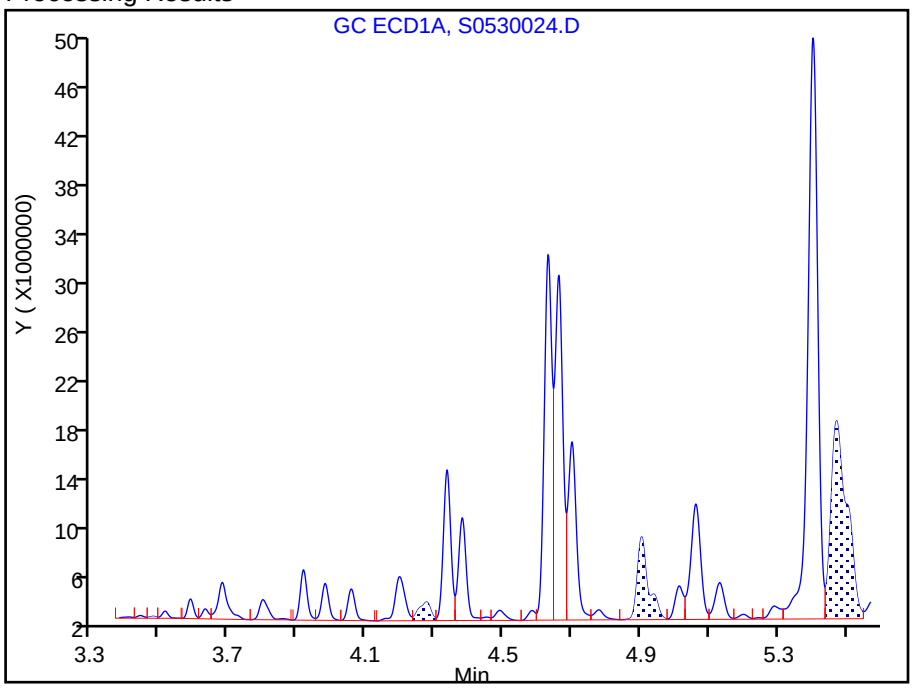
TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CHGC10\20180530-21981.b\S0530024.D		
Injection Date:	30-May-2018 12:39:51	Instrument ID:	CHGC10
Lims ID:	180-78164-A-4-A	Lab Sample ID:	180-78164-4
Client ID:	CE-MW-32R2_052218		
Operator ID:		ALS Bottle#:	24 Worklist Smp#: 24
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	IS PCB_CHGC10DUAL	Limit Group:	GCS 8082A ICAL with IS

5 PCB-1242, Detector: 1, GC ECD1A

Processing Results

Exp RT	RT	Response	Amount
3.48	3.48	156194	0.004796
4.28	4.28	1504835	0.022515
4.42			
4.90	4.90	6671836	0.197404
5.47	5.47	15955206	0.553895
		Average =	0.194652



Reviewer: oravecj, 31-May-2018 06:26:53

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

User Disabled Compound Report

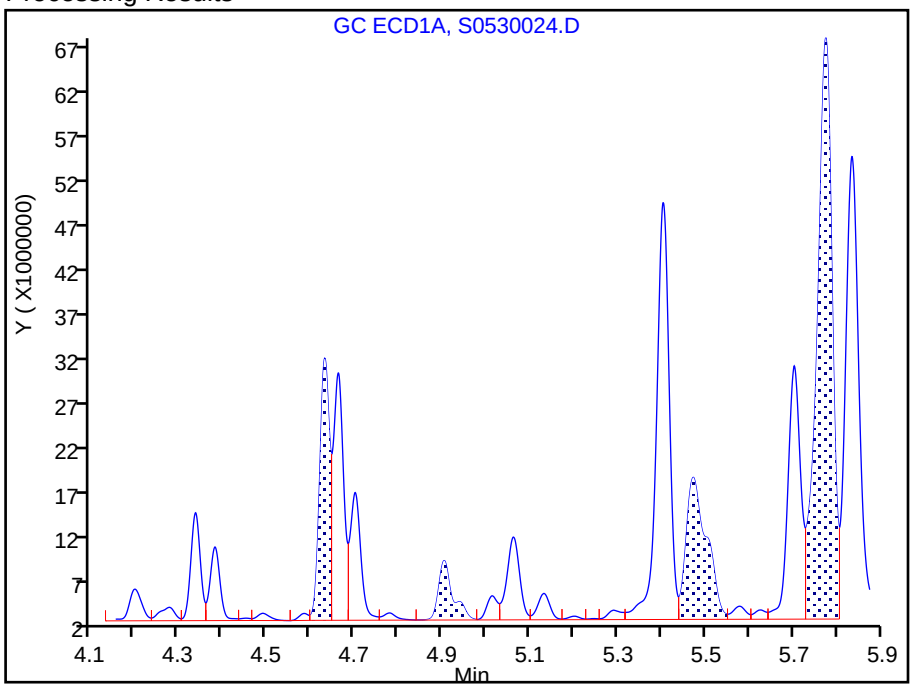
TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CHGC10\20180530-21981.b\S0530024.D		
Injection Date:	30-May-2018 12:39:51	Instrument ID:	CHGC10
Lims ID:	180-78164-A-4-A	Lab Sample ID:	180-78164-4
Client ID:	CE-MW-32R2_052218		
Operator ID:		ALS Bottle#:	24 Worklist Smp#: 24
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	IS PCB_CHGC10DUAL	Limit Group:	GCS 8082A ICAL with IS

7 PCB-1248, Detector: 1, GC ECD1A

Processing Results

Exp RT	RT	Response	Amount
4.25			
4.63	4.63	29443739	0.675087
4.90	4.90	6671836	0.124351
5.47	5.47	15955206	0.310935
5.78	5.78	65267100	1.940726
		Average =	0.306175



Reviewer: oravecj, 31-May-2018 06:26:54

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

User Disabled Compound Report

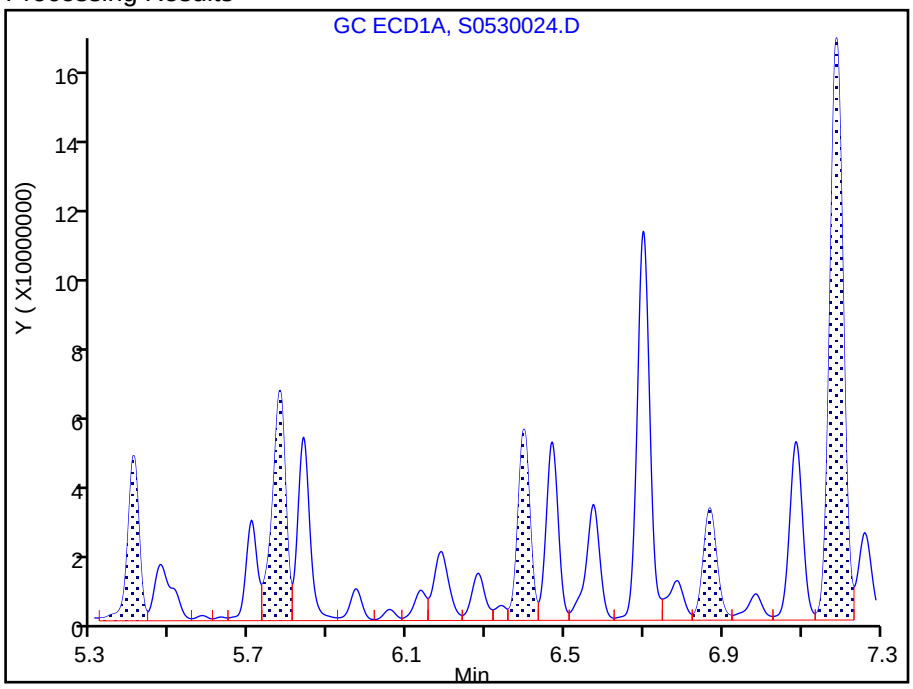
TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CHGC10\20180530-21981.b\S0530024.D		
Injection Date:	30-May-2018 12:39:51	Instrument ID:	CHGC10
Lims ID:	180-78164-A-4-A	Lab Sample ID:	180-78164-4
Client ID:	CE-MW-32R2_052218		
Operator ID:		ALS Bottle#:	24 Worklist Smp#: 24
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	IS PCB_CHGC10DUAL	Limit Group:	GCS 8082A ICAL with IS

8 PCB-1254, Detector: 1, GC ECD1A

Processing Results

Exp RT	RT	Response	Amount
5.40	5.40	46817205	0.842645
5.77	5.78	65267100	0.937520
6.39	6.40	54165778	0.603689
6.86	6.87	31778796	0.545797
7.18	7.19	164983269	3.041230
		Average =	1.194176



Reviewer: oravecj, 31-May-2018 06:26:55

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh Job No.: 180-78164-1

SDG No.:

Client Sample ID: CE-MW-32R2_052218 Lab Sample ID: 180-78164-4

Matrix: Water Lab File ID: S0530024.D

Analysis Method: 8082A Date Collected: 05/22/2018 17:16

Extraction Method: 3510C Date Extracted: 05/29/2018 14:00

Sample wt/vol: 960(mL) Date Analyzed: 05/30/2018 12:39

Con. Extract Vol.: 1.0(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: RTX-CLP2 ID: 0.53(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 246135 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl (Surr)	87		46-126
877-09-8	Tetrachloro-m-xylene	72		36-130

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180530-21981.b\S0530024.D
Lims ID: 180-78164-A-4-A
Client ID: CE-MW-32R2_052218
Sample Type: Client
Inject. Date: 30-May-2018 12:39:51 ALS Bottle#: 24 Worklist Smp#: 24
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0021981-024
Operator ID: Instrument ID: CHGC10

Method: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180530-21981.b\IS PCB_CHGC10DUAL.m
Limit Group: GCS 8082A ICAL with IS
Last Update: 31-May-2018 06:28:26 Calib Date: 01-Mar-2018 20:27:10
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\S0301050.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK028

First Level Reviewer: oravecj Date: 31-May-2018 06:27:01

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng	Flags
* 1 1-Bromo-2-nitrobenzene						
1	2.590	2.585	0.005	222850097H	0.1000	
2	2.837	2.831	0.006	143841283H	0.1000	
$ 2 Tetrachloro-m-xylene						
1	3.176	3.173	0.003	34445884H	0.0140	
2	3.676	3.672	0.004	18503687H	0.0144	
				RPD = 2.86		
3 PCB-1221						U
1		3.307		ND		
1		3.433				
1		3.471				
2		3.207				
2		3.964				
2		4.196				
4 PCB-1232						U
1		3.308		ND		
1		3.795				
1		4.001				
1		4.421				
1		4.900				
2		3.966				
2		4.691				
2		5.028				
2		5.525				
2		5.684				

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng	Flags
6	PCB-1016					U
1		3.474			ND	
1		3.796				
1		4.276				
1		4.420				
1		4.901				
2		5.029				
2		5.327				
2		5.526				
2		6.270				
2		6.481				
5	PCB-1242					U
1		3.475			ND	
1		4.278				
1		4.423				
1		4.903				
1		5.466				
2		4.694				
2		5.329				
2		5.528				
2		6.271				
2		7.021				
7	PCB-1248					U
1		4.254			ND	
1		4.629				
1		4.901				
1		5.465				
1		5.784				
2		5.824				
2		6.269				
2		6.482				
2		6.934				
2		7.453				
8	PCB-1254					U
1		5.397			ND	
1		5.771				
1		6.389				
1		6.860				
1		7.184				
2		7.357				
2		8.303				
2		9.058				
2		9.361				
2		9.679				

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng	Flags
10 PCB-1262						U
1		6.694			ND	
1		7.184				
1		7.950				
1		8.422				
1		9.531				
2		8.678				
2		9.826				
2		10.297				
2		10.678				
2		11.205				
9 PCB-1260						
1	6.699	6.696	0.003	110245416H	1.91	
1	7.190	7.186	0.004	164983269H	1.95	
1	7.717	7.715	0.002	98651338H	1.59	
1	8.995	8.992	0.003	161743821H	1.39	
1	9.471	9.469	0.002	90772728H	1.39	
		Average of Peak Amounts =			1.64	
2	9.065	9.060	0.005	75170424H	2.03	
2	9.832	9.828	0.004	46708931H	1.77	
2	10.301	10.298	0.003	34913007H	1.21	
2	10.683	10.679	0.004	95093190H	1.41	
2	11.216	11.212	0.004	53169680H	1.41	
		Average of Peak Amounts =			1.57	
					RPD = 4.78	
11 PCB-1268						U
1		9.533			ND	
1		9.597				
1		9.906				
1		10.870				
2		11.200				
2		11.267				
2		11.620				
2		12.432				
* 46 PCB-205 (IS)						
1	10.535	10.528	0.007	152107451H	0.1000	
2	12.054	12.048	0.006	83428960H	0.1000	
$ 12 DCB Decachlorobiphenyl (Surr)						
1	11.141	11.137	0.004	24729214H	0.0184	
2	12.765	12.762	0.003	12289343H	0.0175	
					RPD = 5.19	
13 1260 Res 2						
1		0.000			ND	
2		0.000				
14 1260 Res 3						
1		0.000			ND	
2		0.000				
15 1260 Res 1						
1		0.000			ND	
2		0.000				

QC Flag Legend

Review Flags

U - Marked Undetected

Reagents:

PCBINT_00007	Amount Added:	0.01	Units: mL	Run Reagent

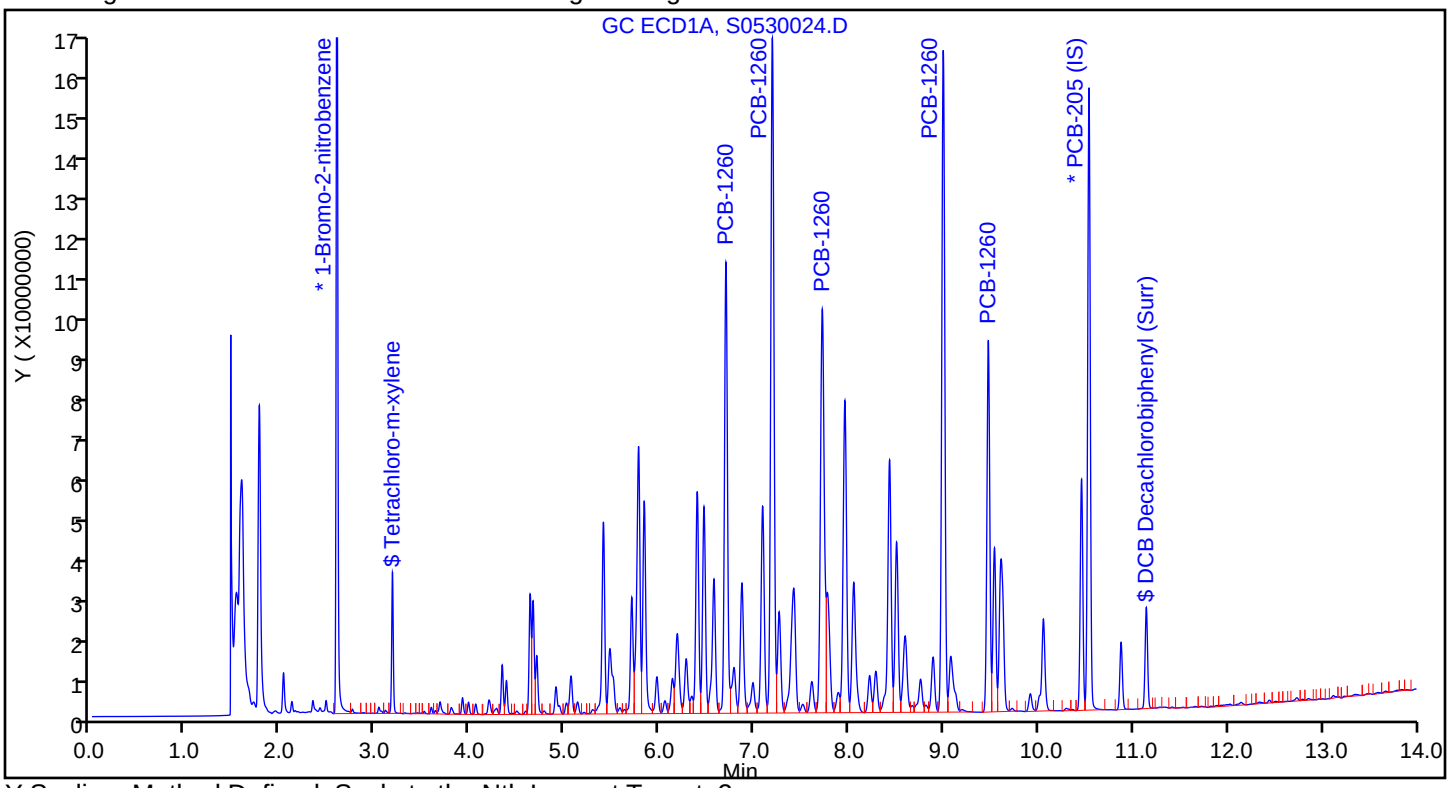
Report Date: 31-May-2018 06:28:57 Chrom Revision: 2.2 11-May-2018 08:54:46

TestAmerica Pittsburgh

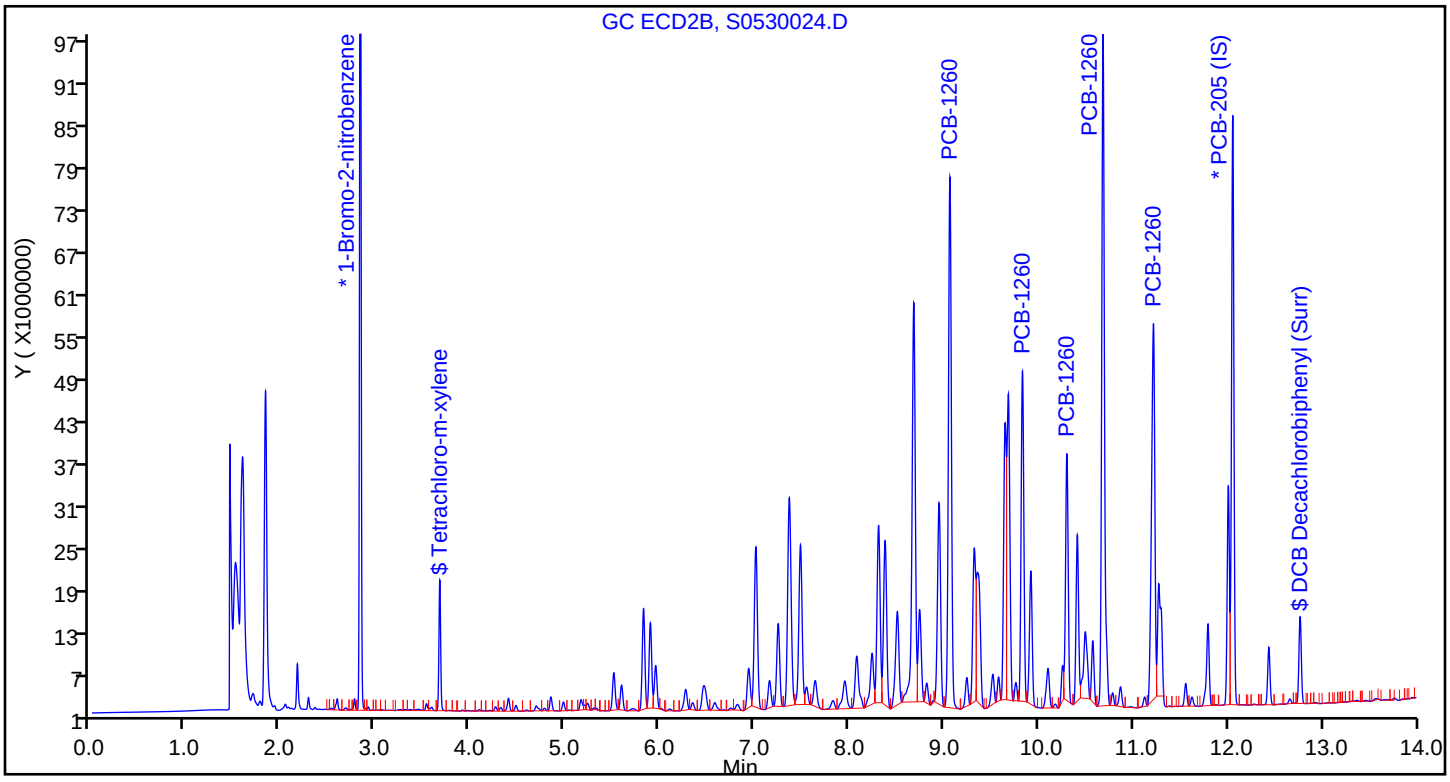
Data File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180530-21981.b\S0530024.D

Injection Date:	30-May-2018 12:39:51	Instrument ID:	CHGC10		
Lims ID:	180-78164-A-4-A	Lab Sample ID:	180-78164-4		
Client ID:	CE-MW-32R2_052218				
Operator ID:		ALS Bottle#:	24	Worklist Smp#:	24
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	IS PCB_CHGC10DUAL	Limit Group:	GCS 8082A ICAL with IS		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



User Disabled Compound Report

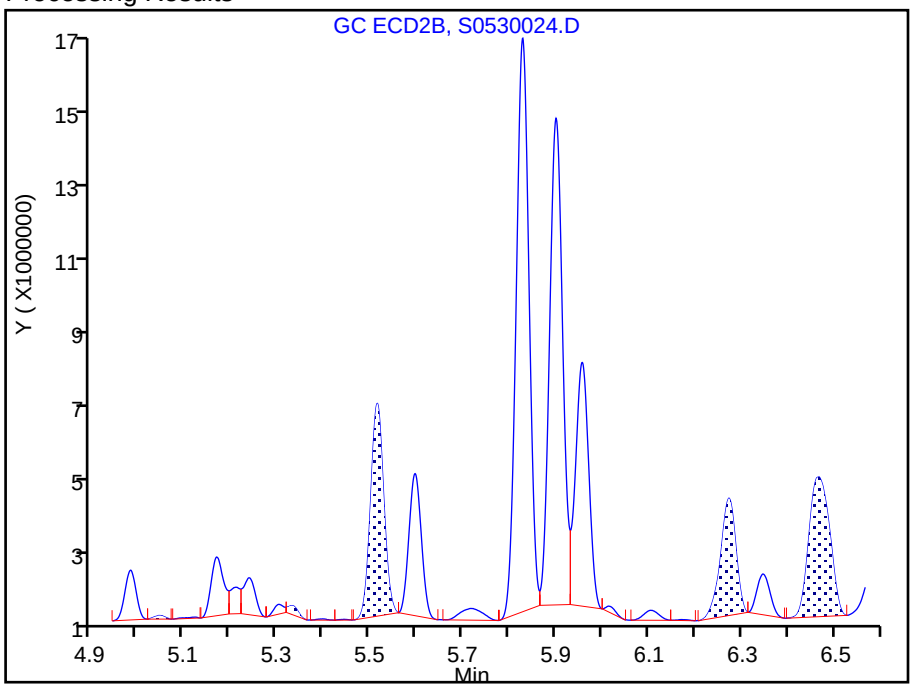
TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CHGC10\20180530-21981.b\S0530024.D		
Injection Date:	30-May-2018 12:39:51	Instrument ID:	CHGC10
Lims ID:	180-78164-A-4-A	Lab Sample ID:	180-78164-4
Client ID:	CE-MW-32R2_052218		
Operator ID:		ALS Bottle#:	24 Worklist Smp#: 24
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	IS PCB_CHGC10DUAL	Limit Group:	GCS 8082A ICAL with IS

6 PCB-1016, Detector: 2, GC ECD2B

Processing Results

Exp RT	RT	Response	Amount
5.03	5.04	89112	0.006905
5.33	5.33	220526	0.005647
5.53	5.51	5285063	0.237339
6.27	6.27	2916794	0.161915
6.48	6.47	3472298	0.230960
		Average =	0.056268



Reviewer: oravecj, 31-May-2018 06:26:53

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

User Disabled Compound Report

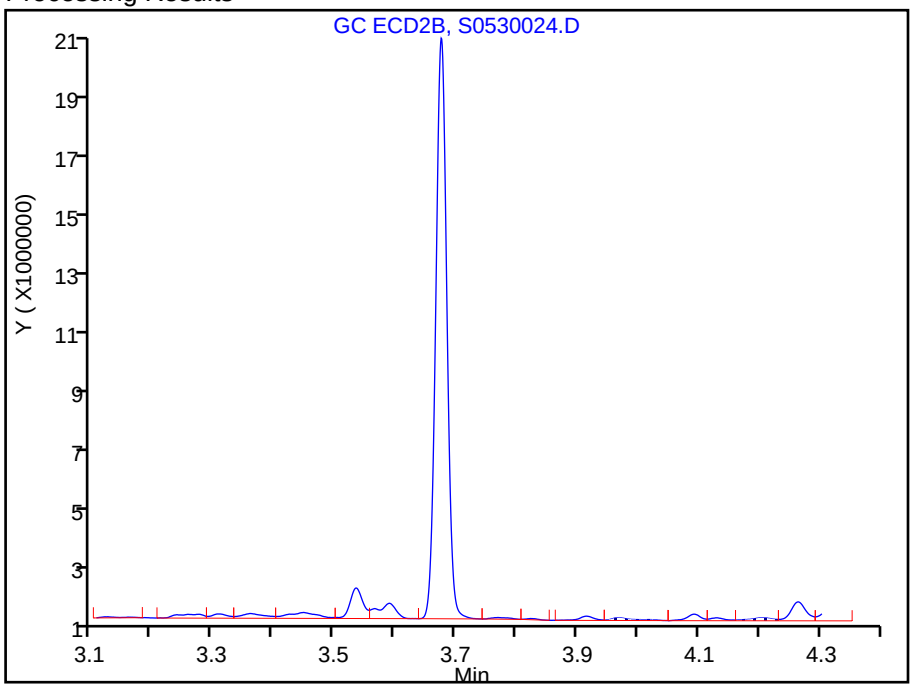
TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CHGC10\20180530-21981.b\S0530024.D		
Injection Date:	30-May-2018 12:39:51	Instrument ID:	CHGC10
Lims ID:	180-78164-A-4-A	Lab Sample ID:	180-78164-4
Client ID:	CE-MW-32R2_052218		
Operator ID:		ALS Bottle#:	24 Worklist Smp#: 24
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	IS PCB_CHGC10DUAL	Limit Group:	GCS 8082A ICAL with IS

3 PCB-1221, Detector: 2, GC ECD2B

Processing Results

Exp RT	RT	Response	Amount
3.21			
3.96	3.97	91085	0.007403
4.20	4.20	96875	0.003774
		Average =	0.005589



Reviewer: oravecj, 31-May-2018 06:26:52

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

User Disabled Compound Report

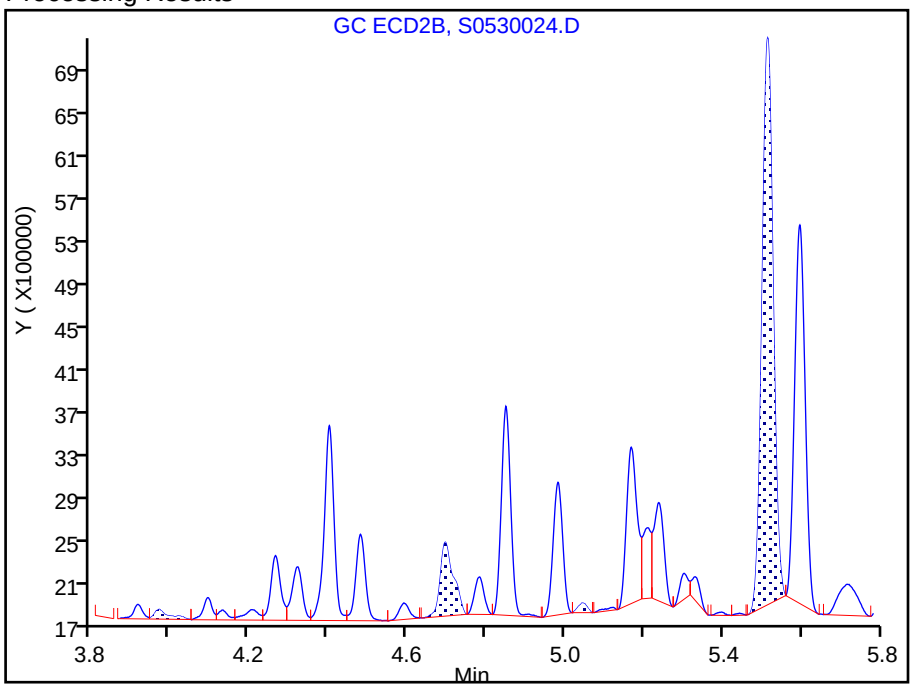
TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180530-21981.b\S0530024.D
Injection Date: 30-May-2018 12:39:51 Instrument ID: CHGC10
Lims ID: 180-78164-A-4-A Lab Sample ID: 180-78164-4
Client ID: CE-MW-32R2_052218
Operator ID: ALS Bottle#: 24 Worklist Smp#: 24
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: IS PCB_CHGC10DUAL Limit Group: GCS 8082A ICAL with IS

4 PCB-1232, Detector: 2, GC ECD2B

Processing Results

Exp RT	RT	Response	Amount
3.97	3.97	91085	0.011410
4.69	4.70	688978	0.060775
5.03	5.04	89112	0.014371
5.52	5.51	5285063	0.529995
5.68			
		Average =	0.154138



Reviewer: oravecj, 31-May-2018 06:26:52
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

User Disabled Compound Report

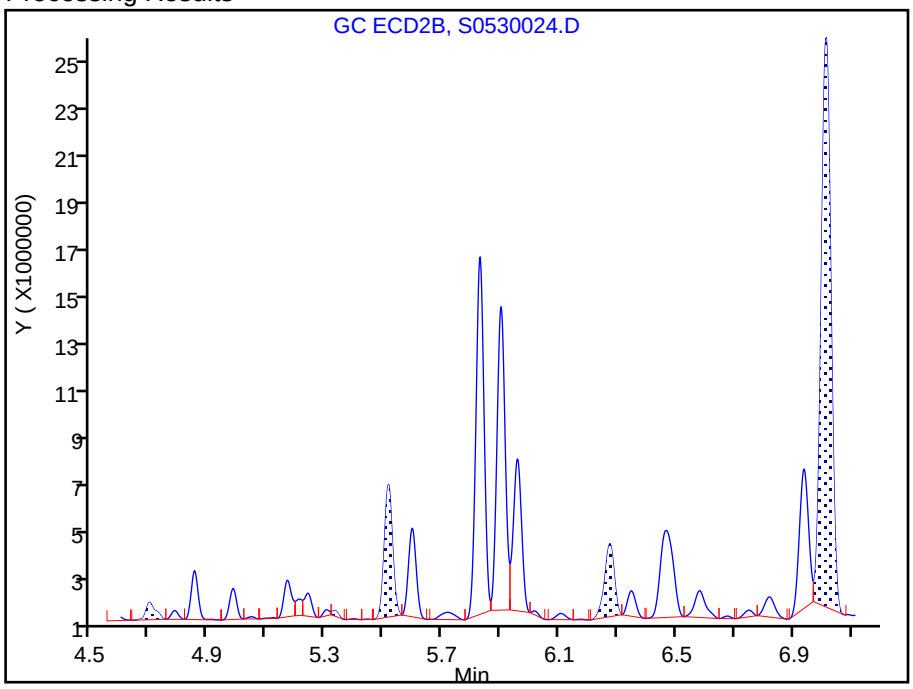
TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CHGC10\20180530-21981.b\S0530024.D		
Injection Date:	30-May-2018 12:39:51	Instrument ID:	CHGC10
Lims ID:	180-78164-A-4-A	Lab Sample ID:	180-78164-4
Client ID:	CE-MW-32R2_052218		
Operator ID:		ALS Bottle#:	24 Worklist Smp#: 24
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	IS PCB_CHGC10DUAL	Limit Group:	GCS 8082A ICAL with IS

5 PCB-1242, Detector: 2, GC ECD2B

Processing Results

Exp RT	RT	Response	Amount
4.69	4.70	688978	0.033318
5.33	5.33	220526	0.006785
5.53	5.51	5285063	0.282672
6.27	6.27	2916794	0.188468
7.02	7.02	22708745	1.442407
		Average =	0.194652



Reviewer: oravecj, 31-May-2018 06:26:53

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

User Disabled Compound Report

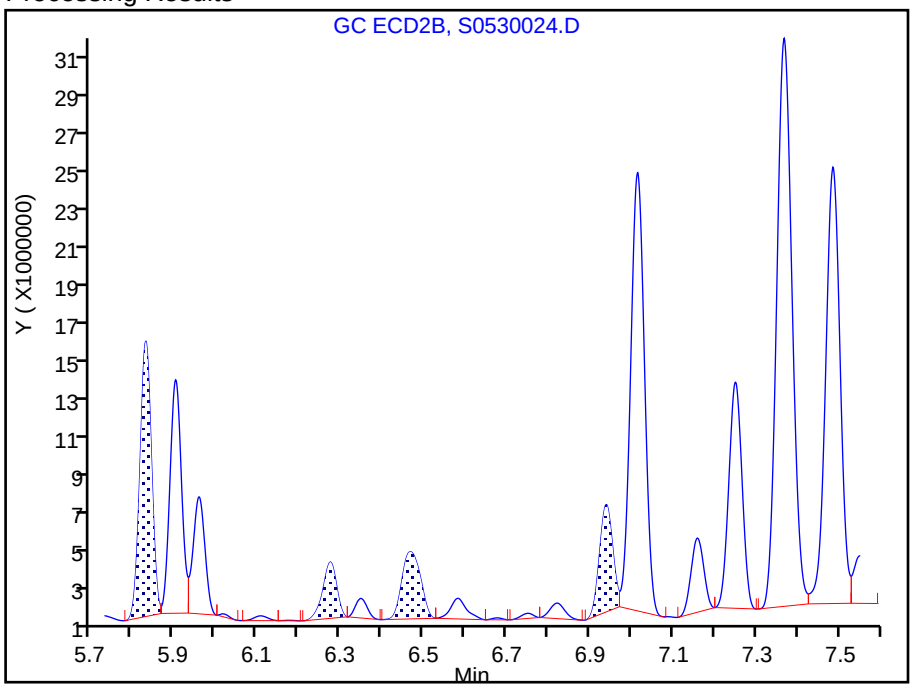
TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CHGC10\20180530-21981.b\S0530024.D		
Injection Date:	30-May-2018 12:39:51	Instrument ID:	CHGC10
Lims ID:	180-78164-A-4-A	Lab Sample ID:	180-78164-4
Client ID:	CE-MW-32R2_052218		
Operator ID:		ALS Bottle#:	24 Worklist Smp#: 24
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	IS PCB_CHGC10DUAL	Limit Group:	GCS 8082A ICAL with IS

7 PCB-1248, Detector: 2, GC ECD2B

Processing Results

Exp RT	RT	Response	Amount
5.82	5.83	14255585	0.711043
6.27	6.27	2916794	0.119762
6.48	6.47	3472298	0.173717
6.93	6.94	5556683	0.220177
7.45			
		Average =	0.306175



Reviewer: oravecj, 31-May-2018 06:26:54

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

User Disabled Compound Report

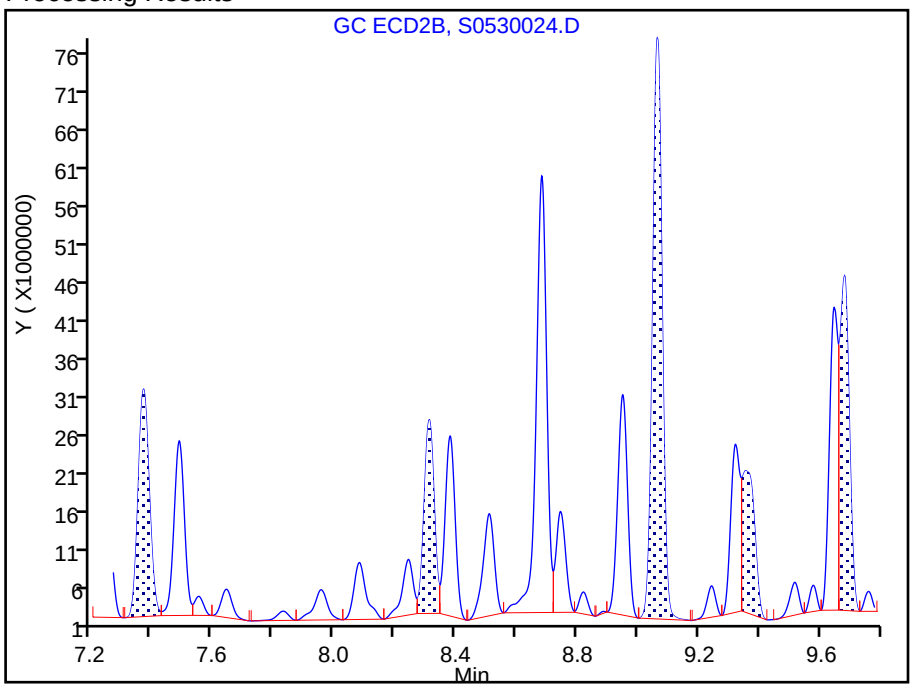
TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CHGC10\20180530-21981.b\S0530024.D		
Injection Date:	30-May-2018 12:39:51	Instrument ID:	CHGC10
Lims ID:	180-78164-A-4-A	Lab Sample ID:	180-78164-4
Client ID:	CE-MW-32R2_052218		
Operator ID:		ALS Bottle#:	24 Worklist Smp#: 24
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	IS PCB_CHGC10DUAL	Limit Group:	GCS 8082A ICAL with IS

8 PCB-1254, Detector: 2, GC ECD2B

Processing Results

Exp RT	RT	Response	Amount
7.36	7.37	29432771	0.991146
8.30	8.31	25068029	0.783538
9.06	9.06	75170424	3.939076
9.36	9.36	18335773	0.782522
9.68	9.68	43297815	1.204021
	Average =		1.194176



Reviewer: oravecj, 31-May-2018 06:26:55

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-78164-1

SDG No.:

Client Sample ID: CE-MW-31R2_052318 | Lab Sample ID: 180-78164-5

Matrix: Water | Lab File ID: S0530025.D

Analysis Method: 8082A | Date Collected: 05/23/2018 14:26

Extraction Method: 3510C | Date Extracted: 05/29/2018 14:00

Sample wt/vol: 980(mL) | Date Analyzed: 05/30/2018 12:58

Con. Extract Vol.: 1.0(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RTX-CLP1 ID: 0.53(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 246135 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	Arochlor 1016	0.0049	U	0.010	0.0049
11104-28-2	Arochlor 1221	0.0058	U	0.010	0.0058
11141-16-5	Arochlor 1232	0.0053	U	0.010	0.0053
53469-21-9	Arochlor 1242	0.0093	U	0.010	0.0093
12672-29-6	Arochlor 1248	0.0031	U	0.010	0.0031
11097-69-1	Arochlor 1254	0.0097	U	0.010	0.0097
11096-82-5	Arochlor 1260	0.28		0.010	0.0040

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl (Surr)	86		46-126
877-09-8	Tetrachloro-m-xylene	64		36-130

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180530-21981.b\S0530025.D
Lims ID: 180-78164-A-5-A
Client ID: CE-MW-31R2_052318
Sample Type: Client
Inject. Date: 30-May-2018 12:58:37 ALS Bottle#: 25 Worklist Smp#: 25
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0021981-025
Operator ID: Instrument ID: CHGC10

Method: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180530-21981.b\IS PCB_CHGC10DUAL.m
Limit Group: GCS 8082A ICAL with IS
Last Update: 31-May-2018 06:28:26 Calib Date: 01-Mar-2018 20:27:10
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\S0301050.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK028

First Level Reviewer: oravecj Date: 31-May-2018 06:27:16

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng	Flags
* 1 1-Bromo-2-nitrobenzene						
1	2.589	2.585	0.004	224064732H	0.1000	
2	2.836	2.831	0.005	144480724H	0.1000	
$ 2 Tetrachloro-m-xylene						
1	3.175	3.173	0.002	31761827H	0.0128	
2	3.675	3.672	0.003	17082885H	0.0132	
					RPD = 3.08	
3 PCB-1221						U
1		3.307			ND	
1		3.433				
1		3.471				
2		3.207				
2		3.964				
2		4.196				
4 PCB-1232						U
1		3.308			ND	
1		3.795				
1		4.001				
1		4.421				
1		4.900				
2		3.966				
2		4.691				
2		5.028				
2		5.525				
2		5.684				

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng	Flags
6	PCB-1016					U
1		3.474			ND	
1		3.796				
1		4.276				
1		4.420				
1		4.901				
2		5.029				
2		5.327				
2		5.526				
2		6.270				
2		6.481				
5	PCB-1242					
1		3.475			ND	
1		4.278				
1		4.423				
1		4.903				
1		5.466				
2		4.694				
2		5.329				
2		5.528				
2		6.271				
2		7.021				
7	PCB-1248					U
1		4.254			ND	
1		4.629				
1		4.901				
1		5.465				
1		5.784				
2		5.824				
2		6.269				
2		6.482				
2		6.934				
2		7.453				
8	PCB-1254					U
1		5.397			ND	
1		5.771				
1		6.389				
1		6.860				
1		7.184				
2		7.357				
2		8.303				
2		9.058				
2		9.361				
2		9.679				

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng	Flags
10 PCB-1262						U
1		6.694			ND	
1		7.184				
1		7.950				
1		8.422				
1		9.531				
2		8.678				
2		9.826				
2		10.297				
2		10.678				
2		11.205				
9 PCB-1260						
1	6.699	6.696	0.003	14846323H	0.2620	
1	7.190	7.186	0.004	23780378H	0.2868	
1	7.718	7.715	0.003	19262166H	0.3161	
1	8.996	8.992	0.004	27028979H	0.2371	
1	9.470	9.469	0.001	15918519H	0.2492	
		Average of Peak Amounts =			0.2702	
2	9.065	9.060	0.005	10566799H	0.2846	
2	9.832	9.828	0.004	5626293H	0.2127	
2	10.302	10.298	0.004	5626917H	0.1944	
2	10.683	10.679	0.004	15935247H	0.2354	
2	11.215	11.212	0.003	8984965H	0.2372	
		Average of Peak Amounts =			0.2329	
					RPD = 14.85	
11 PCB-1268						U
1		9.533			ND	
1		9.597				
1		9.906				
1		10.870				
2		11.200				
2		11.267				
2		11.620				
2		12.432				
* 46 PCB-205 (IS)						
1	10.534	10.528	0.005	148998585H	0.1000	
2	12.053	12.048	0.005	83777715H	0.1000	
$ 12 DCB Decachlorobiphenyl (Surr)						
1	11.140	11.137	0.003	22642675H	0.0172	
2	12.765	12.762	0.003	11770183H	0.0167	
					RPD = 3.18	
13 1260 Res 2						
1		0.000			ND	
2		0.000				
14 1260 Res 3						
1		0.000			ND	
2		0.000				
15 1260 Res 1						
1		0.000			ND	
2		0.000				

QC Flag Legend

Review Flags

U - Marked Undetected

Reagents:

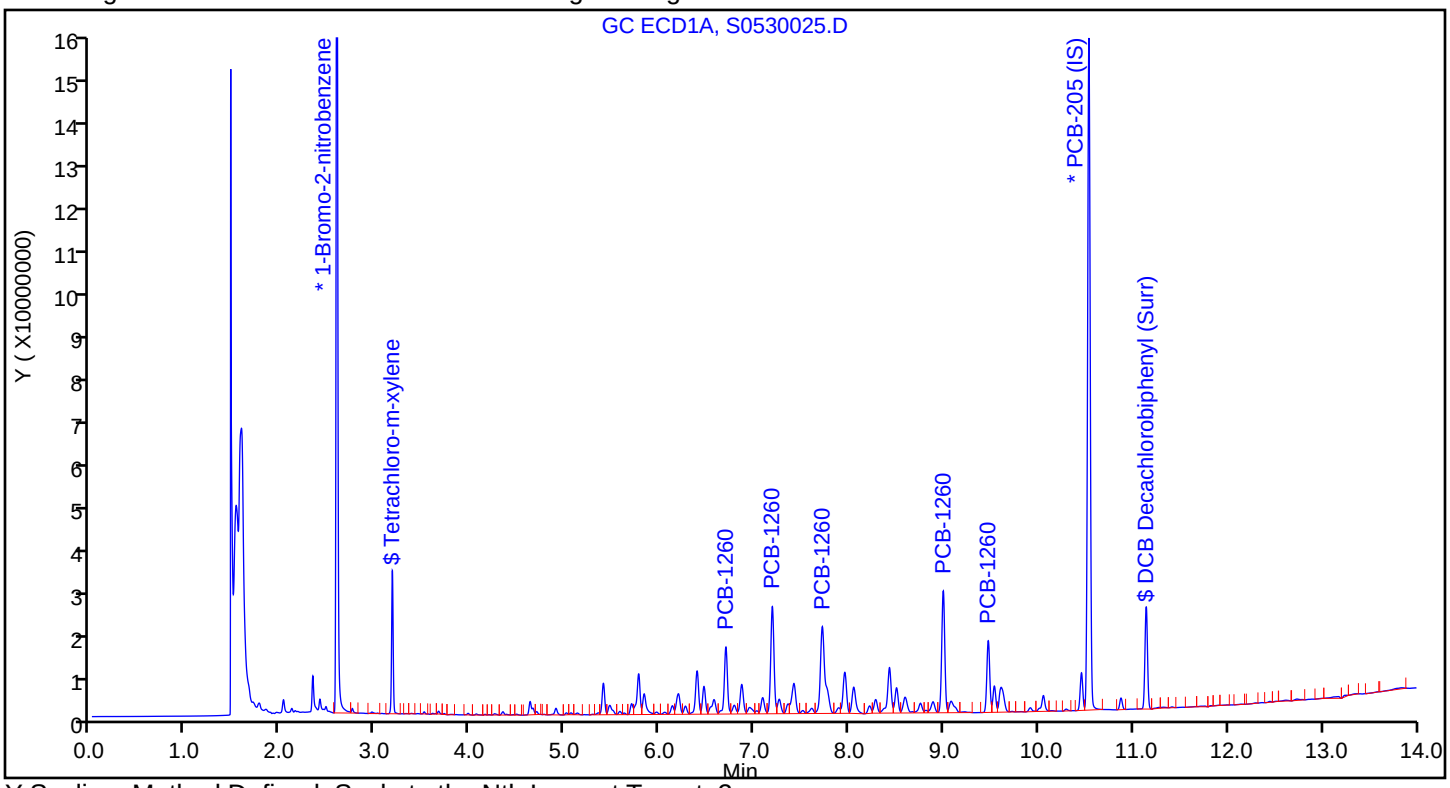
PCBINT_00007 Amount Added: 0.01 Units: mL Run Reagent

Report Date: 31-May-2018 06:28:53 Chrom Revision: 2.2 11-May-2018 08:54:46

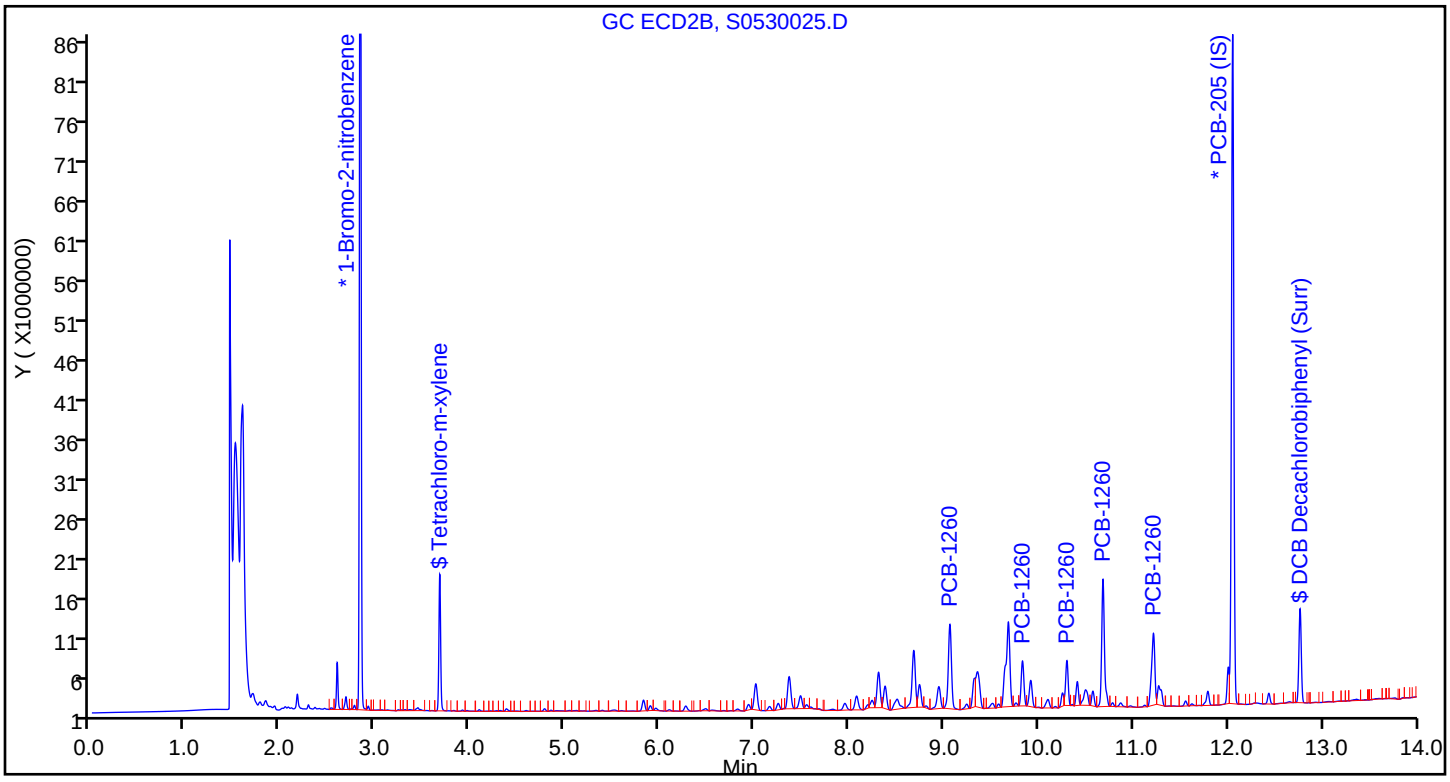
TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CHGC10\20180530-21981.b\S0530025.D				
Injection Date:	30-May-2018 12:58:37	Instrument ID:	CHGC10		
Lims ID:	180-78164-A-5-A	Lab Sample ID:	180-78164-5		
Client ID:	CE-MW-31R2_052318				
Operator ID:		ALS Bottle#:	25	Worklist Smp#:	25
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	IS PCB_CHGC10DUAL	Limit Group:	GCS 8082A ICAL with IS		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



User Disabled Compound Report

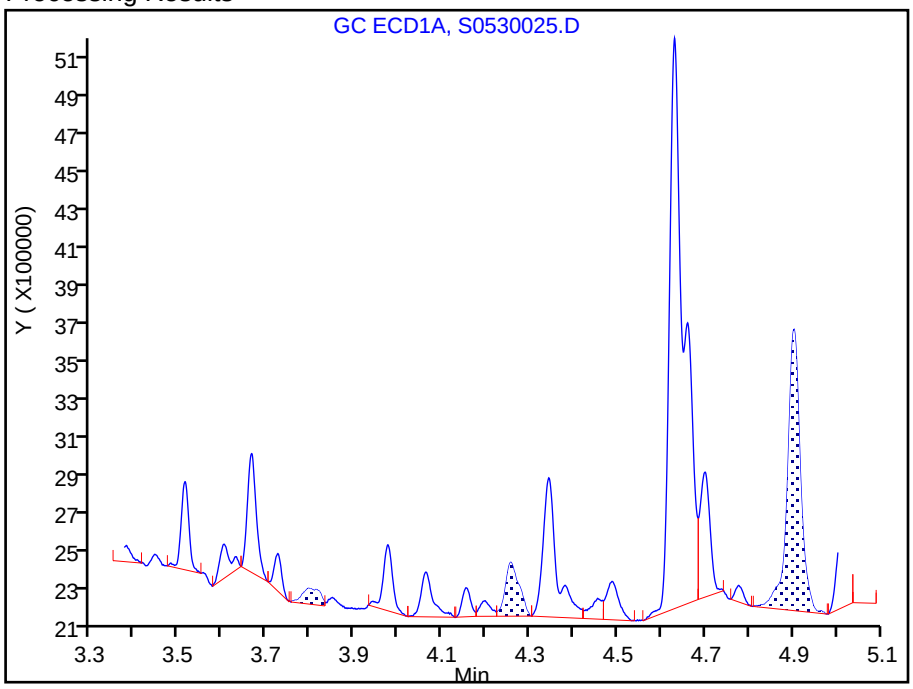
TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CHGC10\20180530-21981.b\S0530025.D		
Injection Date:	30-May-2018 12:58:37	Instrument ID:	CHGC10
Lims ID:	180-78164-A-5-A	Lab Sample ID:	180-78164-5
Client ID:	CE-MW-31R2_052318		
Operator ID:		ALS Bottle#:	25 Worklist Smp#: 25
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	IS PCB_CHGC10DUAL	Limit Group:	GCS 8082A ICAL with IS

6 PCB-1016, Detector: 1, GC ECD1A

Processing Results

Exp RT	RT	Response	Amount
3.47			
3.80	3.79	81241	0.001508
4.28	4.26	279221	0.003519
4.42			
4.90	4.90	1457634	0.037277
		Average =	0.013478



Reviewer: oravecj, 31-May-2018 06:27:11

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

User Disabled Compound Report

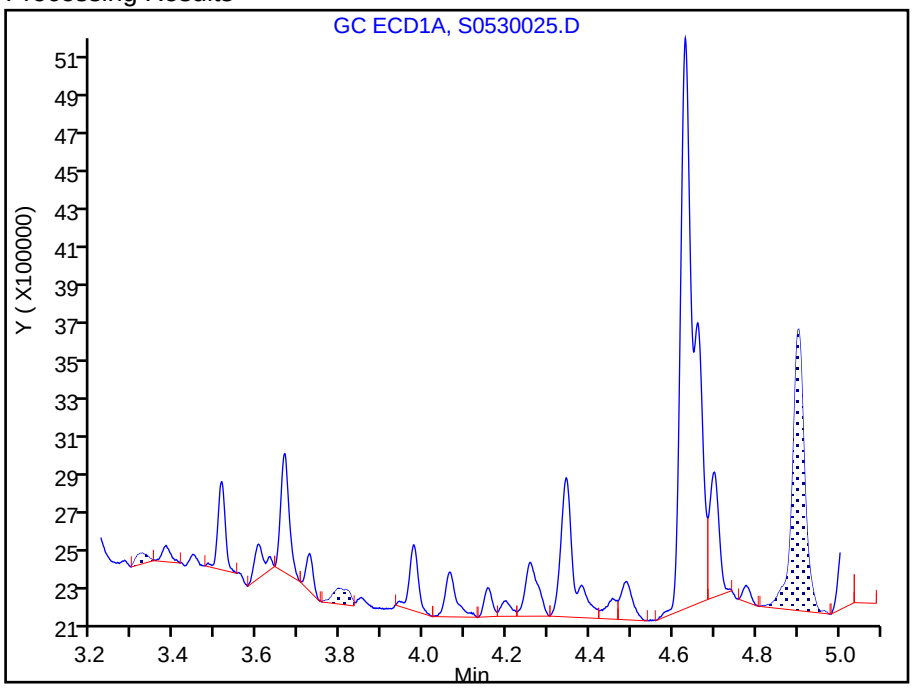
TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CHGC10\20180530-21981.b\S0530025.D		
Injection Date:	30-May-2018 12:58:37	Instrument ID:	CHGC10
Lims ID:	180-78164-A-5-A	Lab Sample ID:	180-78164-5
Client ID:	CE-MW-31R2_052318		
Operator ID:		ALS Bottle#:	25 Worklist Smp#: 25
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	IS PCB_CHGC10DUAL	Limit Group:	GCS 8082A ICAL with IS

4 PCB-1232, Detector: 1, GC ECD1A

Processing Results

Exp RT	RT	Response	Amount
3.31	3.32	55488	0.003465
3.79	3.79	81241	0.003153
4.00			
4.42			
4.90	4.90	1457634	0.087149
		Average =	0.010228



Reviewer: oravecj, 31-May-2018 06:27:10

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

User Disabled Compound Report

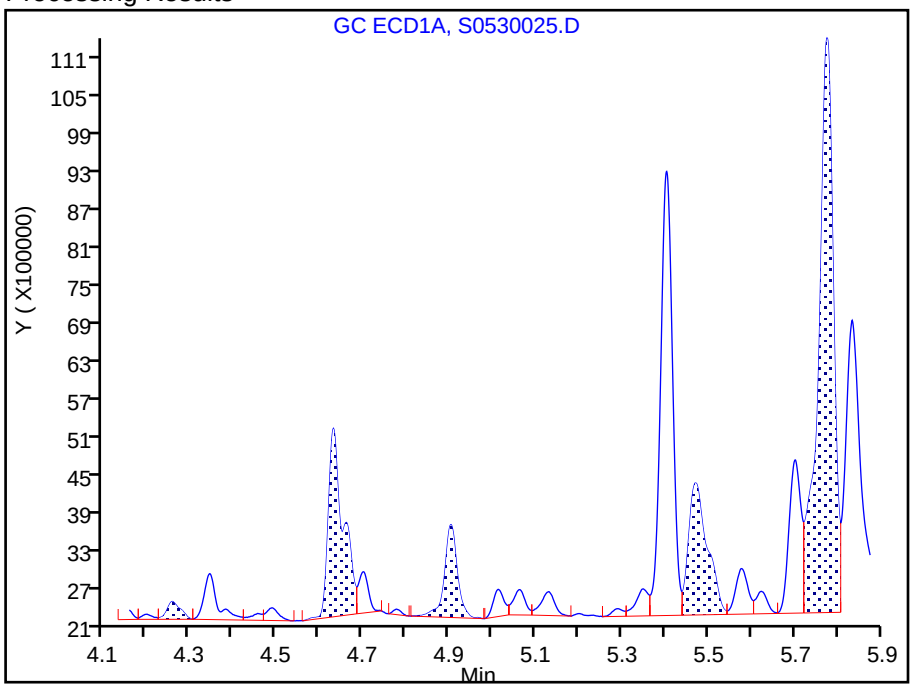
TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CHGC10\20180530-21981.b\S0530025.D		
Injection Date:	30-May-2018 12:58:37	Instrument ID:	CHGC10
Lims ID:	180-78164-A-5-A	Lab Sample ID:	180-78164-5
Client ID:	CE-MW-31R2_052318		
Operator ID:		ALS Bottle#:	25 Worklist Smp#: 25
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	IS PCB_CHGC10DUAL	Limit Group:	GCS 8082A ICAL with IS

7 PCB-1248, Detector: 1, GC ECD1A

Processing Results

Exp RT	RT	Response	Amount
4.25	4.26	279221	0.007180
4.63	4.63	2955856	0.067405
4.90	4.90	1457634	0.027021
5.47	5.47	2070200	0.040125
5.78	5.78	9017976	0.266697
		Average =	0.032992



Reviewer: oravecj, 31-May-2018 06:27:11

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

User Disabled Compound Report

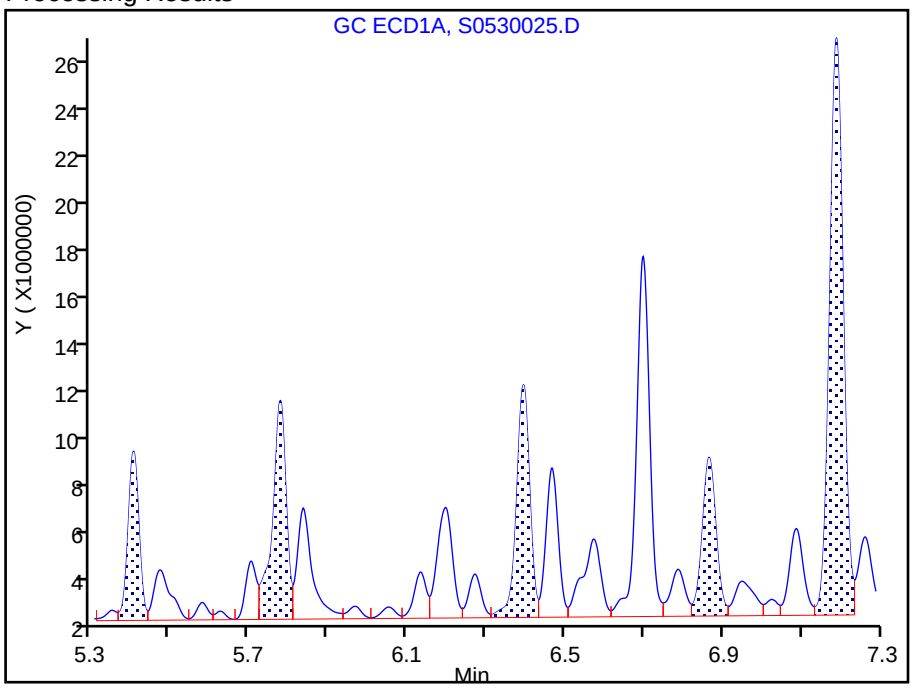
TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CHGC10\20180530-21981.b\S0530025.D		
Injection Date:	30-May-2018 12:58:37	Instrument ID:	CHGC10
Lims ID:	180-78164-A-5-A	Lab Sample ID:	180-78164-5
Client ID:	CE-MW-31R2_052318		
Operator ID:		ALS Bottle#:	25 Worklist Smp#: 25
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	IS PCB_CHGC10DUAL	Limit Group:	GCS 8082A ICAL with IS

8 PCB-1254, Detector: 1, GC ECD1A

Processing Results

Exp RT	RT	Response	Amount
5.40	5.40	6972130	0.128107
5.77	5.78	9017976	0.132240
6.39	6.39	9585572	0.109062
6.86	6.87	6536915	0.114613
7.18	7.19	23780378	0.447503
		Average =	0.186305



Reviewer: oravecj, 31-May-2018 06:27:12

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh Job No.: 180-78164-1

SDG No.:

Client Sample ID: CE-MW-31R2_052318 Lab Sample ID: 180-78164-5

Matrix: Water Lab File ID: S0530025.D

Analysis Method: 8082A Date Collected: 05/23/2018 14:26

Extraction Method: 3510C Date Extracted: 05/29/2018 14:00

Sample wt/vol: 980(mL) Date Analyzed: 05/30/2018 12:58

Con. Extract Vol.: 1.0(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: RTX-CLP2 ID: 0.53(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 246135 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl (Surr)	83		46-126
877-09-8	Tetrachloro-m-xylene	66		36-130

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180530-21981.b\S0530025.D
Lims ID: 180-78164-A-5-A
Client ID: CE-MW-31R2_052318
Sample Type: Client
Inject. Date: 30-May-2018 12:58:37 ALS Bottle#: 25 Worklist Smp#: 25
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0021981-025
Operator ID: Instrument ID: CHGC10

Method: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180530-21981.b\IS PCB_CHGC10DUAL.m
Limit Group: GCS 8082A ICAL with IS
Last Update: 31-May-2018 06:28:26 Calib Date: 01-Mar-2018 20:27:10
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\S0301050.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK028

First Level Reviewer: oravecj Date: 31-May-2018 06:27:16

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng	Flags
* 1 1-Bromo-2-nitrobenzene						
1	2.589	2.585	0.004	224064732H	0.1000	
2	2.836	2.831	0.005	144480724H	0.1000	
$ 2 Tetrachloro-m-xylene						
1	3.175	3.173	0.002	31761827H	0.0128	
2	3.675	3.672	0.003	17082885H	0.0132	
					RPD = 3.08	
3 PCB-1221						U
1		3.307			ND	
1		3.433				
1		3.471				
2		3.207				
2		3.964				
2		4.196				
4 PCB-1232						U
1		3.308			ND	
1		3.795				
1		4.001				
1		4.421				
1		4.900				
2		3.966				
2		4.691				
2		5.028				
2		5.525				
2		5.684				

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng	Flags
6	PCB-1016					U
1		3.474			ND	
1		3.796				
1		4.276				
1		4.420				
1		4.901				
2		5.029				
2		5.327				
2		5.526				
2		6.270				
2		6.481				
5	PCB-1242					
1		3.475			ND	
1		4.278				
1		4.423				
1		4.903				
1		5.466				
2		4.694				
2		5.329				
2		5.528				
2		6.271				
2		7.021				
7	PCB-1248					U
1		4.254			ND	
1		4.629				
1		4.901				
1		5.465				
1		5.784				
2		5.824				
2		6.269				
2		6.482				
2		6.934				
2		7.453				
8	PCB-1254					U
1		5.397			ND	
1		5.771				
1		6.389				
1		6.860				
1		7.184				
2		7.357				
2		8.303				
2		9.058				
2		9.361				
2		9.679				

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng	Flags
10 PCB-1262						U
1		6.694			ND	
1		7.184				
1		7.950				
1		8.422				
1		9.531				
2		8.678				
2		9.826				
2		10.297				
2		10.678				
2		11.205				
9 PCB-1260						
1	6.699	6.696	0.003	14846323H	0.2620	
1	7.190	7.186	0.004	23780378H	0.2868	
1	7.718	7.715	0.003	19262166H	0.3161	
1	8.996	8.992	0.004	27028979H	0.2371	
1	9.470	9.469	0.001	15918519H	0.2492	
		Average of Peak Amounts =			0.2702	
2	9.065	9.060	0.005	10566799H	0.2846	
2	9.832	9.828	0.004	5626293H	0.2127	
2	10.302	10.298	0.004	5626917H	0.1944	
2	10.683	10.679	0.004	15935247H	0.2354	
2	11.215	11.212	0.003	8984965H	0.2372	
		Average of Peak Amounts =			0.2329	
					RPD = 14.85	
11 PCB-1268						U
1		9.533			ND	
1		9.597				
1		9.906				
1		10.870				
2		11.200				
2		11.267				
2		11.620				
2		12.432				
* 46 PCB-205 (IS)						
1	10.534	10.528	0.005	148998585H	0.1000	
2	12.053	12.048	0.005	83777715H	0.1000	
$ 12 DCB Decachlorobiphenyl (Surr)						
1	11.140	11.137	0.003	22642675H	0.0172	
2	12.765	12.762	0.003	11770183H	0.0167	
					RPD = 3.18	
13 1260 Res 2						
1		0.000			ND	
2		0.000				
14 1260 Res 3						
1		0.000			ND	
2		0.000				
15 1260 Res 1						
1		0.000			ND	
2		0.000				

QC Flag Legend

Review Flags

U - Marked Undetected

Reagents:

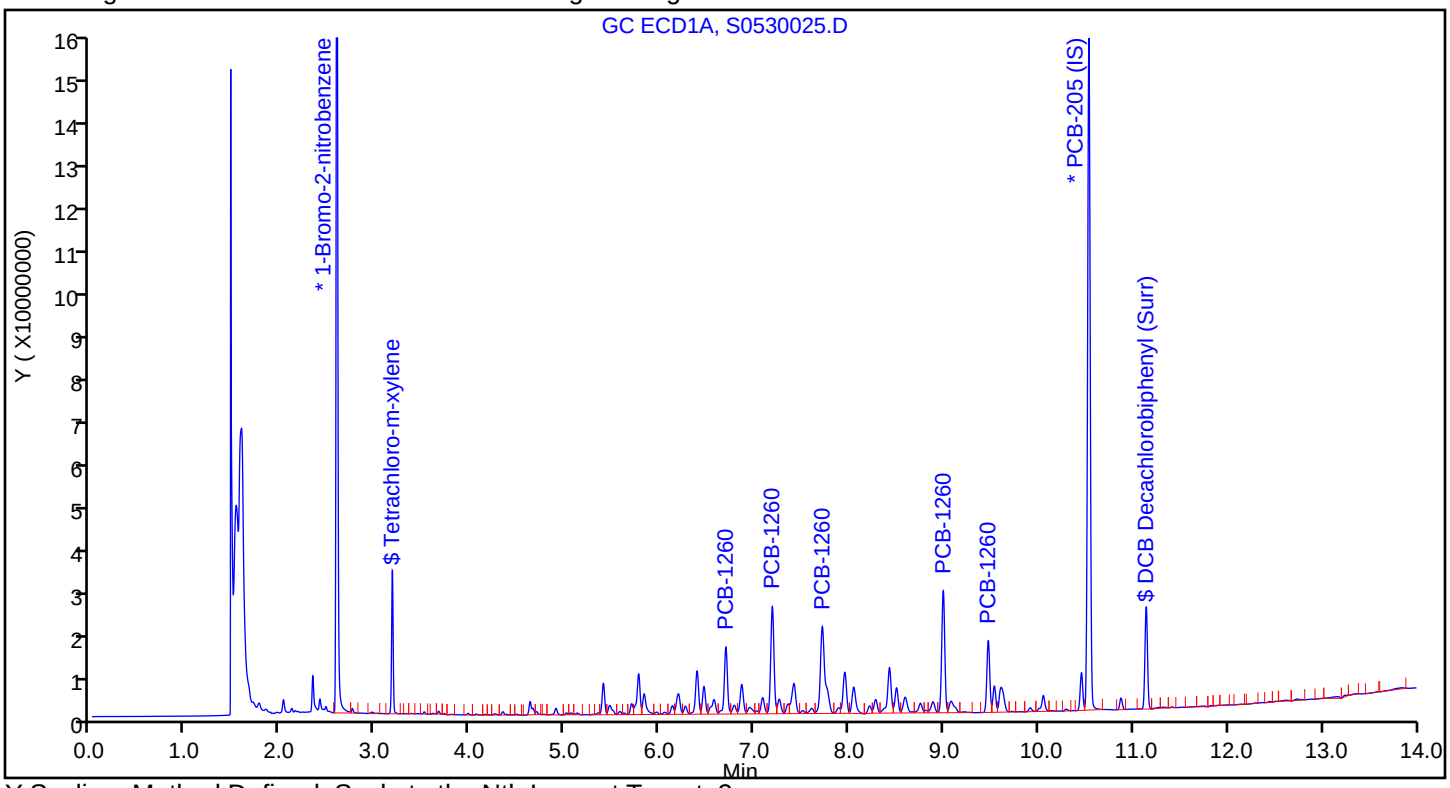
PCBINT_00007 Amount Added: 0.01 Units: mL Run Reagent

Report Date: 31-May-2018 06:28:54 Chrom Revision: 2.2 11-May-2018 08:54:46

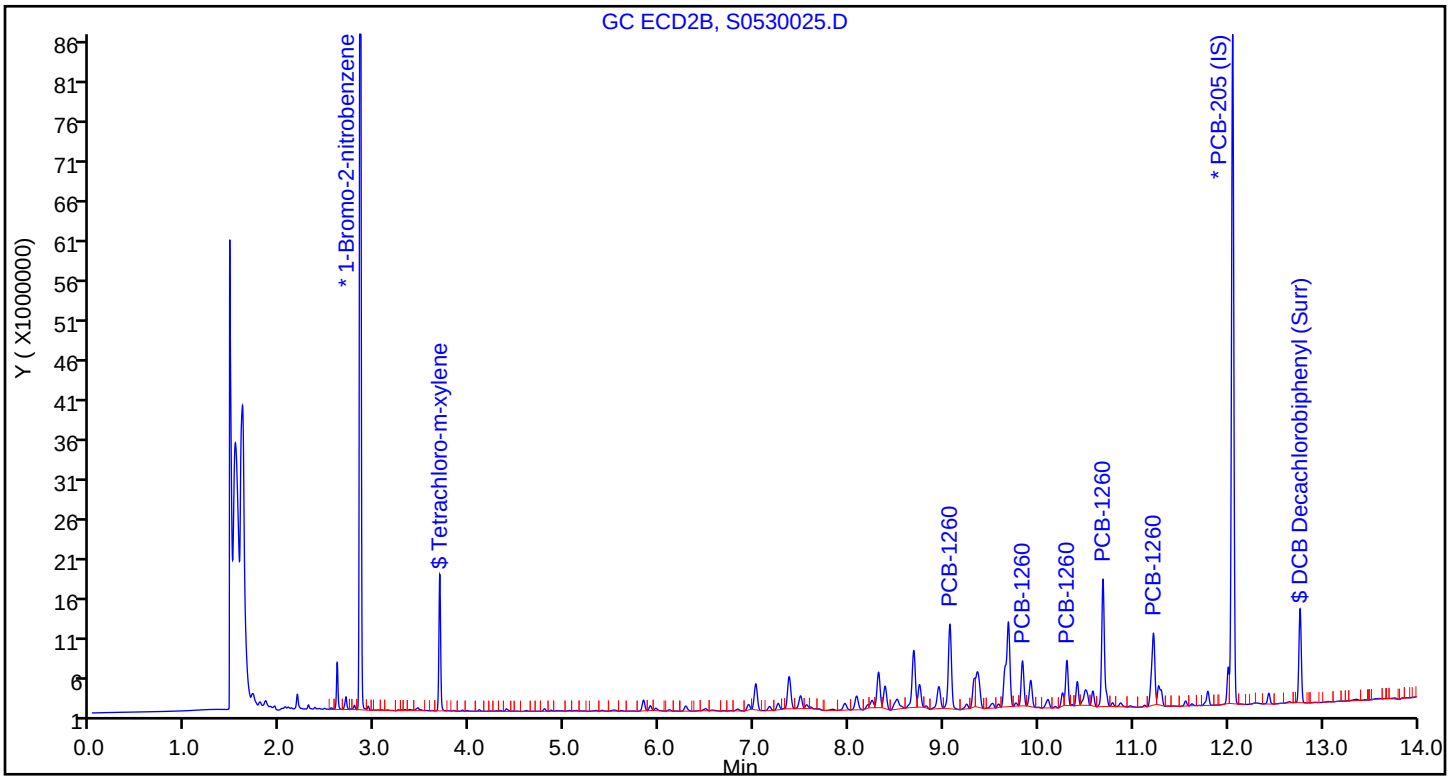
TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CHGC10\20180530-21981.b\S0530025.D				
Injection Date:	30-May-2018 12:58:37	Instrument ID:	CHGC10		
Lims ID:	180-78164-A-5-A	Lab Sample ID:	180-78164-5		
Client ID:	CE-MW-31R2_052318				
Operator ID:		ALS Bottle#:	25	Worklist Smp#:	25
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	IS PCB_CHGC10DUAL	Limit Group:	GCS 8082A ICAL with IS		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



User Disabled Compound Report

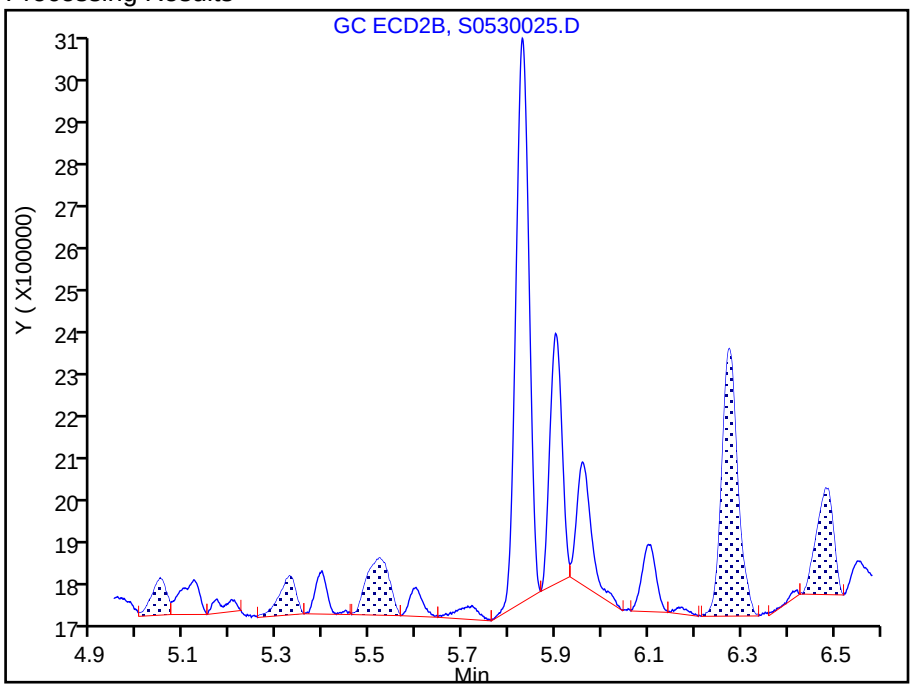
TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CHGC10\20180530-21981.b\S0530025.D		
Injection Date:	30-May-2018 12:58:37	Instrument ID:	CHGC10
Lims ID:	180-78164-A-5-A	Lab Sample ID:	180-78164-5
Client ID:	CE-MW-31R2_052318		
Operator ID:		ALS Bottle#:	25 Worklist Smp#: 25
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	IS PCB_CHGC10DUAL	Limit Group:	GCS 8082A ICAL with IS

6 PCB-1016, Detector: 2, GC ECD2B

Processing Results

Exp RT	RT	Response	Amount
5.03	5.05	88875	0.006856
5.33	5.33	93124	0.002374
5.53	5.52	136638	0.006109
6.27	6.27	637421	0.035228
6.48	6.48	254085	0.016826
		Average =	0.013478



Reviewer: oravecj, 31-May-2018 06:27:11

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

User Disabled Compound Report

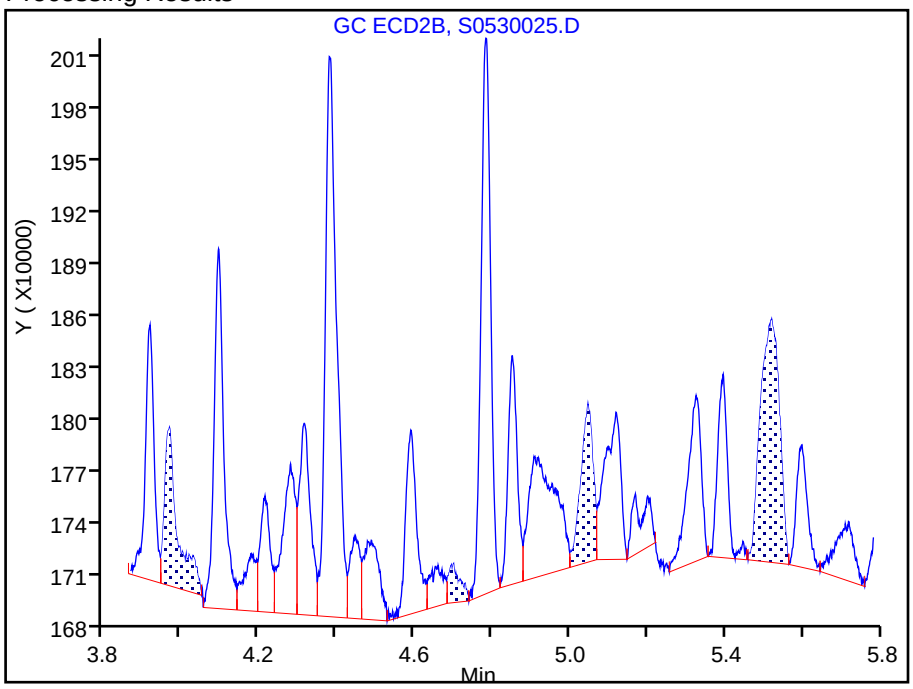
TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180530-21981.b\S0530025.D
Injection Date: 30-May-2018 12:58:37 Instrument ID: CHGC10
Lims ID: 180-78164-A-5-A Lab Sample ID: 180-78164-5
Client ID: CE-MW-31R2_052318
Operator ID: ALS Bottle#: 25 Worklist Smp#: 25
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: IS PCB_CHGC10DUAL Limit Group: GCS 8082A ICAL with IS

4 PCB-1232, Detector: 2, GC ECD2B

Processing Results

Exp RT	RT	Response	Amount
3.97	3.97	88832	0.011079
4.69	4.70	21877	0.001921
5.03	5.05	88875	0.014270
5.52	5.52	136638	0.013642
5.68			
		Average =	0.010228



Reviewer: oravecj, 31-May-2018 06:27:10
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

User Disabled Compound Report

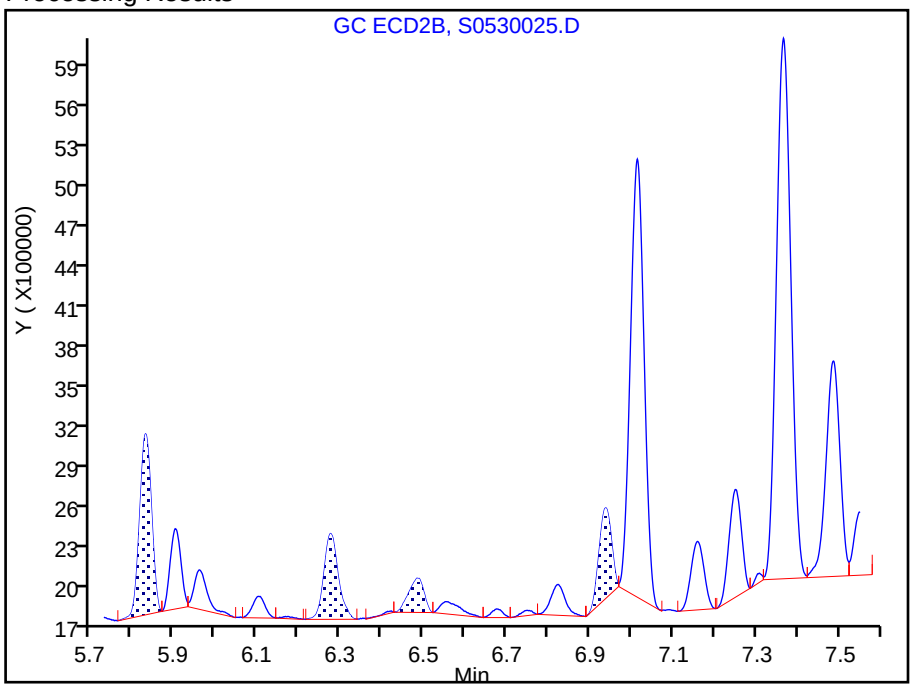
TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CHGC10\20180530-21981.b\S0530025.D		
Injection Date:	30-May-2018 12:58:37	Instrument ID:	CHGC10
Lims ID:	180-78164-A-5-A	Lab Sample ID:	180-78164-5
Client ID:	CE-MW-31R2_052318		
Operator ID:		ALS Bottle#:	25 Worklist Smp#: 25
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	IS PCB_CHGC10DUAL	Limit Group:	GCS 8082A ICAL with IS

7 PCB-1248, Detector: 2, GC ECD2B

Processing Results

Exp RT	RT	Response	Amount
5.82	5.83	1344547	0.066767
6.27	6.27	637421	0.026056
6.48	6.48	254085	0.012655
6.93	6.94	671459	0.026488
7.45			
		Average =	0.032992



Reviewer: oravecj, 31-May-2018 06:27:11

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

User Disabled Compound Report

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180530-21981.b\S0530025.D

Injection Date: 30-May-2018 12:58:37 Instrument ID: CHGC10

Lims ID: 180-78164-A-5-A Lab Sample ID: 180-78164-5

Client ID: CE-MW-31R2_052318

Operator ID: ALS Bottle#: 25 Worklist Smp#: 25

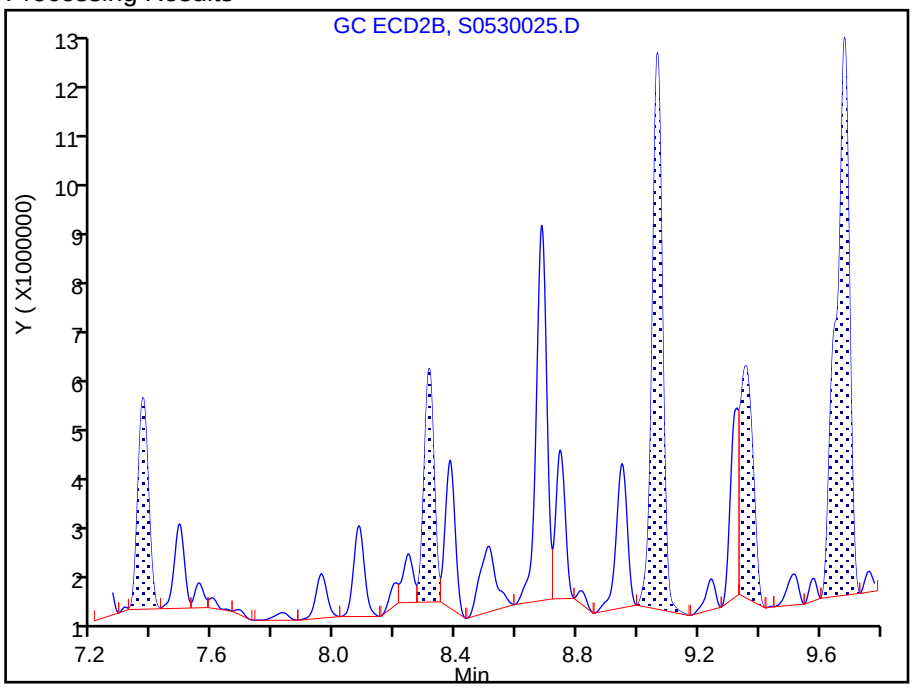
Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: IS PCB_CHGC10DUAL Limit Group: GCS 8082A ICAL with IS

8 PCB-1254, Detector: 2, GC ECD2B

Processing Results

Exp RT	RT	Response	Amount
7.36	7.37	4017027	0.134710
8.30	8.31	4434517	0.138030
9.06	9.07	10566799	0.551416
9.36	9.36	4410856	0.187460
9.68	9.68	10589102	0.293235
		Average =	0.186305



Reviewer: oravecj, 31-May-2018 06:27:12

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-78164-1

SDG No.:

Client Sample ID: CE-MW-29R5_052318 | Lab Sample ID: 180-78164-6

Matrix: Water | Lab File ID: S0530026.D

Analysis Method: 8082A | Date Collected: 05/23/2018 16:31

Extraction Method: 3510C | Date Extracted: 05/29/2018 14:00

Sample wt/vol: 970(mL) | Date Analyzed: 05/30/2018 13:17

Con. Extract Vol.: 1.0(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RTX-CLP1 ID: 0.53(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 246135 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	Arochlor 1016	0.0049	U	0.010	0.0049
11104-28-2	Arochlor 1221	0.0059	U	0.010	0.0059
11141-16-5	Arochlor 1232	0.0054	U	0.010	0.0054
53469-21-9	Arochlor 1242	0.0094	U	0.010	0.0094
12672-29-6	Arochlor 1248	0.0031	U	0.010	0.0031
11097-69-1	Arochlor 1254	0.0098	U	0.010	0.0098
11096-82-5	Arochlor 1260	0.097		0.010	0.0040

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl (Surr)	88		46-126
877-09-8	Tetrachloro-m-xylene	69		36-130

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180530-21981.b\S0530026.D
Lims ID: 180-78164-A-6-A
Client ID: CE-MW-29R5_052318
Sample Type: Client
Inject. Date: 30-May-2018 13:17:21 ALS Bottle#: 26 Worklist Smp#: 26
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0021981-026
Operator ID: Instrument ID: CHGC10

Method: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180530-21981.b\IS PCB_CHGC10DUAL.m
Limit Group: GCS 8082A ICAL with IS
Last Update: 31-May-2018 06:28:26 Calib Date: 01-Mar-2018 20:27:10
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\S0301050.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK028

First Level Reviewer: oravecj Date: 31-May-2018 06:27:53

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng	Flags
* 1 1-Bromo-2-nitrobenzene						
1	2.588	2.585	0.003	219615229	H 0.1000	
2	2.836	2.831	0.005	141184024	H 0.1000	
$ 2 Tetrachloro-m-xylene						
1	3.175	3.173	0.002	33615971	H 0.0138	
2	3.675	3.672	0.003	17544152	H 0.0139	
					RPD = 0.37	
3 PCB-1221						
1		3.307			ND	
1		3.433				
1		3.471				
2		3.207				
2		3.964				
2		4.196				
4 PCB-1232						
1		3.308			ND	
1		3.795				
1		4.001				
1		4.421				
1		4.900				
2		3.966				
2		4.691				
2		5.028				
2		5.525				
2		5.684				

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng	Flags
6	PCB-1016					U
1		3.474			ND	
1		3.796				
1		4.276				
1		4.420				
1		4.901				
2		5.029				
2		5.327				
2		5.526				
2		6.270				
2		6.481				
5	PCB-1242					U
1		3.475			ND	
1		4.278				
1		4.423				
1		4.903				
1		5.466				
2		4.694				
2		5.329				
2		5.528				
2		6.271				
2		7.021				
7	PCB-1248					U
1		4.254			ND	
1		4.629				
1		4.901				
1		5.465				
1		5.784				
2		5.824				
2		6.269				
2		6.482				
2		6.934				
2		7.453				
8	PCB-1254					U
1		5.397			ND	
1		5.771				
1		6.389				
1		6.860				
1		7.184				
2		7.357				
2		8.303				
2		9.058				
2		9.361				
2		9.679				

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng	Flags
10 PCB-1262						U
1		6.694			ND	
1		7.184				
1		7.950				
1		8.422				
1		9.531				
2		8.678				
2		9.826				
2		10.297				
2		10.678				
2		11.205				
9 PCB-1260						
1	6.699	6.696	0.003	6720886H	0.1175	
1	7.190	7.186	0.004	9486861H	0.1133	
1	7.716	7.715	0.001	6958670H	0.1131	
1	8.996	8.992	0.004	7092959H	0.0616	
1	9.471	9.469	0.002	4212859H	0.0653	
		Average of Peak Amounts =			0.0942	
2	9.065	9.060	0.005	3875858H	0.1060	
2	9.832	9.828	0.004	1810130H	0.0695	
2	10.302	10.298	0.004	1235241H	0.0433	
2	10.683	10.679	0.004	3856710H	0.0579	
2	11.212	11.212	0.000	2297761H	0.0616	
		Average of Peak Amounts =			0.0677	
					RPD = 32.77	
11 PCB-1268						U
1		9.533			ND	
1		9.597				
1		9.906				
1		10.870				
2		11.200				
2		11.267				
2		11.620				
2		12.432				
* 46 PCB-205 (IS)						
1	10.534	10.528	0.006	150414688H	0.1000	
2	12.052	12.048	0.004	82500950H	0.1000	
$ 12 DCB Decachlorobiphenyl (Surr)						
1	11.140	11.137	0.003	23523196H	0.0177	
2	12.765	12.762	0.003	11833399H	0.0170	
					RPD = 3.98	
13 1260 Res 2						
1		0.000			ND	
2		0.000				
14 1260 Res 3						
1		0.000			ND	
2		0.000				
15 1260 Res 1						
1		0.000			ND	
2		0.000				

QC Flag Legend

Review Flags

U - Marked Undetected

Reagents:

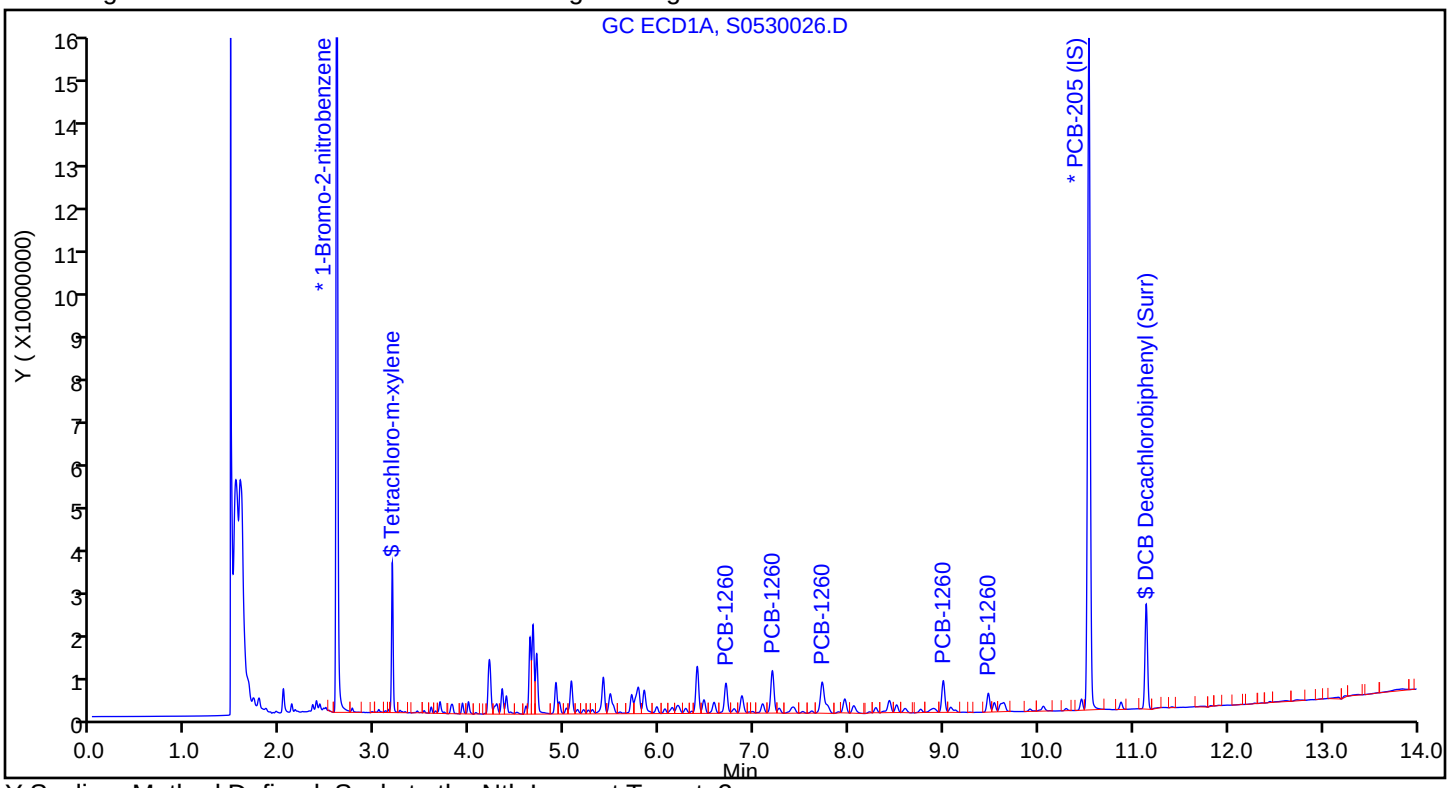
PCBINT_00007 Amount Added: 0.01 Units: mL Run Reagent

Report Date: 31-May-2018 06:28:51 Chrom Revision: 2.2 11-May-2018 08:54:46

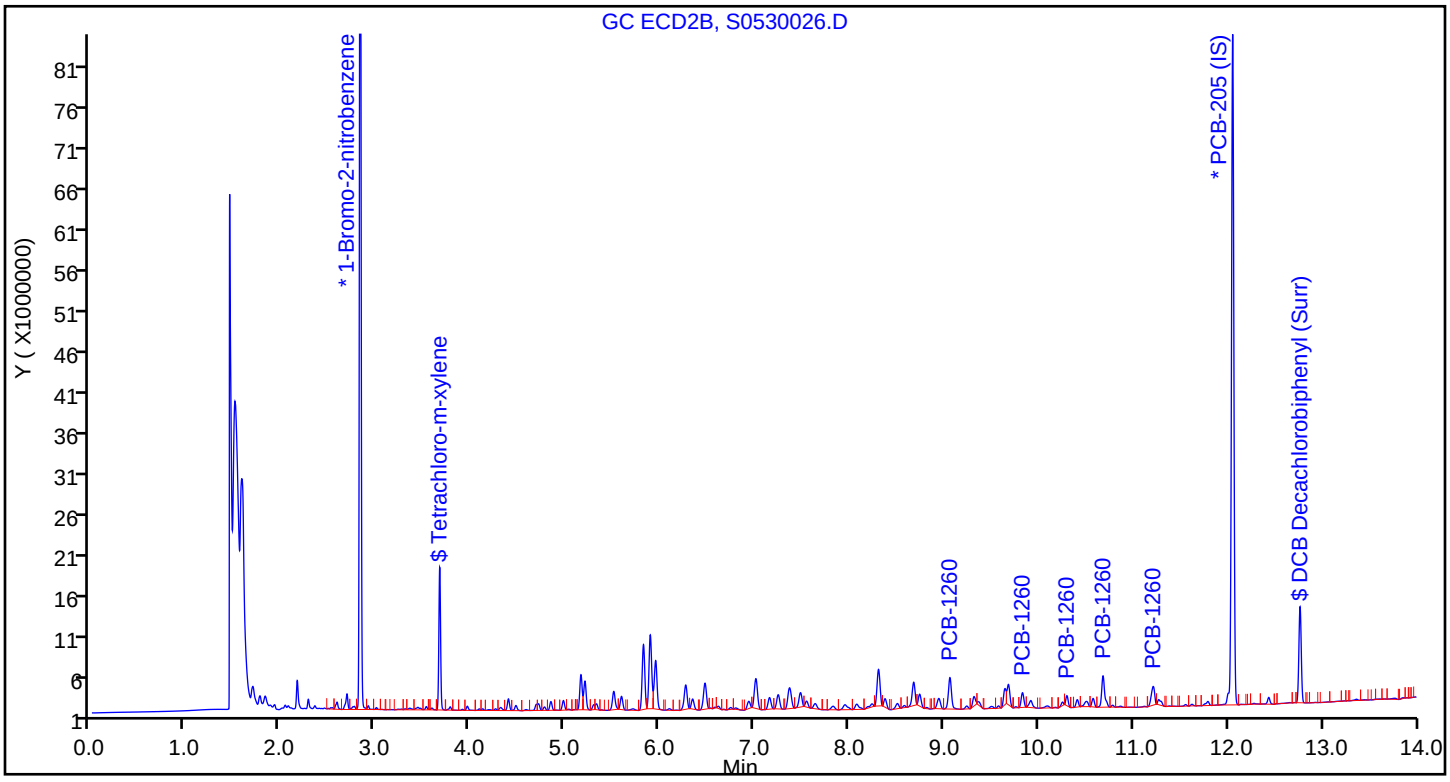
TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CHGC10\20180530-21981.b\S0530026.D				
Injection Date:	30-May-2018 13:17:21	Instrument ID:	CHGC10		
Lims ID:	180-78164-A-6-A	Lab Sample ID:	180-78164-6		
Client ID:	CE-MW-29R5_052318				
Operator ID:		ALS Bottle#:	26	Worklist Smp#:	26
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	IS PCB_CHGC10DUAL	Limit Group:	GCS 8082A ICAL with IS		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



User Disabled Compound Report

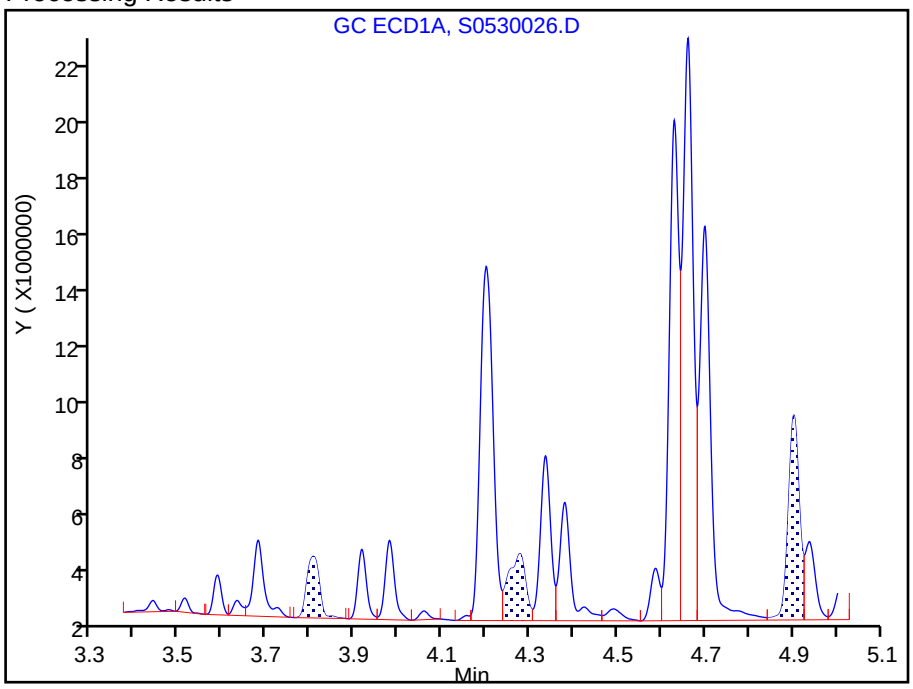
TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CHGC10\20180530-21981.b\S0530026.D		
Injection Date:	30-May-2018 13:17:21	Instrument ID:	CHGC10
Lims ID:	180-78164-A-6-A	Lab Sample ID:	180-78164-6
Client ID:	CE-MW-29R5_052318		
Operator ID:		ALS Bottle#:	26 Worklist Smp#: 26
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	IS PCB_CHGC10DUAL	Limit Group:	GCS 8082A ICAL with IS

6 PCB-1016, Detector: 1, GC ECD1A

Processing Results

Exp RT	RT	Response	Amount
3.47			
3.80	3.80	2119971	0.040150
4.28	4.28	2306179	0.029655
4.42			
4.90	4.90	7045111	0.183818
		Average =	0.084541



Reviewer: oravecj, 31-May-2018 06:27:29

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

User Disabled Compound Report

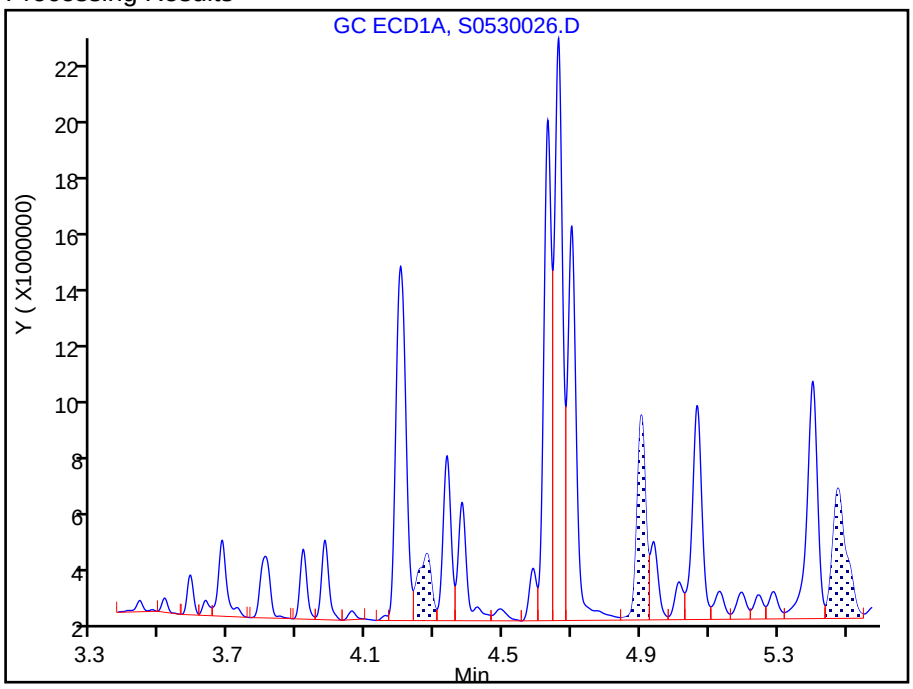
TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CHGC10\20180530-21981.b\S0530026.D		
Injection Date:	30-May-2018 13:17:21	Instrument ID:	CHGC10
Lims ID:	180-78164-A-6-A	Lab Sample ID:	180-78164-6
Client ID:	CE-MW-29R5_052318		
Operator ID:		ALS Bottle#:	26 Worklist Smp#: 26
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	IS PCB_CHGC10DUAL	Limit Group:	GCS 8082A ICAL with IS

5 PCB-1242, Detector: 1, GC ECD1A

Processing Results

Exp RT	RT	Response	Amount
3.48			
4.28	4.28	2306179	0.035012
4.42			
4.90	4.90	7045111	0.211519
5.47	5.48	4478961	0.157780
		Average =	0.123367



Reviewer: oravecj, 31-May-2018 06:27:28

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

User Disabled Compound Report

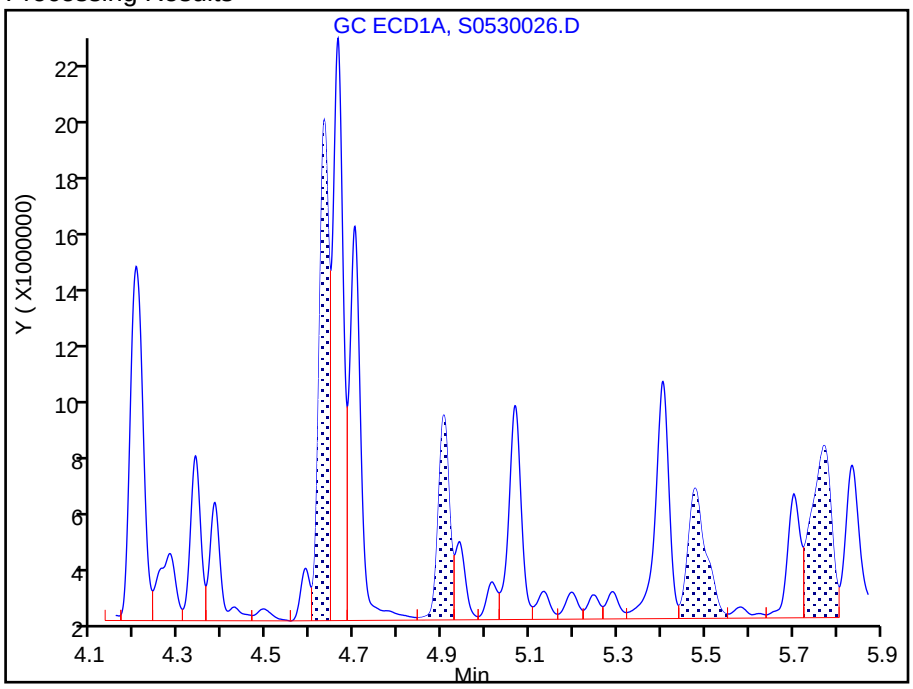
TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CHGC10\20180530-21981.b\S0530026.D		
Injection Date:	30-May-2018 13:17:21	Instrument ID:	CHGC10
Lims ID:	180-78164-A-6-A	Lab Sample ID:	180-78164-6
Client ID:	CE-MW-29R5_052318		
Operator ID:		ALS Bottle#:	26 Worklist Smp#: 26
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	IS PCB_CHGC10DUAL	Limit Group:	GCS 8082A ICAL with IS

7 PCB-1248, Detector: 1, GC ECD1A

Processing Results

Exp RT	RT	Response	Amount
4.25			
4.63	4.63	17217303	0.400574
4.90	4.90	7045111	0.133243
5.47	5.48	4478961	0.088572
5.78	5.77	5918802	0.178589
		Average =	0.182356



Reviewer: oravecj, 31-May-2018 06:27:41

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

User Disabled Compound Report

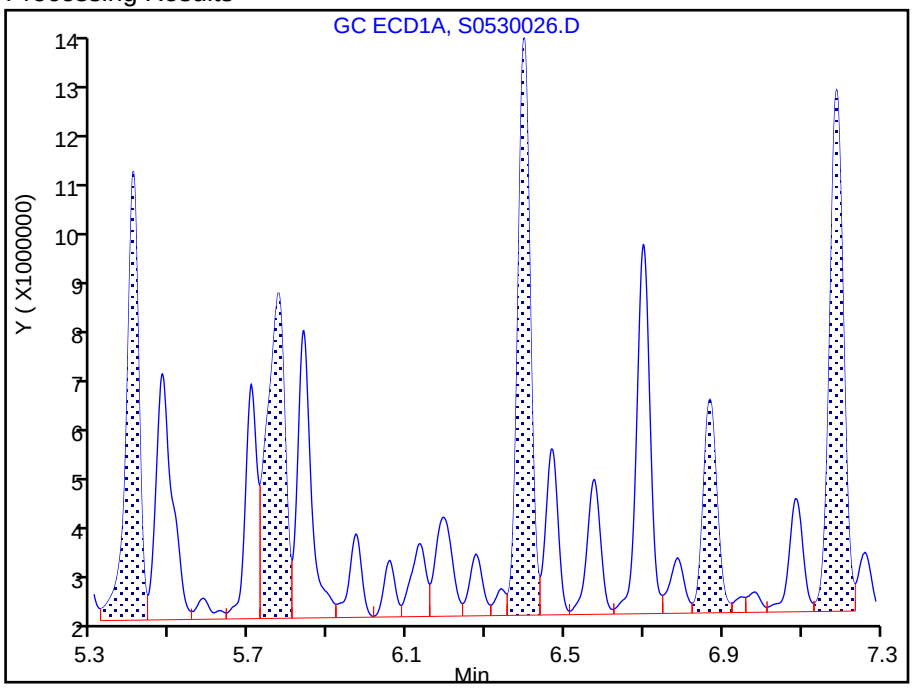
TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CHGC10\20180530-21981.b\S0530026.D		
Injection Date:	30-May-2018 13:17:21	Instrument ID:	CHGC10
Lims ID:	180-78164-A-6-A	Lab Sample ID:	180-78164-6
Client ID:	CE-MW-29R5_052318		
Operator ID:		ALS Bottle#:	26 Worklist Smp#: 26
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	IS PCB_CHGC10DUAL	Limit Group:	GCS 8082A ICAL with IS

8 PCB-1254, Detector: 1, GC ECD1A

Processing Results

Exp RT	RT	Response	Amount
5.40	5.40	8161472	0.148548
5.77	5.77	5918802	0.085977
6.39	6.40	10505972	0.118409
6.86	6.87	3889978	0.067562
7.18	7.19	9486861	0.176845
		Average =	0.104543



Reviewer: oravecj, 31-May-2018 06:27:50

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh Job No.: 180-78164-1

SDG No.:

Client Sample ID: CE-MW-29R5_052318 Lab Sample ID: 180-78164-6

Matrix: Water Lab File ID: S0530026.D

Analysis Method: 8082A Date Collected: 05/23/2018 16:31

Extraction Method: 3510C Date Extracted: 05/29/2018 14:00

Sample wt/vol: 970(mL) Date Analyzed: 05/30/2018 13:17

Con. Extract Vol.: 1.0(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: RTX-CLP2 ID: 0.53(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 246135 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl (Surr)	85		46-126
877-09-8	Tetrachloro-m-xylene	69		36-130

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180530-21981.b\S0530026.D
Lims ID: 180-78164-A-6-A
Client ID: CE-MW-29R5_052318
Sample Type: Client
Inject. Date: 30-May-2018 13:17:21 ALS Bottle#: 26 Worklist Smp#: 26
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0021981-026
Operator ID: Instrument ID: CHGC10

Method: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180530-21981.b\IS PCB_CHGC10DUAL.m
Limit Group: GCS 8082A ICAL with IS
Last Update: 31-May-2018 06:28:26 Calib Date: 01-Mar-2018 20:27:10
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\S0301050.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK028

First Level Reviewer: oravecj Date: 31-May-2018 06:27:53

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng	Flags
* 1 1-Bromo-2-nitrobenzene						
1	2.588	2.585	0.003	219615229	H 0.1000	
2	2.836	2.831	0.005	141184024	H 0.1000	
$ 2 Tetrachloro-m-xylene						
1	3.175	3.173	0.002	33615971	H 0.0138	
2	3.675	3.672	0.003	17544152	H 0.0139	
					RPD = 0.37	
3 PCB-1221						
1		3.307			ND	
1		3.433				
1		3.471				
2		3.207				
2		3.964				
2		4.196				
4 PCB-1232						
1		3.308			ND	
1		3.795				
1		4.001				
1		4.421				
1		4.900				
2		3.966				
2		4.691				
2		5.028				
2		5.525				
2		5.684				

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng	Flags
6	PCB-1016					U
1		3.474			ND	
1		3.796				
1		4.276				
1		4.420				
1		4.901				
2		5.029				
2		5.327				
2		5.526				
2		6.270				
2		6.481				
5	PCB-1242					U
1		3.475			ND	
1		4.278				
1		4.423				
1		4.903				
1		5.466				
2		4.694				
2		5.329				
2		5.528				
2		6.271				
2		7.021				
7	PCB-1248					U
1		4.254			ND	
1		4.629				
1		4.901				
1		5.465				
1		5.784				
2		5.824				
2		6.269				
2		6.482				
2		6.934				
2		7.453				
8	PCB-1254					U
1		5.397			ND	
1		5.771				
1		6.389				
1		6.860				
1		7.184				
2		7.357				
2		8.303				
2		9.058				
2		9.361				
2		9.679				

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng	Flags
10 PCB-1262						U
1		6.694			ND	
1		7.184				
1		7.950				
1		8.422				
1		9.531				
2		8.678				
2		9.826				
2		10.297				
2		10.678				
2		11.205				
9 PCB-1260						
1	6.699	6.696	0.003	6720886H	0.1175	
1	7.190	7.186	0.004	9486861H	0.1133	
1	7.716	7.715	0.001	6958670H	0.1131	
1	8.996	8.992	0.004	7092959H	0.0616	
1	9.471	9.469	0.002	4212859H	0.0653	
		Average of Peak Amounts =			0.0942	
2	9.065	9.060	0.005	3875858H	0.1060	
2	9.832	9.828	0.004	1810130H	0.0695	
2	10.302	10.298	0.004	1235241H	0.0433	
2	10.683	10.679	0.004	3856710H	0.0579	
2	11.212	11.212	0.000	2297761H	0.0616	
		Average of Peak Amounts =			0.0677	
					RPD = 32.77	
11 PCB-1268						U
1		9.533			ND	
1		9.597				
1		9.906				
1		10.870				
2		11.200				
2		11.267				
2		11.620				
2		12.432				
* 46 PCB-205 (IS)						
1	10.534	10.528	0.006	150414688H	0.1000	
2	12.052	12.048	0.004	82500950H	0.1000	
$ 12 DCB Decachlorobiphenyl (Surr)						
1	11.140	11.137	0.003	23523196H	0.0177	
2	12.765	12.762	0.003	11833399H	0.0170	
					RPD = 3.98	
13 1260 Res 2						
1		0.000			ND	
2		0.000				
14 1260 Res 3						
1		0.000			ND	
2		0.000				
15 1260 Res 1						
1		0.000			ND	
2		0.000				

QC Flag Legend

Review Flags

U - Marked Undetected

Reagents:

PCBINT_00007	Amount Added:	0.01	Units: mL	Run Reagent

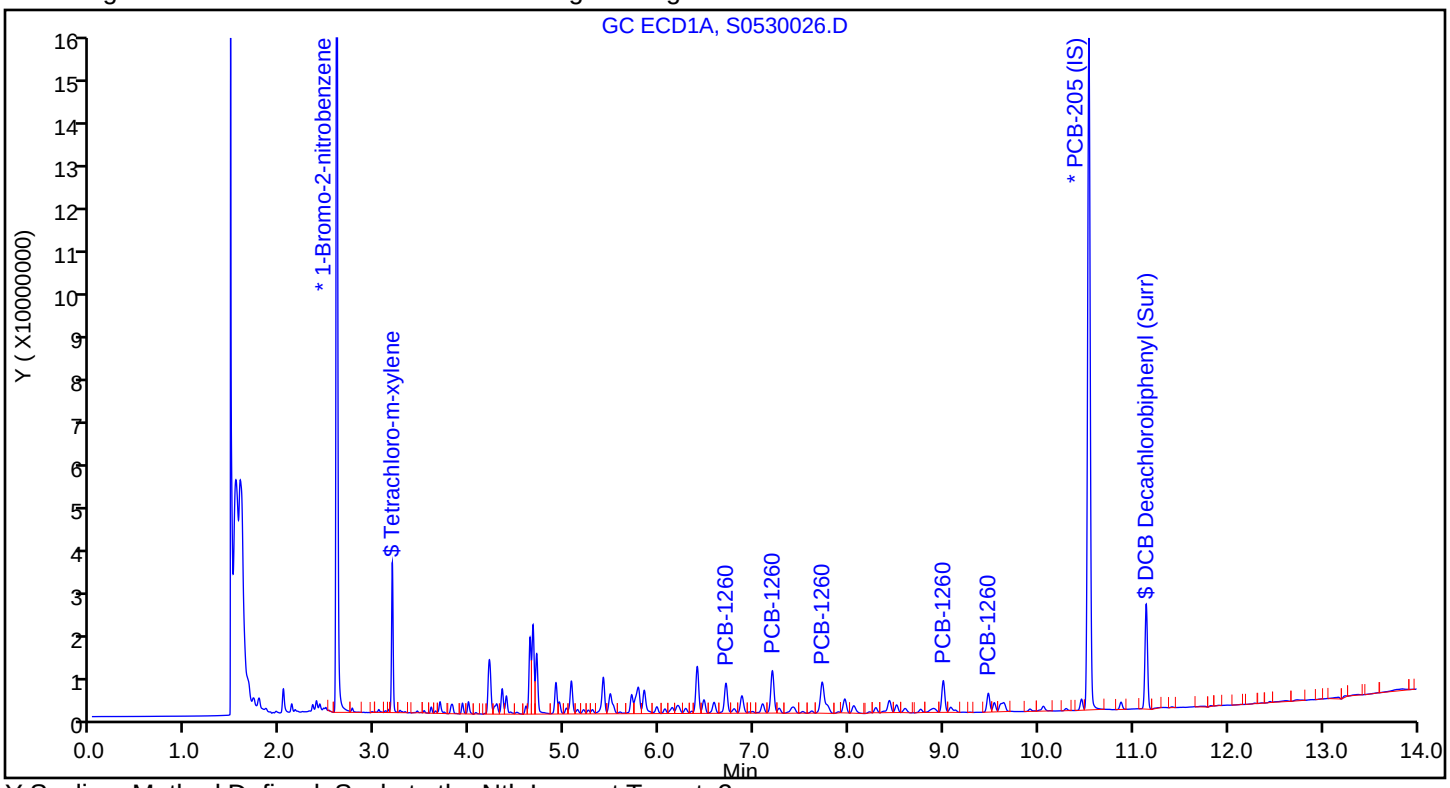
Report Date: 31-May-2018 06:28:52 Chrom Revision: 2.2 11-May-2018 08:54:46

TestAmerica Pittsburgh

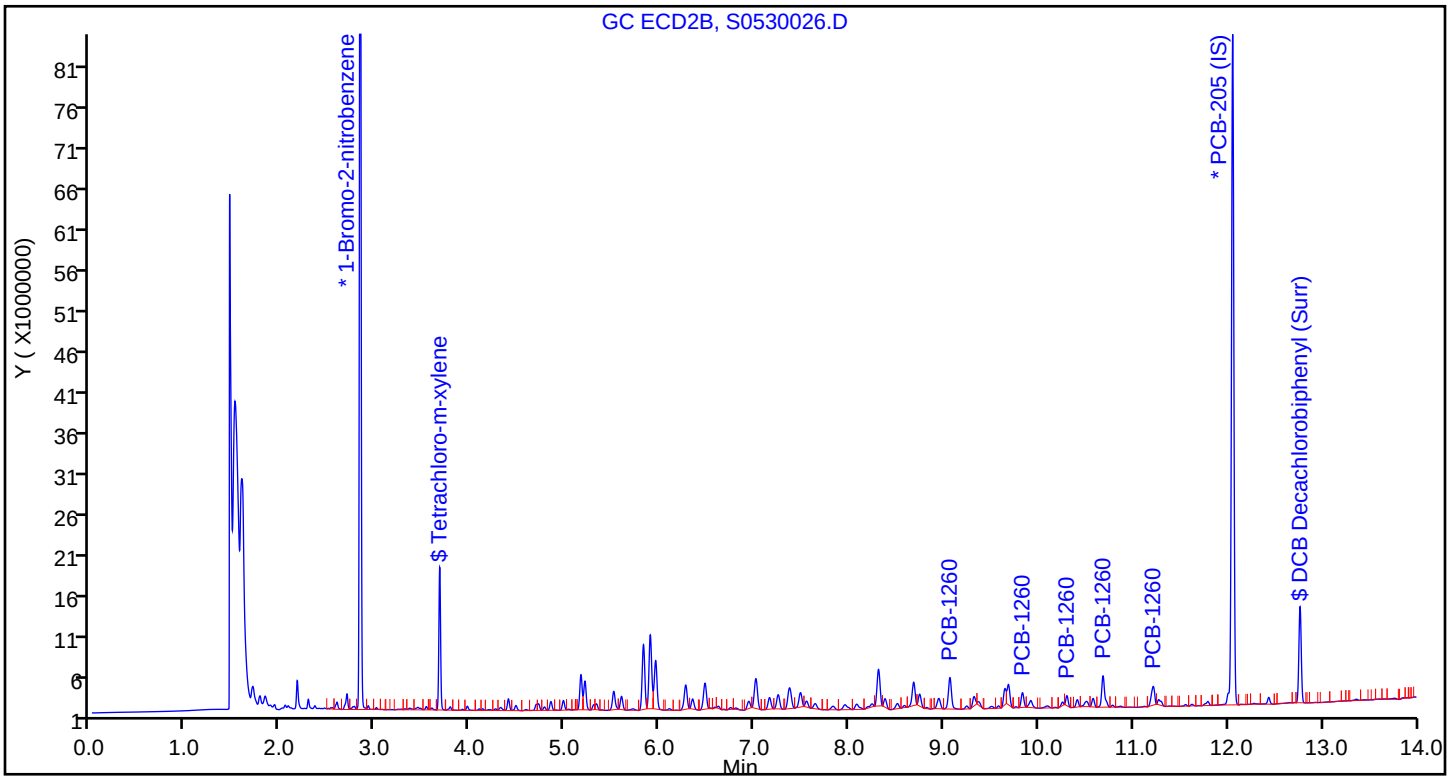
Data File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180530-21981.b\S0530026.D

Injection Date:	30-May-2018 13:17:21	Instrument ID:	CHGC10		
Lims ID:	180-78164-A-6-A	Lab Sample ID:	180-78164-6		
Client ID:	CE-MW-29R5_052318				
Operator ID:		ALS Bottle#:	26	Worklist Smp#:	26
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	IS PCB_CHGC10DUAL	Limit Group:	GCS 8082A ICAL with IS		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



User Disabled Compound Report

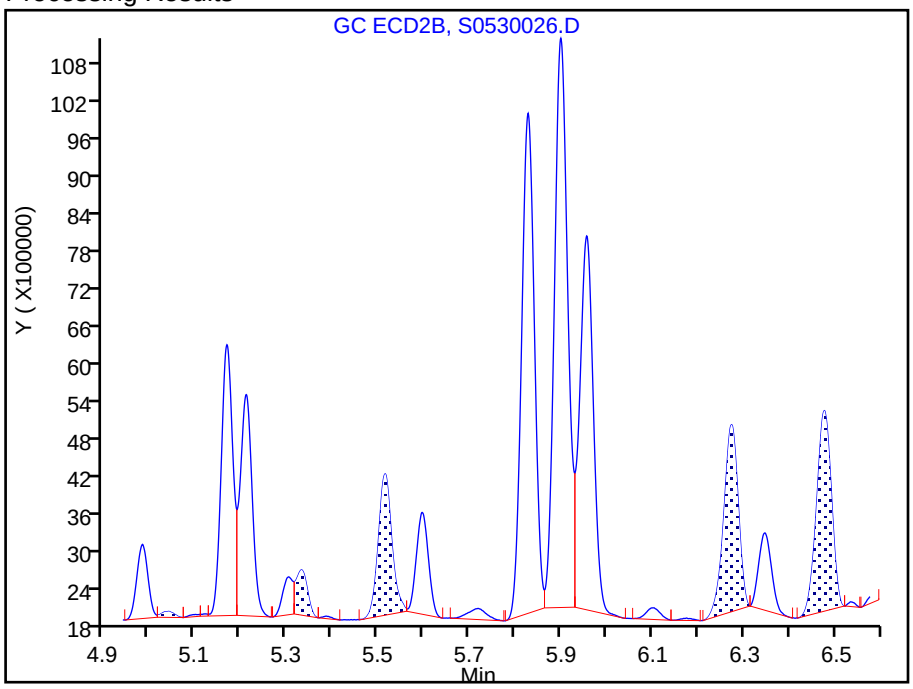
TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180530-21981.b\S0530026.D
Injection Date: 30-May-2018 13:17:21 Instrument ID: CHGC10
Lims ID: 180-78164-A-6-A Lab Sample ID: 180-78164-6
Client ID: CE-MW-29R5_052318
Operator ID: ALS Bottle#: 26 Worklist Smp#: 26
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: IS PCB_CHGC10DUAL Limit Group: GCS 8082A ICAL with IS

6 PCB-1016, Detector: 2, GC ECD2B

Processing Results

Exp RT	RT	Response	Amount
5.03	5.04	94863	0.007489
5.33	5.33	722501	0.018848
5.53	5.51	2254877	0.103167
6.27	6.27	2982969	0.168705
6.48	6.48	3200827	0.216910
		Average =	0.084541



Reviewer: oravecj, 31-May-2018 06:27:29
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

User Disabled Compound Report

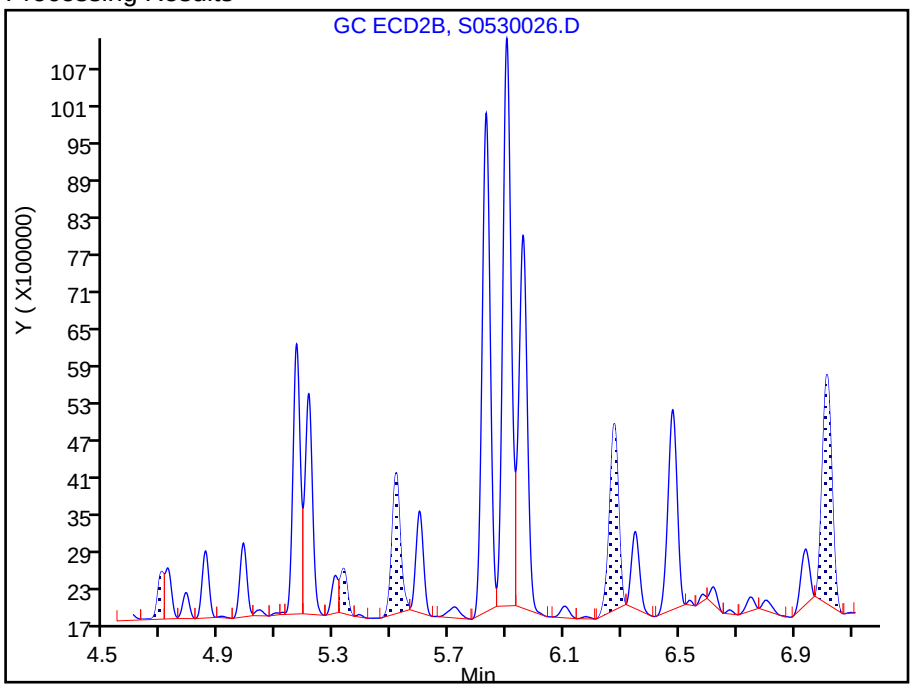
TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CHGC10\20180530-21981.b\S0530026.D		
Injection Date:	30-May-2018 13:17:21	Instrument ID:	CHGC10
Lims ID:	180-78164-A-6-A	Lab Sample ID:	180-78164-6
Client ID:	CE-MW-29R5_052318		
Operator ID:		ALS Bottle#:	26 Worklist Smp#: 26
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	IS PCB_CHGC10DUAL	Limit Group:	GCS 8082A ICAL with IS

5 PCB-1242, Detector: 2, GC ECD2B

Processing Results

Exp RT	RT	Response	Amount
4.69	4.70	763482	0.037616
5.33	5.33	722501	0.022648
5.53	5.51	2254877	0.122872
6.27	6.27	2982969	0.196371
7.02	7.01	3667372	0.237327
		Average =	0.123367



Reviewer: oravecj, 31-May-2018 06:27:28

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

User Disabled Compound Report

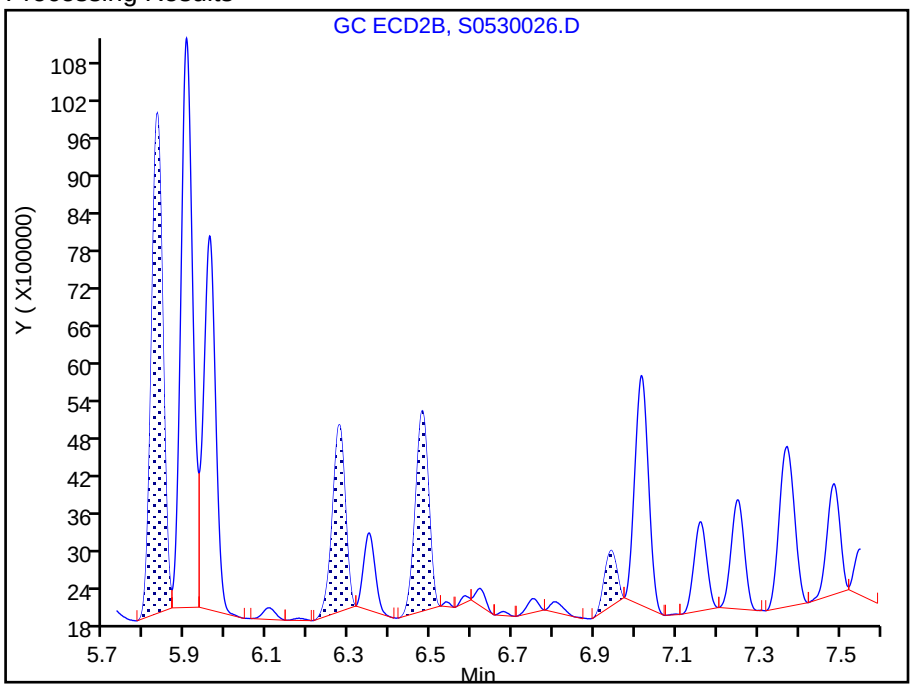
TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CHGC10\20180530-21981.b\S0530026.D		
Injection Date:	30-May-2018 13:17:21	Instrument ID:	CHGC10
Lims ID:	180-78164-A-6-A	Lab Sample ID:	180-78164-6
Client ID:	CE-MW-29R5_052318		
Operator ID:		ALS Bottle#:	26 Worklist Smp#: 26
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	IS PCB_CHGC10DUAL	Limit Group:	GCS 8082A ICAL with IS

7 PCB-1248, Detector: 2, GC ECD2B

Processing Results

Exp RT	RT	Response	Amount
5.82	5.83	7983801	0.405712
6.27	6.27	2982969	0.124784
6.48	6.48	3200827	0.163150
6.93	6.94	886211	0.035776
7.45			
		Average =	0.182356



Reviewer: oravecj, 31-May-2018 06:27:41

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

User Disabled Compound Report

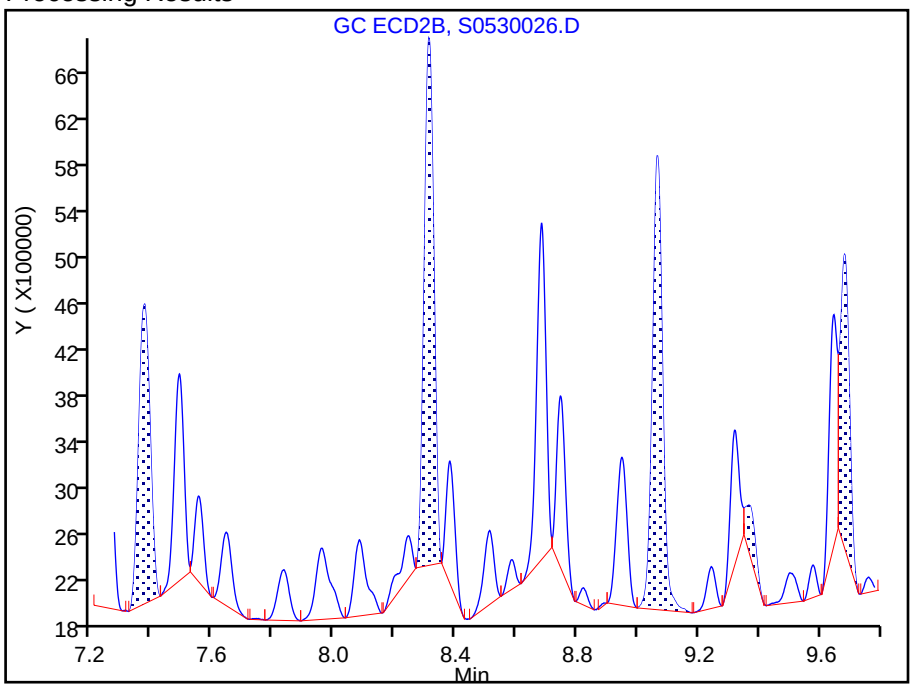
TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CHGC10\20180530-21981.b\S0530026.D		
Injection Date:	30-May-2018 13:17:21	Instrument ID:	CHGC10
Lims ID:	180-78164-A-6-A	Lab Sample ID:	180-78164-6
Client ID:	CE-MW-29R5_052318		
Operator ID:		ALS Bottle#:	26 Worklist Smp#: 26
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	IS PCB_CHGC10DUAL	Limit Group:	GCS 8082A ICAL with IS

8 PCB-1254, Detector: 2, GC ECD2B

Processing Results

Exp RT	RT	Response	Amount
7.36	7.37	2558420	0.087124
8.30	8.31	4503195	0.142337
9.06	9.06	3875858	0.205387
9.36	9.37	401513	0.017328
9.68	9.68	2508444	0.070539
		Average =	0.104543



Reviewer: oravecj, 31-May-2018 06:27:50

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-78164-1

SDG No.:

Client Sample ID: CE-MW-28R5_052318 | Lab Sample ID: 180-78164-7

Matrix: Water | Lab File ID: S0530027.D

Analysis Method: 8082A | Date Collected: 05/23/2018 18:26

Extraction Method: 3510C | Date Extracted: 05/29/2018 14:00

Sample wt/vol: 980(mL) | Date Analyzed: 05/30/2018 13:36

Con. Extract Vol.: 1.0(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RTX-CLP1 ID: 0.53(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 246135 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	Arochlor 1016	0.0049	U	0.010	0.0049
11104-28-2	Arochlor 1221	0.0058	U	0.010	0.0058
11141-16-5	Arochlor 1232	0.0053	U	0.010	0.0053
53469-21-9	Arochlor 1242	0.0093	U	0.010	0.0093
12672-29-6	Arochlor 1248	0.0031	U	0.010	0.0031
11097-69-1	Arochlor 1254	0.0097	U	0.010	0.0097
11096-82-5	Arochlor 1260	0.038		0.010	0.0040

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl (Surr)	88		46-126
877-09-8	Tetrachloro-m-xylene	70		36-130

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180530-21981.b\S0530027.D
Lims ID: 180-78164-A-7-A
Client ID: CE-MW-28R5_052318
Sample Type: Client
Inject. Date: 30-May-2018 13:36:07 ALS Bottle#: 27 Worklist Smp#: 27
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0021981-027
Operator ID: Instrument ID: CHGC10

Method: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180530-21981.b\IS PCB_CHGC10DUAL.m
Limit Group: GCS 8082A ICAL with IS
Last Update: 31-May-2018 06:28:26 Calib Date: 01-Mar-2018 20:27:10
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\S0301050.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK028

First Level Reviewer: oravecj Date: 31-May-2018 06:28:09

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng	Flags
* 1 1-Bromo-2-nitrobenzene						
1	2.588	2.585	0.003	230691565	H 0.1000	
2	2.835	2.831	0.004	147841372	H 0.1000	
$ 2 Tetrachloro-m-xylene						
1	3.174	3.173	0.001	35744428	H 0.0140	
2	3.674	3.672	0.002	18634189	H 0.0141	
					RPD = 0.58	
3 PCB-1221						
1		3.307			ND	
1		3.433				
1		3.471				
2		3.207				
2		3.964				
2		4.196				
4 PCB-1232						
1		3.308			ND	
1		3.795				
1		4.001				
1		4.421				
1		4.900				
2		3.966				
2		4.691				
2		5.028				
2		5.525				
2		5.684				

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng	Flags
6	PCB-1016					U
1		3.474			ND	
1		3.796				
1		4.276				
1		4.420				
1		4.901				
2		5.029				
2		5.327				
2		5.526				
2		6.270				
2		6.481				
5	PCB-1242					U
1		3.475			ND	
1		4.278				
1		4.423				
1		4.903				
1		5.466				
2		4.694				
2		5.329				
2		5.528				
2		6.271				
2		7.021				
7	PCB-1248					U
1		4.254			ND	
1		4.629				
1		4.901				
1		5.465				
1		5.784				
2		5.824				
2		6.269				
2		6.482				
2		6.934				
2		7.453				
8	PCB-1254					U
1		5.397			ND	
1		5.771				
1		6.389				
1		6.860				
1		7.184				
2		7.357				
2		8.303				
2		9.058				
2		9.361				
2		9.679				

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng	Flags
10 PCB-1262						U
1		6.694			ND	
1		7.184				
1		7.950				
1		8.422				
1		9.531				
2		8.678				
2		9.826				
2		10.297				
2		10.678				
2		11.205				
9 PCB-1260						
1	6.699	6.696	0.003	2157032H	0.0365	
1	7.190	7.186	0.004	3316370H	0.0383	
1	7.718	7.715	0.003	2530928H	0.0398	
1	8.996	8.992	0.004	4022091H	0.0338	
1	9.472	9.469	0.003	2427831H	0.0364	
		Average of Peak Amounts =			0.0370	
2	9.065	9.060	0.005	1462230H	0.0381	
2	9.832	9.828	0.004	939701H	0.0344	
2	10.301	10.298	0.003	847042H	0.0283	
2	10.682	10.679	0.003	2253161H	0.0322	
2	11.214	11.212	0.002	1372571H	0.0351	
		Average of Peak Amounts =			0.0336	
					RPD = 9.42	
11 PCB-1268						U
1		9.533			ND	
1		9.597				
1		9.906				
1		10.870				
2		11.200				
2		11.267				
2		11.620				
2		12.432				
* 46 PCB-205 (IS)						
1	10.533	10.528	0.005	155536826H	0.1000	
2	12.052	12.048	0.004	86540974H	0.1000	
$ 12 DCB Decachlorobiphenyl (Surr)						
1	11.140	11.137	0.003	24225279H	0.0176	
2	12.765	12.762	0.003	12352840H	0.0169	
					RPD = 4.05	
13 1260 Res 2						
1		0.000			ND	
2		0.000				
14 1260 Res 3						
1		0.000			ND	
2		0.000				
15 1260 Res 1						
1		0.000			ND	
2		0.000				

QC Flag Legend

Review Flags

U - Marked Undetected

Reagents:

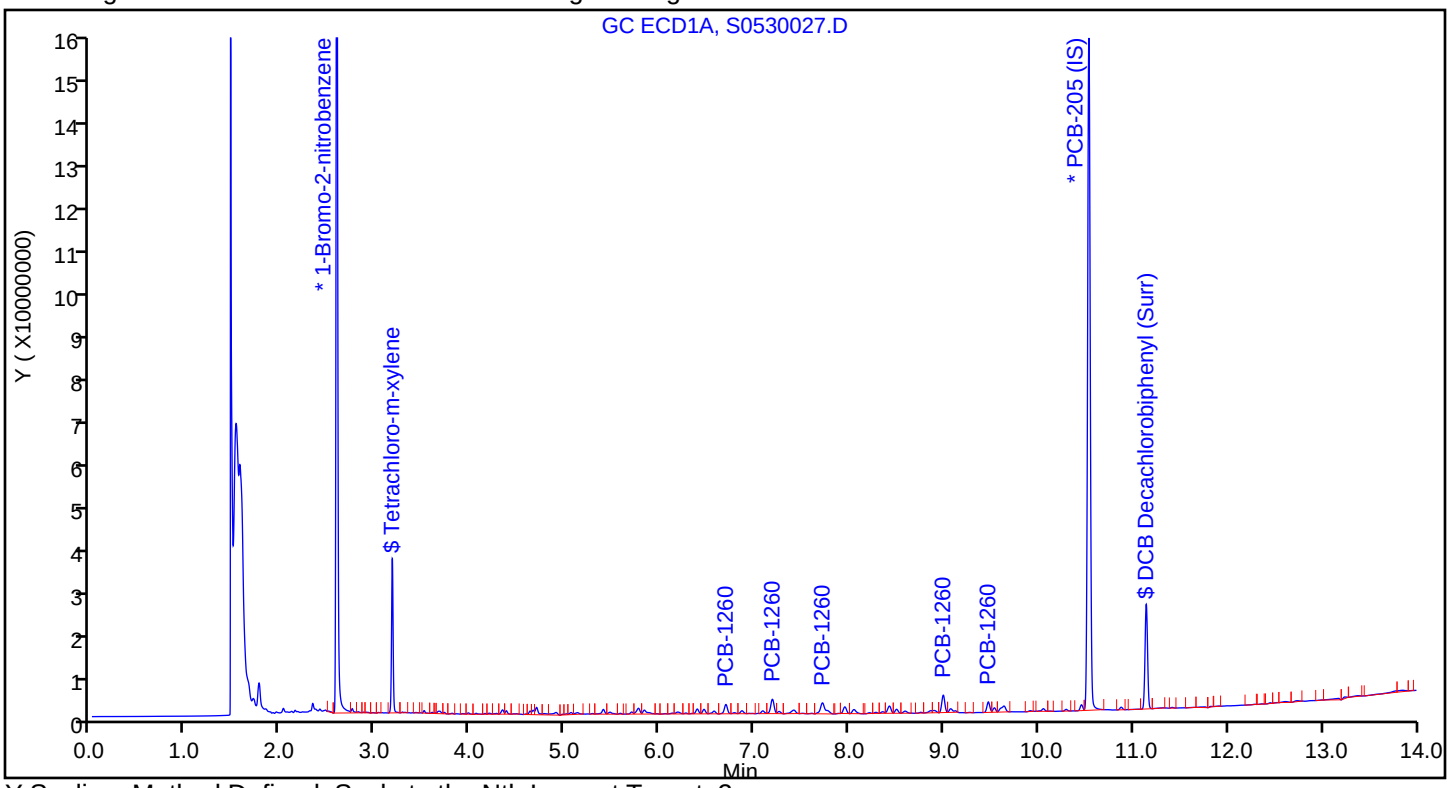
PCBINT_00007 Amount Added: 0.01 Units: mL Run Reagent

Report Date: 31-May-2018 06:28:48 Chrom Revision: 2.2 11-May-2018 08:54:46

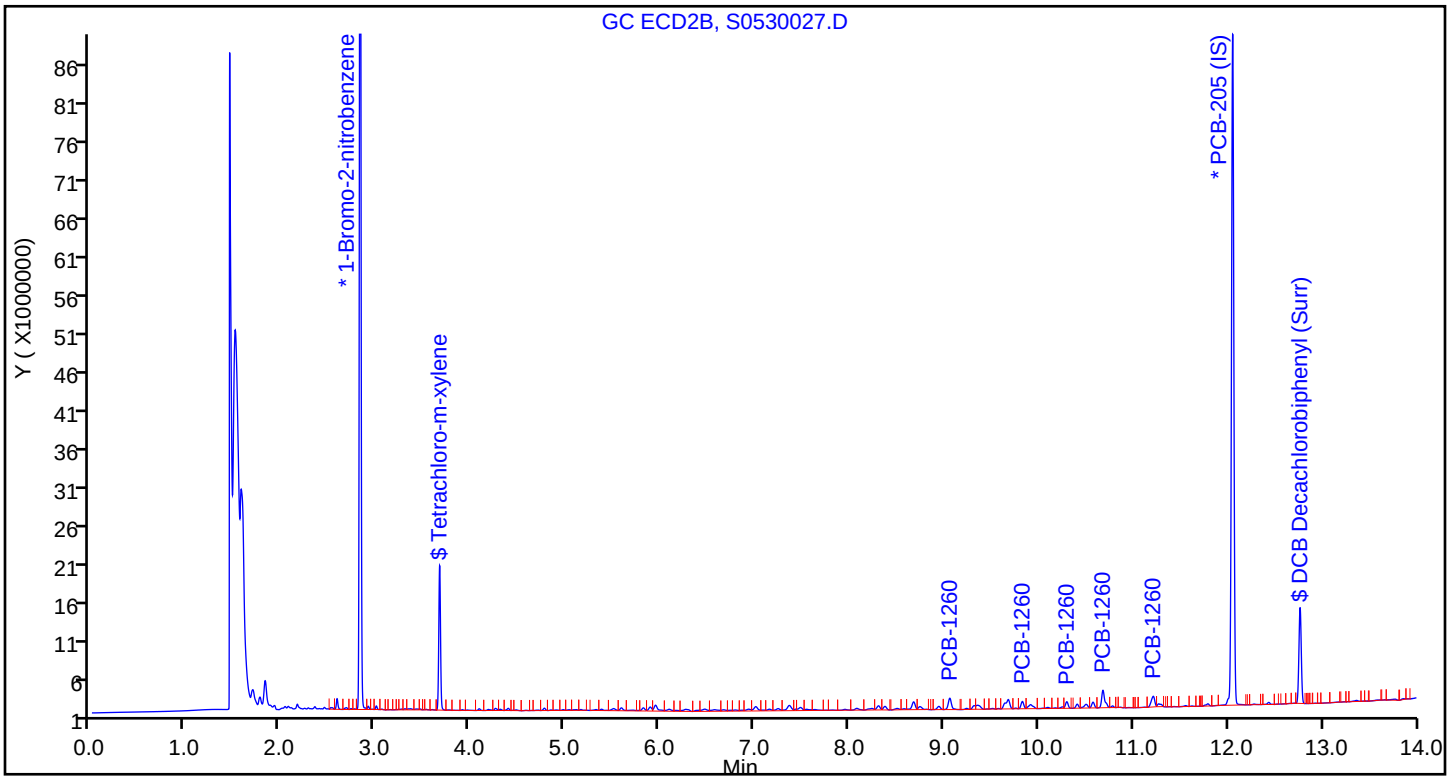
TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CHGC10\20180530-21981.b\S0530027.D				
Injection Date:	30-May-2018 13:36:07	Instrument ID:	CHGC10		
Lims ID:	180-78164-A-7-A	Lab Sample ID:	180-78164-7		
Client ID:	CE-MW-28R5_052318				
Operator ID:		ALS Bottle#:	27	Worklist Smp#:	27
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	IS PCB_CHGC10DUAL	Limit Group:	GCS 8082A ICAL with IS		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Report Date: 31-May-2018 06:28:49 Chrom Revision: 2.2 11-May-2018 08:54:46

User Disabled Compound Report

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180530-21981.b\S0530027.D

Injection Date: 30-May-2018 13:36:07 Instrument ID: CHGC10

Lims ID: 180-78164-A-7-A Lab Sample ID: 180-78164-7

Client ID: CE-MW-28R5_052318

Operator ID: ALS Bottle#: 27 Worklist Smp#: 27

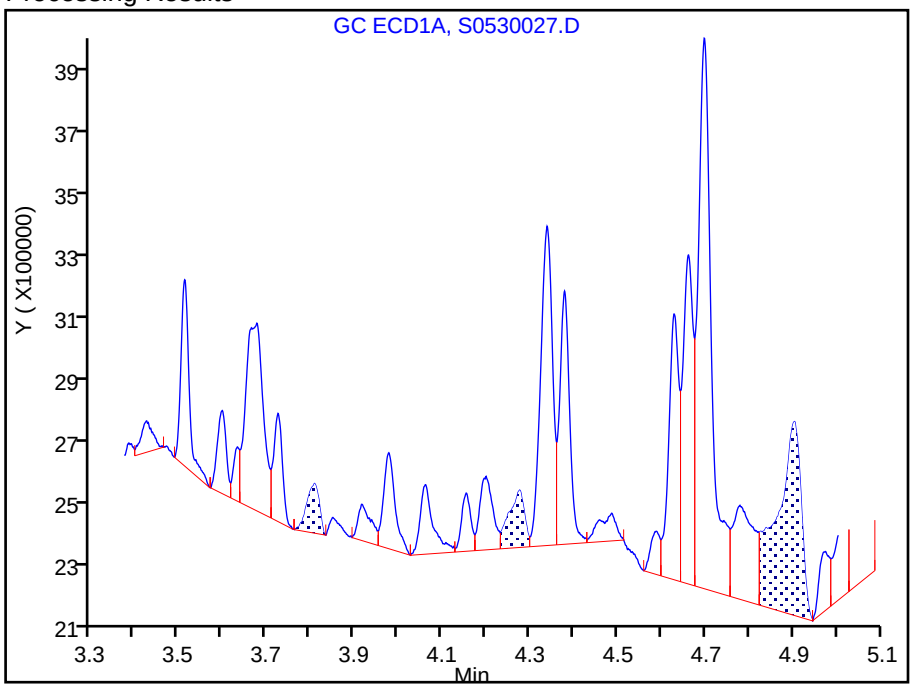
Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: IS PCB_CHGC10DUAL Limit Group: GCS 8082A ICAL with IS

6 PCB-1016, Detector: 1, GC ECD1A

Processing Results

Exp RT	RT	Response	Amount
3.47			
3.80	3.81	153096	0.002760
4.28	4.28	176585	0.002162
4.42			
4.90	4.90	598161	0.014858
		Average =	0.006593



Reviewer: oravecj, 31-May-2018 06:28:03

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

User Disabled Compound Report

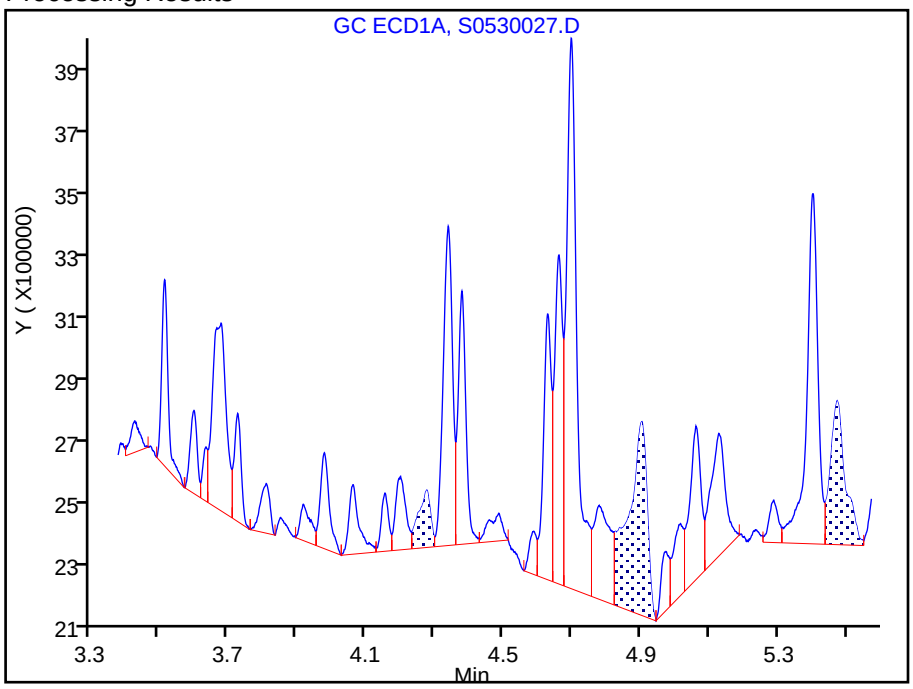
TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CHGC10\20180530-21981.b\S0530027.D		
Injection Date:	30-May-2018 13:36:07	Instrument ID:	CHGC10
Lims ID:	180-78164-A-7-A	Lab Sample ID:	180-78164-7
Client ID:	CE-MW-28R5_052318		
Operator ID:		ALS Bottle#:	27 Worklist Smp#: 27
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	IS PCB_CHGC10DUAL	Limit Group:	GCS 8082A ICAL with IS

5 PCB-1242, Detector: 1, GC ECD1A

Processing Results

Exp RT	RT	Response	Amount
3.48			
4.28	4.28	176585	0.002552
4.42			
4.90	4.90	598161	0.017097
5.47	5.47	443573	0.014875
		Average =	0.011508



Reviewer: oravecj, 31-May-2018 06:28:02

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

User Disabled Compound Report

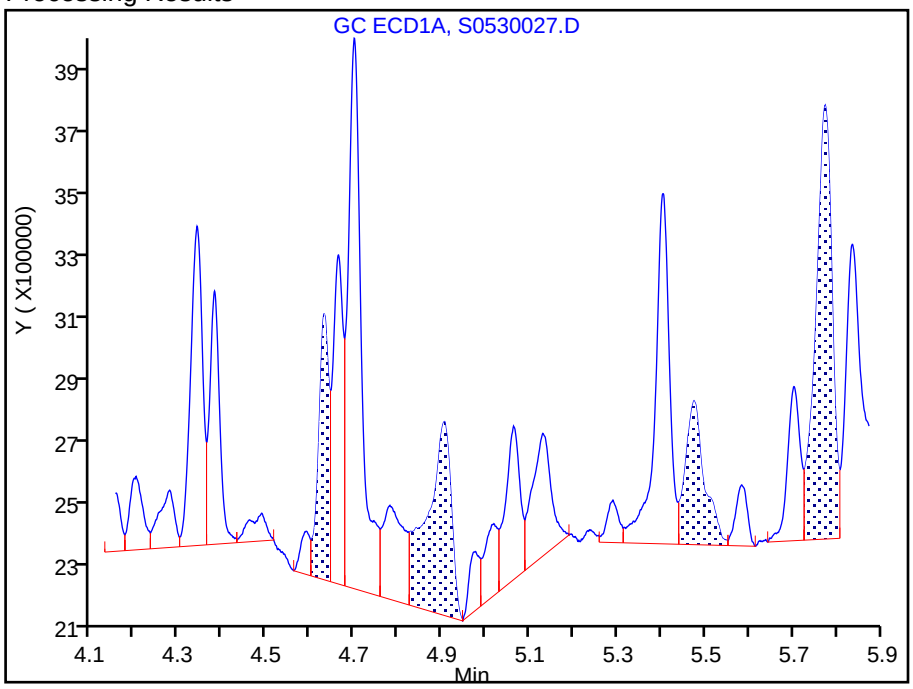
TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CHGC10\20180530-21981.b\S0530027.D		
Injection Date:	30-May-2018 13:36:07	Instrument ID:	CHGC10
Lims ID:	180-78164-A-7-A	Lab Sample ID:	180-78164-7
Client ID:	CE-MW-28R5_052318		
Operator ID:		ALS Bottle#:	27 Worklist Smp#: 27
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	IS PCB_CHGC10DUAL	Limit Group:	GCS 8082A ICAL with IS

7 PCB-1248, Detector: 1, GC ECD1A

Processing Results

Exp RT	RT	Response	Amount
4.25			
4.63	4.63	819214	0.018145
4.90	4.90	598161	0.010770
5.47	5.47	443573	0.008351
5.78	5.77	1337903	0.038430
		Average =	0.012482



Reviewer: oravecj, 31-May-2018 06:28:04

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

User Disabled Compound Report

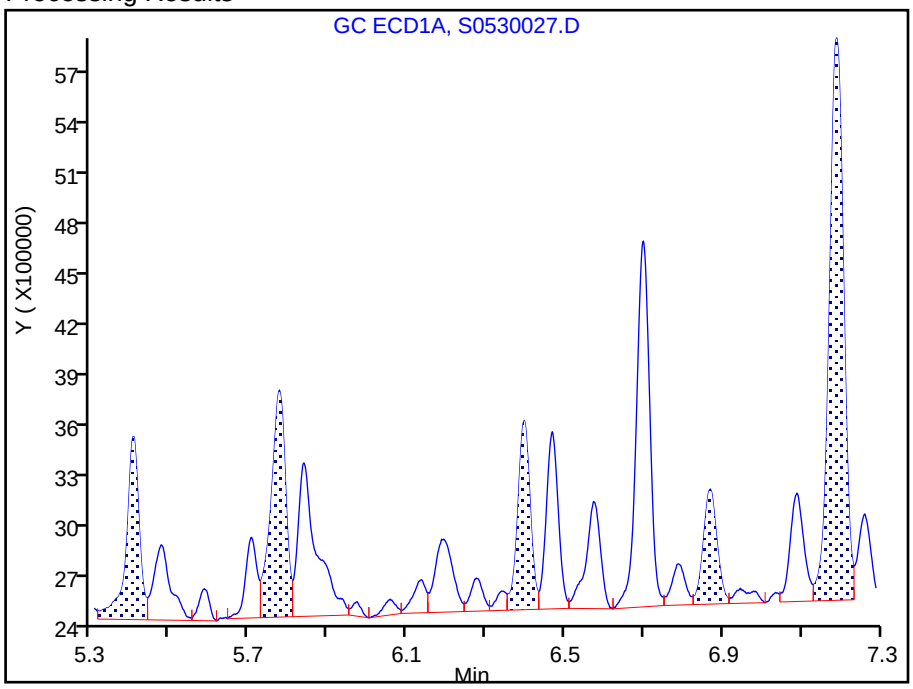
TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CHGC10\20180530-21981.b\S0530027.D		
Injection Date:	30-May-2018 13:36:07	Instrument ID:	CHGC10
Lims ID:	180-78164-A-7-A	Lab Sample ID:	180-78164-7
Client ID:	CE-MW-28R5_052318		
Operator ID:		ALS Bottle#:	27 Worklist Smp#: 27
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	IS PCB_CHGC10DUAL	Limit Group:	GCS 8082A ICAL with IS

8 PCB-1254, Detector: 1, GC ECD1A

Processing Results

Exp RT	RT	Response	Amount
5.40	5.40	1079472	0.019001
5.77	5.77	1337903	0.018794
6.39	6.40	1115012	0.012153
6.86	6.87	677941	0.011387
7.18	7.19	3316370	0.059785
		Average =	0.024224



Reviewer: oravecj, 31-May-2018 06:28:04

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh Job No.: 180-78164-1

SDG No.:

Client Sample ID: CE-MW-28R5_052318 Lab Sample ID: 180-78164-7

Matrix: Water Lab File ID: S0530027.D

Analysis Method: 8082A Date Collected: 05/23/2018 18:26

Extraction Method: 3510C Date Extracted: 05/29/2018 14:00

Sample wt/vol: 980(mL) Date Analyzed: 05/30/2018 13:36

Con. Extract Vol.: 1.0(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: RTX-CLP2 ID: 0.53(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 246135 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl (Surr)	85		46-126
877-09-8	Tetrachloro-m-xylene	70		36-130

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180530-21981.b\S0530027.D
Lims ID: 180-78164-A-7-A
Client ID: CE-MW-28R5_052318
Sample Type: Client
Inject. Date: 30-May-2018 13:36:07 ALS Bottle#: 27 Worklist Smp#: 27
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0021981-027
Operator ID: Instrument ID: CHGC10

Method: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180530-21981.b\IS PCB_CHGC10DUAL.m
Limit Group: GCS 8082A ICAL with IS
Last Update: 31-May-2018 06:28:26 Calib Date: 01-Mar-2018 20:27:10
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\S0301050.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK028

First Level Reviewer: oravecj Date: 31-May-2018 06:28:09

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng	Flags
* 1 1-Bromo-2-nitrobenzene						
1	2.588	2.585	0.003	230691565	H 0.1000	
2	2.835	2.831	0.004	147841372	H 0.1000	
$ 2 Tetrachloro-m-xylene						
1	3.174	3.173	0.001	35744428	H 0.0140	
2	3.674	3.672	0.002	18634189	H 0.0141	
					RPD = 0.58	
3 PCB-1221						
1		3.307			ND	
1		3.433				
1		3.471				
2		3.207				
2		3.964				
2		4.196				
4 PCB-1232						
1		3.308			ND	
1		3.795				
1		4.001				
1		4.421				
1		4.900				
2		3.966				
2		4.691				
2		5.028				
2		5.525				
2		5.684				

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng	Flags
6	PCB-1016					U
1		3.474			ND	
1		3.796				
1		4.276				
1		4.420				
1		4.901				
2		5.029				
2		5.327				
2		5.526				
2		6.270				
2		6.481				
5	PCB-1242					U
1		3.475			ND	
1		4.278				
1		4.423				
1		4.903				
1		5.466				
2		4.694				
2		5.329				
2		5.528				
2		6.271				
2		7.021				
7	PCB-1248					U
1		4.254			ND	
1		4.629				
1		4.901				
1		5.465				
1		5.784				
2		5.824				
2		6.269				
2		6.482				
2		6.934				
2		7.453				
8	PCB-1254					U
1		5.397			ND	
1		5.771				
1		6.389				
1		6.860				
1		7.184				
2		7.357				
2		8.303				
2		9.058				
2		9.361				
2		9.679				

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng	Flags
10 PCB-1262						U
1		6.694			ND	
1		7.184				
1		7.950				
1		8.422				
1		9.531				
2		8.678				
2		9.826				
2		10.297				
2		10.678				
2		11.205				
9 PCB-1260						
1	6.699	6.696	0.003	2157032H	0.0365	
1	7.190	7.186	0.004	3316370H	0.0383	
1	7.718	7.715	0.003	2530928H	0.0398	
1	8.996	8.992	0.004	4022091H	0.0338	
1	9.472	9.469	0.003	2427831H	0.0364	
		Average of Peak Amounts =			0.0370	
2	9.065	9.060	0.005	1462230H	0.0381	
2	9.832	9.828	0.004	939701H	0.0344	
2	10.301	10.298	0.003	847042H	0.0283	
2	10.682	10.679	0.003	2253161H	0.0322	
2	11.214	11.212	0.002	1372571H	0.0351	
		Average of Peak Amounts =			0.0336	
					RPD = 9.42	
11 PCB-1268						U
1		9.533			ND	
1		9.597				
1		9.906				
1		10.870				
2		11.200				
2		11.267				
2		11.620				
2		12.432				
* 46 PCB-205 (IS)						
1	10.533	10.528	0.005	155536826H	0.1000	
2	12.052	12.048	0.004	86540974H	0.1000	
$ 12 DCB Decachlorobiphenyl (Surr)						
1	11.140	11.137	0.003	24225279H	0.0176	
2	12.765	12.762	0.003	12352840H	0.0169	
					RPD = 4.05	
13 1260 Res 2						
1		0.000			ND	
2		0.000				
14 1260 Res 3						
1		0.000			ND	
2		0.000				
15 1260 Res 1						
1		0.000			ND	
2		0.000				

QC Flag Legend

Review Flags

U - Marked Undetected

Reagents:

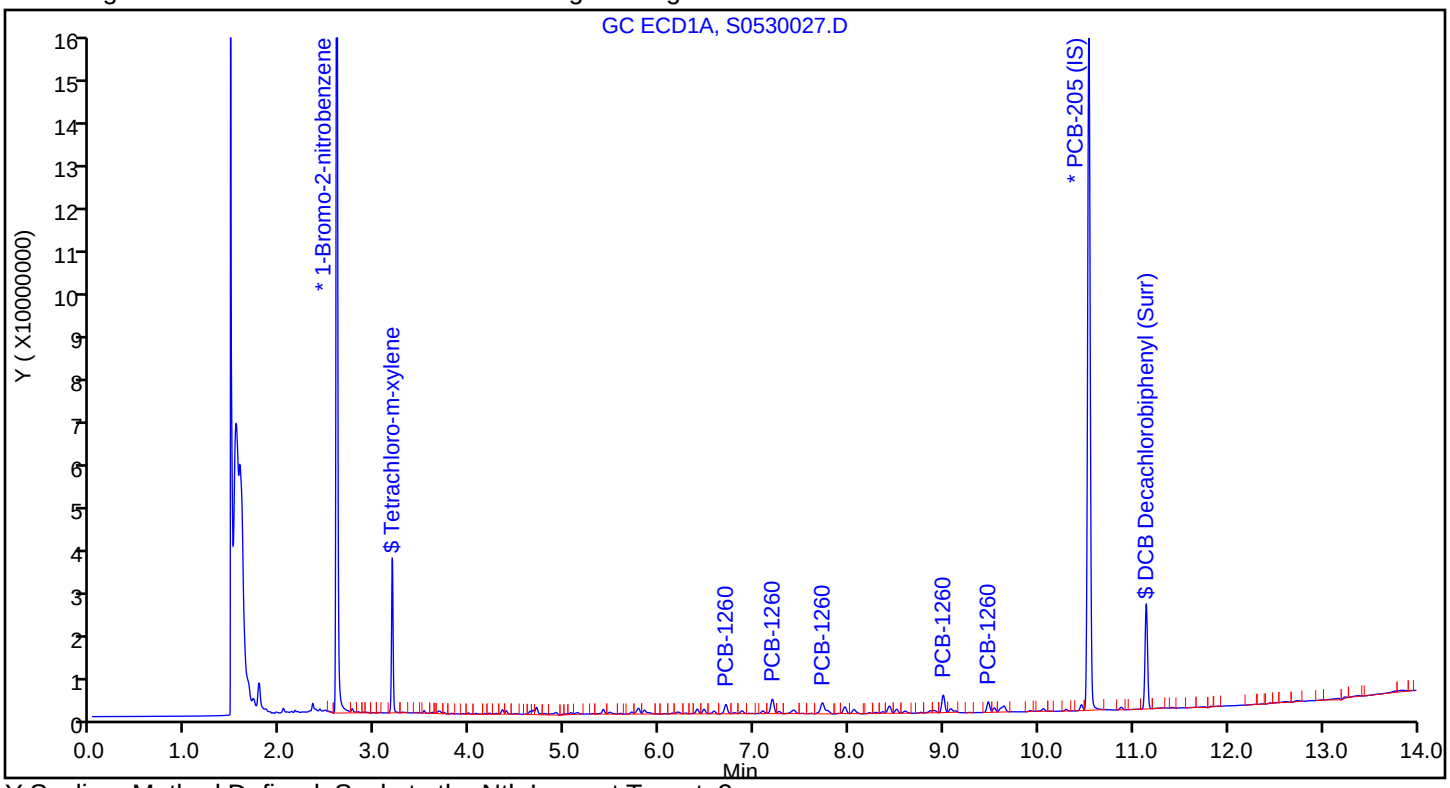
PCBINT_00007 Amount Added: 0.01 Units: mL Run Reagent

Report Date: 31-May-2018 06:28:49 Chrom Revision: 2.2 11-May-2018 08:54:46

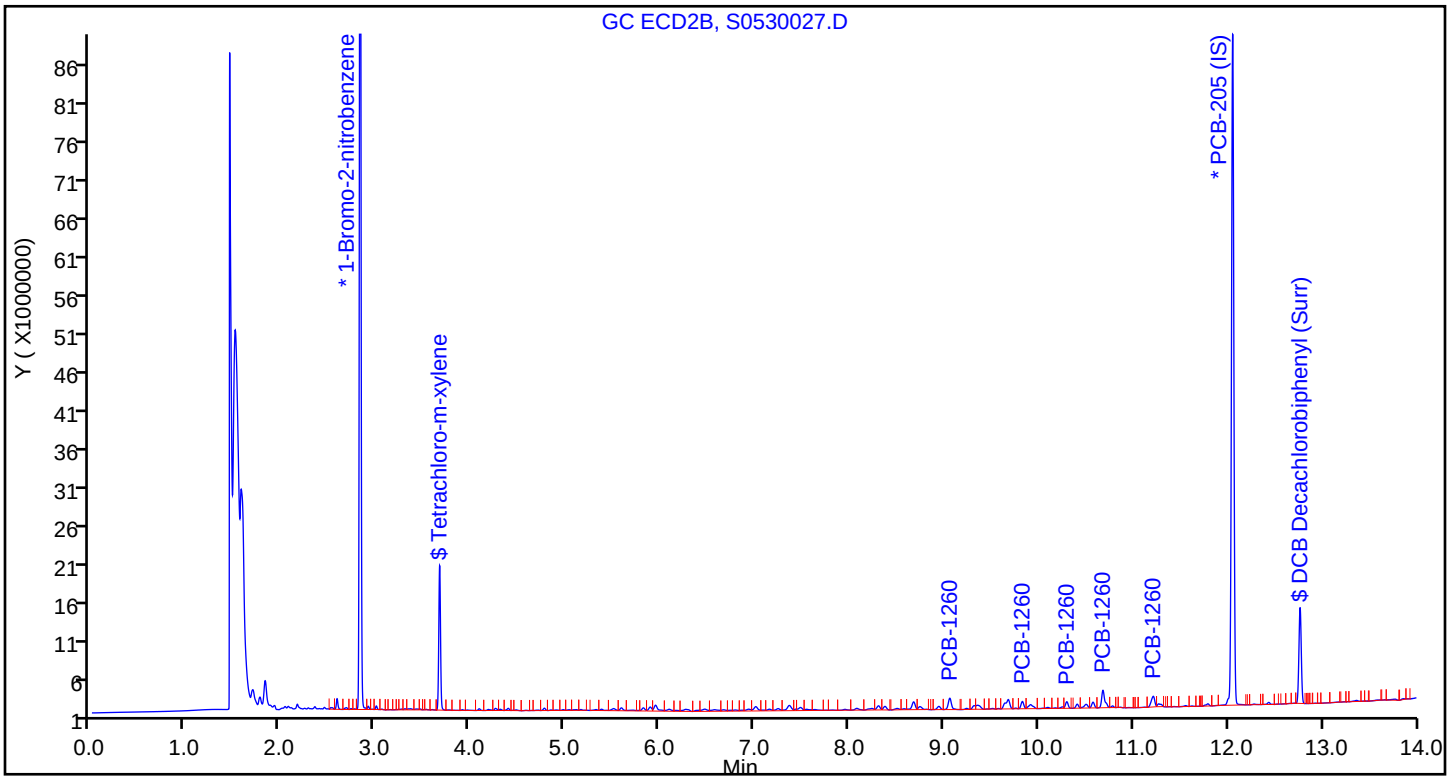
TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CHGC10\20180530-21981.b\S0530027.D				
Injection Date:	30-May-2018 13:36:07	Instrument ID:	CHGC10		
Lims ID:	180-78164-A-7-A	Lab Sample ID:	180-78164-7		
Client ID:	CE-MW-28R5_052318				
Operator ID:		ALS Bottle#:	27	Worklist Smp#:	27
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	IS PCB_CHGC10DUAL	Limit Group:	GCS 8082A ICAL with IS		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



User Disabled Compound Report

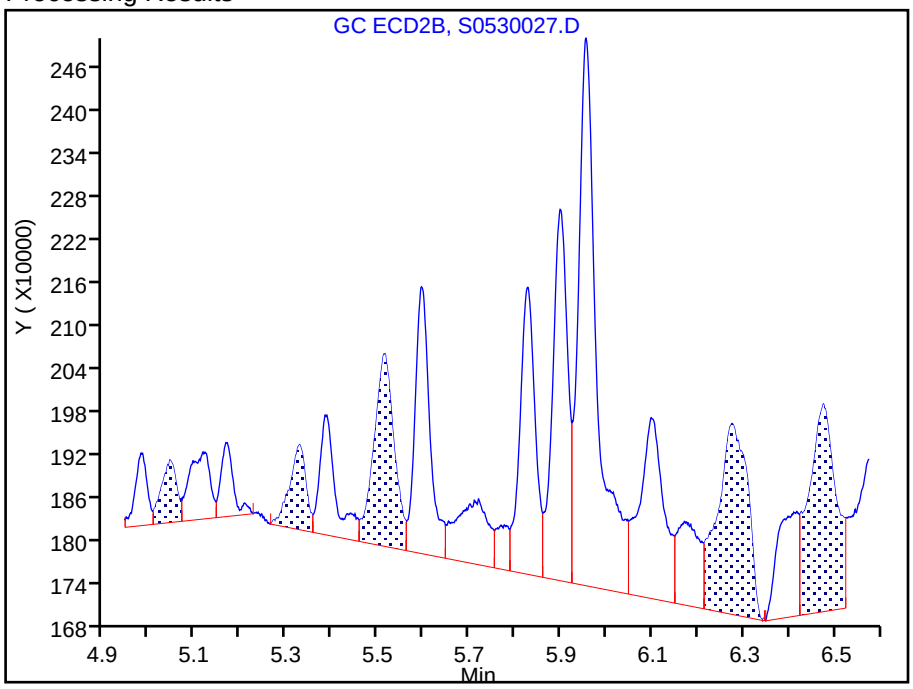
TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CHGC10\20180530-21981.b\S0530027.D		
Injection Date:	30-May-2018 13:36:07	Instrument ID:	CHGC10
Lims ID:	180-78164-A-7-A	Lab Sample ID:	180-78164-7
Client ID:	CE-MW-28R5_052318		
Operator ID:		ALS Bottle#:	27 Worklist Smp#: 27
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	IS PCB_CHGC10DUAL	Limit Group:	GCS 8082A ICAL with IS

6 PCB-1016, Detector: 2, GC ECD2B

Processing Results

Exp RT	RT	Response	Amount
5.03	5.04	86460	0.006518
5.33	5.33	117527	0.002928
5.53	5.51	266118	0.011627
6.27	6.27	263650	0.014240
6.48	6.48	286794	0.018560
		Average =	0.006593



Reviewer: oravecj, 31-May-2018 06:28:03

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

User Disabled Compound Report

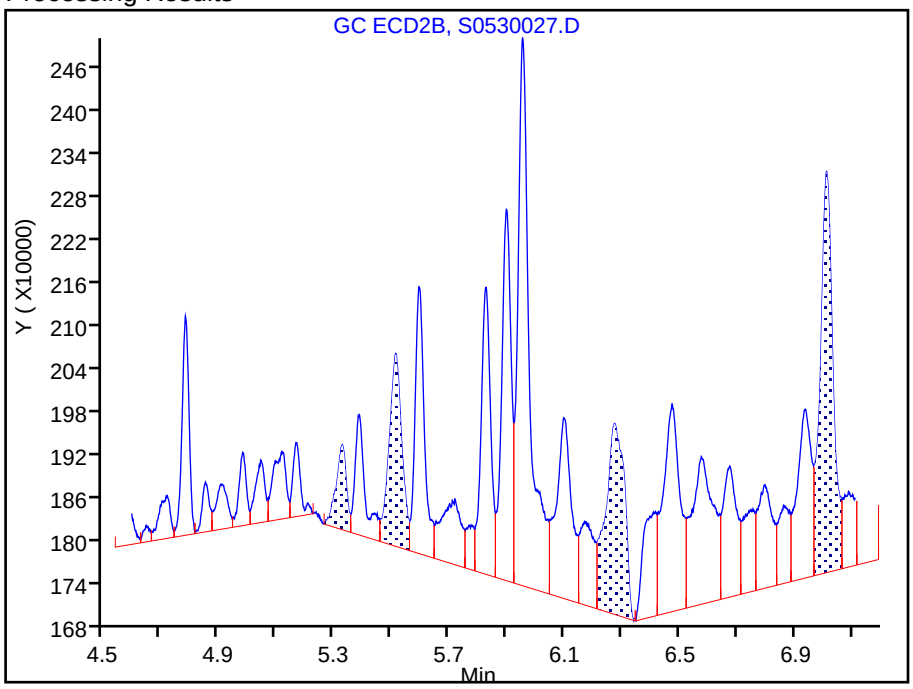
TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180530-21981.b\S0530027.D
Injection Date: 30-May-2018 13:36:07 Instrument ID: CHGC10
Lims ID: 180-78164-A-7-A Lab Sample ID: 180-78164-7
Client ID: CE-MW-28R5_052318
Operator ID: ALS Bottle#: 27 Worklist Smp#: 27
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: IS PCB_CHGC10DUAL Limit Group: GCS 8082A ICAL with IS

5 PCB-1242, Detector: 2, GC ECD2B

Processing Results

Exp RT	RT	Response	Amount
4.69			
5.33	5.33	117527	0.003518
5.53	5.51	266118	0.013848
6.27	6.27	263650	0.016575
7.02	7.01	553929	0.034232
		Average =	0.011508



Reviewer: oravecj, 31-May-2018 06:28:02
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

User Disabled Compound Report

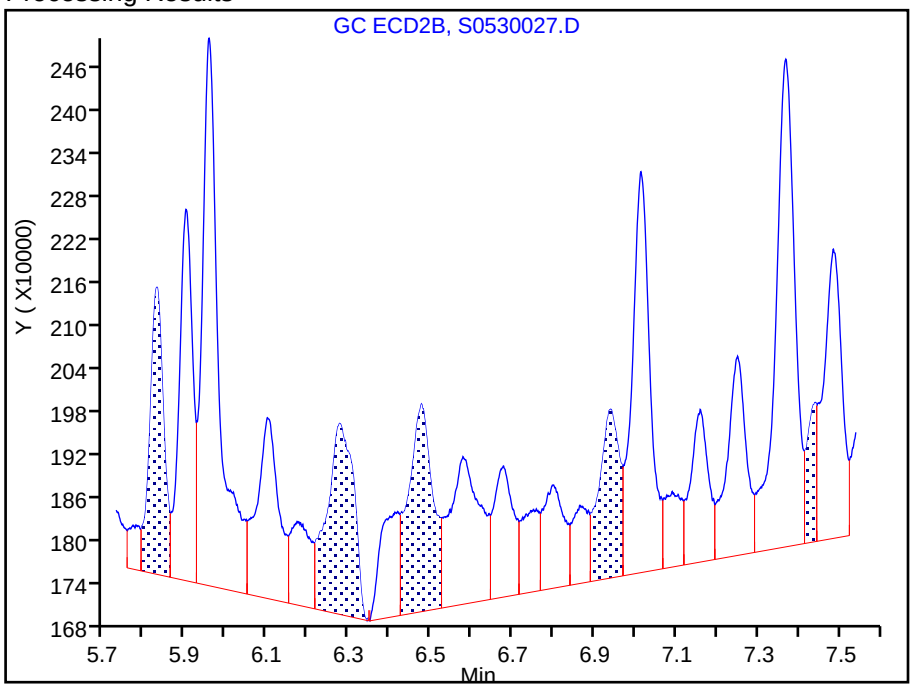
TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CHGC10\20180530-21981.b\S0530027.D		
Injection Date:	30-May-2018 13:36:07	Instrument ID:	CHGC10
Lims ID:	180-78164-A-7-A	Lab Sample ID:	180-78164-7
Client ID:	CE-MW-28R5_052318		
Operator ID:		ALS Bottle#:	27 Worklist Smp#: 27
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	IS PCB_CHGC10DUAL	Limit Group:	GCS 8082A ICAL with IS

7 PCB-1248, Detector: 2, GC ECD2B

Processing Results

Exp RT	RT	Response	Amount
5.82	5.83	396537	0.019243
6.27	6.27	263650	0.010532
6.48	6.48	286794	0.013960
6.93	6.94	233042	0.008984
7.45	7.44	192191	0.009689
		Average =	0.012482



Reviewer: oravecj, 31-May-2018 06:28:04

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

User Disabled Compound Report

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180530-21981.b\S0530027.D

Injection Date: 30-May-2018 13:36:07 Instrument ID: CHGC10

Lims ID: 180-78164-A-7-A Lab Sample ID: 180-78164-7

Client ID: CE-MW-28R5_052318

Operator ID: ALS Bottle#: 27 Worklist Smp#: 27

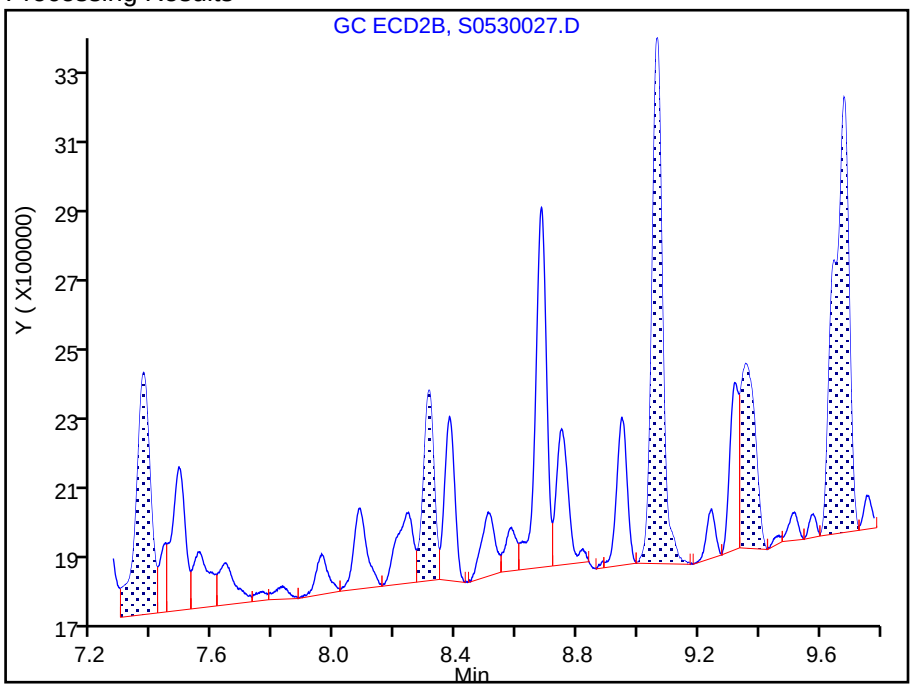
Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: IS PCB_CHGC10DUAL Limit Group: GCS 8082A ICAL with IS

8 PCB-1254, Detector: 2, GC ECD2B

Processing Results

Exp RT	RT	Response	Amount
7.36	7.37	673677	0.021870
8.30	8.31	529777	0.015964
9.06	9.06	1462230	0.073868
9.36	9.36	513251	0.021117
9.68	9.68	1210649	0.032455
		Average =	0.024224



Reviewer: oravecj, 31-May-2018 06:28:04

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-78164-1

SDG No.:

Client Sample ID: CE-MW-28R5A_052318 | Lab Sample ID: 180-78164-8

Matrix: Water | Lab File ID: S0530028.D

Analysis Method: 8082A | Date Collected: 05/23/2018 18:35

Extraction Method: 3510C | Date Extracted: 05/29/2018 14:00

Sample wt/vol: 980(mL) | Date Analyzed: 05/30/2018 13:54

Con. Extract Vol.: 1.0(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RTX-CLP1 ID: 0.53(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 246135 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	Arochlor 1016	0.0049	U	0.010	0.0049
11104-28-2	Arochlor 1221	0.0058	U	0.010	0.0058
11141-16-5	Arochlor 1232	0.0053	U	0.010	0.0053
53469-21-9	Arochlor 1242	0.0093	U	0.010	0.0093
12672-29-6	Arochlor 1248	0.0031	U	0.010	0.0031
11097-69-1	Arochlor 1254	0.0097	U	0.010	0.0097
11096-82-5	Arochlor 1260	0.014		0.010	0.0040

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl (Surr)	81		46-126
877-09-8	Tetrachloro-m-xylene	68		36-130

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180530-21981.b\S0530028.D
Lims ID: 180-78164-A-8-A
Client ID: CE-MW-28R5A_052318
Sample Type: Client
Inject. Date: 30-May-2018 13:54:53 ALS Bottle#: 28 Worklist Smp#: 28
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0021981-028
Operator ID: Instrument ID: CHGC10

Method: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180530-21981.b\IS PCB_CHGC10DUAL.m
Limit Group: GCS 8082A ICAL with IS
Last Update: 31-May-2018 06:28:26 Calib Date: 01-Mar-2018 20:27:10
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\S0301050.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK028

First Level Reviewer: oravecj Date: 31-May-2018 06:28:26

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng	Flags
* 1 1-Bromo-2-nitrobenzene						s
1	2.588	2.585	0.003	252692605	H 0.1000	
2	2.834	2.831	0.004	163004280	H 0.1000	
$ 2 Tetrachloro-m-xylene						
1	3.174	3.173	0.001	38194410	H 0.0137	
2	3.674	3.672	0.002	19176554	H 0.0131	
					RPD = 3.84	
3 PCB-1221						
1		3.307			ND	
1		3.433				
1		3.471				
2		3.207				
2		3.964				
2		4.196				
4 PCB-1232						
1		3.308			ND	
1		3.795				
1		4.001				
1		4.421				
1		4.900				
2		3.966				
2		4.691				
2		5.028				
2		5.525				
2		5.684				

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng	Flags
6	PCB-1016					U
1		3.474			ND	
1		3.796				
1		4.276				
1		4.420				
1		4.901				
2		5.029				
2		5.327				
2		5.526				
2		6.270				
2		6.481				
5	PCB-1242					U
1		3.475			ND	
1		4.278				
1		4.423				
1		4.903				
1		5.466				
2		4.694				
2		5.329				
2		5.528				
2		6.271				
2		7.021				
7	PCB-1248					U
1		4.254			ND	
1		4.629				
1		4.901				
1		5.465				
1		5.784				
2		5.824				
2		6.269				
2		6.482				
2		6.934				
2		7.453				
8	PCB-1254					U
1		5.397			ND	
1		5.771				
1		6.389				
1		6.860				
1		7.184				
2		7.357				
2		8.303				
2		9.058				
2		9.361				
2		9.679				

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng	Flags
10 PCB-1262						U
1		6.694			ND	
1		7.184				
1		7.950				
1		8.422				
1		9.531				
2		8.678				
2		9.826				
2		10.297				
2		10.678				
2		11.205				
9 PCB-1260						
1	6.697	6.696	0.001	989213H	0.0152	
1	7.189	7.186	0.003	1459847H	0.0153	
1	7.716	7.715	0.001	1059030H	0.0151	
1	8.994	8.992	0.002	1628758H	0.0124	
1	9.470	9.469	0.001	940418H	0.0128	
		Average of Peak Amounts =			0.0142	
2	9.062	9.060	0.002	629090H	0.0149	
2	9.831	9.828	0.003	358746H	0.0119	
2	10.299	10.298	0.001	328904H	0.0100	
2	10.682	10.679	0.003	891167H	0.0116	
2	11.207	11.212	-0.005	624249H	0.0145	
		Average of Peak Amounts =			0.0126	
					RPD = 12.02	
11 PCB-1268						U
1		9.533			ND	
1		9.597				
1		9.906				
1		10.870				
2		11.200				
2		11.267				
2		11.620				
2		12.432				
* 46 PCB-205 (IS)						s
1	10.532	10.528	0.004	171194286H	0.1000	
2	12.051	12.048	0.003	95332072H	0.1000	
$ 12 DCB Decachlorobiphenyl (Surr)						
1	11.138	11.137	0.001	24624025H	0.0163	
2	12.764	12.762	0.002	12272683H	0.0153	
					RPD = 6.42	
13 1260 Res 2						
1		0.000			ND	
2		0.000				
14 1260 Res 3						
1		0.000			ND	
2		0.000				
15 1260 Res 1						
1		0.000			ND	
2		0.000				

QC Flag Legend

Processing Flags

s - Failed ISTD Recovery Test

H - Response Measured by Height

Review Flags

U - Marked Undetected

Reagents:

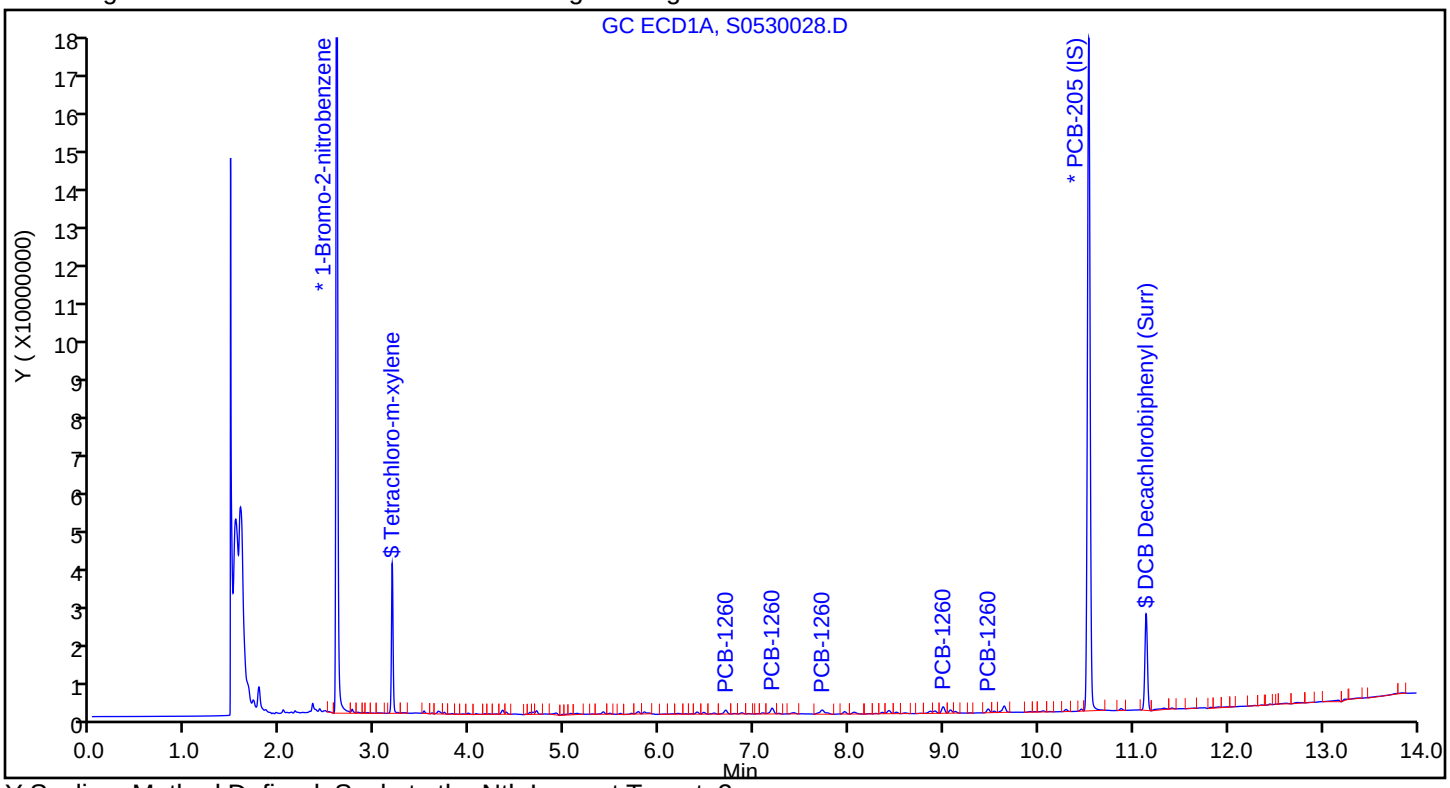
PCBINT_00007	Amount Added:	0.01	Units: mL	Run Reagent

Report Date: 31-May-2018 06:28:45 Chrom Revision: 2.2 11-May-2018 08:54:46

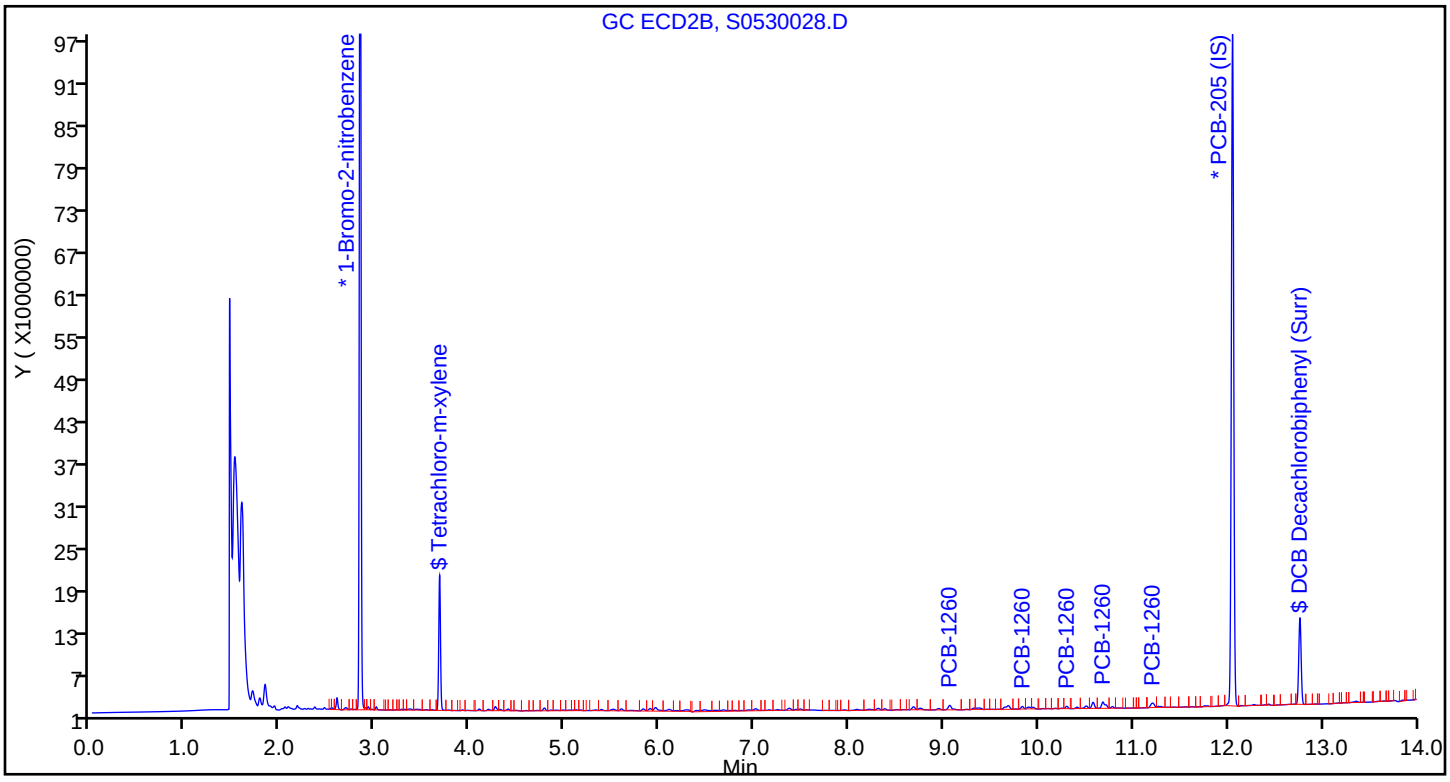
TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CHGC10\20180530-21981.b\S0530028.D				
Injection Date:	30-May-2018 13:54:53	Instrument ID:	CHGC10		
Lims ID:	180-78164-A-8-A	Lab Sample ID:	180-78164-8		
Client ID:	CE-MW-28R5A_052318				
Operator ID:		ALS Bottle#:	28	Worklist Smp#:	28
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	IS PCB_CHGC10DUAL	Limit Group:	GCS 8082A ICAL with IS		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



User Disabled Compound Report

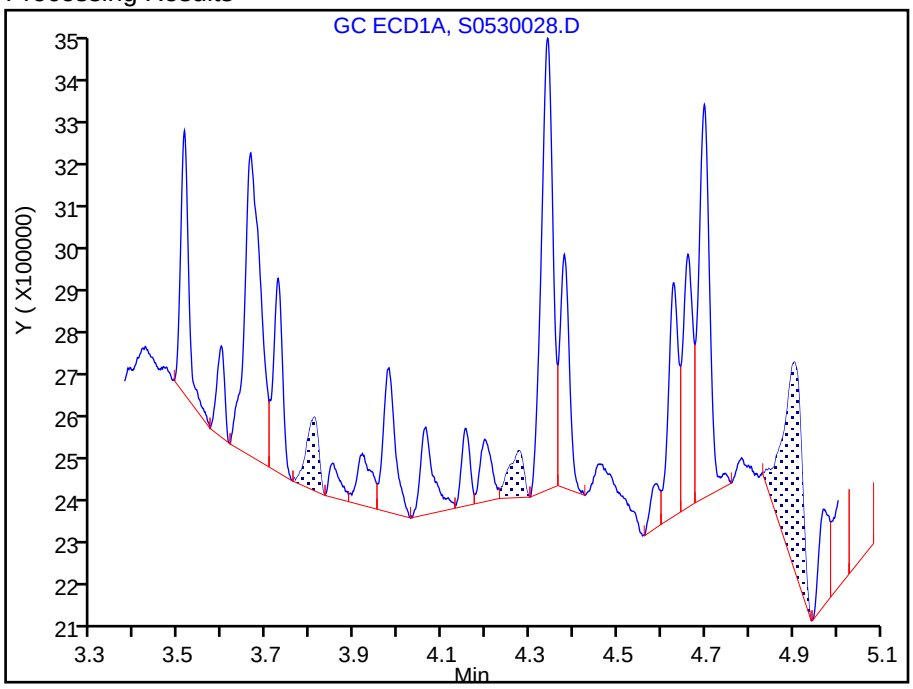
TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CHGC10\20180530-21981.b\S0530028.D		
Injection Date:	30-May-2018 13:54:53	Instrument ID:	CHGC10
Lims ID:	180-78164-A-8-A	Lab Sample ID:	180-78164-8
Client ID:	CE-MW-28R5A_052318		
Operator ID:		ALS Bottle#: 28	Worklist Smp#: 28
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	IS PCB_CHGC10DUAL	Limit Group:	GCS 8082A ICAL with IS

6 PCB-1016, Detector: 1, GC ECD1A

Processing Results

Exp RT	RT	Response	Amount
3.47			
3.80	3.81	168482	0.002773
4.28	4.28	107090	0.001197
4.42			
4.90	4.90	475556	0.010784
		Average =	0.004918



Reviewer: oravecj, 31-May-2018 06:28:17

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

User Disabled Compound Report

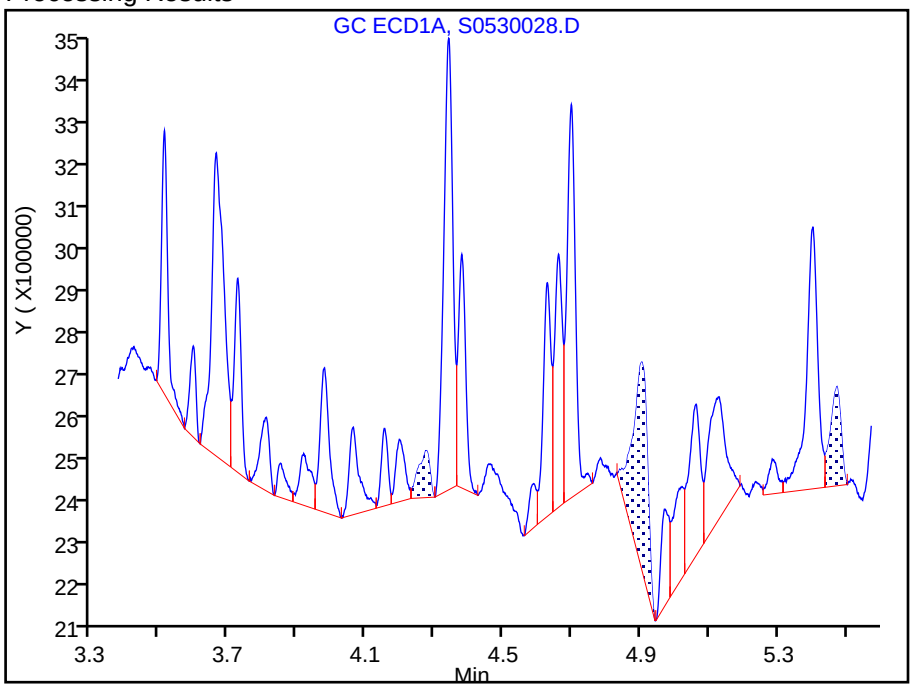
TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CHGC10\20180530-21981.b\S0530028.D		
Injection Date:	30-May-2018 13:54:53	Instrument ID:	CHGC10
Lims ID:	180-78164-A-8-A	Lab Sample ID:	180-78164-8
Client ID:	CE-MW-28R5A_052318		
Operator ID:		ALS Bottle#:	28 Worklist Smp#: 28
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	IS PCB_CHGC10DUAL	Limit Group:	GCS 8082A ICAL with IS

5 PCB-1242, Detector: 1, GC ECD1A

Processing Results

Exp RT	RT	Response	Amount
3.48			
4.28	4.28	107090	0.001413
4.42			
4.90	4.90	475556	0.012409
5.47	5.47	226842	0.006945
		Average =	0.006922



Reviewer: oravecj, 31-May-2018 06:28:17

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

User Disabled Compound Report

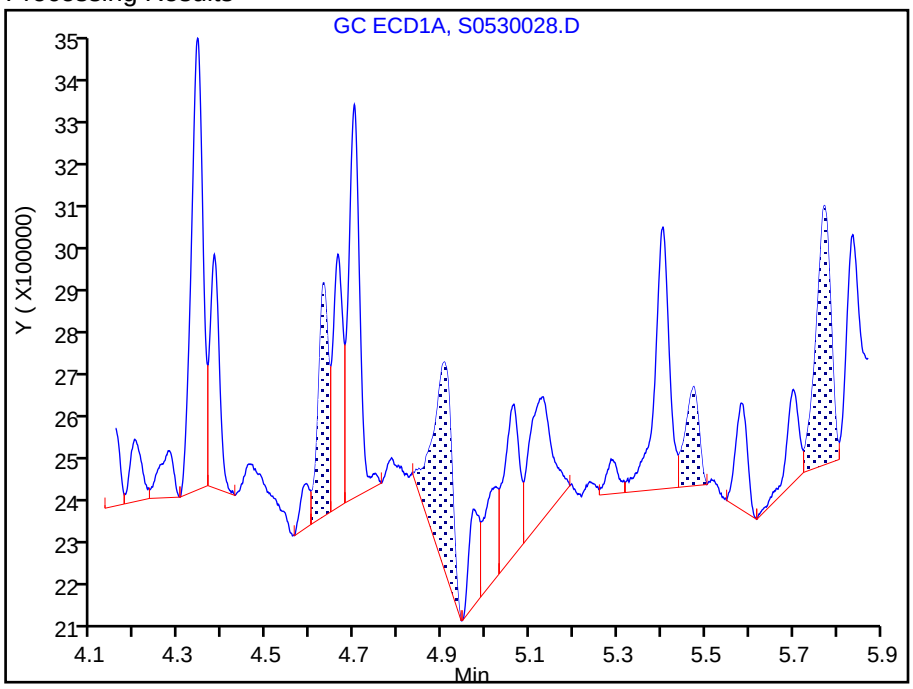
TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CHGC10\20180530-21981.b\S0530028.D		
Injection Date:	30-May-2018 13:54:53	Instrument ID:	CHGC10
Lims ID:	180-78164-A-8-A	Lab Sample ID:	180-78164-8
Client ID:	CE-MW-28R5A_052318		
Operator ID:		ALS Bottle#:	28 Worklist Smp#: 28
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	IS PCB_CHGC10DUAL	Limit Group:	GCS 8082A ICAL with IS

7 PCB-1248, Detector: 1, GC ECD1A

Processing Results

Exp RT	RT	Response	Amount
4.25			
4.63	4.63	534102	0.010800
4.90	4.90	475556	0.007817
5.47	5.47	226842	0.003899
5.78	5.77	592800	0.015545
		Average =	0.008268



Reviewer: oravecj, 31-May-2018 06:28:18

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

User Disabled Compound Report

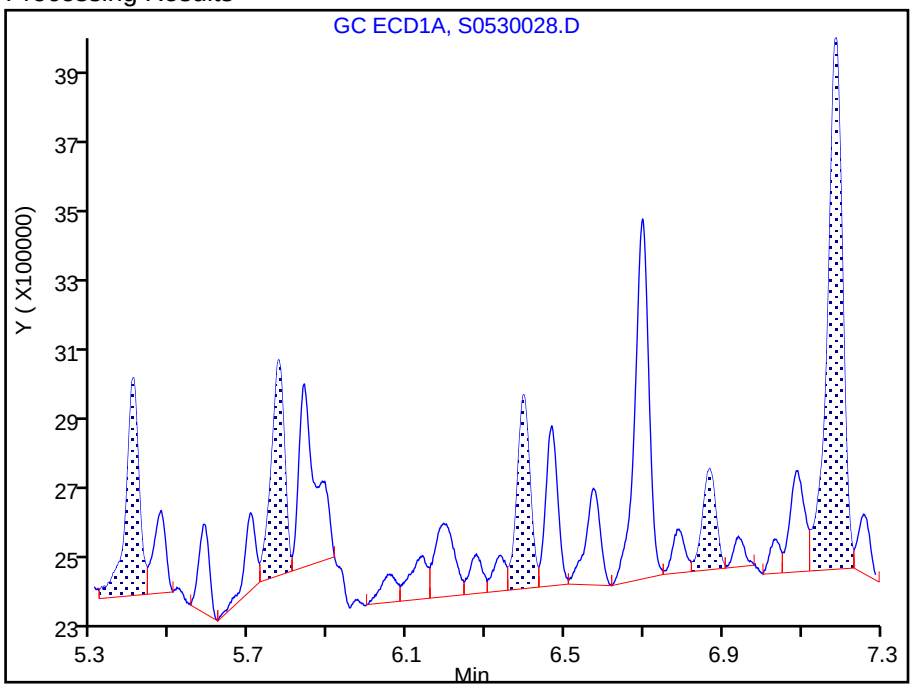
TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CHGC10\20180530-21981.b\S0530028.D		
Injection Date:	30-May-2018 13:54:53	Instrument ID:	CHGC10
Lims ID:	180-78164-A-8-A	Lab Sample ID:	180-78164-8
Client ID:	CE-MW-28R5A_052318		
Operator ID:		ALS Bottle#:	28 Worklist Smp#: 28
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	IS PCB_CHGC10DUAL	Limit Group:	GCS 8082A ICAL with IS

8 PCB-1254, Detector: 1, GC ECD1A

Processing Results

Exp RT	RT	Response	Amount
5.40	5.40	598271	0.009567
5.77	5.77	592800	0.007566
6.39	6.40	532874	0.005277
6.86	6.87	277543	0.004235
7.18	7.19	1459847	0.023910
		Average =	0.010111



Reviewer: oravecj, 31-May-2018 06:28:19

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh Job No.: 180-78164-1

SDG No.:

Client Sample ID: CE-MW-28R5A_052318 Lab Sample ID: 180-78164-8

Matrix: Water Lab File ID: S0530028.D

Analysis Method: 8082A Date Collected: 05/23/2018 18:35

Extraction Method: 3510C Date Extracted: 05/29/2018 14:00

Sample wt/vol: 980(mL) Date Analyzed: 05/30/2018 13:54

Con. Extract Vol.: 1.0(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: RTX-CLP2 ID: 0.53(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 246135 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl (Surr)	76		46-126
877-09-8	Tetrachloro-m-xylene	66		36-130

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180530-21981.b\S0530028.D
Lims ID: 180-78164-A-8-A
Client ID: CE-MW-28R5A_052318
Sample Type: Client
Inject. Date: 30-May-2018 13:54:53 ALS Bottle#: 28 Worklist Smp#: 28
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0021981-028
Operator ID: Instrument ID: CHGC10

Method: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180530-21981.b\IS PCB_CHGC10DUAL.m
Limit Group: GCS 8082A ICAL with IS
Last Update: 31-May-2018 06:28:26 Calib Date: 01-Mar-2018 20:27:10
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\S0301050.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK028

First Level Reviewer: oravecj Date: 31-May-2018 06:28:26

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng	Flags
* 1 1-Bromo-2-nitrobenzene						s
1	2.588	2.585	0.003	252692605	H 0.1000	
2	2.834	2.831	0.004	163004280	H 0.1000	
$ 2 Tetrachloro-m-xylene						
1	3.174	3.173	0.001	38194410	H 0.0137	
2	3.674	3.672	0.002	19176554	H 0.0131	
					RPD = 3.84	
3 PCB-1221						
1		3.307			ND	
1		3.433				
1		3.471				
2		3.207				
2		3.964				
2		4.196				
4 PCB-1232						
1		3.308			ND	
1		3.795				
1		4.001				
1		4.421				
1		4.900				
2		3.966				
2		4.691				
2		5.028				
2		5.525				
2		5.684				

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng	Flags
6	PCB-1016					U
1		3.474			ND	
1		3.796				
1		4.276				
1		4.420				
1		4.901				
2		5.029				
2		5.327				
2		5.526				
2		6.270				
2		6.481				
5	PCB-1242					U
1		3.475			ND	
1		4.278				
1		4.423				
1		4.903				
1		5.466				
2		4.694				
2		5.329				
2		5.528				
2		6.271				
2		7.021				
7	PCB-1248					U
1		4.254			ND	
1		4.629				
1		4.901				
1		5.465				
1		5.784				
2		5.824				
2		6.269				
2		6.482				
2		6.934				
2		7.453				
8	PCB-1254					U
1		5.397			ND	
1		5.771				
1		6.389				
1		6.860				
1		7.184				
2		7.357				
2		8.303				
2		9.058				
2		9.361				
2		9.679				

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng	Flags
10 PCB-1262						U
1		6.694			ND	
1		7.184				
1		7.950				
1		8.422				
1		9.531				
2		8.678				
2		9.826				
2		10.297				
2		10.678				
2		11.205				
9 PCB-1260						
1	6.697	6.696	0.001	989213H	0.0152	
1	7.189	7.186	0.003	1459847H	0.0153	
1	7.716	7.715	0.001	1059030H	0.0151	
1	8.994	8.992	0.002	1628758H	0.0124	
1	9.470	9.469	0.001	940418H	0.0128	
		Average of Peak Amounts =			0.0142	
2	9.062	9.060	0.002	629090H	0.0149	
2	9.831	9.828	0.003	358746H	0.0119	
2	10.299	10.298	0.001	328904H	0.0100	
2	10.682	10.679	0.003	891167H	0.0116	
2	11.207	11.212	-0.005	624249H	0.0145	
		Average of Peak Amounts =			0.0126	
					RPD = 12.02	
11 PCB-1268						U
1		9.533			ND	
1		9.597				
1		9.906				
1		10.870				
2		11.200				
2		11.267				
2		11.620				
2		12.432				
* 46 PCB-205 (IS)						s
1	10.532	10.528	0.004	171194286H	0.1000	
2	12.051	12.048	0.003	95332072H	0.1000	
$ 12 DCB Decachlorobiphenyl (Surr)						
1	11.138	11.137	0.001	24624025H	0.0163	
2	12.764	12.762	0.002	12272683H	0.0153	
					RPD = 6.42	
13 1260 Res 2						
1		0.000			ND	
2		0.000				
14 1260 Res 3						
1		0.000			ND	
2		0.000				
15 1260 Res 1						
1		0.000			ND	
2		0.000				

QC Flag Legend

Processing Flags

s - Failed ISTD Recovery Test

H - Response Measured by Height

Review Flags

U - Marked Undetected

Reagents:

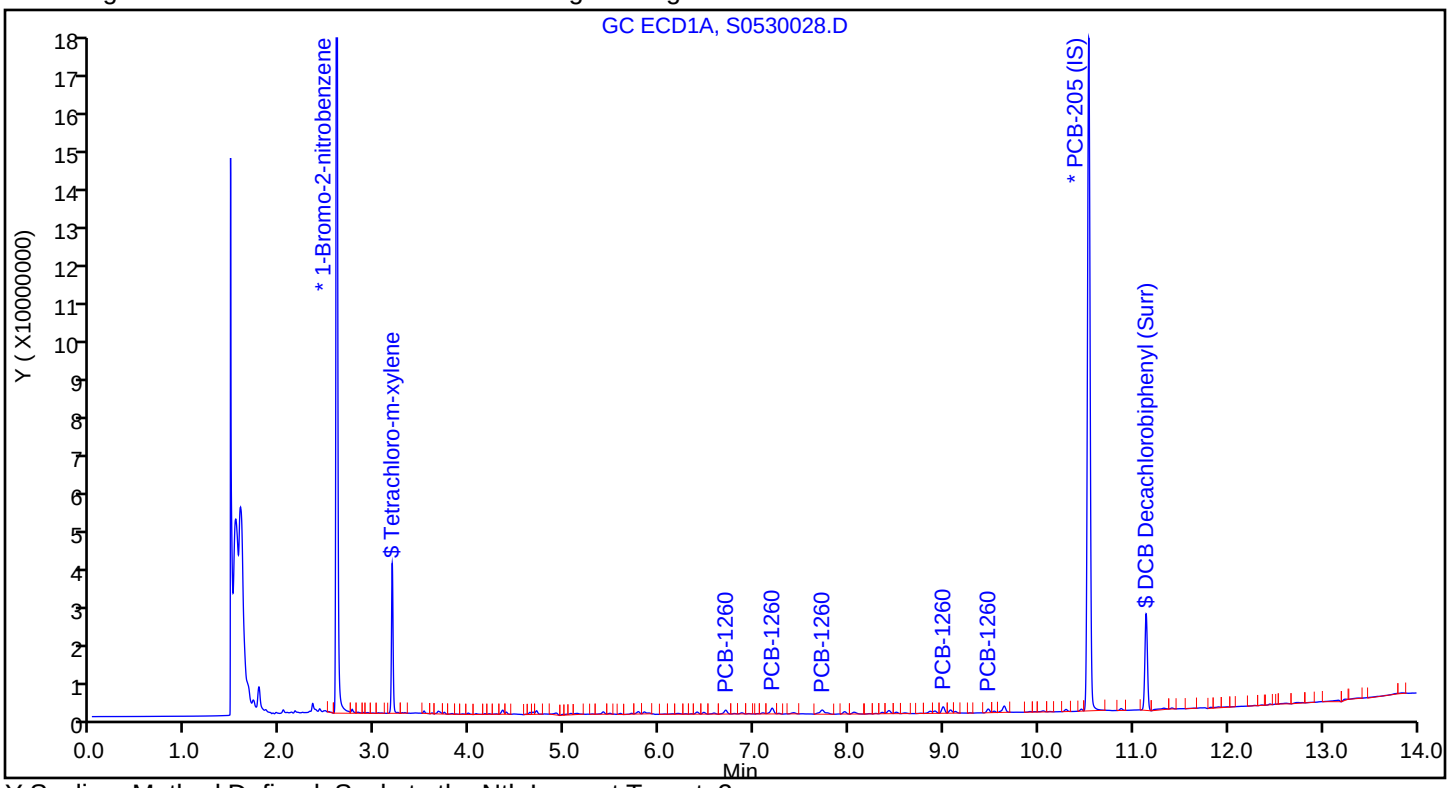
PCBINT_00007	Amount Added:	0.01	Units: mL	Run Reagent

Report Date: 31-May-2018 06:28:47 Chrom Revision: 2.2 11-May-2018 08:54:46

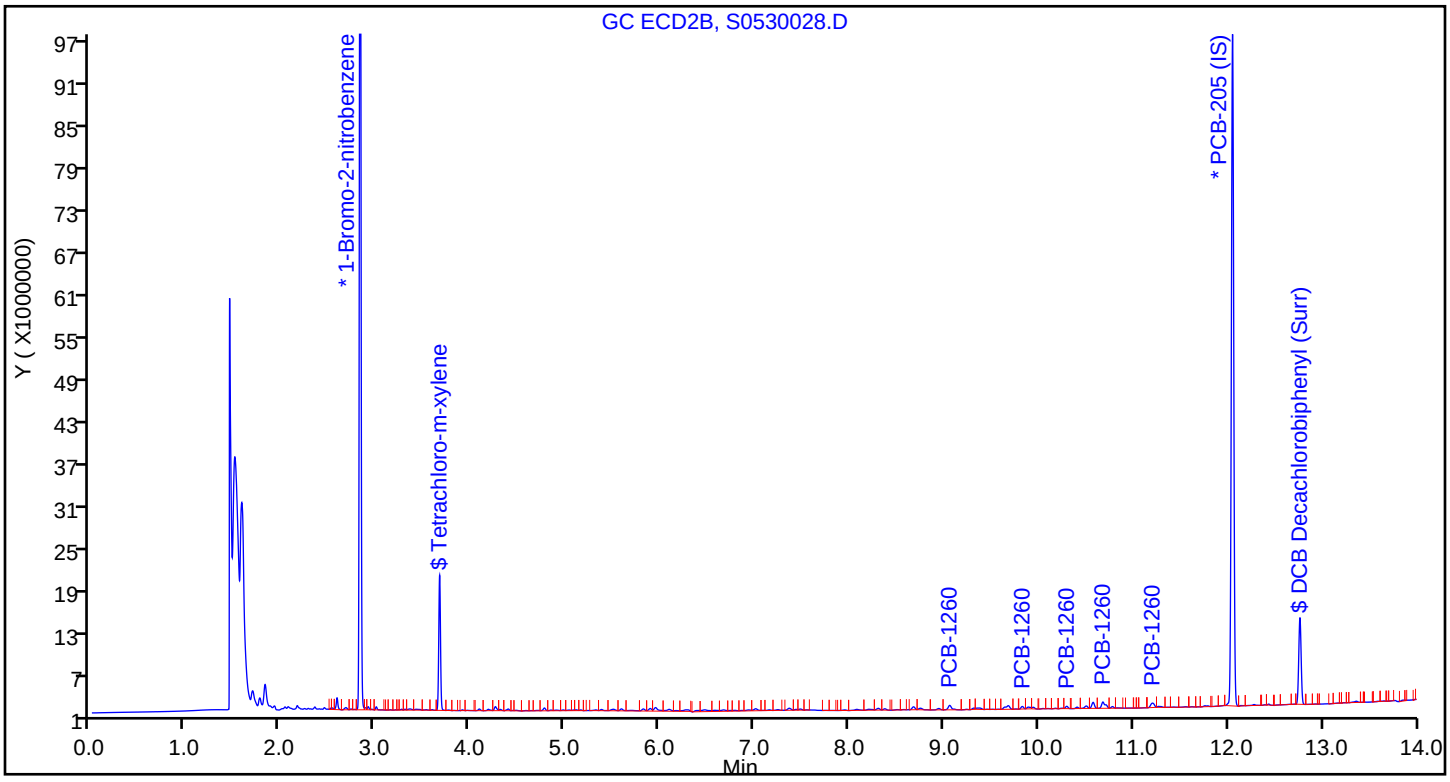
TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CHGC10\20180530-21981.b\S0530028.D				
Injection Date:	30-May-2018 13:54:53	Instrument ID:	CHGC10		
Lims ID:	180-78164-A-8-A	Lab Sample ID:	180-78164-8		
Client ID:	CE-MW-28R5A_052318				
Operator ID:		ALS Bottle#:	28	Worklist Smp#:	28
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	IS PCB_CHGC10DUAL	Limit Group:	GCS 8082A ICAL with IS		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



User Disabled Compound Report

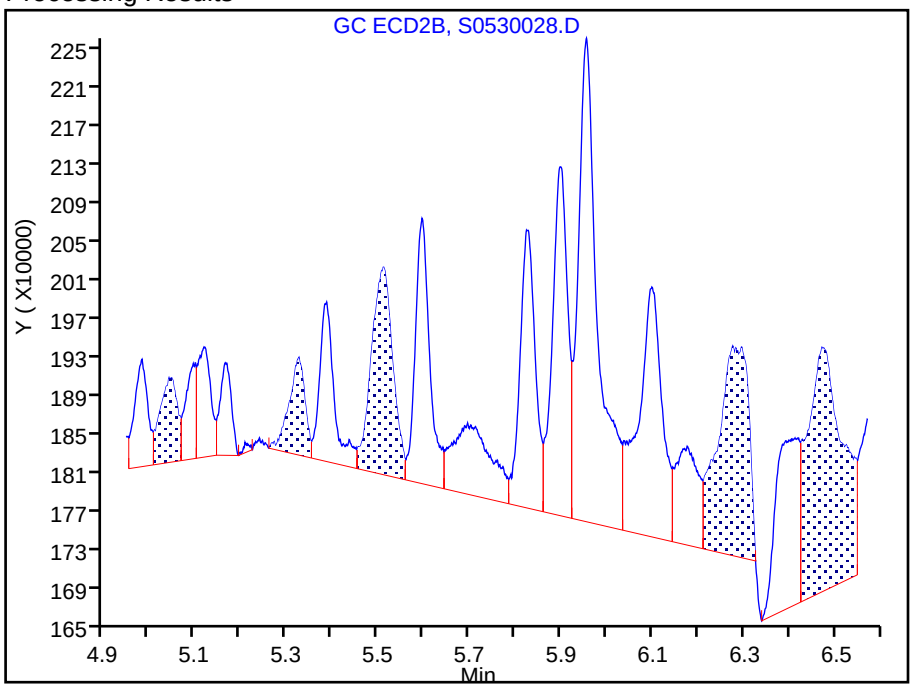
TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CHGC10\20180530-21981.b\S0530028.D		
Injection Date:	30-May-2018 13:54:53	Instrument ID:	CHGC10
Lims ID:	180-78164-A-8-A	Lab Sample ID:	180-78164-8
Client ID:	CE-MW-28R5A_052318		
Operator ID:		ALS Bottle#:	28 Worklist Smp#: 28
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	IS PCB_CHGC10DUAL	Limit Group:	GCS 8082A ICAL with IS

6 PCB-1016, Detector: 2, GC ECD2B

Processing Results

Exp RT	RT	Response	Amount
5.03	5.05	87199	0.005963
5.33	5.33	101056	0.002283
5.53	5.51	214850	0.008514
6.27	6.28	217061	0.010633
6.48	6.47	253078	0.014855
		Average =	0.004918



Reviewer: oravecj, 31-May-2018 06:28:17

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

User Disabled Compound Report

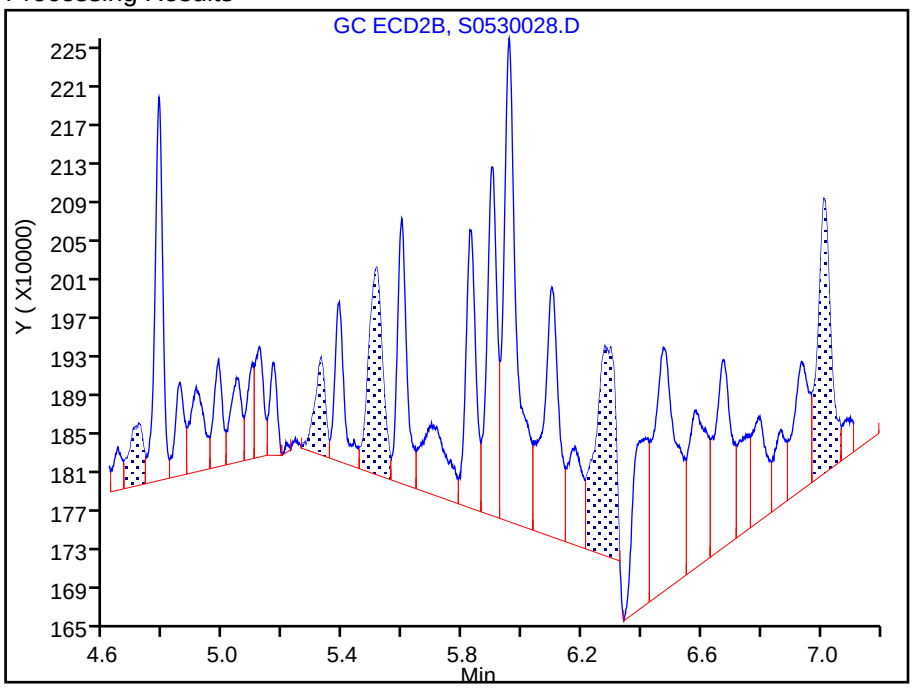
TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CHGC10\20180530-21981.b\S0530028.D		
Injection Date:	30-May-2018 13:54:53	Instrument ID:	CHGC10
Lims ID:	180-78164-A-8-A	Lab Sample ID:	180-78164-8
Client ID:	CE-MW-28R5A_052318		
Operator ID:		ALS Bottle#:	28 Worklist Smp#: 28
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	IS PCB_CHGC10DUAL	Limit Group:	GCS 8082A ICAL with IS

5 PCB-1242, Detector: 2, GC ECD2B

Processing Results

Exp RT	RT	Response	Amount
4.69	4.71	64183	0.002739
5.33	5.33	101056	0.002744
5.53	5.51	214850	0.010140
6.27	6.28	217061	0.012376
7.02	7.01	285003	0.015975
		Average =	0.006922



Reviewer: oravecj, 31-May-2018 06:28:17

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

User Disabled Compound Report

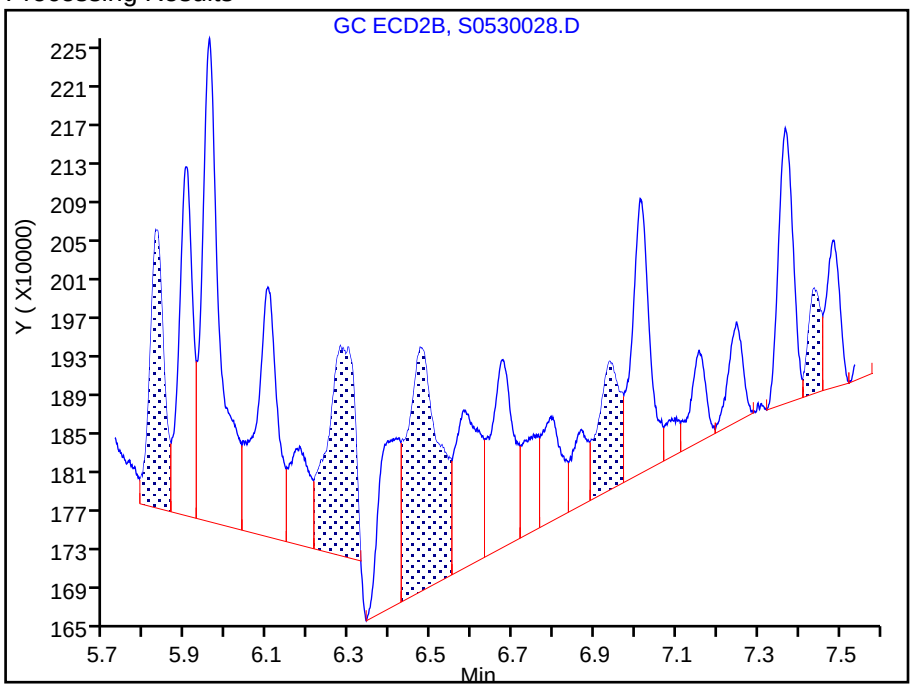
TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CHGC10\20180530-21981.b\S0530028.D		
Injection Date:	30-May-2018 13:54:53	Instrument ID:	CHGC10
Lims ID:	180-78164-A-8-A	Lab Sample ID:	180-78164-8
Client ID:	CE-MW-28R5A_052318		
Operator ID:		ALS Bottle#: 28	Worklist Smp#: 28
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	IS PCB_CHGC10DUAL	Limit Group:	GCS 8082A ICAL with IS

7 PCB-1248, Detector: 2, GC ECD2B

Processing Results

Exp RT	RT	Response	Amount
5.82	5.82	287514	0.012655
6.27	6.28	217061	0.007865
6.48	6.47	253078	0.011173
6.93	6.94	133346	0.004663
7.45	7.44	109066	0.004987
		Average =	0.008268



Reviewer: oravecj, 31-May-2018 06:28:18

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

User Disabled Compound Report

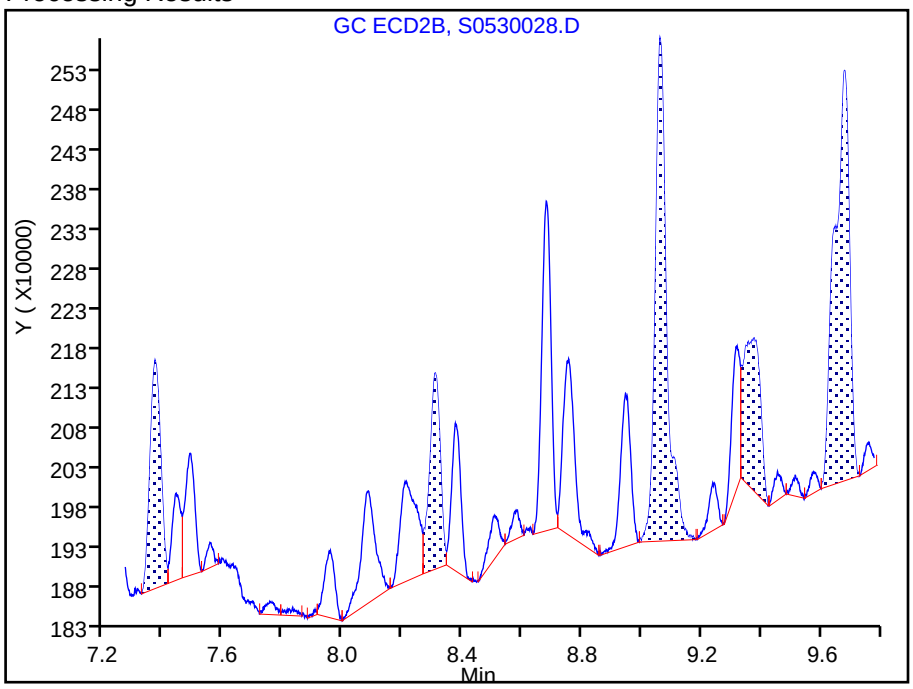
TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CHGC10\20180530-21981.b\S0530028.D				
Injection Date:	30-May-2018 13:54:53	Instrument ID:	CHGC10		
Lims ID:	180-78164-A-8-A	Lab Sample ID:	180-78164-8		
Client ID:	CE-MW-28R5A_052318				
Operator ID:		ALS Bottle#:	28	Worklist Smp#:	28
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	IS PCB_CHGC10DUAL	Limit Group:	GCS 8082A ICAL with IS		

8 PCB-1254, Detector: 2, GC ECD2B

Processing Results

Exp RT	RT	Response	Amount
7.36	7.37	285439	0.008412
8.30	8.31	245361	0.006712
9.06	9.06	629090	0.028849
9.36	9.38	191689	0.007159
9.68	9.68	513100	0.012487
		Average =	0.010111



Reviewer: oravecj, 31-May-2018 06:28:19

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-78164-1

SDG No.:

Client Sample ID: CE-EB-73_052318 | Lab Sample ID: 180-78164-9

Matrix: Water | Lab File ID: S0530029.D

Analysis Method: 8082A | Date Collected: 05/23/2018 16:00

Extraction Method: 3510C | Date Extracted: 05/29/2018 14:00

Sample wt/vol: 990(mL) | Date Analyzed: 05/30/2018 14:13

Con. Extract Vol.: 1.0(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RTX-CLP1 ID: 0.53(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 246135 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	Arochlor 1016	0.0048	U	0.010	0.0048
11104-28-2	Arochlor 1221	0.0058	U	0.010	0.0058
11141-16-5	Arochlor 1232	0.0053	U	0.010	0.0053
53469-21-9	Arochlor 1242	0.0092	U	0.010	0.0092
12672-29-6	Arochlor 1248	0.0030	U	0.010	0.0030
11097-69-1	Arochlor 1254	0.0096	U	0.010	0.0096
11096-82-5	Arochlor 1260	0.0040	U	0.010	0.0040

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl (Surr)	87		46-126
877-09-8	Tetrachloro-m-xylene	75		36-130

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180530-21981.b\S0530029.D
Lims ID: 180-78164-A-9-A
Client ID: CE-EB-73_052318
Sample Type: Client
Inject. Date: 30-May-2018 14:13:41 ALS Bottle#: 29 Worklist Smp#: 29
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0021981-029
Operator ID: Instrument ID: CHGC10

Method: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180530-21981.b\IS PCB_CHGC10DUAL.m
Limit Group: GCS 8082A ICAL with IS
Last Update: 31-May-2018 06:28:26 Calib Date: 01-Mar-2018 20:27:10
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\S0301050.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK028

First Level Reviewer: oravecj Date: 31-May-2018 06:28:34

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng	Flags
* 1 1-Bromo-2-nitrobenzene						
1	2.588	2.585	0.003	230558972	H 0.1000	
2	2.835	2.831	0.004	149843957	H 0.1000	
$ 2 Tetrachloro-m-xylene						
1	3.174	3.173	0.001	38128500	H 0.0149	
2	3.675	3.672	0.003	19665599	H 0.0147	
					RPD = 1.90	
3 PCB-1221						
1		3.307			ND	
1		3.433				
1		3.471				
2		3.207				
2		3.964				
2		4.196				
4 PCB-1232						
1		3.308			ND	
1		3.795				
1		4.001				
1		4.421				
1		4.900				
2		3.966				
2		4.691				
2		5.028				
2		5.525				
2		5.684				

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng	Flags
6 PCB-1016						
1		3.474			ND	
1		3.796				
1		4.276				
1		4.420				
1		4.901				
2		5.029				
2		5.327				
2		5.526				
2		6.270				
2		6.481				
5 PCB-1242						
1		3.475			ND	
1		4.278				
1		4.423				
1		4.903				
1		5.466				
2		4.694				
2		5.329				
2		5.528				
2		6.271				
2		7.021				
7 PCB-1248						
1		4.254			ND	
1		4.629				
1		4.901				
1		5.465				
1		5.784				
2		5.824				
2		6.269				
2		6.482				
2		6.934				
2		7.453				
8 PCB-1254						
1		5.397			ND	
1		5.771				
1		6.389				
1		6.860				
1		7.184				
2		7.357				
2		8.303				
2		9.058				
2		9.361				
2		9.679				

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng	Flags
10 PCB-1262						
1		6.694			ND	
1		7.184				
1		7.950				
1		8.422				
1		9.531				
2		8.678				
2		9.826				
2		10.297				
2		10.678				
2		11.205				
9 PCB-1260						
1		6.696			ND	
1		7.186				
1		7.715				
1		8.992				
1		9.469				
2		9.060				
2		9.828				
2		10.298				
2		10.679				
2		11.212				
11 PCB-1268						
1		9.533			ND	
1		9.597				
1		9.906				
1		10.870				
2		11.200				
2		11.267				
2		11.620				
2		12.432				
* 46 PCB-205 (IS)						
1	10.535	10.528	0.007	159660113H	0.1000	
2	12.053	12.048	0.005	88201276H	0.1000	
$ 12 DCB Decachlorobiphenyl (Surr)						
1	11.141	11.137	0.004	24426403H	0.0173	
2	12.765	12.762	0.003	12173508H	0.0164	
					RPD = 5.62	
13 1260 Res 2						
1		0.000			ND	
2		0.000				
14 1260 Res 3						
1		0.000			ND	
2		0.000				
15 1260 Res 1						
1		0.000			ND	
2		0.000				

Reagents:

PCBINT_00007 Amount Added: 0.01 Units: mL Run Reagent

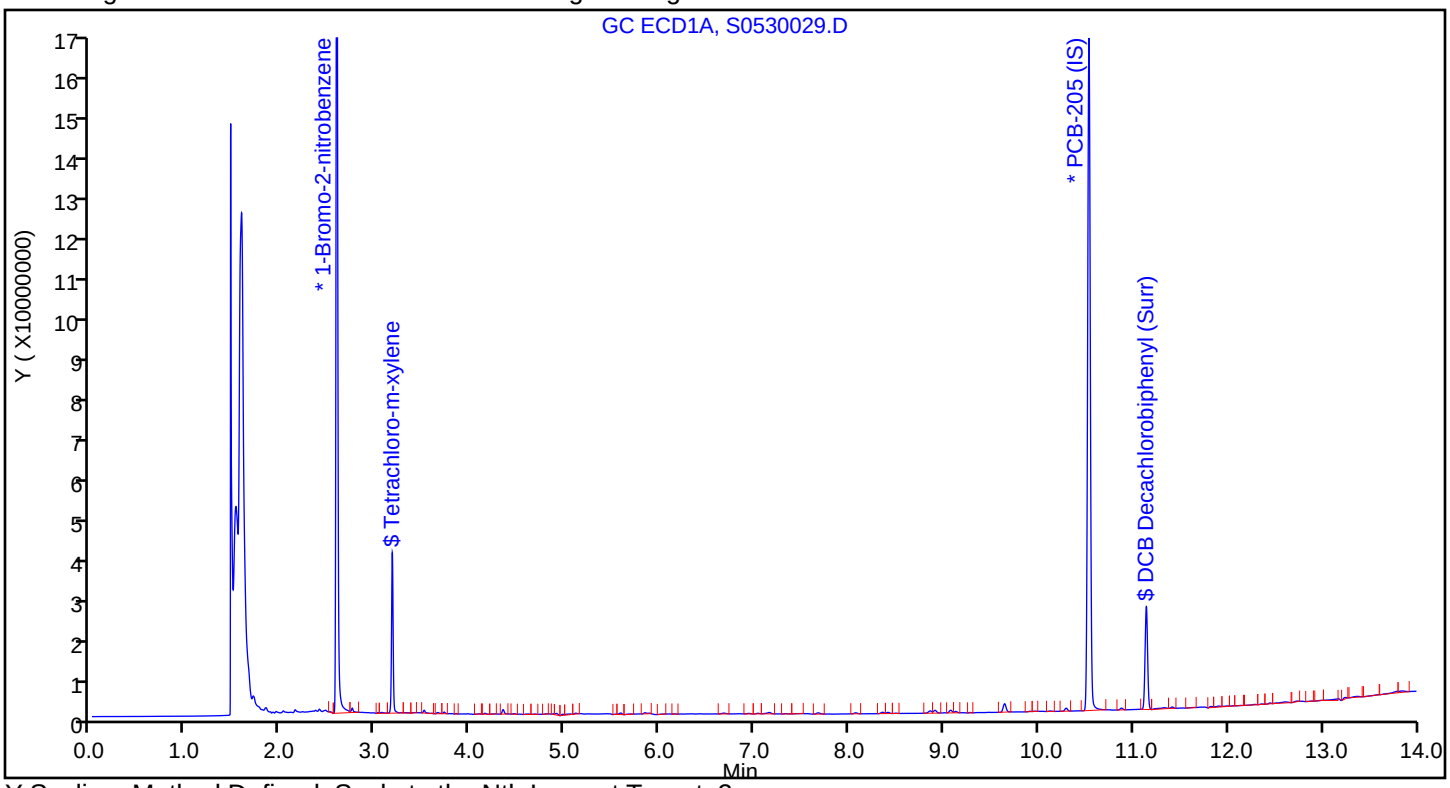
Report Date: 31-May-2018 06:28:44 Chrom Revision: 2.2 11-May-2018 08:54:46

TestAmerica Pittsburgh

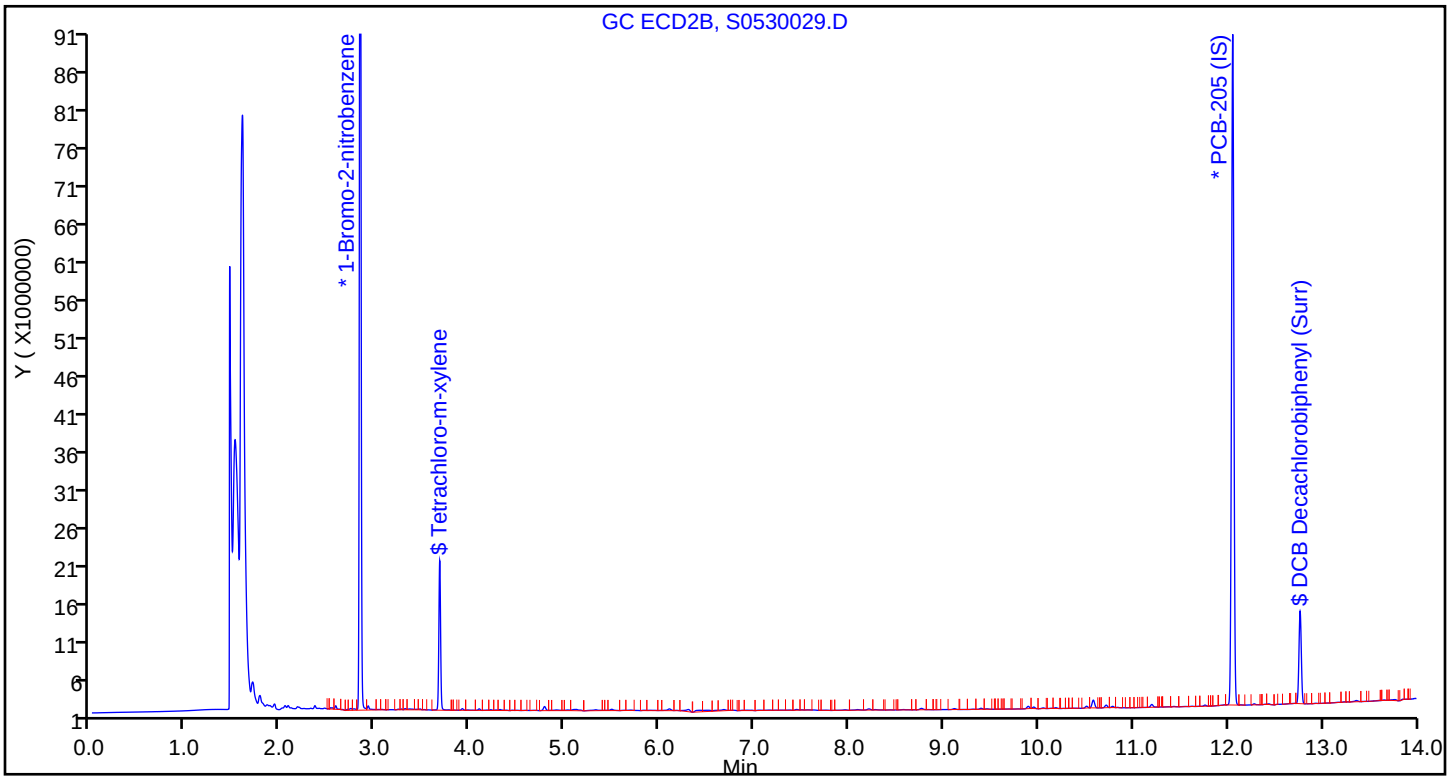
Data File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180530-21981.b\S0530029.D

Injection Date:	30-May-2018 14:13:41	Instrument ID:	CHGC10		
Lims ID:	180-78164-A-9-A	Lab Sample ID:	180-78164-9		
Client ID:	CE-EB-73_052318				
Operator ID:		ALS Bottle#:	29	Worklist Smp#:	29
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	IS PCB_CHGC10DUAL	Limit Group:	GCS 8082A ICAL with IS		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh Job No.: 180-78164-1

SDG No.:

Client Sample ID: CE-EB-73_052318 Lab Sample ID: 180-78164-9

Matrix: Water Lab File ID: S0530029.D

Analysis Method: 8082A Date Collected: 05/23/2018 16:00

Extraction Method: 3510C Date Extracted: 05/29/2018 14:00

Sample wt/vol: 990(mL) Date Analyzed: 05/30/2018 14:13

Con. Extract Vol.: 1.0(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: RTX-CLP2 ID: 0.53(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 246135 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl (Surr)	82		46-126
877-09-8	Tetrachloro-m-xylene	73		36-130

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180530-21981.b\S0530029.D
Lims ID: 180-78164-A-9-A
Client ID: CE-EB-73_052318
Sample Type: Client
Inject. Date: 30-May-2018 14:13:41 ALS Bottle#: 29 Worklist Smp#: 29
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0021981-029
Operator ID: Instrument ID: CHGC10

Method: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180530-21981.b\IS PCB_CHGC10DUAL.m
Limit Group: GCS 8082A ICAL with IS
Last Update: 31-May-2018 06:28:26 Calib Date: 01-Mar-2018 20:27:10
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\S0301050.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK028

First Level Reviewer: oravecj Date: 31-May-2018 06:28:34

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng	Flags
* 1 1-Bromo-2-nitrobenzene						
1	2.588	2.585	0.003	230558972	H 0.1000	
2	2.835	2.831	0.004	149843957	H 0.1000	
$ 2 Tetrachloro-m-xylene						
1	3.174	3.173	0.001	38128500	H 0.0149	
2	3.675	3.672	0.003	19665599	H 0.0147	
					RPD = 1.90	
3 PCB-1221						
1		3.307			ND	
1		3.433				
1		3.471				
2		3.207				
2		3.964				
2		4.196				
4 PCB-1232						
1		3.308			ND	
1		3.795				
1		4.001				
1		4.421				
1		4.900				
2		3.966				
2		4.691				
2		5.028				
2		5.525				
2		5.684				

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng	Flags
6 PCB-1016						
1		3.474			ND	
1		3.796				
1		4.276				
1		4.420				
1		4.901				
2		5.029				
2		5.327				
2		5.526				
2		6.270				
2		6.481				
5 PCB-1242						
1		3.475			ND	
1		4.278				
1		4.423				
1		4.903				
1		5.466				
2		4.694				
2		5.329				
2		5.528				
2		6.271				
2		7.021				
7 PCB-1248						
1		4.254			ND	
1		4.629				
1		4.901				
1		5.465				
1		5.784				
2		5.824				
2		6.269				
2		6.482				
2		6.934				
2		7.453				
8 PCB-1254						
1		5.397			ND	
1		5.771				
1		6.389				
1		6.860				
1		7.184				
2		7.357				
2		8.303				
2		9.058				
2		9.361				
2		9.679				

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng	Flags
10 PCB-1262						
1		6.694			ND	
1		7.184				
1		7.950				
1		8.422				
1		9.531				
2		8.678				
2		9.826				
2		10.297				
2		10.678				
2		11.205				
9 PCB-1260						
1		6.696			ND	
1		7.186				
1		7.715				
1		8.992				
1		9.469				
2		9.060				
2		9.828				
2		10.298				
2		10.679				
2		11.212				
11 PCB-1268						
1		9.533			ND	
1		9.597				
1		9.906				
1		10.870				
2		11.200				
2		11.267				
2		11.620				
2		12.432				
* 46 PCB-205 (IS)						
1	10.535	10.528	0.007	159660113H	0.1000	
2	12.053	12.048	0.005	88201276H	0.1000	
$ 12 DCB Decachlorobiphenyl (Surr)						
1	11.141	11.137	0.004	24426403H	0.0173	
2	12.765	12.762	0.003	12173508H	0.0164	
					RPD = 5.62	
13 1260 Res 2						
1		0.000			ND	
2		0.000				
14 1260 Res 3						
1		0.000			ND	
2		0.000				
15 1260 Res 1						
1		0.000			ND	
2		0.000				

Reagents:

PCBINT_00007 Amount Added: 0.01 Units: mL Run Reagent

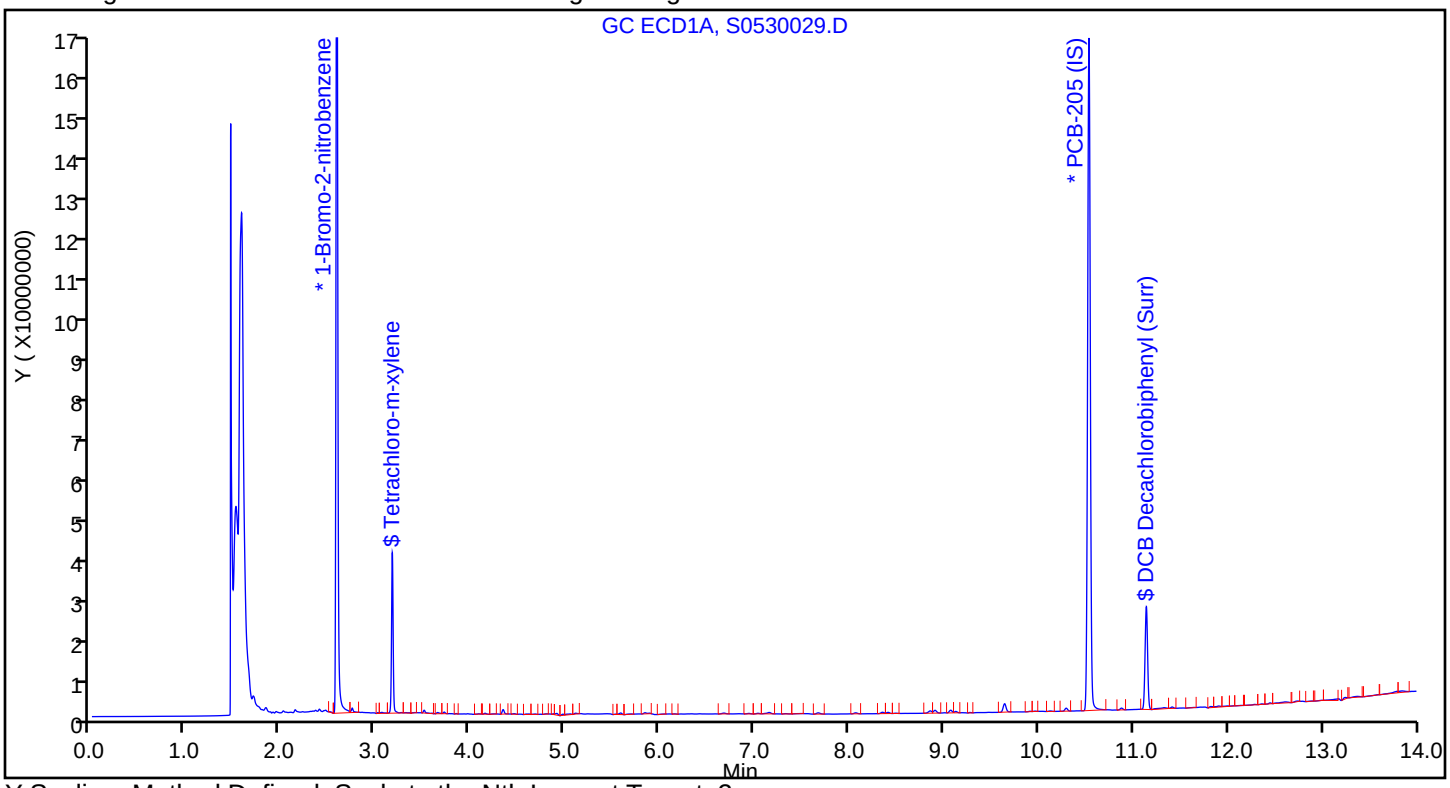
Report Date: 31-May-2018 06:28:44 Chrom Revision: 2.2 11-May-2018 08:54:46

TestAmerica Pittsburgh

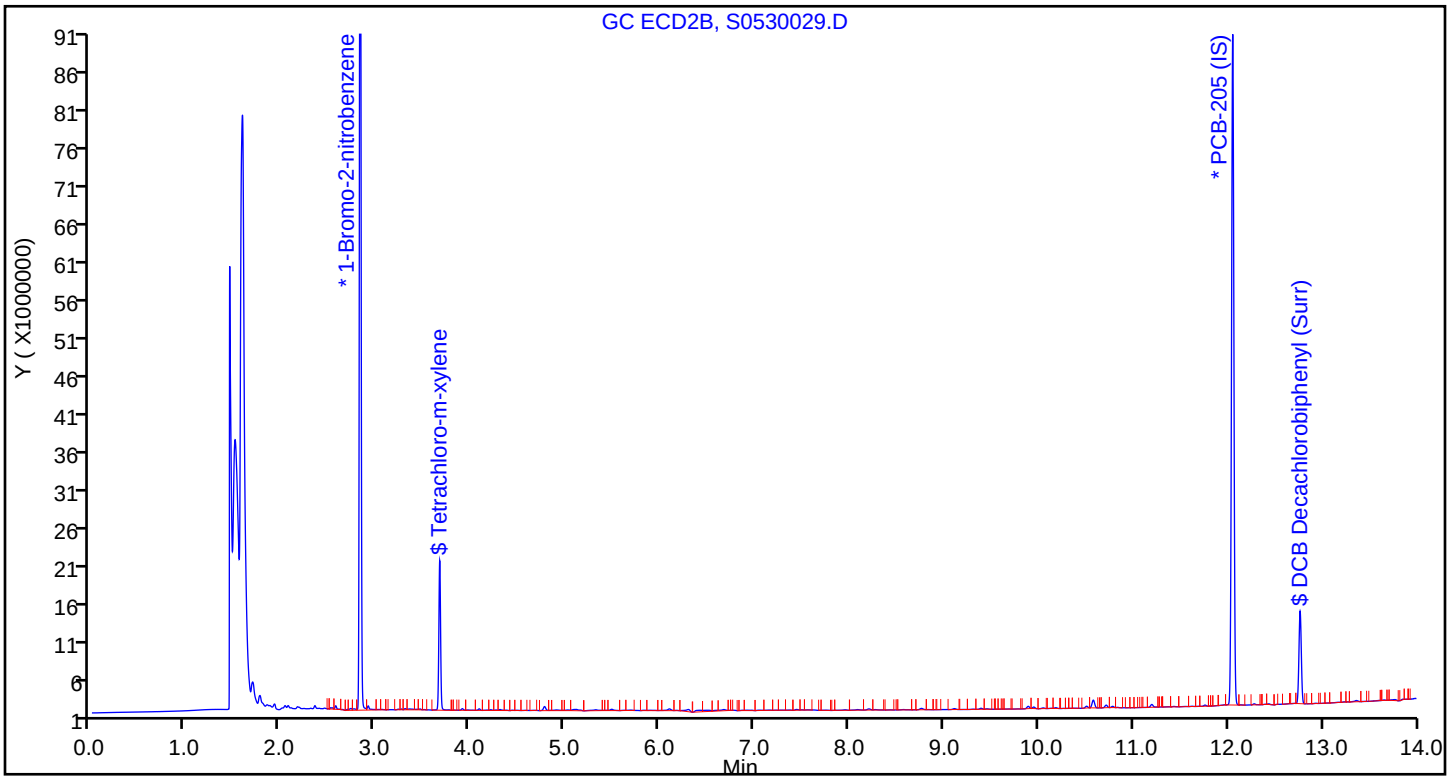
Data File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180530-21981.b\S0530029.D

Injection Date:	30-May-2018 14:13:41	Instrument ID:	CHGC10		
Lims ID:	180-78164-A-9-A	Lab Sample ID:	180-78164-9		
Client ID:	CE-EB-73_052318				
Operator ID:		ALS Bottle#:	29	Worklist Smp#:	29
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	IS PCB_CHGC10DUAL	Limit Group:	GCS 8082A ICAL with IS		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Pittsburgh Job No.: 180-78164-1 Analy Batch No.: 238236

SDG No.:

Instrument ID: CHGC10 GC Column: RTX-CLP1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/01/2018 12:35 Calibration End Date: 03/01/2018 14:09 Calibration ID: 37449

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 180-238236/1	S0301025.D
Level 2	IC 180-238236/2	S0301026.D
Level 3	IC 180-238236/3	S0301027.D
Level 4	IC 180-238236/4	S0301028.D
Level 5	IC 180-238236/5	S0301029.D
Level 6	IC 180-238236/6	S0301030.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
PCB-1221 Peak 1	0.0119 0.0089	0.0113	0.0110	0.0104	0.0096	Ave		0.0105				10.9		20.0			
PCB-1221 Peak 2	0.0105 0.0056	0.0075	0.0073	0.0068	0.0062	Lin1	0	0.0065							0.9910		0.9900
PCB-1221 Peak 3	0.0341 0.0202	0.0263	0.0256	0.0239	0.0214	Ave		0.0252				19.6		20.0			
PCB-1254 Peak 1	0.0416 0.0309	0.0410	0.0372	0.0349	0.0335	Ave		0.0365				11.5		20.0			
PCB-1254 Peak 2	0.0547 0.0392	0.0501	0.0458	0.0428	0.0421	Ave		0.0458				12.5		20.0			
PCB-1254 Peak 3	0.0658 0.0528	0.0625	0.0597	0.0573	0.0558	Ave		0.0590				8.0		20.0			
PCB-1254 Peak 4	0.0389 0.0372	0.0389	0.0382	0.0381	0.0385	Ave		0.0383				1.7		20.0			
PCB-1254 Peak 5	0.0417 0.0307	0.0383	0.0359	0.0343	0.0331	Ave		0.0357				11.0		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Pittsburgh Job No.: 180-78164-1 Analy Batch No.: 238236

SDG No.:

Instrument ID: CHGC10 GC Column: RTX-CLP1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/01/2018 12:35 Calibration End Date: 03/01/2018 14:09 Calibration ID: 37449

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 180-238236/1	S0301025.D
Level 2	IC 180-238236/2	S0301026.D
Level 3	IC 180-238236/3	S0301027.D
Level 4	IC 180-238236/4	S0301028.D
Level 5	IC 180-238236/5	S0301029.D
Level 6	IC 180-238236/6	S0301030.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
PCB-1221 Peak 1	BNB	Ave	186044 55628927	1780267	4258510	8275909	15483865	0.0100 4.00	0.100	0.250	0.500	1.00
PCB-1221 Peak 2	BNB	Lin1	163306 35007972	1173822	2832222	5404806	9955488	0.0100 4.00	0.100	0.250	0.500	1.00
PCB-1221 Peak 3	BNB	Ave	532404 126733167	4138175	9875837	18923877	34503592	0.0100 4.00	0.100	0.250	0.500	1.00
PCB-1254 Peak 1	PCB205	Ave	398303 123734758	3822775	9123871	18147781	33484626	0.0100 4.00	0.100	0.250	0.500	1.00
PCB-1254 Peak 2	PCB205	Ave	524066 156560549	4668098	11233766	22240519	42044872	0.0100 4.00	0.100	0.250	0.500	1.00
PCB-1254 Peak 3	PCB205	Ave	630879 211020718	5824451	14650189	29760200	55775666	0.0100 4.00	0.100	0.250	0.500	1.00
PCB-1254 Peak 4	PCB205	Ave	372758 148649981	3624110	9365575	19778595	38431663	0.0100 4.00	0.100	0.250	0.500	1.00
PCB-1254 Peak 5	PCB205	Ave	400039 122855933	3567466	8803719	17819993	33027360	0.0100 4.00	0.100	0.250	0.500	1.00

Curve Type Legend:

Ave = Average ISTD by Height
Lin1 = Linear 1/Conc^2 ISTD by Height

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\S0301025.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 01-Mar-2018 12:35:22 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0020692-001
Operator ID: Instrument ID: CHGC10
Sublist: chrom-IS PCB_CHGC10DUAL*sub21

Method: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\IS PCB_CHGC10DUAL.m
Limit Group: GCS 8082A ICAL with IS
Last Update: 02-Mar-2018 08:22:21 Calib Date: 01-Mar-2018 20:27:10
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\S0301050.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK021

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 1-Bromo-2-nitrobenzene							
1	2.594	2.595	-0.001	156087577H	0.1000	0.1000	
2	2.835	2.836	-0.001	98116185H	0.1000	0.1000	
3 PCB-1221							Ma
1	3.322	3.322	0.000	186044H	0.0100	0.0113	
1	3.450	3.450	0.000	163306H	0.0100	0.009878	M
1	3.488	3.488	0.000	532404H	0.0100	0.0135	M
		Average of Peak Amounts =				0.0116	
2	3.213	3.213	0.000	109674H	0.0100	0.005085	
2	3.973	3.975	-0.002	106715H	0.0100	0.0127	
2	4.207	4.207	0.000	234077H	0.0100	0.0134	
		Average of Peak Amounts =				0.0104	
						RPD = 10.74	
8 PCB-1254							
1	5.428	5.428	0.000	398303H	0.0100	0.0114	
1	5.804	5.804	0.000	524066H	0.0100	0.0119	
1	6.427	6.425	0.002	630879H	0.0100	0.0112	
1	6.902	6.898	0.004	372758H	0.0100	0.0102	
1	7.226	7.224	0.002	400039H	0.0100	0.0117	
		Average of Peak Amounts =				0.0113	
2	7.373	7.373	0.000	243081H	0.0100	0.0131	
2	8.754	8.751	0.003	245048H	0.0100	0.0122	
2	9.072	9.073	-0.001	155587H	0.0100	0.0130	
2	9.375	9.375	0.000	165392H	0.0100	0.0113	
2	9.693	9.692	0.001	270717H	0.0100	0.0120	
		Average of Peak Amounts =				0.0123	
						RPD = 8.97	
* 46 PCB-205 (IS)							
1	10.572	10.573	0.000	95837218H	0.1000	0.1000	
2	12.063	12.064	-0.001	52223080H	0.1000	0.1000	

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

GCAR2154CALL1_00018	Amount Added:	1.00	Units: mL	
PCBINT_00007	Amount Added:	0.01	Units: mL	Run Reagent

Report Date: 02-Mar-2018 08:22:25 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\S0301025.D

Injection Date: 01-Mar-2018 12:35:22 Instrument ID: CHGC10

Lims ID: IC

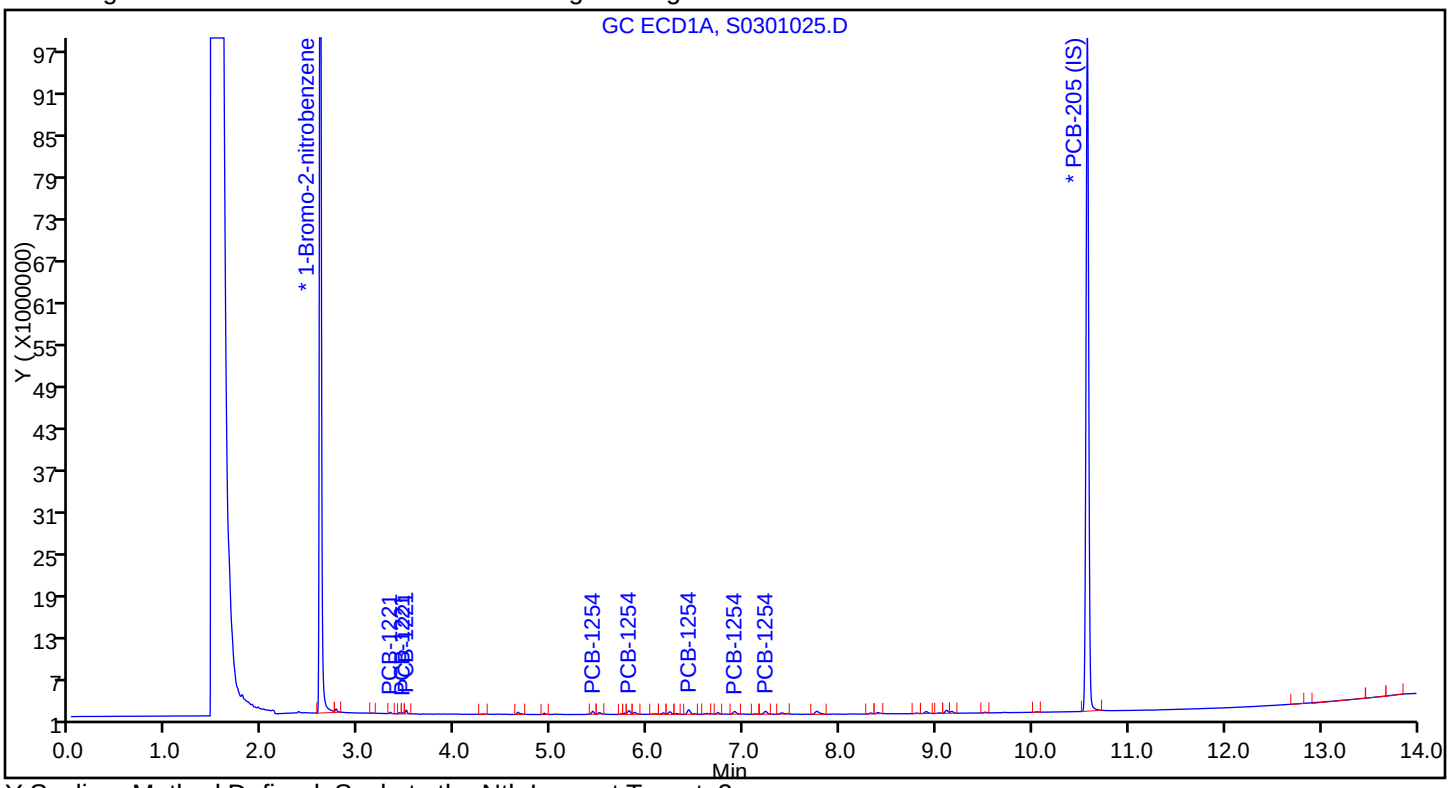
Client ID:

Operator ID: ALS Bottle#: 1 Worklist Smp#: 1

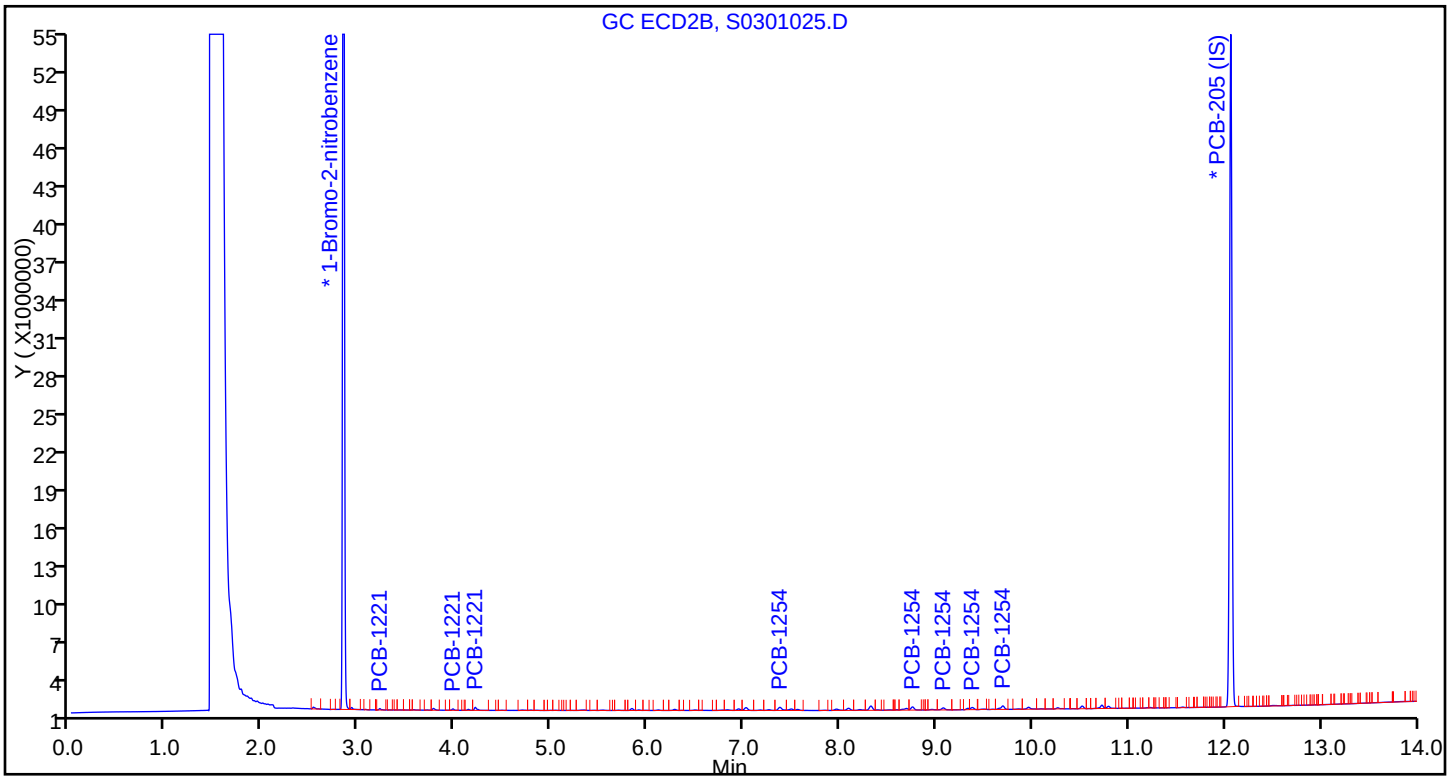
Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: IS PCB_CHGC10DUAL Limit Group: GCS 8082A ICAL with IS

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Report Date: 02-Mar-2018 08:22:25 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\S0301025.D

Injection Date: 01-Mar-2018 12:35:22 Instrument ID: CHGC10

Lims ID: IC

Client ID:

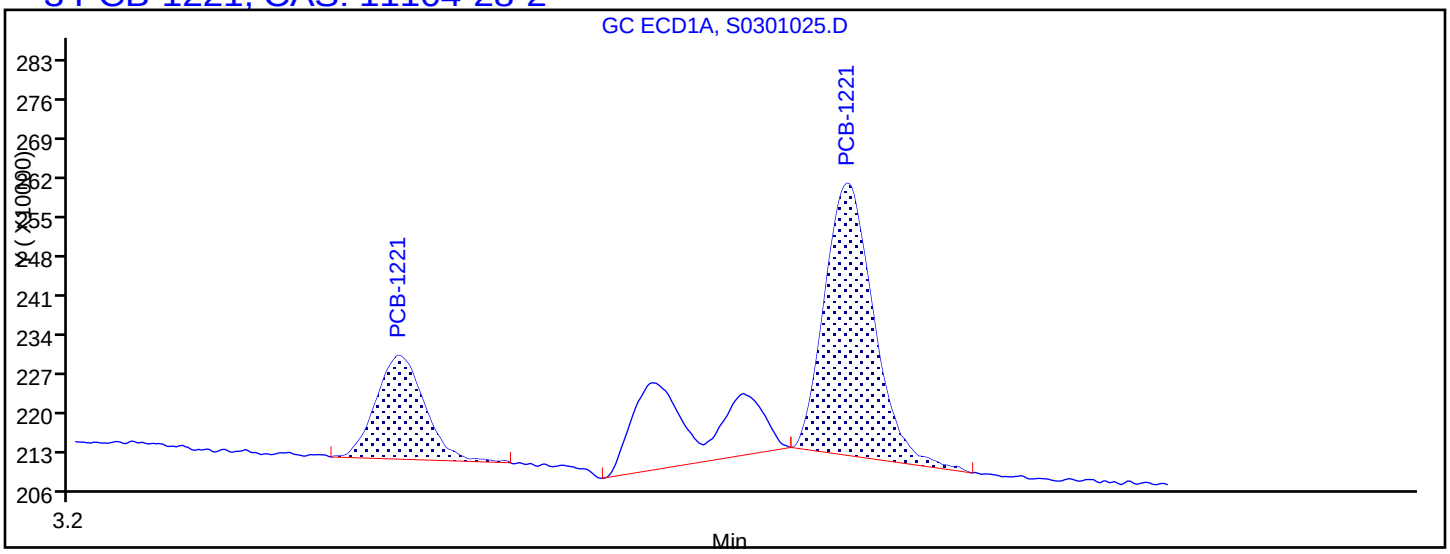
Operator ID: ALS Bottle#: 1 Worklist Smp#: 1

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: IS PCB_CHGC10DUAL Limit Group: GCS 8082A ICAL with IS

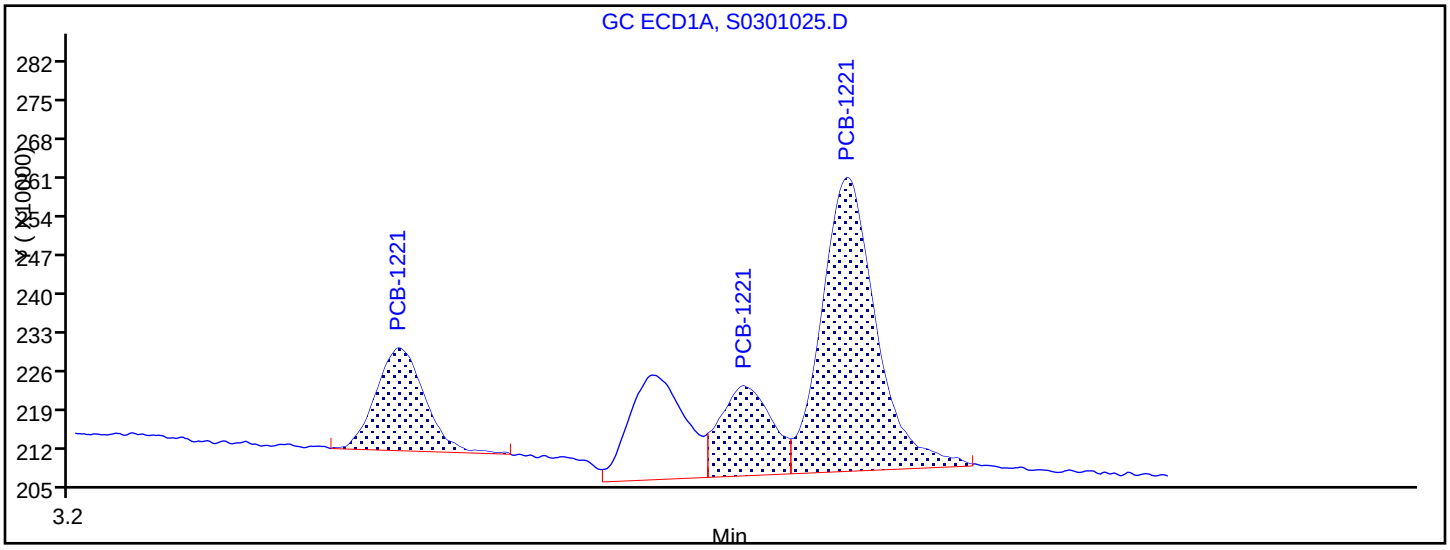
Column: Detector GC ECD1A

3 PCB-1221, CAS: 11104-28-2



Processing Integration Results

3.322	Response = 186044
3.450	Response = 0
3.488	Response = 487987



Manual Integration Results

3.322	Response = 186044	
3.450	Response = 163306	M
3.488	Response = 532404	M

Reviewer: oravecj, 02-Mar-2018 05:45:39

Audit Action: Assigned New Baseline Audit Reason: Split Peak

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\S0301026.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 01-Mar-2018 12:54:16 ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0020692-002
Operator ID: Instrument ID: CHGC10
Sublist: chrom-IS PCB_CHGC10DUAL*sub21

Method: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\IS PCB_CHGC10DUAL.m
Limit Group: GCS 8082A ICAL with IS
Last Update: 02-Mar-2018 05:57:23 Calib Date: 01-Mar-2018 20:27:10
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\S0301050.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK021

First Level Reviewer: oravecj Date: 02-Mar-2018 04:56:28

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 1-Bromo-2-nitrobenzene							
1	2.595	2.595	0.000	157093599H	0.1000	0.1000	
2	2.836	2.836	0.000	97705267H	0.1000	0.1000	
3 PCB-1221							
1	3.322	3.322	0.000	1780267H	0.1000	0.1076	
1	3.451	3.450	0.001	1173822H	0.1000	0.1084	
1	3.489	3.488	0.001	4138175H	0.1000	0.1043	
		Average of Peak Amounts =				0.1068	
2	3.214	3.213	0.001	826190H	0.1000	0.1253	
2	3.975	3.975	0.000	902471H	0.1000	0.1080	
2	4.207	4.207	0.000	1845432H	0.1000	0.1059	
		Average of Peak Amounts =				0.1130	
						RPD = 5.68	
8 PCB-1254							
1	5.428	5.428	0.000	3822775H	0.1000	0.1123	
1	5.804	5.804	0.000	4668098H	0.1000	0.1094	
1	6.426	6.425	0.001	5824451H	0.1000	0.1059	
1	6.901	6.898	0.003	3624110H	0.1000	0.1016	
1	7.224	7.224	0.000	3567466H	0.1000	0.1073	
		Average of Peak Amounts =				0.1073	
2	7.375	7.373	0.002	1964228H	0.1000	0.1065	
2	8.754	8.751	0.003	2071096H	0.1000	0.1042	
2	9.074	9.073	0.001	1251323H	0.1000	0.1055	
2	9.378	9.375	0.003	1489967H	0.1000	0.1023	
2	9.696	9.692	0.004	2302424H	0.1000	0.1030	
		Average of Peak Amounts =				0.1043	
						RPD = 2.81	
* 46 PCB-205 (IS)							
1	10.572	10.573	0.000	93226545H	0.1000	0.1000	
2	12.065	12.064	0.000	51839187H	0.1000	0.1000	

Reagents:

GCAR2154CALL2_00014	Amount Added:	1.00	Units: mL	
PCBINT_00007	Amount Added:	0.01	Units: mL	Run Reagent

Report Date: 02-Mar-2018 05:57:24 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\S0301026.D

Injection Date: 01-Mar-2018 12:54:16 Instrument ID: CHGC10

Lims ID: IC

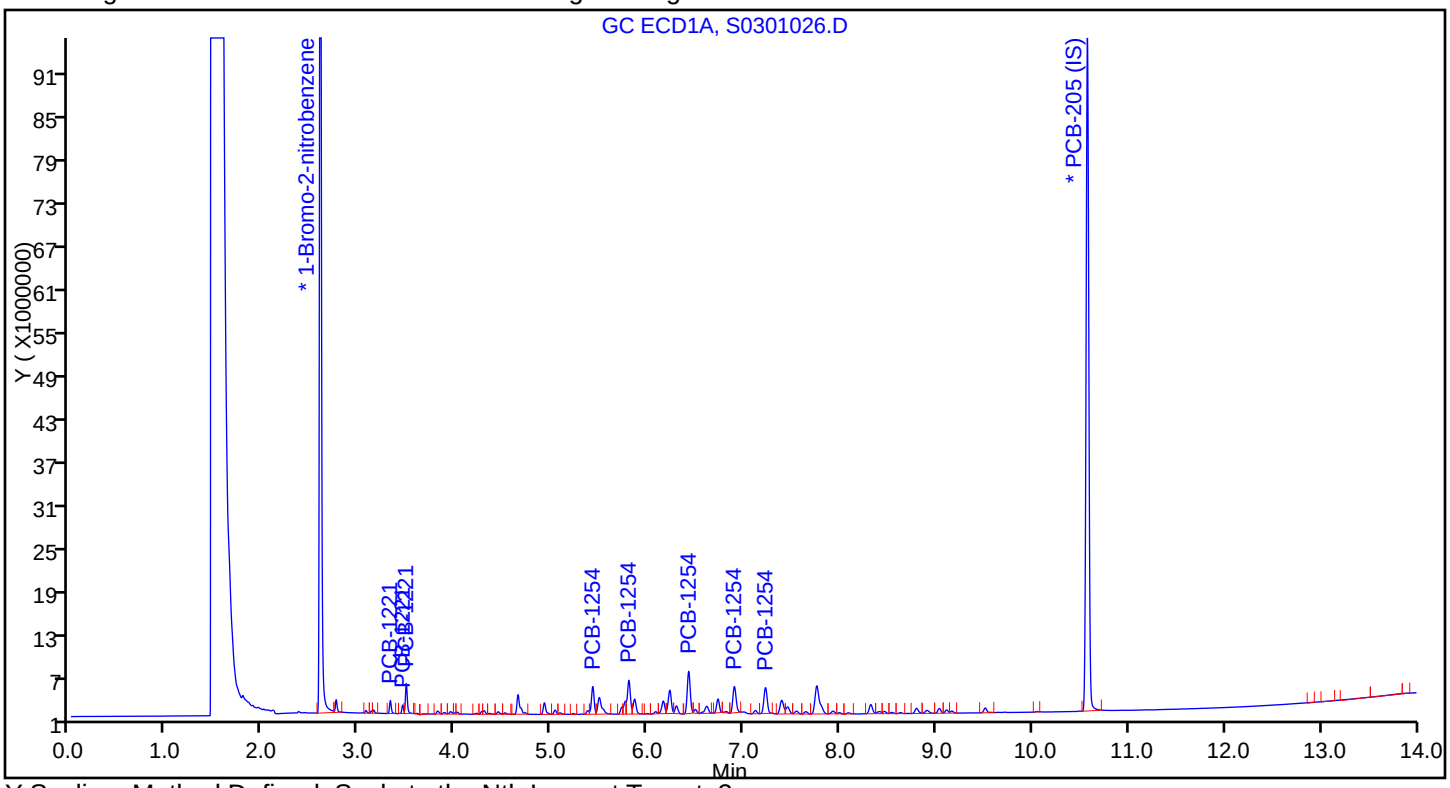
Client ID:

Operator ID: ALS Bottle#: 2 Worklist Smp#: 2

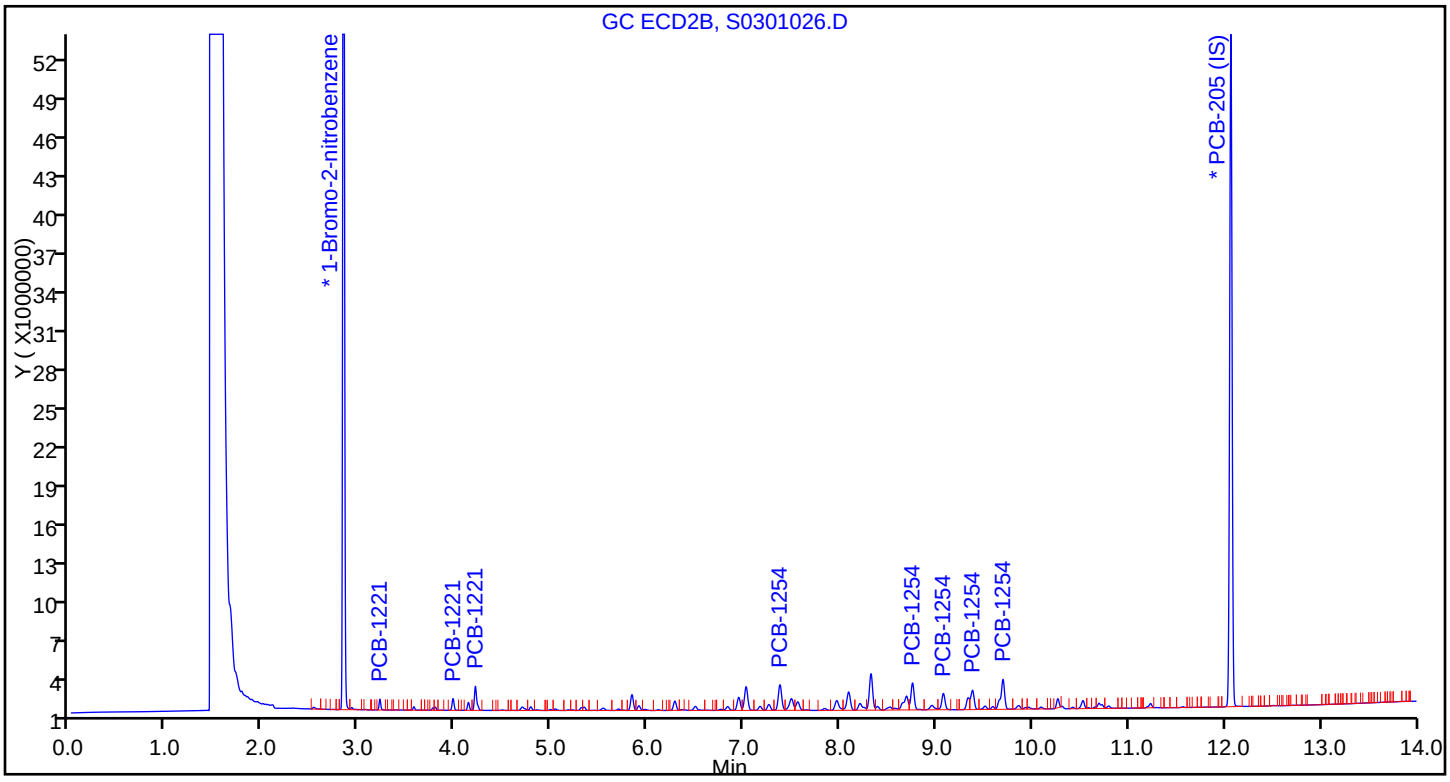
Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: IS PCB_CHGC10DUAL Limit Group: GCS 8082A ICAL with IS

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\S0301027.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 01-Mar-2018 13:13:08 ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0020692-003
Operator ID: Instrument ID: CHGC10
Sublist: chrom-IS PCB_CHGC10DUAL*sub21

Method: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\IS PCB_CHGC10DUAL.m
Limit Group: GCS 8082A ICAL with IS
Last Update: 02-Mar-2018 05:57:19 Calib Date: 01-Mar-2018 20:27:10
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\S0301050.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK021

First Level Reviewer: oravecj Date: 02-Mar-2018 04:57:06

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 1-Bromo-2-nitrobenzene							
1	2.595	2.595	0.000	154204531H	0.1000	0.1000	
2	2.837	2.836	0.001	95601197H	0.1000	0.1000	
3 PCB-1221							
1	3.323	3.322	0.001	4258510H	0.2500	0.2623	
1	3.452	3.450	0.002	2832222H	0.2500	0.2755	
1	3.489	3.488	0.001	9875837H	0.2500	0.2537	
		Average of Peak Amounts =				0.2638	
2	3.214	3.213	0.001	1799615H	0.2500	0.2952	
2	3.975	3.975	0.000	2051705H	0.2500	0.2509	
2	4.207	4.207	0.000	4203298H	0.2500	0.2464	
		Average of Peak Amounts =				0.2642	
						RPD = 0.13	
8 PCB-1254							
1	5.431	5.428	0.003	9123871H	0.2500	0.2546	
1	5.806	5.804	0.002	11233766H	0.2500	0.2502	
1	6.427	6.425	0.002	14650189H	0.2500	0.2532	
1	6.902	6.898	0.004	9365575H	0.2500	0.2494	
1	7.226	7.224	0.002	8803719H	0.2500	0.2516	
		Average of Peak Amounts =				0.2518	
2	7.373	7.373	0.000	4594522H	0.2500	0.2431	
2	8.753	8.751	0.002	4982696H	0.2500	0.2447	
2	9.072	9.073	-0.001	3010621H	0.2500	0.2478	
2	9.376	9.375	0.001	3682129H	0.2500	0.2469	
2	9.692	9.692	0.000	5691962H	0.2500	0.2486	
		Average of Peak Amounts =				0.2462	
						RPD = 2.25	
* 46 PCB-205 (IS)							
1	10.572	10.573	0.000	98102769H	0.1000	0.1000	
2	12.064	12.064	0.000	53108570H	0.1000	0.1000	

Reagents:

GCAR2154CALL3_00014	Amount Added:	1.00	Units: mL	
PCBINT_00007	Amount Added:	0.01	Units: mL	Run Reagent

Report Date: 02-Mar-2018 05:57:21 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\S0301027.D

Injection Date: 01-Mar-2018 13:13:08 Instrument ID: CHGC10

Lims ID: IC

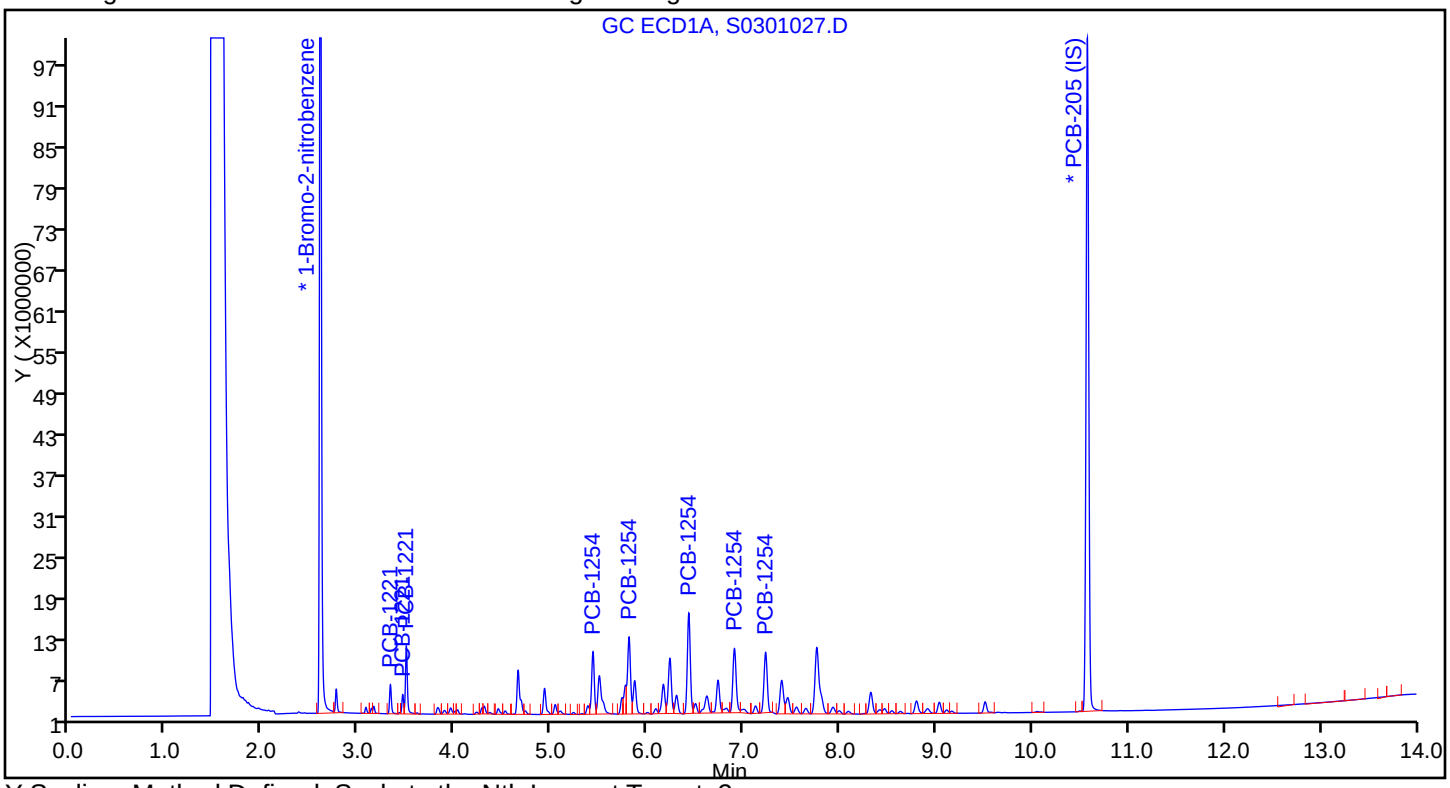
Client ID:

Operator ID: ALS Bottle#: 3 Worklist Smp#: 3

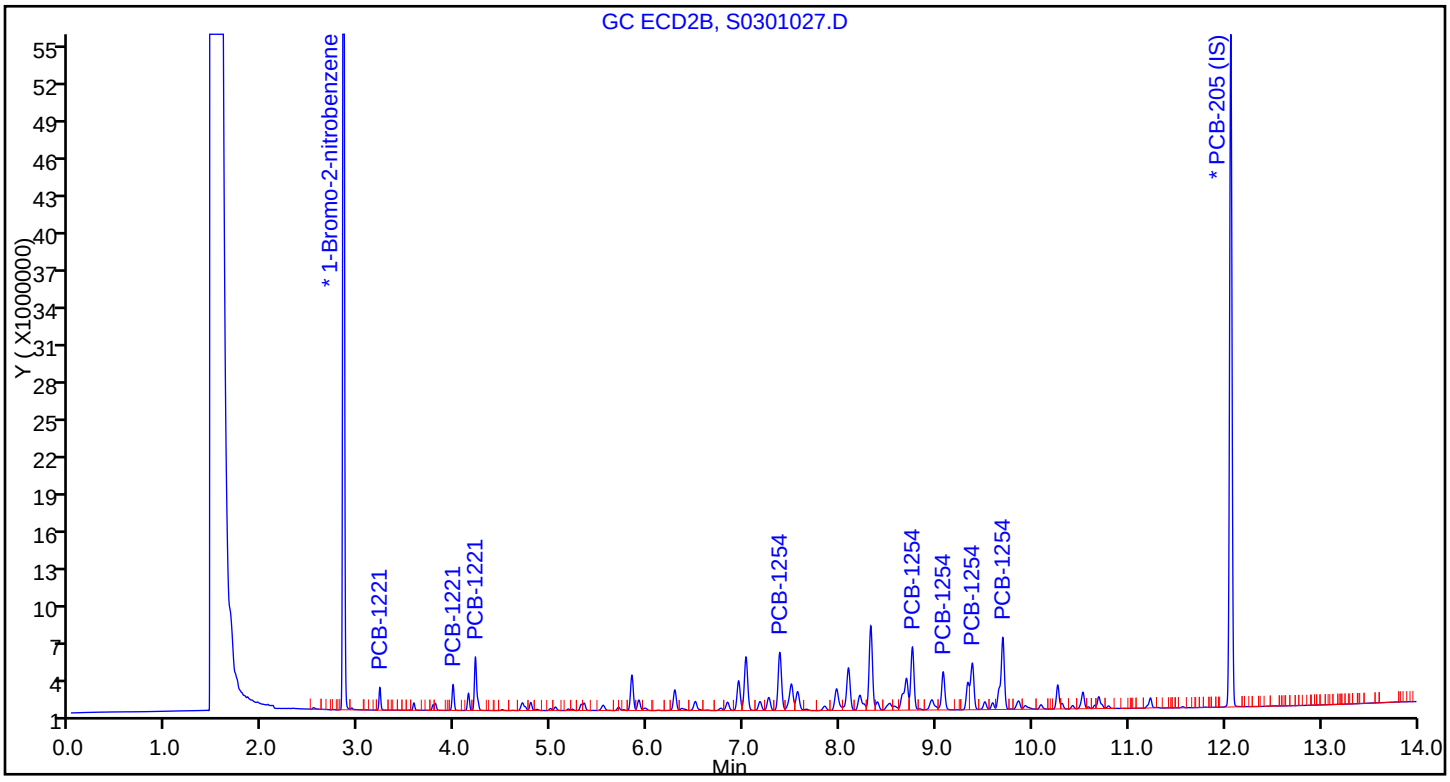
Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: IS PCB_CHGC10DUAL Limit Group: GCS 8082A ICAL with IS

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\S0301028.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 01-Mar-2018 13:31:59 ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0020692-004
Operator ID: Instrument ID: CHGC10
Sublist: chrom-IS PCB_CHGC10DUAL*sub21

Method: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\IS PCB_CHGC10DUAL.m
Limit Group: GCS 8082A ICAL with IS
Last Update: 02-Mar-2018 05:57:14 Calib Date: 01-Mar-2018 20:27:10
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\S0301050.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK021

First Level Reviewer: oravecj Date: 02-Mar-2018 04:57:24

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 1-Bromo-2-nitrobenzene							
1	2.594	2.595	-0.001	158602485H	0.1000	0.1000	
2	2.835	2.836	-0.001	97184030H	0.1000	0.1000	
3 PCB-1221							
1	3.322	3.322	0.000	8275909H	0.5000	0.4955	
1	3.450	3.450	0.000	5404806H	0.5000	0.5165	
1	3.488	3.488	0.000	18923877H	0.5000	0.4726	
		Average of Peak Amounts =				0.4949	
2	3.213	3.213	0.000	3328901H	0.5000	0.5480	
2	3.975	3.975	0.000	3941118H	0.5000	0.4741	
2	4.207	4.207	0.000	8207499H	0.5000	0.4733	
		Average of Peak Amounts =				0.4985	
						RPD = 0.72	
8 PCB-1254							
1	5.428	5.428	0.000	18147781H	0.5000	0.4781	
1	5.804	5.804	0.000	22240519H	0.5000	0.4676	
1	6.425	6.425	0.000	29760200H	0.5000	0.4855	
1	6.898	6.898	0.000	19778595H	0.5000	0.4972	
1	7.224	7.224	0.000	17819993H	0.5000	0.4808	
		Average of Peak Amounts =				0.4818	
2	7.373	7.373	0.000	9027523H	0.5000	0.4528	
2	8.751	8.751	0.000	10091509H	0.5000	0.4698	
2	9.073	9.073	0.000	5936046H	0.5000	0.4633	
2	9.375	9.375	0.000	7592451H	0.5000	0.4826	
2	9.692	9.692	0.000	11434595H	0.5000	0.4736	
		Average of Peak Amounts =				0.4684	
						RPD = 2.83	
* 46 PCB-205 (IS)							
1	10.570	10.573	-0.002	103921318H	0.1000	0.1000	
2	12.063	12.064	-0.001	56015345H	0.1000	0.1000	

Reagents:

GCAR2154CALL4_00018	Amount Added:	1.00	Units: mL	
PCBINT_00007	Amount Added:	0.01	Units: mL	Run Reagent

Report Date: 02-Mar-2018 05:57:16 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\S0301028.D

Injection Date: 01-Mar-2018 13:31:59 Instrument ID: CHGC10

Lims ID: IC

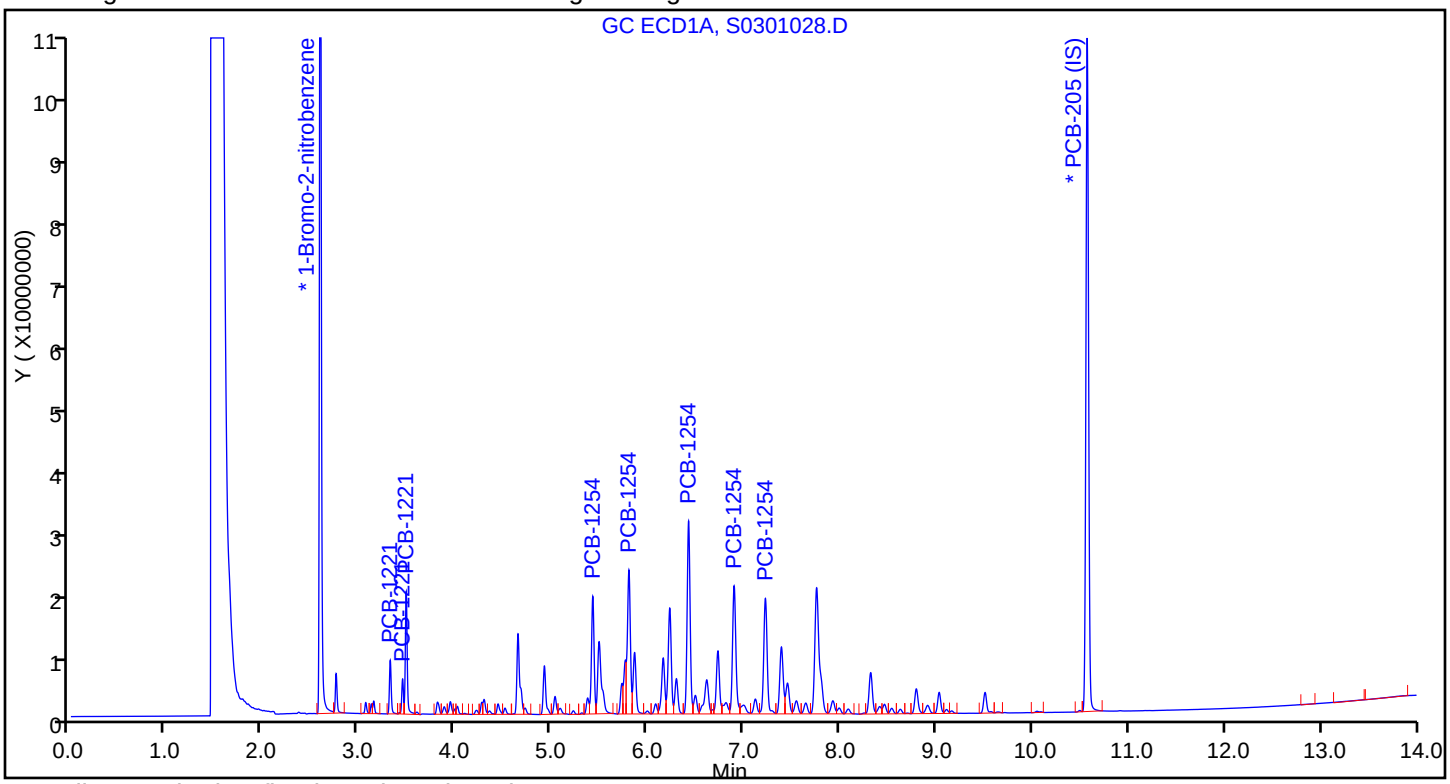
Client ID:

Operator ID: ALS Bottle#: 4 Worklist Smp#: 4

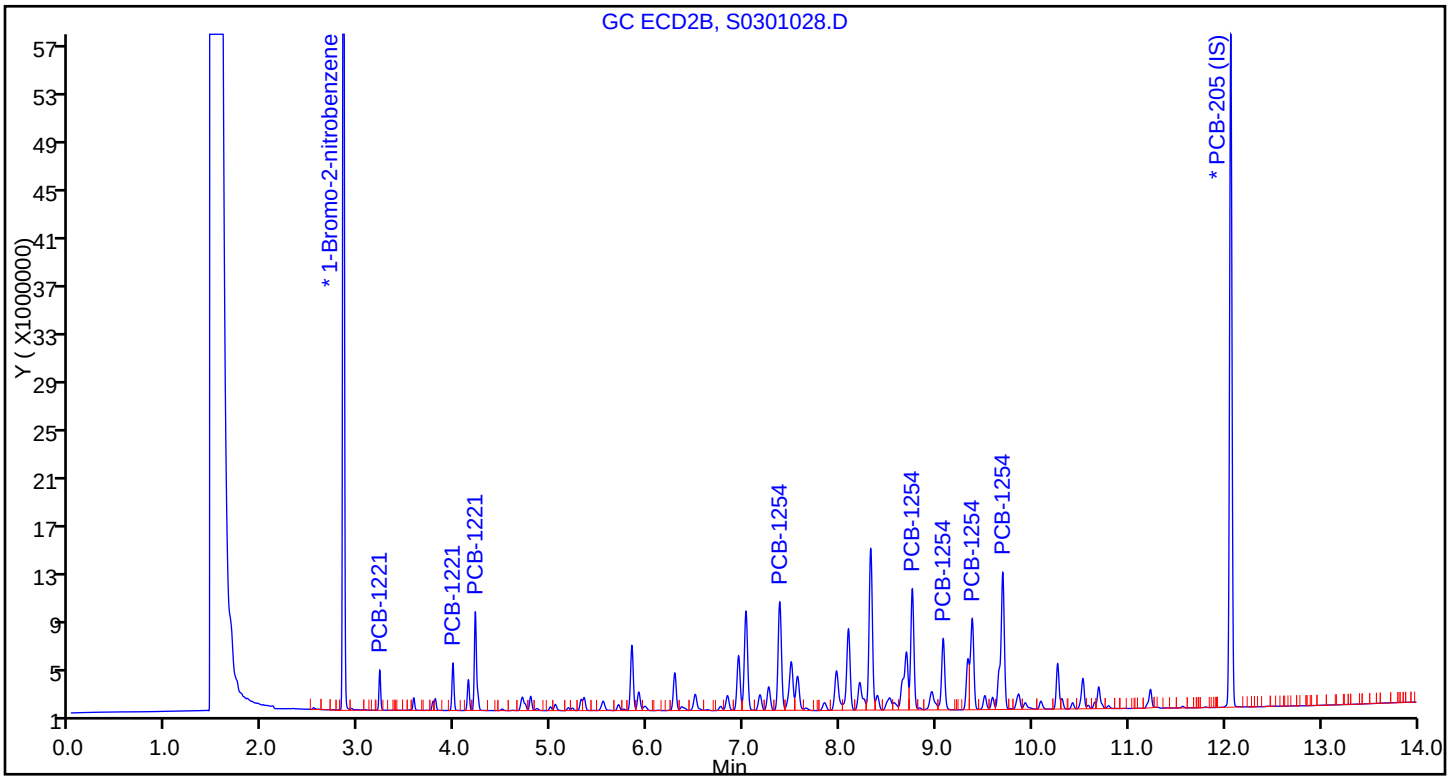
Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: IS PCB_CHGC10DUAL Limit Group: GCS 8082A ICAL with IS

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\S0301029.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 01-Mar-2018 13:50:50 ALS Bottle#: 5 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0020692-005
Operator ID: Instrument ID: CHGC10
Sublist: chrom-IS PCB_CHGC10DUAL*sub21

Method: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\IS PCB_CHGC10DUAL.m
Limit Group: GCS 8082A ICAL with IS
Last Update: 02-Mar-2018 05:57:10 Calib Date: 01-Mar-2018 20:27:10
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\S0301050.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK021

First Level Reviewer: oravecj Date: 02-Mar-2018 04:57:41

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 1-Bromo-2-nitrobenzene							
1	2.594	2.595	-0.001	161384295H	0.1000	0.1000	
2	2.836	2.836	0.000	100067029H	0.1000	0.1000	
3 PCB-1221							
1	3.323	3.322	0.001	15483865H	1.00	0.9112	
1	3.450	3.450	0.000	9955488H	1.00	0.9400	
1	3.488	3.488	0.000	34503592H	1.00	0.8469	
		Average of Peak Amounts =				0.8993	
2	3.214	3.213	0.001	6107988H	1.00	0.9868	
2	3.975	3.975	0.000	7356246H	1.00	0.8594	
2	4.207	4.207	0.000	15299294H	1.00	0.8569	
		Average of Peak Amounts =				0.9010	
						RPD = 0.19	
8 PCB-1254							
1	5.429	5.428	0.001	33484626H	1.00	0.9178	
1	5.804	5.804	0.000	42044872H	1.00	0.9197	
1	6.425	6.425	0.000	55775666H	1.00	0.9467	
1	6.899	6.898	0.001	38431663H	1.00	1.01	
1	7.224	7.224	0.000	33027360H	1.00	0.9272	
		Average of Peak Amounts =				0.9433	
2	7.375	7.373	0.002	17102119H	1.00	0.8812	
2	8.753	8.751	0.002	18876417H	1.00	0.9027	
2	9.074	9.073	0.001	10789697H	1.00	0.8651	
2	9.377	9.375	0.002	14415686H	1.00	0.9413	
2	9.694	9.692	0.002	21444164H	1.00	0.9124	
		Average of Peak Amounts =				0.9005	
						RPD = 4.64	
* 46 PCB-205 (IS)							
1	10.573	10.573	0.000	99880865H	0.1000	0.1000	
2	12.064	12.064	-0.001	54527792H	0.1000	0.1000	

Reagents:

GCAR2154CALL5_00014	Amount Added:	1.00	Units: mL	
PCBINT_00007	Amount Added:	0.01	Units: mL	Run Reagent

Report Date: 02-Mar-2018 05:57:12 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\S0301029.D

Injection Date: 01-Mar-2018 13:50:50 Instrument ID: CHGC10

Lims ID: IC

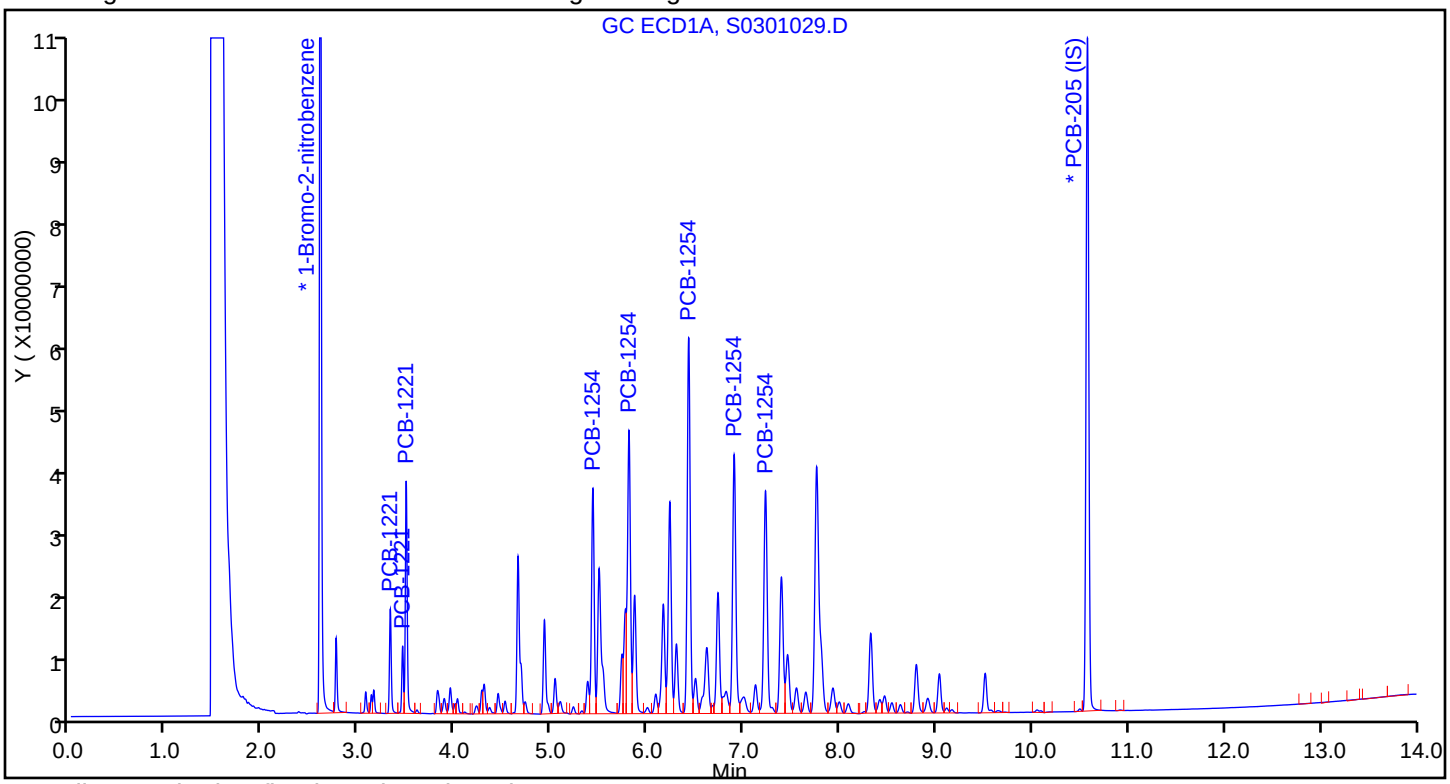
Client ID:

Operator ID: ALS Bottle#: 5 Worklist Smp#: 5

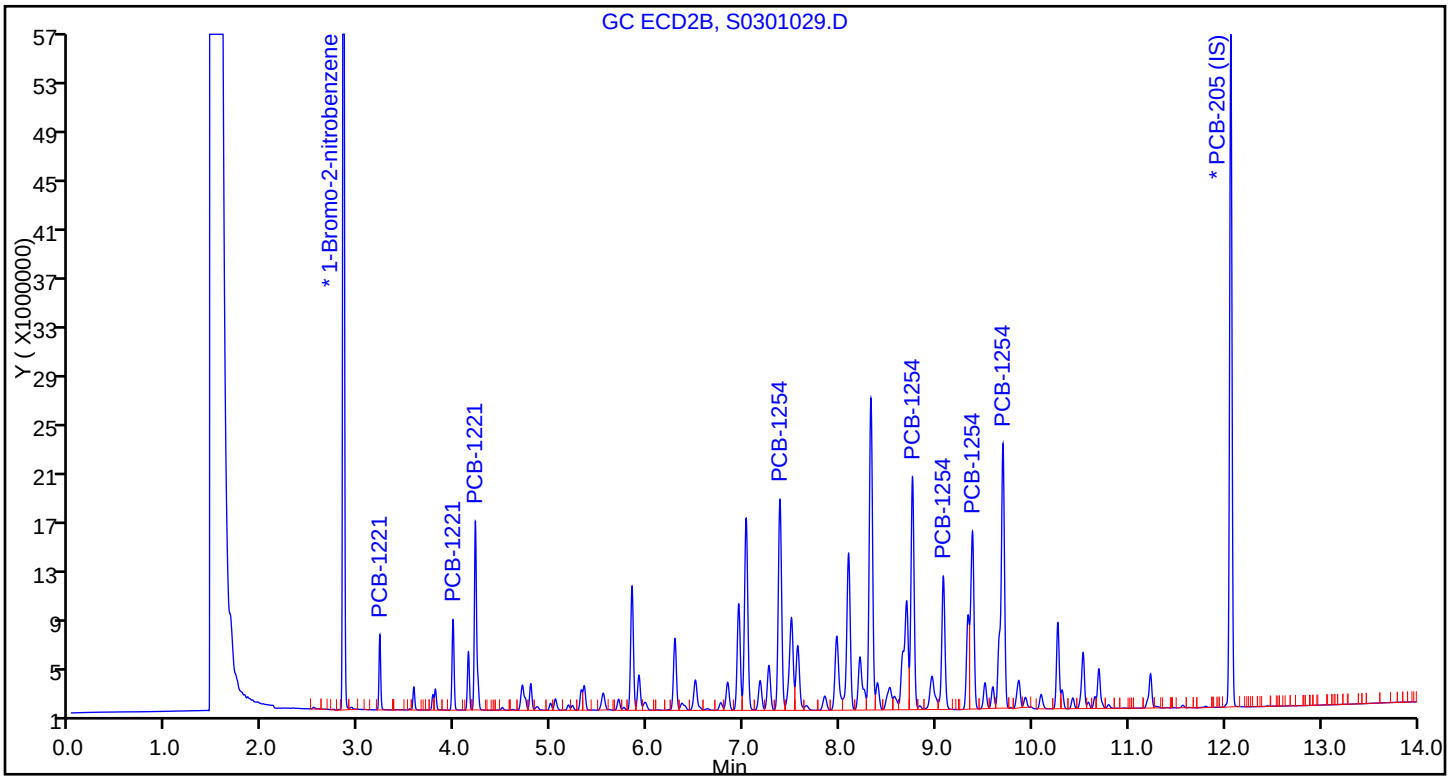
Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: IS PCB_CHGC10DUAL Limit Group: GCS 8082A ICAL with IS

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\S0301030.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 01-Mar-2018 14:09:42 ALS Bottle#: 6 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0020692-006
Operator ID: Instrument ID: CHGC10
Sublist: chrom-IS PCB_CHGC10DUAL*sub21

Method: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\IS PCB_CHGC10DUAL.m
Limit Group: GCS 8082A ICAL with IS
Last Update: 02-Mar-2018 05:57:05 Calib Date: 01-Mar-2018 20:27:10
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\S0301050.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK021

First Level Reviewer: oravecj Date: 02-Mar-2018 04:57:57

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 1-Bromo-2-nitrobenzene							
1	2.594	2.595	-0.001	157140494H	0.1000	0.1000	
2	2.836	2.836	0.000	98805811H	0.1000	0.1000	
3 PCB-1221							
1	3.321	3.322	-0.001	55628927H	4.00	3.36	
1	3.450	3.450	0.000	35007972H	4.00	3.41	
1	3.487	3.488	-0.001	126733167H	4.00	3.19	
		Average of Peak Amounts =				3.32	
2	3.213	3.213	0.000	23597365H	4.00	3.90	
2	3.975	3.975	0.000	28309521H	4.00	3.35	
2	4.207	4.207	0.000	57495396H	4.00	3.26	
		Average of Peak Amounts =				3.50	
						RPD = 5.30	
8 PCB-1254							
1	5.428	5.428	0.000	123734758H	4.00	3.39	
1	5.803	5.804	-0.001	156560549H	4.00	3.42	
1	6.424	6.425	-0.001	211020718H	4.00	3.58	
1	6.897	6.898	-0.001	148649981H	4.00	3.88	
1	7.223	7.224	-0.001	122855933H	4.00	3.45	
		Average of Peak Amounts =				3.54	
2	7.375	7.373	0.002	67498347H	4.00	3.48	
2	8.753	8.751	0.002	76468333H	4.00	3.65	
2	9.073	9.073	0.000	42896454H	4.00	3.44	
2	9.376	9.375	0.001	58545481H	4.00	3.82	
2	9.693	9.692	0.001	85875880H	4.00	3.65	
		Average of Peak Amounts =				3.61	
						RPD = 1.79	
* 46 PCB-205 (IS)							
1	10.572	10.573	0.000	99970514H	0.1000	0.1000	
2	12.064	12.064	0.000	54565660H	0.1000	0.1000	

Reagents:

GCAR2154CALL7_00006	Amount Added:	1.00	Units: mL	
PCBINT_00007	Amount Added:	0.01	Units: mL	Run Reagent

Report Date: 02-Mar-2018 05:57:07 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\S0301030.D

Injection Date: 01-Mar-2018 14:09:42 Instrument ID: CHGC10

Lims ID: IC

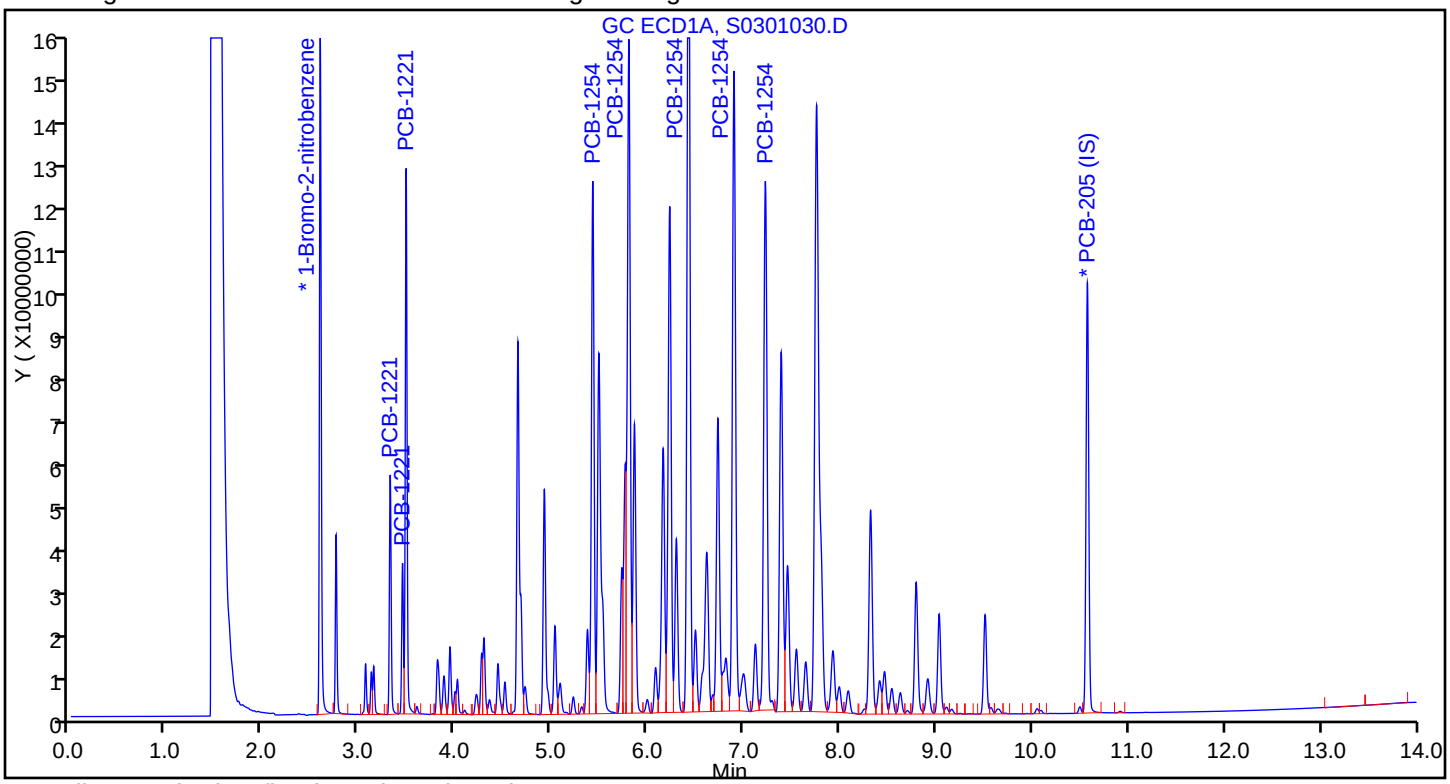
Client ID:

Operator ID: ALS Bottle#: 6 Worklist Smp#: 6

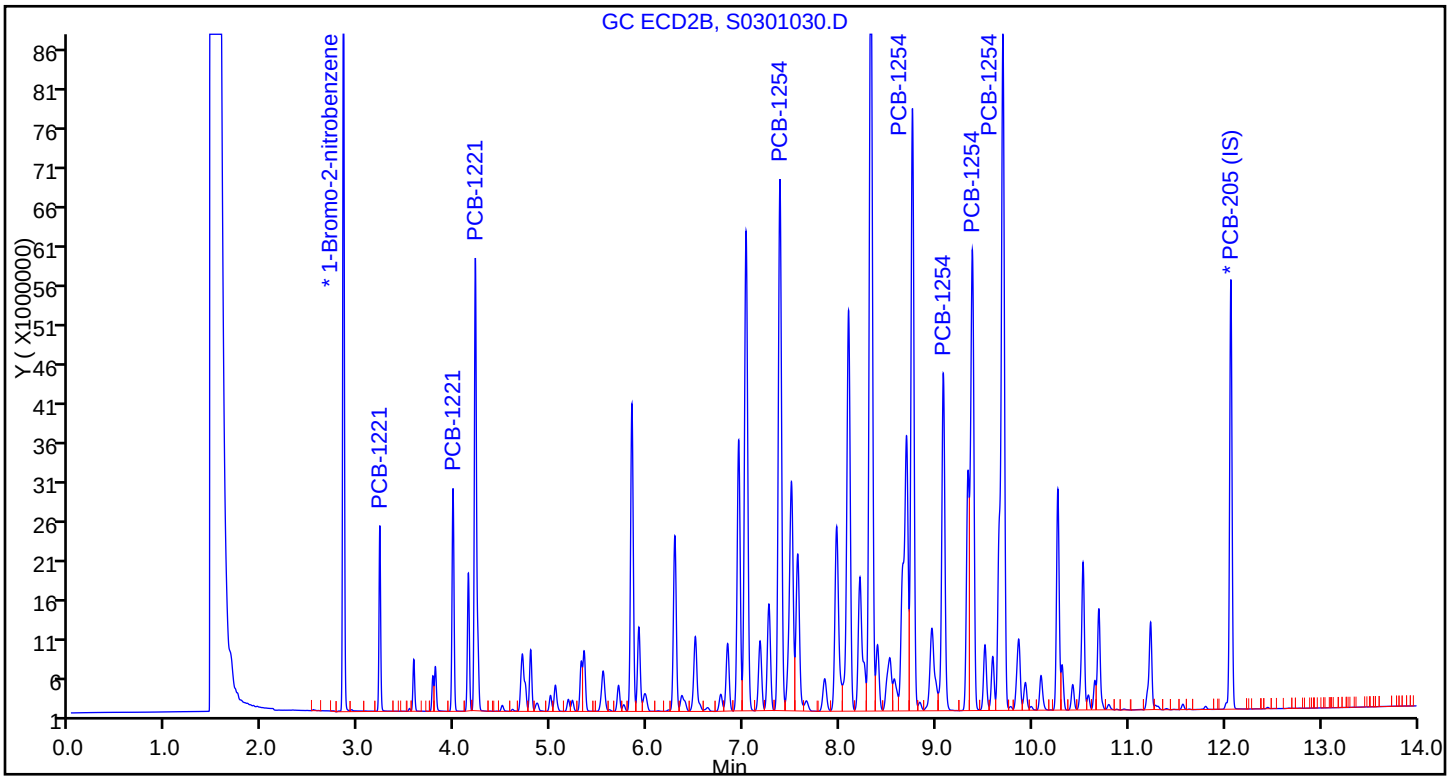
Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: IS PCB_CHGC10DUAL Limit Group: GCS 8082A ICAL with IS

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Pittsburgh Job No.: 180-78164-1 Analy Batch No.: 238236

SDG No.:

Instrument ID: CHGC10 GC Column: RTX-CLP2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/01/2018 12:35 Calibration End Date: 03/01/2018 14:09 Calibration ID: 37450

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 180-238236/1	S0301025.D
Level 2	IC 180-238236/2	S0301026.D
Level 3	IC 180-238236/3	S0301027.D
Level 4	IC 180-238236/4	S0301028.D
Level 5	IC 180-238236/5	S0301029.D
Level 6	IC 180-238236/6	S0301030.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
PCB-1221 Peak 1	0.0112 0.0060	0.0085	0.0075	0.0069	0.0061	Lin1	0.0001	0.0061							0.9960		0.9900
PCB-1221 Peak 2	0.0109 0.0072	0.0092	0.0086	0.0081	0.0074	Ave		0.0086				16.1		20.0			
PCB-1221 Peak 3	0.0239 0.0145	0.0189	0.0176	0.0169	0.0153	Ave		0.0178				18.7		20.0			
PCB-1254 Peak 1	0.0465 0.0309	0.0379	0.0346	0.0322	0.0314	Ave		0.0356				16.7		20.0			
PCB-1254 Peak 2	0.0469 0.0350	0.0400	0.0375	0.0360	0.0346	Ave		0.0383				12.1		20.0			
PCB-1254 Peak 3	0.0298 0.0197	0.0241	0.0227	0.0212	0.0198	Ave		0.0229				16.6		20.0			
PCB-1254 Peak 4	0.0317 0.0268	0.0287	0.0277	0.0271	0.0264	Ave		0.0281				6.9		20.0			
PCB-1254 Peak 5	0.0518 0.0393	0.0444	0.0429	0.0408	0.0393	Ave		0.0431				11.0		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Pittsburgh Job No.: 180-78164-1 Analy Batch No.: 238236

SDG No.:

Instrument ID: CHGC10 GC Column: RTX-CLP2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/01/2018 12:35 Calibration End Date: 03/01/2018 14:09 Calibration ID: 37450

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 180-238236/1	S0301025.D
Level 2	IC 180-238236/2	S0301026.D
Level 3	IC 180-238236/3	S0301027.D
Level 4	IC 180-238236/4	S0301028.D
Level 5	IC 180-238236/5	S0301029.D
Level 6	IC 180-238236/6	S0301030.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
PCB-1221 Peak 1	BNB	Lin1	109674 23597365	826190	1799615	3328901	6107988	0.0100 4.00	0.100	0.250	0.500	1.00
PCB-1221 Peak 2	BNB	Ave	106715 28309521	902471	2051705	3941118	7356246	0.0100 4.00	0.100	0.250	0.500	1.00
PCB-1221 Peak 3	BNB	Ave	234077 57495396	1845432	4203298	8207499	15299294	0.0100 4.00	0.100	0.250	0.500	1.00
PCB-1254 Peak 1	PCB205	Ave	243081 67498347	1964228	4594522	9027523	17102119	0.0100 4.00	0.100	0.250	0.500	1.00
PCB-1254 Peak 2	PCB205	Ave	245048 76468333	2071096	4982696	10091509	18876417	0.0100 4.00	0.100	0.250	0.500	1.00
PCB-1254 Peak 3	PCB205	Ave	155587 42896454	1251323	3010621	5936046	10789697	0.0100 4.00	0.100	0.250	0.500	1.00
PCB-1254 Peak 4	PCB205	Ave	165392 58545481	1489967	3682129	7592451	14415686	0.0100 4.00	0.100	0.250	0.500	1.00
PCB-1254 Peak 5	PCB205	Ave	270717 85875880	2302424	5691962	11434595	21444164	0.0100 4.00	0.100	0.250	0.500	1.00

Curve Type Legend:

Ave = Average ISTD by Height
Lin1 = Linear 1/Conc ISTD by Height

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\S0301025.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 01-Mar-2018 12:35:22 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0020692-001
Operator ID: Instrument ID: CHGC10
Sublist: chrom-IS PCB_CHGC10DUAL*sub21

Method: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\IS PCB_CHGC10DUAL.m
Limit Group: GCS 8082A ICAL with IS
Last Update: 02-Mar-2018 08:22:21 Calib Date: 01-Mar-2018 20:27:10
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\S0301050.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK021

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 1-Bromo-2-nitrobenzene							
1	2.594	2.595	-0.001	156087577H	0.1000	0.1000	
2	2.835	2.836	-0.001	98116185H	0.1000	0.1000	
3 PCB-1221							Ma
1	3.322	3.322	0.000	186044H	0.0100	0.0113	
1	3.450	3.450	0.000	163306H	0.0100	0.009878	M
1	3.488	3.488	0.000	532404H	0.0100	0.0135	M
		Average of Peak Amounts =				0.0116	
2	3.213	3.213	0.000	109674H	0.0100	0.005085	
2	3.973	3.975	-0.002	106715H	0.0100	0.0127	
2	4.207	4.207	0.000	234077H	0.0100	0.0134	
		Average of Peak Amounts =				0.0104	
						RPD = 10.74	
8 PCB-1254							
1	5.428	5.428	0.000	398303H	0.0100	0.0114	
1	5.804	5.804	0.000	524066H	0.0100	0.0119	
1	6.427	6.425	0.002	630879H	0.0100	0.0112	
1	6.902	6.898	0.004	372758H	0.0100	0.0102	
1	7.226	7.224	0.002	400039H	0.0100	0.0117	
		Average of Peak Amounts =				0.0113	
2	7.373	7.373	0.000	243081H	0.0100	0.0131	
2	8.754	8.751	0.003	245048H	0.0100	0.0122	
2	9.072	9.073	-0.001	155587H	0.0100	0.0130	
2	9.375	9.375	0.000	165392H	0.0100	0.0113	
2	9.693	9.692	0.001	270717H	0.0100	0.0120	
		Average of Peak Amounts =				0.0123	
						RPD = 8.97	
* 46 PCB-205 (IS)							
1	10.572	10.573	0.000	95837218H	0.1000	0.1000	
2	12.063	12.064	-0.001	52223080H	0.1000	0.1000	

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

GCAR2154CALL1_00018	Amount Added:	1.00	Units: mL	
PCBINT_00007	Amount Added:	0.01	Units: mL	Run Reagent

Report Date: 02-Mar-2018 08:22:25 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\S0301025.D

Injection Date: 01-Mar-2018 12:35:22 Instrument ID: CHGC10

Lims ID: IC

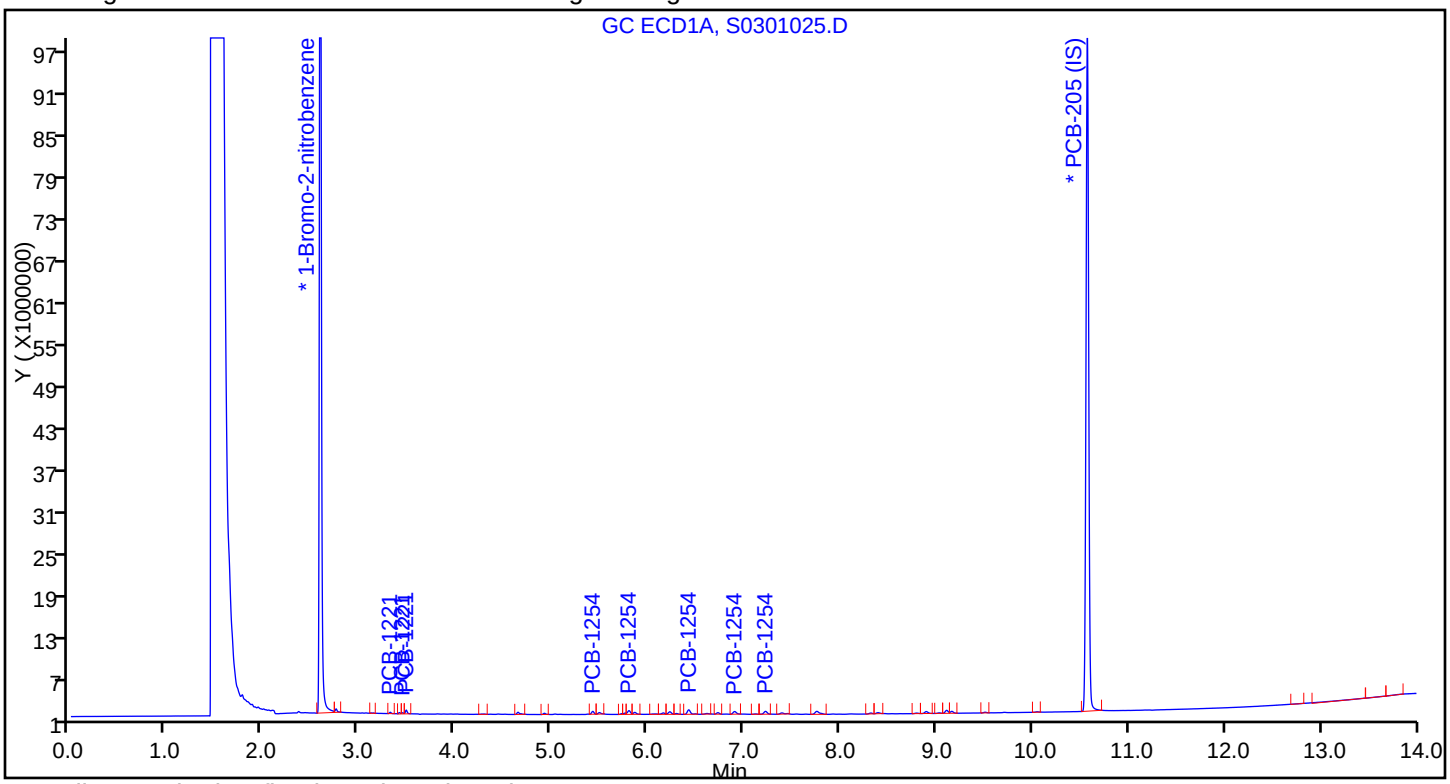
Client ID:

Operator ID: ALS Bottle#: 1 Worklist Smp#: 1

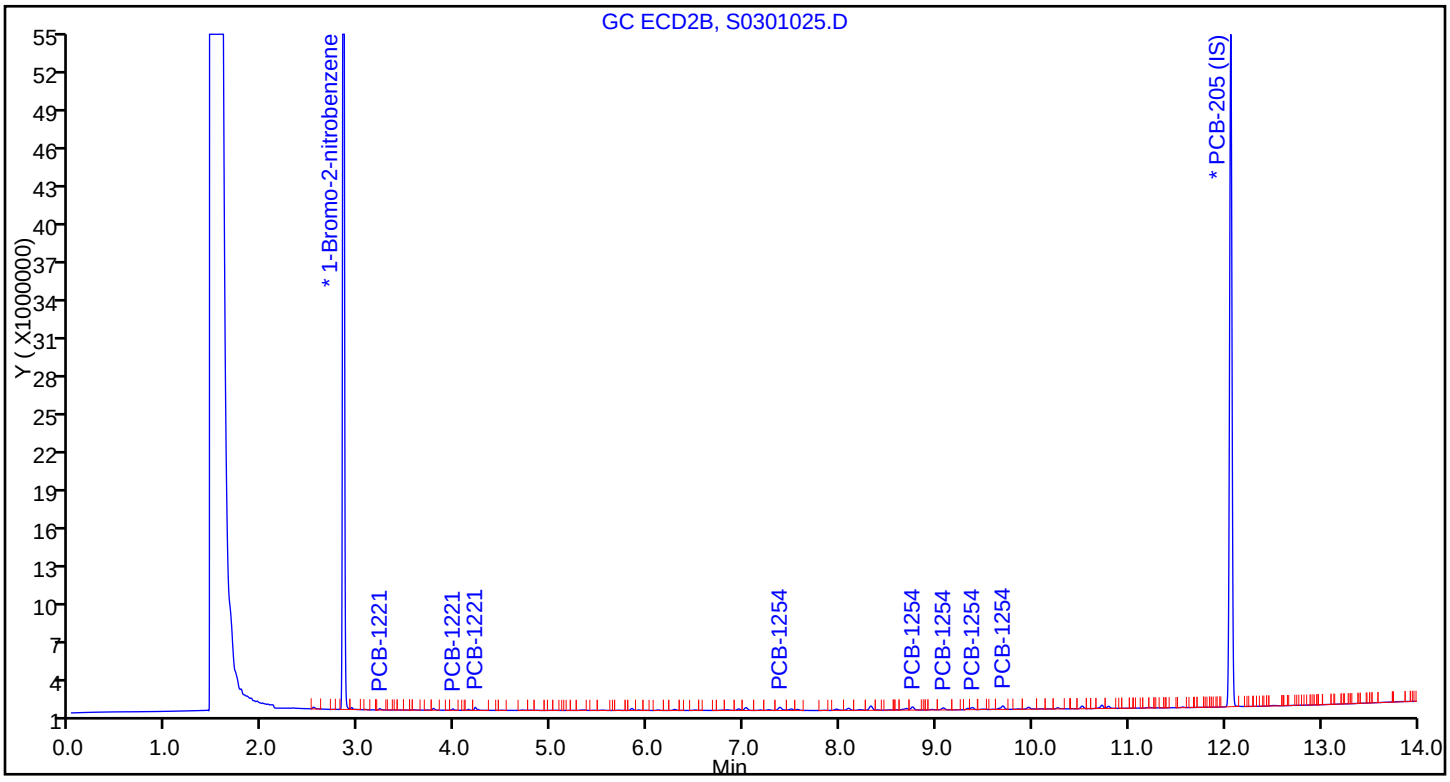
Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: IS PCB_CHGC10DUAL Limit Group: GCS 8082A ICAL with IS

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\S0301026.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 01-Mar-2018 12:54:16 ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0020692-002
Operator ID: Instrument ID: CHGC10
Sublist: chrom-IS PCB_CHGC10DUAL*sub21

Method: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\IS PCB_CHGC10DUAL.m
Limit Group: GCS 8082A ICAL with IS
Last Update: 02-Mar-2018 05:57:23 Calib Date: 01-Mar-2018 20:27:10
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\S0301050.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK021

First Level Reviewer: oravecj Date: 02-Mar-2018 04:56:28

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 1-Bromo-2-nitrobenzene							
1	2.595	2.595	0.000	157093599H	0.1000	0.1000	
2	2.836	2.836	0.000	97705267H	0.1000	0.1000	
3 PCB-1221							
1	3.322	3.322	0.000	1780267H	0.1000	0.1076	
1	3.451	3.450	0.001	1173822H	0.1000	0.1084	
1	3.489	3.488	0.001	4138175H	0.1000	0.1043	
		Average of Peak Amounts =				0.1068	
2	3.214	3.213	0.001	826190H	0.1000	0.1253	
2	3.975	3.975	0.000	902471H	0.1000	0.1080	
2	4.207	4.207	0.000	1845432H	0.1000	0.1059	
		Average of Peak Amounts =				0.1130	
						RPD = 5.68	
8 PCB-1254							
1	5.428	5.428	0.000	3822775H	0.1000	0.1123	
1	5.804	5.804	0.000	4668098H	0.1000	0.1094	
1	6.426	6.425	0.001	5824451H	0.1000	0.1059	
1	6.901	6.898	0.003	3624110H	0.1000	0.1016	
1	7.224	7.224	0.000	3567466H	0.1000	0.1073	
		Average of Peak Amounts =				0.1073	
2	7.375	7.373	0.002	1964228H	0.1000	0.1065	
2	8.754	8.751	0.003	2071096H	0.1000	0.1042	
2	9.074	9.073	0.001	1251323H	0.1000	0.1055	
2	9.378	9.375	0.003	1489967H	0.1000	0.1023	
2	9.696	9.692	0.004	2302424H	0.1000	0.1030	
		Average of Peak Amounts =				0.1043	
						RPD = 2.81	
* 46 PCB-205 (IS)							
1	10.572	10.573	0.000	93226545H	0.1000	0.1000	
2	12.065	12.064	0.000	51839187H	0.1000	0.1000	

Reagents:

GCAR2154CALL2_00014	Amount Added:	1.00	Units: mL	
PCBINT_00007	Amount Added:	0.01	Units: mL	Run Reagent

Report Date: 02-Mar-2018 05:57:24 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\S0301026.D

Injection Date: 01-Mar-2018 12:54:16 Instrument ID: CHGC10

Lims ID: IC

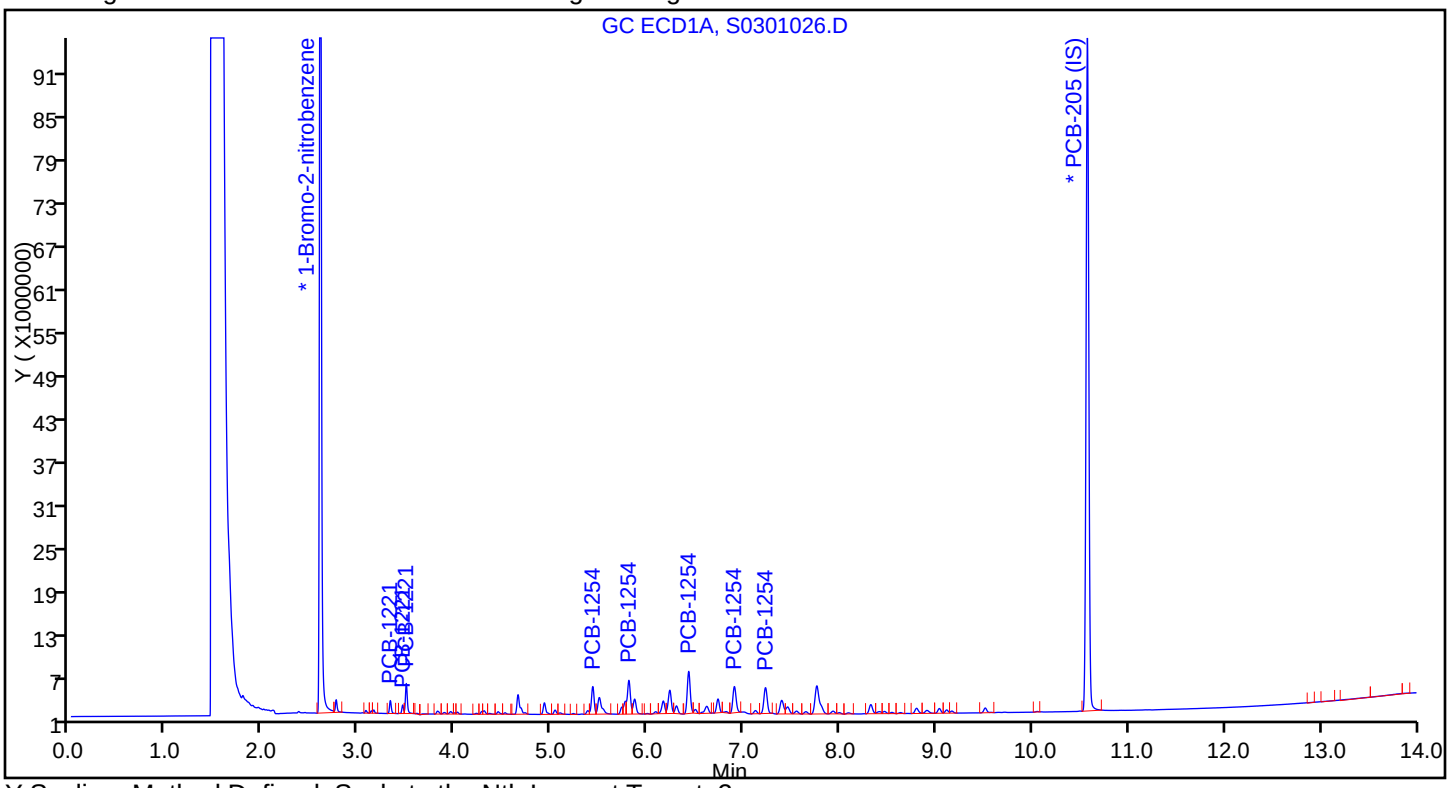
Client ID:

Operator ID: ALS Bottle#: 2 Worklist Smp#: 2

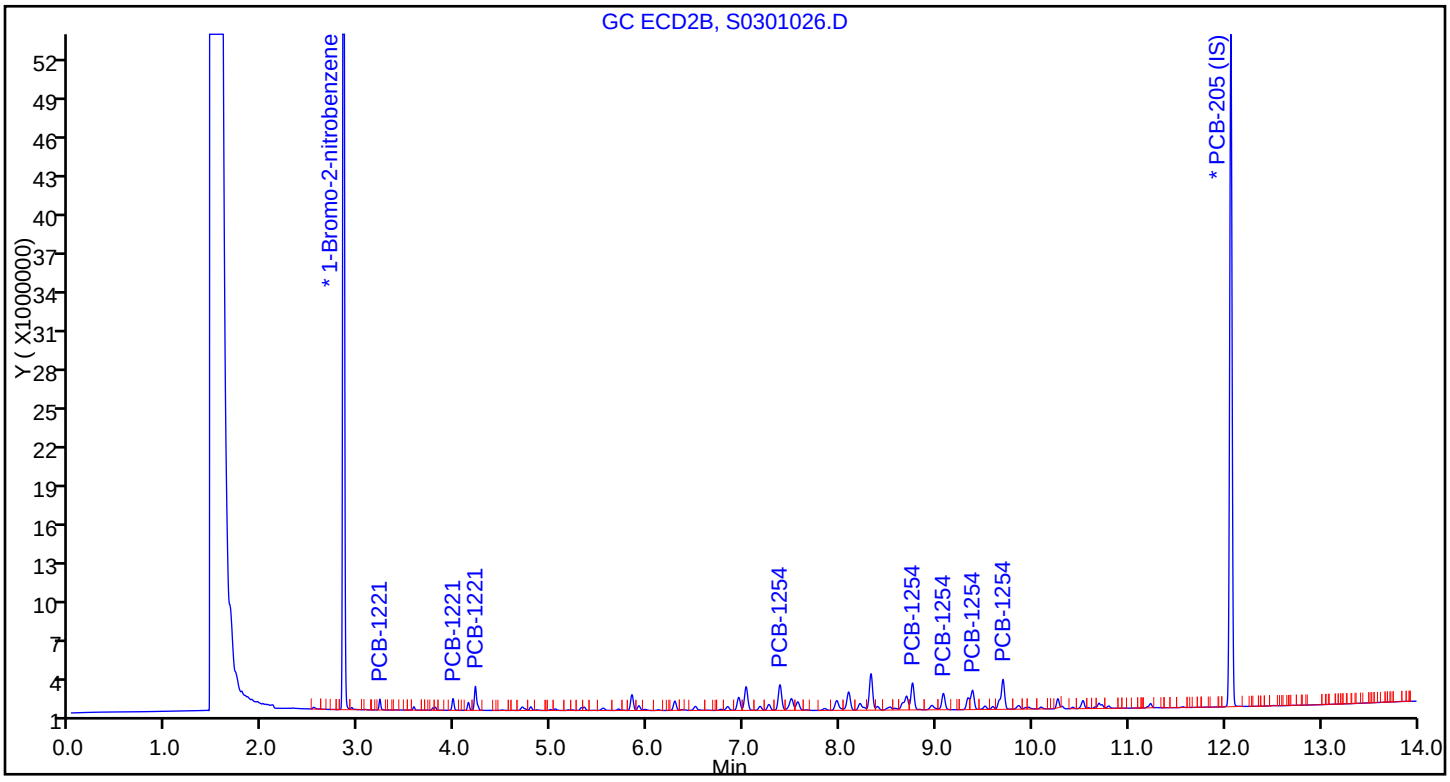
Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: IS PCB_CHGC10DUAL Limit Group: GCS 8082A ICAL with IS

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\S0301027.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 01-Mar-2018 13:13:08 ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0020692-003
Operator ID: Instrument ID: CHGC10
Sublist: chrom-IS PCB_CHGC10DUAL*sub21

Method: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\IS PCB_CHGC10DUAL.m
Limit Group: GCS 8082A ICAL with IS
Last Update: 02-Mar-2018 05:57:19 Calib Date: 01-Mar-2018 20:27:10
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\S0301050.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK021

First Level Reviewer: oravecj Date: 02-Mar-2018 04:57:06

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 1-Bromo-2-nitrobenzene							
1	2.595	2.595	0.000	154204531H	0.1000	0.1000	
2	2.837	2.836	0.001	95601197H	0.1000	0.1000	
3 PCB-1221							
1	3.323	3.322	0.001	4258510H	0.2500	0.2623	
1	3.452	3.450	0.002	2832222H	0.2500	0.2755	
1	3.489	3.488	0.001	9875837H	0.2500	0.2537	
		Average of Peak Amounts =				0.2638	
2	3.214	3.213	0.001	1799615H	0.2500	0.2952	
2	3.975	3.975	0.000	2051705H	0.2500	0.2509	
2	4.207	4.207	0.000	4203298H	0.2500	0.2464	
		Average of Peak Amounts =				0.2642	
						RPD = 0.13	
8 PCB-1254							
1	5.431	5.428	0.003	9123871H	0.2500	0.2546	
1	5.806	5.804	0.002	11233766H	0.2500	0.2502	
1	6.427	6.425	0.002	14650189H	0.2500	0.2532	
1	6.902	6.898	0.004	9365575H	0.2500	0.2494	
1	7.226	7.224	0.002	8803719H	0.2500	0.2516	
		Average of Peak Amounts =				0.2518	
2	7.373	7.373	0.000	4594522H	0.2500	0.2431	
2	8.753	8.751	0.002	4982696H	0.2500	0.2447	
2	9.072	9.073	-0.001	3010621H	0.2500	0.2478	
2	9.376	9.375	0.001	3682129H	0.2500	0.2469	
2	9.692	9.692	0.000	5691962H	0.2500	0.2486	
		Average of Peak Amounts =				0.2462	
						RPD = 2.25	
* 46 PCB-205 (IS)							
1	10.572	10.573	0.000	98102769H	0.1000	0.1000	
2	12.064	12.064	0.000	53108570H	0.1000	0.1000	

Reagents:

GCAR2154CALL3_00014	Amount Added:	1.00	Units: mL	
PCBINT_00007	Amount Added:	0.01	Units: mL	Run Reagent

Report Date: 02-Mar-2018 05:57:21 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\S0301027.D

Injection Date: 01-Mar-2018 13:13:08 Instrument ID: CHGC10

Lims ID: IC

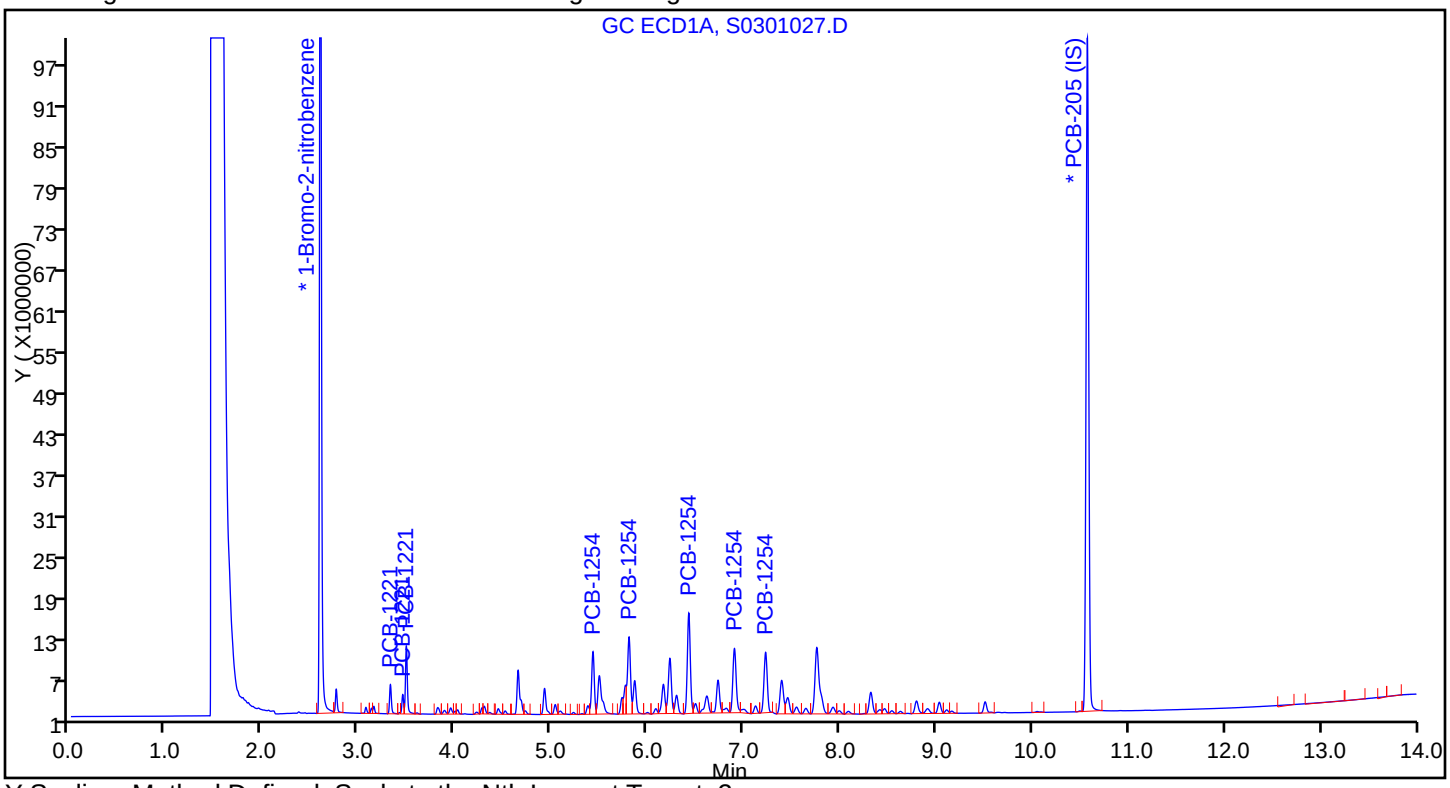
Client ID:

Operator ID: ALS Bottle#: 3 Worklist Smp#: 3

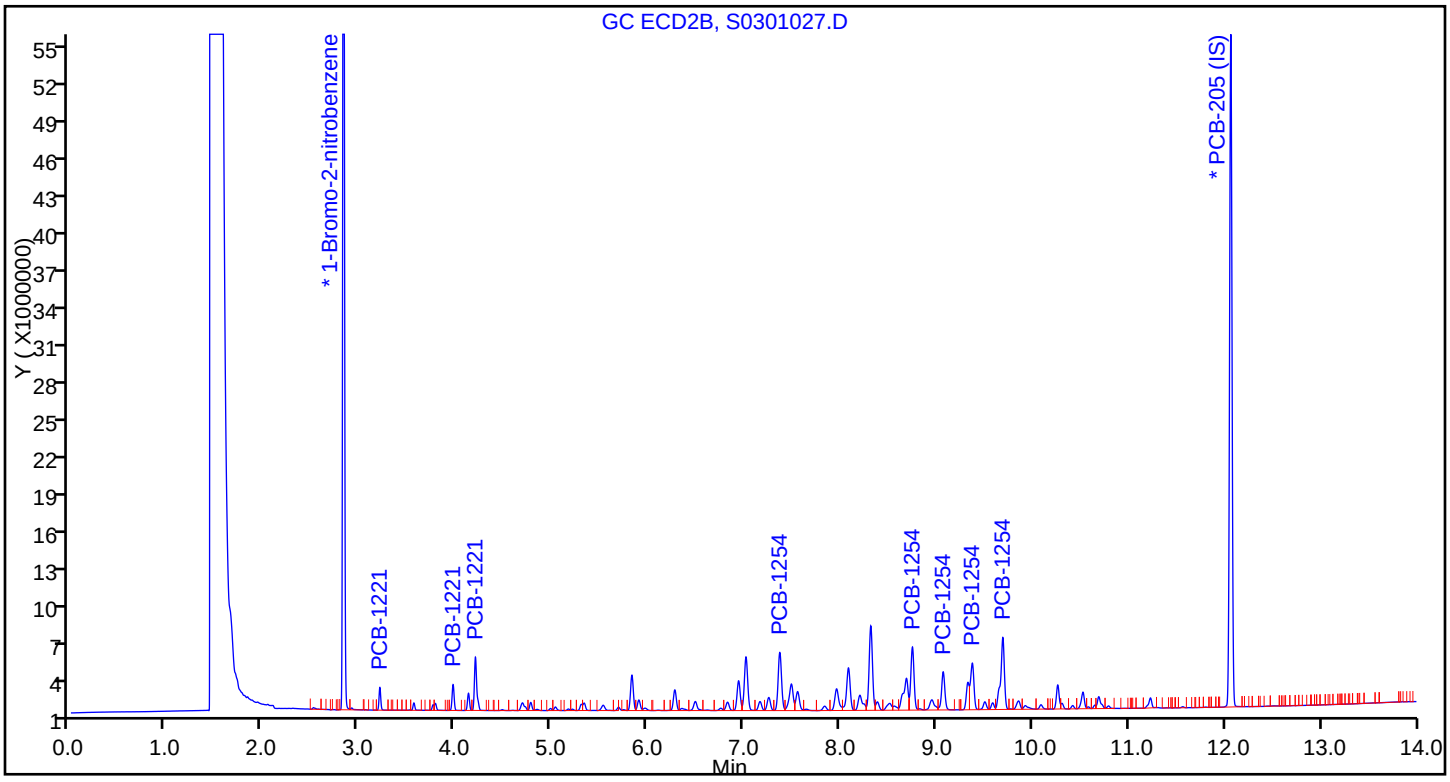
Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: IS PCB_CHGC10DUAL Limit Group: GCS 8082A ICAL with IS

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\S0301028.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 01-Mar-2018 13:31:59 ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0020692-004
Operator ID: Instrument ID: CHGC10
Sublist: chrom-IS PCB_CHGC10DUAL*sub21

Method: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\IS PCB_CHGC10DUAL.m
Limit Group: GCS 8082A ICAL with IS
Last Update: 02-Mar-2018 05:57:14 Calib Date: 01-Mar-2018 20:27:10
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\S0301050.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK021

First Level Reviewer: oravecj Date: 02-Mar-2018 04:57:24

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 1-Bromo-2-nitrobenzene							
1	2.594	2.595	-0.001	158602485H	0.1000	0.1000	
2	2.835	2.836	-0.001	97184030H	0.1000	0.1000	
3 PCB-1221							
1	3.322	3.322	0.000	8275909H	0.5000	0.4955	
1	3.450	3.450	0.000	5404806H	0.5000	0.5165	
1	3.488	3.488	0.000	18923877H	0.5000	0.4726	
		Average of Peak Amounts =				0.4949	
2	3.213	3.213	0.000	3328901H	0.5000	0.5480	
2	3.975	3.975	0.000	3941118H	0.5000	0.4741	
2	4.207	4.207	0.000	8207499H	0.5000	0.4733	
		Average of Peak Amounts =				0.4985	
						RPD = 0.72	
8 PCB-1254							
1	5.428	5.428	0.000	18147781H	0.5000	0.4781	
1	5.804	5.804	0.000	22240519H	0.5000	0.4676	
1	6.425	6.425	0.000	29760200H	0.5000	0.4855	
1	6.898	6.898	0.000	19778595H	0.5000	0.4972	
1	7.224	7.224	0.000	17819993H	0.5000	0.4808	
		Average of Peak Amounts =				0.4818	
2	7.373	7.373	0.000	9027523H	0.5000	0.4528	
2	8.751	8.751	0.000	10091509H	0.5000	0.4698	
2	9.073	9.073	0.000	5936046H	0.5000	0.4633	
2	9.375	9.375	0.000	7592451H	0.5000	0.4826	
2	9.692	9.692	0.000	11434595H	0.5000	0.4736	
		Average of Peak Amounts =				0.4684	
						RPD = 2.83	
* 46 PCB-205 (IS)							
1	10.570	10.573	-0.002	103921318H	0.1000	0.1000	
2	12.063	12.064	-0.001	56015345H	0.1000	0.1000	

Reagents:

GCAR2154CALL4_00018	Amount Added:	1.00	Units: mL	
PCBINT_00007	Amount Added:	0.01	Units: mL	Run Reagent

Report Date: 02-Mar-2018 05:57:16 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\S0301028.D

Injection Date: 01-Mar-2018 13:31:59 Instrument ID: CHGC10

Lims ID: IC

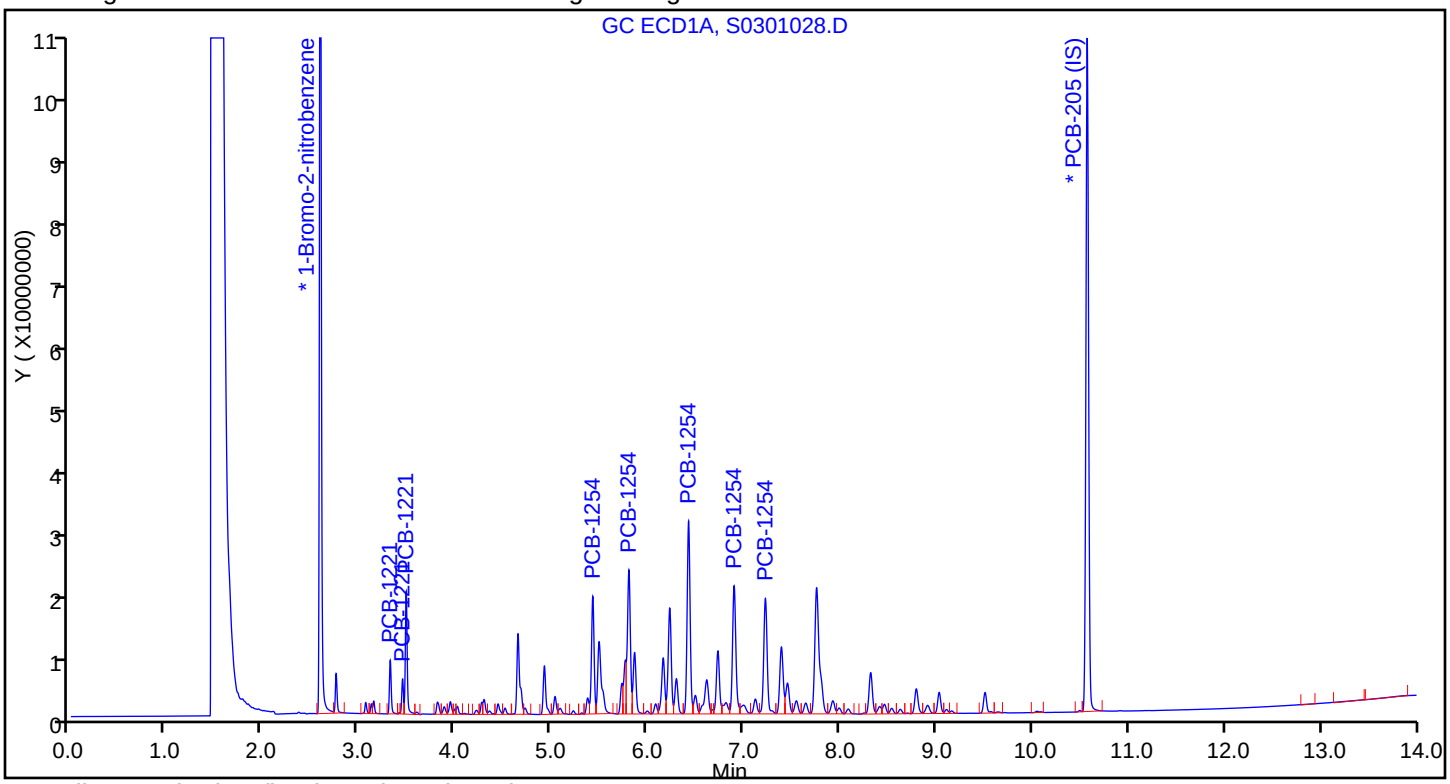
Client ID:

Operator ID: ALS Bottle#: 4 Worklist Smp#: 4

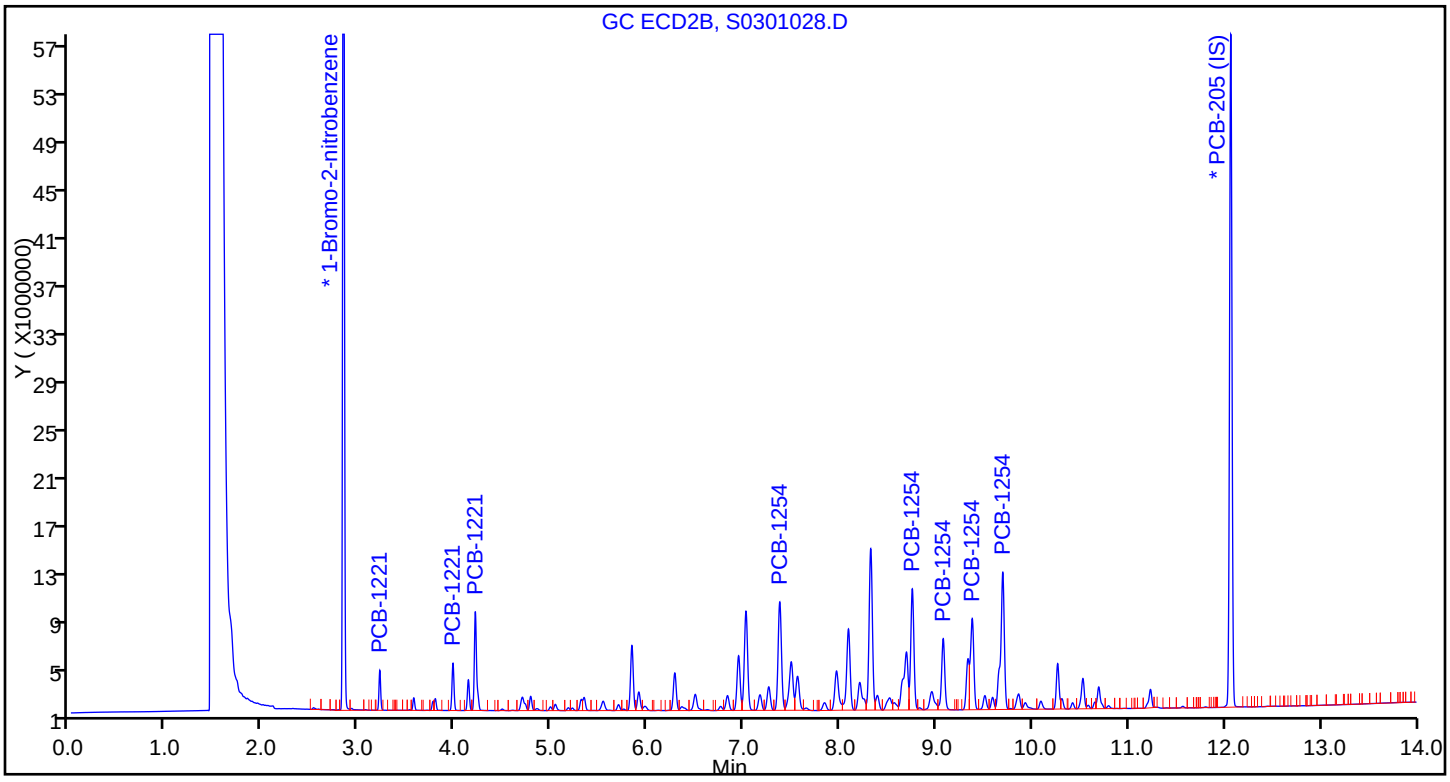
Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: IS PCB_CHGC10DUAL Limit Group: GCS 8082A ICAL with IS

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\S0301029.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 01-Mar-2018 13:50:50 ALS Bottle#: 5 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0020692-005
Operator ID: Instrument ID: CHGC10
Sublist: chrom-IS PCB_CHGC10DUAL*sub21

Method: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\IS PCB_CHGC10DUAL.m
Limit Group: GCS 8082A ICAL with IS
Last Update: 02-Mar-2018 05:57:10 Calib Date: 01-Mar-2018 20:27:10
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\S0301050.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK021

First Level Reviewer: oravecj Date: 02-Mar-2018 04:57:41

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 1-Bromo-2-nitrobenzene							
1	2.594	2.595	-0.001	161384295H	0.1000	0.1000	
2	2.836	2.836	0.000	100067029H	0.1000	0.1000	
3 PCB-1221							
1	3.323	3.322	0.001	15483865H	1.00	0.9112	
1	3.450	3.450	0.000	9955488H	1.00	0.9400	
1	3.488	3.488	0.000	34503592H	1.00	0.8469	
		Average of Peak Amounts =				0.8993	
2	3.214	3.213	0.001	6107988H	1.00	0.9868	
2	3.975	3.975	0.000	7356246H	1.00	0.8594	
2	4.207	4.207	0.000	15299294H	1.00	0.8569	
		Average of Peak Amounts =				0.9010	
						RPD = 0.19	
8 PCB-1254							
1	5.429	5.428	0.001	33484626H	1.00	0.9178	
1	5.804	5.804	0.000	42044872H	1.00	0.9197	
1	6.425	6.425	0.000	55775666H	1.00	0.9467	
1	6.899	6.898	0.001	38431663H	1.00	1.01	
1	7.224	7.224	0.000	33027360H	1.00	0.9272	
		Average of Peak Amounts =				0.9433	
2	7.375	7.373	0.002	17102119H	1.00	0.8812	
2	8.753	8.751	0.002	18876417H	1.00	0.9027	
2	9.074	9.073	0.001	10789697H	1.00	0.8651	
2	9.377	9.375	0.002	14415686H	1.00	0.9413	
2	9.694	9.692	0.002	21444164H	1.00	0.9124	
		Average of Peak Amounts =				0.9005	
						RPD = 4.64	
* 46 PCB-205 (IS)							
1	10.573	10.573	0.000	99880865H	0.1000	0.1000	
2	12.064	12.064	-0.001	54527792H	0.1000	0.1000	

Reagents:

GCAR2154CALL5_00014	Amount Added:	1.00	Units: mL	
PCBINT_00007	Amount Added:	0.01	Units: mL	Run Reagent

Report Date: 02-Mar-2018 05:57:12 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\S0301029.D

Injection Date: 01-Mar-2018 13:50:50 Instrument ID: CHGC10

Lims ID: IC

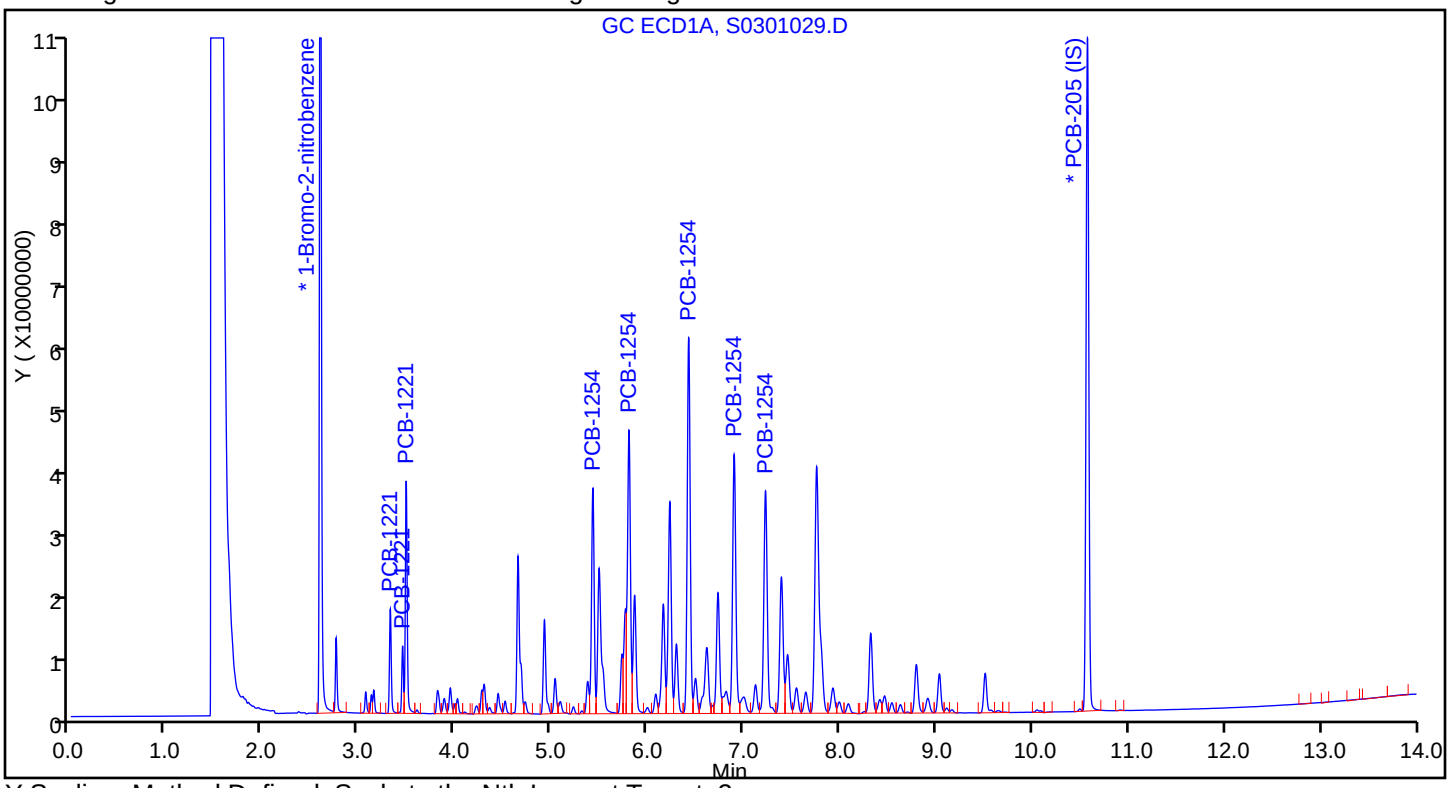
Client ID:

Operator ID: ALS Bottle#: 5 Worklist Smp#: 5

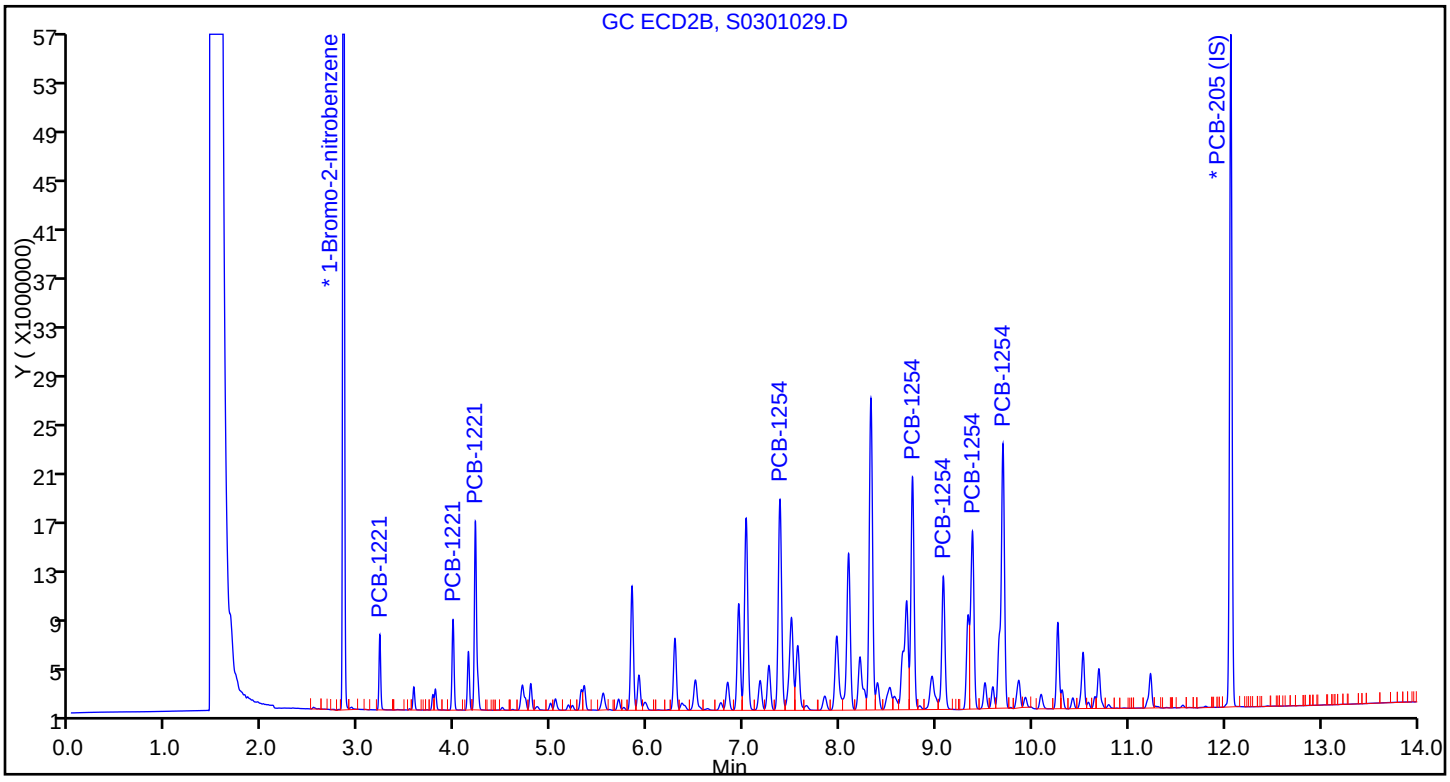
Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: IS PCB_CHGC10DUAL Limit Group: GCS 8082A ICAL with IS

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\S0301030.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 01-Mar-2018 14:09:42 ALS Bottle#: 6 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0020692-006
Operator ID: Instrument ID: CHGC10
Sublist: chrom-IS PCB_CHGC10DUAL*sub21

Method: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\IS PCB_CHGC10DUAL.m
Limit Group: GCS 8082A ICAL with IS
Last Update: 02-Mar-2018 05:57:05 Calib Date: 01-Mar-2018 20:27:10
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\S0301050.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK021

First Level Reviewer: oravecj Date: 02-Mar-2018 04:57:57

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 1-Bromo-2-nitrobenzene							
1	2.594	2.595	-0.001	157140494H	0.1000	0.1000	
2	2.836	2.836	0.000	98805811H	0.1000	0.1000	
3 PCB-1221							
1	3.321	3.322	-0.001	55628927H	4.00	3.36	
1	3.450	3.450	0.000	35007972H	4.00	3.41	
1	3.487	3.488	-0.001	126733167H	4.00	3.19	
		Average of Peak Amounts =				3.32	
2	3.213	3.213	0.000	23597365H	4.00	3.90	
2	3.975	3.975	0.000	28309521H	4.00	3.35	
2	4.207	4.207	0.000	57495396H	4.00	3.26	
		Average of Peak Amounts =				3.50	
						RPD = 5.30	
8 PCB-1254							
1	5.428	5.428	0.000	123734758H	4.00	3.39	
1	5.803	5.804	-0.001	156560549H	4.00	3.42	
1	6.424	6.425	-0.001	211020718H	4.00	3.58	
1	6.897	6.898	-0.001	148649981H	4.00	3.88	
1	7.223	7.224	-0.001	122855933H	4.00	3.45	
		Average of Peak Amounts =				3.54	
2	7.375	7.373	0.002	67498347H	4.00	3.48	
2	8.753	8.751	0.002	76468333H	4.00	3.65	
2	9.073	9.073	0.000	42896454H	4.00	3.44	
2	9.376	9.375	0.001	58545481H	4.00	3.82	
2	9.693	9.692	0.001	85875880H	4.00	3.65	
		Average of Peak Amounts =				3.61	
						RPD = 1.79	
* 46 PCB-205 (IS)							
1	10.572	10.573	0.000	99970514H	0.1000	0.1000	
2	12.064	12.064	0.000	54565660H	0.1000	0.1000	

Reagents:

GCAR2154CALL7_00006	Amount Added:	1.00	Units: mL	
PCBINT_00007	Amount Added:	0.01	Units: mL	Run Reagent

Report Date: 02-Mar-2018 05:57:07 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\S0301030.D

Injection Date: 01-Mar-2018 14:09:42 Instrument ID: CHGC10

Lims ID: IC

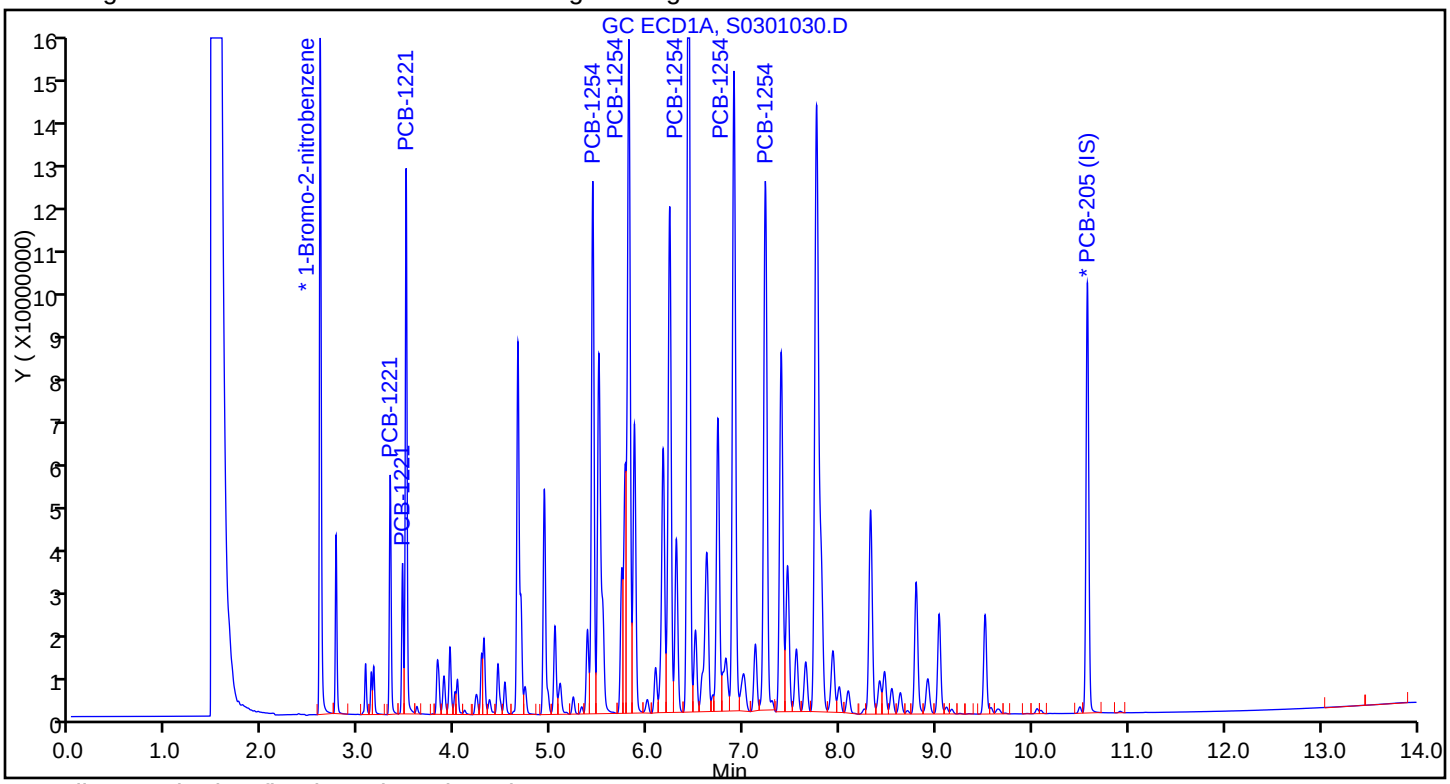
Client ID:

Operator ID: ALS Bottle#: 6 Worklist Smp#: 6

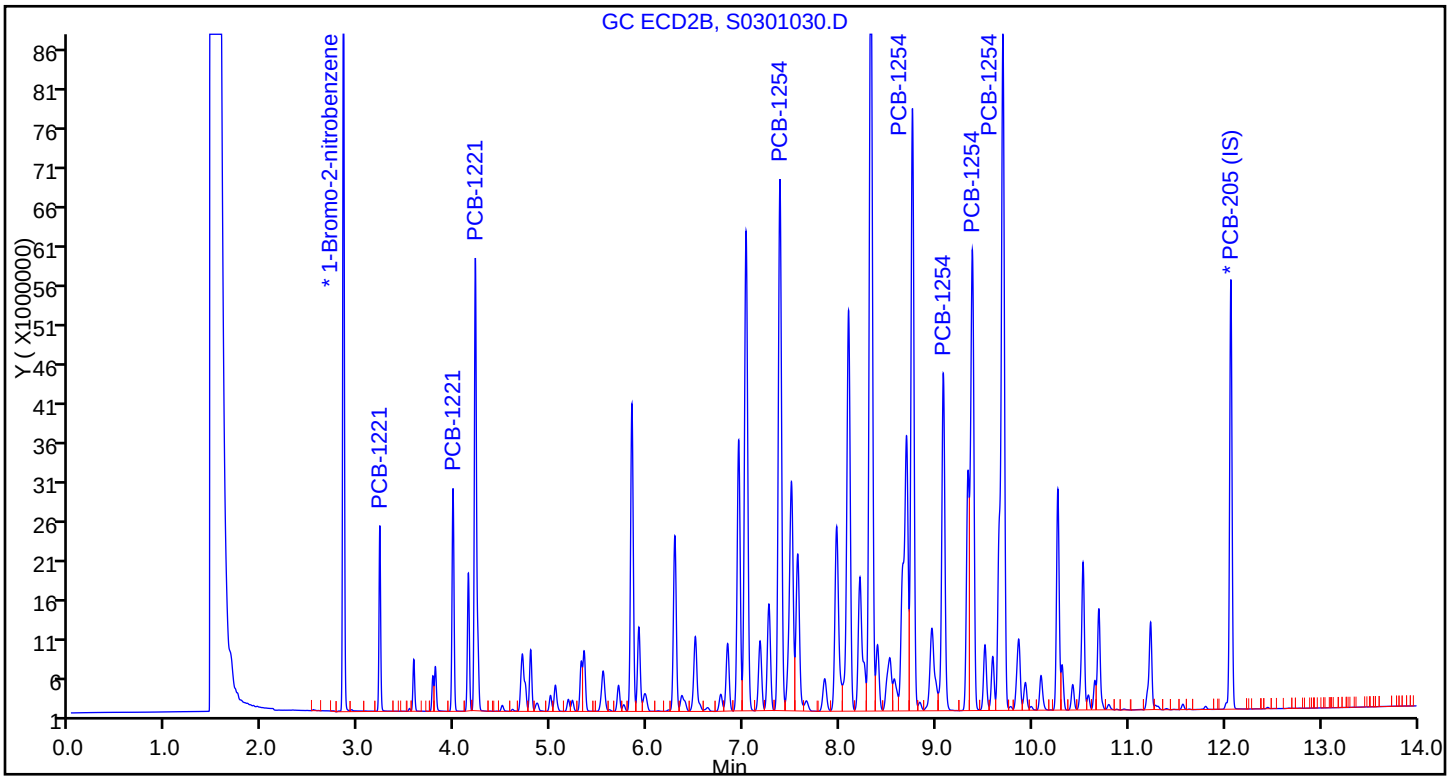
Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: IS PCB_CHGC10DUAL Limit Group: GCS 8082A ICAL with IS

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Pittsburgh Job No.: 180-78164-1 Analy Batch No.: 238236

SDG No.:

Instrument ID: CHGC10 GC Column: RTX-CLP1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/01/2018 14:28 Calibration End Date: 03/01/2018 14:28 Calibration ID: 37480

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 180-238236/7	S0301031.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1						B	M1	M2								
PCB-1232 Peak 1	0.0071					Ave		0.0071						20.0			
PCB-1232 Peak 2	0.0115					Ave		0.0115						20.0			
PCB-1232 Peak 3	0.0065					Ave		0.0065						20.0			
PCB-1232 Peak 4	0.0098					Ave		0.0098						20.0			
PCB-1232 Peak 5	0.0075					Ave		0.0075						20.0			
PCB-1262 Peak 1	0.0307					Ave		0.0307						20.0			
PCB-1262 Peak 2	0.0395					Ave		0.0395						20.0			
PCB-1262 Peak 3	0.0456					Ave		0.0456						20.0			
PCB-1262 Peak 4	0.0440					Ave		0.0440						20.0			
PCB-1262 Peak 5	0.0407					Ave		0.0407						20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Pittsburgh Job No.: 180-78164-1 Analy Batch No.: 238236

SDG No.:

Instrument ID: CHGC10 GC Column: RTX-CLP1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/01/2018 14:28 Calibration End Date: 03/01/2018 14:28 Calibration ID: 37480

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 180-238236/7	S0301031.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG)				
			LVL 1					LVL 1				
PCB-1232 Peak 1	BNB	Ave	5630558					0.500				
PCB-1232 Peak 2	BNB	Ave	9059571					0.500				
PCB-1232 Peak 3	BNB	Ave	5101456					0.500				
PCB-1232 Peak 4	BNB	Ave	7746825					0.500				
PCB-1232 Peak 5	BNB	Ave	5881386					0.500				
PCB-1262 Peak 1	PCB20	Ave	15852584					0.500				
PCB-1262 Peak 2	PCB20	Ave	20409261					0.500				
PCB-1262 Peak 3	PCB20	Ave	23535312					0.500				
PCB-1262 Peak 4	PCB20	Ave	22721557					0.500				
PCB-1262 Peak 5	PCB20	Ave	20982051					0.500				

Curve Type Legend:
Ave = Average ISTD by Height

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\S0301031.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 01-Mar-2018 14:28:33 ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0020692-007
Operator ID: Instrument ID: CHGC10
Sublist: chrom-IS PCB_CHGC10DUAL*sub22

Method: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\IS PCB_CHGC10DUAL.m
Limit Group: GCS 8082A ICAL with IS
Last Update: 02-Mar-2018 08:22:05 Calib Date: 01-Mar-2018 20:27:10
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\S0301050.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK021

First Level Reviewer: oravecj Date: 02-Mar-2018 04:59:28

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 1-Bromo-2-nitrobenzene							
1	2.594	2.595	-0.001	157578921H	0.1000	0.1000	
2	2.835	2.836	-0.001	97125284H	0.1000	0.1000	
4 PCB-1232							
1	3.322	3.322	0.000	5630558H	0.5000	0.5000	
1	3.814	3.814	0.000	9059571H	0.5000	0.5000	
1	4.020	4.020	0.000	5101456H	0.5000	0.5000	
1	4.443	4.443	0.000	7746825H	0.5000	0.5000	
1	4.926	4.926	0.000	5881386H	0.5000	0.5000	
		Average of Peak Amounts =				0.5000	
2	3.974	3.974	0.000	2695113H	0.5000	0.5000	
2	4.701	4.701	0.000	3827345H	0.5000	0.5000	
2	5.038	5.038	0.000	2093419H	0.5000	0.5000	
2	5.536	5.536	0.000	3366644H	0.5000	0.5000	
2	5.696	5.696	0.000	2412758H	0.5000	0.5000	
		Average of Peak Amounts =				0.5000	
						RPD = 0.00	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
10 PCB-1262							
1	6.729	6.729	0.000	15852584H	0.5000	0.5000	
1	7.222	7.222	0.000	20409261H	0.5000	0.5000	
1	7.991	7.991	0.000	23535312H	0.5000	0.5000	
1	8.462	8.462	0.000	22721557H	0.5000	0.5000	
1	9.572	9.572	0.000	20982051H	0.5000	0.5000	
		Average of Peak Amounts =				0.5000	
2	8.691	8.691	0.000	7381613H	0.5000	0.5000	
2	9.839	9.839	0.000	14013704H	0.5000	0.5000	
2	10.309	10.309	0.000	13384333H	0.5000	0.5000	
2	10.690	10.690	0.000	27494565H	0.5000	0.5000	
2	11.217	11.217	0.000	15753597H	0.5000	0.5000	
		Average of Peak Amounts =				0.5000	
						RPD = 0.00	
* 46 PCB-205 (IS)							
1	10.573	10.573	0.000	103208601H	0.1000	0.1000	
2	12.064	12.064	-0.001	57098045H	0.1000	0.1000	

Reagents:

GCAR3262CALL4_00010	Amount Added:	1.00	Units: mL	
PCBINT_00007	Amount Added:	0.01	Units: mL	Run Reagent

Report Date: 02-Mar-2018 08:22:07 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\S0301031.D

Injection Date: 01-Mar-2018 14:28:33 Instrument ID: CHGC10

Lims ID: IC

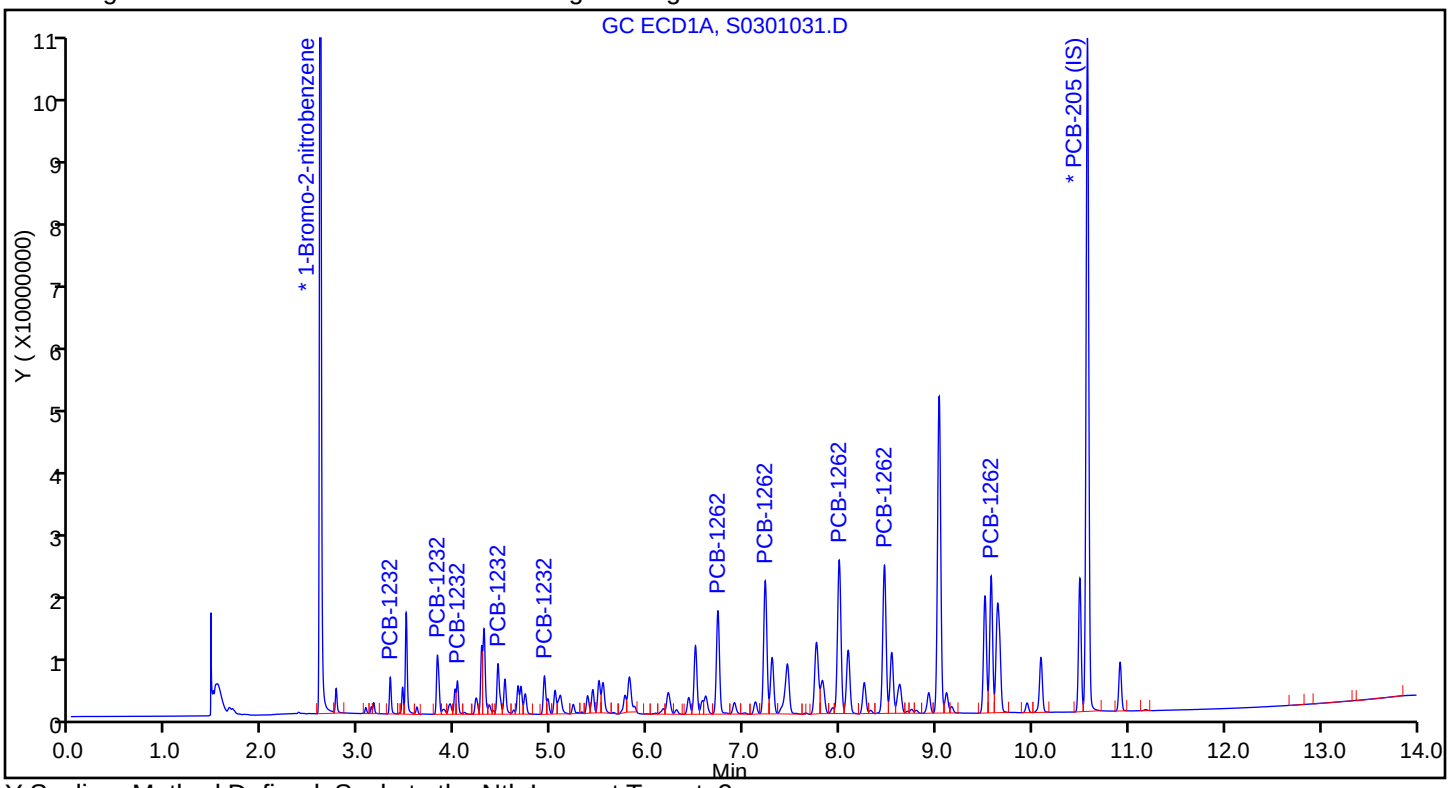
Client ID:

Operator ID: ALS Bottle#: 7 Worklist Smp#: 7

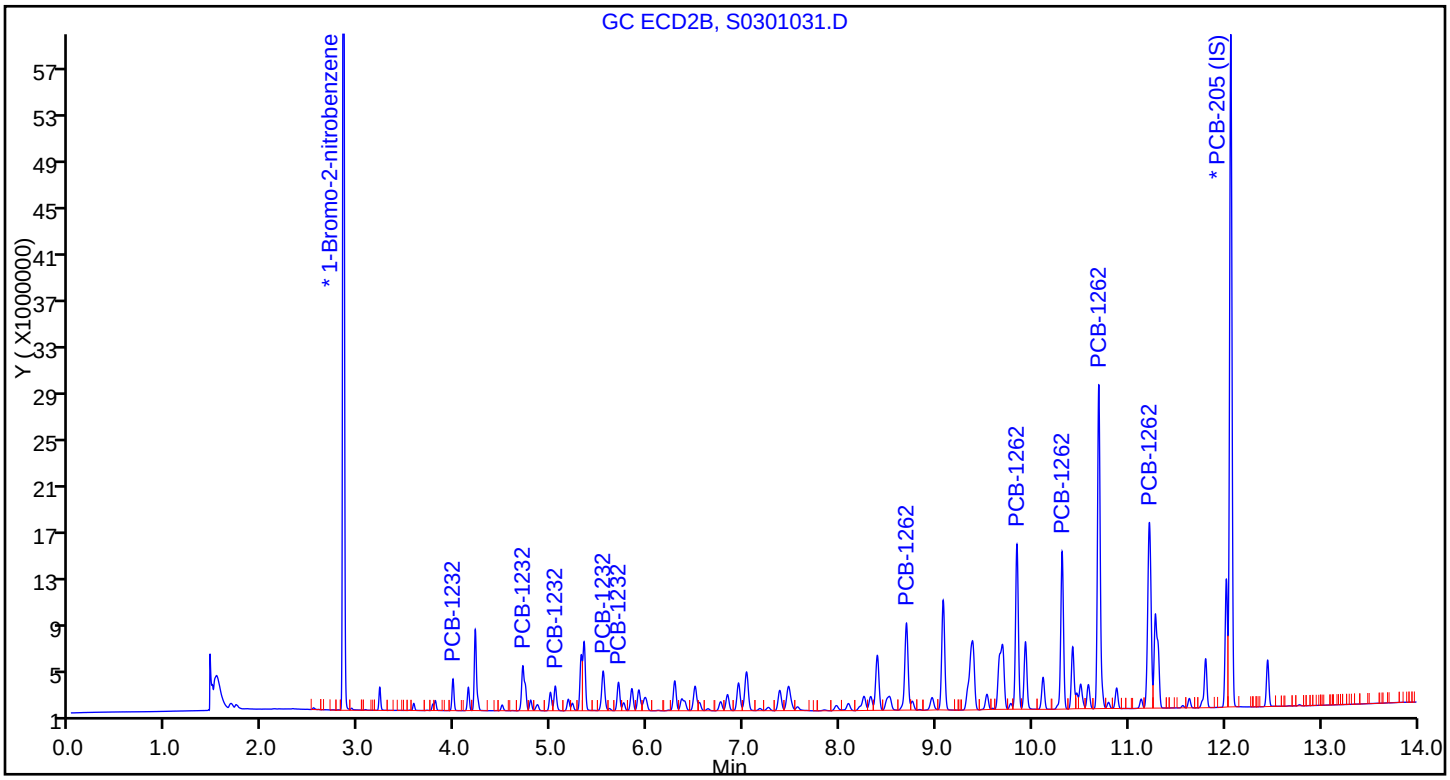
Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: IS PCB_CHGC10DUAL Limit Group: GCS 8082A ICAL with IS

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Pittsburgh Job No.: 180-78164-1 Analy Batch No.: 238236

SDG No.:

Instrument ID: CHGC10 GC Column: RTX-CLP2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/01/2018 14:28 Calibration End Date: 03/01/2018 14:28 Calibration ID: 37481

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 180-238236/7	S0301031.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1						B	M1	M2								
PCB-1232 Peak 1	0.0055					Ave		0.0055						20.0			
PCB-1232 Peak 2	0.0079					Ave		0.0079						20.0			
PCB-1232 Peak 3	0.0043					Ave		0.0043						20.0			
PCB-1232 Peak 4	0.0069					Ave		0.0069						20.0			
PCB-1232 Peak 5	0.0050					Ave		0.0050						20.0			
PCB-1262 Peak 1	0.0259					Ave		0.0259						20.0			
PCB-1262 Peak 2	0.0491					Ave		0.0491						20.0			
PCB-1262 Peak 3	0.0469					Ave		0.0469						20.0			
PCB-1262 Peak 4	0.0963					Ave		0.0963						20.0			
PCB-1262 Peak 5	0.0552					Ave		0.0552						20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Pittsburgh Job No.: 180-78164-1 Analy Batch No.: 238236

SDG No.:

Instrument ID: CHGC10 GC Column: RTX-CLP2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/01/2018 14:28 Calibration End Date: 03/01/2018 14:28 Calibration ID: 37481

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 180-238236/7	S0301031.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG)				
			LVL 1					LVL 1				
PCB-1232 Peak 1	BNB	Ave	2695113					0.500				
PCB-1232 Peak 2	BNB	Ave	3827345					0.500				
PCB-1232 Peak 3	BNB	Ave	2093419					0.500				
PCB-1232 Peak 4	BNB	Ave	3366644					0.500				
PCB-1232 Peak 5	BNB	Ave	2412758					0.500				
PCB-1262 Peak 1	PCB20	Ave	7381613					0.500				
PCB-1262 Peak 2	PCB20	Ave	14013704					0.500				
PCB-1262 Peak 3	PCB20	Ave	13384333					0.500				
PCB-1262 Peak 4	PCB20	Ave	27494565					0.500				
PCB-1262 Peak 5	PCB20	Ave	15753597					0.500				

Curve Type Legend:
Ave = Average ISTD by Height

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\S0301031.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 01-Mar-2018 14:28:33 ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0020692-007
Operator ID: Instrument ID: CHGC10
Sublist: chrom-IS PCB_CHGC10DUAL*sub22

Method: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\IS PCB_CHGC10DUAL.m
Limit Group: GCS 8082A ICAL with IS
Last Update: 02-Mar-2018 08:22:05 Calib Date: 01-Mar-2018 20:27:10
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\S0301050.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK021

First Level Reviewer: oravecj Date: 02-Mar-2018 04:59:28

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 1-Bromo-2-nitrobenzene							
1	2.594	2.595	-0.001	157578921H	0.1000	0.1000	
2	2.835	2.836	-0.001	97125284H	0.1000	0.1000	
4 PCB-1232							
1	3.322	3.322	0.000	5630558H	0.5000	0.5000	
1	3.814	3.814	0.000	9059571H	0.5000	0.5000	
1	4.020	4.020	0.000	5101456H	0.5000	0.5000	
1	4.443	4.443	0.000	7746825H	0.5000	0.5000	
1	4.926	4.926	0.000	5881386H	0.5000	0.5000	
		Average of Peak Amounts =				0.5000	
2	3.974	3.974	0.000	2695113H	0.5000	0.5000	
2	4.701	4.701	0.000	3827345H	0.5000	0.5000	
2	5.038	5.038	0.000	2093419H	0.5000	0.5000	
2	5.536	5.536	0.000	3366644H	0.5000	0.5000	
2	5.696	5.696	0.000	2412758H	0.5000	0.5000	
		Average of Peak Amounts =				0.5000	
						RPD = 0.00	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
10 PCB-1262							
1	6.729	6.729	0.000	15852584H	0.5000	0.5000	
1	7.222	7.222	0.000	20409261H	0.5000	0.5000	
1	7.991	7.991	0.000	23535312H	0.5000	0.5000	
1	8.462	8.462	0.000	22721557H	0.5000	0.5000	
1	9.572	9.572	0.000	20982051H	0.5000	0.5000	
		Average of Peak Amounts =				0.5000	
2	8.691	8.691	0.000	7381613H	0.5000	0.5000	
2	9.839	9.839	0.000	14013704H	0.5000	0.5000	
2	10.309	10.309	0.000	13384333H	0.5000	0.5000	
2	10.690	10.690	0.000	27494565H	0.5000	0.5000	
2	11.217	11.217	0.000	15753597H	0.5000	0.5000	
		Average of Peak Amounts =				0.5000	
						RPD = 0.00	
* 46 PCB-205 (IS)							
1	10.573	10.573	0.000	103208601H	0.1000	0.1000	
2	12.064	12.064	-0.001	57098045H	0.1000	0.1000	

Reagents:

GCAR3262CALL4_00010	Amount Added:	1.00	Units: mL	
PCBINT_00007	Amount Added:	0.01	Units: mL	Run Reagent

Report Date: 02-Mar-2018 08:22:07 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\S0301031.D

Injection Date: 01-Mar-2018 14:28:33 Instrument ID: CHGC10

Lims ID: IC

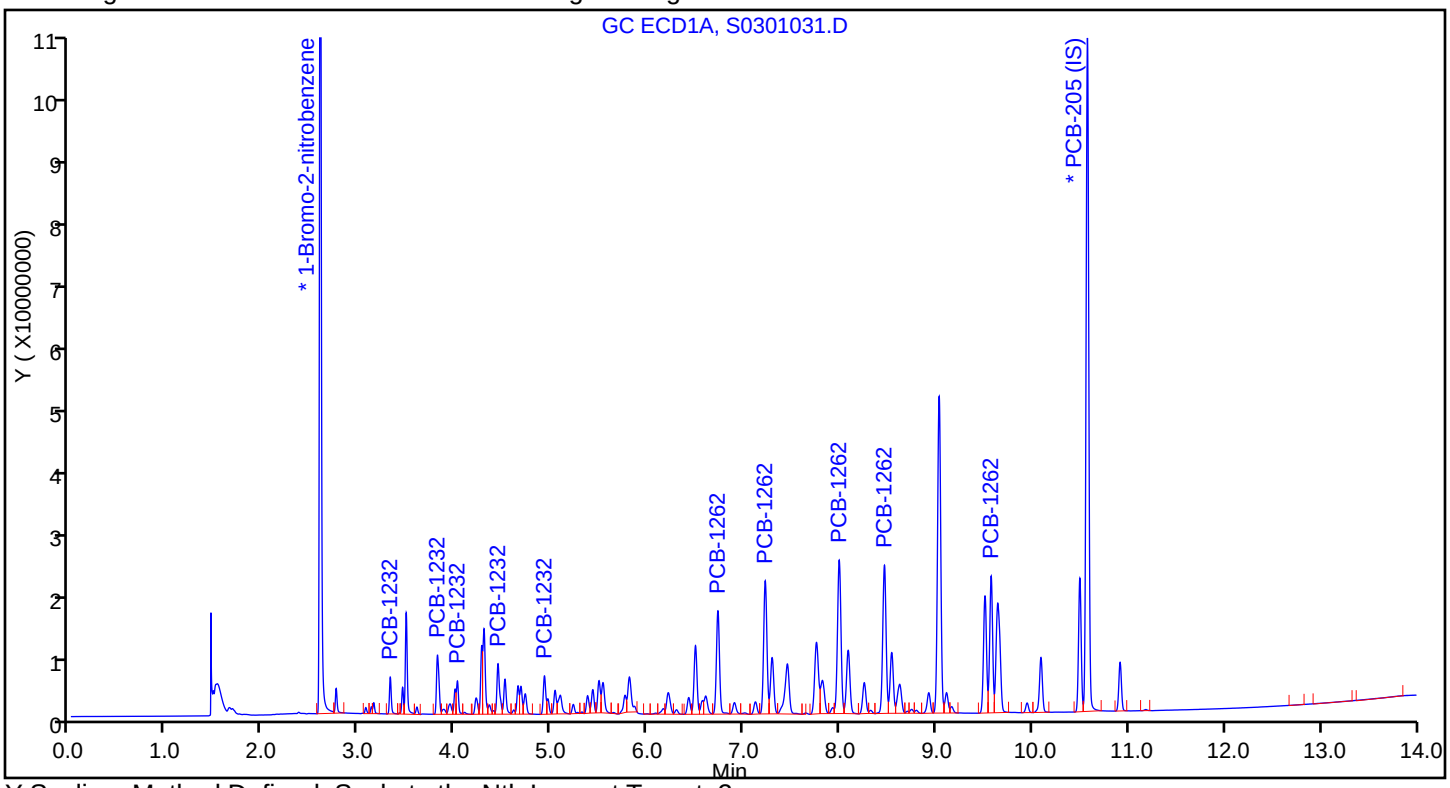
Client ID:

Operator ID: ALS Bottle#: 7 Worklist Smp#: 7

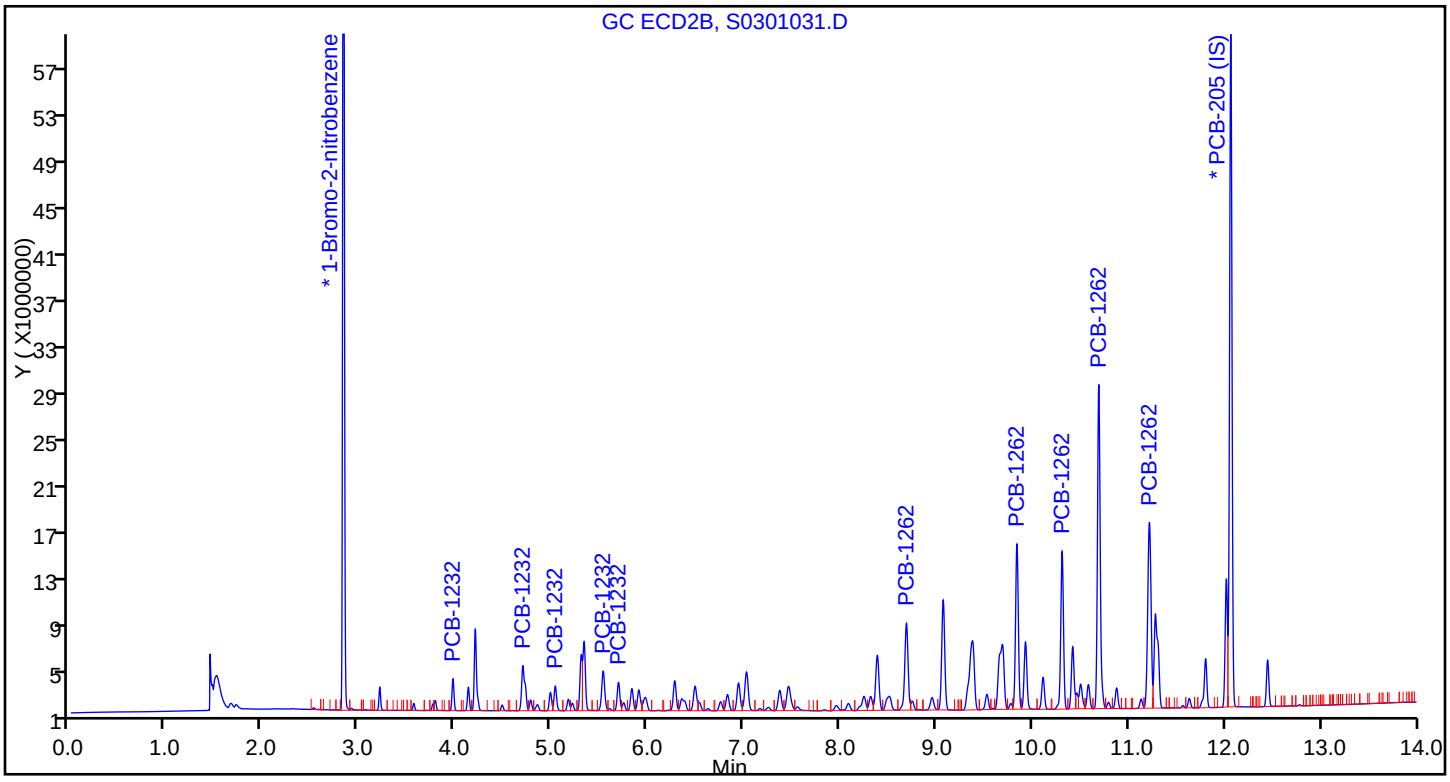
Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: IS PCB_CHGC10DUAL Limit Group: GCS 8082A ICAL with IS

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Pittsburgh Job No.: 180-78164-1 Analy Batch No.: 238236

SDG No.:

Instrument ID: CHGC10 GC Column: RTX-CLP1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/01/2018 14:47 Calibration End Date: 03/01/2018 16:21 Calibration ID: 37431

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 180-238236/8	S0301032.D
Level 2	IC 180-238236/9	S0301033.D
Level 3	IC 180-238236/10	S0301034.D
Level 4	IC 180-238236/11	S0301035.D
Level 5	IC 180-238236/12	S0301036.D
Level 6	IC 180-238236/13	S0301037.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
PCB-1242 Peak 1	0.0186 0.0115	0.0158	0.0147	0.0138	0.0132	Ave		0.0146				16.5		20.0			
PCB-1242 Peak 2	0.0306 0.0276	0.0310	0.0311	0.0298	0.0299	Ave		0.0300				4.3		20.0			
PCB-1242 Peak 3	0.0190 0.0156	0.0185	0.0181	0.0168	0.0171	Ave		0.0175				7.2		20.0			
PCB-1242 Peak 4	0.0178 0.0130	0.0162	0.0155	0.0144	0.0141	Ave		0.0152				11.3		20.0			
PCB-1242 Peak 5	0.0118 0.0133	0.0131	0.0135	0.0127	0.0132	Ave		0.0129				4.8		20.0			
PCB-1268 Peak 1	0.1373 0.1051	0.1279	0.1214	0.1174	0.1134	Ave		0.1204				9.3		20.0			
PCB-1268 Peak 2	0.1155 0.0924	0.1089	0.1052	0.1022	0.0984	Ave		0.1038				7.8		20.0			
PCB-1268 Peak 3	0.1145 0.0891	0.1075	0.1006	0.0972	0.0953	Ave		0.1007				9.0		20.0			
PCB-1268 Peak 4	0.3795 0.2955	0.3642	0.3411	0.3294	0.3243	Ave		0.3390				8.8		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Pittsburgh Job No.: 180-78164-1 Analy Batch No.: 238236

SDG No.:

Instrument ID: CHGC10 GC Column: RTX-CLP1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/01/2018 14:47 Calibration End Date: 03/01/2018 16:21 Calibration ID: 37431

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 180-238236/8	S0301032.D
Level 2	IC 180-238236/9	S0301033.D
Level 3	IC 180-238236/10	S0301034.D
Level 4	IC 180-238236/11	S0301035.D
Level 5	IC 180-238236/12	S0301036.D
Level 6	IC 180-238236/13	S0301037.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
PCB-1242 Peak 1	BNB	Ave	315128 80715446	2588849	6151114	11488586	22037993	0.0100 4.00	0.100	0.250	0.500	1.00
PCB-1242 Peak 2	BNB	Ave	518133 193014326	5080577	13011699	24738575	49805999	0.0100 4.00	0.100	0.250	0.500	1.00
PCB-1242 Peak 3	BNB	Ave	321551 109127889	3034513	7589019	13947450	28390162	0.0100 4.00	0.100	0.250	0.500	1.00
PCB-1242 Peak 4	BNB	Ave	301995 90975092	2655082	6489818	11946937	23447274	0.0100 4.00	0.100	0.250	0.500	1.00
PCB-1242 Peak 5	BNB	Ave	199621 92719935	2152519	5654564	10575044	21884635	0.0100 4.00	0.100	0.250	0.500	1.00
PCB-1268 Peak 1	PCB205	Ave	1618035 526191857	13686748	36474891	59127306	122648527	0.0100 4.00	0.100	0.250	0.500	1.00
PCB-1268 Peak 2	PCB205	Ave	1361214 462569514	11646234	31617057	51468275	106386230	0.0100 4.00	0.100	0.250	0.500	1.00
PCB-1268 Peak 3	PCB205	Ave	1349551 446025094	11495960	30228757	48969891	103040414	0.0100 4.00	0.100	0.250	0.500	1.00
PCB-1268 Peak 4	PCB205	Ave	4473132 1478958438	38965764	102470912	165909945	350743922	0.0100 4.00	0.100	0.250	0.500	1.00

Curve Type Legend:
Ave = Average ISTD by Height

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\S0301032.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 01-Mar-2018 14:47:26 ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0020692-008
Operator ID: Instrument ID: CHGC10
Sublist: chrom-IS PCB_CHGC10DUAL*sub23

Method: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\IS PCB_CHGC10DUAL.m
Limit Group: GCS 8082A ICAL with IS
Last Update: 02-Mar-2018 05:56:58 Calib Date: 01-Mar-2018 20:27:10
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\S0301050.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK021

First Level Reviewer: oravecj Date: 02-Mar-2018 05:01:10

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 1-Bromo-2-nitrobenzene							
1	2.594	2.595	-0.001	169529331H	0.1000	0.1000	
2	2.836	2.836	0.000	104651645H	0.1000	0.1000	
5 PCB-1242							
1	3.489	3.488	0.001	315128H	0.0100	0.0127	
1	4.299	4.297	0.002	518133H	0.0100	0.0102	
1	4.444	4.442	0.002	321551H	0.0100	0.0108	
1	4.928	4.925	0.003	301995H	0.0100	0.0117	
1	5.495	5.493	0.002	199621H	0.0100	0.009110	
		Average of Peak Amounts =				0.0109	
2	4.702	4.701	0.001	203546H	0.0100	0.0135	
2	5.339	5.338	0.001	279376H	0.0100	0.0118	
2	5.538	5.536	0.002	173784H	0.0100	0.0128	
2	6.282	6.281	0.001	143397H	0.0100	0.0127	
2	7.033	7.031	0.002	139751H	0.0100	0.0122	
		Average of Peak Amounts =				0.0126	
						RPD = 14.38	
11 PCB-1268							
1	9.573	9.572	0.001	1618035H	0.0100	0.0114	
1	9.637	9.635	0.002	1361214H	0.0100	0.0111	
1	9.946	9.946	0.000	1349551H	0.0100	0.0114	
1	10.912	10.912	0.000	4473132H	0.0100	0.0112	
		Average of Peak Amounts =				0.0113	
2	11.214	11.213	0.001	878468H	0.0100	0.0112	
2	11.279	11.279	0.000	733039H	0.0100	0.0111	
2	11.633	11.632	0.001	701577H	0.0100	0.0111	
2	12.446	12.447	-0.001	2268296H	0.0100	0.0106	
		Average of Peak Amounts =				0.0110	
						RPD = 2.34	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
* 46 PCB-205 (IS)							
1	10.572	10.573	-0.001	117884221H	0.1000	0.1000	
2	12.063	12.064	-0.002	63264676H	0.1000	0.1000	

Reagents:

GCAR4268CALL1_00008	Amount Added:	1.00	Units: mL	
PCBINT_00007	Amount Added:	0.01	Units: mL	Run Reagent

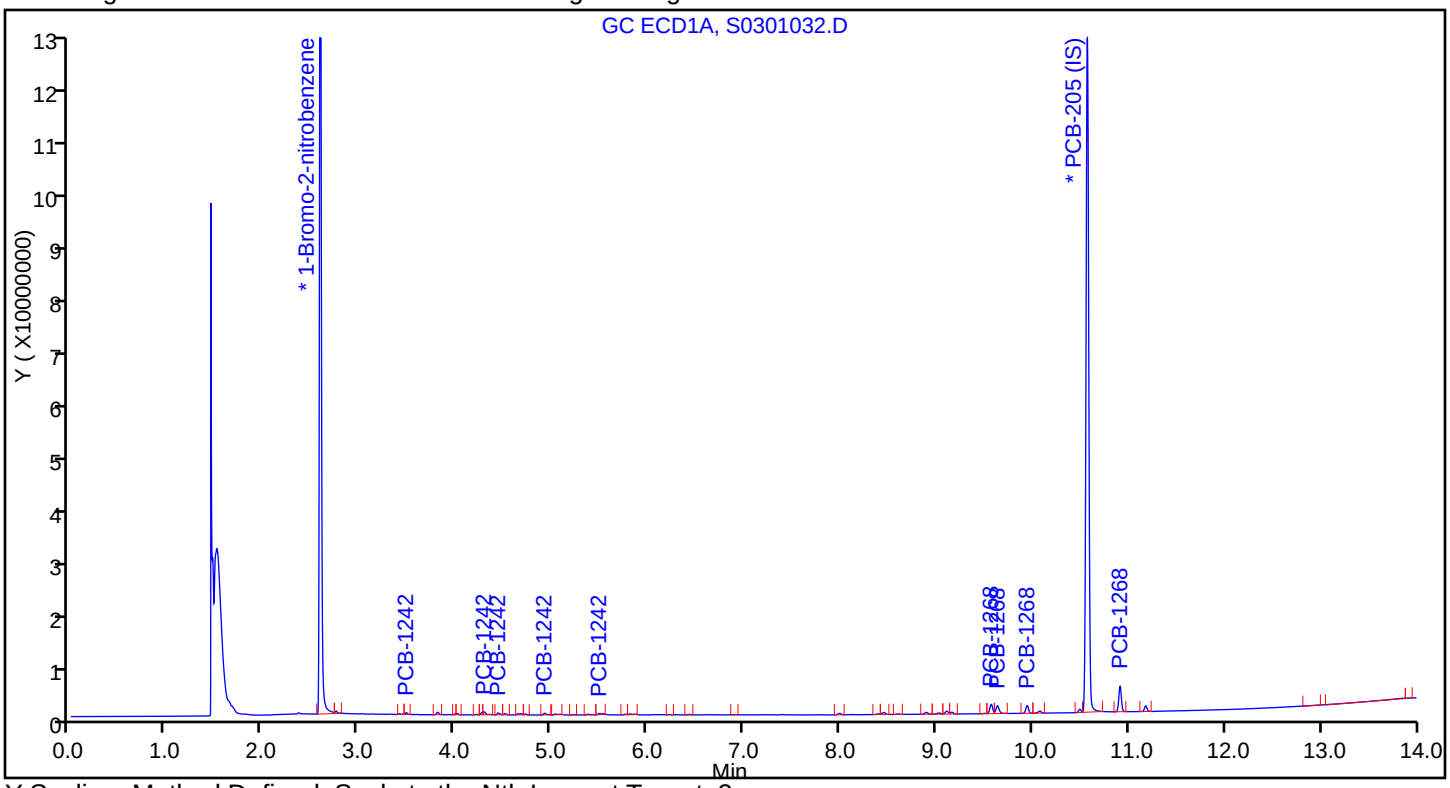
Report Date: 02-Mar-2018 05:56:59 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Pittsburgh

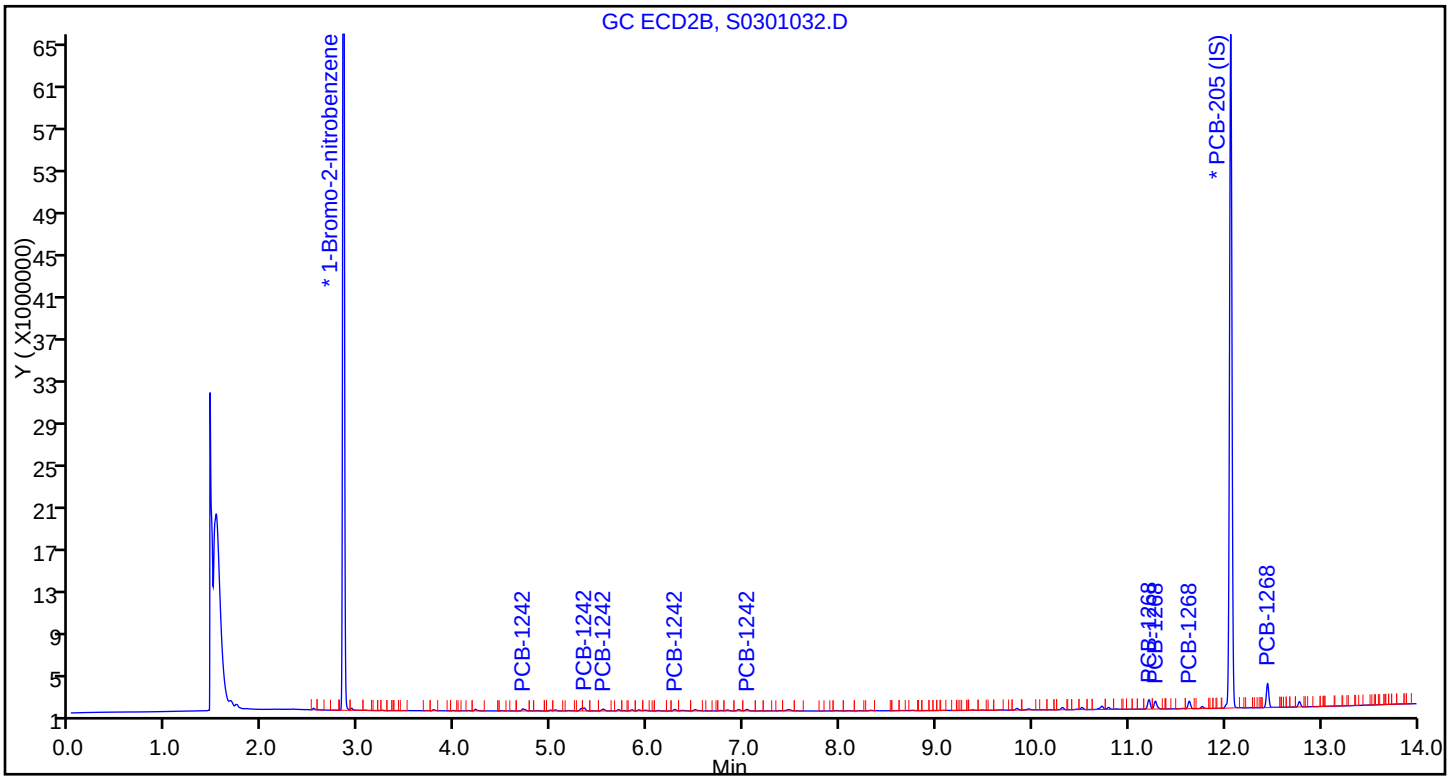
Data File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\S0301032.D

Injection Date:	01-Mar-2018 14:47:26	Instrument ID:	CHGC10		
Lims ID:	IC				
Client ID:					
Operator ID:		ALS Bottle#:	8	Worklist Smp#:	8
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	IS PCB_CHGC10DUAL	Limit Group:	GCS 8082A ICAL with IS		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\S0301033.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 01-Mar-2018 15:06:17 ALS Bottle#: 9 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0020692-009
Operator ID: Instrument ID: CHGC10
Sublist: chrom-IS PCB_CHGC10DUAL*sub23

Method: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\IS PCB_CHGC10DUAL.m
Limit Group: GCS 8082A ICAL with IS
Last Update: 02-Mar-2018 05:56:53 Calib Date: 01-Mar-2018 20:27:10
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\S0301050.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK021

First Level Reviewer: oravecj Date: 02-Mar-2018 05:02:53

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 1-Bromo-2-nitrobenzene							
1	2.595	2.595	0.000	163841980H	0.1000	0.1000	
2	2.837	2.836	0.001	101876766H	0.1000	0.1000	
5 PCB-1242							
1	3.489	3.488	0.001	2588849H	0.1000	0.1081	
1	4.298	4.297	0.001	5080577H	0.1000	0.1034	
1	4.444	4.442	0.002	3034513H	0.1000	0.1058	
1	4.926	4.925	0.001	2655082H	0.1000	0.1069	
1	5.494	5.493	0.001	2152519H	0.1000	0.1016	
		Average of Peak Amounts =				0.1052	
2	4.702	4.701	0.001	1593272H	0.1000	0.1088	
2	5.338	5.338	0.000	2398493H	0.1000	0.1042	
2	5.537	5.536	0.001	1409199H	0.1000	0.1064	
2	6.282	6.281	0.001	1173137H	0.1000	0.1070	
2	7.032	7.031	0.001	1168966H	0.1000	0.1048	
		Average of Peak Amounts =				0.1063	
						RPD = 1.04	
11 PCB-1268							
1	9.572	9.572	0.000	13686748H	0.1000	0.1062	
1	9.637	9.635	0.002	11646234H	0.1000	0.1049	
1	9.945	9.946	-0.001	11495960H	0.1000	0.1067	
1	10.912	10.912	0.000	38965764H	0.1000	0.1074	
		Average of Peak Amounts =				0.1063	
2	11.213	11.213	0.000	7249753H	0.1000	0.1021	
2	11.280	11.279	0.001	6079716H	0.1000	0.1017	
2	11.632	11.632	0.000	5801996H	0.1000	0.1016	
2	12.447	12.447	0.000	19544457H	0.1000	0.1014	
		Average of Peak Amounts =				0.1017	
						RPD = 4.47	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
* 46 PCB-205 (IS)							
1	10.572	10.573	0.000	106987576H	0.1000	0.1000	
2	12.063	12.064	-0.001	57249627H	0.1000	0.1000	

Reagents:

GCAR4268CALL2_00007 Amount Added: 1.00 Units: mL
PCBINT_00007 Amount Added: 0.01 Units: mL Run Reagent

Report Date: 02-Mar-2018 05:56:54 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\S0301033.D

Injection Date: 01-Mar-2018 15:06:17 Instrument ID: CHGC10

Lims ID: IC

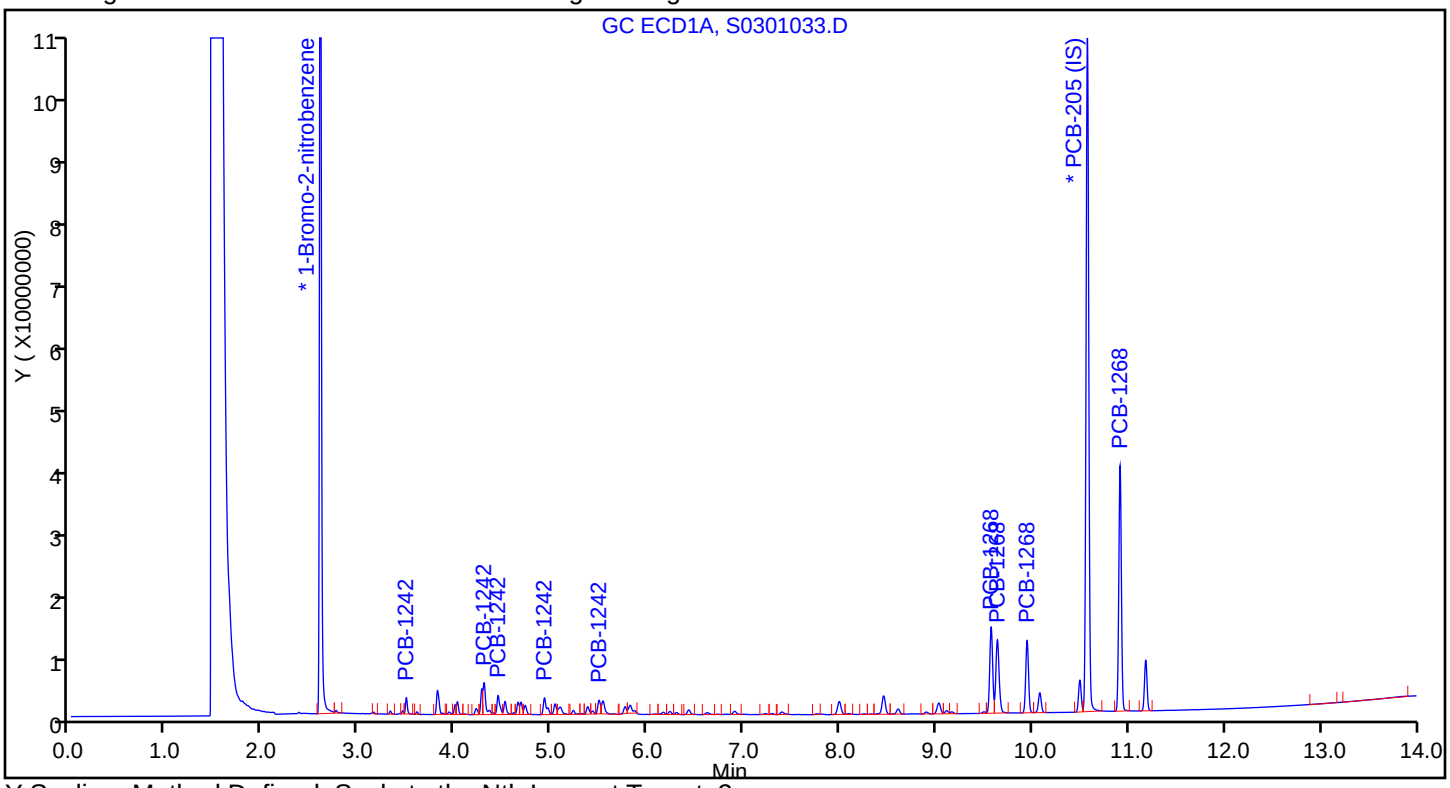
Client ID:

Operator ID: ALS Bottle#: 9 Worklist Smp#: 9

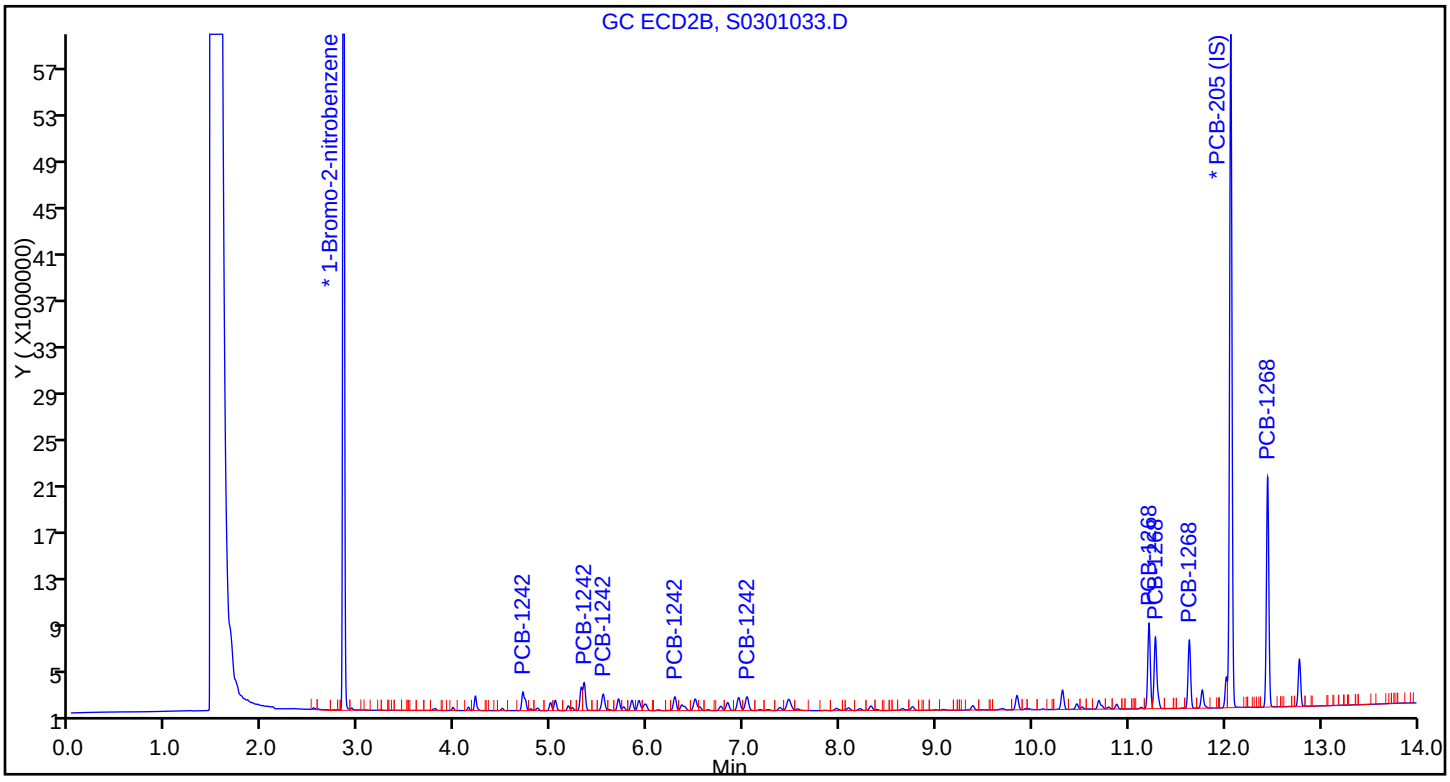
Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: IS PCB_CHGC10DUAL Limit Group: GCS 8082A ICAL with IS

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\S0301034.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 01-Mar-2018 15:25:09 ALS Bottle#: 10 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0020692-010
Operator ID: Instrument ID: CHGC10
Sublist: chrom-IS PCB_CHGC10DUAL*sub23

Method: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\IS PCB_CHGC10DUAL.m
Limit Group: GCS 8082A ICAL with IS
Last Update: 02-Mar-2018 05:56:50 Calib Date: 01-Mar-2018 20:27:10
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\S0301050.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK021

First Level Reviewer: oravecj Date: 02-Mar-2018 05:03:09

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 1-Bromo-2-nitrobenzene							
1	2.596	2.595	0.000	167516202H	0.1000	0.1000	
2	2.836	2.836	0.000	104296544H	0.1000	0.1000	
5 PCB-1242							
1	3.489	3.488	0.001	6151114H	0.2500	0.2512	
1	4.298	4.297	0.001	13011699H	0.2500	0.2590	
1	4.444	4.442	0.002	7589019H	0.2500	0.2587	
1	4.926	4.925	0.001	6489818H	0.2500	0.2554	
1	5.493	5.493	0.000	5654564H	0.2500	0.2611	
		Average of Peak Amounts =				0.2571	
2	4.702	4.701	0.001	3649418H	0.2500	0.2434	
2	5.338	5.338	0.000	5743529H	0.2500	0.2437	
2	5.537	5.536	0.001	3305791H	0.2500	0.2438	
2	6.281	6.281	0.000	2779434H	0.2500	0.2477	
2	7.031	7.031	0.000	2835827H	0.2500	0.2484	
		Average of Peak Amounts =				0.2454	
						RPD = 4.65	
11 PCB-1268							
1	9.571	9.572	-0.001	36474891H	0.2500	0.2520	
1	9.635	9.635	0.000	31617057H	0.2500	0.2536	
1	9.945	9.946	-0.001	30228757H	0.2500	0.2498	
1	10.911	10.912	-0.001	102470912H	0.2500	0.2515	
		Average of Peak Amounts =				0.2517	
2	11.213	11.213	0.000	19307524H	0.2500	0.2454	
2	11.279	11.279	0.000	16142056H	0.2500	0.2438	
2	11.632	11.632	0.000	15559439H	0.2500	0.2460	
2	12.446	12.447	-0.001	52389801H	0.2500	0.2453	
		Average of Peak Amounts =				0.2451	
						RPD = 2.67	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
* 46 PCB-205 (IS)							
1	10.571	10.573	-0.001	120177137H	0.1000	0.1000	
2	12.063	12.064	-0.001	63415183H	0.1000	0.1000	

Reagents:

GCAR4268CALL3_00007 Amount Added: 1.00 Units: mL
PCBINT_00007 Amount Added: 0.01 Units: mL Run Reagent

Report Date: 02-Mar-2018 05:56:51 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\S0301034.D

Injection Date: 01-Mar-2018 15:25:09 Instrument ID: CHGC10

Lims ID: IC

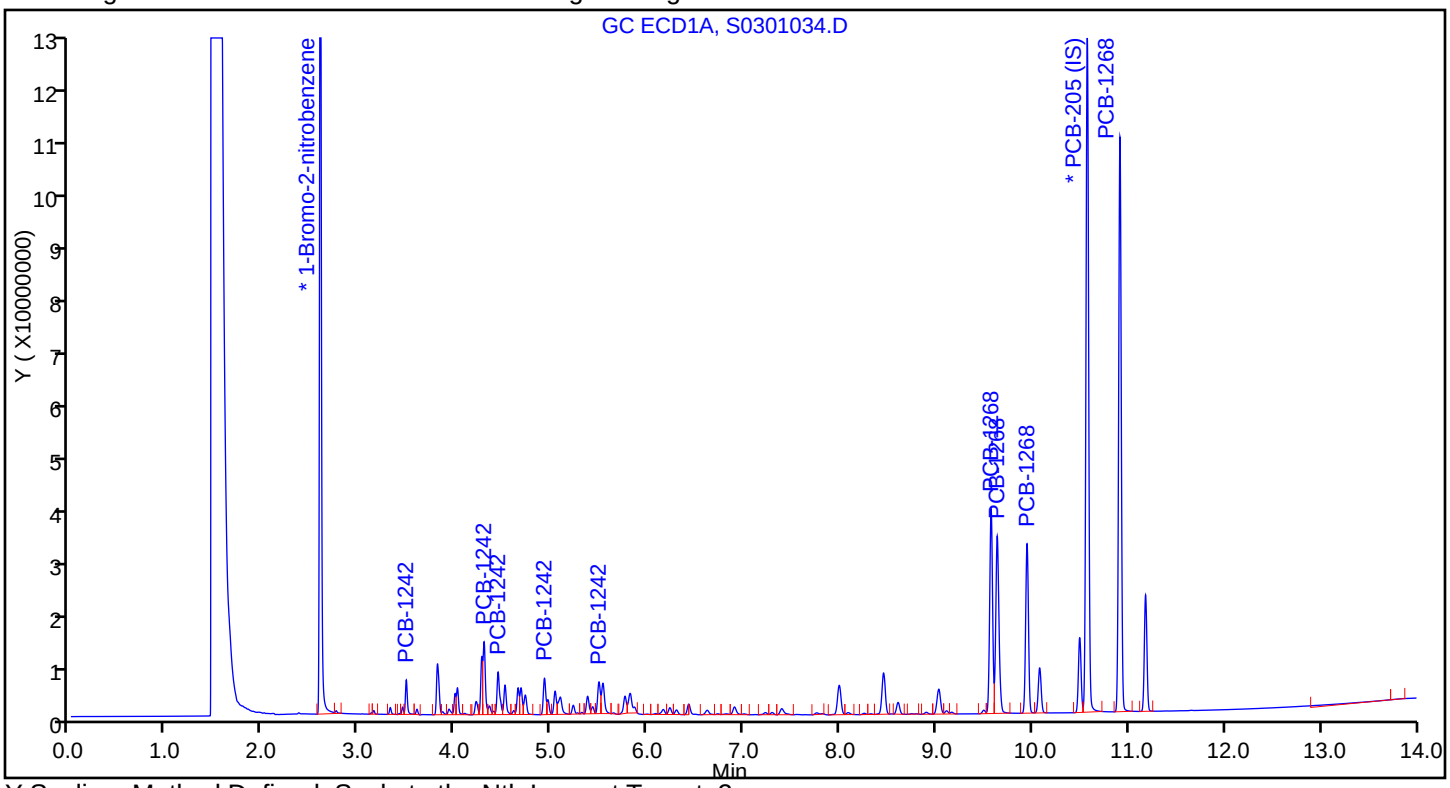
Client ID:

Operator ID: ALS Bottle#: 10 Worklist Smp#: 10

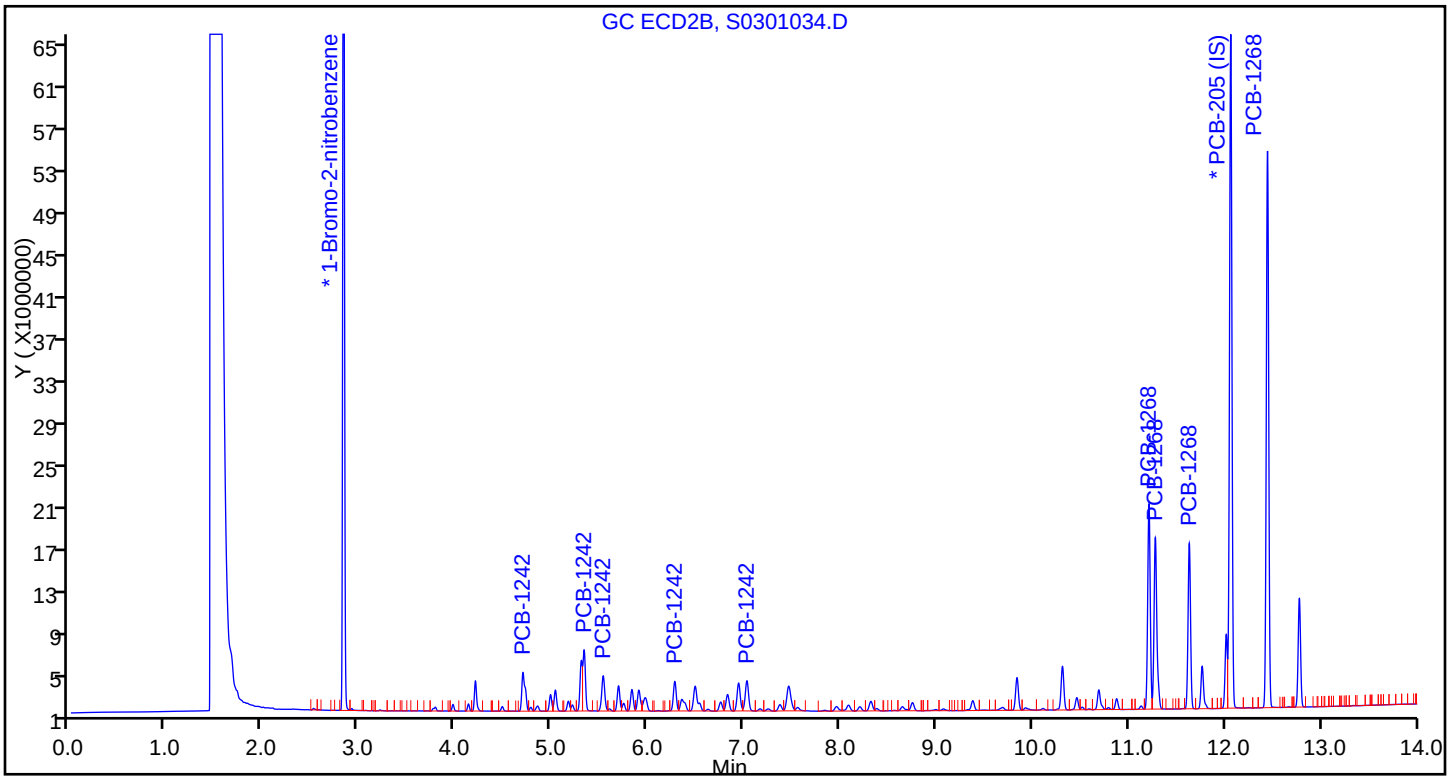
Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: IS PCB_CHGC10DUAL Limit Group: GCS 8082A ICAL with IS

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\S0301035.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 01-Mar-2018 15:44:01 ALS Bottle#: 11 Worklist Smp#: 11
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0020692-011
Operator ID: Instrument ID: CHGC10
Sublist: chrom-IS PCB_CHGC10DUAL*sub23

Method: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\IS PCB_CHGC10DUAL.m
Limit Group: GCS 8082A ICAL with IS
Last Update: 02-Mar-2018 05:56:47 Calib Date: 01-Mar-2018 20:27:10
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\S0301050.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK021

First Level Reviewer: oravecj Date: 02-Mar-2018 05:03:20

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 1-Bromo-2-nitrobenzene							
1	2.595	2.595	0.000	166158240H	0.1000	0.1000	
2	2.836	2.836	0.000	102420629H	0.1000	0.1000	
5 PCB-1242							
1	3.488	3.488	0.000	11488586H	0.5000	0.4731	
1	4.297	4.297	0.000	24738575H	0.5000	0.4964	
1	4.442	4.442	0.000	13947450H	0.5000	0.4794	
1	4.925	4.925	0.000	11946937H	0.5000	0.4741	
1	5.493	5.493	0.000	10575044H	0.5000	0.4924	
		Average of Peak Amounts =				0.4831	
2	4.701	4.701	0.000	6706349H	0.5000	0.4555	
2	5.338	5.338	0.000	10838040H	0.5000	0.4683	
2	5.536	5.536	0.000	6093423H	0.5000	0.4577	
2	6.281	6.281	0.000	4986226H	0.5000	0.4525	
2	7.031	7.031	0.000	5043400H	0.5000	0.4499	
		Average of Peak Amounts =				0.4568	
						RPD = 5.59	
11 PCB-1268							
1	9.572	9.572	0.000	59127306H	0.5000	0.4874	
1	9.635	9.635	0.000	51468275H	0.5000	0.4924	
1	9.946	9.946	0.000	48969891H	0.5000	0.4827	
1	10.912	10.912	0.000	165909945H	0.5000	0.4858	
		Average of Peak Amounts =				0.4871	
2	11.213	11.213	0.000	32420878H	0.5000	0.4928	
2	11.279	11.279	0.000	27363627H	0.5000	0.4941	
2	11.632	11.632	0.000	25635499H	0.5000	0.4846	
2	12.447	12.447	0.000	86424485H	0.5000	0.4838	
		Average of Peak Amounts =				0.4888	
						RPD = 0.36	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
* 46 PCB-205 (IS)							
1	10.572	10.573	0.000	100744286H	0.1000	0.1000	
2	12.063	12.064	-0.001	53030819H	0.1000	0.1000	

Reagents:

GCAR4268CALL4_00011	Amount Added:	1.00	Units: mL	
PCBINT_00007	Amount Added:	0.01	Units: mL	Run Reagent

Report Date: 02-Mar-2018 05:56:49 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\S0301035.D

Injection Date: 01-Mar-2018 15:44:01 Instrument ID: CHGC10

Lims ID: IC

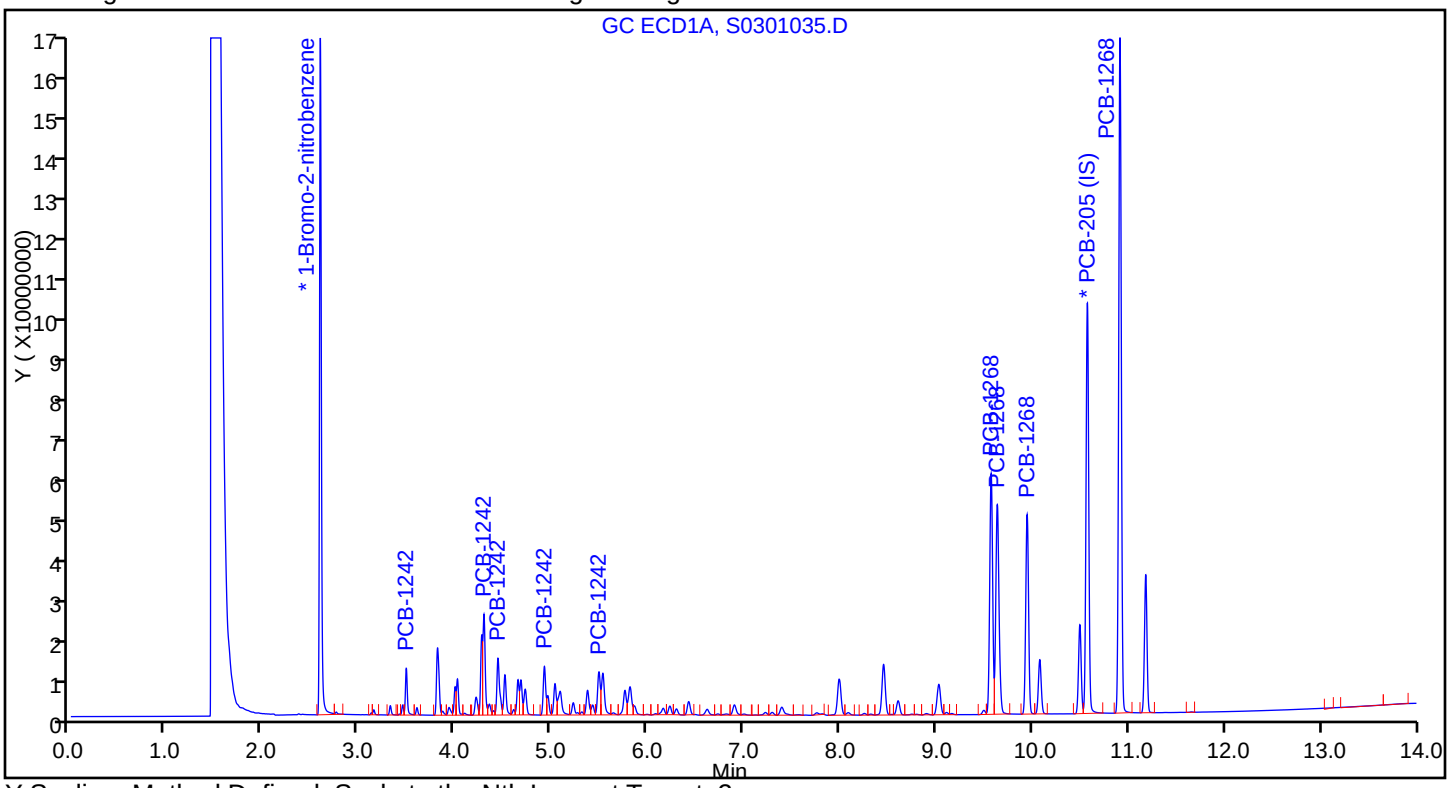
Client ID:

Operator ID: ALS Bottle#: 11 Worklist Smp#: 11

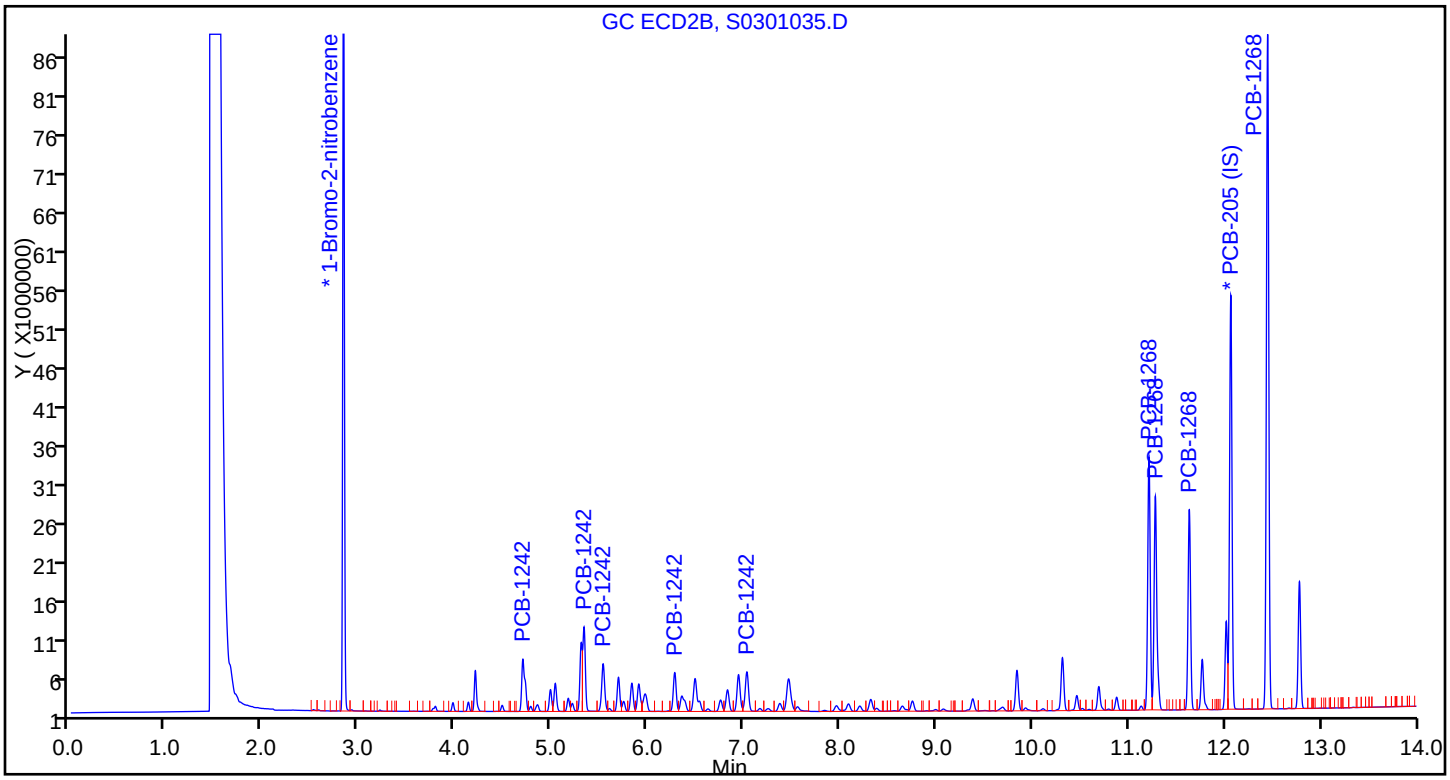
Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: IS PCB_CHGC10DUAL Limit Group: GCS 8082A ICAL with IS

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\S0301036.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 01-Mar-2018 16:02:55 ALS Bottle#: 12 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0020692-012
Operator ID: Instrument ID: CHGC10
Sublist: chrom-IS PCB_CHGC10DUAL*sub23

Method: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\IS PCB_CHGC10DUAL.m
Limit Group: GCS 8082A ICAL with IS
Last Update: 02-Mar-2018 05:56:45 Calib Date: 01-Mar-2018 20:27:10
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\S0301050.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK021

First Level Reviewer: oravecj Date: 02-Mar-2018 05:03:30

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 1-Bromo-2-nitrobenzene							
1	2.595	2.595	0.000	166366417H	0.1000	0.1000	
2	2.837	2.836	0.001	103596513H	0.1000	0.1000	
5 PCB-1242							
1	3.489	3.488	0.001	22037993H	1.00	0.9063	
1	4.297	4.297	0.000	49805999H	1.00	1.00	
1	4.442	4.442	0.000	28390162H	1.00	0.9745	
1	4.925	4.925	0.000	23447274H	1.00	0.9293	
1	5.492	5.493	-0.001	21884635H	1.00	1.02	
		Average of Peak Amounts =				0.9652	
2	4.702	4.701	0.001	13040169H	1.00	0.8756	
2	5.337	5.338	-0.001	22129818H	1.00	0.9454	
2	5.536	5.536	0.000	12083669H	1.00	0.8974	
2	6.282	6.281	0.001	9816613H	1.00	0.8807	
2	7.032	7.031	0.001	10266580H	1.00	0.9054	
		Average of Peak Amounts =				0.9009	
						RPD = 6.89	
11 PCB-1268							
1	9.572	9.572	0.000	122648527H	1.00	0.9417	
1	9.636	9.635	0.001	106386230H	1.00	0.9480	
1	9.946	9.946	0.000	103040414H	1.00	0.9462	
1	10.912	10.912	0.000	350743922H	1.00	0.9567	
		Average of Peak Amounts =				0.9481	
2	11.214	11.213	0.001	67698569H	1.00	0.9600	
2	11.281	11.279	0.002	56815338H	1.00	0.9571	
2	11.634	11.632	0.002	55130623H	1.00	0.9722	
2	12.448	12.447	0.001	189305702H	1.00	0.9887	
		Average of Peak Amounts =				0.9695	
						RPD = 2.23	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
* 46 PCB-205 (IS)							
1	10.572	10.573	0.000	108155861H	0.1000	0.1000	
2	12.066	12.064	0.001	56845183H	0.1000	0.1000	

Reagents:

GCAR4268CALL5_00007 Amount Added: 1.00 Units: mL
PCBINT_00007 Amount Added: 0.01 Units: mL Run Reagent

Report Date: 02-Mar-2018 05:56:46 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\S0301036.D

Injection Date: 01-Mar-2018 16:02:55 Instrument ID: CHGC10

Lims ID: IC

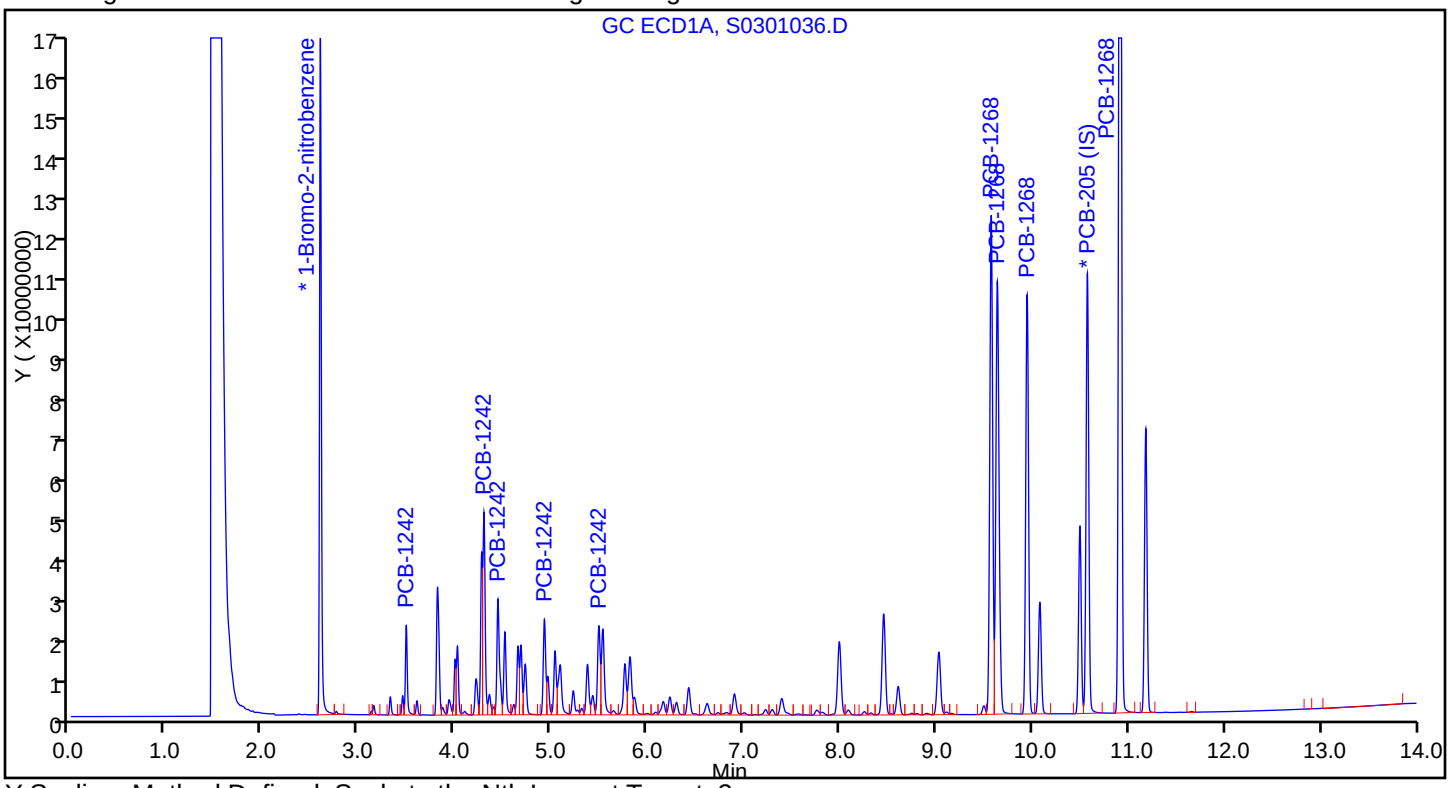
Client ID:

Operator ID: ALS Bottle#: 12 Worklist Smp#: 12

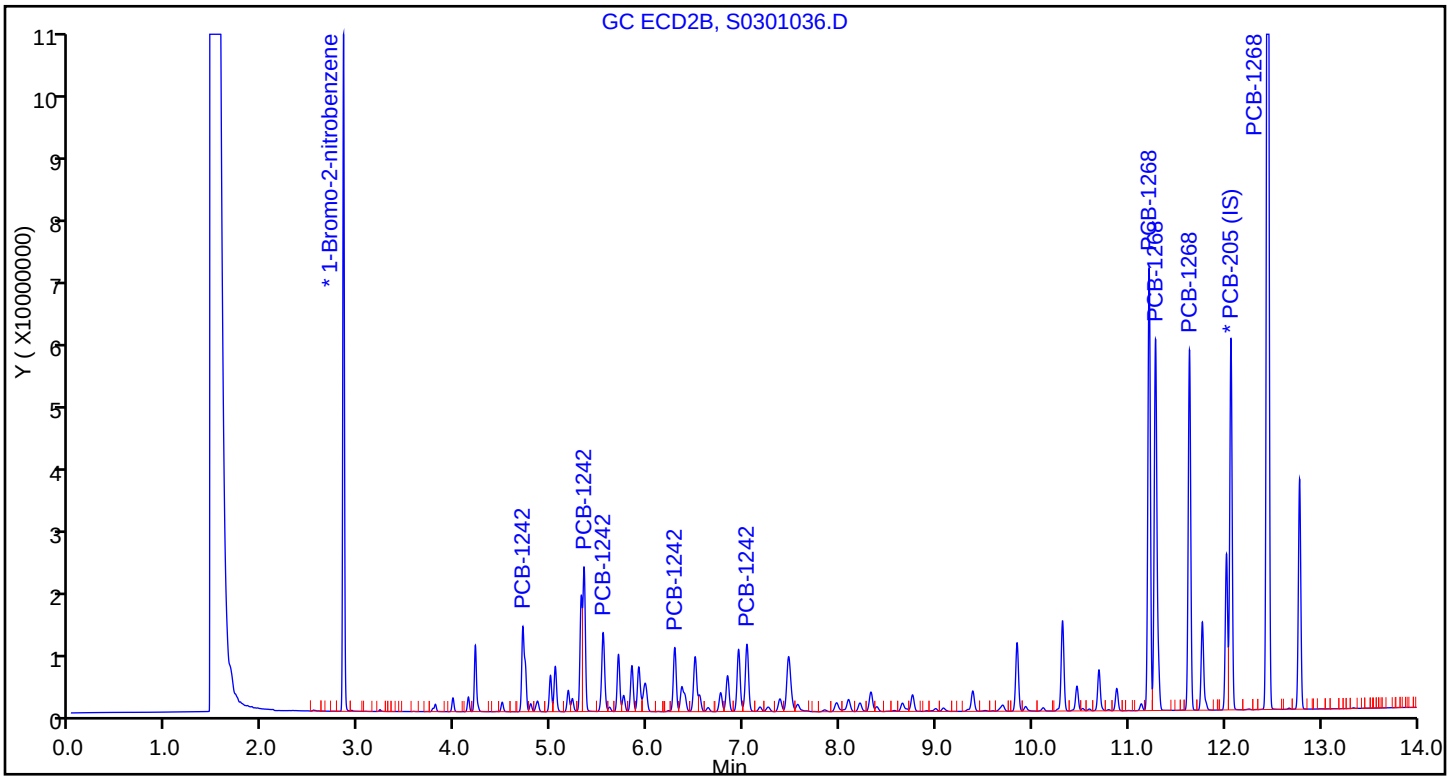
Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: IS PCB_CHGC10DUAL Limit Group: GCS 8082A ICAL with IS

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\S0301037.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 01-Mar-2018 16:21:48 ALS Bottle#: 13 Worklist Smp#: 13
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0020692-013
Operator ID: Instrument ID: CHGC10
Sublist: chrom-IS PCB_CHGC10DUAL*sub23

Method: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\IS PCB_CHGC10DUAL.m
Limit Group: GCS 8082A ICAL with IS
Last Update: 02-Mar-2018 05:56:42 Calib Date: 01-Mar-2018 20:27:10
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\S0301050.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK021

First Level Reviewer: oravecj Date: 02-Mar-2018 05:03:41

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 1-Bromo-2-nitrobenzene							
1	2.595	2.595	0.000	174846463H	0.1000	0.1000	
2	2.836	2.836	0.000	107890568H	0.1000	0.1000	
5 PCB-1242							
1	3.487	3.488	-0.001	80715446H	4.00	3.16	
1	4.294	4.297	-0.003	193014326H	4.00	3.68	
1	4.440	4.442	-0.002	109127889H	4.00	3.56	
1	4.924	4.925	-0.001	90975092H	4.00	3.43	
1	5.489	5.493	-0.004	92719935H	4.00	4.10	
		Average of Peak Amounts =				3.59	
2	4.701	4.701	0.000	49576572H	4.00	3.20	
2	5.337	5.338	-0.001	89697586H	4.00	3.68	
2	5.536	5.536	0.000	48807697H	4.00	3.48	
2	6.281	6.281	0.000	40852092H	4.00	3.52	
2	7.032	7.031	0.001	44054289H	4.00	3.73	
		Average of Peak Amounts =				3.52	
						RPD = 1.86	
11 PCB-1268							
1	9.570	9.572	-0.002	526191857H	4.00	3.49	
1	9.635	9.635	0.000	462569514H	4.00	3.56	
1	9.944	9.946	-0.002	446025094H	4.00	3.54	
1	10.912	10.912	0.000	1478958438H	4.00	3.49	
		Average of Peak Amounts =				3.52	
2	11.213	11.213	0.000	307184723H	4.00	3.73	
2	11.280	11.279	0.001	264230385H	4.00	3.81	
2	11.633	11.632	0.001	250943988H	4.00	3.79	
2	12.447	12.447	0.000	880704201H	4.00	3.94	
		Average of Peak Amounts =				3.82	
						RPD = 8.09	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
* 46 PCB-205 (IS)							
1	10.572	10.573	-0.001	125121027H	0.1000	0.1000	
2	12.064	12.064	0.000	66384258H	0.1000	0.1000	

Reagents:

GCAR4268CALL7_00007 Amount Added: 1.00 Units: mL
PCBINT_00007 Amount Added: 0.01 Units: mL Run Reagent

Report Date: 02-Mar-2018 05:56:44 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\S0301037.D

Injection Date: 01-Mar-2018 16:21:48 Instrument ID: CHGC10

Lims ID: IC

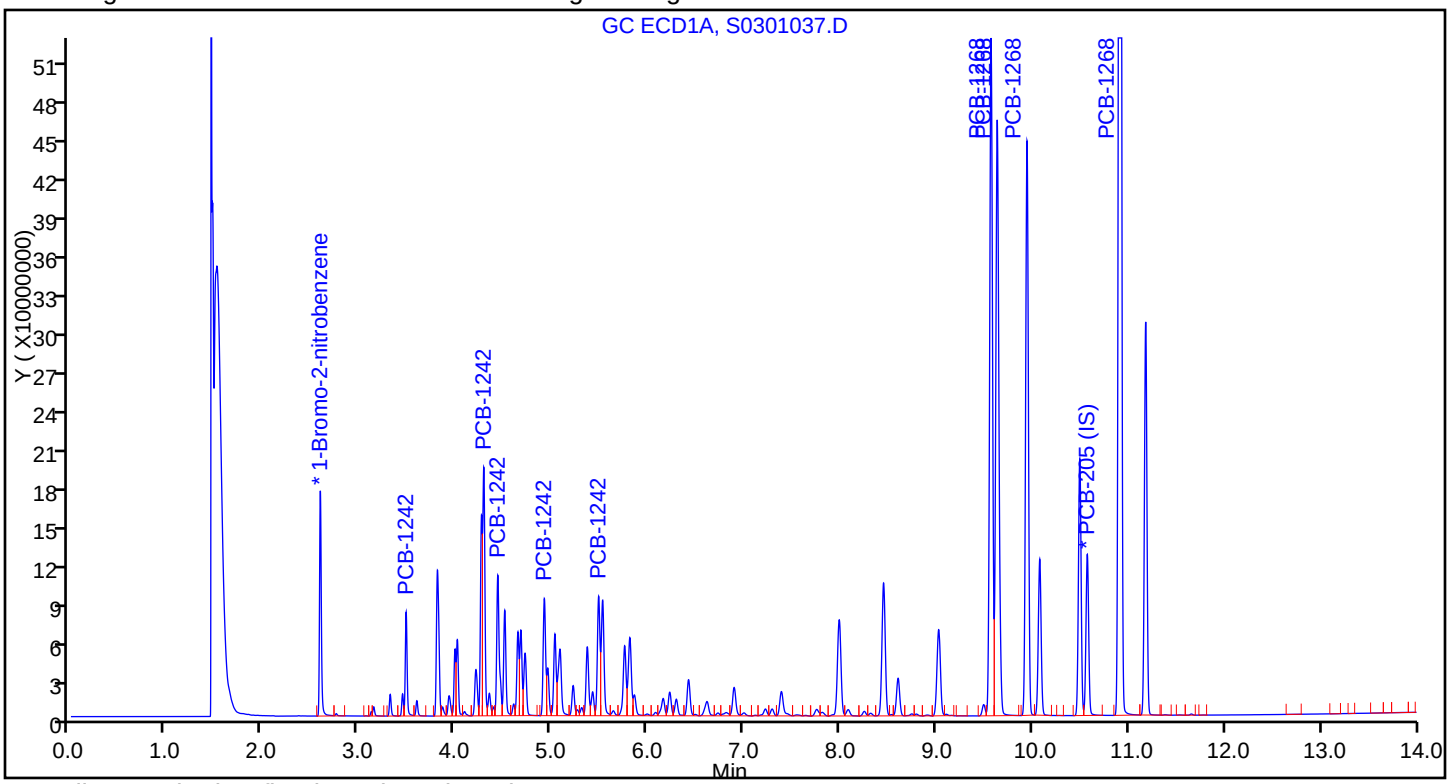
Client ID:

Operator ID: ALS Bottle#: 13 Worklist Smp#: 13

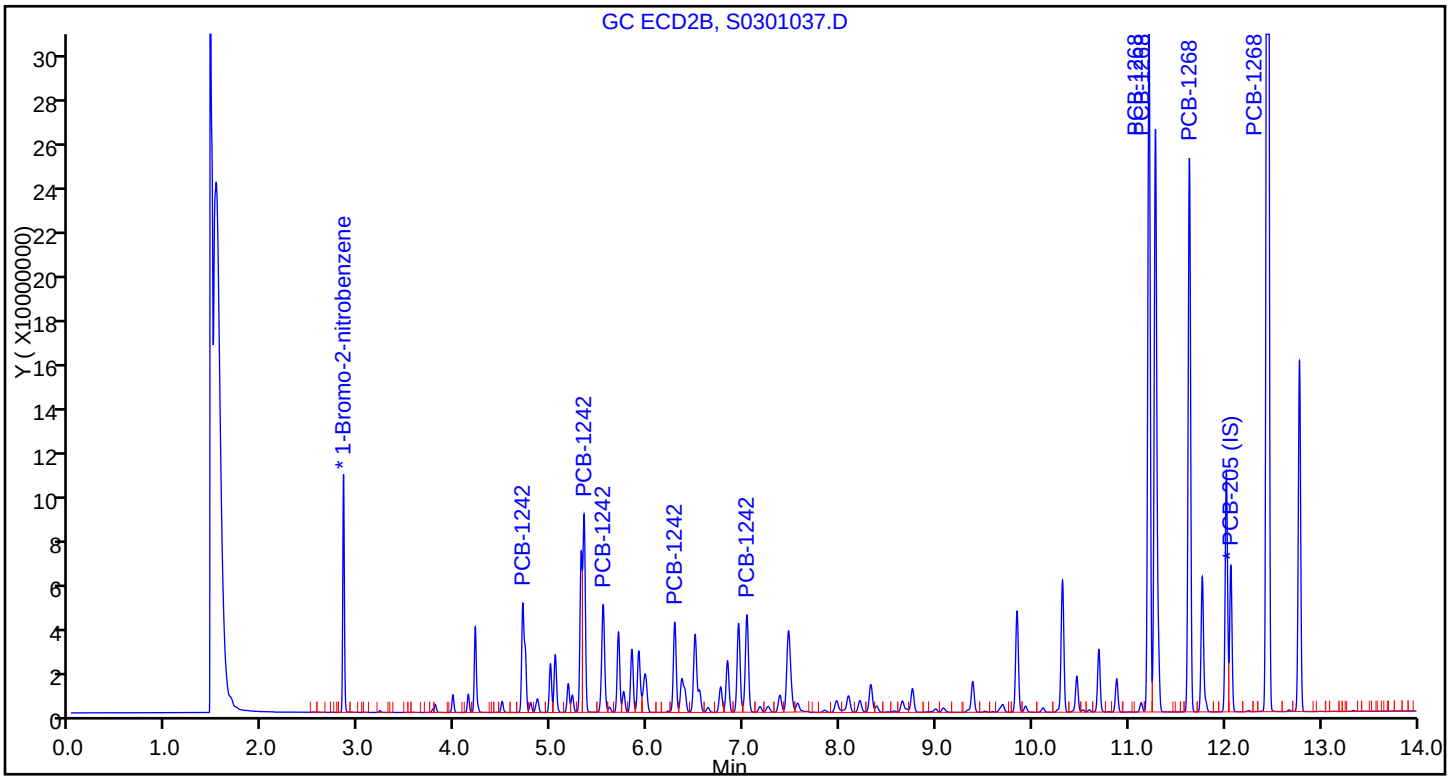
Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: IS PCB_CHGC10DUAL Limit Group: GCS 8082A ICAL with IS

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Pittsburgh Job No.: 180-78164-1 Analy Batch No.: 238236

SDG No.:

Instrument ID: CHGC10 GC Column: RTX-CLP2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/01/2018 14:47 Calibration End Date: 03/01/2018 16:21 Calibration ID: 37432

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 180-238236/8	S0301032.D
Level 2	IC 180-238236/9	S0301033.D
Level 3	IC 180-238236/10	S0301034.D
Level 4	IC 180-238236/11	S0301035.D
Level 5	IC 180-238236/12	S0301036.D
Level 6	IC 180-238236/13	S0301037.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
PCB-1242 Peak 1	0.0194 0.0115	0.0156	0.0140	0.0131	0.0126	Ave		0.0144				19.8		20.0			
PCB-1242 Peak 2	0.0267 0.0208	0.0235	0.0220	0.0212	0.0214	Ave		0.0226				9.9		20.0			
PCB-1242 Peak 3	0.0166 0.0113	0.0138	0.0127	0.0119	0.0117	Ave		0.0130				15.3		20.0			
PCB-1242 Peak 4	0.0137 0.0095	0.0115	0.0107	0.0097	0.0095	Ave		0.0108				15.3		20.0			
PCB-1242 Peak 5	0.0134 0.0102	0.0115	0.0109	0.0098	0.0099	Ave		0.0109				12.2		20.0			
PCB-1268 Peak 1	0.1389 0.1157	0.1266	0.1218	0.1223	0.1191	Ave		0.1241				6.5		20.0			
PCB-1268 Peak 2	0.1159 0.0995	0.1062	0.1018	0.1032	0.0999	Ave		0.1044				5.9		20.0			
PCB-1268 Peak 3	0.1109 0.0945	0.1013	0.0981	0.0967	0.0970	Ave		0.0998				5.9		20.0			
PCB-1268 Peak 4	0.3585 0.3317	0.3414	0.3305	0.3259	0.3330	Ave		0.3368				3.5		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Pittsburgh Job No.: 180-78164-1 Analy Batch No.: 238236

SDG No.:

Instrument ID: CHGC10 GC Column: RTX-CLP2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/01/2018 14:47 Calibration End Date: 03/01/2018 16:21 Calibration ID: 37432

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 180-238236/8	S0301032.D
Level 2	IC 180-238236/9	S0301033.D
Level 3	IC 180-238236/10	S0301034.D
Level 4	IC 180-238236/11	S0301035.D
Level 5	IC 180-238236/12	S0301036.D
Level 6	IC 180-238236/13	S0301037.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
PCB-1242 Peak 1	BNB	Ave	203546 49576572	1593272	3649418	6706349	13040169	0.0100 4.00	0.100	0.250	0.500	1.00
PCB-1242 Peak 2	BNB	Ave	279376 89697586	2398493	5743529	10838040	22129818	0.0100 4.00	0.100	0.250	0.500	1.00
PCB-1242 Peak 3	BNB	Ave	173784 48807697	1409199	3305791	6093423	12083669	0.0100 4.00	0.100	0.250	0.500	1.00
PCB-1242 Peak 4	BNB	Ave	143397 40852092	1173137	2779434	4986226	9816613	0.0100 4.00	0.100	0.250	0.500	1.00
PCB-1242 Peak 5	BNB	Ave	139751 44054289	1168966	2835827	5043400	10266580	0.0100 4.00	0.100	0.250	0.500	1.00
PCB-1268 Peak 1	PCB205	Ave	878468 307184723	7249753	19307524	32420878	67698569	0.0100 4.00	0.100	0.250	0.500	1.00
PCB-1268 Peak 2	PCB205	Ave	733039 264230385	6079716	16142056	27363627	56815338	0.0100 4.00	0.100	0.250	0.500	1.00
PCB-1268 Peak 3	PCB205	Ave	701577 250943988	5801996	15559439	25635499	55130623	0.0100 4.00	0.100	0.250	0.500	1.00
PCB-1268 Peak 4	PCB205	Ave	2268296 880704201	19544457	52389801	86424485	189305702	0.0100 4.00	0.100	0.250	0.500	1.00

Curve Type Legend:
Ave = Average ISTD by Height

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\S0301032.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 01-Mar-2018 14:47:26 ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0020692-008
Operator ID: Instrument ID: CHGC10
Sublist: chrom-IS PCB_CHGC10DUAL*sub23

Method: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\IS PCB_CHGC10DUAL.m
Limit Group: GCS 8082A ICAL with IS
Last Update: 02-Mar-2018 05:56:58 Calib Date: 01-Mar-2018 20:27:10
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\S0301050.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK021

First Level Reviewer: oravecj Date: 02-Mar-2018 05:01:10

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 1-Bromo-2-nitrobenzene							
1	2.594	2.595	-0.001	169529331H	0.1000	0.1000	
2	2.836	2.836	0.000	104651645H	0.1000	0.1000	
5 PCB-1242							
1	3.489	3.488	0.001	315128H	0.0100	0.0127	
1	4.299	4.297	0.002	518133H	0.0100	0.0102	
1	4.444	4.442	0.002	321551H	0.0100	0.0108	
1	4.928	4.925	0.003	301995H	0.0100	0.0117	
1	5.495	5.493	0.002	199621H	0.0100	0.009110	
		Average of Peak Amounts =				0.0109	
2	4.702	4.701	0.001	203546H	0.0100	0.0135	
2	5.339	5.338	0.001	279376H	0.0100	0.0118	
2	5.538	5.536	0.002	173784H	0.0100	0.0128	
2	6.282	6.281	0.001	143397H	0.0100	0.0127	
2	7.033	7.031	0.002	139751H	0.0100	0.0122	
		Average of Peak Amounts =				0.0126	
						RPD = 14.38	
11 PCB-1268							
1	9.573	9.572	0.001	1618035H	0.0100	0.0114	
1	9.637	9.635	0.002	1361214H	0.0100	0.0111	
1	9.946	9.946	0.000	1349551H	0.0100	0.0114	
1	10.912	10.912	0.000	4473132H	0.0100	0.0112	
		Average of Peak Amounts =				0.0113	
2	11.214	11.213	0.001	878468H	0.0100	0.0112	
2	11.279	11.279	0.000	733039H	0.0100	0.0111	
2	11.633	11.632	0.001	701577H	0.0100	0.0111	
2	12.446	12.447	-0.001	2268296H	0.0100	0.0106	
		Average of Peak Amounts =				0.0110	
						RPD = 2.34	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
* 46 PCB-205 (IS)							
1	10.572	10.573	-0.001	117884221H	0.1000	0.1000	
2	12.063	12.064	-0.002	63264676H	0.1000	0.1000	

Reagents:

GCAR4268CALL1_00008	Amount Added:	1.00	Units: mL	
PCBINT_00007	Amount Added:	0.01	Units: mL	Run Reagent

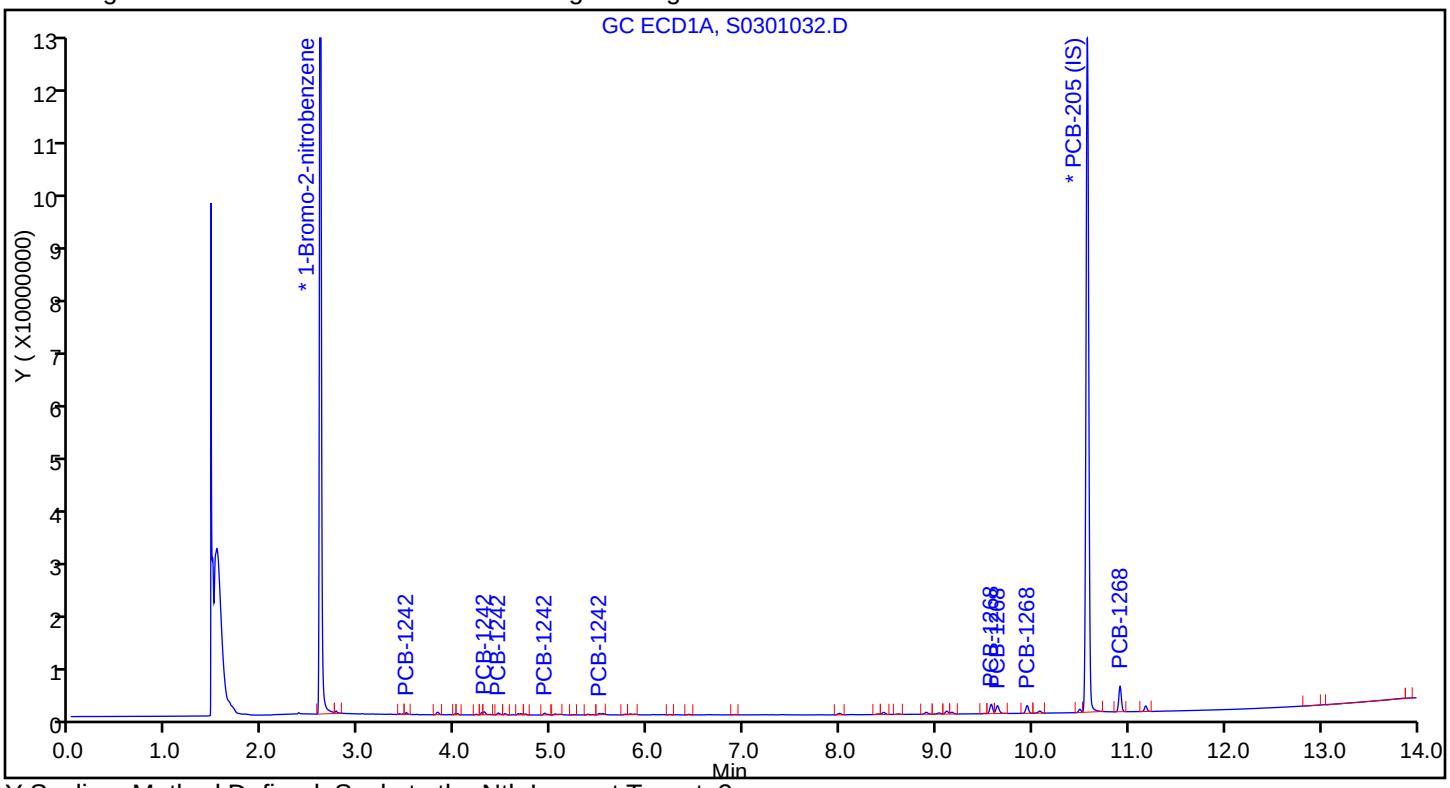
Report Date: 02-Mar-2018 05:56:59 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Pittsburgh

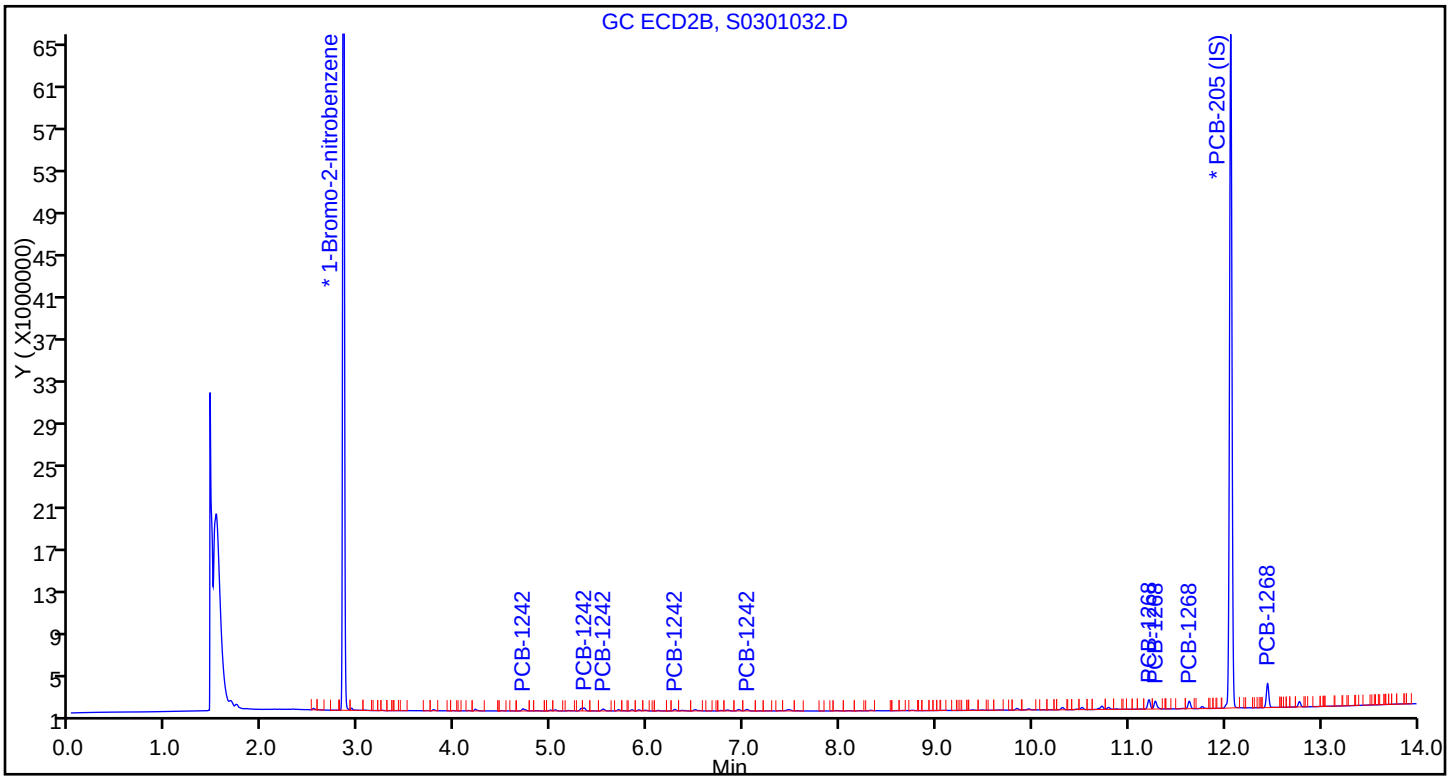
Data File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\S0301032.D

Injection Date:	01-Mar-2018 14:47:26	Instrument ID:	CHGC10		
Lims ID:	IC				
Client ID:					
Operator ID:		ALS Bottle#:	8	Worklist Smp#:	8
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	IS PCB_CHGC10DUAL	Limit Group:	GCS 8082A ICAL with IS		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\S0301033.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 01-Mar-2018 15:06:17 ALS Bottle#: 9 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0020692-009
Operator ID: Instrument ID: CHGC10
Sublist: chrom-IS PCB_CHGC10DUAL*sub23

Method: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\IS PCB_CHGC10DUAL.m
Limit Group: GCS 8082A ICAL with IS
Last Update: 02-Mar-2018 05:56:53 Calib Date: 01-Mar-2018 20:27:10
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\S0301050.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK021

First Level Reviewer: oravecj Date: 02-Mar-2018 05:02:53

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 1-Bromo-2-nitrobenzene							
1	2.595	2.595	0.000	163841980H	0.1000	0.1000	
2	2.837	2.836	0.001	101876766H	0.1000	0.1000	
5 PCB-1242							
1	3.489	3.488	0.001	2588849H	0.1000	0.1081	
1	4.298	4.297	0.001	5080577H	0.1000	0.1034	
1	4.444	4.442	0.002	3034513H	0.1000	0.1058	
1	4.926	4.925	0.001	2655082H	0.1000	0.1069	
1	5.494	5.493	0.001	2152519H	0.1000	0.1016	
		Average of Peak Amounts =				0.1052	
2	4.702	4.701	0.001	1593272H	0.1000	0.1088	
2	5.338	5.338	0.000	2398493H	0.1000	0.1042	
2	5.537	5.536	0.001	1409199H	0.1000	0.1064	
2	6.282	6.281	0.001	1173137H	0.1000	0.1070	
2	7.032	7.031	0.001	1168966H	0.1000	0.1048	
		Average of Peak Amounts =				0.1063	
						RPD = 1.04	
11 PCB-1268							
1	9.572	9.572	0.000	13686748H	0.1000	0.1062	
1	9.637	9.635	0.002	11646234H	0.1000	0.1049	
1	9.945	9.946	-0.001	11495960H	0.1000	0.1067	
1	10.912	10.912	0.000	38965764H	0.1000	0.1074	
		Average of Peak Amounts =				0.1063	
2	11.213	11.213	0.000	7249753H	0.1000	0.1021	
2	11.280	11.279	0.001	6079716H	0.1000	0.1017	
2	11.632	11.632	0.000	5801996H	0.1000	0.1016	
2	12.447	12.447	0.000	19544457H	0.1000	0.1014	
		Average of Peak Amounts =				0.1017	
						RPD = 4.47	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
* 46 PCB-205 (IS)							
1	10.572	10.573	0.000	106987576H	0.1000	0.1000	
2	12.063	12.064	-0.001	57249627H	0.1000	0.1000	

Reagents:

GCAR4268CALL2_00007 Amount Added: 1.00 Units: mL
PCBINT_00007 Amount Added: 0.01 Units: mL Run Reagent

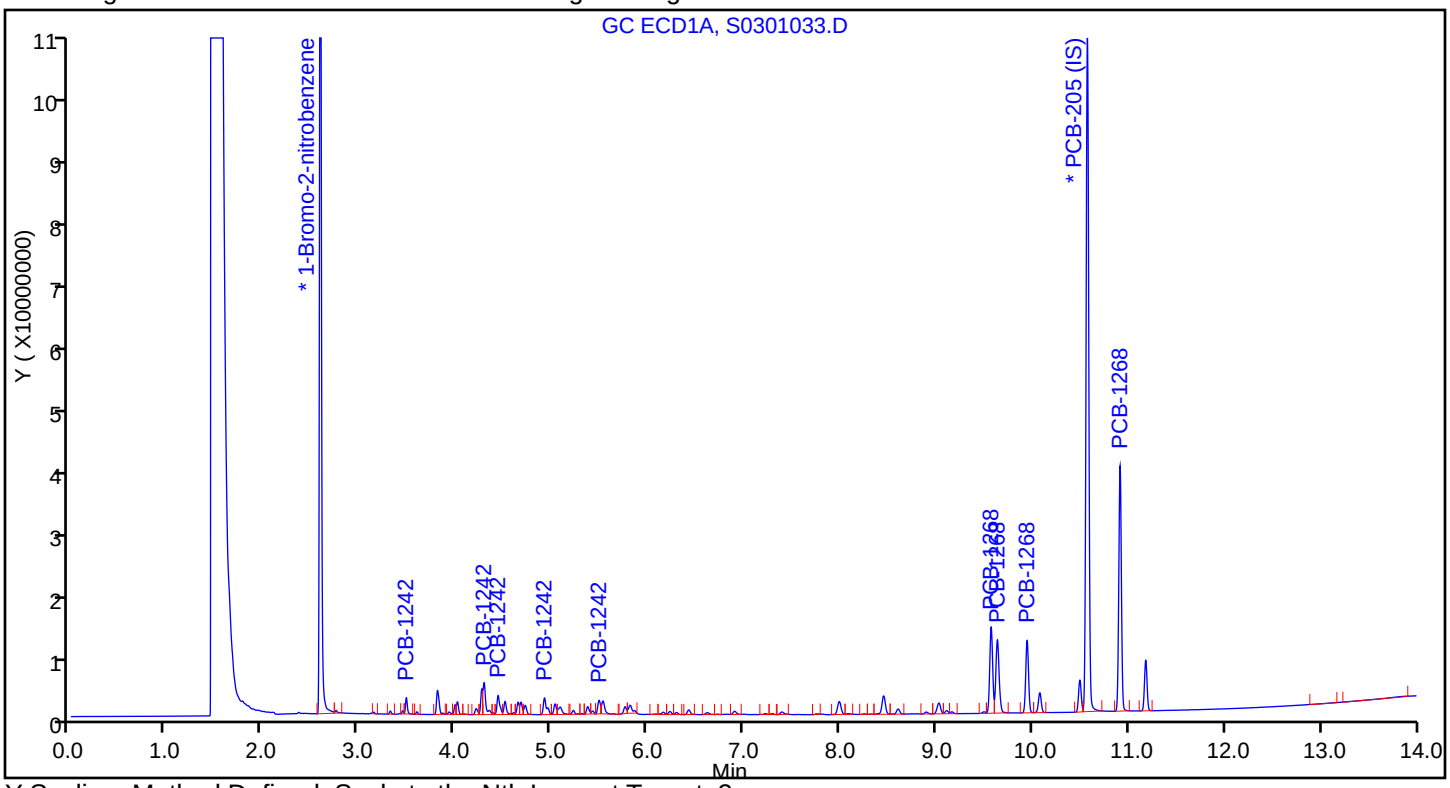
Report Date: 02-Mar-2018 05:56:54 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Pittsburgh

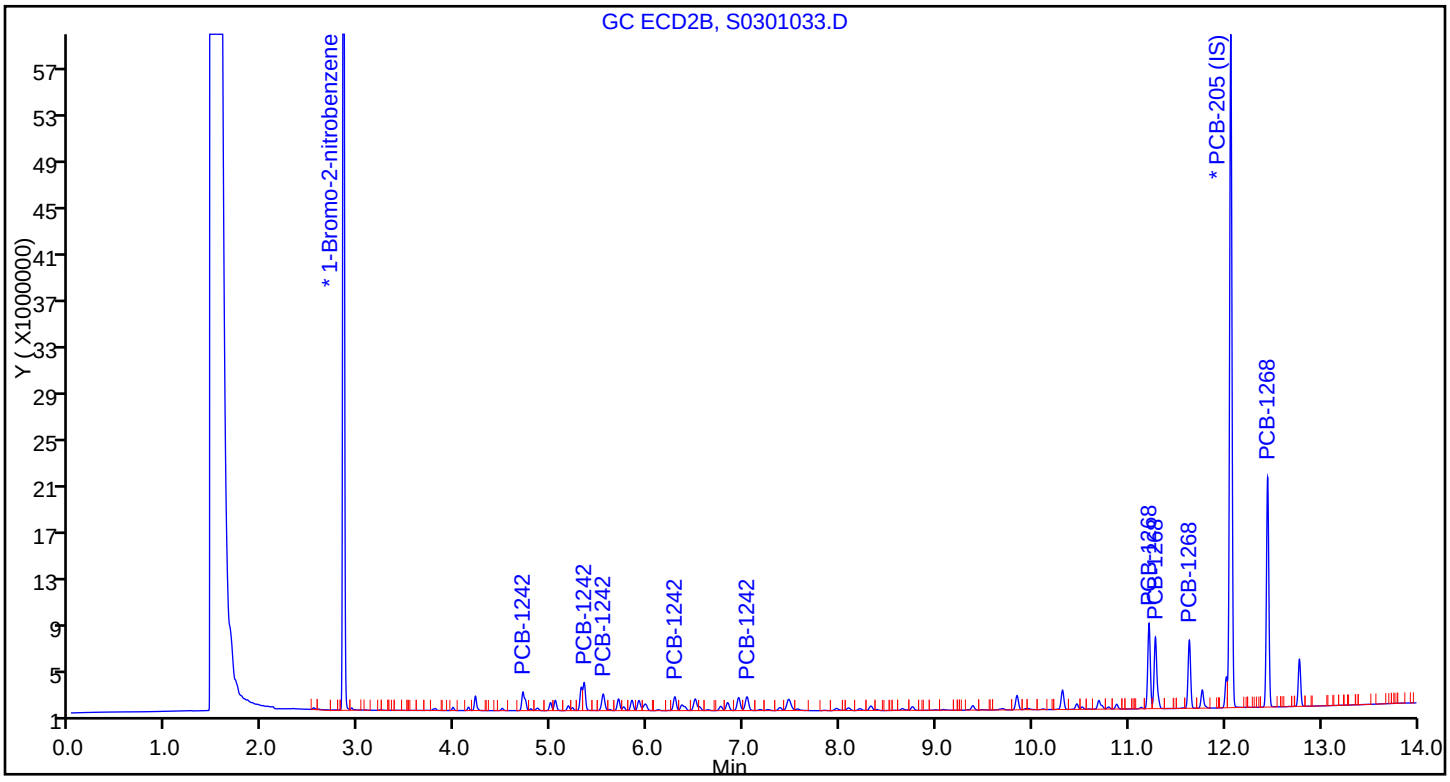
Data File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\S0301033.D

Injection Date:	01-Mar-2018 15:06:17	Instrument ID:	CHGC10		
Lims ID:	IC				
Client ID:					
Operator ID:		ALS Bottle#:	9	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	IS PCB_CHGC10DUAL	Limit Group:	GCS 8082A ICAL with IS		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\S0301034.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 01-Mar-2018 15:25:09 ALS Bottle#: 10 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0020692-010
Operator ID: Instrument ID: CHGC10
Sublist: chrom-IS PCB_CHGC10DUAL*sub23

Method: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\IS PCB_CHGC10DUAL.m
Limit Group: GCS 8082A ICAL with IS
Last Update: 02-Mar-2018 05:56:50 Calib Date: 01-Mar-2018 20:27:10
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\S0301050.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK021

First Level Reviewer: oravecj Date: 02-Mar-2018 05:03:09

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 1-Bromo-2-nitrobenzene							
1	2.596	2.595	0.000	167516202H	0.1000	0.1000	
2	2.836	2.836	0.000	104296544H	0.1000	0.1000	
5 PCB-1242							
1	3.489	3.488	0.001	6151114H	0.2500	0.2512	
1	4.298	4.297	0.001	13011699H	0.2500	0.2590	
1	4.444	4.442	0.002	7589019H	0.2500	0.2587	
1	4.926	4.925	0.001	6489818H	0.2500	0.2554	
1	5.493	5.493	0.000	5654564H	0.2500	0.2611	
		Average of Peak Amounts =				0.2571	
2	4.702	4.701	0.001	3649418H	0.2500	0.2434	
2	5.338	5.338	0.000	5743529H	0.2500	0.2437	
2	5.537	5.536	0.001	3305791H	0.2500	0.2438	
2	6.281	6.281	0.000	2779434H	0.2500	0.2477	
2	7.031	7.031	0.000	2835827H	0.2500	0.2484	
		Average of Peak Amounts =				0.2454	
						RPD = 4.65	
11 PCB-1268							
1	9.571	9.572	-0.001	36474891H	0.2500	0.2520	
1	9.635	9.635	0.000	31617057H	0.2500	0.2536	
1	9.945	9.946	-0.001	30228757H	0.2500	0.2498	
1	10.911	10.912	-0.001	102470912H	0.2500	0.2515	
		Average of Peak Amounts =				0.2517	
2	11.213	11.213	0.000	19307524H	0.2500	0.2454	
2	11.279	11.279	0.000	16142056H	0.2500	0.2438	
2	11.632	11.632	0.000	15559439H	0.2500	0.2460	
2	12.446	12.447	-0.001	52389801H	0.2500	0.2453	
		Average of Peak Amounts =				0.2451	
						RPD = 2.67	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
* 46 PCB-205 (IS)							
1	10.571	10.573	-0.001	120177137H	0.1000	0.1000	
2	12.063	12.064	-0.001	63415183H	0.1000	0.1000	

Reagents:

GCAR4268CALL3_00007 Amount Added: 1.00 Units: mL
PCBINT_00007 Amount Added: 0.01 Units: mL Run Reagent

Report Date: 02-Mar-2018 05:56:52 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\S0301034.D

Injection Date: 01-Mar-2018 15:25:09 Instrument ID: CHGC10

Lims ID: IC

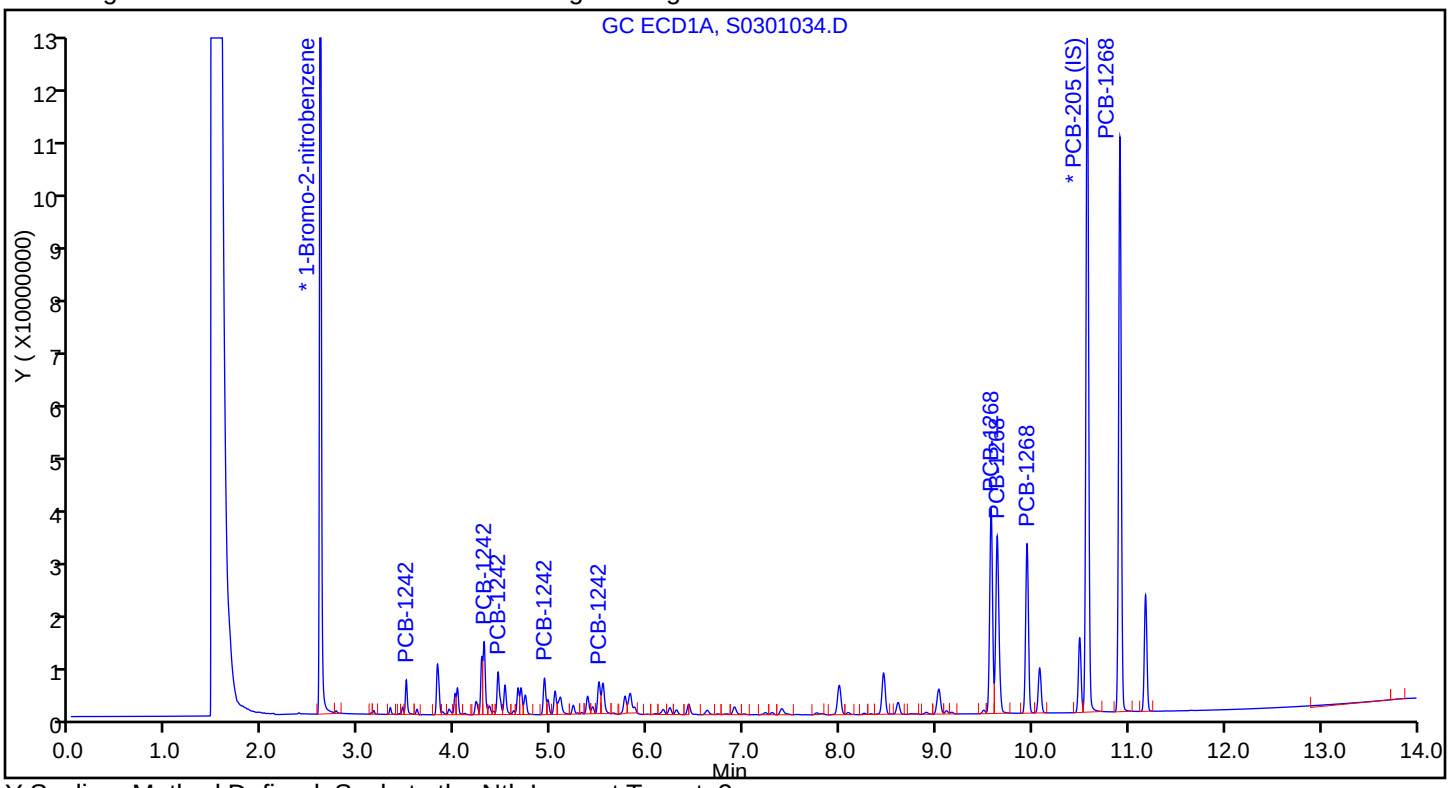
Client ID:

Operator ID: ALS Bottle#: 10 Worklist Smp#: 10

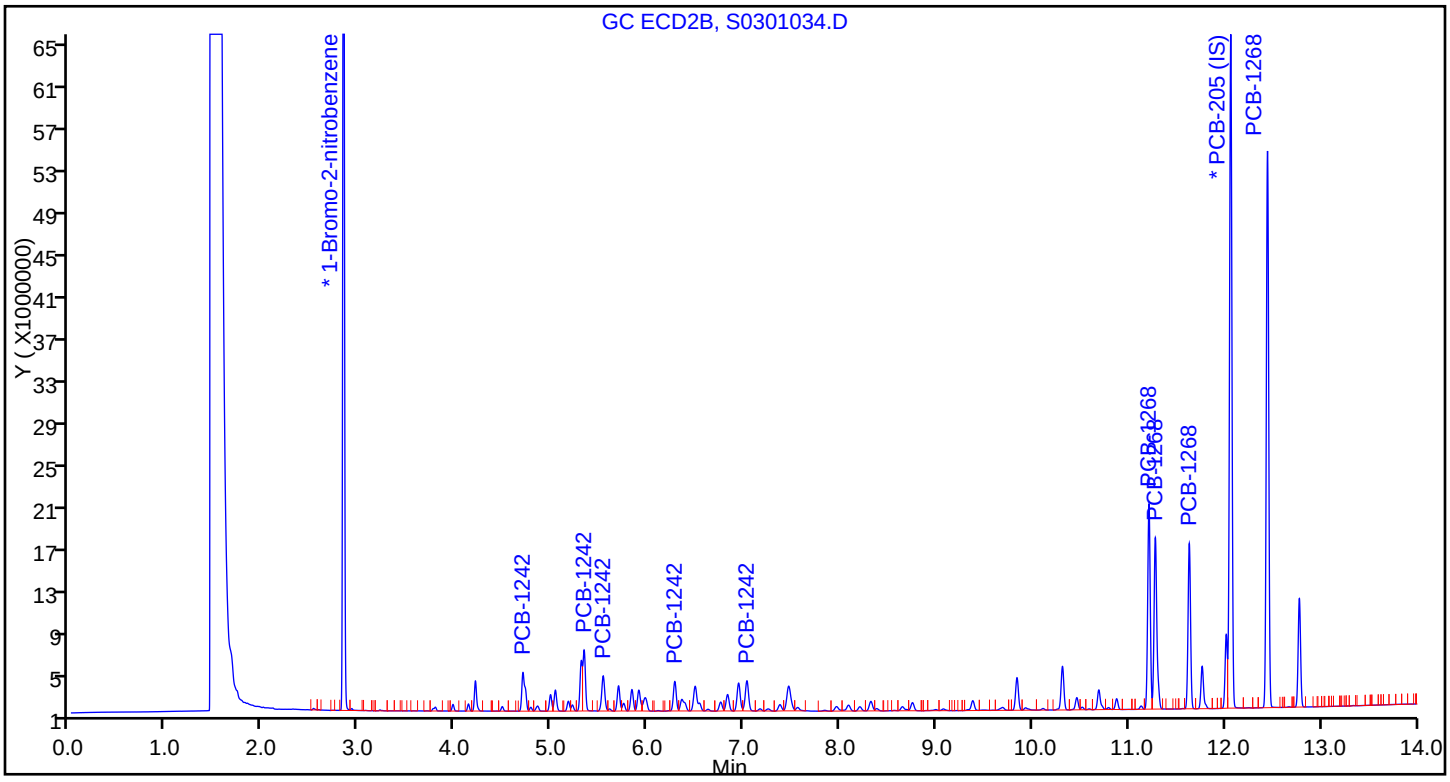
Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: IS PCB_CHGC10DUAL Limit Group: GCS 8082A ICAL with IS

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\S0301035.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 01-Mar-2018 15:44:01 ALS Bottle#: 11 Worklist Smp#: 11
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0020692-011
Operator ID: Instrument ID: CHGC10
Sublist: chrom-IS PCB_CHGC10DUAL*sub23

Method: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\IS PCB_CHGC10DUAL.m
Limit Group: GCS 8082A ICAL with IS
Last Update: 02-Mar-2018 05:56:47 Calib Date: 01-Mar-2018 20:27:10
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\S0301050.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK021

First Level Reviewer: oravecj Date: 02-Mar-2018 05:03:20

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 1-Bromo-2-nitrobenzene							
1	2.595	2.595	0.000	166158240H	0.1000	0.1000	
2	2.836	2.836	0.000	102420629H	0.1000	0.1000	
5 PCB-1242							
1	3.488	3.488	0.000	11488586H	0.5000	0.4731	
1	4.297	4.297	0.000	24738575H	0.5000	0.4964	
1	4.442	4.442	0.000	13947450H	0.5000	0.4794	
1	4.925	4.925	0.000	11946937H	0.5000	0.4741	
1	5.493	5.493	0.000	10575044H	0.5000	0.4924	
		Average of Peak Amounts =				0.4831	
2	4.701	4.701	0.000	6706349H	0.5000	0.4555	
2	5.338	5.338	0.000	10838040H	0.5000	0.4683	
2	5.536	5.536	0.000	6093423H	0.5000	0.4577	
2	6.281	6.281	0.000	4986226H	0.5000	0.4525	
2	7.031	7.031	0.000	5043400H	0.5000	0.4499	
		Average of Peak Amounts =				0.4568	
						RPD = 5.59	
11 PCB-1268							
1	9.572	9.572	0.000	59127306H	0.5000	0.4874	
1	9.635	9.635	0.000	51468275H	0.5000	0.4924	
1	9.946	9.946	0.000	48969891H	0.5000	0.4827	
1	10.912	10.912	0.000	165909945H	0.5000	0.4858	
		Average of Peak Amounts =				0.4871	
2	11.213	11.213	0.000	32420878H	0.5000	0.4928	
2	11.279	11.279	0.000	27363627H	0.5000	0.4941	
2	11.632	11.632	0.000	25635499H	0.5000	0.4846	
2	12.447	12.447	0.000	86424485H	0.5000	0.4838	
		Average of Peak Amounts =				0.4888	
						RPD = 0.36	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
* 46 PCB-205 (IS)							
1	10.572	10.573	0.000	100744286H	0.1000	0.1000	
2	12.063	12.064	-0.001	53030819H	0.1000	0.1000	

Reagents:

GCAR4268CALL4_00011	Amount Added:	1.00	Units: mL	
PCBINT_00007	Amount Added:	0.01	Units: mL	Run Reagent

Report Date: 02-Mar-2018 05:56:49 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\S0301035.D

Injection Date: 01-Mar-2018 15:44:01 Instrument ID: CHGC10

Lims ID: IC

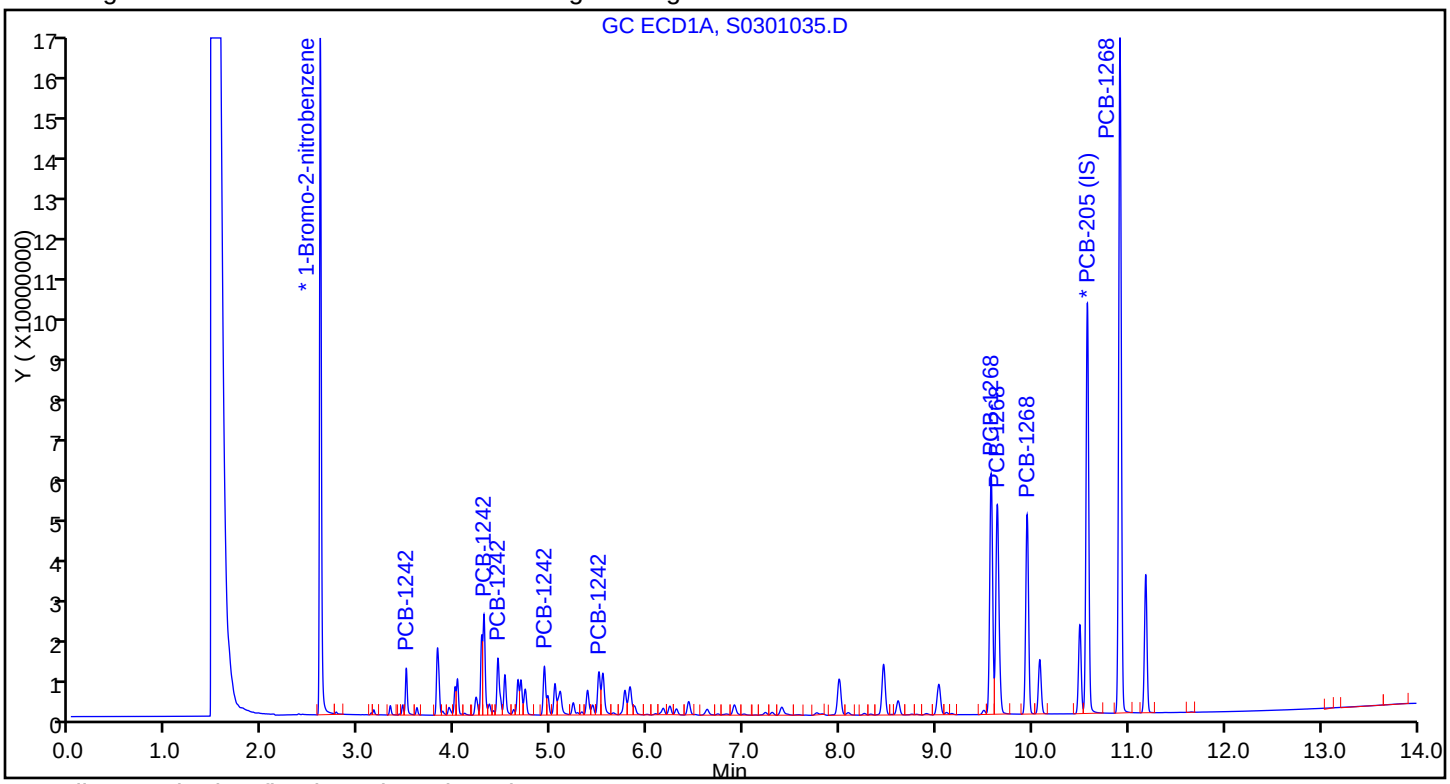
Client ID:

Operator ID: ALS Bottle#: 11 Worklist Smp#: 11

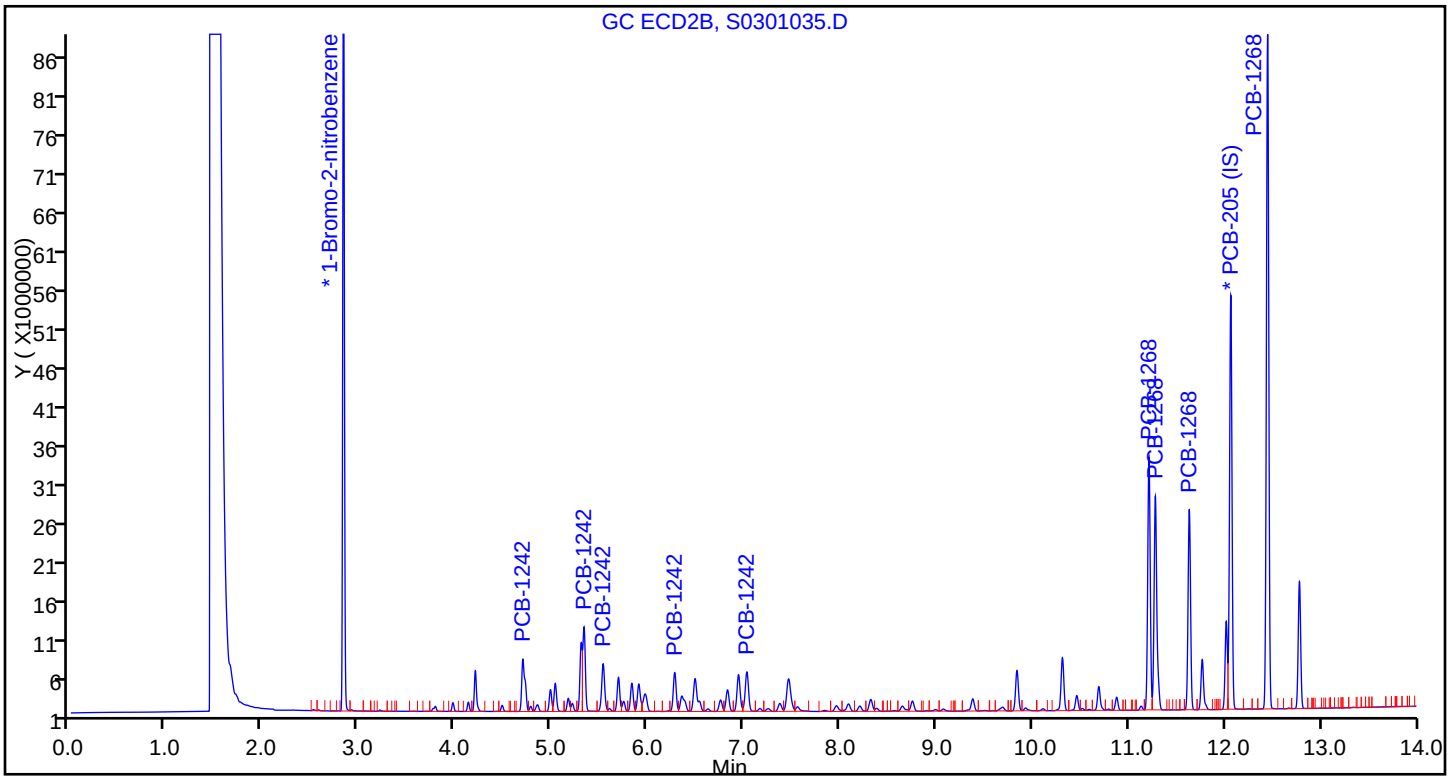
Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: IS PCB_CHGC10DUAL Limit Group: GCS 8082A ICAL with IS

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\S0301036.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 01-Mar-2018 16:02:55 ALS Bottle#: 12 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0020692-012
Operator ID: Instrument ID: CHGC10
Sublist: chrom-IS PCB_CHGC10DUAL*sub23

Method: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\IS PCB_CHGC10DUAL.m
Limit Group: GCS 8082A ICAL with IS
Last Update: 02-Mar-2018 05:56:45 Calib Date: 01-Mar-2018 20:27:10
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\S0301050.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK021

First Level Reviewer: oravecj Date: 02-Mar-2018 05:03:30

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 1-Bromo-2-nitrobenzene							
1	2.595	2.595	0.000	166366417H	0.1000	0.1000	
2	2.837	2.836	0.001	103596513H	0.1000	0.1000	
5 PCB-1242							
1	3.489	3.488	0.001	22037993H	1.00	0.9063	
1	4.297	4.297	0.000	49805999H	1.00	1.00	
1	4.442	4.442	0.000	28390162H	1.00	0.9745	
1	4.925	4.925	0.000	23447274H	1.00	0.9293	
1	5.492	5.493	-0.001	21884635H	1.00	1.02	
		Average of Peak Amounts =				0.9652	
2	4.702	4.701	0.001	13040169H	1.00	0.8756	
2	5.337	5.338	-0.001	22129818H	1.00	0.9454	
2	5.536	5.536	0.000	12083669H	1.00	0.8974	
2	6.282	6.281	0.001	9816613H	1.00	0.8807	
2	7.032	7.031	0.001	10266580H	1.00	0.9054	
		Average of Peak Amounts =				0.9009	
						RPD = 6.89	
11 PCB-1268							
1	9.572	9.572	0.000	122648527H	1.00	0.9417	
1	9.636	9.635	0.001	106386230H	1.00	0.9480	
1	9.946	9.946	0.000	103040414H	1.00	0.9462	
1	10.912	10.912	0.000	350743922H	1.00	0.9567	
		Average of Peak Amounts =				0.9481	
2	11.214	11.213	0.001	67698569H	1.00	0.9600	
2	11.281	11.279	0.002	56815338H	1.00	0.9571	
2	11.634	11.632	0.002	55130623H	1.00	0.9722	
2	12.448	12.447	0.001	189305702H	1.00	0.9887	
		Average of Peak Amounts =				0.9695	
						RPD = 2.23	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
* 46 PCB-205 (IS)							
1	10.572	10.573	0.000	108155861H	0.1000	0.1000	
2	12.066	12.064	0.001	56845183H	0.1000	0.1000	

Reagents:

GCAR4268CALL5_00007	Amount Added:	1.00	Units: mL	
PCBINT_00007	Amount Added:	0.01	Units: mL	Run Reagent

Report Date: 02-Mar-2018 05:56:47 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\S0301036.D

Injection Date: 01-Mar-2018 16:02:55 Instrument ID: CHGC10

Lims ID: IC

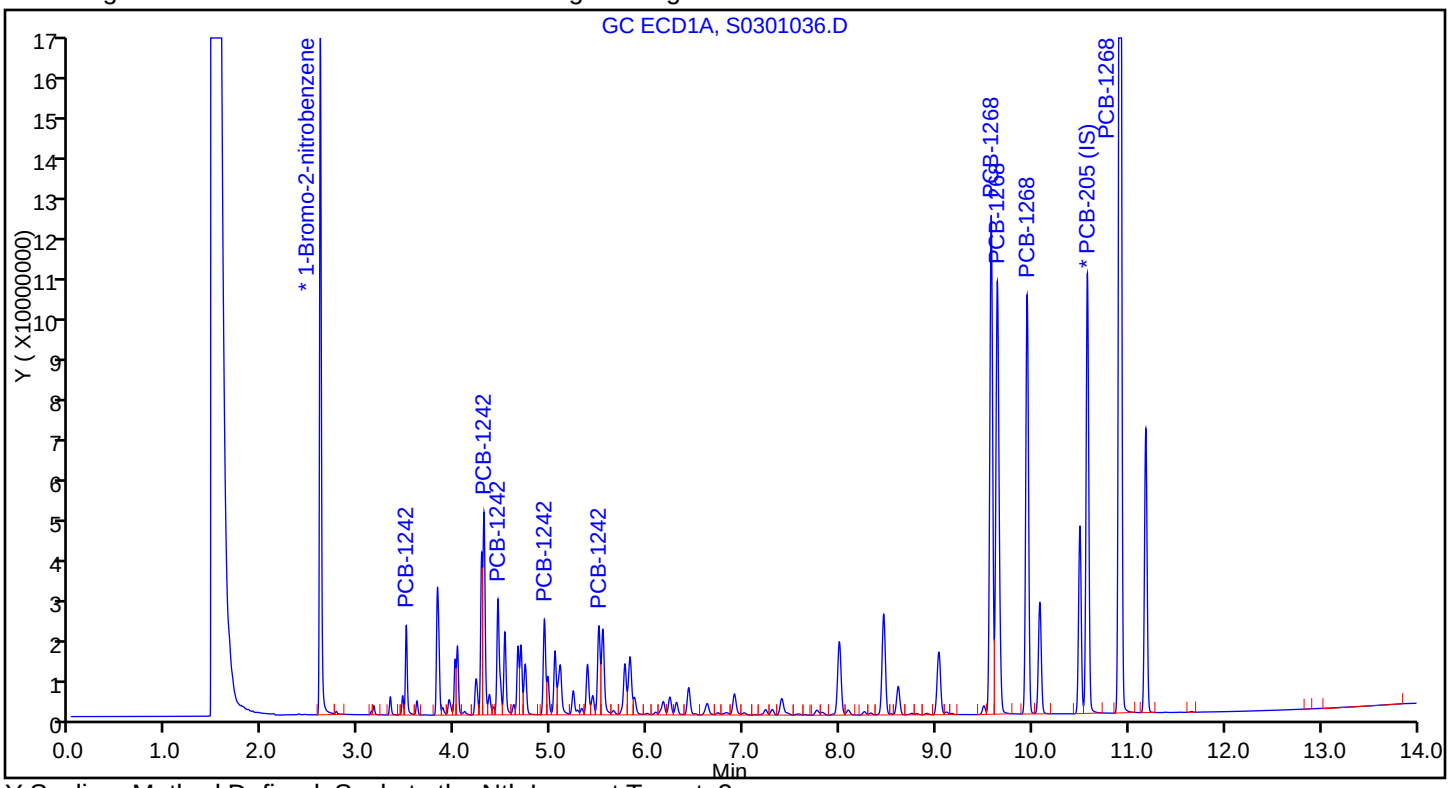
Client ID:

Operator ID: ALS Bottle#: 12 Worklist Smp#: 12

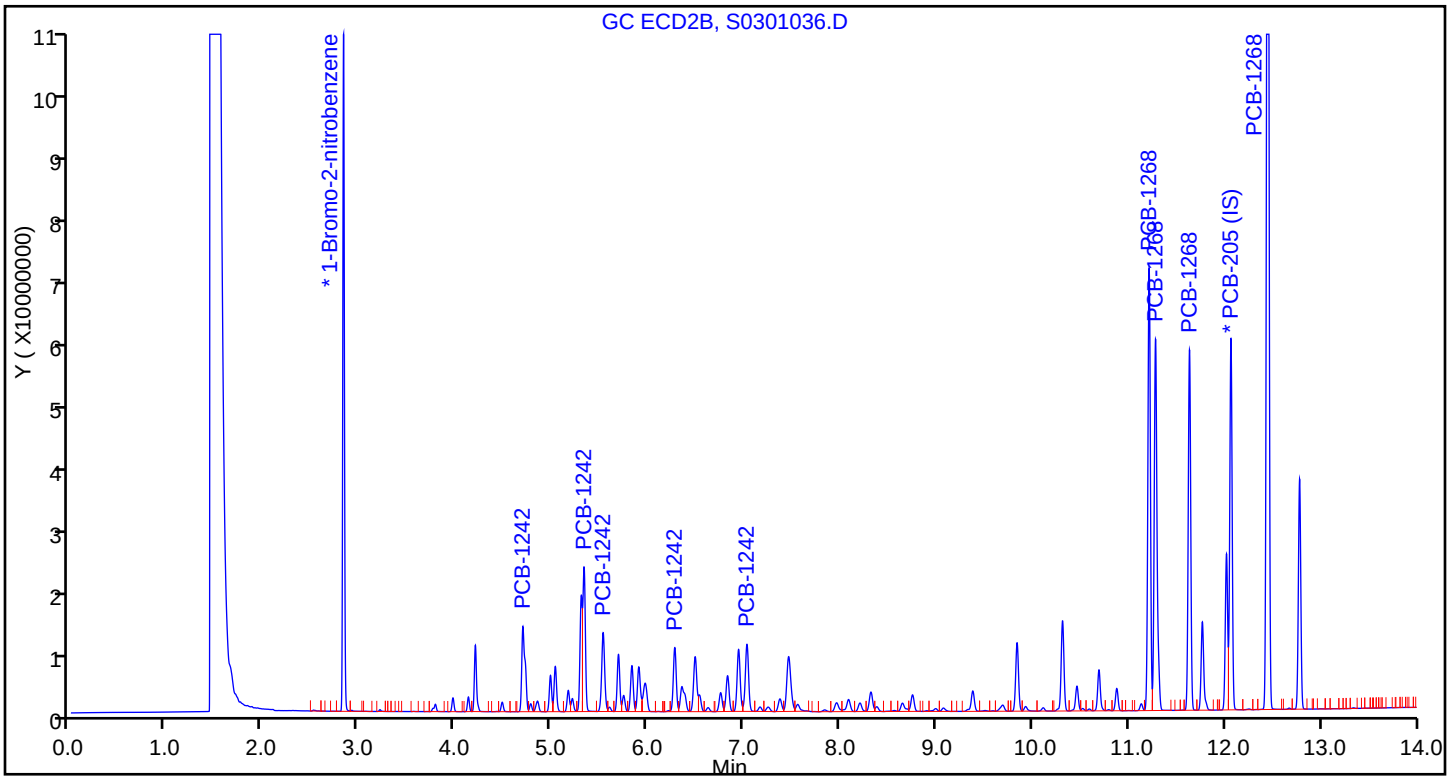
Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: IS PCB_CHGC10DUAL Limit Group: GCS 8082A ICAL with IS

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\S0301037.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 01-Mar-2018 16:21:48 ALS Bottle#: 13 Worklist Smp#: 13
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0020692-013
Operator ID: Instrument ID: CHGC10
Sublist: chrom-IS PCB_CHGC10DUAL*sub23

Method: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\IS PCB_CHGC10DUAL.m
Limit Group: GCS 8082A ICAL with IS
Last Update: 02-Mar-2018 05:56:42 Calib Date: 01-Mar-2018 20:27:10
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\S0301050.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK021

First Level Reviewer: oravecj Date: 02-Mar-2018 05:03:41

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 1-Bromo-2-nitrobenzene							
1	2.595	2.595	0.000	174846463H	0.1000	0.1000	
2	2.836	2.836	0.000	107890568H	0.1000	0.1000	
5 PCB-1242							
1	3.487	3.488	-0.001	80715446H	4.00	3.16	
1	4.294	4.297	-0.003	193014326H	4.00	3.68	
1	4.440	4.442	-0.002	109127889H	4.00	3.56	
1	4.924	4.925	-0.001	90975092H	4.00	3.43	
1	5.489	5.493	-0.004	92719935H	4.00	4.10	
		Average of Peak Amounts =				3.59	
2	4.701	4.701	0.000	49576572H	4.00	3.20	
2	5.337	5.338	-0.001	89697586H	4.00	3.68	
2	5.536	5.536	0.000	48807697H	4.00	3.48	
2	6.281	6.281	0.000	40852092H	4.00	3.52	
2	7.032	7.031	0.001	44054289H	4.00	3.73	
		Average of Peak Amounts =				3.52	
						RPD = 1.86	
11 PCB-1268							
1	9.570	9.572	-0.002	526191857H	4.00	3.49	
1	9.635	9.635	0.000	462569514H	4.00	3.56	
1	9.944	9.946	-0.002	446025094H	4.00	3.54	
1	10.912	10.912	0.000	1478958438H	4.00	3.49	
		Average of Peak Amounts =				3.52	
2	11.213	11.213	0.000	307184723H	4.00	3.73	
2	11.280	11.279	0.001	264230385H	4.00	3.81	
2	11.633	11.632	0.001	250943988H	4.00	3.79	
2	12.447	12.447	0.000	880704201H	4.00	3.94	
		Average of Peak Amounts =				3.82	
						RPD = 8.09	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
* 46 PCB-205 (IS)							
1	10.572	10.573	-0.001	125121027H	0.1000	0.1000	
2	12.064	12.064	0.000	66384258H	0.1000	0.1000	

Reagents:

GCAR4268CALL7_00007 Amount Added: 1.00 Units: mL
PCBINT_00007 Amount Added: 0.01 Units: mL Run Reagent

Report Date: 02-Mar-2018 05:56:44 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\S0301037.D

Injection Date: 01-Mar-2018 16:21:48 Instrument ID: CHGC10

Lims ID: IC

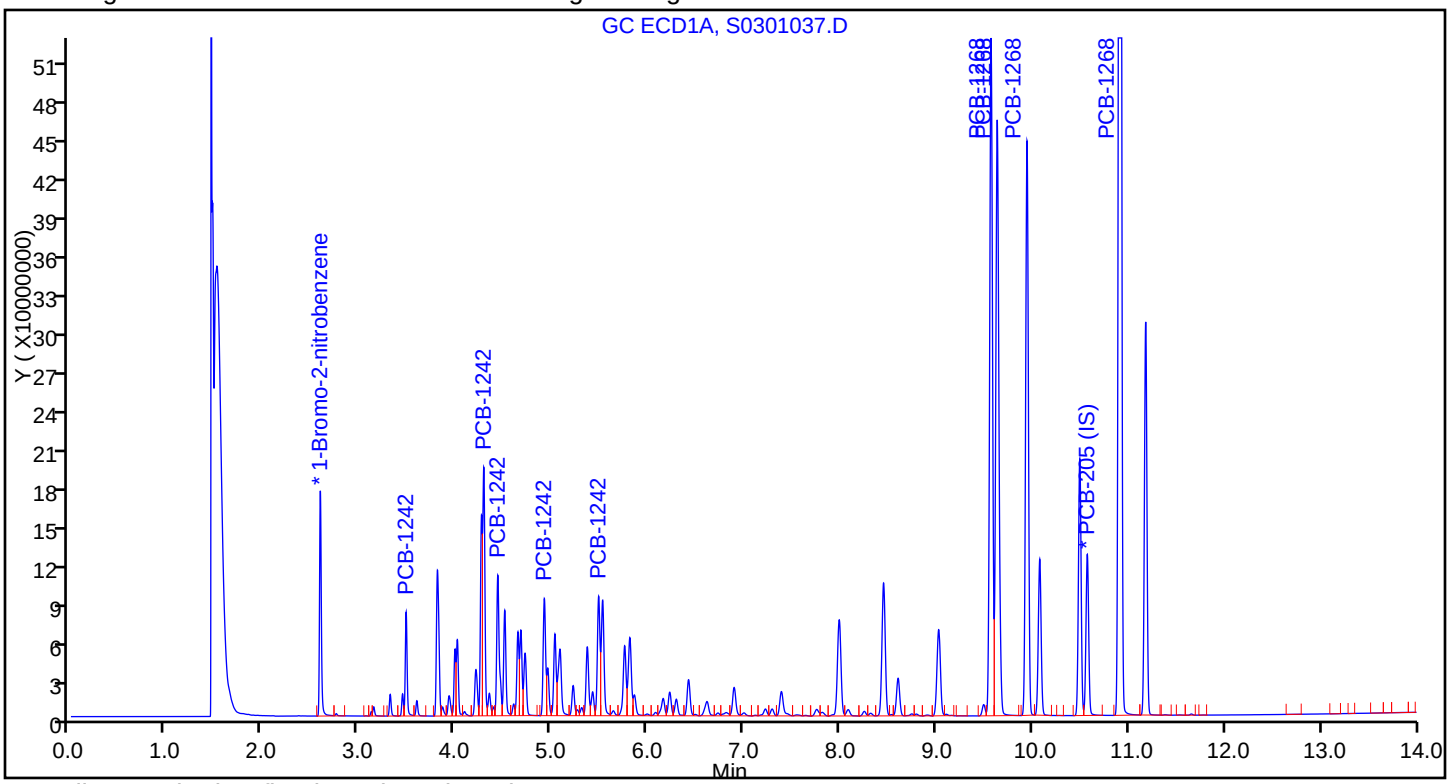
Client ID:

Operator ID: ALS Bottle#: 13 Worklist Smp#: 13

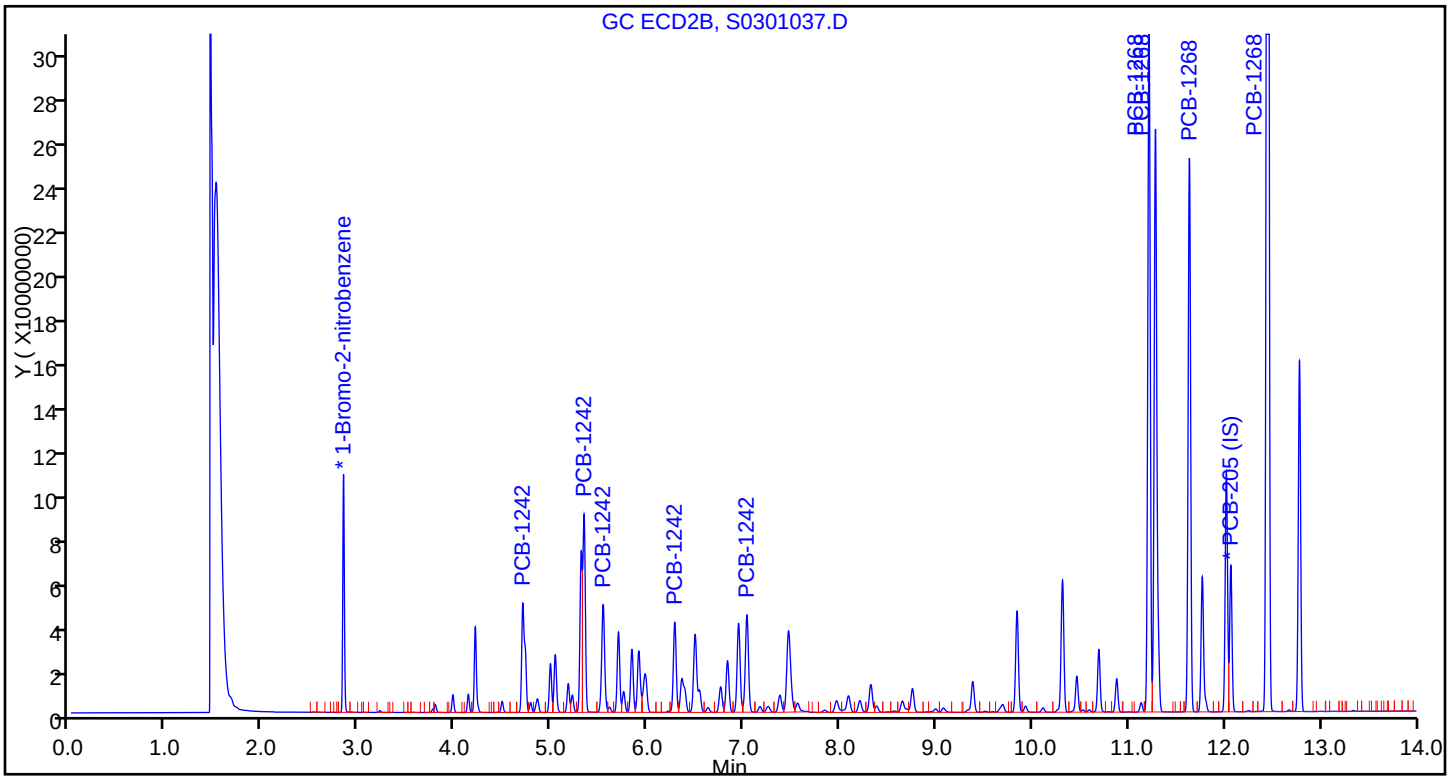
Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: IS PCB_CHGC10DUAL Limit Group: GCS 8082A ICAL with IS

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Pittsburgh Job No.: 180-78164-1 Analy Batch No.: 238236

SDG No.:

Instrument ID: CHGC10 GC Column: RTX-CLP1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/01/2018 16:40 Calibration End Date: 03/01/2018 18:15 Calibration ID: 37437

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 180-238236/14	S0301038.D
Level 2	IC 180-238236/15	S0301039.D
Level 3	IC 180-238236/16	S0301040.D
Level 4	IC 180-238236/17	S0301041.D
Level 5	IC 180-238236/18	S0301042.D
Level 6	IC 180-238236/19	S0301043.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
PCB-1248 Peak 1	0.0183 0.0163	0.0175	0.0181	0.0171	0.0168	Ave		0.0174				4.4		20.0			
PCB-1248 Peak 2	0.0230 0.0163	0.0204	0.0208	0.0188	0.0180	Ave		0.0196				11.9		20.0			
PCB-1248 Peak 3	0.0284 0.0201	0.0248	0.0254	0.0233	0.0223	Ave		0.0241				11.8		20.0			
PCB-1248 Peak 4	0.0208 0.0222	0.0234	0.0250	0.0237	0.0231	Ave		0.0230				6.1		20.0			
PCB-1248 Peak 5	0.0131 0.0149	0.0155	0.0163	0.0155	0.0152	Ave		0.0151				7.2		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Pittsburgh Job No.: 180-78164-1 Analy Batch No.: 238236

SDG No.:

Instrument ID: CHGC10 GC Column: RTX-CLP1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/01/2018 16:40 Calibration End Date: 03/01/2018 18:15 Calibration ID: 37437

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 180-238236/14	S0301038.D
Level 2	IC 180-238236/15	S0301039.D
Level 3	IC 180-238236/16	S0301040.D
Level 4	IC 180-238236/17	S0301041.D
Level 5	IC 180-238236/18	S0301042.D
Level 6	IC 180-238236/19	S0301043.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
PCB-1248 Peak 1	BNB	Ave	299390 109651723	2948455	7347680	14301553	27756699	0.0100 4.00	0.100	0.250	0.500	1.00
PCB-1248 Peak 2	BNB	Ave	376611 109613996	3445845	8423139	15775068	29775182	0.0100 4.00	0.100	0.250	0.500	1.00
PCB-1248 Peak 3	BNB	Ave	465509 135080439	4190365	10303294	19515540	36843068	0.0100 4.00	0.100	0.250	0.500	1.00
PCB-1248 Peak 4	BNB	Ave	341255 148621799	3942365	10121082	19834353	38179897	0.0100 4.00	0.100	0.250	0.500	1.00
PCB-1248 Peak 5	BNB	Ave	214283 99669350	2617168	6617836	12986712	25170515	0.0100 4.00	0.100	0.250	0.500	1.00

Curve Type Legend:
Ave = Average ISTD by Height

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\S0301038.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 01-Mar-2018 16:40:39 ALS Bottle#: 14 Worklist Smp#: 14
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0020692-014
Operator ID: Instrument ID: CHGC10
Sublist: chrom-IS PCB_CHGC10DUAL*sub24

Method: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\IS PCB_CHGC10DUAL.m
Limit Group: GCS 8082A ICAL with IS
Last Update: 02-Mar-2018 05:56:39 Calib Date: 01-Mar-2018 20:27:10
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\S0301050.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK021

First Level Reviewer: oravecj Date: 02-Mar-2018 05:04:58

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 1-Bromo-2-nitrobenzene							
1	2.594	2.595	-0.001	163717495H	0.1000	0.1000	
2	2.835	2.836	-0.001	102115394H	0.1000	0.1000	
7 PCB-1248							
1	4.275	4.274	0.001	299390H	0.0100	0.0105	
1	4.651	4.651	0.000	376611H	0.0100	0.0118	
1	4.925	4.925	0.000	465509H	0.0100	0.0118	
1	5.497	5.493	0.004	341255H	0.0100	0.009052	
1	5.815	5.814	0.001	214283H	0.0100	0.008673	
		Average of Peak Amounts =				0.0104	
2	5.836	5.835	0.001	184197H	0.0100	0.0129	
2	6.283	6.282	0.001	219186H	0.0100	0.0127	
2	6.495	6.495	0.000	176703H	0.0100	0.0125	
2	6.946	6.947	-0.001	218784H	0.0100	0.0122	
2	7.468	7.469	-0.001	163798H	0.0100	0.0120	
		Average of Peak Amounts =				0.0124	
						RPD = 18.26	
* 46 PCB-205 (IS)							
1	10.573	10.573	0.000	98528640H	0.1000	0.1000	
2	12.065	12.064	0.000	52510386H	0.1000	0.1000	

Reagents:

GCAR1248CALL1_00016 Amount Added: 1.00 Units: mL
PCBINT_00007 Amount Added: 0.01 Units: mL Run Reagent

Report Date: 02-Mar-2018 05:56:40 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\S0301038.D

Injection Date: 01-Mar-2018 16:40:39 Instrument ID: CHGC10

Lims ID: IC

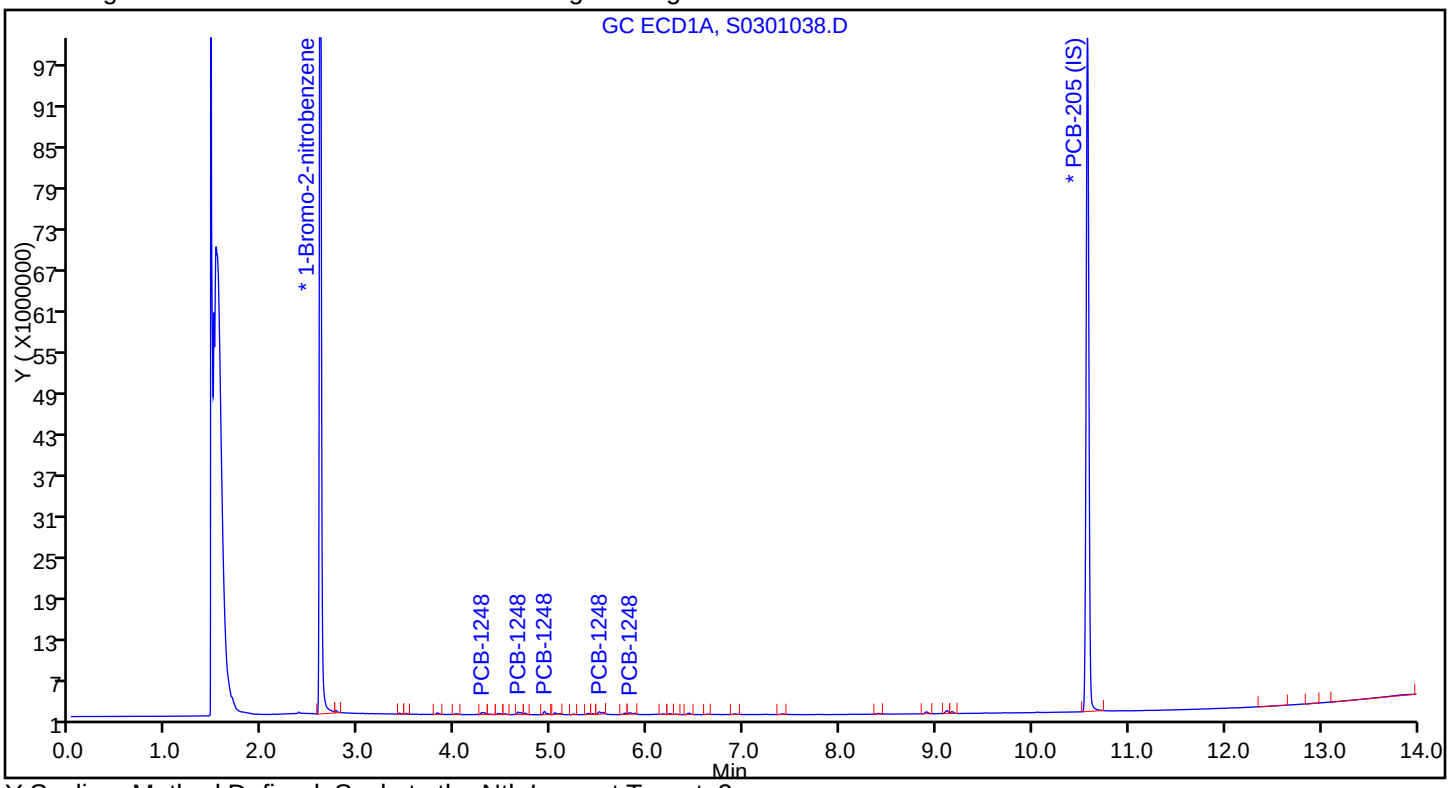
Client ID:

Operator ID: ALS Bottle#: 14 Worklist Smp#: 14

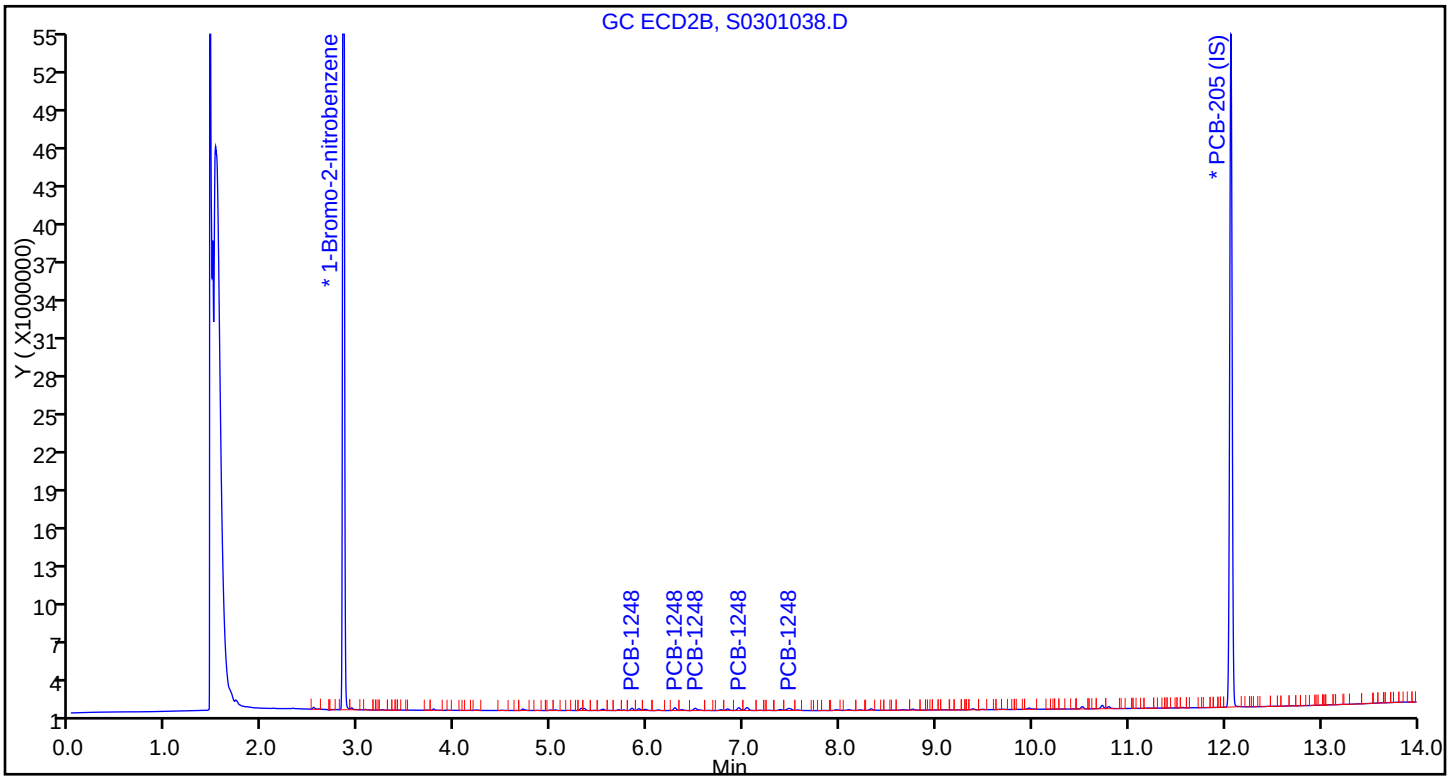
Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: IS PCB_CHGC10DUAL Limit Group: GCS 8082A ICAL with IS

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\S0301039.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 01-Mar-2018 16:59:31 ALS Bottle#: 15 Worklist Smp#: 15
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0020692-015
Operator ID: Instrument ID: CHGC10
Sublist: chrom-IS PCB_CHGC10DUAL*sub24

Method: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\IS PCB_CHGC10DUAL.m
Limit Group: GCS 8082A ICAL with IS
Last Update: 02-Mar-2018 05:56:36 Calib Date: 01-Mar-2018 20:27:10
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\S0301050.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK021

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 1-Bromo-2-nitrobenzene							
1	2.594	2.595	-0.001	168837123H	0.1000	0.1000	
2	2.835	2.836	-0.001	104378955H	0.1000	0.1000	
7 PCB-1248							
1	4.274	4.274	0.000	2948455H	0.1000	0.1006	
1	4.651	4.651	0.000	3445845H	0.1000	0.1043	
1	4.925	4.925	0.000	4190365H	0.1000	0.1031	
1	5.494	5.493	0.001	3942365H	0.1000	0.1014	
1	5.814	5.814	0.000	2617168H	0.1000	0.1027	
		Average of Peak Amounts =				0.1024	
2	5.834	5.835	-0.001	1507079H	0.1000	0.1036	
2	6.281	6.282	-0.001	1811851H	0.1000	0.1025	
2	6.492	6.495	-0.003	1472904H	0.1000	0.1015	
2	6.944	6.947	-0.003	1854346H	0.1000	0.1013	
2	7.468	7.469	-0.001	1399718H	0.1000	0.0999	
		Average of Peak Amounts =				0.1018	
						RPD = 0.64	
* 46 PCB-205 (IS)							
1	10.572	10.573	-0.001	114160104H	0.1000	0.1000	
2	12.064	12.064	-0.001	60278199H	0.1000	0.1000	

Reagents:

GCAR1248CALL2_00014 Amount Added: 1.00 Units: mL
PCBINT_00007 Amount Added: 0.01 Units: mL Run Reagent

Report Date: 02-Mar-2018 05:56:38 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\S0301039.D

Injection Date: 01-Mar-2018 16:59:31 Instrument ID: CHGC10

Lims ID: IC

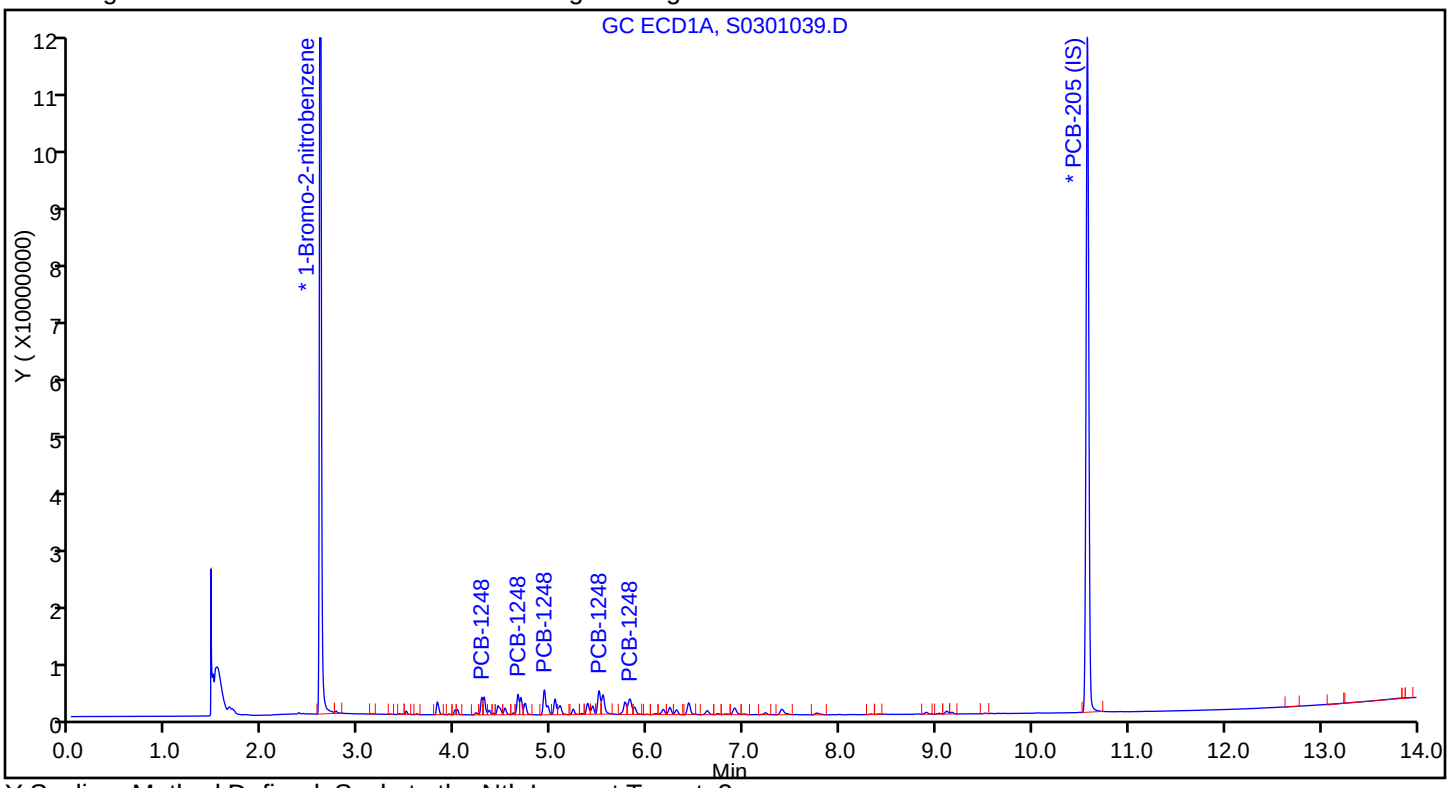
Client ID:

Operator ID: ALS Bottle#: 15 Worklist Smp#: 15

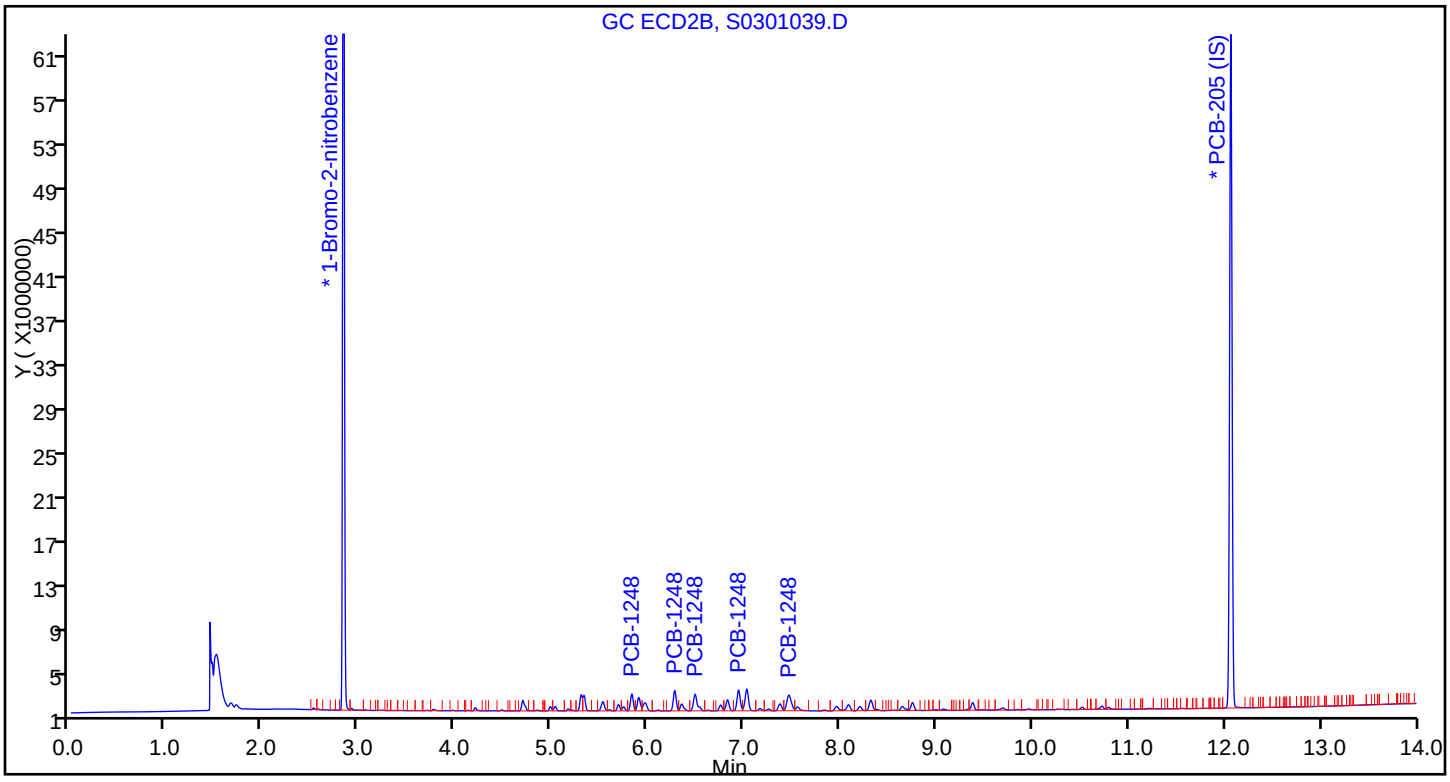
Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: IS PCB_CHGC10DUAL Limit Group: GCS 8082A ICAL with IS

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\S0301040.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 01-Mar-2018 17:18:25 ALS Bottle#: 16 Worklist Smp#: 16
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0020692-016
Operator ID: Instrument ID: CHGC10
Sublist: chrom-IS PCB_CHGC10DUAL*sub24

Method: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\IS PCB_CHGC10DUAL.m
Limit Group: GCS 8082A ICAL with IS
Last Update: 02-Mar-2018 05:56:33 Calib Date: 01-Mar-2018 20:27:10
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\S0301050.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK021

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 1-Bromo-2-nitrobenzene							
1	2.594	2.595	-0.001	162042336H	0.1000	0.1000	
2	2.835	2.836	-0.001	100209901H	0.1000	0.1000	
7 PCB-1248							
1	4.273	4.274	-0.001	7347680H	0.2500	0.2613	
1	4.651	4.651	0.000	8423139H	0.2500	0.2656	
1	4.926	4.925	0.001	10303294H	0.2500	0.2641	
1	5.493	5.493	0.000	10121082H	0.2500	0.2713	
1	5.814	5.814	0.000	6617836H	0.2500	0.2706	
		Average of Peak Amounts =				0.2666	
2	5.836	5.835	0.001	3566502H	0.2500	0.2553	
2	6.282	6.282	0.000	4273311H	0.2500	0.2519	
2	6.493	6.495	-0.002	3547412H	0.2500	0.2547	
2	6.945	6.947	-0.002	4444109H	0.2500	0.2528	
2	7.469	7.469	0.000	3388611H	0.2500	0.2520	
		Average of Peak Amounts =				0.2533	
						RPD = 5.09	
* 46 PCB-205 (IS)							
1	10.573	10.573	0.000	107326314H	0.1000	0.1000	
2	12.064	12.064	0.000	56816583H	0.1000	0.1000	

Reagents:

GCAR1248CALL3_00014 Amount Added: 1.00 Units: mL
PCBINT_00007 Amount Added: 0.01 Units: mL Run Reagent

Report Date: 02-Mar-2018 05:56:35 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\S0301040.D

Injection Date: 01-Mar-2018 17:18:25 Instrument ID: CHGC10

Lims ID: IC

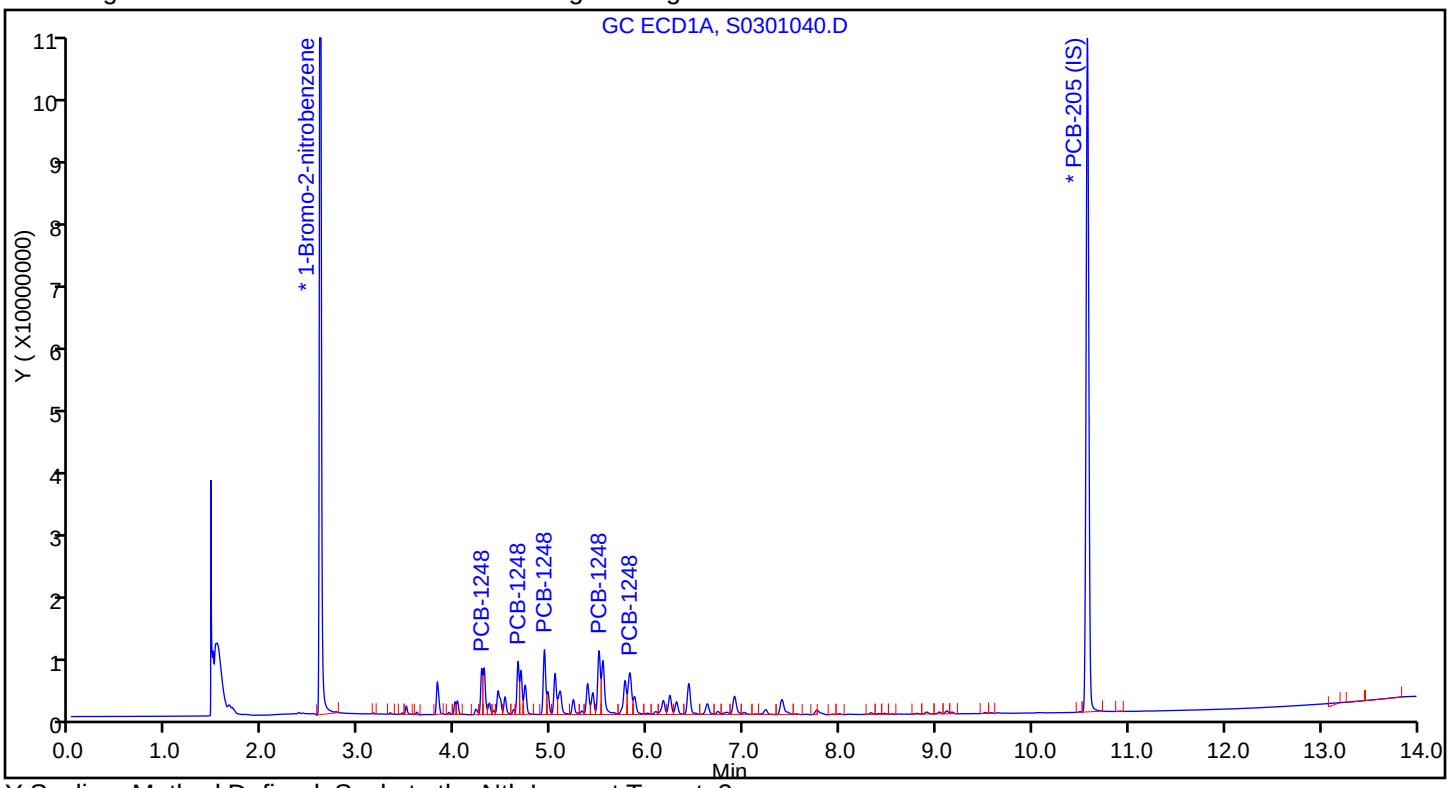
Client ID:

Operator ID: ALS Bottle#: 16 Worklist Smp#: 16

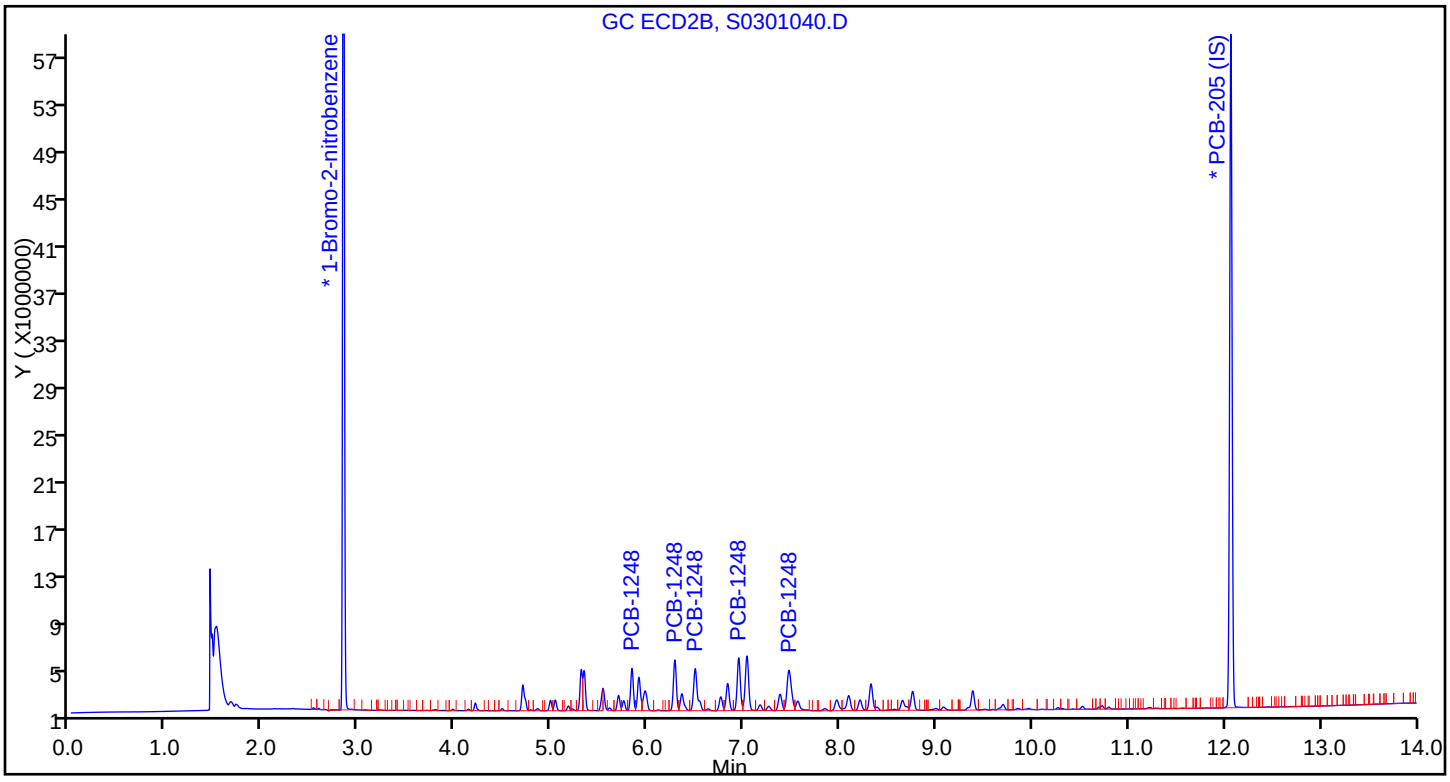
Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: IS PCB_CHGC10DUAL Limit Group: GCS 8082A ICAL with IS

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\S0301041.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 01-Mar-2018 17:37:17 ALS Bottle#: 17 Worklist Smp#: 17
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0020692-017
Operator ID: Instrument ID: CHGC10
Sublist: chrom-IS PCB_CHGC10DUAL*sub24

Method: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\IS PCB_CHGC10DUAL.m
Limit Group: GCS 8082A ICAL with IS
Last Update: 02-Mar-2018 05:56:31 Calib Date: 01-Mar-2018 20:27:10
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\S0301050.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK021

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 1-Bromo-2-nitrobenzene							
1	2.595	2.595	-0.001	167461519H	0.1000	0.1000	
2	2.835	2.836	-0.001	104063508H	0.1000	0.1000	
7 PCB-1248							
1	4.274	4.274	0.000	14301553H	0.5000	0.4921	
1	4.651	4.651	0.000	15775068H	0.5000	0.4813	
1	4.925	4.925	0.000	19515540H	0.5000	0.4840	
1	5.493	5.493	0.000	19834353H	0.5000	0.5144	
1	5.814	5.814	0.000	12986712H	0.5000	0.5139	
		Average of Peak Amounts =				0.4971	
2	5.835	5.835	0.000	6623619H	0.5000	0.4567	
2	6.282	6.282	0.000	8188817H	0.5000	0.4647	
2	6.495	6.495	0.000	6706071H	0.5000	0.4637	
2	6.947	6.947	0.000	8524385H	0.5000	0.4669	
2	7.469	7.469	0.000	6568976H	0.5000	0.4705	
		Average of Peak Amounts =				0.4645	
						RPD = 6.79	
* 46 PCB-205 (IS)							
1	10.574	10.573	0.001	118378572H	0.1000	0.1000	
2	12.065	12.064	0.001	61506367H	0.1000	0.1000	

Reagents:

GCAR1248CALL4_00019 Amount Added: 1.00 Units: mL
PCBINT_00007 Amount Added: 0.01 Units: mL Run Reagent

Report Date: 02-Mar-2018 05:56:32 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\S0301041.D

Injection Date: 01-Mar-2018 17:37:17 Instrument ID: CHGC10

Lims ID: IC

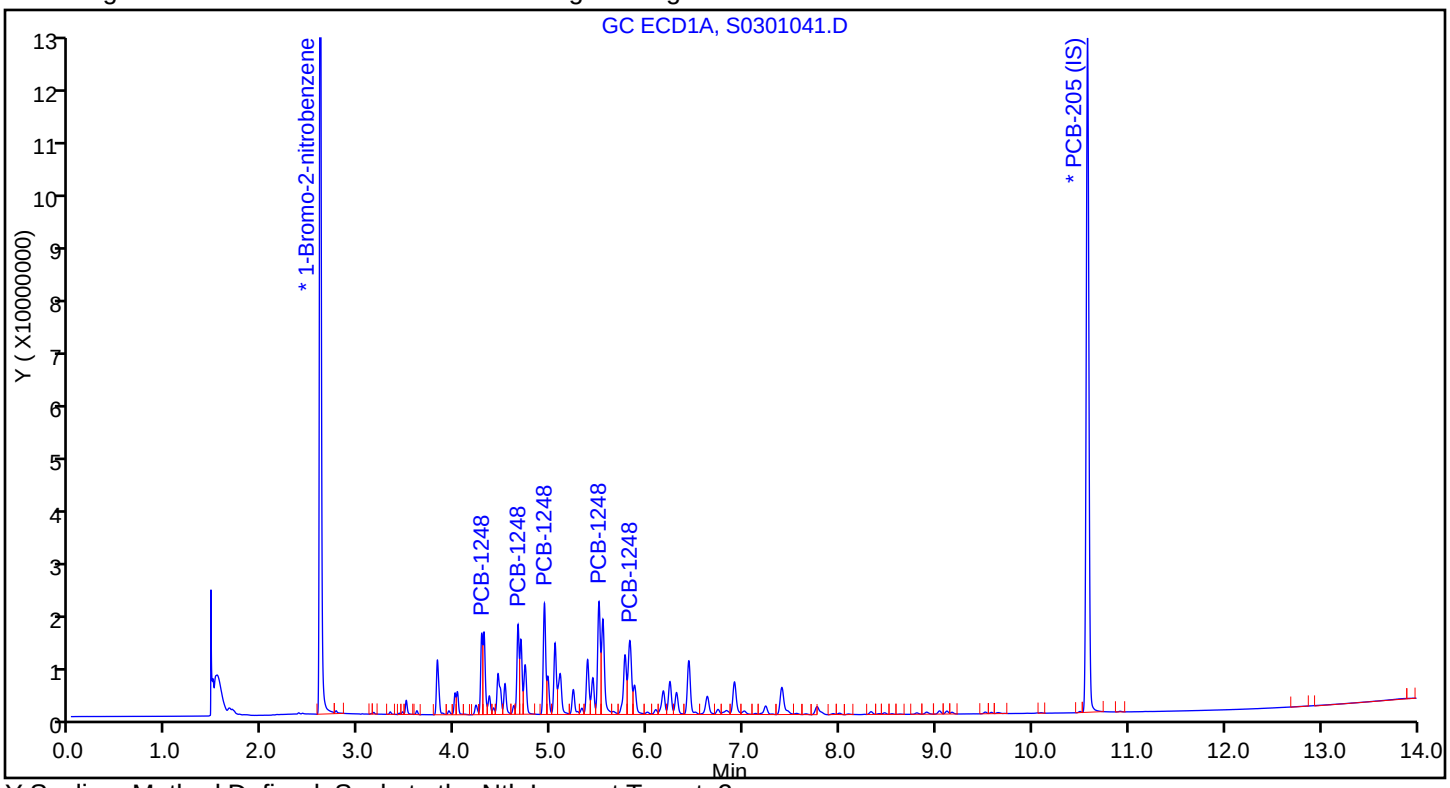
Client ID:

Operator ID: ALS Bottle#: 17 Worklist Smp#: 17

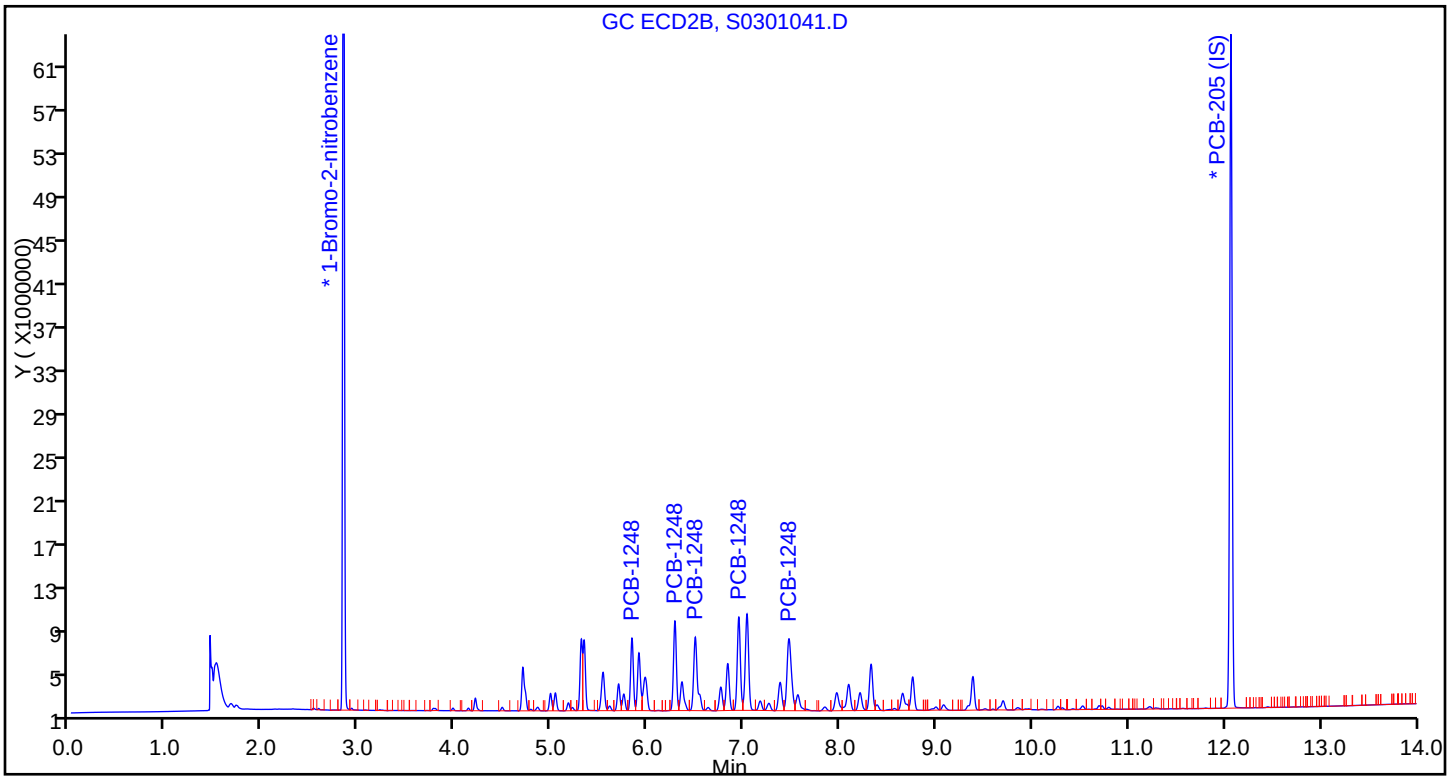
Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: IS PCB_CHGC10DUAL Limit Group: GCS 8082A ICAL with IS

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\S0301042.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 01-Mar-2018 17:56:09 ALS Bottle#: 18 Worklist Smp#: 18
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0020692-018
Operator ID: Instrument ID: CHGC10
Sublist: chrom-IS PCB_CHGC10DUAL*sub24

Method: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\IS PCB_CHGC10DUAL.m
Limit Group: GCS 8082A ICAL with IS
Last Update: 02-Mar-2018 05:56:28 Calib Date: 01-Mar-2018 20:27:10
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\S0301050.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK021

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 1-Bromo-2-nitrobenzene							
1	2.594	2.595	-0.001	165068445H	0.1000	0.1000	
2	2.836	2.836	0.000	102249613H	0.1000	0.1000	
7 PCB-1248							
1	4.272	4.274	-0.002	27756699H	1.00	0.9689	
1	4.650	4.651	-0.001	29775182H	1.00	0.9217	
1	4.924	4.925	-0.001	36843068H	1.00	0.9271	
1	5.491	5.493	-0.002	38179897H	1.00	1.00	
1	5.813	5.814	-0.001	25170515H	1.00	1.01	
		Average of Peak Amounts =				0.9665	
2	5.836	5.835	0.001	12652275H	1.00	0.8878	
2	6.281	6.282	-0.001	15699682H	1.00	0.9068	
2	6.494	6.495	-0.001	12997713H	1.00	0.9148	
2	6.946	6.947	-0.001	16552651H	1.00	0.9227	
2	7.468	7.469	-0.001	12682947H	1.00	0.9245	
		Average of Peak Amounts =				0.9113	
						RPD = 5.88	
* 46 PCB-205 (IS)							
1	10.572	10.573	0.000	111472668H	0.1000	0.1000	
2	12.065	12.064	0.001	58759530H	0.1000	0.1000	

Reagents:

GCAR1248CALL5_00014 Amount Added: 1.00 Units: mL
PCBINT_00007 Amount Added: 0.01 Units: mL Run Reagent

Report Date: 02-Mar-2018 05:56:29 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\S0301042.D

Injection Date: 01-Mar-2018 17:56:09 Instrument ID: CHGC10

Lims ID: IC

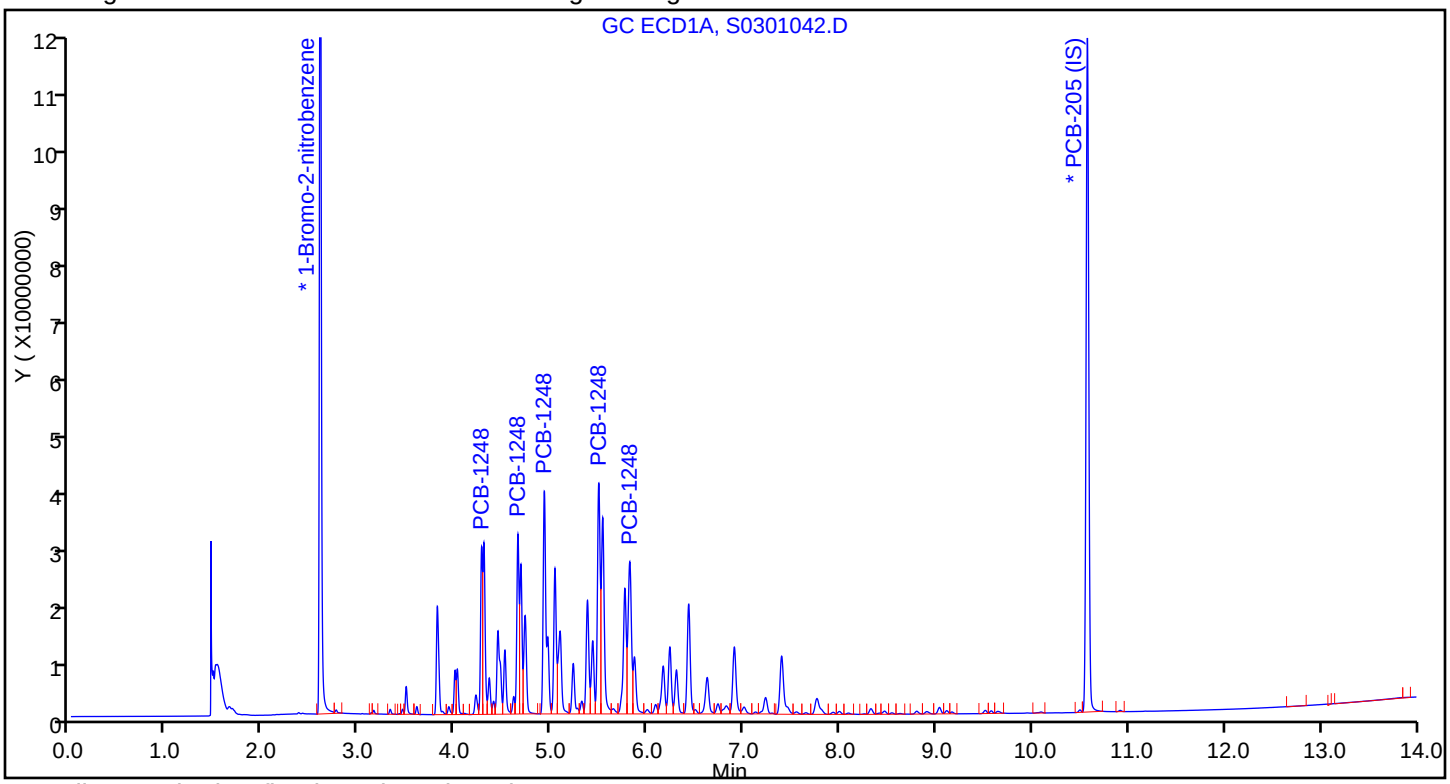
Client ID:

Operator ID: ALS Bottle#: 18 Worklist Smp#: 18

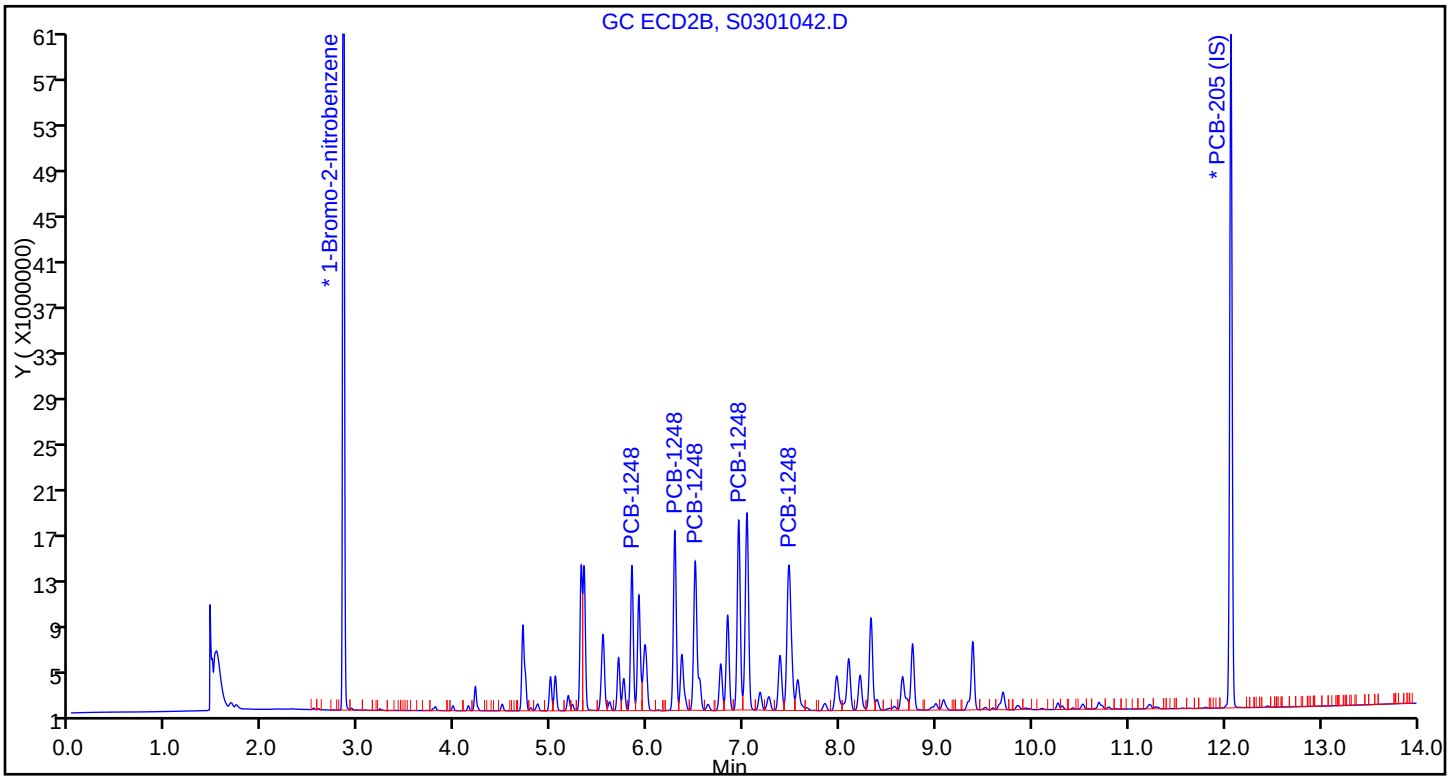
Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: IS PCB_CHGC10DUAL Limit Group: GCS 8082A ICAL with IS

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\S0301043.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 01-Mar-2018 18:15:01 ALS Bottle#: 19 Worklist Smp#: 19
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0020692-019
Operator ID: Instrument ID: CHGC10
Sublist: chrom-IS PCB_CHGC10DUAL*sub24

Method: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\IS PCB_CHGC10DUAL.m
Limit Group: GCS 8082A ICAL with IS
Last Update: 02-Mar-2018 05:56:25 Calib Date: 01-Mar-2018 20:27:10
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\S0301050.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK021

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 1-Bromo-2-nitrobenzene							
1	2.594	2.595	-0.001	167664512H	0.1000	0.1000	
2	2.835	2.836	-0.001	104281172H	0.1000	0.1000	
7 PCB-1248							
1	4.272	4.274	-0.002	109651723H	4.00	3.77	
1	4.650	4.651	-0.001	109613996H	4.00	3.34	
1	4.924	4.925	-0.001	135080439H	4.00	3.35	
1	5.489	5.493	-0.004	148621799H	4.00	3.85	
1	5.812	5.814	-0.002	99669350H	4.00	3.94	
		Average of Peak Amounts =				3.65	
2	5.835	5.835	0.000	49272416H	4.00	3.39	
2	6.281	6.282	-0.001	60975855H	4.00	3.45	
2	6.493	6.495	-0.002	50892287H	4.00	3.51	
2	6.945	6.947	-0.002	65781286H	4.00	3.60	
2	7.467	7.469	-0.002	52125879H	4.00	3.73	
		Average of Peak Amounts =				3.54	
						RPD = 3.16	
* 46 PCB-205 (IS)							
1	10.572	10.573	-0.001	113322244H	0.1000	0.1000	
2	12.064	12.064	0.000	59197212H	0.1000	0.1000	

Reagents:

GCAR1248CALL7_00005 Amount Added: 1.00 Units: mL
PCBINT_00007 Amount Added: 0.01 Units: mL Run Reagent

Report Date: 02-Mar-2018 05:56:26 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\S0301043.D

Injection Date: 01-Mar-2018 18:15:01 Instrument ID: CHGC10

Lims ID: IC

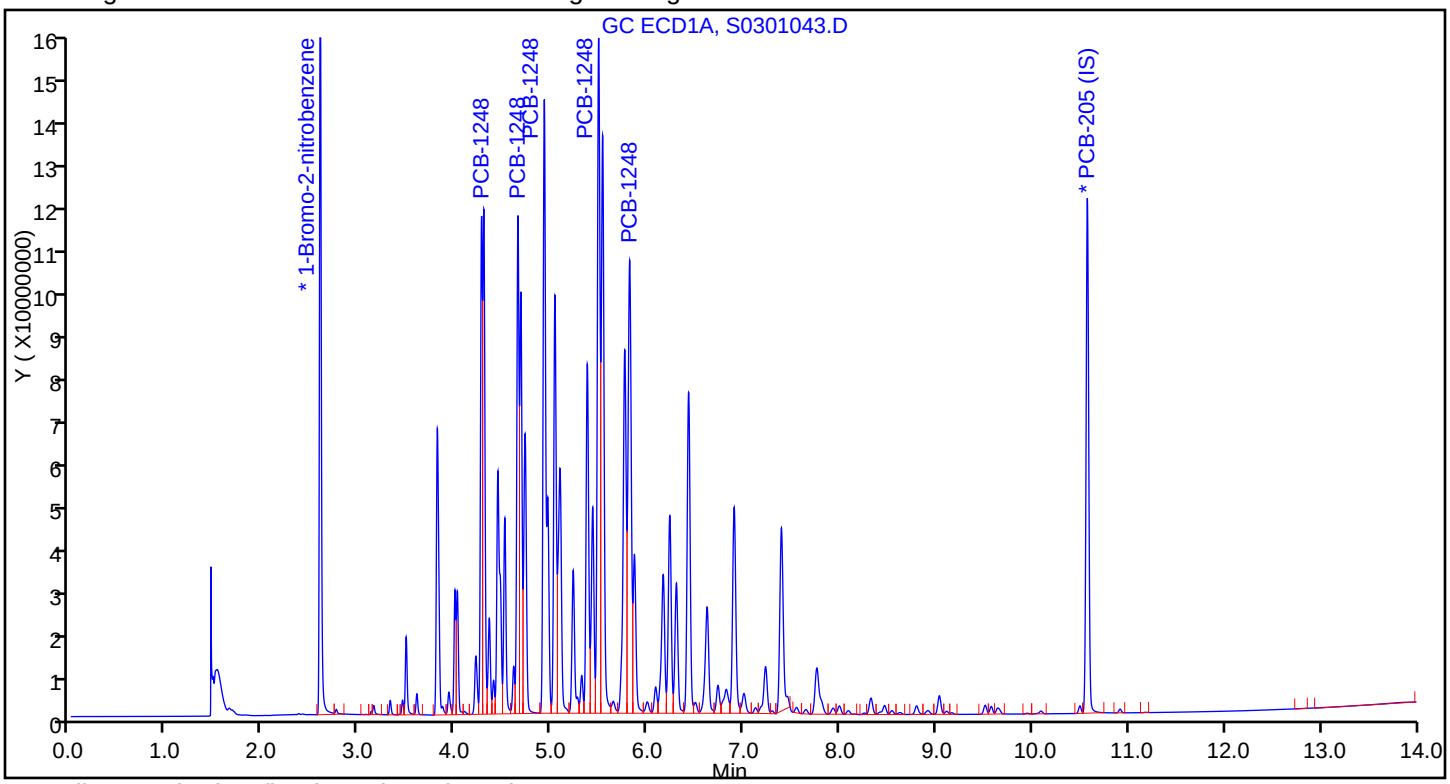
Client ID:

Operator ID: ALS Bottle#: 19 Worklist Smp#: 19

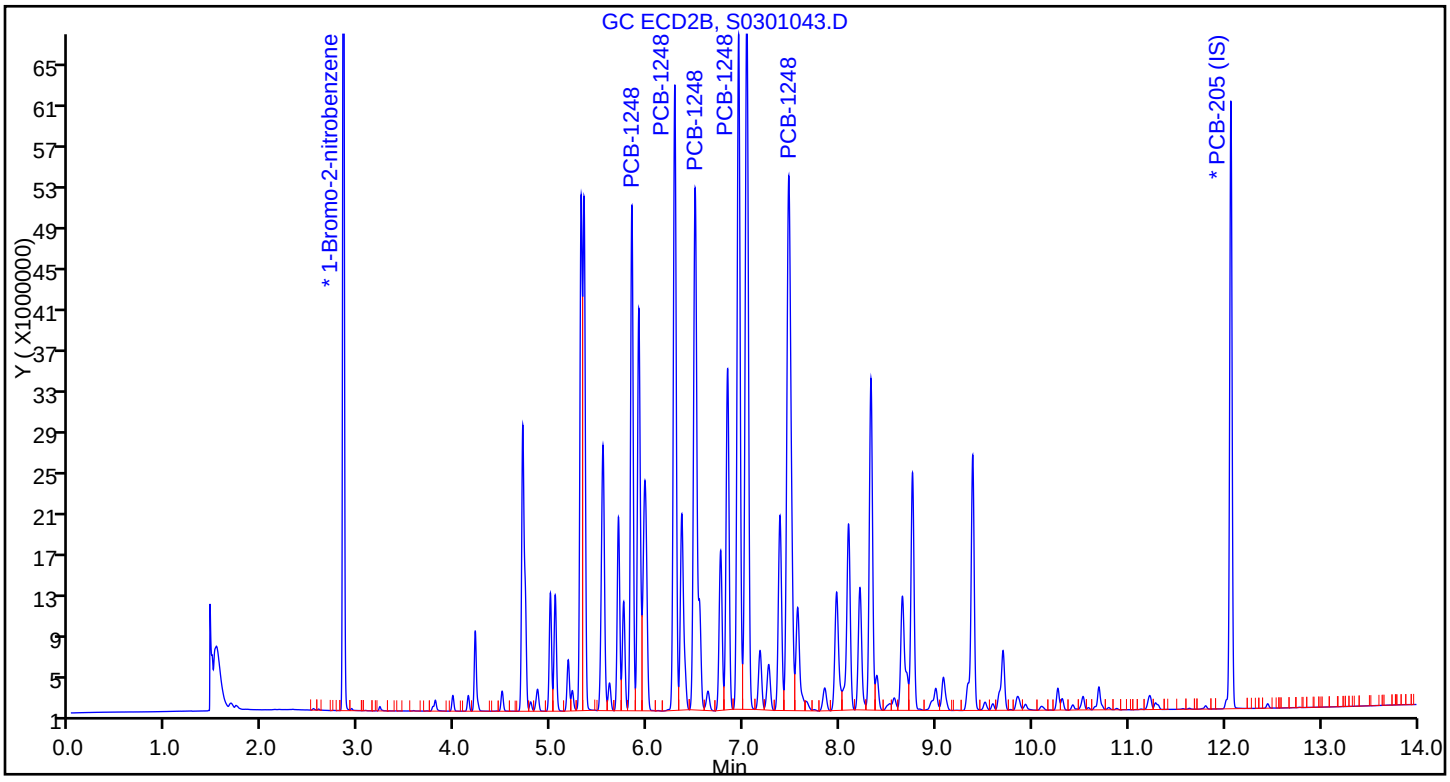
Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: IS PCB_CHGC10DUAL Limit Group: GCS 8082A ICAL with IS

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Pittsburgh Job No.: 180-78164-1 Analy Batch No.: 238236

SDG No.:

Instrument ID: CHGC10 GC Column: RTX-CLP2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/01/2018 16:40 Calibration End Date: 03/01/2018 18:15 Calibration ID: 37438

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 180-238236/14	S0301038.D
Level 2	IC 180-238236/15	S0301039.D
Level 3	IC 180-238236/16	S0301040.D
Level 4	IC 180-238236/17	S0301041.D
Level 5	IC 180-238236/18	S0301042.D
Level 6	IC 180-238236/19	S0301043.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
PCB-1248 Peak 1	0.0180 0.0118	0.0144	0.0142	0.0127	0.0124	Ave		0.0139				16.2		20.0			
PCB-1248 Peak 2	0.0215 0.0146	0.0174	0.0171	0.0157	0.0154	Ave		0.0169				14.5		20.0			
PCB-1248 Peak 3	0.0173 0.0122	0.0141	0.0142	0.0129	0.0127	Ave		0.0139				13.3		20.0			
PCB-1248 Peak 4	0.0214 0.0158	0.0178	0.0177	0.0164	0.0162	Ave		0.0175				11.8		20.0			
PCB-1248 Peak 5	0.0160 0.0125	0.0134	0.0135	0.0126	0.0124	Ave		0.0134				10.2		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Pittsburgh Job No.: 180-78164-1 Analy Batch No.: 238236

SDG No.:

Instrument ID: CHGC10 GC Column: RTX-CLP2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/01/2018 16:40 Calibration End Date: 03/01/2018 18:15 Calibration ID: 37438

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 180-238236/14	S0301038.D
Level 2	IC 180-238236/15	S0301039.D
Level 3	IC 180-238236/16	S0301040.D
Level 4	IC 180-238236/17	S0301041.D
Level 5	IC 180-238236/18	S0301042.D
Level 6	IC 180-238236/19	S0301043.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
PCB-1248 Peak 1	BNB	Ave	184197 49272416	1507079	3566502	6623619	12652275	0.0100 4.00	0.100	0.250	0.500	1.00
PCB-1248 Peak 2	BNB	Ave	219186 60975855	1811851	4273311	8188817	15699682	0.0100 4.00	0.100	0.250	0.500	1.00
PCB-1248 Peak 3	BNB	Ave	176703 50892287	1472904	3547412	6706071	12997713	0.0100 4.00	0.100	0.250	0.500	1.00
PCB-1248 Peak 4	BNB	Ave	218784 65781286	1854346	4444109	8524385	16552651	0.0100 4.00	0.100	0.250	0.500	1.00
PCB-1248 Peak 5	BNB	Ave	163798 52125879	1399718	3388611	6568976	12682947	0.0100 4.00	0.100	0.250	0.500	1.00

Curve Type Legend:
Ave = Average ISTD by Height

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\S0301038.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 01-Mar-2018 16:40:39 ALS Bottle#: 14 Worklist Smp#: 14
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0020692-014
Operator ID: Instrument ID: CHGC10
Sublist: chrom-IS PCB_CHGC10DUAL*sub24

Method: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\IS PCB_CHGC10DUAL.m
Limit Group: GCS 8082A ICAL with IS
Last Update: 02-Mar-2018 05:56:39 Calib Date: 01-Mar-2018 20:27:10
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\S0301050.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK021

First Level Reviewer: oravecj Date: 02-Mar-2018 05:04:58

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 1-Bromo-2-nitrobenzene							
1	2.594	2.595	-0.001	163717495H	0.1000	0.1000	
2	2.835	2.836	-0.001	102115394H	0.1000	0.1000	
7 PCB-1248							
1	4.275	4.274	0.001	299390H	0.0100	0.0105	
1	4.651	4.651	0.000	376611H	0.0100	0.0118	
1	4.925	4.925	0.000	465509H	0.0100	0.0118	
1	5.497	5.493	0.004	341255H	0.0100	0.009052	
1	5.815	5.814	0.001	214283H	0.0100	0.008673	
		Average of Peak Amounts =				0.0104	
2	5.836	5.835	0.001	184197H	0.0100	0.0129	
2	6.283	6.282	0.001	219186H	0.0100	0.0127	
2	6.495	6.495	0.000	176703H	0.0100	0.0125	
2	6.946	6.947	-0.001	218784H	0.0100	0.0122	
2	7.468	7.469	-0.001	163798H	0.0100	0.0120	
		Average of Peak Amounts =				0.0124	
						RPD = 18.26	
* 46 PCB-205 (IS)							
1	10.573	10.573	0.000	98528640H	0.1000	0.1000	
2	12.065	12.064	0.000	52510386H	0.1000	0.1000	

Reagents:

GCAR1248CALL1_00016 Amount Added: 1.00 Units: mL
PCBINT_00007 Amount Added: 0.01 Units: mL Run Reagent

Report Date: 02-Mar-2018 05:56:41 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\S0301038.D

Injection Date: 01-Mar-2018 16:40:39 Instrument ID: CHGC10

Lims ID: IC

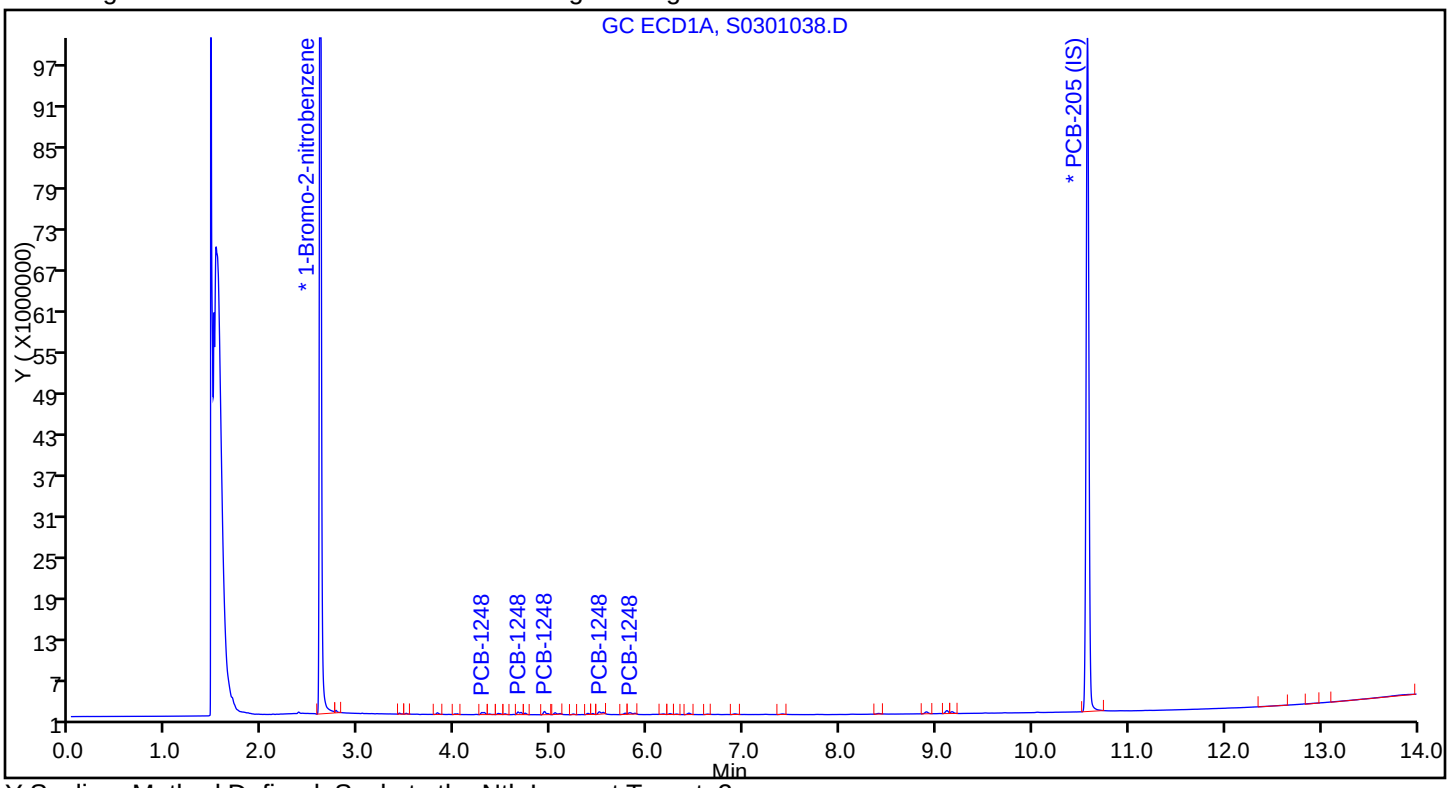
Client ID:

Operator ID: ALS Bottle#: 14 Worklist Smp#: 14

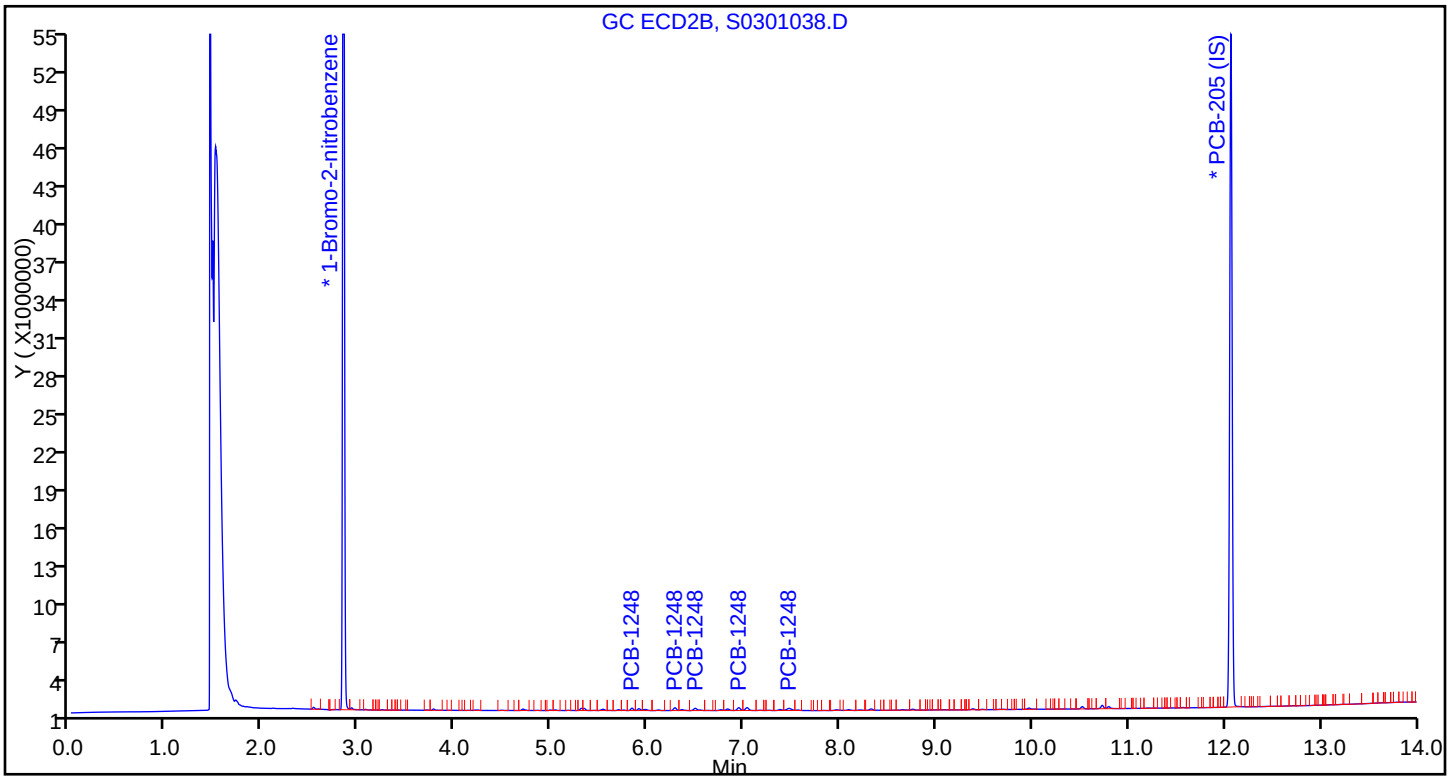
Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: IS PCB_CHGC10DUAL Limit Group: GCS 8082A ICAL with IS

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\S0301039.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 01-Mar-2018 16:59:31 ALS Bottle#: 15 Worklist Smp#: 15
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0020692-015
Operator ID: Instrument ID: CHGC10
Sublist: chrom-IS PCB_CHGC10DUAL*sub24

Method: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\IS PCB_CHGC10DUAL.m
Limit Group: GCS 8082A ICAL with IS
Last Update: 02-Mar-2018 05:56:36 Calib Date: 01-Mar-2018 20:27:10
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\S0301050.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK021

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 1-Bromo-2-nitrobenzene							
1	2.594	2.595	-0.001	168837123H	0.1000	0.1000	
2	2.835	2.836	-0.001	104378955H	0.1000	0.1000	
7 PCB-1248							
1	4.274	4.274	0.000	2948455H	0.1000	0.1006	
1	4.651	4.651	0.000	3445845H	0.1000	0.1043	
1	4.925	4.925	0.000	4190365H	0.1000	0.1031	
1	5.494	5.493	0.001	3942365H	0.1000	0.1014	
1	5.814	5.814	0.000	2617168H	0.1000	0.1027	
		Average of Peak Amounts =				0.1024	
2	5.834	5.835	-0.001	1507079H	0.1000	0.1036	
2	6.281	6.282	-0.001	1811851H	0.1000	0.1025	
2	6.492	6.495	-0.003	1472904H	0.1000	0.1015	
2	6.944	6.947	-0.003	1854346H	0.1000	0.1013	
2	7.468	7.469	-0.001	1399718H	0.1000	0.0999	
		Average of Peak Amounts =				0.1018	
						RPD = 0.64	
* 46 PCB-205 (IS)							
1	10.572	10.573	-0.001	114160104H	0.1000	0.1000	
2	12.064	12.064	-0.001	60278199H	0.1000	0.1000	

Reagents:

GCAR1248CALL2_00014 Amount Added: 1.00 Units: mL
PCBINT_00007 Amount Added: 0.01 Units: mL Run Reagent

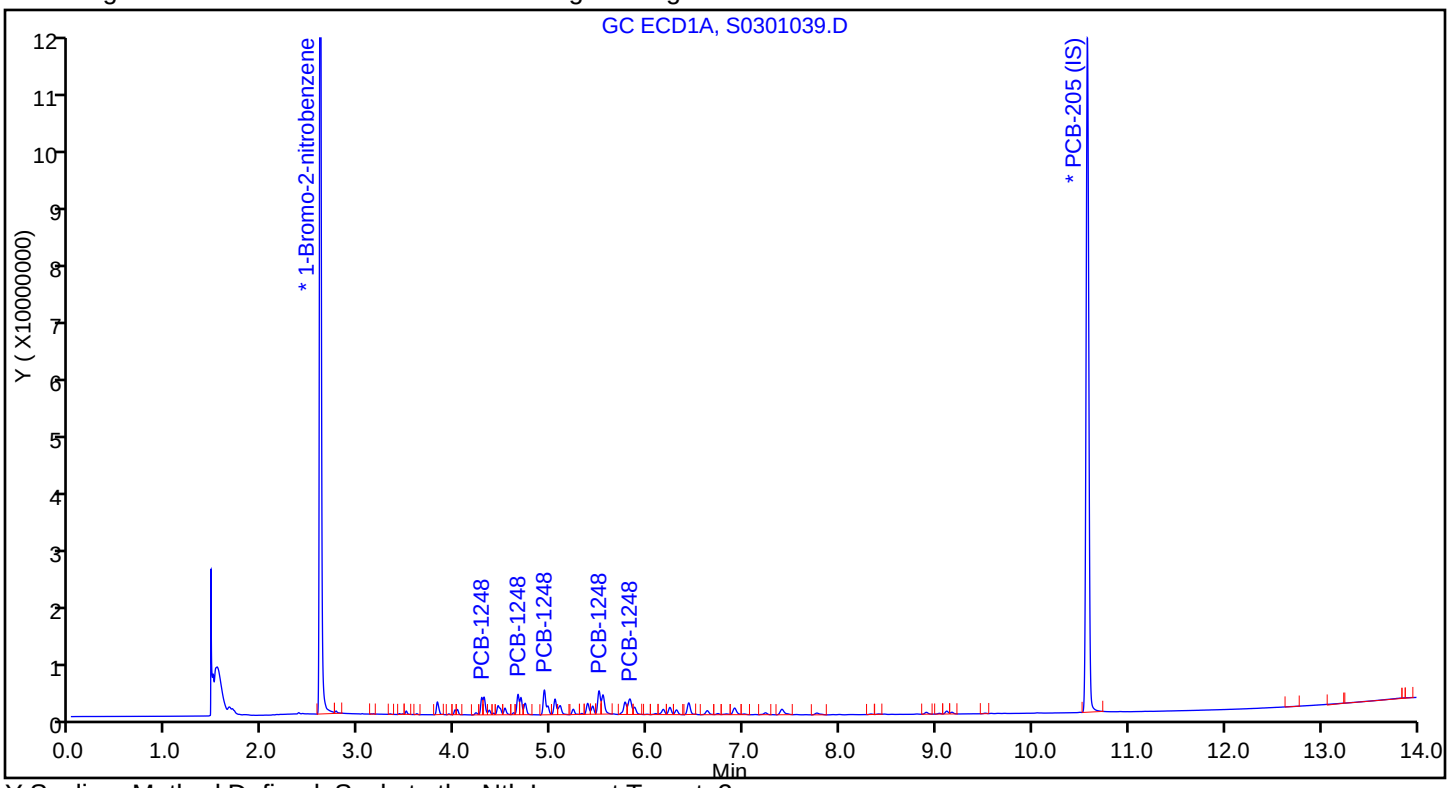
Report Date: 02-Mar-2018 05:56:38 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Pittsburgh

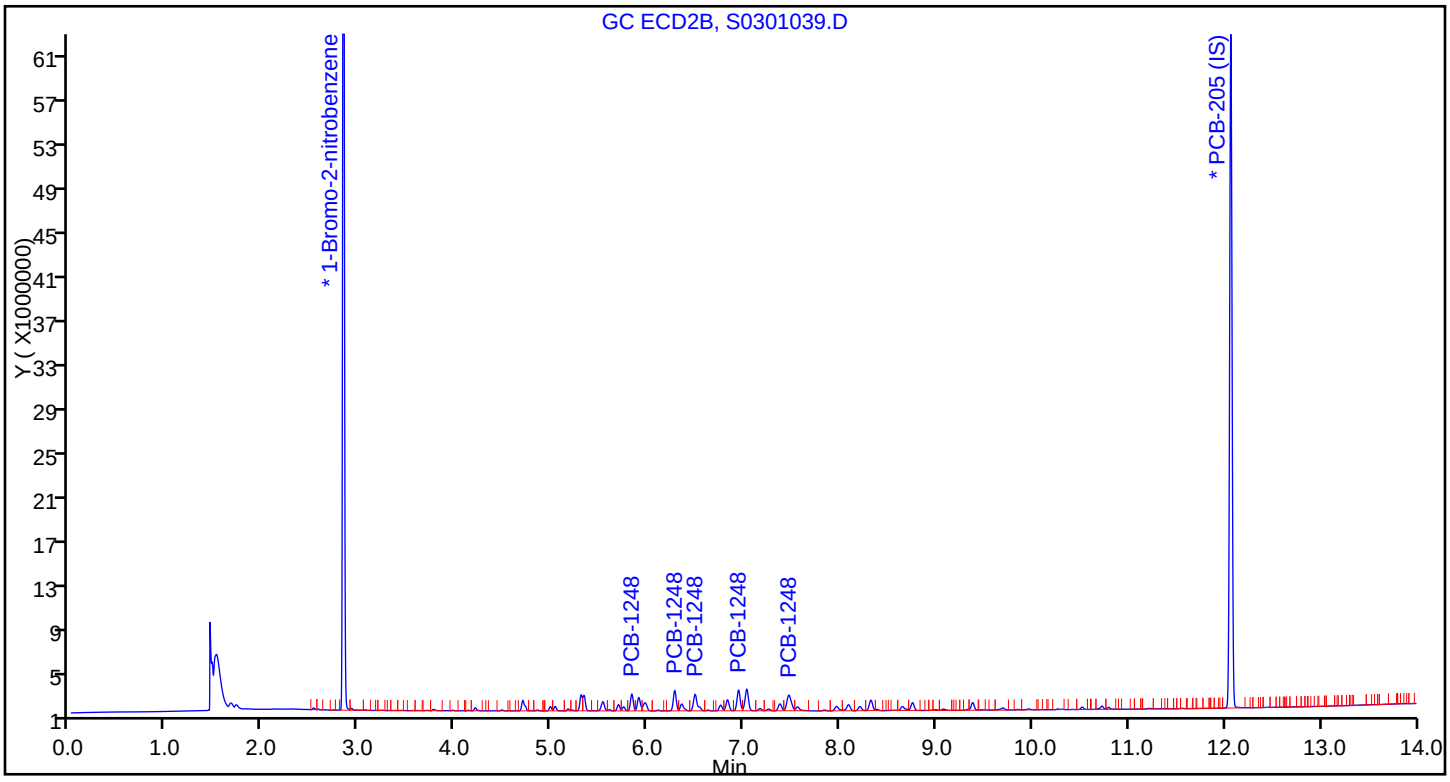
Data File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\S0301039.D

Injection Date:	01-Mar-2018 16:59:31	Instrument ID:	CHGC10		
Lims ID:	IC				
Client ID:					
Operator ID:		ALS Bottle#:	15	Worklist Smp#:	15
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	IS PCB_CHGC10DUAL	Limit Group:	GCS 8082A ICAL with IS		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\S0301040.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 01-Mar-2018 17:18:25 ALS Bottle#: 16 Worklist Smp#: 16
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0020692-016
Operator ID: Instrument ID: CHGC10
Sublist: chrom-IS PCB_CHGC10DUAL*sub24

Method: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\IS PCB_CHGC10DUAL.m
Limit Group: GCS 8082A ICAL with IS
Last Update: 02-Mar-2018 05:56:33 Calib Date: 01-Mar-2018 20:27:10
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\S0301050.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK021

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 1-Bromo-2-nitrobenzene							
1	2.594	2.595	-0.001	162042336H	0.1000	0.1000	
2	2.835	2.836	-0.001	100209901H	0.1000	0.1000	
7 PCB-1248							
1	4.273	4.274	-0.001	7347680H	0.2500	0.2613	
1	4.651	4.651	0.000	8423139H	0.2500	0.2656	
1	4.926	4.925	0.001	10303294H	0.2500	0.2641	
1	5.493	5.493	0.000	10121082H	0.2500	0.2713	
1	5.814	5.814	0.000	6617836H	0.2500	0.2706	
		Average of Peak Amounts =				0.2666	
2	5.836	5.835	0.001	3566502H	0.2500	0.2553	
2	6.282	6.282	0.000	4273311H	0.2500	0.2519	
2	6.493	6.495	-0.002	3547412H	0.2500	0.2547	
2	6.945	6.947	-0.002	4444109H	0.2500	0.2528	
2	7.469	7.469	0.000	3388611H	0.2500	0.2520	
		Average of Peak Amounts =				0.2533	
						RPD = 5.09	
* 46 PCB-205 (IS)							
1	10.573	10.573	0.000	107326314H	0.1000	0.1000	
2	12.064	12.064	0.000	56816583H	0.1000	0.1000	

Reagents:

GCAR1248CALL3_00014 Amount Added: 1.00 Units: mL
PCBINT_00007 Amount Added: 0.01 Units: mL Run Reagent

Report Date: 02-Mar-2018 05:56:35 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\S0301040.D

Injection Date: 01-Mar-2018 17:18:25 Instrument ID: CHGC10

Lims ID: IC

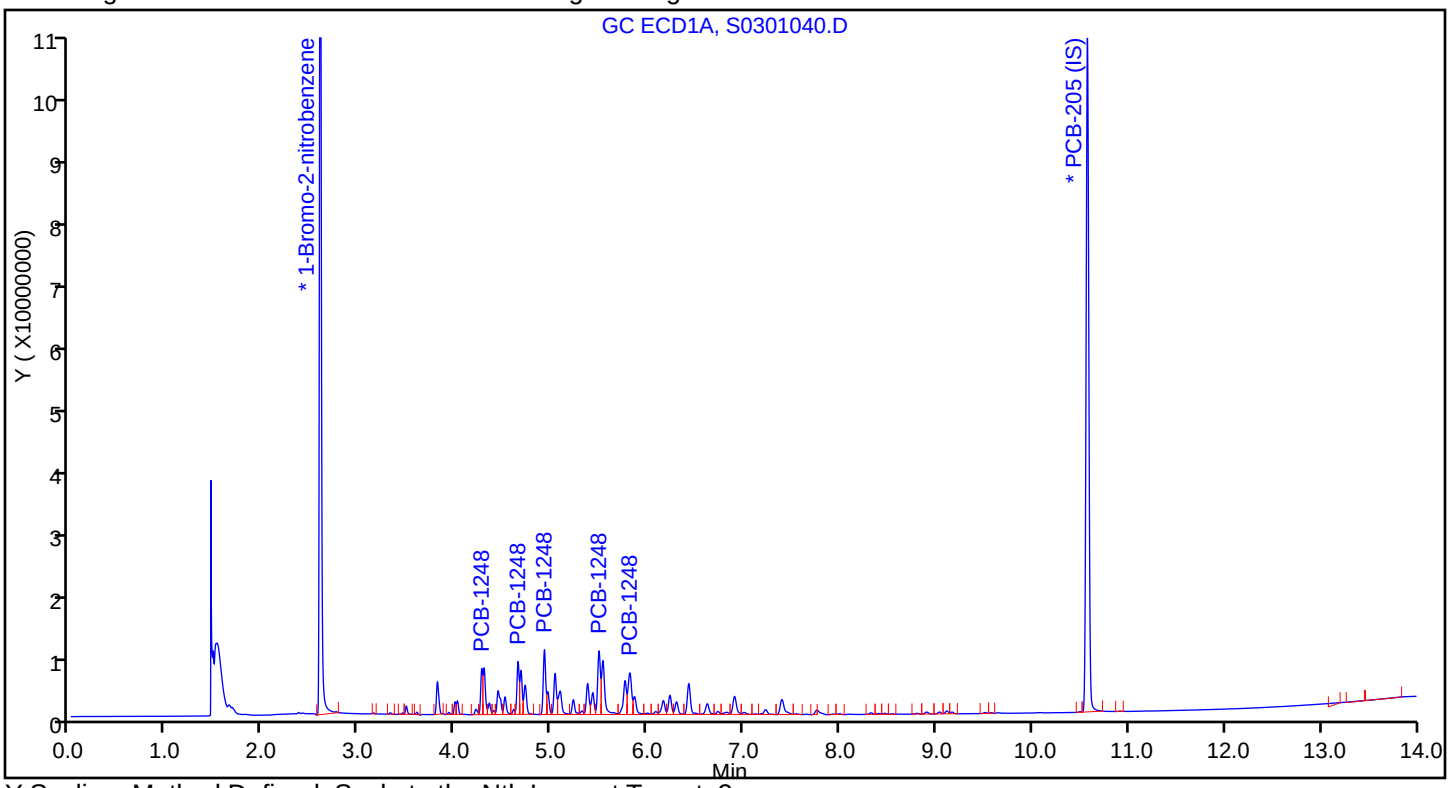
Client ID:

Operator ID: ALS Bottle#: 16 Worklist Smp#: 16

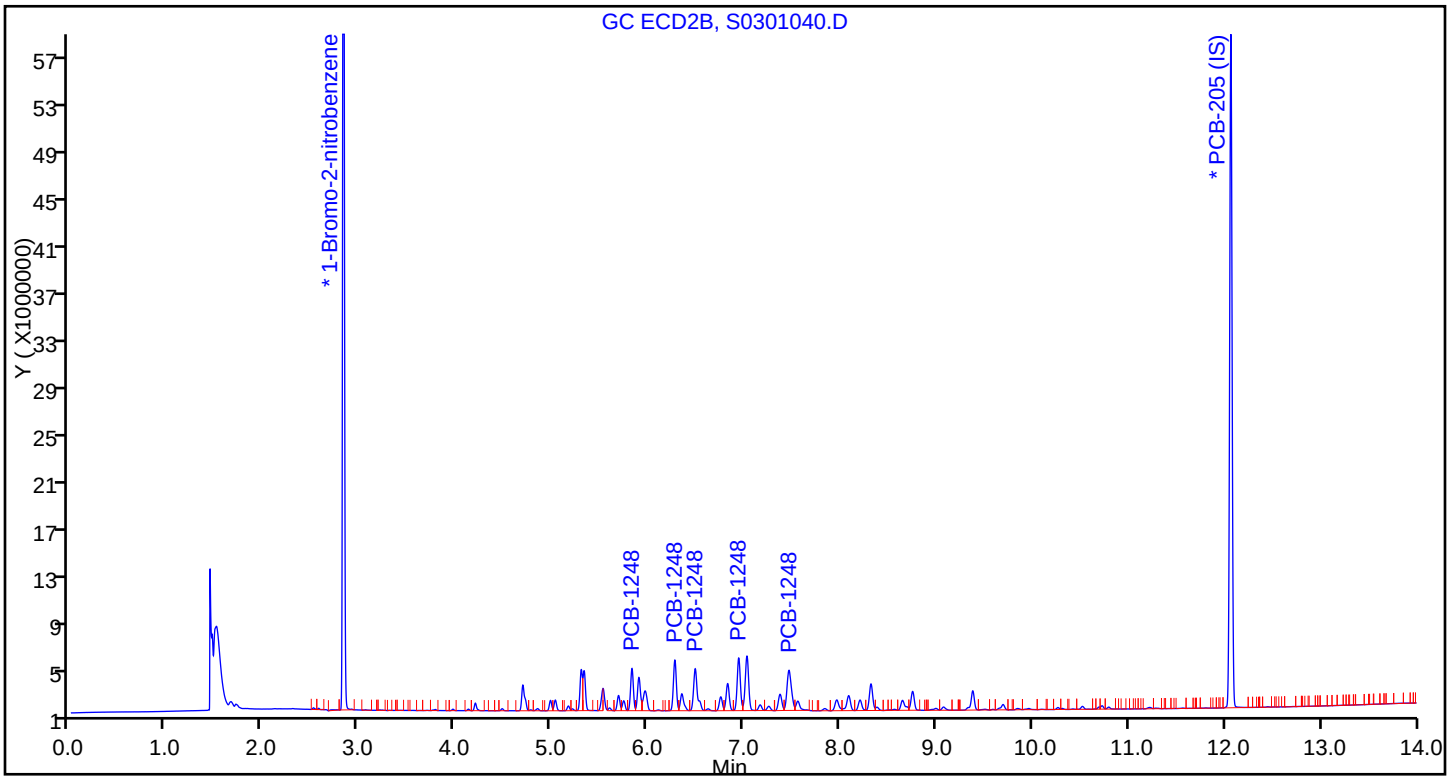
Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: IS PCB_CHGC10DUAL Limit Group: GCS 8082A ICAL with IS

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\S0301041.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 01-Mar-2018 17:37:17 ALS Bottle#: 17 Worklist Smp#: 17
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0020692-017
Operator ID: Instrument ID: CHGC10
Sublist: chrom-IS PCB_CHGC10DUAL*sub24

Method: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\IS PCB_CHGC10DUAL.m
Limit Group: GCS 8082A ICAL with IS
Last Update: 02-Mar-2018 05:56:31 Calib Date: 01-Mar-2018 20:27:10
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\S0301050.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK021

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 1-Bromo-2-nitrobenzene							
1	2.595	2.595	-0.001	167461519H	0.1000	0.1000	
2	2.835	2.836	-0.001	104063508H	0.1000	0.1000	
7 PCB-1248							
1	4.274	4.274	0.000	14301553H	0.5000	0.4921	
1	4.651	4.651	0.000	15775068H	0.5000	0.4813	
1	4.925	4.925	0.000	19515540H	0.5000	0.4840	
1	5.493	5.493	0.000	19834353H	0.5000	0.5144	
1	5.814	5.814	0.000	12986712H	0.5000	0.5139	
		Average of Peak Amounts =				0.4971	
2	5.835	5.835	0.000	6623619H	0.5000	0.4567	
2	6.282	6.282	0.000	8188817H	0.5000	0.4647	
2	6.495	6.495	0.000	6706071H	0.5000	0.4637	
2	6.947	6.947	0.000	8524385H	0.5000	0.4669	
2	7.469	7.469	0.000	6568976H	0.5000	0.4705	
		Average of Peak Amounts =				0.4645	
						RPD = 6.79	
* 46 PCB-205 (IS)							
1	10.574	10.573	0.001	118378572H	0.1000	0.1000	
2	12.065	12.064	0.001	61506367H	0.1000	0.1000	

Reagents:

GCAR1248CALL4_00019 Amount Added: 1.00 Units: mL
PCBINT_00007 Amount Added: 0.01 Units: mL Run Reagent

Report Date: 02-Mar-2018 05:56:32 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\S0301041.D

Injection Date: 01-Mar-2018 17:37:17 Instrument ID: CHGC10

Lims ID: IC

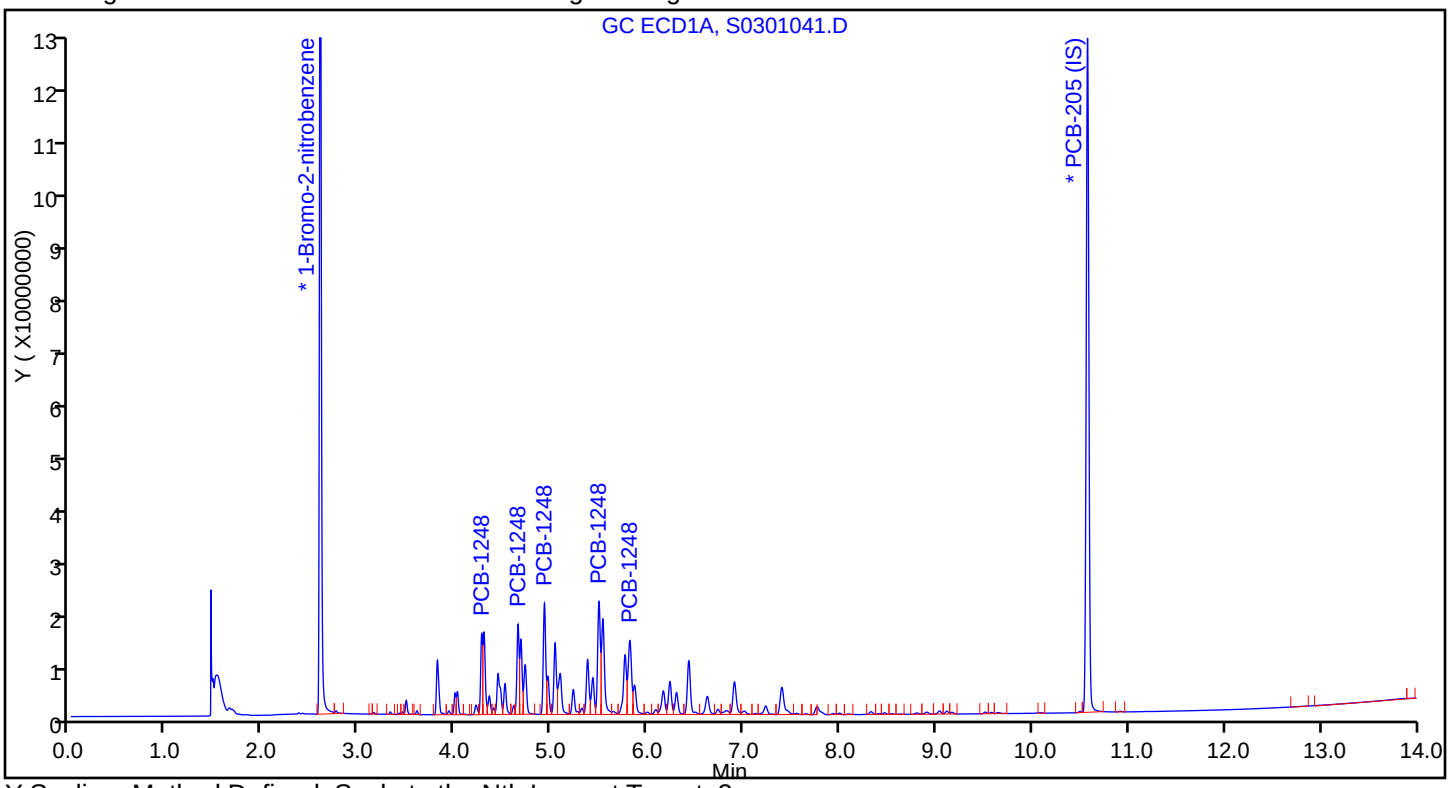
Client ID:

Operator ID: ALS Bottle#: 17 Worklist Smp#: 17

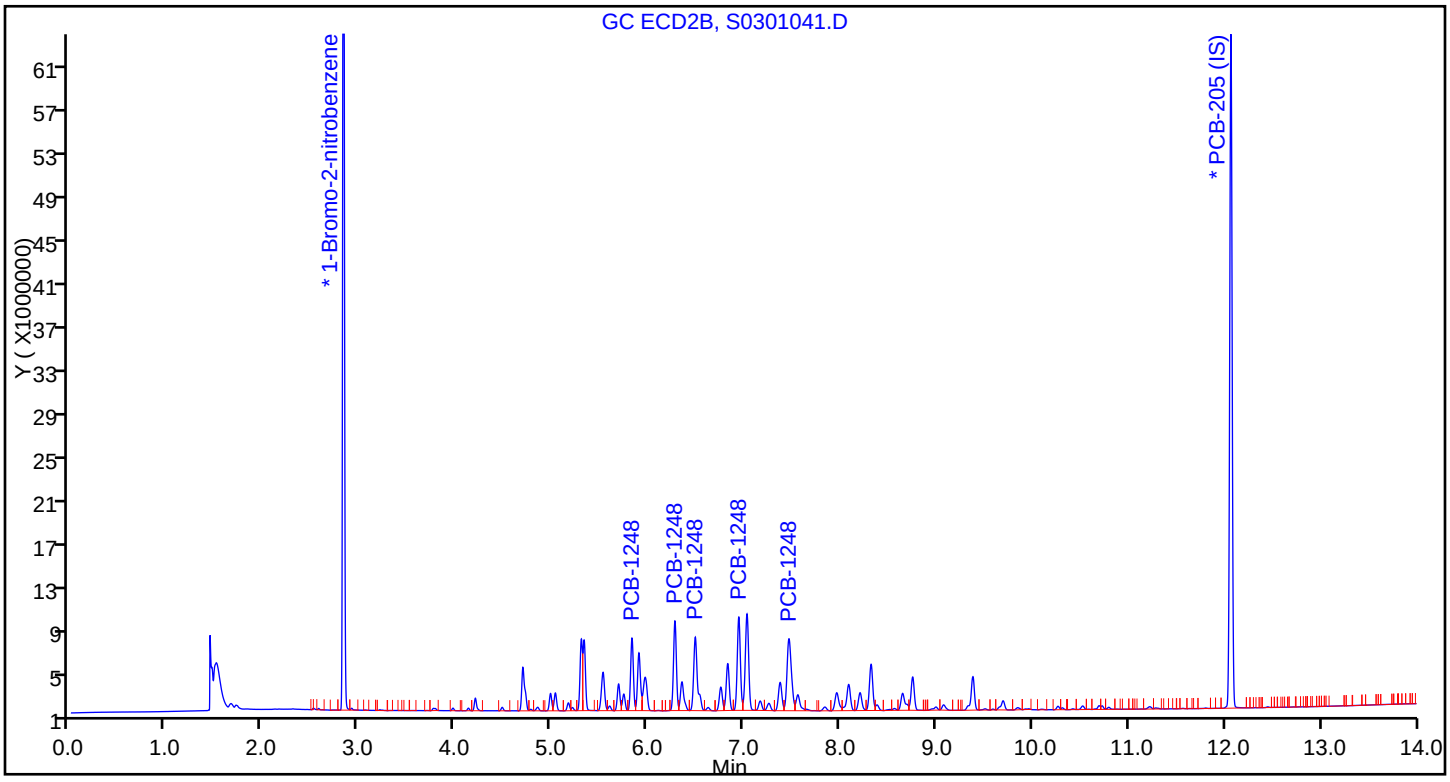
Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: IS PCB_CHGC10DUAL Limit Group: GCS 8082A ICAL with IS

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\S0301042.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 01-Mar-2018 17:56:09 ALS Bottle#: 18 Worklist Smp#: 18
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0020692-018
Operator ID: Instrument ID: CHGC10
Sublist: chrom-IS PCB_CHGC10DUAL*sub24

Method: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\IS PCB_CHGC10DUAL.m
Limit Group: GCS 8082A ICAL with IS
Last Update: 02-Mar-2018 05:56:28 Calib Date: 01-Mar-2018 20:27:10
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\S0301050.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK021

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 1-Bromo-2-nitrobenzene							
1	2.594	2.595	-0.001	165068445H	0.1000	0.1000	
2	2.836	2.836	0.000	102249613H	0.1000	0.1000	
7 PCB-1248							
1	4.272	4.274	-0.002	27756699H	1.00	0.9689	
1	4.650	4.651	-0.001	29775182H	1.00	0.9217	
1	4.924	4.925	-0.001	36843068H	1.00	0.9271	
1	5.491	5.493	-0.002	38179897H	1.00	1.00	
1	5.813	5.814	-0.001	25170515H	1.00	1.01	
		Average of Peak Amounts =				0.9665	
2	5.836	5.835	0.001	12652275H	1.00	0.8878	
2	6.281	6.282	-0.001	15699682H	1.00	0.9068	
2	6.494	6.495	-0.001	12997713H	1.00	0.9148	
2	6.946	6.947	-0.001	16552651H	1.00	0.9227	
2	7.468	7.469	-0.001	12682947H	1.00	0.9245	
		Average of Peak Amounts =				0.9113	
						RPD = 5.88	
* 46 PCB-205 (IS)							
1	10.572	10.573	0.000	111472668H	0.1000	0.1000	
2	12.065	12.064	0.001	58759530H	0.1000	0.1000	

Reagents:

GCAR1248CALL5_00014 Amount Added: 1.00 Units: mL
PCBINT_00007 Amount Added: 0.01 Units: mL Run Reagent

Report Date: 02-Mar-2018 05:56:29 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\S0301042.D

Injection Date: 01-Mar-2018 17:56:09 Instrument ID: CHGC10

Lims ID: IC

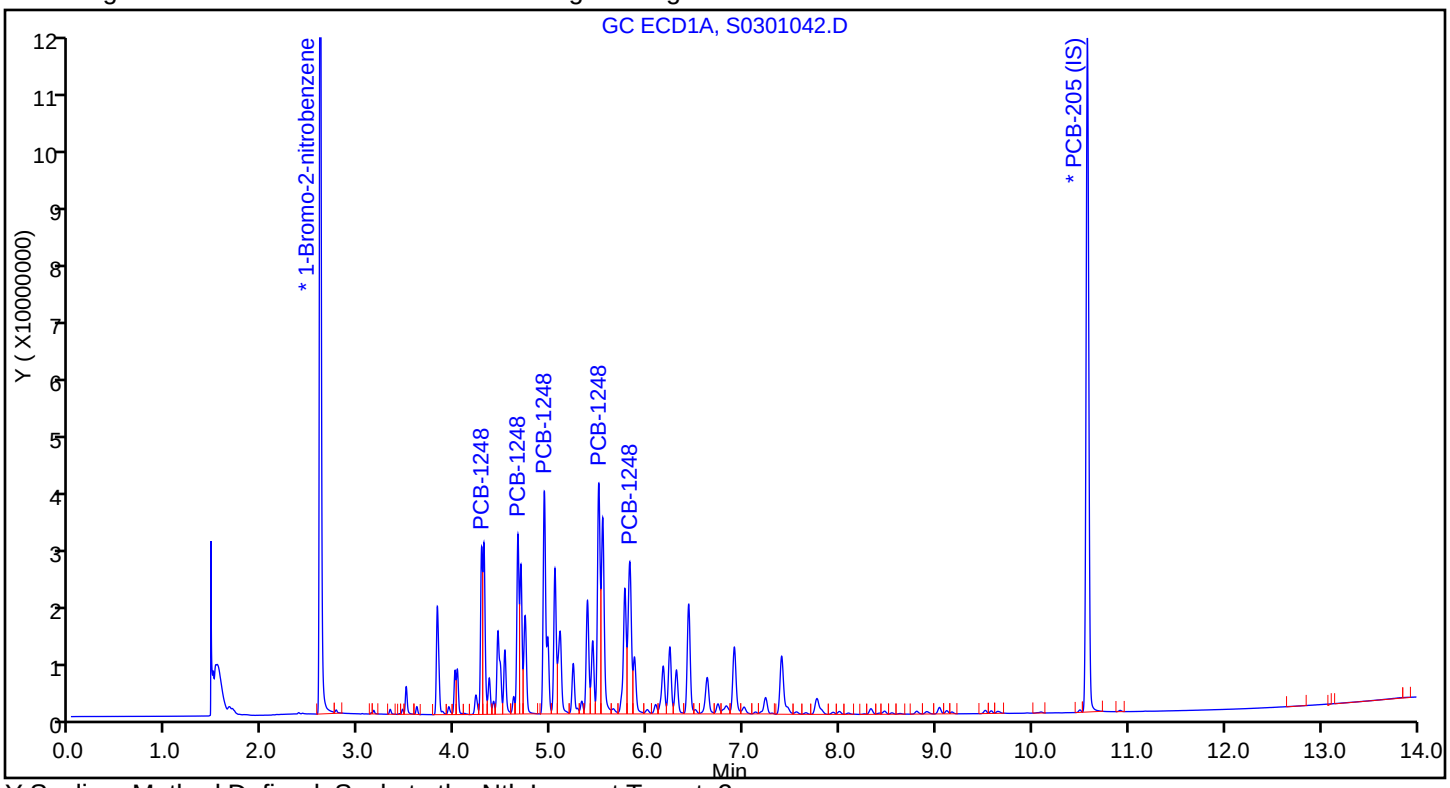
Client ID:

Operator ID: ALS Bottle#: 18 Worklist Smp#: 18

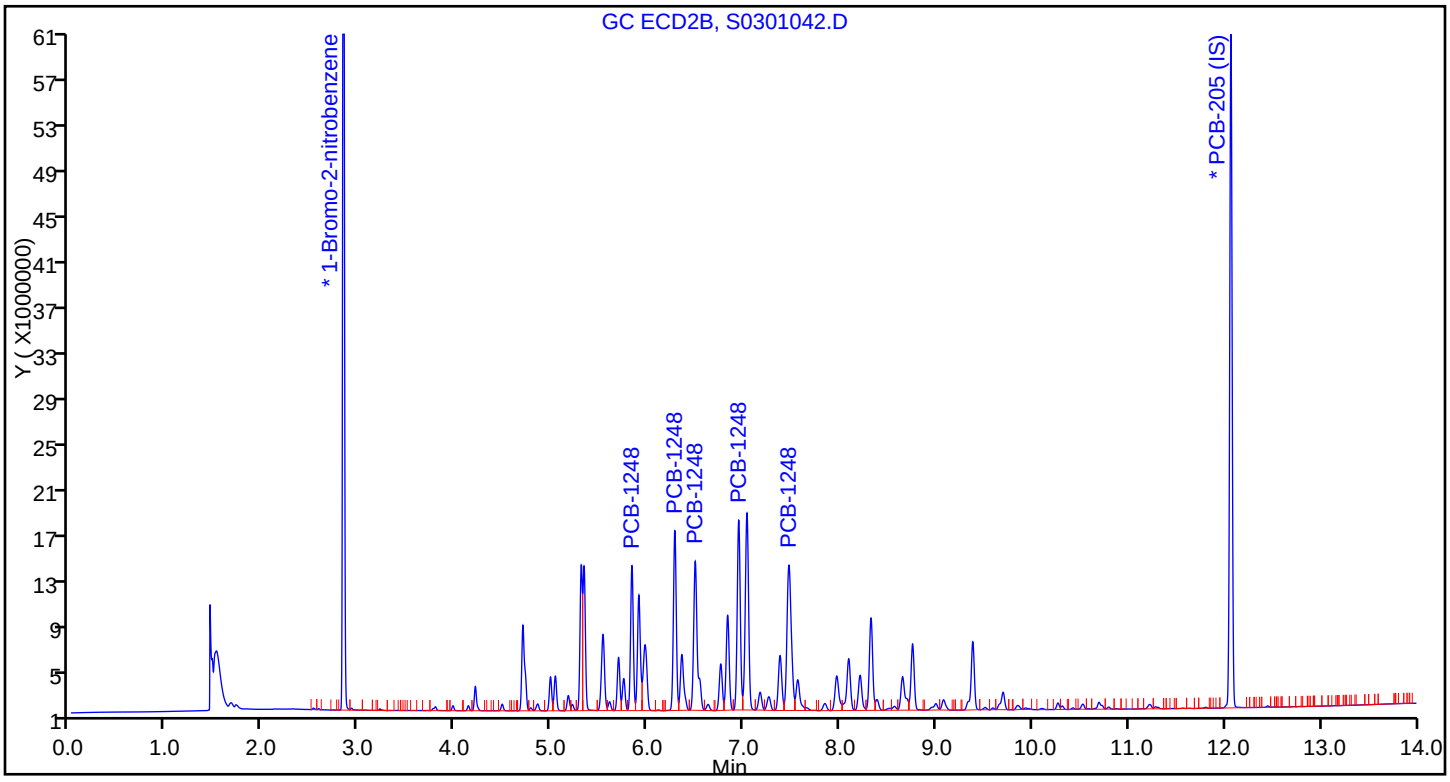
Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: IS PCB_CHGC10DUAL Limit Group: GCS 8082A ICAL with IS

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\S0301043.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 01-Mar-2018 18:15:01 ALS Bottle#: 19 Worklist Smp#: 19
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0020692-019
Operator ID: Instrument ID: CHGC10
Sublist: chrom-IS PCB_CHGC10DUAL*sub24

Method: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\IS PCB_CHGC10DUAL.m
Limit Group: GCS 8082A ICAL with IS
Last Update: 02-Mar-2018 05:56:25 Calib Date: 01-Mar-2018 20:27:10
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\S0301050.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK021

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 1-Bromo-2-nitrobenzene							
1	2.594	2.595	-0.001	167664512H	0.1000	0.1000	
2	2.835	2.836	-0.001	104281172H	0.1000	0.1000	
7 PCB-1248							
1	4.272	4.274	-0.002	109651723H	4.00	3.77	
1	4.650	4.651	-0.001	109613996H	4.00	3.34	
1	4.924	4.925	-0.001	135080439H	4.00	3.35	
1	5.489	5.493	-0.004	148621799H	4.00	3.85	
1	5.812	5.814	-0.002	99669350H	4.00	3.94	
		Average of Peak Amounts =				3.65	
2	5.835	5.835	0.000	49272416H	4.00	3.39	
2	6.281	6.282	-0.001	60975855H	4.00	3.45	
2	6.493	6.495	-0.002	50892287H	4.00	3.51	
2	6.945	6.947	-0.002	65781286H	4.00	3.60	
2	7.467	7.469	-0.002	52125879H	4.00	3.73	
		Average of Peak Amounts =				3.54	
						RPD = 3.16	
* 46 PCB-205 (IS)							
1	10.572	10.573	-0.001	113322244H	0.1000	0.1000	
2	12.064	12.064	0.000	59197212H	0.1000	0.1000	

Reagents:

GCAR1248CALL7_00005 Amount Added: 1.00 Units: mL
PCBINT_00007 Amount Added: 0.01 Units: mL Run Reagent

Report Date: 02-Mar-2018 05:56:26 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\S0301043.D

Injection Date: 01-Mar-2018 18:15:01 Instrument ID: CHGC10

Lims ID: IC

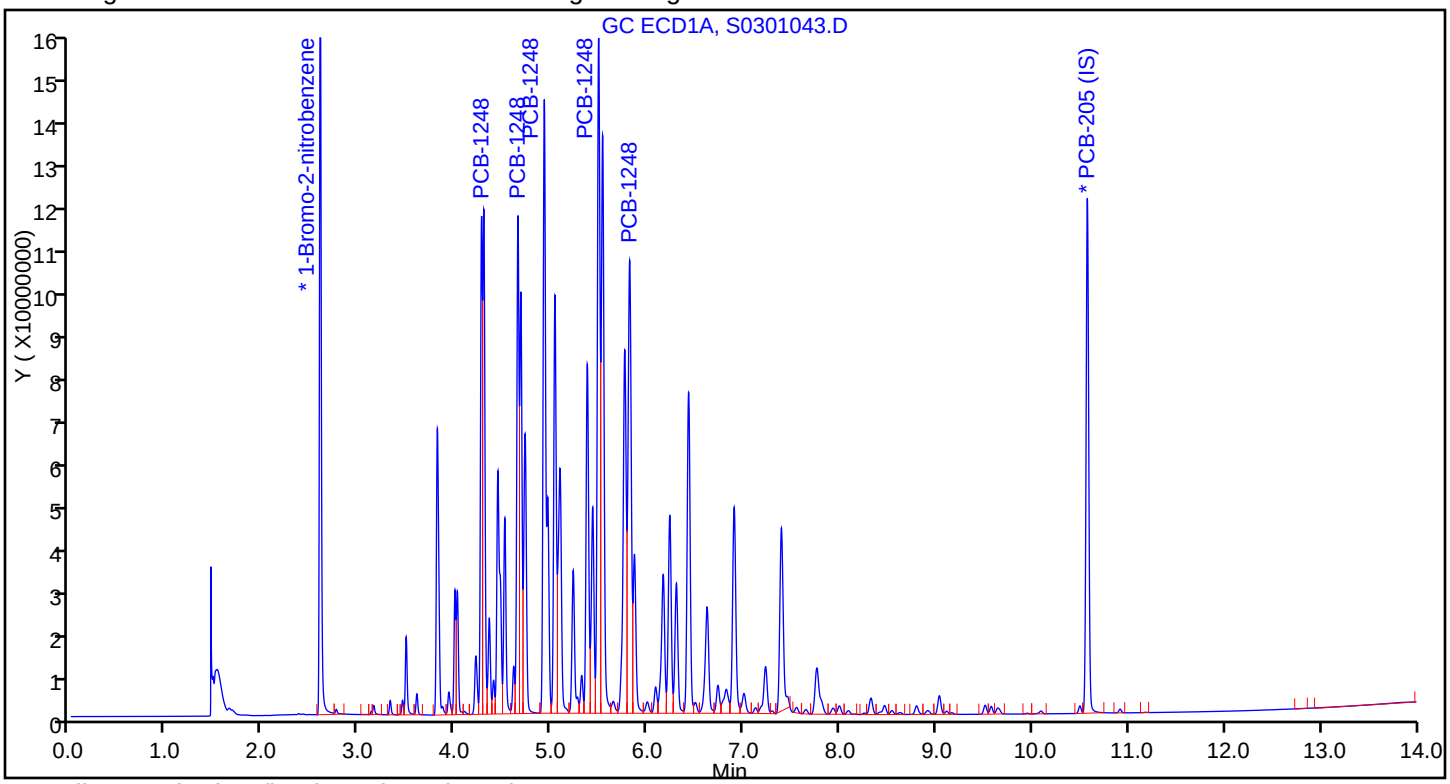
Client ID:

Operator ID: ALS Bottle#: 19 Worklist Smp#: 19

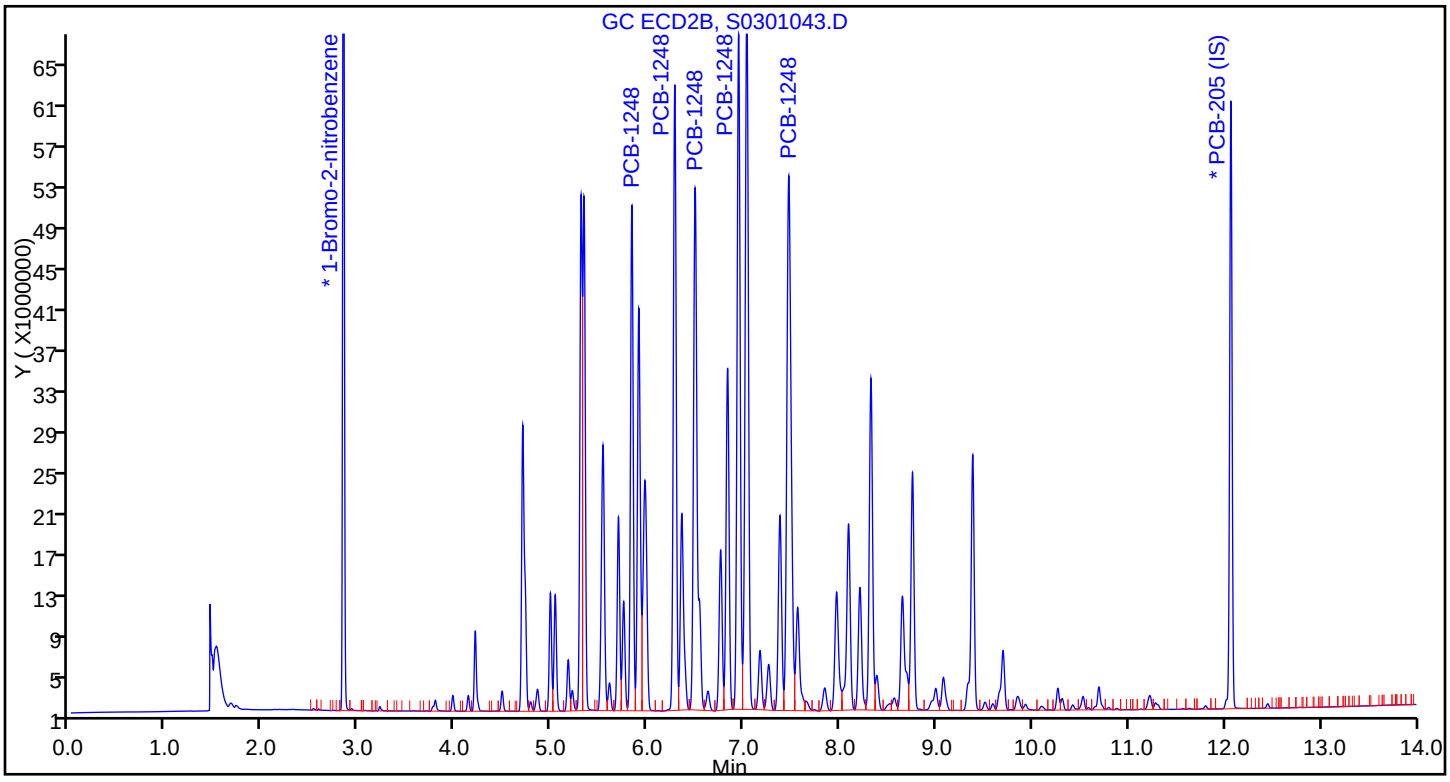
Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: IS PCB_CHGC10DUAL Limit Group: GCS 8082A ICAL with IS

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Pittsburgh Job No.: 180-78164-1 Analy Batch No.: 238236

SDG No.:

Instrument ID: CHGC10 GC Column: RTX-CLP1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/01/2018 18:33 Calibration End Date: 03/01/2018 20:27 Calibration ID: 37443

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 180-238236/20	S0301044.D
Level 2	IC 180-238236/21	S0301045.D
Level 3	IC 180-238236/22	S0301046.D
Level 4	ICIS 180-238236/23	S0301047.D
Level 5	IC 180-238236/24	S0301048.D
Level 6	IC 180-238236/25	S0301049.D
Level 7	IC 180-238236/26	S0301050.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
PCB-1016 Peak 1	0.0196 0.0142	0.0188 0.0140	0.0170	0.0162	0.0151	Ave		0.0164				13.3		20.0			
PCB-1016 Peak 2	0.0299 0.0206	0.0271 0.0196	0.0254	0.0240	0.0218	Ave		0.0240				15.4		20.0			
PCB-1016 Peak 3	0.0354 0.0344	0.0354 0.0338	0.0365	0.0361	0.0364	Ave		0.0354				2.9		20.0			
PCB-1016 Peak 4	0.0218 0.0192	0.0215 0.0191	0.0212	0.0207	0.0206	Ave		0.0206				5.2		20.0			
PCB-1016 Peak 5	0.0202 0.0157	0.0187 0.0156	0.0178	0.0172	0.0170	Ave		0.0175				9.2		20.0			
PCB-1260 Peak 1	0.0442 0.0360	0.0435 0.0324	0.0384	0.0376	0.0342	Ave		0.0380				11.7		20.0			
PCB-1260 Peak 2	0.0642 0.0525	0.0623 0.0476	0.0572	0.0559	0.0500	Ave		0.0557				11.1		20.0			
PCB-1260 Peak 3	0.0373 0.0414	0.0460 0.0379	0.0424	0.0423	0.0390	Ave		0.0409				7.5		20.0			
PCB-1260 Peak 4	0.0828 0.0740	0.0819 0.0693	0.0790	0.0778	0.0709	Ave		0.0765				6.9		20.0			
PCB-1260 Peak 5	0.0472 0.0411	0.0456 0.0403	0.0437	0.0422	0.0399	Ave		0.0429				6.5		20.0			
Tetrachloro-m-xylene	1.1609 1.0708	1.1287 1.0442	1.1208	1.1353	1.0854	Ave		1.1066				3.7		20.0			
DCB Decachlorobiphenyl (Surr)	1.0225 0.8094	0.9907 0.7996	0.9136	0.8602	0.7915	Ave		0.8839				10.7		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Pittsburgh Job No.: 180-78164-1 Analy Batch No.: 238236

SDG No.:

Instrument ID: CHGC10 GC Column: RTX-CLP1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/01/2018 18:33 Calibration End Date: 03/01/2018 20:27 Calibration ID: 37443

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 180-238236/20	S0301044.D
Level 2	IC 180-238236/21	S0301045.D
Level 3	IC 180-238236/22	S0301046.D
Level 4	ICIS 180-238236/23	S0301047.D
Level 5	IC 180-238236/24	S0301048.D
Level 6	IC 180-238236/25	S0301049.D
Level 7	IC 180-238236/26	S0301050.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
PCB-1016 Peak 1	BNB	Ave	364444 48226266	1664473 93304714	6024726	13418908	26697942	0.0100 2.00	0.0500 4.00	0.200	0.500	1.00
PCB-1016 Peak 2	BNB	Ave	556026 69732794	2395601 130100605	9019399	19907896	38544005	0.0100 2.00	0.0500 4.00	0.200	0.500	1.00
PCB-1016 Peak 3	BNB	Ave	658158 116523901	3130783 224605905	12941414	29941219	64404369	0.0100 2.00	0.0500 4.00	0.200	0.500	1.00
PCB-1016 Peak 4	BNB	Ave	405757 65114999	1896628 126649874	7525359	17202653	36502465	0.0100 2.00	0.0500 4.00	0.200	0.500	1.00
PCB-1016 Peak 5	BNB	Ave	374760 53199226	1650691 103991260	6315799	14280668	30108486	0.0100 2.00	0.0500 4.00	0.200	0.500	1.00
PCB-1260 Peak 1	PCB205	Ave	596804 78955095	2464029 158527782	9609859	21197231	46181758	0.0100 2.00	0.0500 4.00	0.200	0.500	1.00
PCB-1260 Peak 2	PCB205	Ave	867457 115152127	3527234 232935620	14286618	31526742	67521304	0.0100 2.00	0.0500 4.00	0.200	0.500	1.00
PCB-1260 Peak 3	PCB205	Ave	504100 90944254	2603284 185526147	10594740	23884230	52601771	0.0100 2.00	0.0500 4.00	0.200	0.500	1.00
PCB-1260 Peak 4	PCB205	Ave	1117975 162268173	4640010 339367470	19734601	43923306	95754714	0.0100 2.00	0.0500 4.00	0.200	0.500	1.00
PCB-1260 Peak 5	PCB205	Ave	637498 90226075	2583636 197400773	10927087	23825178	53835937	0.0100 2.00	0.0500 4.00	0.200	0.500	1.00
Tetrachloro-m-xylene	BNB	Ave	1079497 181464925	4989925 346996189	19884143	47133759	96113153	0.000500 0.100	0.00250 0.200	0.0100	0.0250	0.0500
DCB Decachlorobiphenyl (Surr)	PCB205	Ave	690603 88793916	2804672 195822325	11417373	24267529	53441003	0.000500 0.100	0.00250 0.200	0.0100	0.0250	0.0500

Curve Type Legend:
Ave = Average ISTD by Height

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\S0301044.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 01-Mar-2018 18:33:54 ALS Bottle#: 20 Worklist Smp#: 20
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0020692-020
Operator ID: Instrument ID: CHGC10
Sublist: chrom-IS PCB_CHGC10DUAL*sub25

Method: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\IS PCB_CHGC10DUAL.m
Limit Group: GCS 8082A ICAL with IS
Last Update: 02-Mar-2018 05:56:22 Calib Date: 01-Mar-2018 20:27:10
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\S0301050.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK021

First Level Reviewer: oravecj Date: 02-Mar-2018 05:05:39

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 1-Bromo-2-nitrobenzene							
1	2.594	2.595	-0.001	185975729H	0.1000	0.1000	
2	2.835	2.836	-0.001	114455315H	0.1000	0.1000	
$ 2 Tetrachloro-m-xylene							
1	3.184	3.186	-0.002	1079497H	0.000500	0.000525	
2	3.677	3.679	-0.002	528371H	0.000500	0.000516	
						RPD = 1.68	
6 PCB-1016							
1	3.487	3.489	-0.002	364444H	0.0100	0.0119	
1	3.812	3.813	-0.001	556026H	0.0100	0.0124	
1	4.298	4.297	0.001	658158H	0.0100	0.0100	
1	4.444	4.443	0.001	405757H	0.0100	0.0106	
1	4.926	4.926	0.000	374760H	0.0100	0.0115	
		Average of Peak Amounts =				0.0113	
2	5.039	5.038	0.001	132672H	0.0100	0.0129	
2	5.338	5.338	0.000	367191H	0.0100	0.0118	
2	5.537	5.538	-0.001	221684H	0.0100	0.0125	
2	6.281	6.281	0.000	180134H	0.0100	0.0126	
2	6.492	6.493	-0.001	146852H	0.0100	0.0123	
		Average of Peak Amounts =				0.0124	
						RPD = 9.40	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
9 PCB-1260							
1	6.731	6.730	0.001	596804H	0.0100	0.0116	
1	7.225	7.222	0.003	867457H	0.0100	0.0115	
1	7.762	7.755	0.007	504100H	0.0100	0.009125	
1	9.033	9.032	0.001	1117975H	0.0100	0.0108	
1	9.510	9.508	0.002	637498H	0.0100	0.0110	
		Average of Peak Amounts =				0.0108	
2	9.077	9.075	0.002	389255H	0.0100	0.0122	
2	9.841	9.841	0.000	272619H	0.0100	0.0120	
2	10.311	10.311	0.000	295132H	0.0100	0.0119	
2	10.692	10.693	-0.001	652781H	0.0100	0.0112	
2	11.225	11.226	-0.001	370923H	0.0100	0.0114	
		Average of Peak Amounts =				0.0117	
						RPD = 8.12	
* 46 PCB-205 (IS)							
1	10.571	10.573	-0.002	135081267H	0.1000	0.1000	
2	12.063	12.064	-0.001	71982986H	0.1000	0.1000	
$ 12 DCB Decachlorobiphenyl (Surr)							
1	11.178	11.178	0.000	690603H	0.000500	0.000578	
2	12.777	12.779	-0.002	367776H	0.000500	0.000606	
						RPD = 4.61	

Reagents:

GCAR1660CALL1_00023	Amount Added:	1.00	Units: mL	
PCBINT_00007	Amount Added:	0.01	Units: mL	Run Reagent

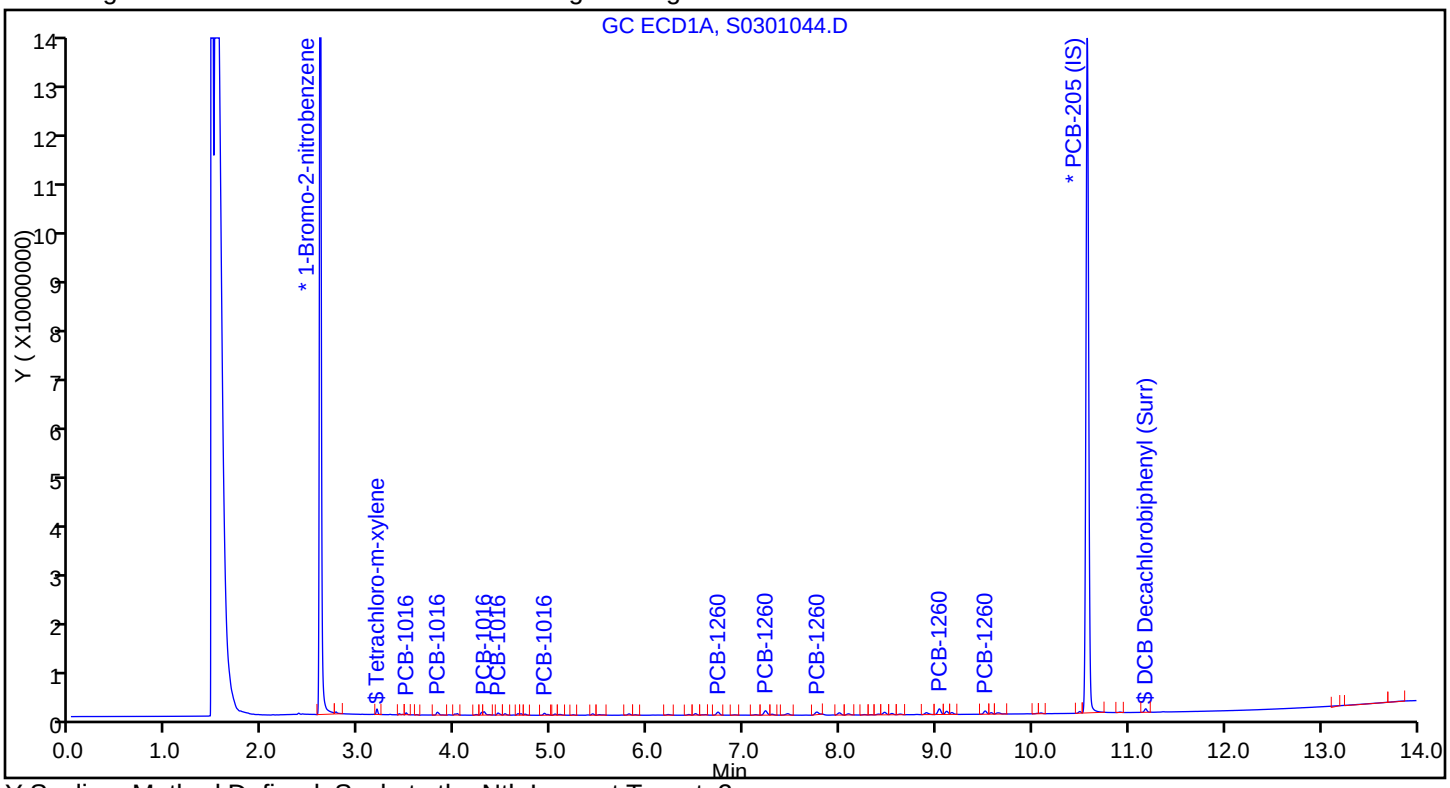
Report Date: 02-Mar-2018 05:56:23 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Pittsburgh

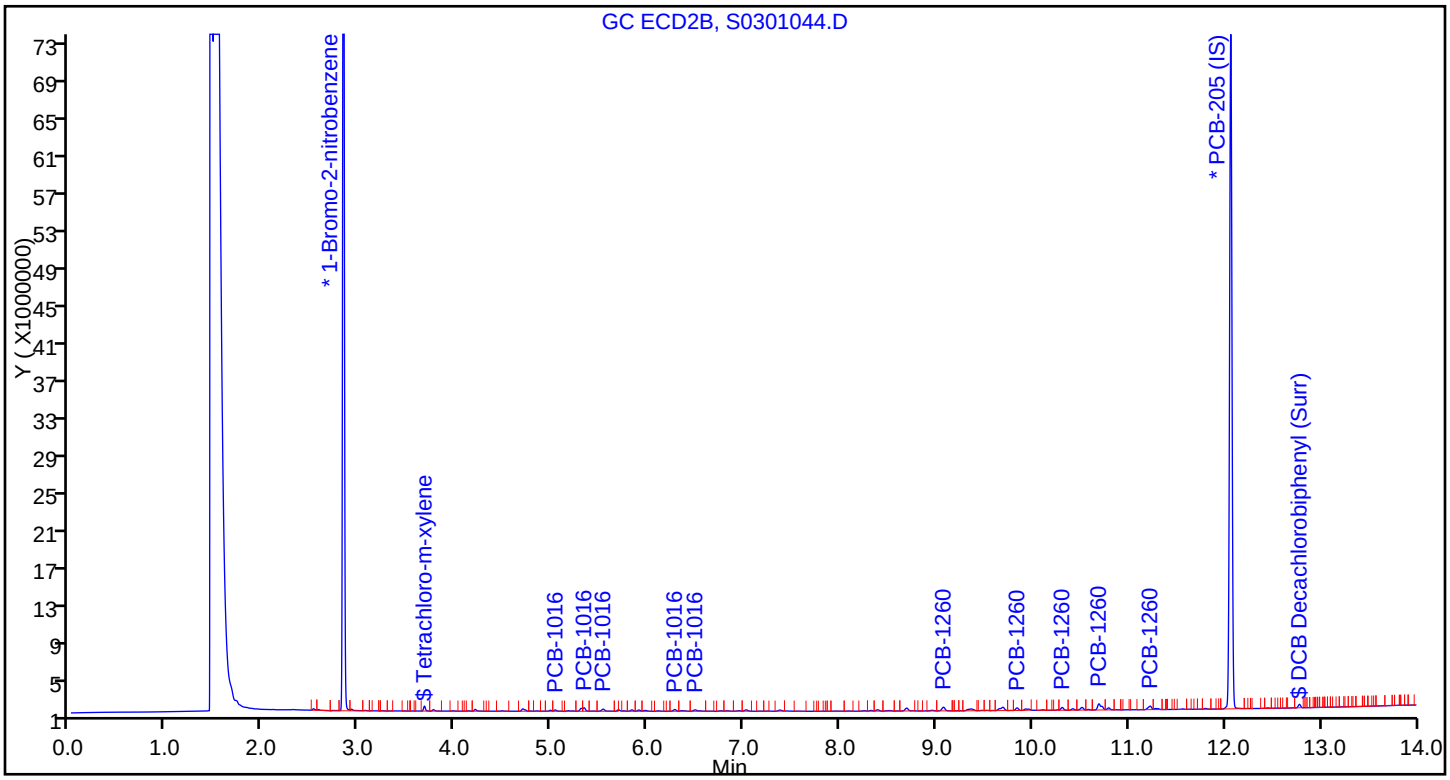
Data File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\S0301044.D

Injection Date:	01-Mar-2018 18:33:54	Instrument ID:	CHGC10		
Lims ID:	IC				
Client ID:					
Operator ID:		ALS Bottle#:	20	Worklist Smp#:	20
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	IS PCB_CHGC10DUAL	Limit Group:	GCS 8082A ICAL with IS		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\S0301045.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 01-Mar-2018 18:52:48 ALS Bottle#: 21 Worklist Smp#: 21
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0020692-021
Operator ID: Instrument ID: CHGC10
Sublist: chrom-IS PCB_CHGC10DUAL*sub25

Method: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\IS PCB_CHGC10DUAL.m
Limit Group: GCS 8082A ICAL with IS
Last Update: 02-Mar-2018 05:56:19 Calib Date: 01-Mar-2018 20:27:10
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\S0301050.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK021

First Level Reviewer: oravecj Date: 02-Mar-2018 05:09:48

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 1-Bromo-2-nitrobenzene							
1	2.595	2.595	0.000	176837862H	0.1000	0.1000	
2	2.836	2.836	0.000	109923688H	0.1000	0.1000	
$ 2 Tetrachloro-m-xylene							
1	3.185	3.186	-0.001	4989925H	0.002500	0.002550	
2	3.678	3.679	-0.001	2377381H	0.002500	0.002416	
						RPD = 5.37	
6 PCB-1016							
1	3.488	3.489	-0.001	1664473H	0.0500	0.0573	
1	3.813	3.813	0.000	2395601H	0.0500	0.0563	
1	4.298	4.297	0.001	3130783H	0.0500	0.0500	
1	4.443	4.443	0.000	1896628H	0.0500	0.0521	
1	4.926	4.926	0.000	1650691H	0.0500	0.0535	
		Average of Peak Amounts =				0.0539	
2	5.039	5.038	0.001	560394H	0.0500	0.0568	
2	5.338	5.338	0.000	1490691H	0.0500	0.0499	
2	5.537	5.538	-0.001	923572H	0.0500	0.0543	
2	6.282	6.281	0.001	750194H	0.0500	0.0545	
2	6.495	6.493	0.002	619526H	0.0500	0.0539	
		Average of Peak Amounts =				0.0539	
						RPD = 0.07	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
9 PCB-1260							
1	6.730	6.730	0.000	2464029H	0.0500	0.0572	
1	7.224	7.222	0.002	3527234H	0.0500	0.0560	
1	7.758	7.755	0.003	2603284H	0.0500	0.0562	
1	9.032	9.032	0.000	4640010H	0.0500	0.0535	
1	9.509	9.508	0.001	2583636H	0.0500	0.0532	
		Average of Peak Amounts =				0.0552	
2	9.076	9.075	0.001	1505067H	0.0500	0.0539	
2	9.842	9.841	0.001	1076584H	0.0500	0.0541	
2	10.311	10.311	0.000	1140223H	0.0500	0.0524	
2	10.693	10.693	0.000	2570726H	0.0500	0.0505	
2	11.226	11.226	0.000	1443255H	0.0500	0.0507	
		Average of Peak Amounts =				0.0523	
						RPD = 5.43	
* 46 PCB-205 (IS)							
1	10.573	10.573	0.000	113241663H	0.1000	0.1000	
2	12.065	12.064	0.000	63010699H	0.1000	0.1000	
$ 12 DCB Decachlorobiphenyl (Surr)							
1	11.179	11.178	0.001	2804672H	0.002500	0.002802	
2	12.779	12.779	0.000	1467154H	0.002500	0.002760	
						RPD = 1.50	

Reagents:

GCAR1660CALL2_00017	Amount Added: 1.00	Units: mL	
PCBINT_00007	Amount Added: 0.01	Units: mL	Run Reagent

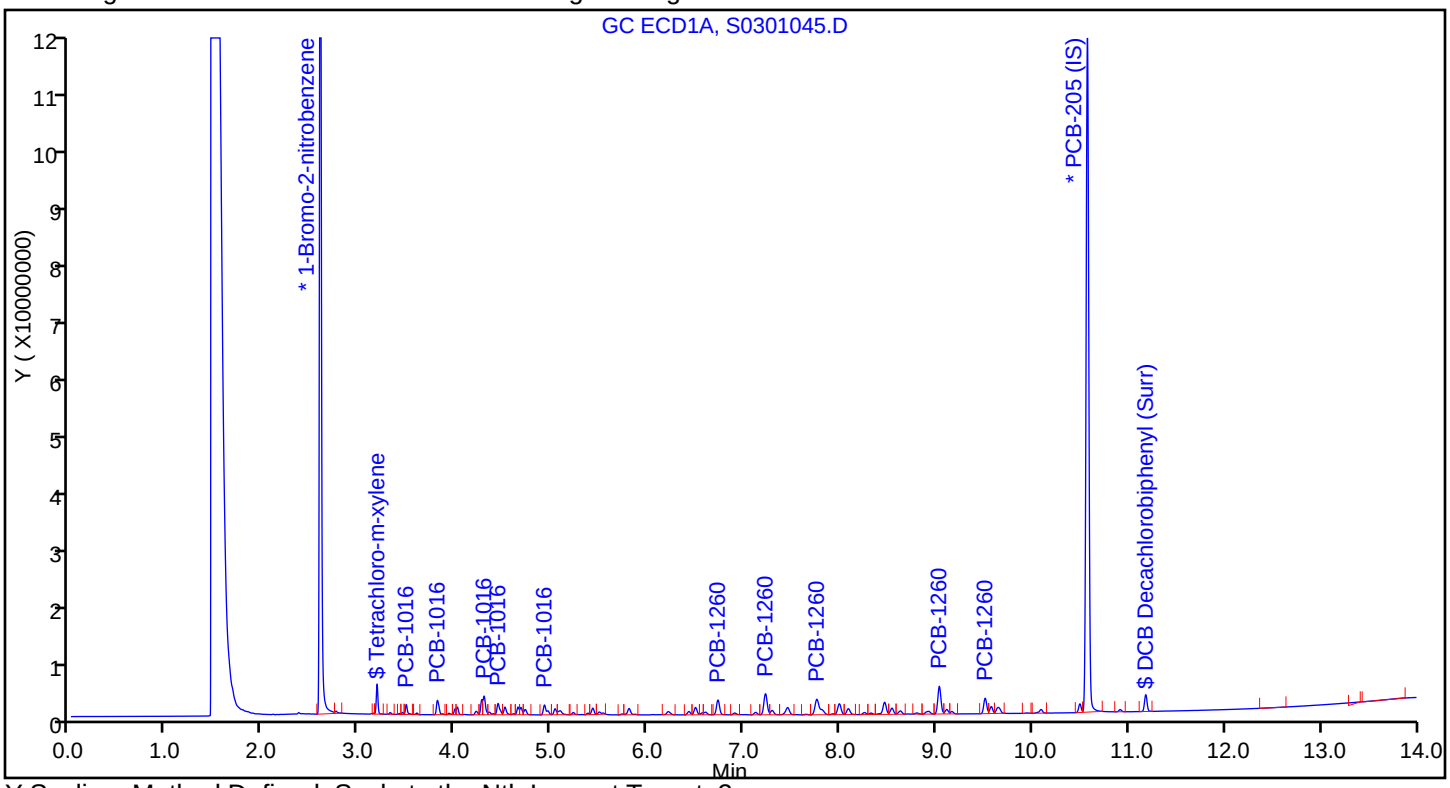
Report Date: 02-Mar-2018 05:56:20 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Pittsburgh

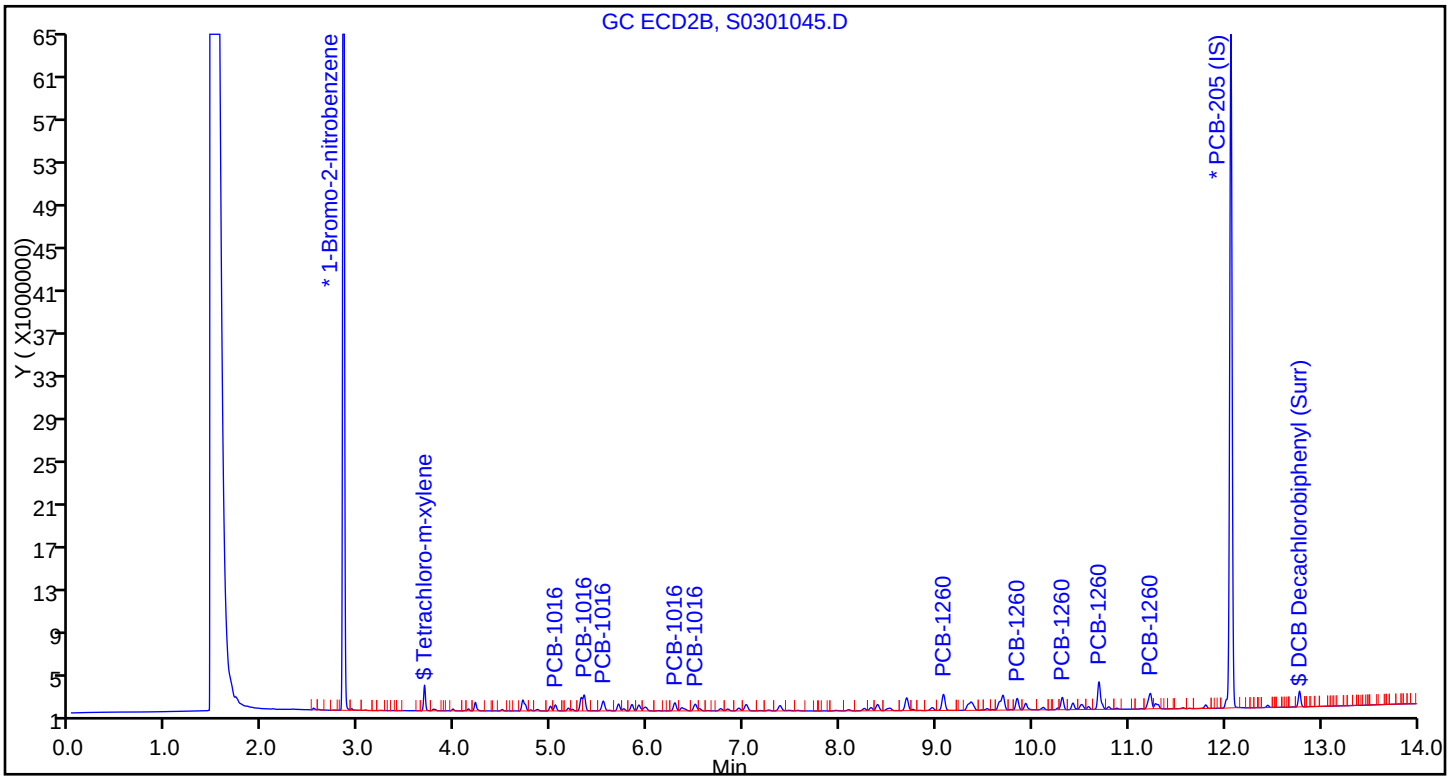
Data File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\S0301045.D

Injection Date:	01-Mar-2018 18:52:48	Instrument ID:	CHGC10		
Lims ID:	IC				
Client ID:					
Operator ID:		ALS Bottle#:	21	Worklist Smp#:	21
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	IS PCB_CHGC10DUAL	Limit Group:	GCS 8082A ICAL with IS		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\S0301046.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 01-Mar-2018 19:11:39 ALS Bottle#: 22 Worklist Smp#: 22
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0020692-022
Operator ID: Instrument ID: CHGC10
Sublist: chrom-IS PCB_CHGC10DUAL*sub25

Method: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\IS PCB_CHGC10DUAL.m
Limit Group: GCS 8082A ICAL with IS
Last Update: 02-Mar-2018 05:56:15 Calib Date: 01-Mar-2018 20:27:10
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\S0301050.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK021

First Level Reviewer: oravecj Date: 02-Mar-2018 05:10:00

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 1-Bromo-2-nitrobenzene							
1	2.594	2.595	-0.001	177416493H	0.1000	0.1000	
2	2.836	2.836	0.000	109432982H	0.1000	0.1000	
$ 2 Tetrachloro-m-xylene							
1	3.184	3.186	-0.002	19884143H	0.0100	0.0101	
2	3.678	3.679	-0.001	9589918H	0.0100	0.009791	
						RPD = 3.38	
6 PCB-1016							
1	3.487	3.489	-0.002	6024726H	0.2000	0.2069	
1	3.812	3.813	-0.001	9019399H	0.2000	0.2114	
1	4.296	4.297	-0.001	12941414H	0.2000	0.2060	
1	4.442	4.443	-0.001	7525359H	0.2000	0.2061	
1	4.924	4.926	-0.002	6315799H	0.2000	0.2040	
		Average of Peak Amounts =				0.2069	
2	5.039	5.038	0.001	1967362H	0.2000	0.2004	
2	5.338	5.338	0.000	5765010H	0.2000	0.1940	
2	5.537	5.538	-0.001	3299216H	0.2000	0.1947	
2	6.282	6.281	0.001	2684032H	0.2000	0.1958	
2	6.493	6.493	0.000	2260843H	0.2000	0.1977	
		Average of Peak Amounts =				0.1965	
						RPD = 5.13	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
9 PCB-1260							
1	6.729	6.730	-0.001	9609859H	0.2000	0.2022	
1	7.223	7.222	0.001	14286618H	0.2000	0.2054	
1	7.756	7.755	0.001	10594740H	0.2000	0.2073	
1	9.032	9.032	0.000	19734601H	0.2000	0.2064	
1	9.508	9.508	0.000	10927087H	0.2000	0.2040	
		Average of Peak Amounts =				0.2050	
2	9.075	9.075	0.000	5710157H	0.2000	0.1920	
2	9.842	9.841	0.001	4193559H	0.2000	0.1978	
2	10.311	10.311	0.000	4570633H	0.2000	0.1971	
2	10.692	10.693	-0.001	10633534H	0.2000	0.1961	
2	11.225	11.226	-0.001	6046584H	0.2000	0.1993	
		Average of Peak Amounts =				0.1964	
						RPD = 4.28	
* 46 PCB-205 (IS)							
1	10.572	10.573	-0.001	124974227H	0.1000	0.1000	
2	12.064	12.064	0.000	67121079H	0.1000	0.1000	
$ 12 DCB Decachlorobiphenyl (Surr)							
1	11.177	11.178	-0.001	11417373H	0.0100	0.0103	
2	12.777	12.779	-0.002	5647971H	0.0100	0.0100	
						RPD = 3.55	

Reagents:

GCAR1660CALL3_00016	Amount Added:	1.00	Units: mL	
PCBINT_00007	Amount Added:	0.01	Units: mL	Run Reagent

Report Date: 02-Mar-2018 05:56:16 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\S0301046.D

Injection Date: 01-Mar-2018 19:11:39 Instrument ID: CHGC10

Lims ID: IC

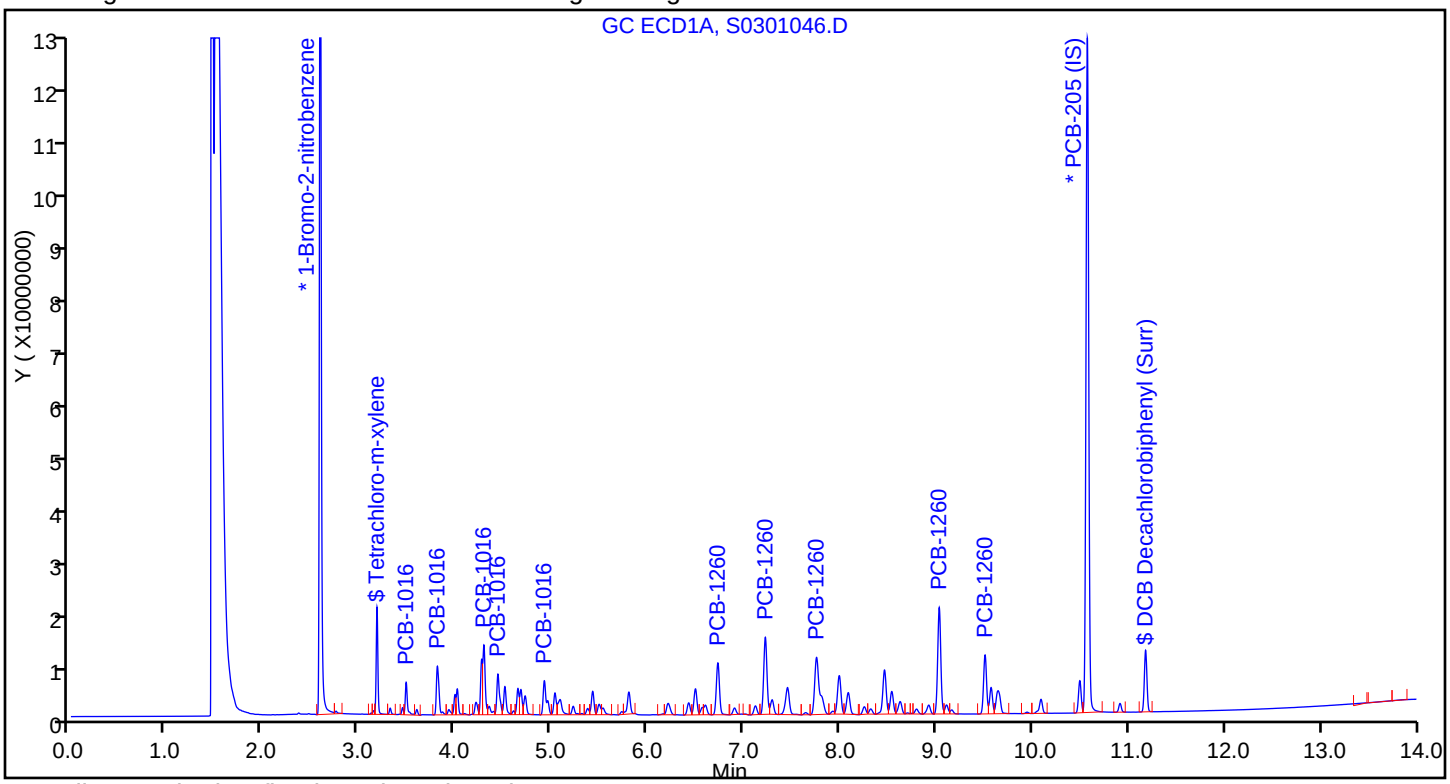
Client ID:

Operator ID: ALS Bottle#: 22 Worklist Smp#: 22

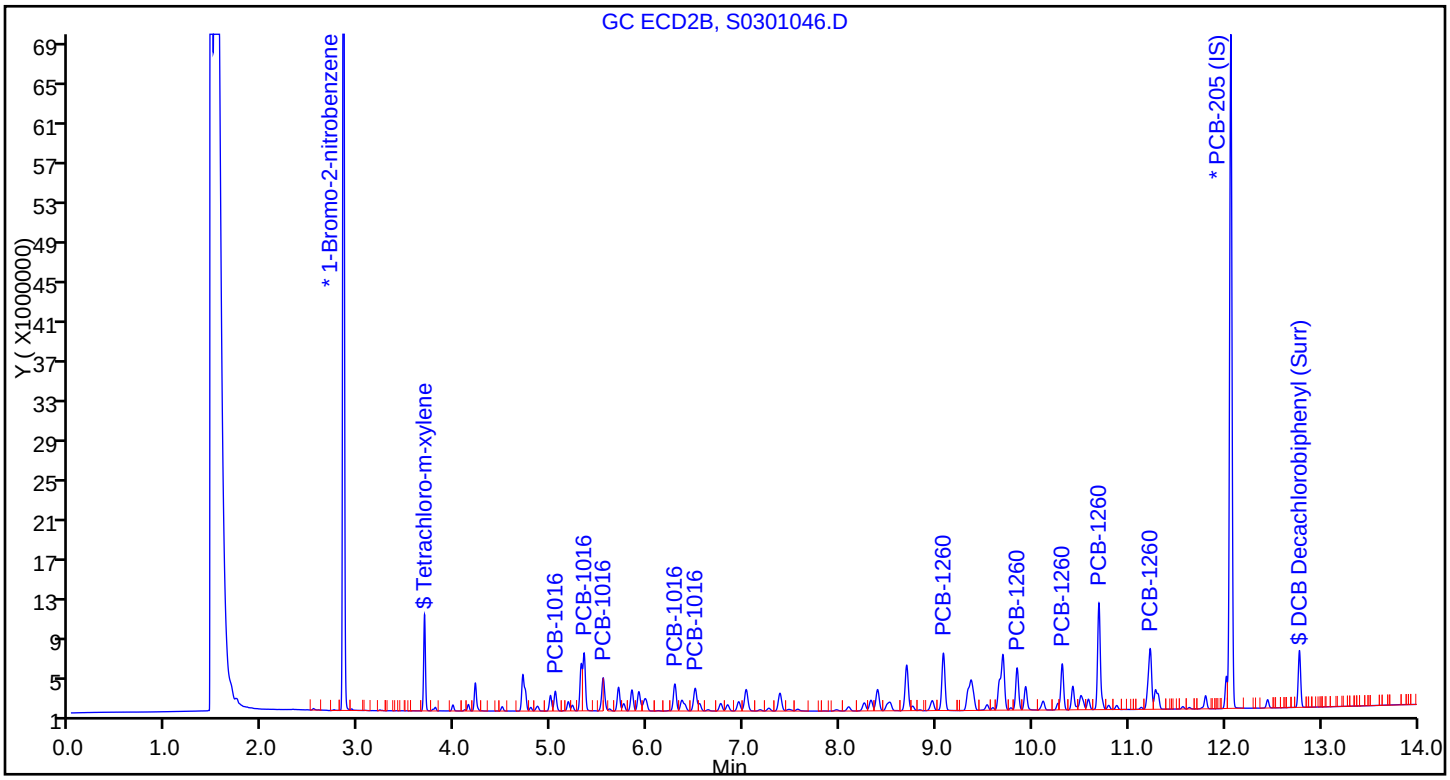
Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: IS PCB_CHGC10DUAL Limit Group: GCS 8082A ICAL with IS

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\S0301047.D
Lims ID: ICIS
Client ID:
Sample Type: ICIS Calib Level: 4
Inject. Date: 01-Mar-2018 19:30:34 ALS Bottle#: 23 Worklist Smp#: 23
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0020692-023
Operator ID: Instrument ID: CHGC10
Sublist: chrom-IS PCB_CHGC10DUAL*sub25

Method: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\IS PCB_CHGC10DUAL.m
Limit Group: GCS 8082A ICAL with IS
Last Update: 02-Mar-2018 05:56:12 Calib Date: 01-Mar-2018 20:27:10
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\S0301050.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK021

First Level Reviewer: oravecj Date: 02-Mar-2018 05:08:38

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 1-Bromo-2-nitrobenzene							
1	2.595	2.595	0.000	166065581H	0.1000	0.1000	
2	2.836	2.836	0.000	102829961H	0.1000	0.1000	
$ 2 Tetrachloro-m-xylene							
1	3.186	3.186	0.000	47133759H	0.0250	0.0256	
2	3.679	3.679	0.000	22692841H	0.0250	0.0247	
						RPD = 3.94	
6 PCB-1016							
1	3.489	3.489	0.000	13418908H	0.5000	0.4923	
1	3.813	3.813	0.000	19907896H	0.5000	0.4986	
1	4.297	4.297	0.000	29941219H	0.5000	0.5092	
1	4.443	4.443	0.000	17202653H	0.5000	0.5033	
1	4.926	4.926	0.000	14280668H	0.5000	0.4928	
		Average of Peak Amounts =				0.4992	
2	5.038	5.038	0.000	4308528H	0.5000	0.4670	
2	5.338	5.338	0.000	13421997H	0.5000	0.4807	
2	5.538	5.538	0.000	7404222H	0.5000	0.4651	
2	6.281	6.281	0.000	5976603H	0.5000	0.4641	
2	6.493	6.493	0.000	4956294H	0.5000	0.4611	
		Average of Peak Amounts =				0.4676	
						RPD = 6.54	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
9 PCB-1260							
1	6.730	6.730	0.000	21197231H	0.5000	0.4938	
1	7.222	7.222	0.000	31526742H	0.5000	0.5020	
1	7.755	7.755	0.000	23884230H	0.5000	0.5175	
1	9.032	9.032	0.000	43923306H	0.5000	0.5086	
1	9.508	9.508	0.000	23825178H	0.5000	0.4925	
		Average of Peak Amounts =				0.5029	
2	9.075	9.075	0.000	12833536H	0.5000	0.4990	
2	9.841	9.841	0.000	9027943H	0.5000	0.4926	
2	10.311	10.311	0.000	9936577H	0.5000	0.4955	
2	10.693	10.693	0.000	23871212H	0.5000	0.5090	
2	11.226	11.226	0.000	13290665H	0.5000	0.5065	
		Average of Peak Amounts =				0.5005	
						RPD = 0.47	
* 46 PCB-205 (IS)							
1	10.573	10.573	0.000	112851236H	0.1000	0.1000	
2	12.064	12.064	0.000	58039675H	0.1000	0.1000	
$ 12 DCB Decachlorobiphenyl (Surr)							
1	11.178	11.178	0.000	24267529H	0.0250	0.0243	
2	12.779	12.779	0.000	12046400H	0.0250	0.0246	
						RPD = 1.13	

Reagents:

GCAR1660CALL4_00016	Amount Added:	1.00	Units: mL	
PCBINT_00007	Amount Added:	0.01	Units: mL	Run Reagent

Report Date: 02-Mar-2018 05:56:14 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\S0301047.D

Injection Date: 01-Mar-2018 19:30:34 Instrument ID: CHGC10

Lims ID: ICIS

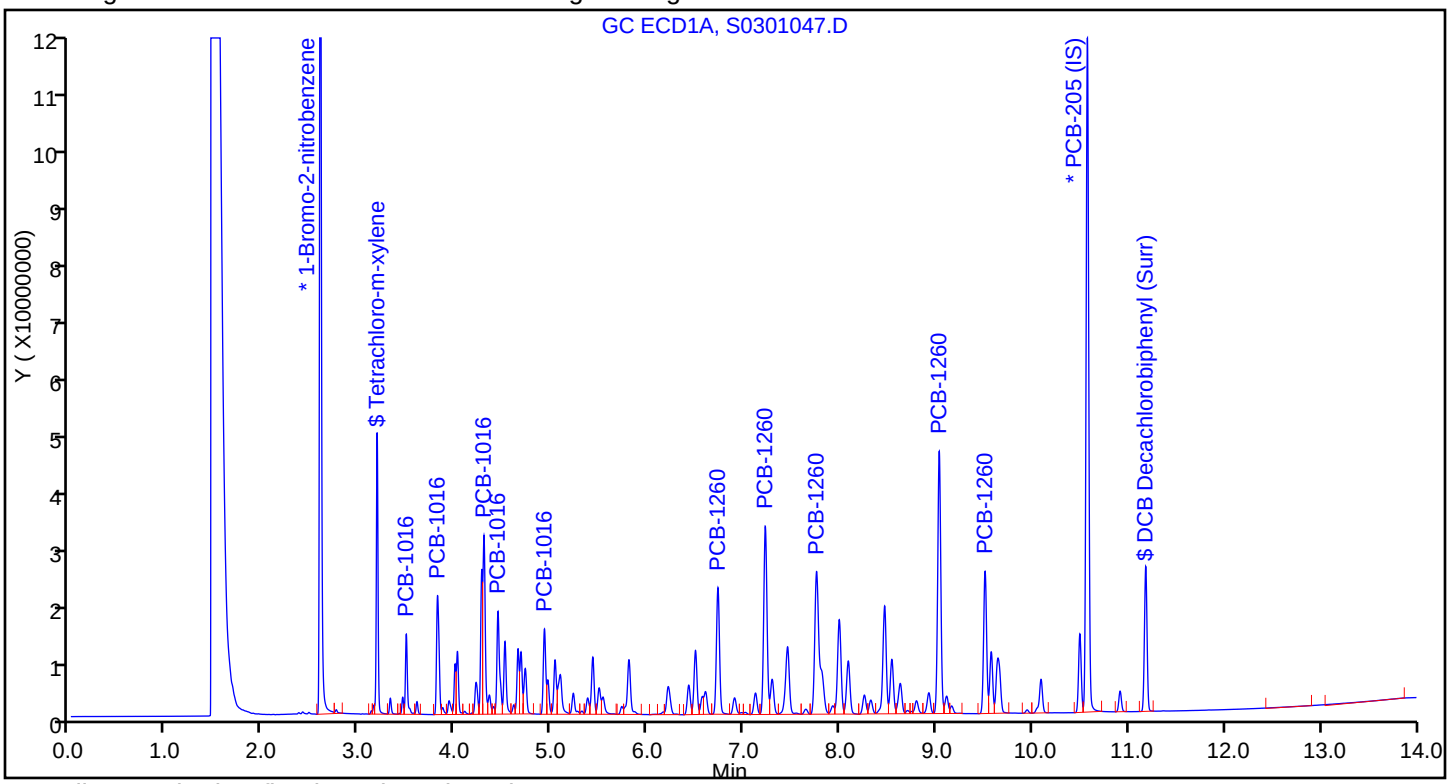
Client ID:

Operator ID: ALS Bottle#: 23 Worklist Smp#: 23

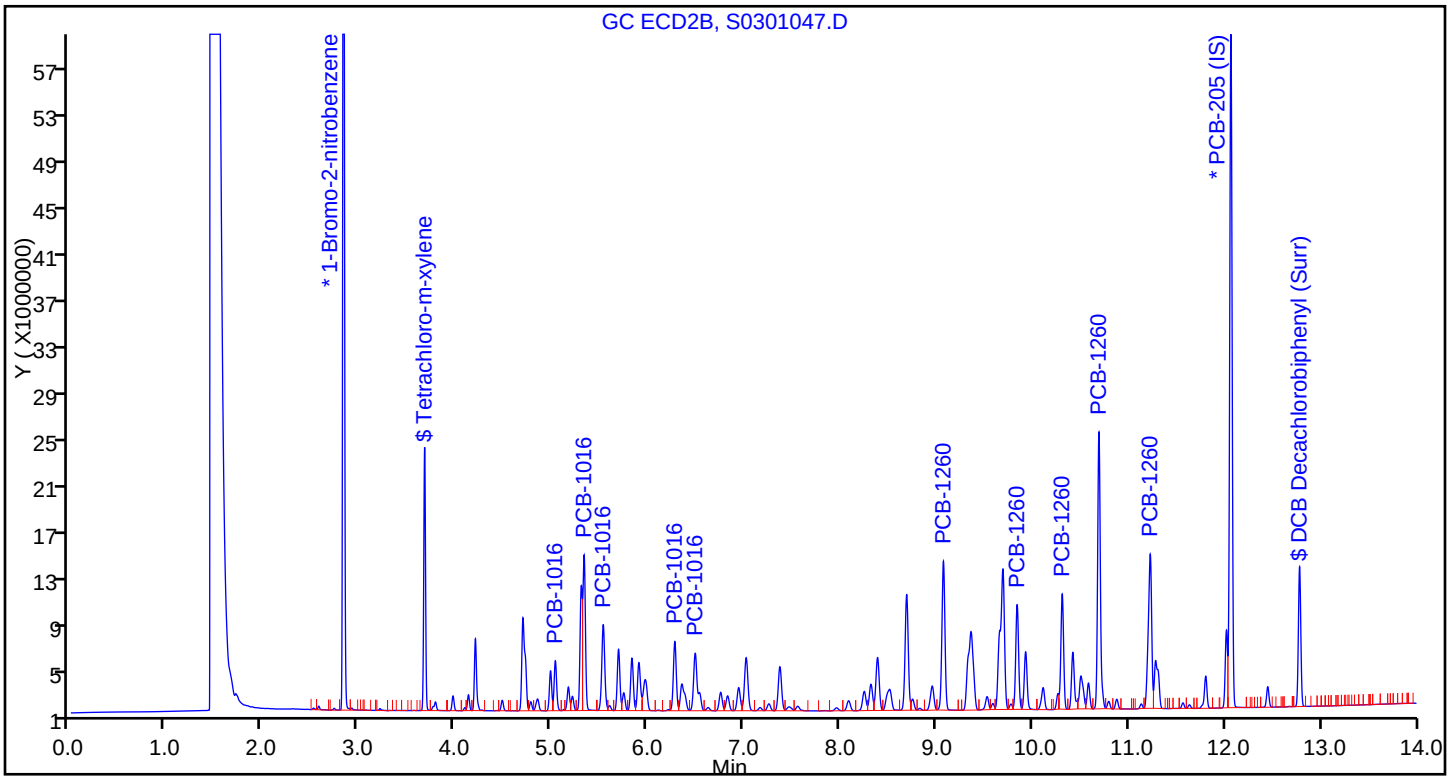
Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: IS PCB_CHGC10DUAL Limit Group: GCS 8082A ICAL with IS

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\S0301048.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 01-Mar-2018 19:49:27 ALS Bottle#: 24 Worklist Smp#: 24
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0020692-024
Operator ID: Instrument ID: CHGC10
Sublist: chrom-IS PCB_CHGC10DUAL*sub25

Method: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\IS PCB_CHGC10DUAL.m
Limit Group: GCS 8082A ICAL with IS
Last Update: 02-Mar-2018 05:56:10 Calib Date: 01-Mar-2018 20:27:10
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\S0301050.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK021

First Level Reviewer: oravecj Date: 02-Mar-2018 05:10:18

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 1-Bromo-2-nitrobenzene							
1	2.595	2.595	0.000	177097958H	0.1000	0.1000	
2	2.836	2.836	0.000	110697353H	0.1000	0.1000	
$ 2 Tetrachloro-m-xylene							
1	3.186	3.186	0.000	96113153H	0.0500	0.0490	
2	3.679	3.679	0.000	50024159H	0.0500	0.0505	
						RPD = 2.91	
6 PCB-1016							
1	3.488	3.489	-0.001	26697942H	1.00	0.9184	
1	3.813	3.813	0.000	38544005H	1.00	0.9052	
1	4.295	4.297	-0.002	64404369H	1.00	1.03	
1	4.441	4.443	-0.002	36502465H	1.00	1.00	
1	4.925	4.926	-0.001	30108486H	1.00	0.9742	
		Average of Peak Amounts =				0.9652	
2	5.039	5.038	0.001	8973315H	1.00	0.9035	
2	5.338	5.338	0.000	29521381H	1.00	0.9822	
2	5.537	5.538	-0.001	16091851H	1.00	0.9390	
2	6.282	6.281	0.001	12991392H	1.00	0.9371	
2	6.494	6.493	0.001	10789600H	1.00	0.9325	
		Average of Peak Amounts =				0.9389	
						RPD = 2.77	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
9 PCB-1260							
1	6.730	6.730	0.000	46181758H	1.00	0.8991	
1	7.223	7.222	0.001	67521304H	1.00	0.8985	
1	7.756	7.755	0.001	52601771H	1.00	0.9525	
1	9.032	9.032	0.000	95754714H	1.00	0.9267	
1	9.507	9.508	-0.001	53835937H	1.00	0.9301	
		Average of Peak Amounts =				0.9214	
2	9.075	9.075	0.000	28070324H	1.00	0.8642	
2	9.842	9.841	0.001	20123335H	1.00	0.8693	
2	10.310	10.311	-0.001	22284430H	1.00	0.8799	
2	10.693	10.693	0.000	54158409H	1.00	0.9144	
2	11.226	11.226	0.000	30000488H	1.00	0.9052	
		Average of Peak Amounts =				0.8866	
						RPD = 3.85	
* 46 PCB-205 (IS)							
1	10.572	10.573	0.000	135029858H	0.1000	0.1000	
2	12.065	12.064	0.000	73304389H	0.1000	0.1000	
$ 12 DCB Decachlorobiphenyl (Surr)							
1	11.180	11.178	0.002	53441003H	0.0500	0.0448	
2	12.779	12.779	0.000	26457467H	0.0500	0.0428	
						RPD = 4.54	

Reagents:

GCAR1660CALL5_00017	Amount Added: 1.00	Units: mL	
PCBINT_00007	Amount Added: 0.01	Units: mL	Run Reagent

Report Date: 02-Mar-2018 05:56:11 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\S0301048.D

Injection Date: 01-Mar-2018 19:49:27 Instrument ID: CHGC10

Lims ID: IC

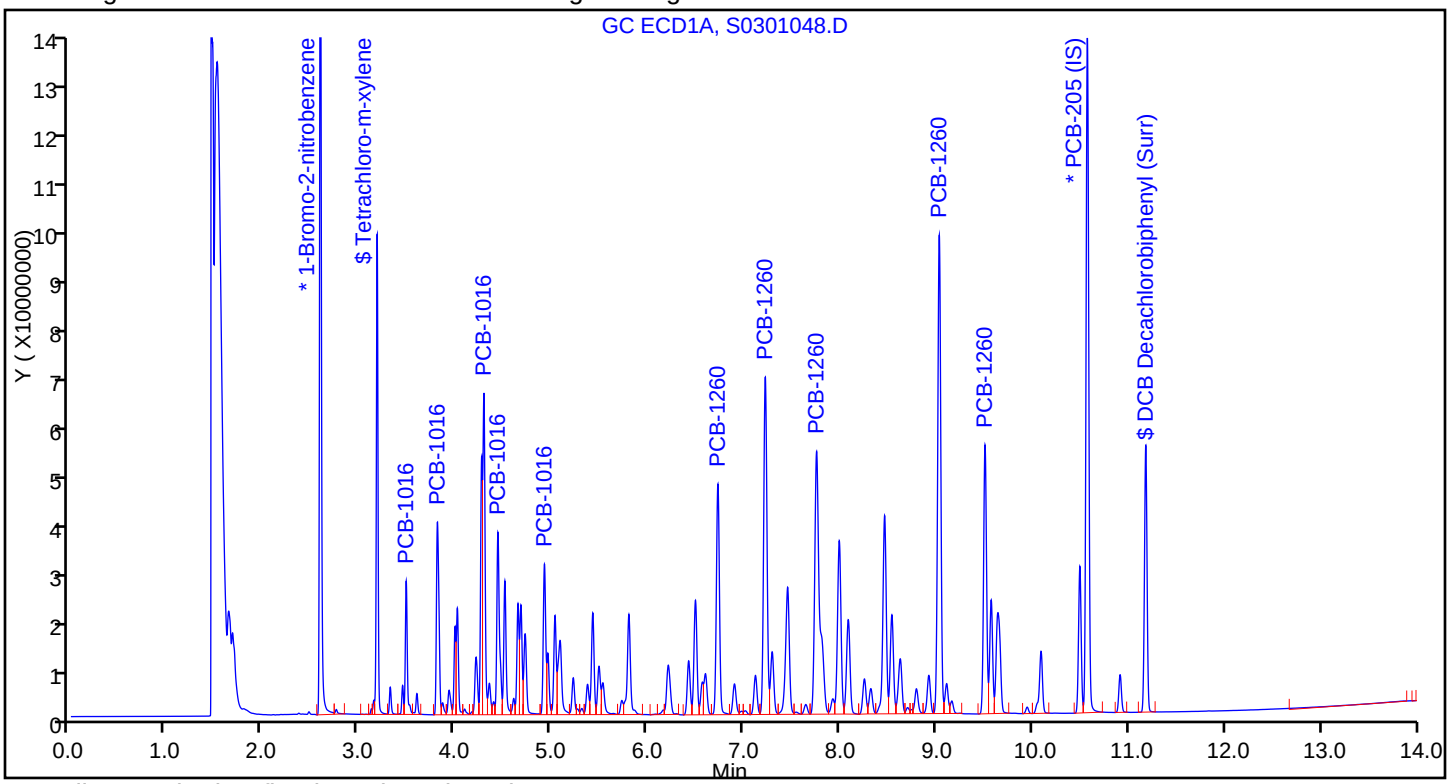
Client ID:

Operator ID: ALS Bottle#: 24 Worklist Smp#: 24

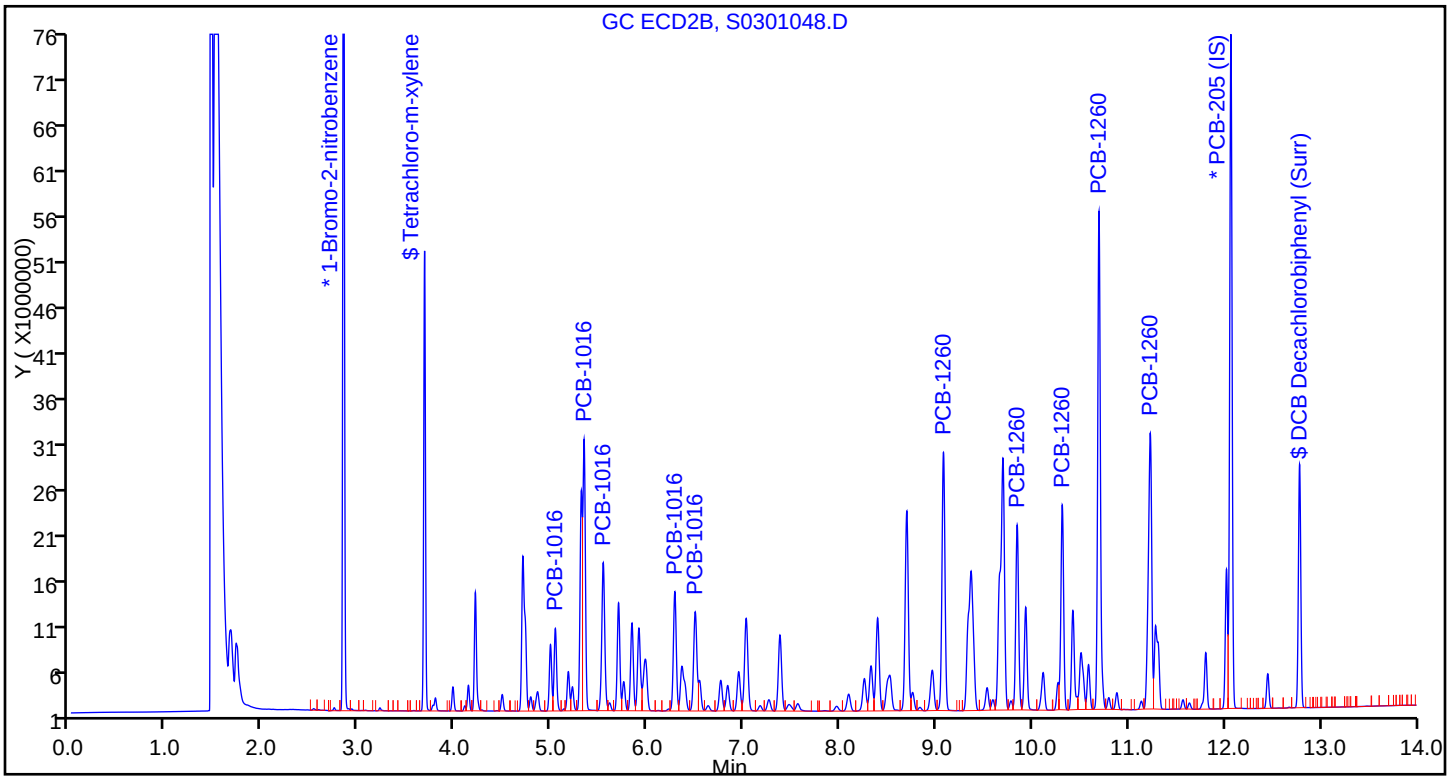
Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: IS PCB_CHGC10DUAL Limit Group: GCS 8082A ICAL with IS

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\S0301049.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 01-Mar-2018 20:08:20 ALS Bottle#: 25 Worklist Smp#: 25
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0020692-025
Operator ID: Instrument ID: CHGC10
Sublist: chrom-IS PCB_CHGC10DUAL*sub25

Method: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\IS PCB_CHGC10DUAL.m
Limit Group: GCS 8082A ICAL with IS
Last Update: 02-Mar-2018 05:56:06 Calib Date: 01-Mar-2018 20:27:10
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\S0301050.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK021

First Level Reviewer: oravecj Date: 02-Mar-2018 05:10:29

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 1-Bromo-2-nitrobenzene							
1	2.596	2.595	0.000	169468674H	0.1000	0.1000	
2	2.836	2.836	0.000	103485121H	0.1000	0.1000	
$ 2 Tetrachloro-m-xylene							
1	3.186	3.186	0.000	181464925H	0.1000	0.0968	
2	3.680	3.679	0.001	92318284H	0.1000	0.0997	
						RPD = 2.96	
6 PCB-1016							
1	3.488	3.489	-0.001	48226266H	2.00	1.73	
1	3.814	3.813	0.001	69732794H	2.00	1.71	
1	4.296	4.297	-0.001	116523901H	2.00	1.94	
1	4.441	4.443	-0.002	65114999H	2.00	1.87	
1	4.925	4.926	-0.001	53199226H	2.00	1.80	
		Average of Peak Amounts =				1.81	
2	5.039	5.038	0.001	15914033H	2.00	1.71	
2	5.339	5.338	0.001	52624259H	2.00	1.87	
2	5.537	5.538	-0.001	28671977H	2.00	1.79	
2	6.282	6.281	0.001	22861464H	2.00	1.76	
2	6.494	6.493	0.001	19362899H	2.00	1.79	
		Average of Peak Amounts =				1.79	
						RPD = 1.35	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
9 PCB-1260							
1	6.730	6.730	0.000	78955095H	2.00	1.89	
1	7.222	7.222	0.000	115152127H	2.00	1.89	
1	7.756	7.755	0.001	90944254H	2.00	2.03	
1	9.031	9.032	-0.001	162268173H	2.00	1.93	
1	9.507	9.508	-0.001	90226075H	2.00	1.92	
		Average of Peak Amounts =				1.93	
2	9.076	9.075	0.001	49759292H	2.00	1.91	
2	9.842	9.841	0.001	35249989H	2.00	1.90	
2	10.311	10.311	0.000	39149077H	2.00	1.93	
2	10.693	10.693	0.000	93831366H	2.00	1.97	
2	11.226	11.226	0.000	51202378H	2.00	1.92	
		Average of Peak Amounts =				1.93	
						RPD = 0.28	
* 46 PCB-205 (IS)							
1	10.572	10.573	0.000	109709117H	0.1000	0.1000	
2	12.066	12.064	0.001	58839713H	0.1000	0.1000	
$ 12 DCB Decachlorobiphenyl (Surr)							
1	11.178	11.178	0.000	88793916H	0.1000	0.0916	
2	12.779	12.779	0.000	45236414H	0.1000	0.0911	
						RPD = 0.47	

Reagents:

GCAR1660CALL6_00015	Amount Added:	1.00	Units: mL	
PCBINT_00007	Amount Added:	0.01	Units: mL	Run Reagent

Report Date: 02-Mar-2018 05:56:08 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\S0301049.D

Injection Date: 01-Mar-2018 20:08:20 Instrument ID: CHGC10

Lims ID: IC

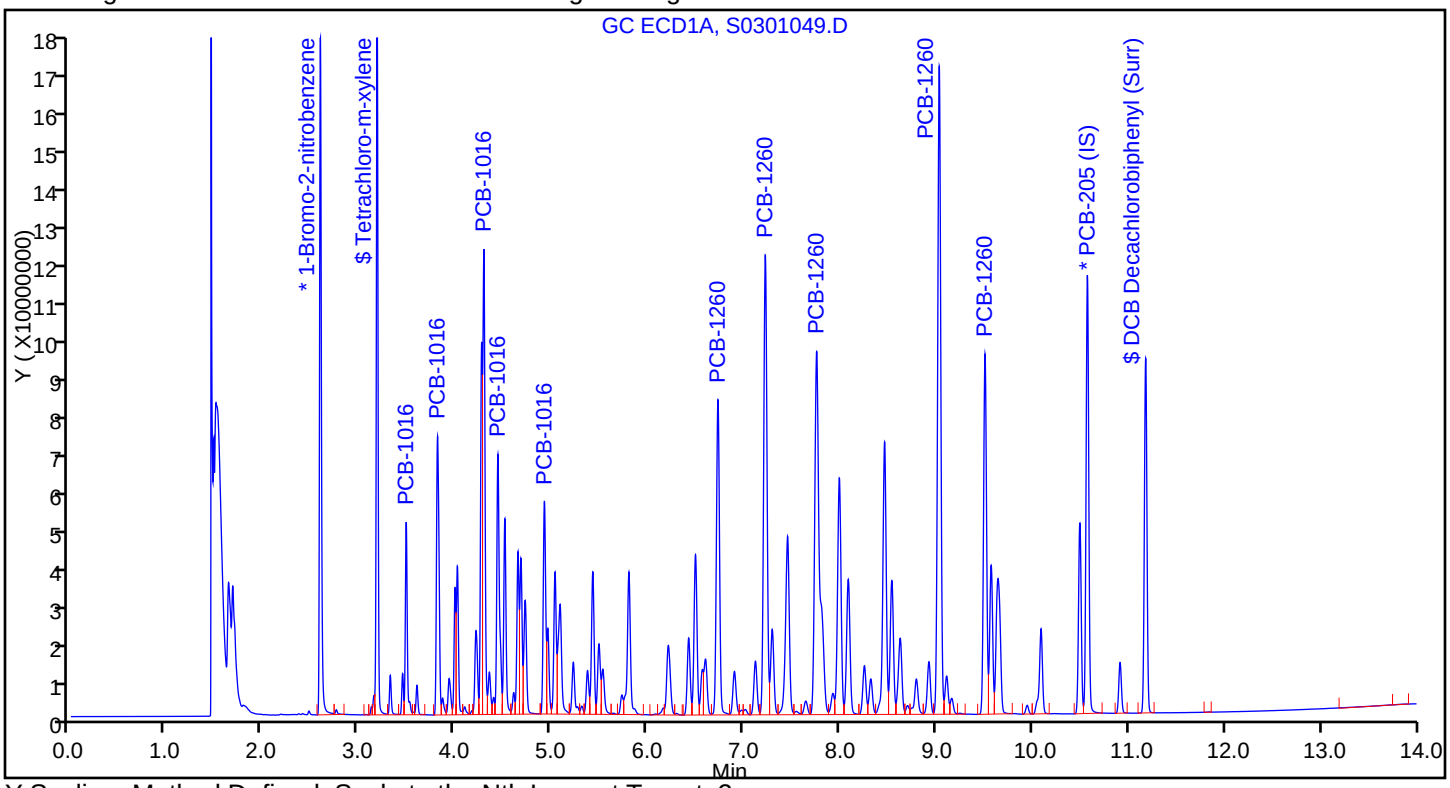
Client ID:

Operator ID: ALS Bottle#: 25 Worklist Smp#: 25

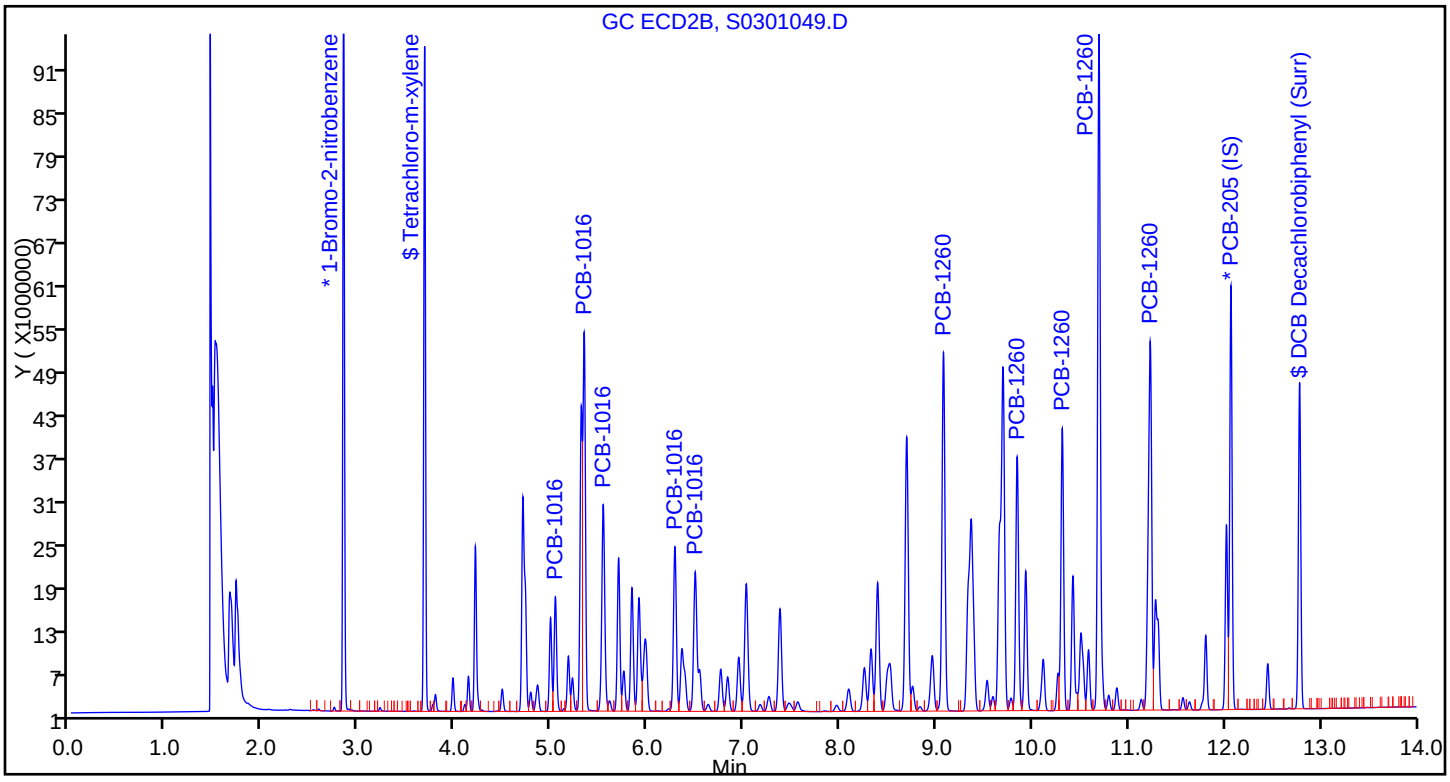
Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: IS PCB_CHGC10DUAL Limit Group: GCS 8082A ICAL with IS

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\S0301050.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 01-Mar-2018 20:27:10 ALS Bottle#: 26 Worklist Smp#: 26
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0020692-026
Operator ID: Instrument ID: CHGC10
Sublist: chrom-IS PCB_CHGC10DUAL*sub25

Method: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\IS PCB_CHGC10DUAL.m
Limit Group: GCS 8082A ICAL with IS
Last Update: 02-Mar-2018 05:56:01 Calib Date: 01-Mar-2018 20:27:10
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\S0301050.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK021

First Level Reviewer: oravecj Date: 02-Mar-2018 05:10:38

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 1-Bromo-2-nitrobenzene							
1	2.595	2.595	0.000	166153397H	0.1000	0.1000	
2	2.837	2.836	0.001	100044187H	0.1000	0.1000	
$ 2 Tetrachloro-m-xylene							
1	3.186	3.186	0.000	346996189H	0.2000	0.1887	
2	3.680	3.679	0.001	184408539H	0.2000	0.2060	
						RPD = 8.73	
6 PCB-1016							
1	3.488	3.489	-0.001	93304714H	4.00	3.42	
1	3.813	3.813	0.000	130100605H	4.00	3.26	
1	4.295	4.297	-0.002	224605905H	4.00	3.82	
1	4.441	4.443	-0.002	126649874H	4.00	3.70	
1	4.925	4.926	-0.001	103991260H	4.00	3.59	
		Average of Peak Amounts =				3.56	
2	5.040	5.038	0.002	31415664H	4.00	3.50	
2	5.339	5.338	0.001	105303688H	4.00	3.88	
2	5.538	5.538	0.000	57341762H	4.00	3.70	
2	6.284	6.281	0.003	46457208H	4.00	3.71	
2	6.495	6.493	0.002	39974262H	4.00	3.82	
		Average of Peak Amounts =				3.72	
						RPD = 4.53	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
9 PCB-1260							
1	6.730	6.730	0.000	158527782H	4.00	3.40	
1	7.225	7.222	0.003	232935620H	4.00	3.42	
1	7.757	7.755	0.002	185526147H	4.00	3.70	
1	9.032	9.032	0.000	339367470H	4.00	3.62	
1	9.509	9.508	0.001	197400773H	4.00	3.76	
		Average of Peak Amounts =				3.58	
2	9.077	9.075	0.002	105078104H	4.00	3.70	
2	9.845	9.841	0.004	74985085H	4.00	3.71	
2	10.313	10.311	0.002	83774146H	4.00	3.78	
2	10.695	10.693	0.002	200492087H	4.00	3.87	
2	11.228	11.226	0.002	112403883H	4.00	3.88	
		Average of Peak Amounts =				3.79	
						RPD = 5.63	
* 46 PCB-205 (IS)							
1	10.574	10.573	0.001	122453642H	0.1000	0.1000	
2	12.067	12.064	0.003	64066096H	0.1000	0.1000	
$ 12 DCB Decachlorobiphenyl (Surr)							
1	11.180	11.178	0.002	195822325H	0.2000	0.1809	
2	12.780	12.779	0.001	101153378H	0.2000	0.1872	
						RPD = 3.40	

Reagents:

GCAR1660CALL7_00016	Amount Added:	1.00	Units: mL	
PCBINT_00007	Amount Added:	0.01	Units: mL	Run Reagent

Report Date: 02-Mar-2018 05:56:03 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\S0301050.D

Injection Date: 01-Mar-2018 20:27:10 Instrument ID: CHGC10

Lims ID: IC

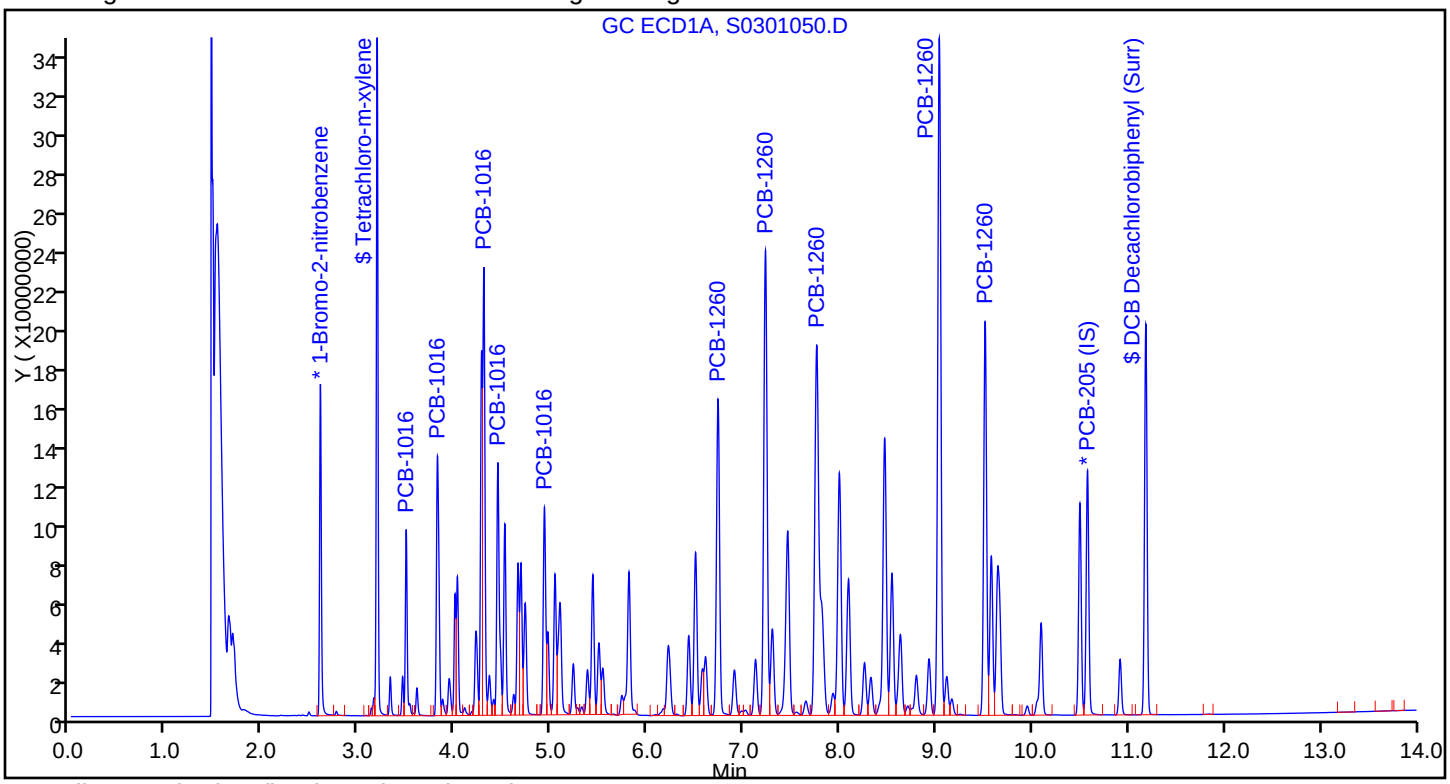
Client ID:

Operator ID: ALS Bottle#: 26 Worklist Smp#: 26

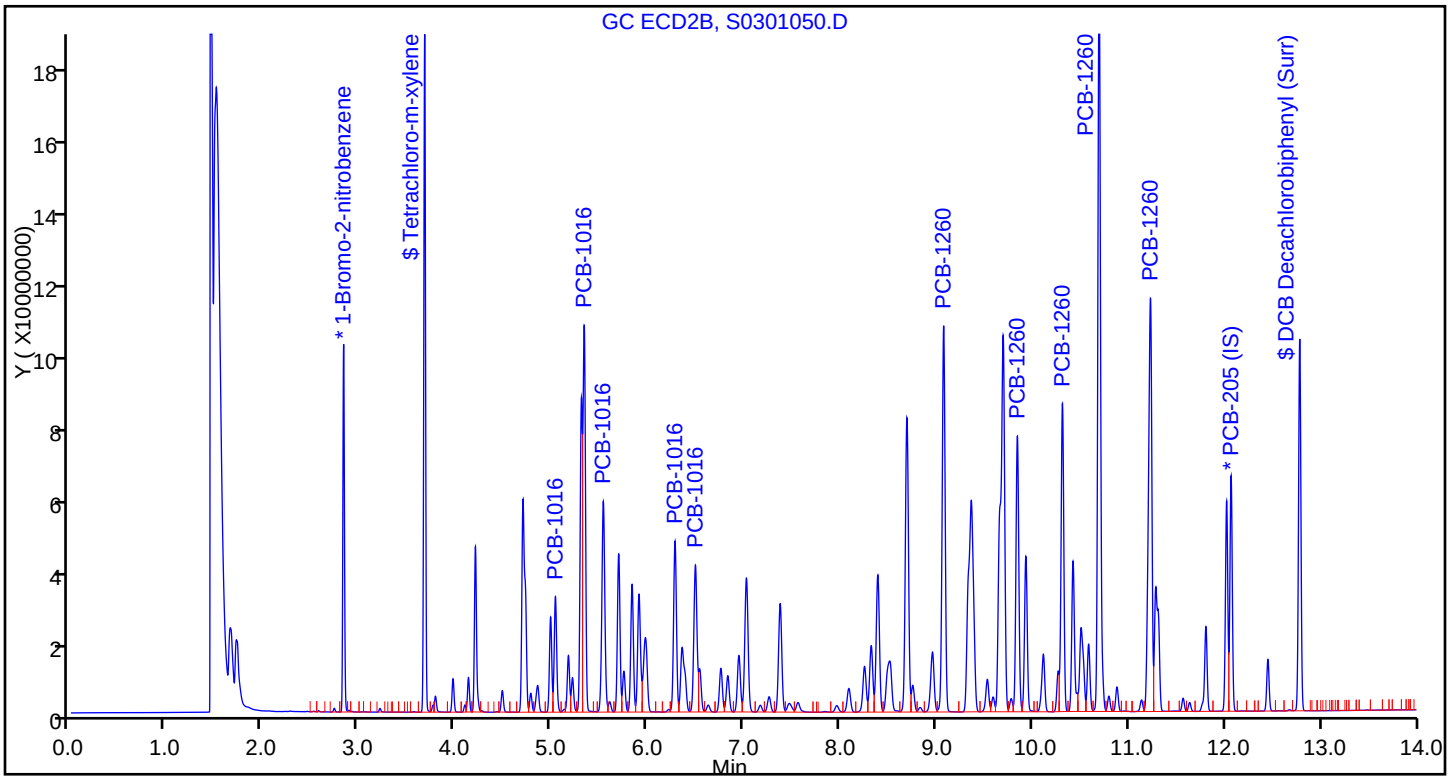
Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: IS PCB_CHGC10DUAL Limit Group: GCS 8082A ICAL with IS

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Pittsburgh Job No.: 180-78164-1 Analy Batch No.: 238236

SDG No.:

Instrument ID: CHGC10 GC Column: RTX-CLP2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/01/2018 18:33 Calibration End Date: 03/01/2018 20:27 Calibration ID: 37444

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 180-238236/20	S0301044.D
Level 2	IC 180-238236/21	S0301045.D
Level 3	IC 180-238236/22	S0301046.D
Level 4	ICIS 180-238236/23	S0301047.D
Level 5	IC 180-238236/24	S0301048.D
Level 6	IC 180-238236/25	S0301049.D
Level 7	IC 180-238236/26	S0301050.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
PCB-1016 Peak 1	0.0116 0.0077	0.0102 0.0079	0.0090	0.0084	0.0081	Ave		0.0090				16.0		20.0			
PCB-1016 Peak 2	0.0321 0.0254	0.0271 0.0263	0.0263	0.0261	0.0267	Ave		0.0272				8.2		20.0			
PCB-1016 Peak 3	0.0194 0.0139	0.0168 0.0143	0.0151	0.0144	0.0145	Ave		0.0155				12.7		20.0			
PCB-1016 Peak 4	0.0157 0.0110	0.0136 0.0116	0.0123	0.0116	0.0117	Ave		0.0125				13.1		20.0			
PCB-1016 Peak 5	0.0128 0.0094	0.0113 0.0100	0.0103	0.0096	0.0097	Ave		0.0105				11.7		20.0			
PCB-1260 Peak 1	0.0541 0.0423	0.0478 0.0410	0.0425	0.0442	0.0383	Ave		0.0443				11.7		20.0			
PCB-1260 Peak 2	0.0379 0.0300	0.0342 0.0293	0.0312	0.0311	0.0275	Ave		0.0316				10.9		20.0			
PCB-1260 Peak 3	0.0410 0.0333	0.0362 0.0327	0.0340	0.0342	0.0304	Ave		0.0345				9.7		20.0			
PCB-1260 Peak 4	0.0907 0.0797	0.0816 0.0782	0.0792	0.0823	0.0739	Ave		0.0808				6.4		20.0			
PCB-1260 Peak 5	0.0515 0.0435	0.0458 0.0439	0.0450	0.0458	0.0409	Ave		0.0452				7.2		20.0			
Tetrachloro-m-xylene	0.9233 0.8921	0.8651 0.9216	0.8763	0.8827	0.9038	Ave		0.8950				2.5		20.0			
DCB Decachlorobiphenyl (Surr)	1.0218 0.7688	0.9314 0.7894	0.8415	0.8302	0.7219	Ave		0.8436				12.1		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Pittsburgh Job No.: 180-78164-1 Analy Batch No.: 238236

SDG No.:

Instrument ID: CHGC10 GC Column: RTX-CLP2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/01/2018 18:33 Calibration End Date: 03/01/2018 20:27 Calibration ID: 37444

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 180-238236/20	S0301044.D
Level 2	IC 180-238236/21	S0301045.D
Level 3	IC 180-238236/22	S0301046.D
Level 4	ICIS 180-238236/23	S0301047.D
Level 5	IC 180-238236/24	S0301048.D
Level 6	IC 180-238236/25	S0301049.D
Level 7	IC 180-238236/26	S0301050.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
PCB-1016 Peak 1	BNB	Ave	132672 15914033	560394 31415664	1967362	4308528	8973315	0.0100 2.00	0.0500 4.00	0.200	0.500	1.00
PCB-1016 Peak 2	BNB	Ave	367191 52624259	1490691 105303688	5765010	13421997	29521381	0.0100 2.00	0.0500 4.00	0.200	0.500	1.00
PCB-1016 Peak 3	BNB	Ave	221684 28671977	923572 57341762	3299216	7404222	16091851	0.0100 2.00	0.0500 4.00	0.200	0.500	1.00
PCB-1016 Peak 4	BNB	Ave	180134 22861464	750194 46457208	2684032	5976603	12991392	0.0100 2.00	0.0500 4.00	0.200	0.500	1.00
PCB-1016 Peak 5	BNB	Ave	146852 19362899	619526 39974262	2260843	4956294	10789600	0.0100 2.00	0.0500 4.00	0.200	0.500	1.00
PCB-1260 Peak 1	PCB205	Ave	389255 49759292	1505067 105078104	5710157	12833536	28070324	0.0100 2.00	0.0500 4.00	0.200	0.500	1.00
PCB-1260 Peak 2	PCB205	Ave	272619 35249989	1076584 74985085	4193559	9027943	20123335	0.0100 2.00	0.0500 4.00	0.200	0.500	1.00
PCB-1260 Peak 3	PCB205	Ave	295132 39149077	1140223 83774146	4570633	9936577	22284430	0.0100 2.00	0.0500 4.00	0.200	0.500	1.00
PCB-1260 Peak 4	PCB205	Ave	652781 93831366	2570726 200492087	10633534	23871212	54158409	0.0100 2.00	0.0500 4.00	0.200	0.500	1.00
PCB-1260 Peak 5	PCB205	Ave	370923 51202378	1443255 112403883	6046584	13290665	30000488	0.0100 2.00	0.0500 4.00	0.200	0.500	1.00
Tetrachloro-m-xylene	BNB	Ave	528371 92318284	2377381 184408539	9589918	22692841	50024159	0.000500 0.100	0.00250 0.200	0.0100	0.0250	0.0500
DCB Decachlorobiphenyl (Surr)	PCB205	Ave	367776 45236414	1467154 101153378	5647971	12046400	26457467	0.000500 0.100	0.00250 0.200	0.0100	0.0250	0.0500

Curve Type Legend:
Ave = Average ISTD by Height

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\S0301044.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 01-Mar-2018 18:33:54 ALS Bottle#: 20 Worklist Smp#: 20
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0020692-020
Operator ID: Instrument ID: CHGC10
Sublist: chrom-IS PCB_CHGC10DUAL*sub25

Method: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\IS PCB_CHGC10DUAL.m
Limit Group: GCS 8082A ICAL with IS
Last Update: 02-Mar-2018 05:56:22 Calib Date: 01-Mar-2018 20:27:10
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\S0301050.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK021

First Level Reviewer: oravecj Date: 02-Mar-2018 05:05:39

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 1-Bromo-2-nitrobenzene							
1	2.594	2.595	-0.001	185975729H	0.1000	0.1000	
2	2.835	2.836	-0.001	114455315H	0.1000	0.1000	
$ 2 Tetrachloro-m-xylene							
1	3.184	3.186	-0.002	1079497H	0.000500	0.000525	
2	3.677	3.679	-0.002	528371H	0.000500	0.000516	
						RPD = 1.68	
6 PCB-1016							
1	3.487	3.489	-0.002	364444H	0.0100	0.0119	
1	3.812	3.813	-0.001	556026H	0.0100	0.0124	
1	4.298	4.297	0.001	658158H	0.0100	0.0100	
1	4.444	4.443	0.001	405757H	0.0100	0.0106	
1	4.926	4.926	0.000	374760H	0.0100	0.0115	
		Average of Peak Amounts =				0.0113	
2	5.039	5.038	0.001	132672H	0.0100	0.0129	
2	5.338	5.338	0.000	367191H	0.0100	0.0118	
2	5.537	5.538	-0.001	221684H	0.0100	0.0125	
2	6.281	6.281	0.000	180134H	0.0100	0.0126	
2	6.492	6.493	-0.001	146852H	0.0100	0.0123	
		Average of Peak Amounts =				0.0124	
						RPD = 9.40	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
9 PCB-1260							
1	6.731	6.730	0.001	596804H	0.0100	0.0116	
1	7.225	7.222	0.003	867457H	0.0100	0.0115	
1	7.762	7.755	0.007	504100H	0.0100	0.009125	
1	9.033	9.032	0.001	1117975H	0.0100	0.0108	
1	9.510	9.508	0.002	637498H	0.0100	0.0110	
		Average of Peak Amounts =				0.0108	
2	9.077	9.075	0.002	389255H	0.0100	0.0122	
2	9.841	9.841	0.000	272619H	0.0100	0.0120	
2	10.311	10.311	0.000	295132H	0.0100	0.0119	
2	10.692	10.693	-0.001	652781H	0.0100	0.0112	
2	11.225	11.226	-0.001	370923H	0.0100	0.0114	
		Average of Peak Amounts =				0.0117	
						RPD = 8.12	
* 46 PCB-205 (IS)							
1	10.571	10.573	-0.002	135081267H	0.1000	0.1000	
2	12.063	12.064	-0.001	71982986H	0.1000	0.1000	
$ 12 DCB Decachlorobiphenyl (Surr)							
1	11.178	11.178	0.000	690603H	0.000500	0.000578	
2	12.777	12.779	-0.002	367776H	0.000500	0.000606	
						RPD = 4.61	

Reagents:

GCAR1660CALL1_00023	Amount Added:	1.00	Units: mL	
PCBINT_00007	Amount Added:	0.01	Units: mL	Run Reagent

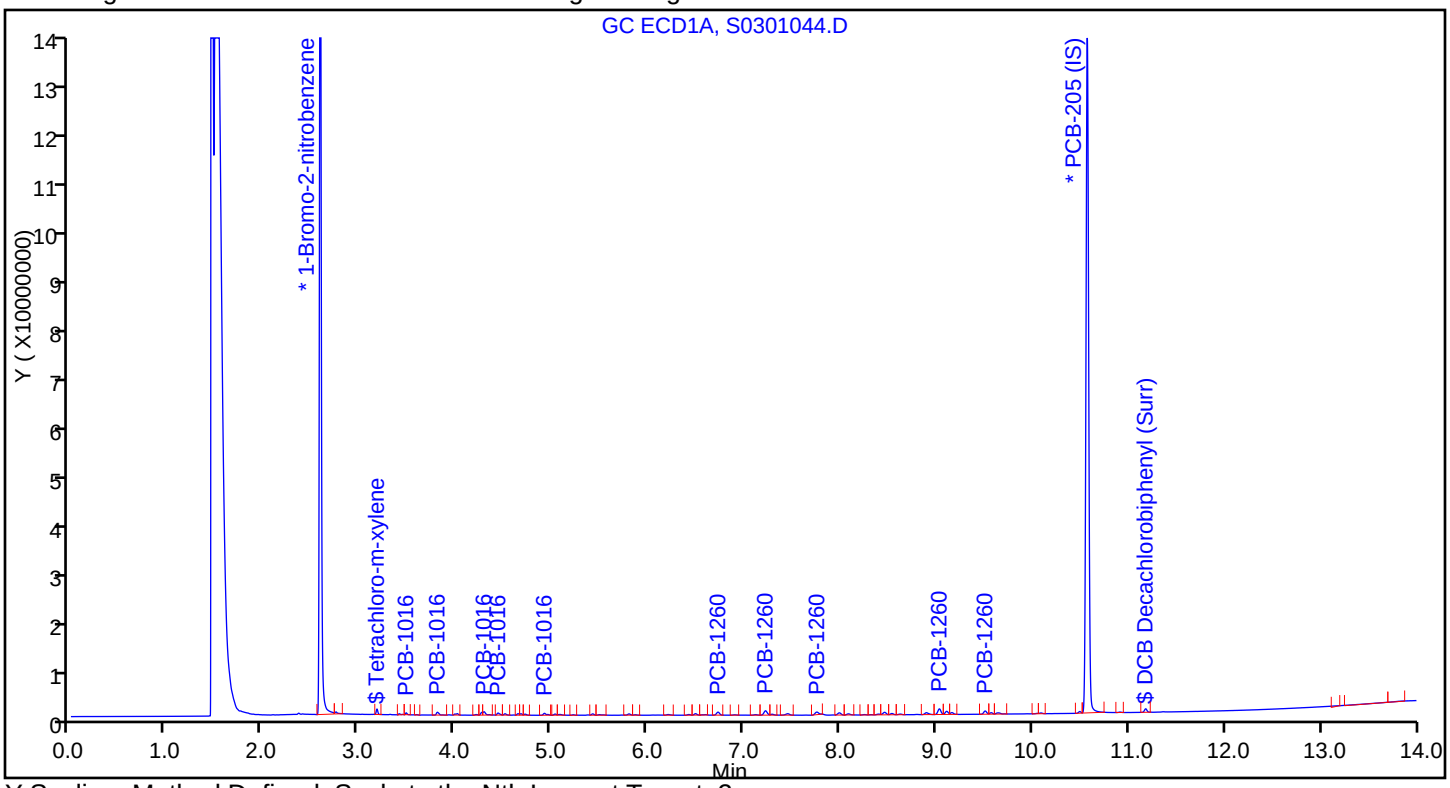
Report Date: 02-Mar-2018 05:56:23 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Pittsburgh

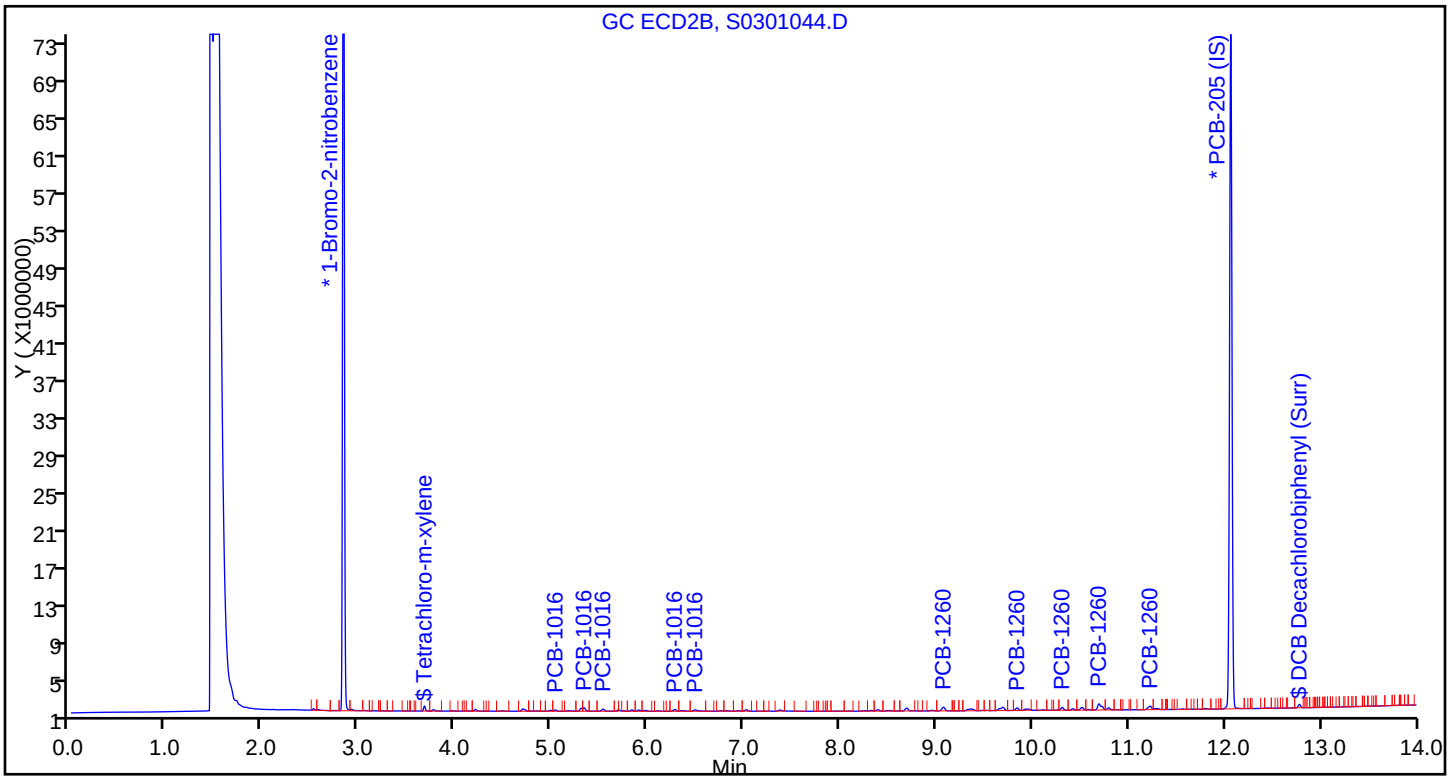
Data File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\S0301044.D

Injection Date:	01-Mar-2018 18:33:54	Instrument ID:	CHGC10		
Lims ID:	IC				
Client ID:					
Operator ID:		ALS Bottle#:	20	Worklist Smp#:	20
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	IS PCB_CHGC10DUAL	Limit Group:	GCS 8082A ICAL with IS		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\S0301045.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 01-Mar-2018 18:52:48 ALS Bottle#: 21 Worklist Smp#: 21
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0020692-021
Operator ID: Instrument ID: CHGC10
Sublist: chrom-IS PCB_CHGC10DUAL*sub25

Method: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\IS PCB_CHGC10DUAL.m
Limit Group: GCS 8082A ICAL with IS
Last Update: 02-Mar-2018 05:56:19 Calib Date: 01-Mar-2018 20:27:10
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\S0301050.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK021

First Level Reviewer: oravecj Date: 02-Mar-2018 05:09:48

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 1-Bromo-2-nitrobenzene							
1	2.595	2.595	0.000	176837862H	0.1000	0.1000	
2	2.836	2.836	0.000	109923688H	0.1000	0.1000	
$ 2 Tetrachloro-m-xylene							
1	3.185	3.186	-0.001	4989925H	0.002500	0.002550	
2	3.678	3.679	-0.001	2377381H	0.002500	0.002416	
						RPD = 5.37	
6 PCB-1016							
1	3.488	3.489	-0.001	1664473H	0.0500	0.0573	
1	3.813	3.813	0.000	2395601H	0.0500	0.0563	
1	4.298	4.297	0.001	3130783H	0.0500	0.0500	
1	4.443	4.443	0.000	1896628H	0.0500	0.0521	
1	4.926	4.926	0.000	1650691H	0.0500	0.0535	
		Average of Peak Amounts =				0.0539	
2	5.039	5.038	0.001	560394H	0.0500	0.0568	
2	5.338	5.338	0.000	1490691H	0.0500	0.0499	
2	5.537	5.538	-0.001	923572H	0.0500	0.0543	
2	6.282	6.281	0.001	750194H	0.0500	0.0545	
2	6.495	6.493	0.002	619526H	0.0500	0.0539	
		Average of Peak Amounts =				0.0539	
						RPD = 0.07	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
9 PCB-1260							
1	6.730	6.730	0.000	2464029H	0.0500	0.0572	
1	7.224	7.222	0.002	3527234H	0.0500	0.0560	
1	7.758	7.755	0.003	2603284H	0.0500	0.0562	
1	9.032	9.032	0.000	4640010H	0.0500	0.0535	
1	9.509	9.508	0.001	2583636H	0.0500	0.0532	
		Average of Peak Amounts =				0.0552	
2	9.076	9.075	0.001	1505067H	0.0500	0.0539	
2	9.842	9.841	0.001	1076584H	0.0500	0.0541	
2	10.311	10.311	0.000	1140223H	0.0500	0.0524	
2	10.693	10.693	0.000	2570726H	0.0500	0.0505	
2	11.226	11.226	0.000	1443255H	0.0500	0.0507	
		Average of Peak Amounts =				0.0523	
						RPD = 5.43	
* 46 PCB-205 (IS)							
1	10.573	10.573	0.000	113241663H	0.1000	0.1000	
2	12.065	12.064	0.000	63010699H	0.1000	0.1000	
$ 12 DCB Decachlorobiphenyl (Surr)							
1	11.179	11.178	0.001	2804672H	0.002500	0.002802	
2	12.779	12.779	0.000	1467154H	0.002500	0.002760	
						RPD = 1.50	

Reagents:

GCAR1660CALL2_00017	Amount Added: 1.00	Units: mL	
PCBINT_00007	Amount Added: 0.01	Units: mL	Run Reagent

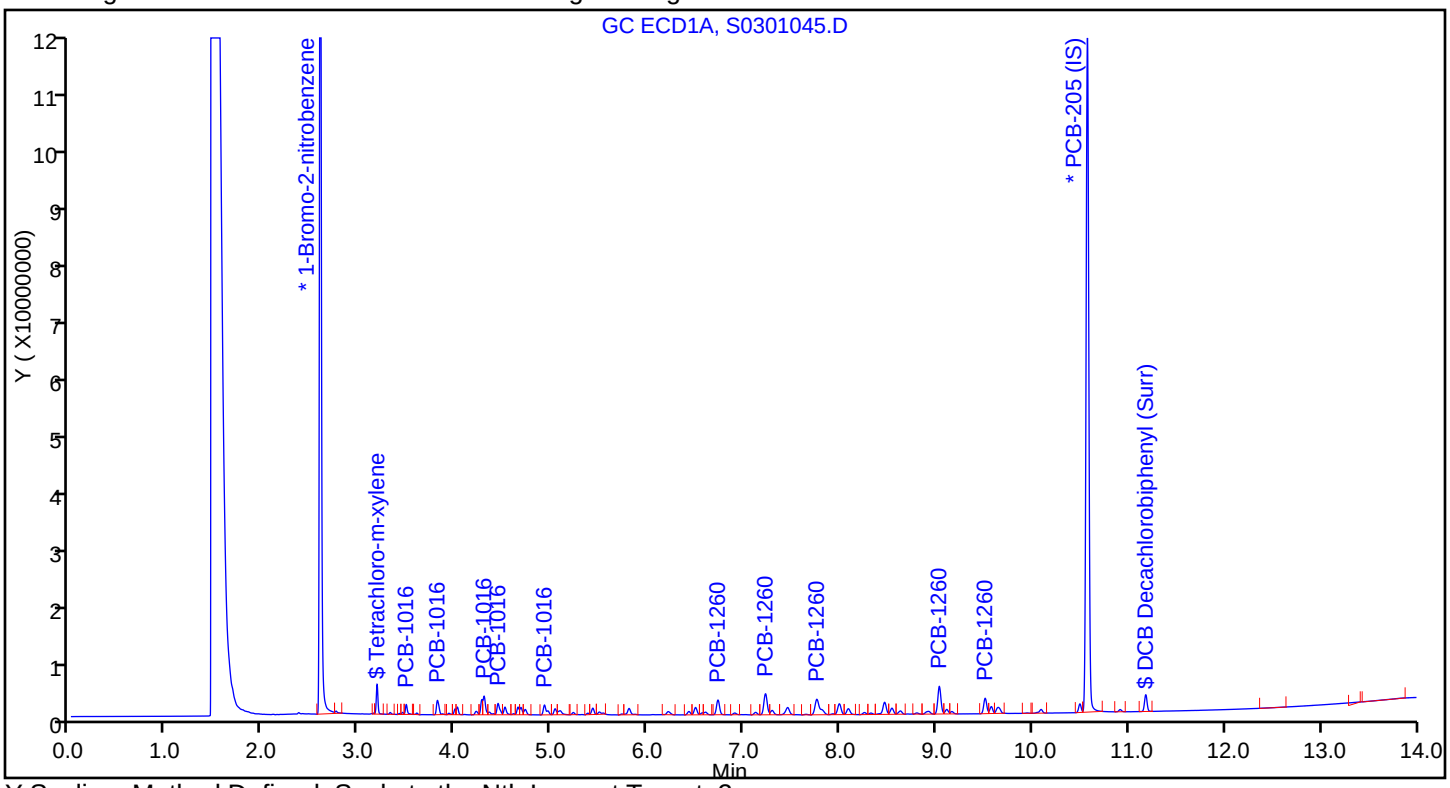
Report Date: 02-Mar-2018 05:56:20 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Pittsburgh

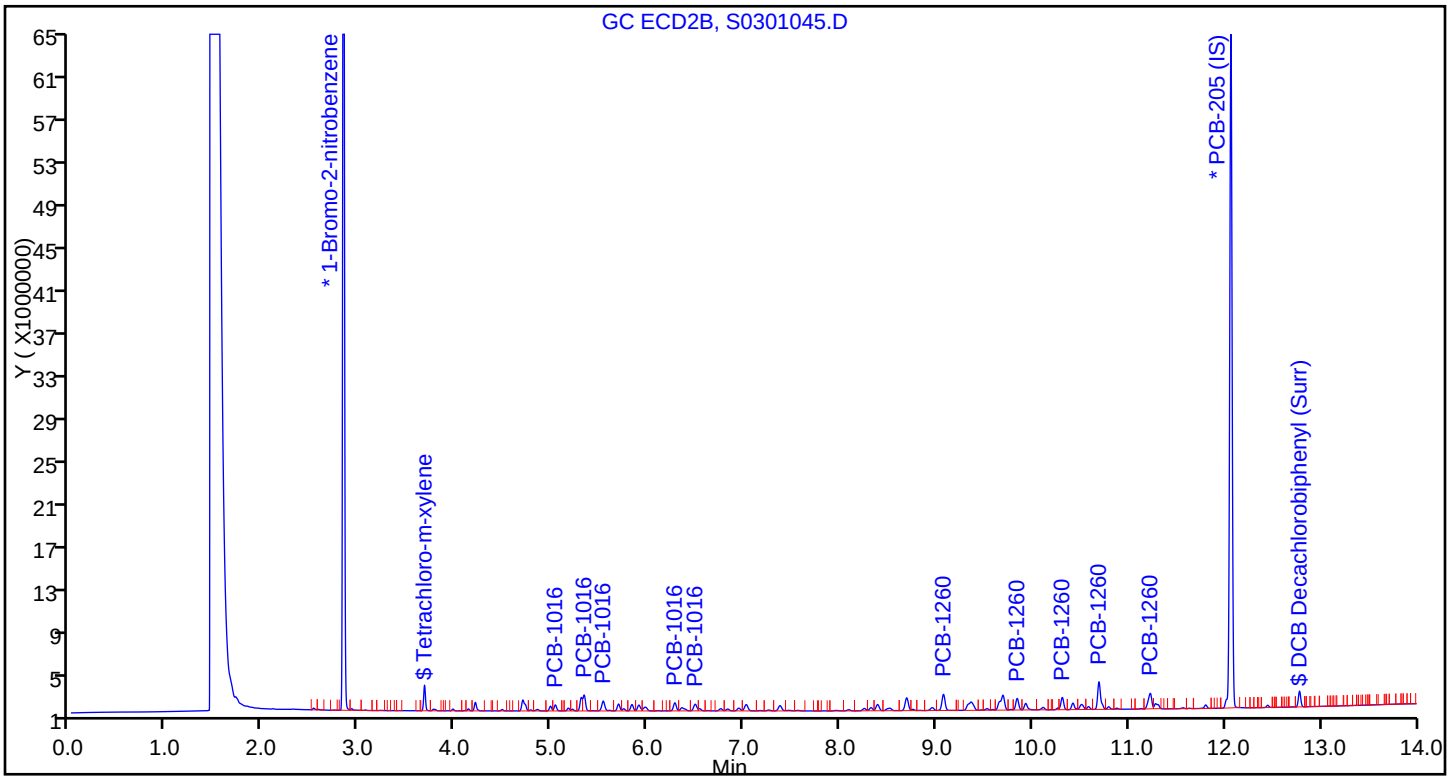
Data File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\S0301045.D

Injection Date:	01-Mar-2018 18:52:48	Instrument ID:	CHGC10		
Lims ID:	IC				
Client ID:					
Operator ID:		ALS Bottle#:	21	Worklist Smp#:	21
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	IS PCB_CHGC10DUAL	Limit Group:	GCS 8082A ICAL with IS		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\S0301046.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 01-Mar-2018 19:11:39 ALS Bottle#: 22 Worklist Smp#: 22
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0020692-022
Operator ID: Instrument ID: CHGC10
Sublist: chrom-IS PCB_CHGC10DUAL*sub25

Method: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\IS PCB_CHGC10DUAL.m
Limit Group: GCS 8082A ICAL with IS
Last Update: 02-Mar-2018 05:56:15 Calib Date: 01-Mar-2018 20:27:10
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\S0301050.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK021

First Level Reviewer: oravecj Date: 02-Mar-2018 05:10:00

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 1-Bromo-2-nitrobenzene							
1	2.594	2.595	-0.001	177416493H	0.1000	0.1000	
2	2.836	2.836	0.000	109432982H	0.1000	0.1000	
$ 2 Tetrachloro-m-xylene							
1	3.184	3.186	-0.002	19884143H	0.0100	0.0101	
2	3.678	3.679	-0.001	9589918H	0.0100	0.009791	
						RPD = 3.38	
6 PCB-1016							
1	3.487	3.489	-0.002	6024726H	0.2000	0.2069	
1	3.812	3.813	-0.001	9019399H	0.2000	0.2114	
1	4.296	4.297	-0.001	12941414H	0.2000	0.2060	
1	4.442	4.443	-0.001	7525359H	0.2000	0.2061	
1	4.924	4.926	-0.002	6315799H	0.2000	0.2040	
		Average of Peak Amounts =				0.2069	
2	5.039	5.038	0.001	1967362H	0.2000	0.2004	
2	5.338	5.338	0.000	5765010H	0.2000	0.1940	
2	5.537	5.538	-0.001	3299216H	0.2000	0.1947	
2	6.282	6.281	0.001	2684032H	0.2000	0.1958	
2	6.493	6.493	0.000	2260843H	0.2000	0.1977	
		Average of Peak Amounts =				0.1965	
						RPD = 5.13	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
9 PCB-1260							
1	6.729	6.730	-0.001	9609859H	0.2000	0.2022	
1	7.223	7.222	0.001	14286618H	0.2000	0.2054	
1	7.756	7.755	0.001	10594740H	0.2000	0.2073	
1	9.032	9.032	0.000	19734601H	0.2000	0.2064	
1	9.508	9.508	0.000	10927087H	0.2000	0.2040	
		Average of Peak Amounts =				0.2050	
2	9.075	9.075	0.000	5710157H	0.2000	0.1920	
2	9.842	9.841	0.001	4193559H	0.2000	0.1978	
2	10.311	10.311	0.000	4570633H	0.2000	0.1971	
2	10.692	10.693	-0.001	10633534H	0.2000	0.1961	
2	11.225	11.226	-0.001	6046584H	0.2000	0.1993	
		Average of Peak Amounts =				0.1964	
						RPD = 4.28	
* 46 PCB-205 (IS)							
1	10.572	10.573	-0.001	124974227H	0.1000	0.1000	
2	12.064	12.064	0.000	67121079H	0.1000	0.1000	
$ 12 DCB Decachlorobiphenyl (Surr)							
1	11.177	11.178	-0.001	11417373H	0.0100	0.0103	
2	12.777	12.779	-0.002	5647971H	0.0100	0.0100	
						RPD = 3.55	

Reagents:

GCAR1660CALL3_00016	Amount Added:	1.00	Units: mL	
PCBINT_00007	Amount Added:	0.01	Units: mL	Run Reagent

Report Date: 02-Mar-2018 05:56:17 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\S0301046.D

Injection Date: 01-Mar-2018 19:11:39 Instrument ID: CHGC10

Lims ID: IC

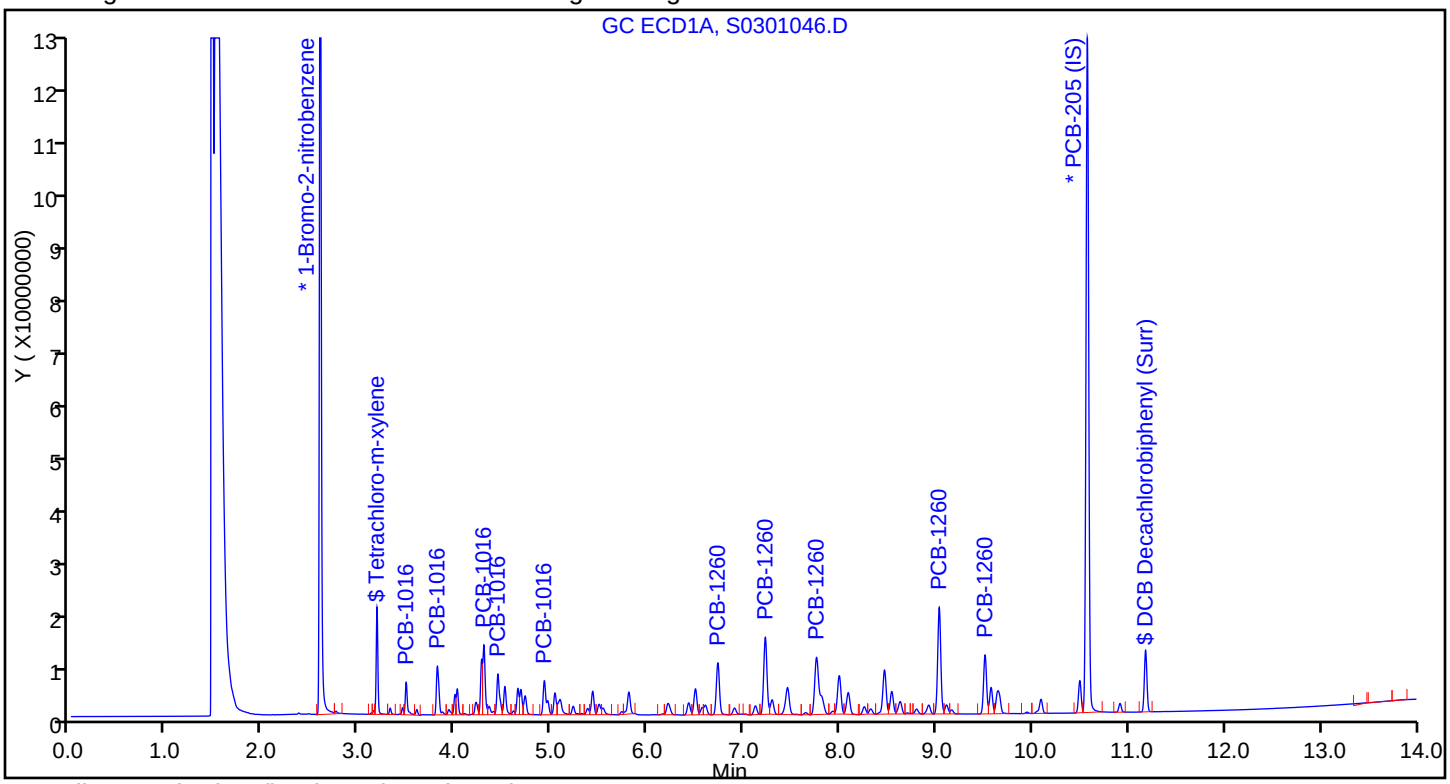
Client ID:

Operator ID: ALS Bottle#: 22 Worklist Smp#: 22

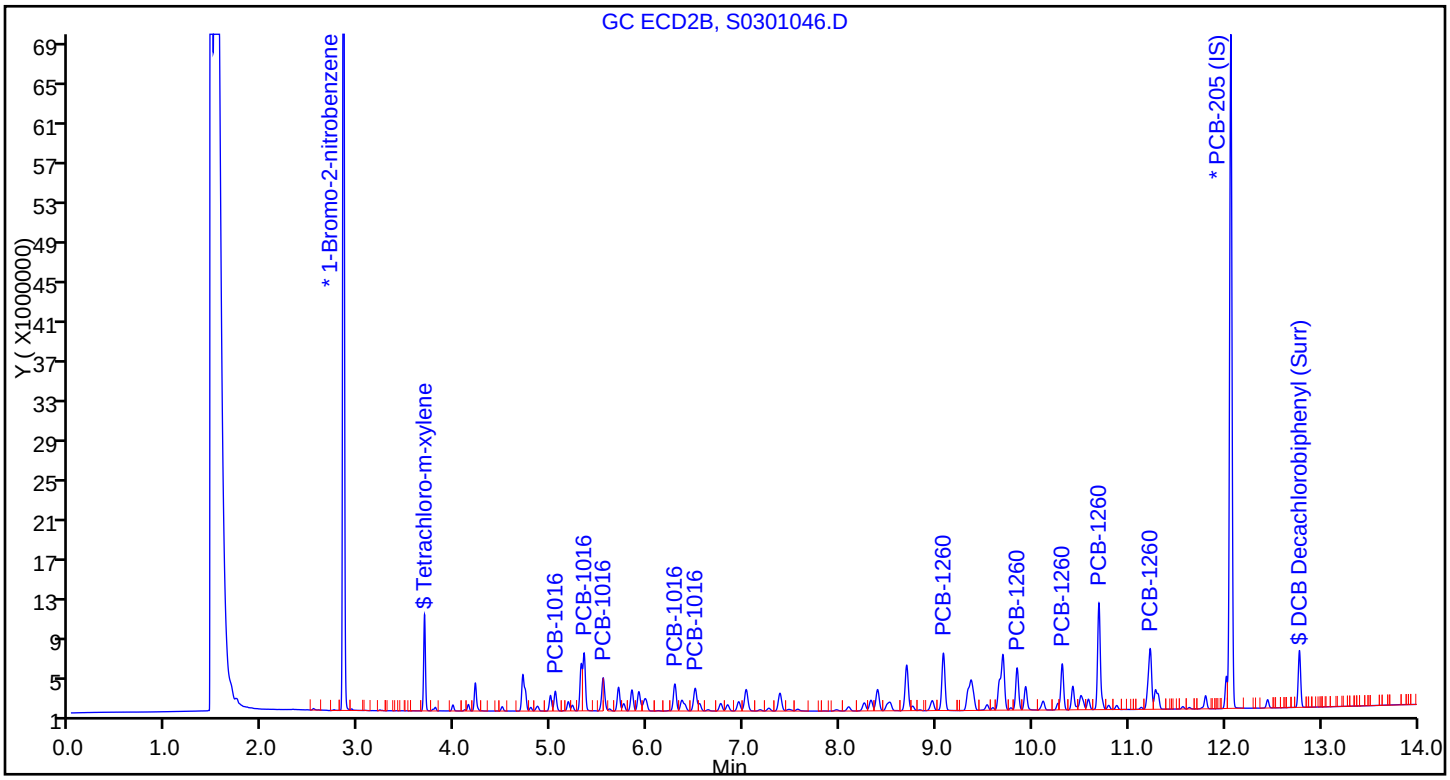
Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: IS PCB_CHGC10DUAL Limit Group: GCS 8082A ICAL with IS

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\S0301047.D
Lims ID: ICIS
Client ID:
Sample Type: ICIS Calib Level: 4
Inject. Date: 01-Mar-2018 19:30:34 ALS Bottle#: 23 Worklist Smp#: 23
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0020692-023
Operator ID: Instrument ID: CHGC10
Sublist: chrom-IS PCB_CHGC10DUAL*sub25

Method: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\IS PCB_CHGC10DUAL.m
Limit Group: GCS 8082A ICAL with IS
Last Update: 02-Mar-2018 05:56:12 Calib Date: 01-Mar-2018 20:27:10
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\S0301050.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK021

First Level Reviewer: oravecj Date: 02-Mar-2018 05:08:38

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 1-Bromo-2-nitrobenzene							
1	2.595	2.595	0.000	166065581H	0.1000	0.1000	
2	2.836	2.836	0.000	102829961H	0.1000	0.1000	
$ 2 Tetrachloro-m-xylene							
1	3.186	3.186	0.000	47133759H	0.0250	0.0256	
2	3.679	3.679	0.000	22692841H	0.0250	0.0247	
						RPD = 3.94	
6 PCB-1016							
1	3.489	3.489	0.000	13418908H	0.5000	0.4923	
1	3.813	3.813	0.000	19907896H	0.5000	0.4986	
1	4.297	4.297	0.000	29941219H	0.5000	0.5092	
1	4.443	4.443	0.000	17202653H	0.5000	0.5033	
1	4.926	4.926	0.000	14280668H	0.5000	0.4928	
		Average of Peak Amounts =				0.4992	
2	5.038	5.038	0.000	4308528H	0.5000	0.4670	
2	5.338	5.338	0.000	13421997H	0.5000	0.4807	
2	5.538	5.538	0.000	7404222H	0.5000	0.4651	
2	6.281	6.281	0.000	5976603H	0.5000	0.4641	
2	6.493	6.493	0.000	4956294H	0.5000	0.4611	
		Average of Peak Amounts =				0.4676	
						RPD = 6.54	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
9 PCB-1260							
1	6.730	6.730	0.000	21197231H	0.5000	0.4938	
1	7.222	7.222	0.000	31526742H	0.5000	0.5020	
1	7.755	7.755	0.000	23884230H	0.5000	0.5175	
1	9.032	9.032	0.000	43923306H	0.5000	0.5086	
1	9.508	9.508	0.000	23825178H	0.5000	0.4925	
		Average of Peak Amounts =				0.5029	
2	9.075	9.075	0.000	12833536H	0.5000	0.4990	
2	9.841	9.841	0.000	9027943H	0.5000	0.4926	
2	10.311	10.311	0.000	9936577H	0.5000	0.4955	
2	10.693	10.693	0.000	23871212H	0.5000	0.5090	
2	11.226	11.226	0.000	13290665H	0.5000	0.5065	
		Average of Peak Amounts =				0.5005	
						RPD = 0.47	
* 46 PCB-205 (IS)							
1	10.573	10.573	0.000	112851236H	0.1000	0.1000	
2	12.064	12.064	0.000	58039675H	0.1000	0.1000	
$ 12 DCB Decachlorobiphenyl (Surr)							
1	11.178	11.178	0.000	24267529H	0.0250	0.0243	
2	12.779	12.779	0.000	12046400H	0.0250	0.0246	
						RPD = 1.13	

Reagents:

GCAR1660CALL4_00016	Amount Added:	1.00	Units: mL	
PCBINT_00007	Amount Added:	0.01	Units: mL	Run Reagent

Report Date: 02-Mar-2018 05:56:15 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\S0301047.D

Injection Date: 01-Mar-2018 19:30:34 Instrument ID: CHGC10

Lims ID: ICIS

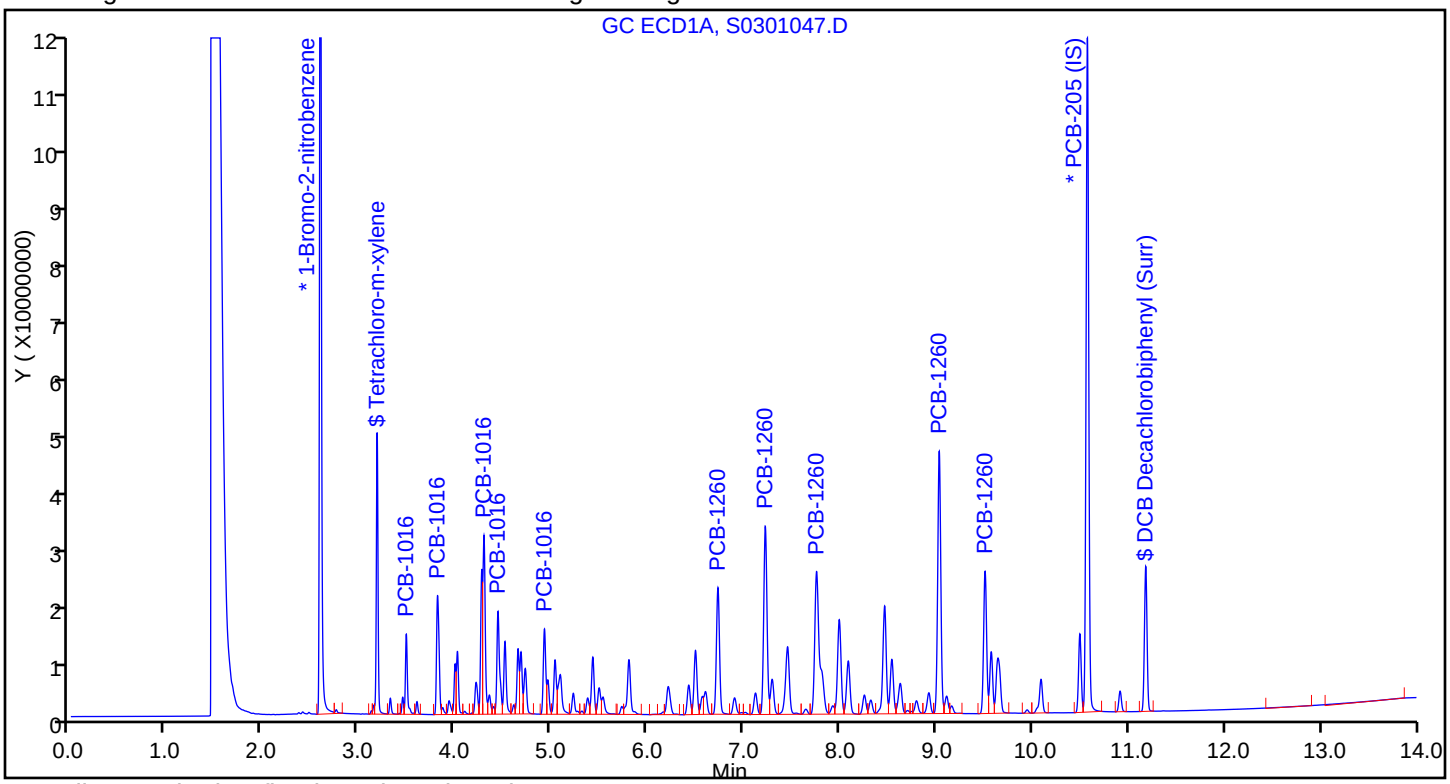
Client ID:

Operator ID: ALS Bottle#: 23 Worklist Smp#: 23

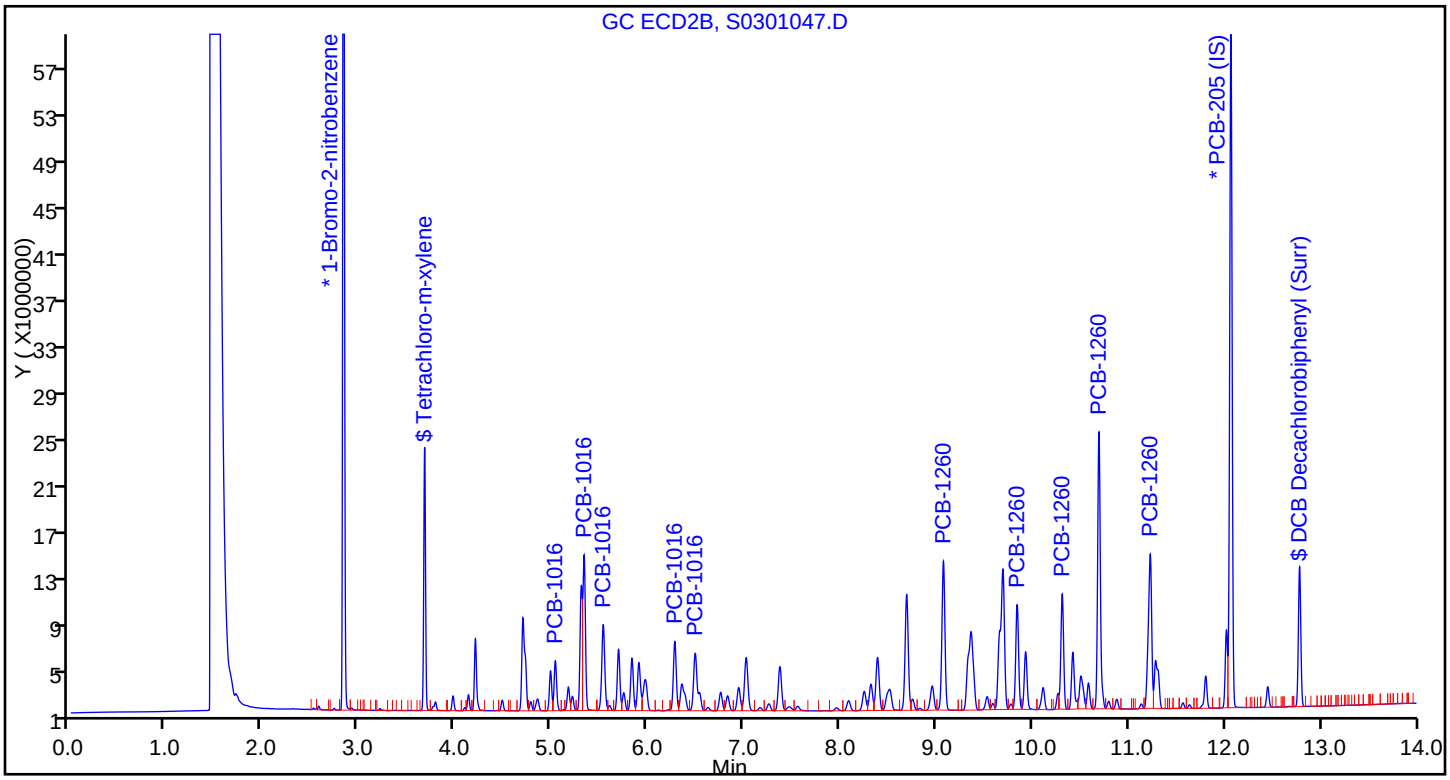
Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: IS PCB_CHGC10DUAL Limit Group: GCS 8082A ICAL with IS

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\S0301048.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 01-Mar-2018 19:49:27 ALS Bottle#: 24 Worklist Smp#: 24
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0020692-024
Operator ID: Instrument ID: CHGC10
Sublist: chrom-IS PCB_CHGC10DUAL*sub25

Method: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\IS PCB_CHGC10DUAL.m
Limit Group: GCS 8082A ICAL with IS
Last Update: 02-Mar-2018 05:56:10 Calib Date: 01-Mar-2018 20:27:10
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\S0301050.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK021

First Level Reviewer: oravecj Date: 02-Mar-2018 05:10:18

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 1-Bromo-2-nitrobenzene							
1	2.595	2.595	0.000	177097958H	0.1000	0.1000	
2	2.836	2.836	0.000	110697353H	0.1000	0.1000	
$ 2 Tetrachloro-m-xylene							
1	3.186	3.186	0.000	96113153H	0.0500	0.0490	
2	3.679	3.679	0.000	50024159H	0.0500	0.0505	
						RPD = 2.91	
6 PCB-1016							
1	3.488	3.489	-0.001	26697942H	1.00	0.9184	
1	3.813	3.813	0.000	38544005H	1.00	0.9052	
1	4.295	4.297	-0.002	64404369H	1.00	1.03	
1	4.441	4.443	-0.002	36502465H	1.00	1.00	
1	4.925	4.926	-0.001	30108486H	1.00	0.9742	
		Average of Peak Amounts =				0.9652	
2	5.039	5.038	0.001	8973315H	1.00	0.9035	
2	5.338	5.338	0.000	29521381H	1.00	0.9822	
2	5.537	5.538	-0.001	16091851H	1.00	0.9390	
2	6.282	6.281	0.001	12991392H	1.00	0.9371	
2	6.494	6.493	0.001	10789600H	1.00	0.9325	
		Average of Peak Amounts =				0.9389	
						RPD = 2.77	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
9 PCB-1260							
1	6.730	6.730	0.000	46181758H	1.00	0.8991	
1	7.223	7.222	0.001	67521304H	1.00	0.8985	
1	7.756	7.755	0.001	52601771H	1.00	0.9525	
1	9.032	9.032	0.000	95754714H	1.00	0.9267	
1	9.507	9.508	-0.001	53835937H	1.00	0.9301	
		Average of Peak Amounts =				0.9214	
2	9.075	9.075	0.000	28070324H	1.00	0.8642	
2	9.842	9.841	0.001	20123335H	1.00	0.8693	
2	10.310	10.311	-0.001	22284430H	1.00	0.8799	
2	10.693	10.693	0.000	54158409H	1.00	0.9144	
2	11.226	11.226	0.000	30000488H	1.00	0.9052	
		Average of Peak Amounts =				0.8866	
						RPD = 3.85	
* 46 PCB-205 (IS)							
1	10.572	10.573	0.000	135029858H	0.1000	0.1000	
2	12.065	12.064	0.000	73304389H	0.1000	0.1000	
$ 12 DCB Decachlorobiphenyl (Surr)							
1	11.180	11.178	0.002	53441003H	0.0500	0.0448	
2	12.779	12.779	0.000	26457467H	0.0500	0.0428	
						RPD = 4.54	

Reagents:

GCAR1660CALL5_00017	Amount Added: 1.00	Units: mL	
PCBINT_00007	Amount Added: 0.01	Units: mL	Run Reagent

Report Date: 02-Mar-2018 05:56:12 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\S0301048.D

Injection Date: 01-Mar-2018 19:49:27 Instrument ID: CHGC10

Lims ID: IC

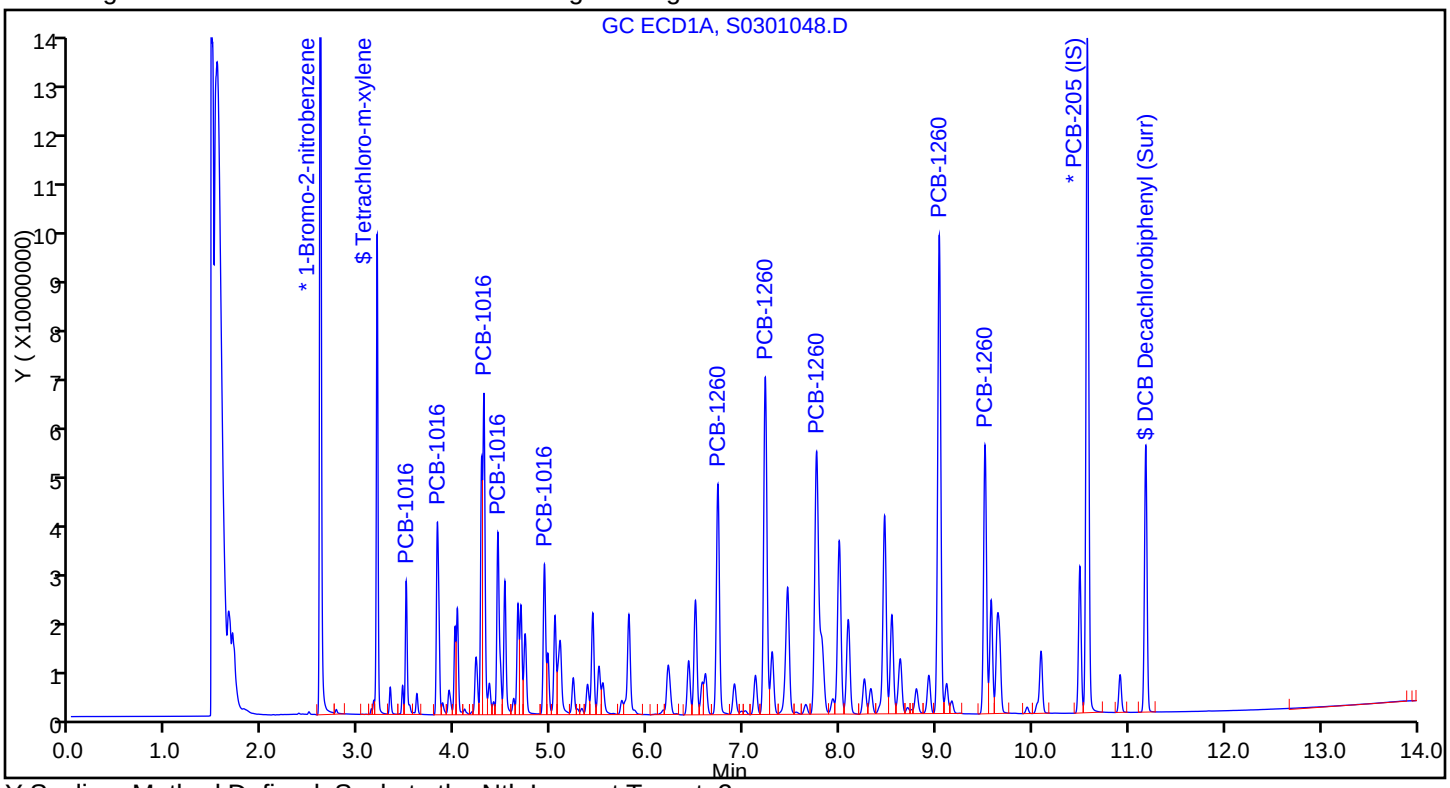
Client ID:

Operator ID: ALS Bottle#: 24 Worklist Smp#: 24

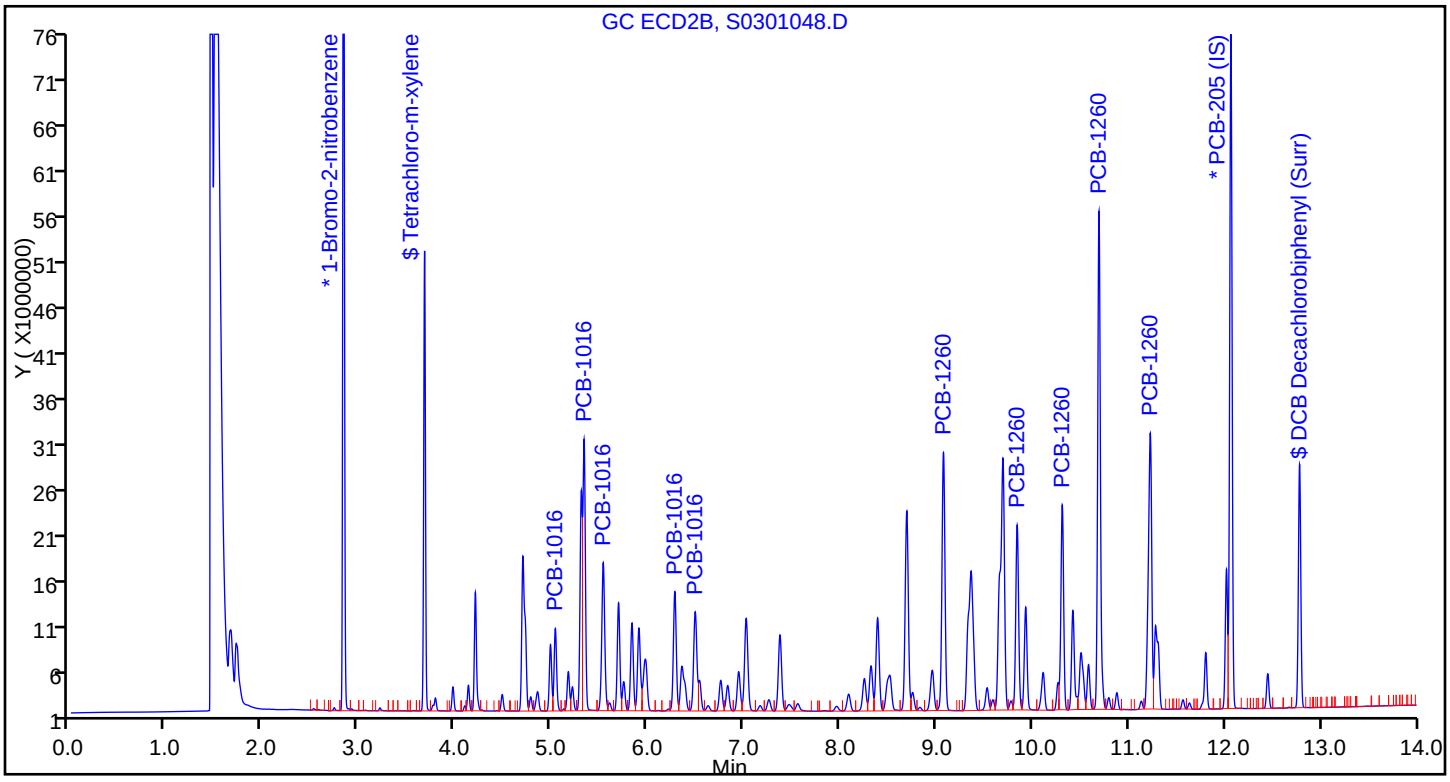
Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: IS PCB_CHGC10DUAL Limit Group: GCS 8082A ICAL with IS

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\S0301049.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 01-Mar-2018 20:08:20 ALS Bottle#: 25 Worklist Smp#: 25
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0020692-025
Operator ID: Instrument ID: CHGC10
Sublist: chrom-IS PCB_CHGC10DUAL*sub25

Method: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\IS PCB_CHGC10DUAL.m
Limit Group: GCS 8082A ICAL with IS
Last Update: 02-Mar-2018 05:56:06 Calib Date: 01-Mar-2018 20:27:10
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\S0301050.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK021

First Level Reviewer: oravecj Date: 02-Mar-2018 05:10:29

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 1-Bromo-2-nitrobenzene							
1	2.596	2.595	0.000	169468674H	0.1000	0.1000	
2	2.836	2.836	0.000	103485121H	0.1000	0.1000	
$ 2 Tetrachloro-m-xylene							
1	3.186	3.186	0.000	181464925H	0.1000	0.0968	
2	3.680	3.679	0.001	92318284H	0.1000	0.0997	
						RPD = 2.96	
6 PCB-1016							
1	3.488	3.489	-0.001	48226266H	2.00	1.73	
1	3.814	3.813	0.001	69732794H	2.00	1.71	
1	4.296	4.297	-0.001	116523901H	2.00	1.94	
1	4.441	4.443	-0.002	65114999H	2.00	1.87	
1	4.925	4.926	-0.001	53199226H	2.00	1.80	
		Average of Peak Amounts =				1.81	
2	5.039	5.038	0.001	15914033H	2.00	1.71	
2	5.339	5.338	0.001	52624259H	2.00	1.87	
2	5.537	5.538	-0.001	28671977H	2.00	1.79	
2	6.282	6.281	0.001	22861464H	2.00	1.76	
2	6.494	6.493	0.001	19362899H	2.00	1.79	
		Average of Peak Amounts =				1.79	
						RPD = 1.35	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
9 PCB-1260							
1	6.730	6.730	0.000	78955095H	2.00	1.89	
1	7.222	7.222	0.000	115152127H	2.00	1.89	
1	7.756	7.755	0.001	90944254H	2.00	2.03	
1	9.031	9.032	-0.001	162268173H	2.00	1.93	
1	9.507	9.508	-0.001	90226075H	2.00	1.92	
		Average of Peak Amounts =				1.93	
2	9.076	9.075	0.001	49759292H	2.00	1.91	
2	9.842	9.841	0.001	35249989H	2.00	1.90	
2	10.311	10.311	0.000	39149077H	2.00	1.93	
2	10.693	10.693	0.000	93831366H	2.00	1.97	
2	11.226	11.226	0.000	51202378H	2.00	1.92	
		Average of Peak Amounts =				1.93	
						RPD = 0.28	
* 46 PCB-205 (IS)							
1	10.572	10.573	0.000	109709117H	0.1000	0.1000	
2	12.066	12.064	0.001	58839713H	0.1000	0.1000	
$ 12 DCB Decachlorobiphenyl (Surr)							
1	11.178	11.178	0.000	88793916H	0.1000	0.0916	
2	12.779	12.779	0.000	45236414H	0.1000	0.0911	
						RPD = 0.47	

Reagents:

GCAR1660CALL6_00015	Amount Added:	1.00	Units: mL	
PCBINT_00007	Amount Added:	0.01	Units: mL	Run Reagent

Report Date: 02-Mar-2018 05:56:09 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\S0301049.D

Injection Date: 01-Mar-2018 20:08:20 Instrument ID: CHGC10

Lims ID: IC

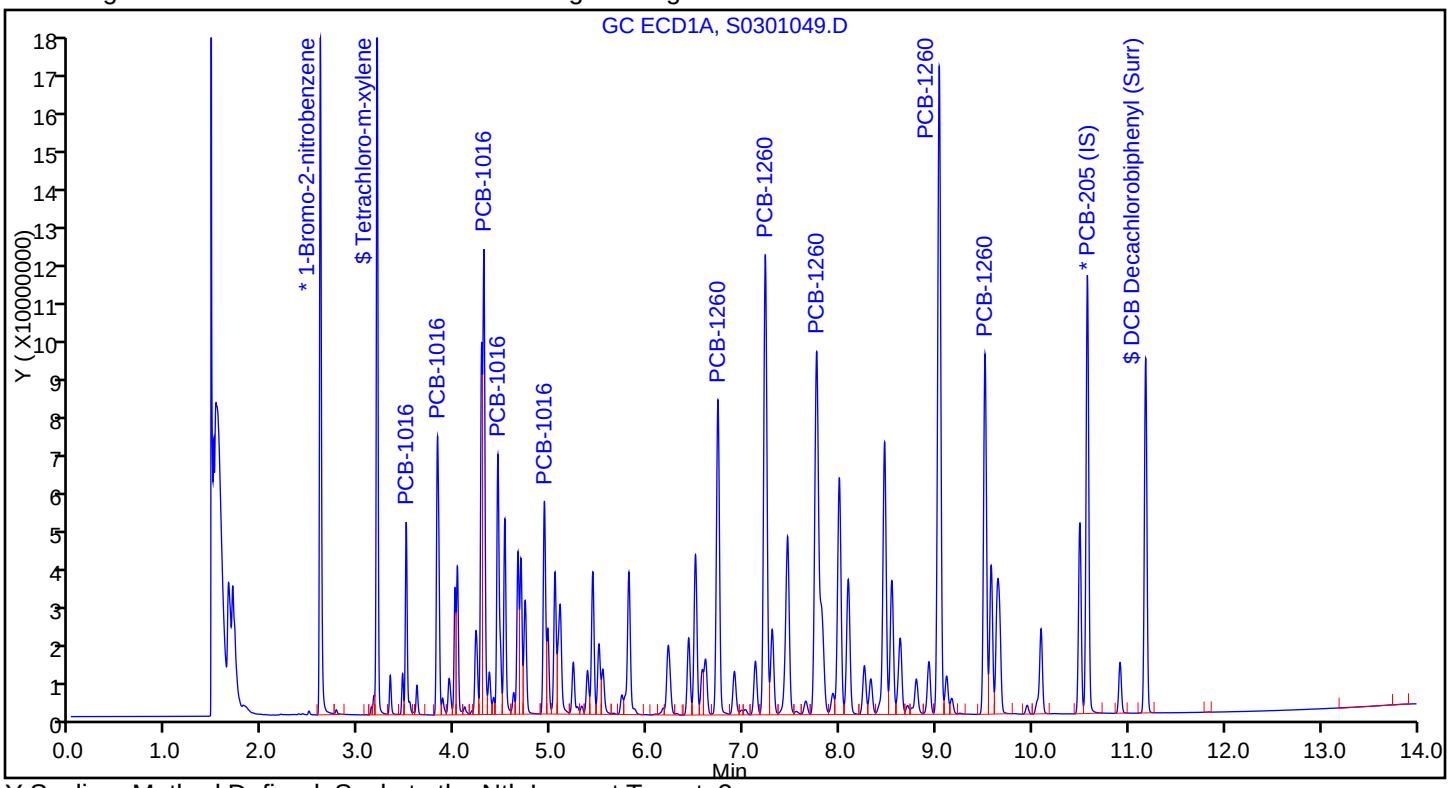
Client ID:

Operator ID: ALS Bottle#: 25 Worklist Smp#: 25

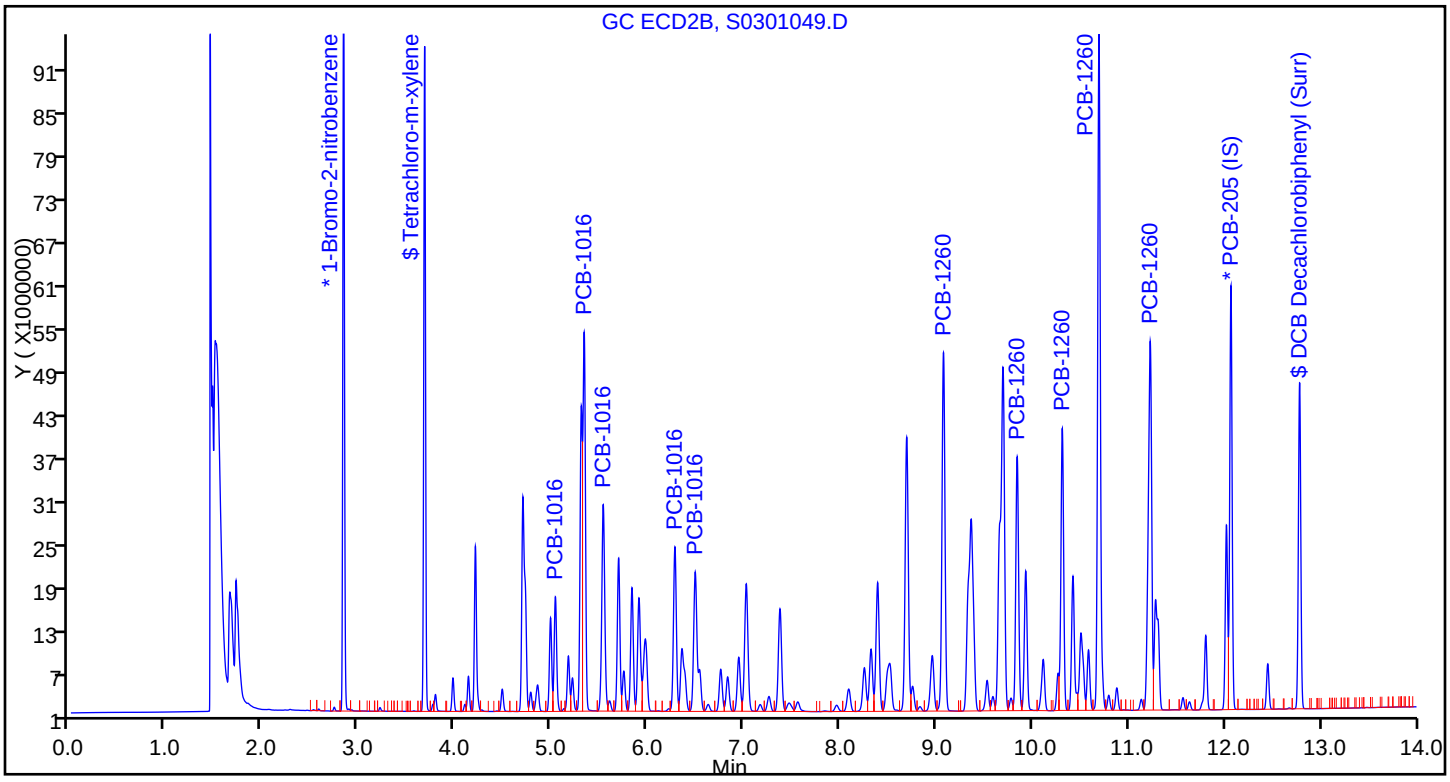
Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: IS PCB_CHGC10DUAL Limit Group: GCS 8082A ICAL with IS

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\S0301050.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 01-Mar-2018 20:27:10 ALS Bottle#: 26 Worklist Smp#: 26
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0020692-026
Operator ID: Instrument ID: CHGC10
Sublist: chrom-IS PCB_CHGC10DUAL*sub25

Method: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\IS PCB_CHGC10DUAL.m
Limit Group: GCS 8082A ICAL with IS
Last Update: 02-Mar-2018 05:56:01 Calib Date: 01-Mar-2018 20:27:10
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\S0301050.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK021

First Level Reviewer: oravecj Date: 02-Mar-2018 05:10:38

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 1-Bromo-2-nitrobenzene							
1	2.595	2.595	0.000	166153397H	0.1000	0.1000	
2	2.837	2.836	0.001	100044187H	0.1000	0.1000	
$ 2 Tetrachloro-m-xylene							
1	3.186	3.186	0.000	346996189H	0.2000	0.1887	
2	3.680	3.679	0.001	184408539H	0.2000	0.2060	
						RPD = 8.73	
6 PCB-1016							
1	3.488	3.489	-0.001	93304714H	4.00	3.42	
1	3.813	3.813	0.000	130100605H	4.00	3.26	
1	4.295	4.297	-0.002	224605905H	4.00	3.82	
1	4.441	4.443	-0.002	126649874H	4.00	3.70	
1	4.925	4.926	-0.001	103991260H	4.00	3.59	
		Average of Peak Amounts =				3.56	
2	5.040	5.038	0.002	31415664H	4.00	3.50	
2	5.339	5.338	0.001	105303688H	4.00	3.88	
2	5.538	5.538	0.000	57341762H	4.00	3.70	
2	6.284	6.281	0.003	46457208H	4.00	3.71	
2	6.495	6.493	0.002	39974262H	4.00	3.82	
		Average of Peak Amounts =				3.72	
						RPD = 4.53	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
9 PCB-1260							
1	6.730	6.730	0.000	158527782H	4.00	3.40	
1	7.225	7.222	0.003	232935620H	4.00	3.42	
1	7.757	7.755	0.002	185526147H	4.00	3.70	
1	9.032	9.032	0.000	339367470H	4.00	3.62	
1	9.509	9.508	0.001	197400773H	4.00	3.76	
		Average of Peak Amounts =				3.58	
2	9.077	9.075	0.002	105078104H	4.00	3.70	
2	9.845	9.841	0.004	74985085H	4.00	3.71	
2	10.313	10.311	0.002	83774146H	4.00	3.78	
2	10.695	10.693	0.002	200492087H	4.00	3.87	
2	11.228	11.226	0.002	112403883H	4.00	3.88	
		Average of Peak Amounts =				3.79	
						RPD = 5.63	
* 46 PCB-205 (IS)							
1	10.574	10.573	0.001	122453642H	0.1000	0.1000	
2	12.067	12.064	0.003	64066096H	0.1000	0.1000	
$ 12 DCB Decachlorobiphenyl (Surr)							
1	11.180	11.178	0.002	195822325H	0.2000	0.1809	
2	12.780	12.779	0.001	101153378H	0.2000	0.1872	
						RPD = 3.40	

Reagents:

GCAR1660CALL7_00016	Amount Added:	1.00	Units: mL	
PCBINT_00007	Amount Added:	0.01	Units: mL	Run Reagent

Report Date: 02-Mar-2018 05:56:03 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\S0301050.D

Injection Date: 01-Mar-2018 20:27:10 Instrument ID: CHGC10

Lims ID: IC

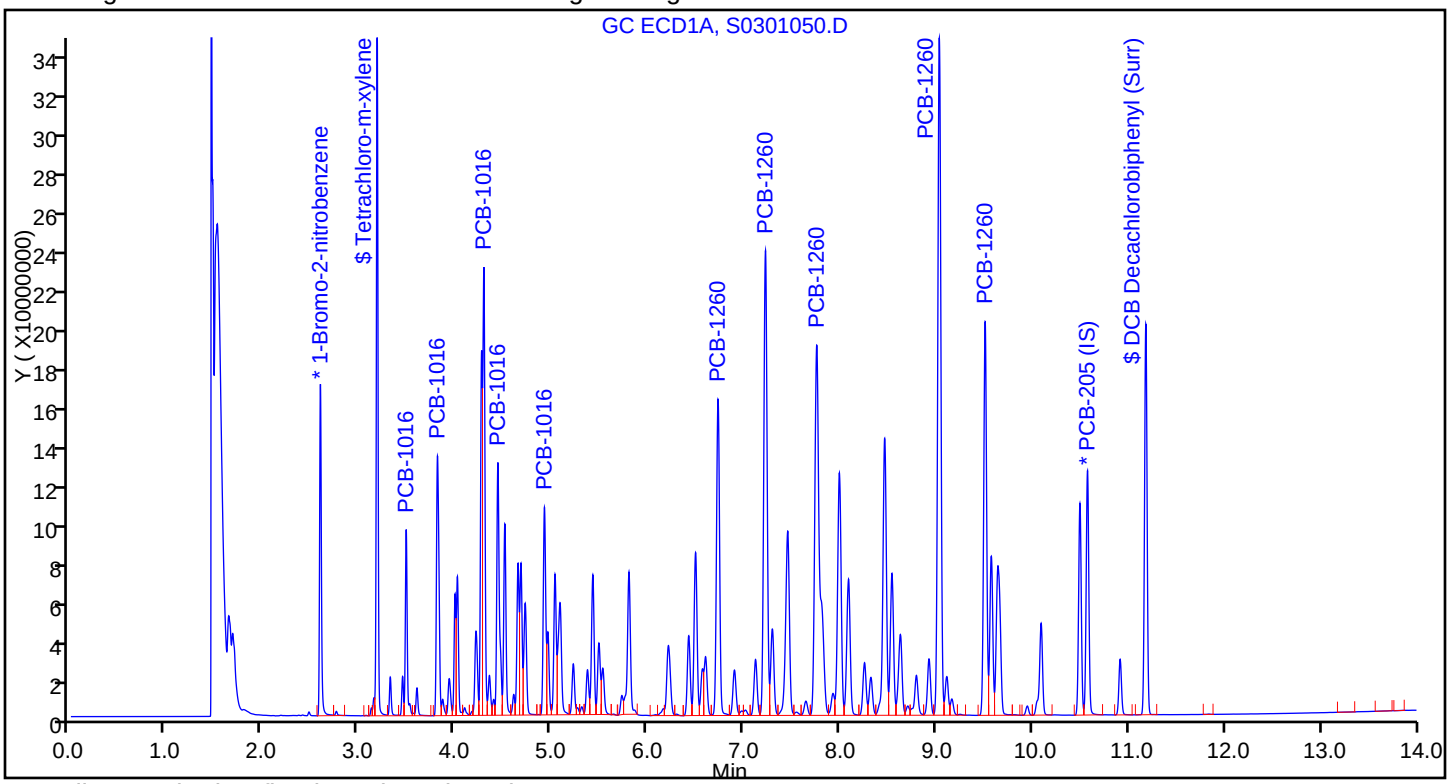
Client ID:

Operator ID: ALS Bottle#: 26 Worklist Smp#: 26

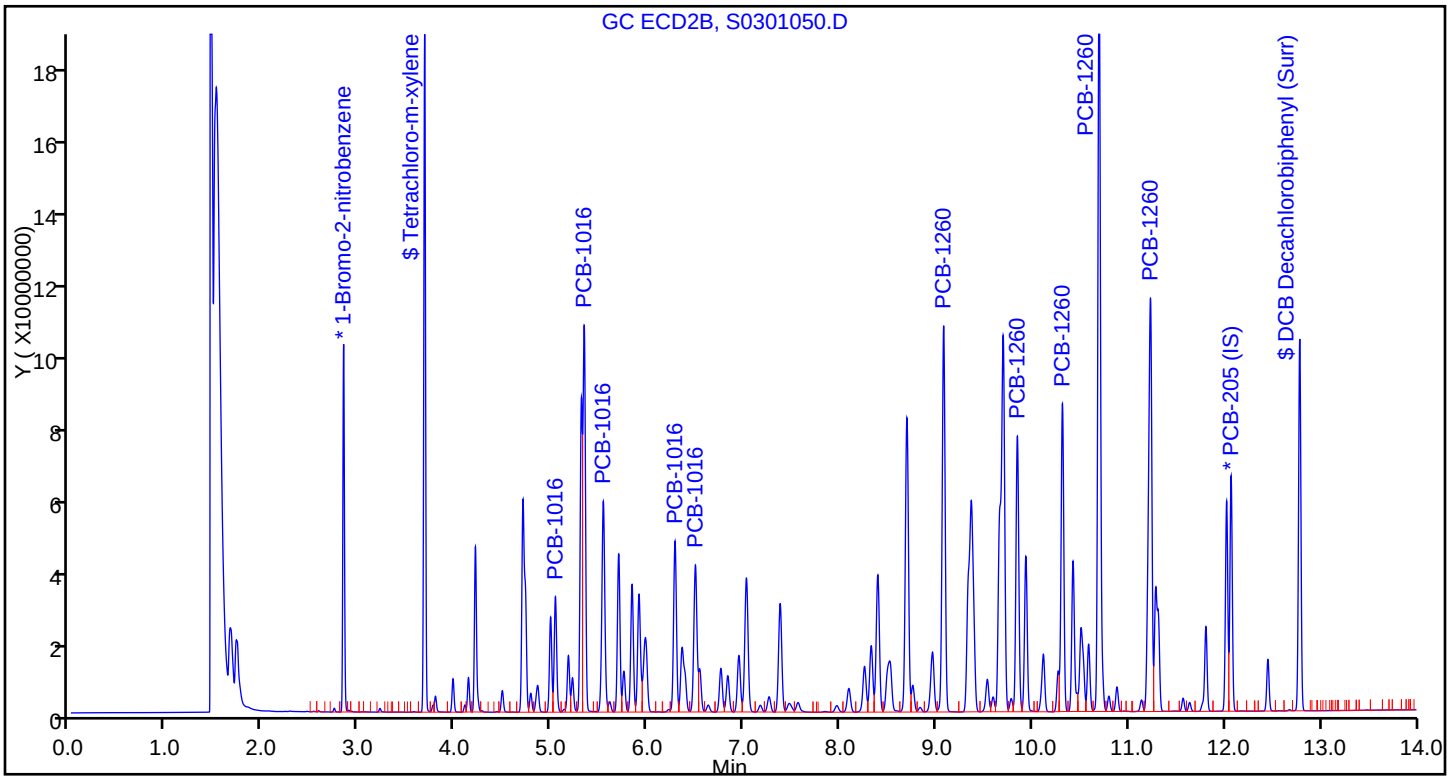
Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: IS PCB_CHGC10DUAL Limit Group: GCS 8082A ICAL with IS

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Pittsburgh Job No.: 180-78164-1

SDG No.:

Lab Sample ID: CCVIS 180-246135/16 Calibration Date: 05/30/2018 10:09

Instrument ID: CHGC10 Calib Start Date: 03/01/2018 18:33

GC Column: RTX-CLP1 ID: 0.53(mm) Calib End Date: 03/01/2018 20:27

Lab File ID: S0530016.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Ave	0.0164	0.0153		0.932	1.00	-6.8	20.0
PCB-1016 Peak 2	Ave	0.0240	0.0226		0.939	1.00	-6.1	20.0
PCB-1016 Peak 3	Ave	0.0354	0.0364		1.03	1.00	2.9	20.0
PCB-1016 Peak 4	Ave	0.0206	0.0208		1.01	1.00	1.0	20.0
PCB-1016 Peak 5	Ave	0.0175	0.0166		0.952	1.00	-4.8	20.0
PCB-1260 Peak 1	Ave	0.0380	0.0402		1.06	1.00	5.6	20.0
PCB-1260 Peak 2	Ave	0.0557	0.0584		1.05	1.00	5.0	20.0
PCB-1260 Peak 3	Ave	0.0409	0.0464		1.13	1.00	13.4	20.0
PCB-1260 Peak 4	Ave	0.0765	0.0835		1.09	1.00	9.1	20.0
PCB-1260 Peak 5	Ave	0.0429	0.0452		1.06	1.00	5.5	20.0
Tetrachloro-m-xylene	Ave	1.107	1.077		0.0487	0.0500	-2.7	20.0
DCB Decachlorobiphenyl (Surr)	Ave	0.8839	0.8774		0.0496	0.0500	-0.7	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-78164-1

SDG No.:

Lab Sample ID: CCVIS 180-246135/16 Calibration Date: 05/30/2018 10:09

Instrument ID: CHGC10 Calib Start Date: 03/01/2018 18:33

GC Column: RTX-CLP1 ID: 0.53(mm) Calib End Date: 03/01/2018 20:27

Lab File ID: S0530016.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1016 Peak 1	3.48	3.46	3.50
PCB-1016 Peak 2	3.80	3.78	3.82
PCB-1016 Peak 3	4.28	4.26	4.30
PCB-1016 Peak 4	4.42	4.40	4.44
PCB-1016 Peak 5	4.90	4.88	4.92
PCB-1260 Peak 1	6.70	6.68	6.72
PCB-1260 Peak 2	7.19	7.17	7.21
PCB-1260 Peak 3	7.72	7.70	7.74
PCB-1260 Peak 4	9.00	8.98	9.02
PCB-1260 Peak 5	9.47	9.45	9.49
Tetrachloro-m-xylene	3.18	3.16	3.20
DCB Decachlorobiphenyl (Surr)	11.14	11.12	11.16

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180530-21981.b\S0530016.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 30-May-2018 10:09:51 ALS Bottle#: 16 Worklist Smp#: 16
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0021981-016
Operator ID: Instrument ID: CHGC10
Sublist: chrom-IS PCB_CHGC10DUAL*sub25

Method: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180530-21981.b\IS PCB_CHGC10DUAL.m
Limit Group: GCS 8082A ICAL with IS
Last Update: 30-May-2018 11:16:29 Calib Date: 01-Mar-2018 20:27:10
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\S0301050.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK015

First Level Reviewer: oravecj Date: 30-May-2018 11:16:03

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 1-Bromo-2-nitrobenzene							
1	2.589	2.589	0.000	189521195H	0.1000	0.1000	
2	2.836	2.836	0.000	120573446H	0.1000	0.1000	
$ 2 Tetrachloro-m-xylene							
1	3.175	3.175	0.000	102039324H	0.0500	0.0487	
2	3.675	3.675	0.000	54838050H	0.0500	0.0508	
						RPD = 4.35	
6 PCB-1016							
1	3.476	3.476	0.000	28982182H	1.00	0.9316	
1	3.798	3.798	0.000	42793427H	1.00	0.9391	
1	4.278	4.278	0.000	69023653H	1.00	1.03	
1	4.423	4.423	0.000	39392642H	1.00	1.01	
1	4.903	4.903	0.000	31496765H	1.00	0.9523	
		Average of Peak Amounts =				0.9723	
2	5.032	5.032	0.000	9630134H	1.00	0.8902	
2	5.331	5.331	0.000	32425162H	1.00	0.99	
2	5.529	5.529	0.000	17516021H	1.00	0.9384	
2	6.273	6.273	0.000	14051178H	1.00	0.9305	
2	6.485	6.485	0.000	11974360H	1.00	0.9502	
		Average of Peak Amounts =				0.9400	
						RPD = 3.38	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
9 PCB-1260							
1	6.700	6.700	0.000	48340419H	1.00	1.06	
1	7.190	7.190	0.000	70346665H	1.00	1.05	
1	7.719	7.719	0.000	55845338H	1.00	1.13	
1	8.996	8.996	0.000	100452674H	1.00	1.09	
1	9.472	9.472	0.000	54459810H	1.00	1.06	
		Average of Peak Amounts =				1.08	
2	9.064	9.064	0.000	31332330H	1.00	1.04	
2	9.831	9.831	0.000	21537930H	1.00	1.00	
2	10.300	10.300	0.000	23555778H	1.00	1.00	
2	10.682	10.682	0.000	58258520H	1.00	1.06	
2	11.215	11.215	0.000	30769980H	1.00	1.00	
		Average of Peak Amounts =				1.02	
						RPD = 5.25	
* 46 PCB-205 (IS)							
1	10.534	10.534	0.000	120369380H	0.1000	0.1000	
2	12.053	12.053	0.000	67944059H	0.1000	0.1000	
$ 12 DCB Decachlorobiphenyl (Surr)							
1	11.140	11.140	0.000	52807445H	0.0500	0.0496	
2	12.764	12.764	0.000	27121977H	0.0500	0.0473	
						RPD = 4.77	

Reagents:

GCAR1660CALL5_00017	Amount Added:	1.00	Units: mL	
PCBINT_00007	Amount Added:	0.01	Units: mL	Run Reagent

Report Date: 30-May-2018 11:16:35 Chrom Revision: 2.2 11-May-2018 08:54:46

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180530-21981.b\S0530016.D

Injection Date: 30-May-2018 10:09:51 Instrument ID: CHGC10

Lims ID: CCVIS

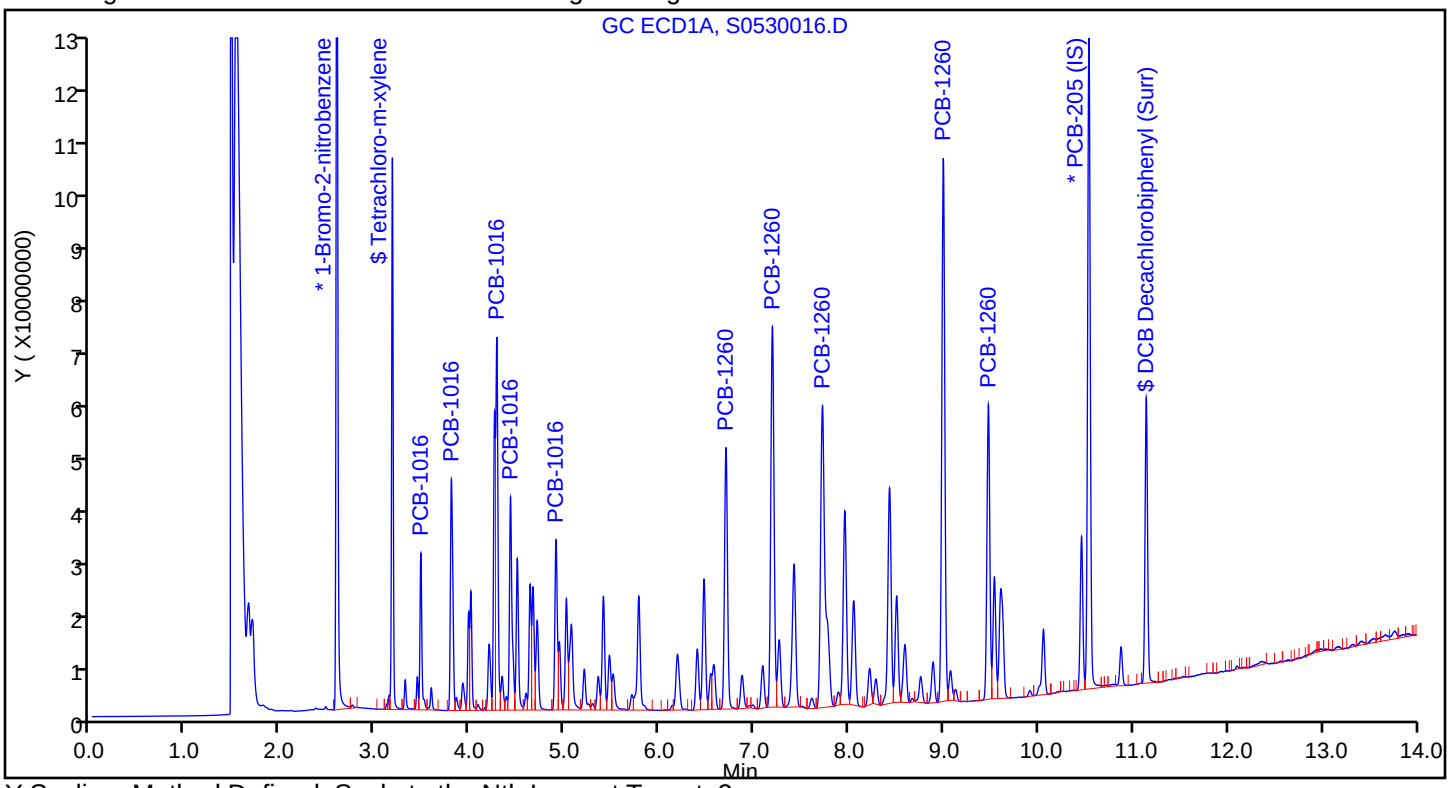
Client ID:

Operator ID: ALS Bottle#: 16 Worklist Smp#: 16

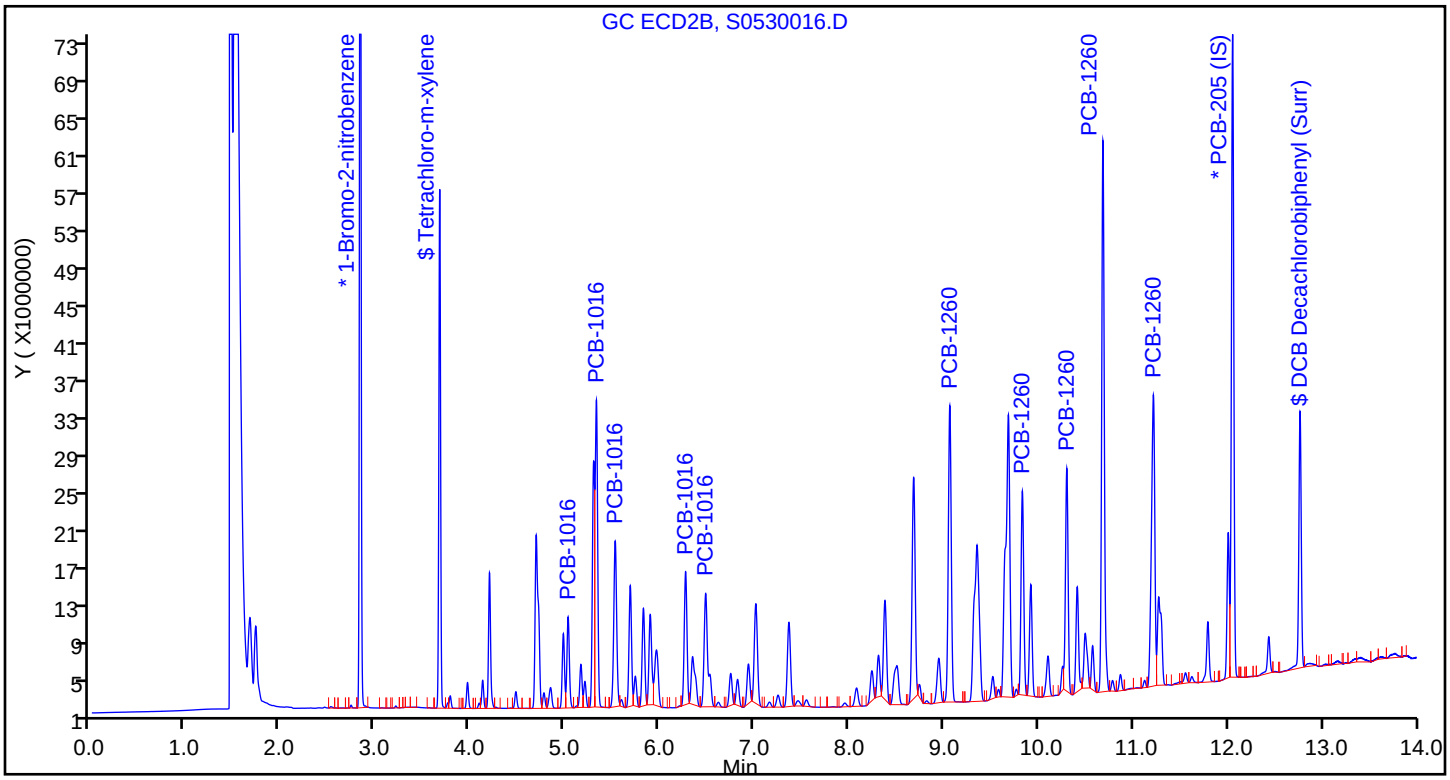
Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: IS PCB_CHGC10DUAL Limit Group: GCS 8082A ICAL with IS

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Pittsburgh Job No.: 180-78164-1

SDG No.:

Lab Sample ID: CCVIS 180-246135/16 Calibration Date: 05/30/2018 10:09

Instrument ID: CHGC10 Calib Start Date: 03/01/2018 18:33

GC Column: RTX-CLP2 ID: 0.53(mm) Calib End Date: 03/01/2018 20:27

Lab File ID: S0530016.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Ave	0.0090	0.0080		0.890	1.00	-11.0	20.0
PCB-1016 Peak 2	Ave	0.0272	0.0269		0.990	1.00	-1.0	20.0
PCB-1016 Peak 3	Ave	0.0155	0.0145		0.938	1.00	-6.2	20.0
PCB-1016 Peak 4	Ave	0.0125	0.0117		0.931	1.00	-6.9	20.0
PCB-1016 Peak 5	Ave	0.0105	0.0099		0.950	1.00	-5.0	20.0
PCB-1260 Peak 1	Ave	0.0443	0.0461		1.04	1.00	4.1	20.0
PCB-1260 Peak 2	Ave	0.0316	0.0317		1.00	1.00	0.4	20.0
PCB-1260 Peak 3	Ave	0.0345	0.0347		1.00	1.00	0.4	20.0
PCB-1260 Peak 4	Ave	0.0808	0.0857		1.06	1.00	6.1	20.0
PCB-1260 Peak 5	Ave	0.0452	0.0453		1.00	1.00	0.2	20.0
Tetrachloro-m-xylene	Ave	0.8950	0.9096		0.0508	0.0500	1.6	20.0
DCB Decachlorobiphenyl (Surr)	Ave	0.8436	0.7984		0.0473	0.0500	-5.4	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-78164-1

SDG No.:

Lab Sample ID: CCVIS 180-246135/16 Calibration Date: 05/30/2018 10:09

Instrument ID: CHGC10 Calib Start Date: 03/01/2018 18:33

GC Column: RTX-CLP2 ID: 0.53(mm) Calib End Date: 03/01/2018 20:27

Lab File ID: S0530016.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1016 Peak 1	5.03	5.01	5.05
PCB-1016 Peak 2	5.33	5.31	5.35
PCB-1016 Peak 3	5.53	5.51	5.55
PCB-1016 Peak 4	6.27	6.25	6.29
PCB-1016 Peak 5	6.49	6.47	6.51
PCB-1260 Peak 1	9.06	9.04	9.08
PCB-1260 Peak 2	9.83	9.81	9.85
PCB-1260 Peak 3	10.30	10.28	10.32
PCB-1260 Peak 4	10.68	10.66	10.70
PCB-1260 Peak 5	11.22	11.20	11.24
Tetrachloro-m-xylene	3.68	3.66	3.70
DCB Decachlorobiphenyl (Surr)	12.76	12.74	12.78

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180530-21981.b\S0530016.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 30-May-2018 10:09:51 ALS Bottle#: 16 Worklist Smp#: 16
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0021981-016
Operator ID: Instrument ID: CHGC10
Sublist: chrom-IS PCB_CHGC10DUAL*sub25

Method: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180530-21981.b\IS PCB_CHGC10DUAL.m
Limit Group: GCS 8082A ICAL with IS
Last Update: 30-May-2018 11:16:29 Calib Date: 01-Mar-2018 20:27:10
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\S0301050.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK015

First Level Reviewer: oravecj Date: 30-May-2018 11:16:03

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 1-Bromo-2-nitrobenzene							
1	2.589	2.589	0.000	189521195H	0.1000	0.1000	
2	2.836	2.836	0.000	120573446H	0.1000	0.1000	
$ 2 Tetrachloro-m-xylene							
1	3.175	3.175	0.000	102039324H	0.0500	0.0487	
2	3.675	3.675	0.000	54838050H	0.0500	0.0508	
						RPD = 4.35	
6 PCB-1016							
1	3.476	3.476	0.000	28982182H	1.00	0.9316	
1	3.798	3.798	0.000	42793427H	1.00	0.9391	
1	4.278	4.278	0.000	69023653H	1.00	1.03	
1	4.423	4.423	0.000	39392642H	1.00	1.01	
1	4.903	4.903	0.000	31496765H	1.00	0.9523	
		Average of Peak Amounts =				0.9723	
2	5.032	5.032	0.000	9630134H	1.00	0.8902	
2	5.331	5.331	0.000	32425162H	1.00	0.99	
2	5.529	5.529	0.000	17516021H	1.00	0.9384	
2	6.273	6.273	0.000	14051178H	1.00	0.9305	
2	6.485	6.485	0.000	11974360H	1.00	0.9502	
		Average of Peak Amounts =				0.9400	
						RPD = 3.38	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
9 PCB-1260							
1	6.700	6.700	0.000	48340419H	1.00	1.06	
1	7.190	7.190	0.000	70346665H	1.00	1.05	
1	7.719	7.719	0.000	55845338H	1.00	1.13	
1	8.996	8.996	0.000	100452674H	1.00	1.09	
1	9.472	9.472	0.000	54459810H	1.00	1.06	
		Average of Peak Amounts =				1.08	
2	9.064	9.064	0.000	31332330H	1.00	1.04	
2	9.831	9.831	0.000	21537930H	1.00	1.00	
2	10.300	10.300	0.000	23555778H	1.00	1.00	
2	10.682	10.682	0.000	58258520H	1.00	1.06	
2	11.215	11.215	0.000	30769980H	1.00	1.00	
		Average of Peak Amounts =				1.02	
						RPD = 5.25	
* 46 PCB-205 (IS)							
1	10.534	10.534	0.000	120369380H	0.1000	0.1000	
2	12.053	12.053	0.000	67944059H	0.1000	0.1000	
$ 12 DCB Decachlorobiphenyl (Surr)							
1	11.140	11.140	0.000	52807445H	0.0500	0.0496	
2	12.764	12.764	0.000	27121977H	0.0500	0.0473	
						RPD = 4.77	

Reagents:

GCAR1660CALL5_00017	Amount Added: 1.00	Units: mL	
PCBINT_00007	Amount Added: 0.01	Units: mL	Run Reagent

Report Date: 30-May-2018 11:16:36 Chrom Revision: 2.2 11-May-2018 08:54:46

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180530-21981.b\S0530016.D

Injection Date: 30-May-2018 10:09:51 Instrument ID: CHGC10

Lims ID: CCVIS

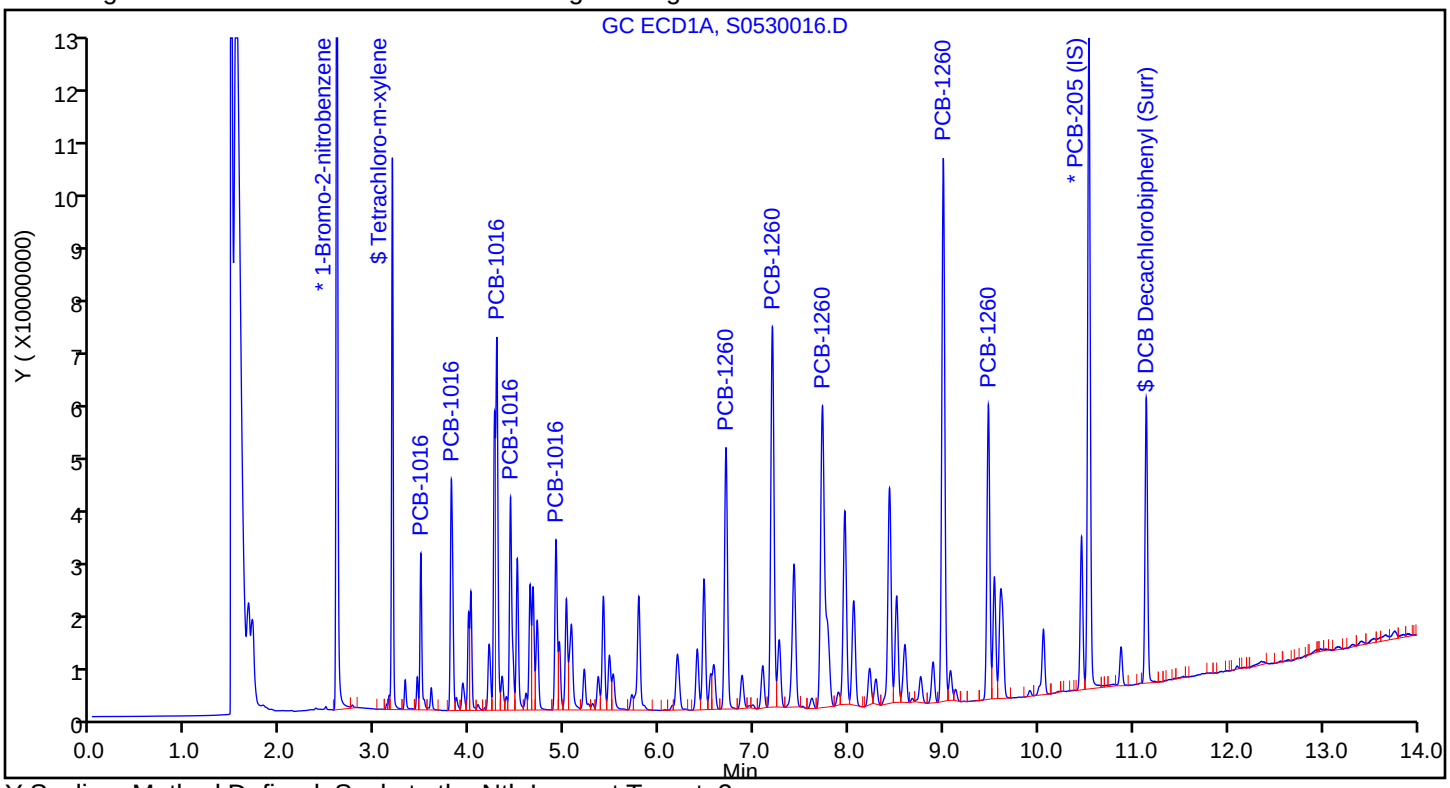
Client ID:

Operator ID: ALS Bottle#: 16 Worklist Smp#: 16

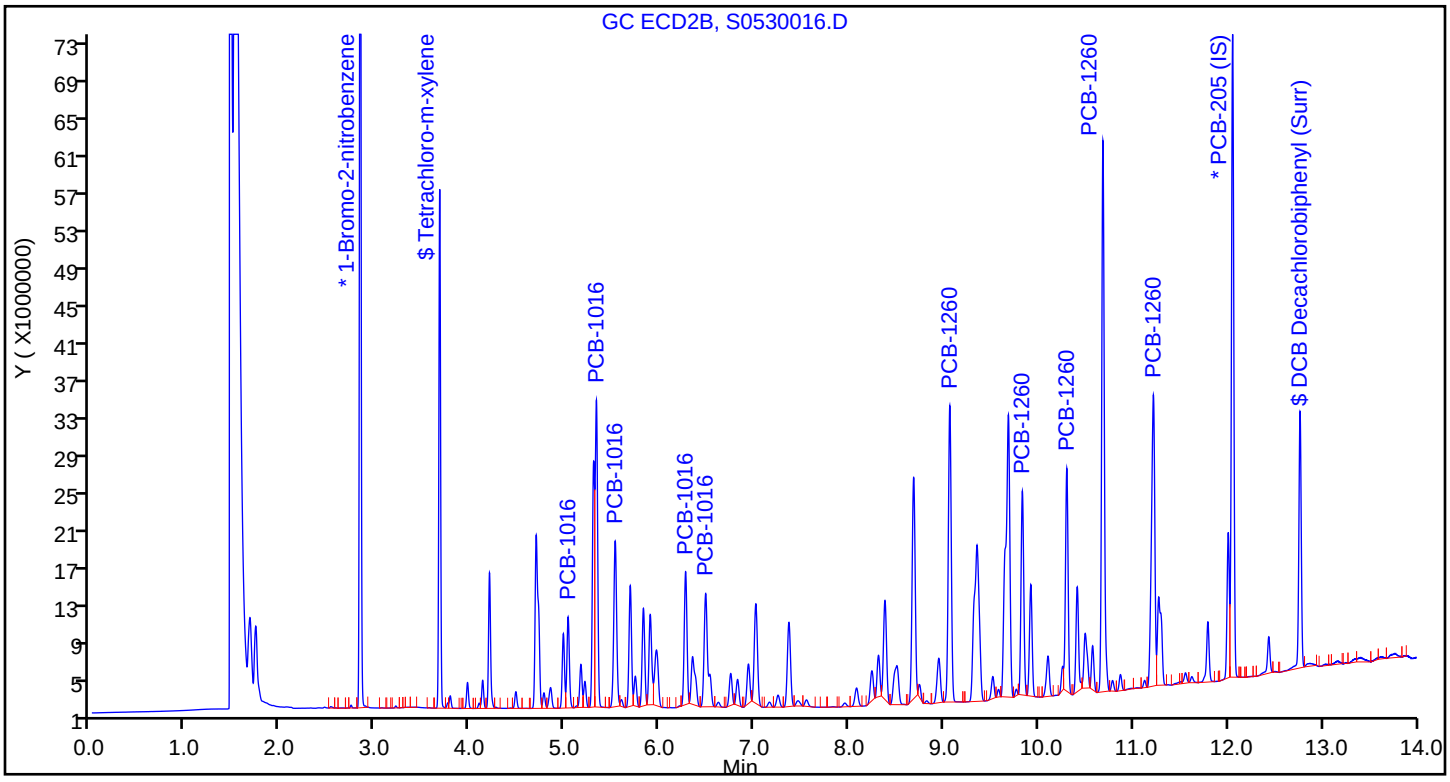
Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: IS PCB_CHGC10DUAL Limit Group: GCS 8082A ICAL with IS

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-78164-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 180-246110/1-A

Matrix: Water | Lab File ID: S0530017.D

Analysis Method: 8082A | Date Collected:

Extraction Method: 3510C | Date Extracted: 05/29/2018 14:00

Sample wt/vol: 1000(mL) | Date Analyzed: 05/30/2018 10:28

Con. Extract Vol.: 1.0(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RTX-CLP1 ID: 0.53(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 246135 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	Arochlor 1016	0.0048	U	0.010	0.0048
11104-28-2	Arochlor 1221	0.0057	U	0.010	0.0057
11141-16-5	Arochlor 1232	0.0052	U	0.010	0.0052
53469-21-9	Arochlor 1242	0.0091	U	0.010	0.0091
12672-29-6	Arochlor 1248	0.0030	U	0.010	0.0030
11097-69-1	Arochlor 1254	0.0095	U	0.010	0.0095
11096-82-5	Arochlor 1260	0.0039	U	0.010	0.0039

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl (Surr)	82		46-126
877-09-8	Tetrachloro-m-xylene	76		36-130

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180530-21981.b\S0530017.D
Lims ID: MB 180-246110/1-A
Client ID:
Sample Type: MB
Inject. Date: 30-May-2018 10:28:36 ALS Bottle#: 17 Worklist Smp#: 17
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0021981-017
Operator ID: Instrument ID: CHGC10

Method: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180530-21981.b\IS PCB_CHGC10DUAL.m
Limit Group: GCS 8082A ICAL with IS
Last Update: 31-May-2018 06:28:26 Calib Date: 01-Mar-2018 20:27:10
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\S0301050.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK028

First Level Reviewer: oravecj Date: 30-May-2018 11:16:14

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 1-Bromo-2-nitrobenzene							
1	2.588	2.585	0.003	219252926H	0.1000	0.1000	
2	2.836	2.831	0.005	140434624H	0.1000	0.1000	
$ 2 Tetrachloro-m-xylene							
1	3.175	3.173	0.002	36945212H	0.0200	0.0152	
2	3.675	3.672	0.003	20266421H	0.0200	0.0161	
						RPD = 5.72	
3 PCB-1221							
1		3.307				ND	
1		3.433					
1		3.471					
2		3.207					
2		3.964					
2		4.196					
4 PCB-1232							
1		3.308				ND	
1		3.795					
1		4.001					
1		4.421					
1		4.900					
2		3.966					
2		4.691					
2		5.028					
2		5.525					
2		5.684					

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
6 PCB-1016							
1		3.474				ND	
1		3.796					
1		4.276					
1		4.420					
1		4.901					
2		5.029					
2		5.327					
2		5.526					
2		6.270					
2		6.481					
5 PCB-1242							
1		3.475				ND	
1		4.278					
1		4.423					
1		4.903					
1		5.466					
2		4.694					
2		5.329					
2		5.528					
2		6.271					
2		7.021					
7 PCB-1248							
1		4.254				ND	
1		4.629					
1		4.901					
1		5.465					
1		5.784					
2		5.824					
2		6.269					
2		6.482					
2		6.934					
2		7.453					
8 PCB-1254							
1		5.397				ND	
1		5.771					
1		6.389					
1		6.860					
1		7.184					
2		7.357					
2		8.303					
2		9.058					
2		9.361					
2		9.679					

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
10 PCB-1262							
1		6.694				ND	
1		7.184					
1		7.950					
1		8.422					
1		9.531					
2		8.678					
2		9.826					
2		10.297					
2		10.678					
2		11.205					
9 PCB-1260							
1		6.696				ND	
1		7.186					
1		7.715					
1		8.992					
1		9.469					
2		9.060					
2		9.828					
2		10.298					
2		10.679					
2		11.212					
11 PCB-1268							
1		9.533				ND	
1		9.597					
1		9.906					
1		10.870					
2		11.200					
2		11.267					
2		11.620					
2		12.432					
* 46 PCB-205 (IS)							
1	10.533	10.528	0.005	142808812H	0.1000	0.1000	
2	12.053	12.048	0.004	79809486H	0.1000	0.1000	
$ 12 DCB Decachlorobiphenyl (Surr)							
1	11.140	11.137	0.003	20607844H	0.0200	0.0163	
2	12.765	12.762	0.003	10554045H	0.0200	0.0157	
						RPD = 4.06	
13 1260 Res 2							
1		0.000				ND	
2		0.000					
14 1260 Res 3							
1		0.000				ND	
2		0.000					
15 1260 Res 1							
1		0.000				ND	
2		0.000					

Reagents:

PCBINT_00007 Amount Added: 0.01 Units: mL Run Reagent

Report Date: 31-May-2018 06:29:16 Chrom Revision: 2.2 11-May-2018 08:54:46

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180530-21981.b\S0530017.D

Injection Date: 30-May-2018 10:28:36 Instrument ID: CHGC10

Lims ID: MB 180-246110/1-A

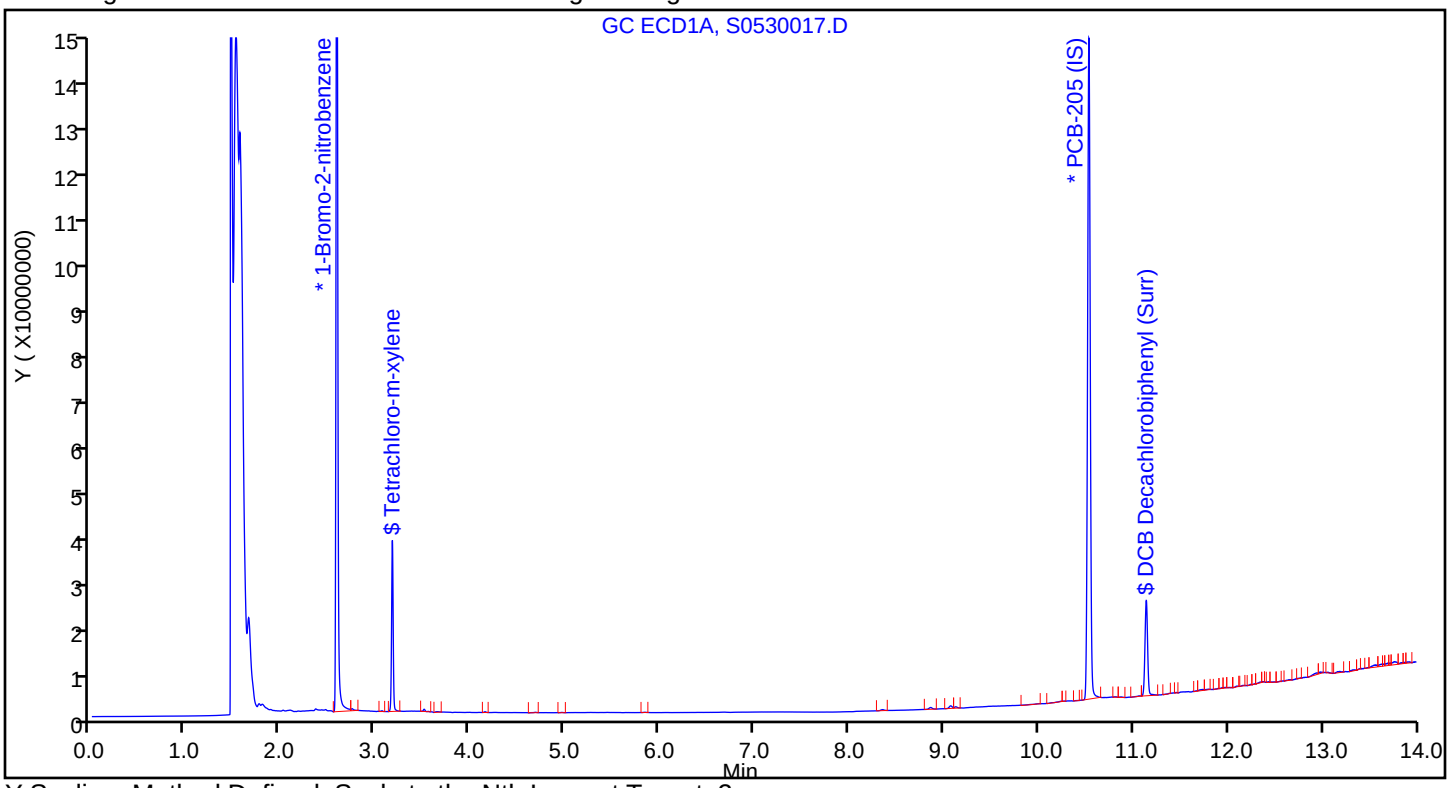
Client ID:

Operator ID: ALS Bottle#: 17 Worklist Smp#: 17

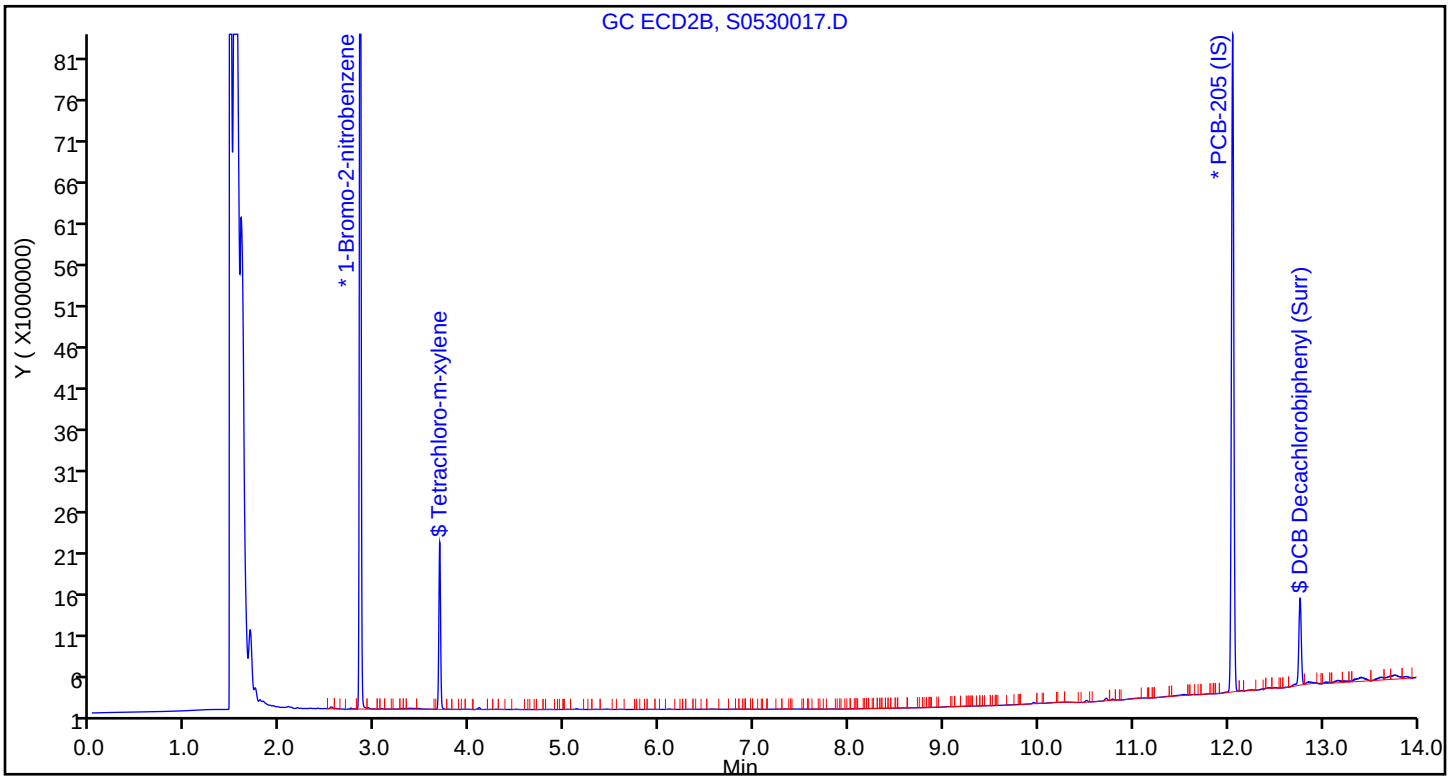
Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: IS PCB_CHGC10DUAL Limit Group: GCS 8082A ICAL with IS

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh Job No.: 180-78164-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 180-246110/1-A

Matrix: Water Lab File ID: S0530017.D

Analysis Method: 8082A Date Collected:

Extraction Method: 3510C Date Extracted: 05/29/2018 14:00

Sample wt/vol: 1000(mL) Date Analyzed: 05/30/2018 10:28

Con. Extract Vol.: 1.0(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: RTX-CLP2 ID: 0.53(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 246135 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl (Surr)	78		46-126
877-09-8	Tetrachloro-m-xylene	81		36-130

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180530-21981.b\S0530017.D
Lims ID: MB 180-246110/1-A
Client ID:
Sample Type: MB
Inject. Date: 30-May-2018 10:28:36 ALS Bottle#: 17 Worklist Smp#: 17
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0021981-017
Operator ID: Instrument ID: CHGC10

Method: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180530-21981.b\IS PCB_CHGC10DUAL.m
Limit Group: GCS 8082A ICAL with IS
Last Update: 31-May-2018 06:28:26 Calib Date: 01-Mar-2018 20:27:10
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\S0301050.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK028

First Level Reviewer: oravecj Date: 30-May-2018 11:16:14

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 1-Bromo-2-nitrobenzene							
1	2.588	2.585	0.003	219252926H	0.1000	0.1000	
2	2.836	2.831	0.005	140434624H	0.1000	0.1000	
$ 2 Tetrachloro-m-xylene							
1	3.175	3.173	0.002	36945212H	0.0200	0.0152	
2	3.675	3.672	0.003	20266421H	0.0200	0.0161	
						RPD = 5.72	
3 PCB-1221							
1		3.307				ND	
1		3.433					
1		3.471					
2		3.207					
2		3.964					
2		4.196					
4 PCB-1232							
1		3.308				ND	
1		3.795					
1		4.001					
1		4.421					
1		4.900					
2		3.966					
2		4.691					
2		5.028					
2		5.525					
2		5.684					

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
6 PCB-1016							
1		3.474				ND	
1		3.796					
1		4.276					
1		4.420					
1		4.901					
2		5.029					
2		5.327					
2		5.526					
2		6.270					
2		6.481					
5 PCB-1242							
1		3.475				ND	
1		4.278					
1		4.423					
1		4.903					
1		5.466					
2		4.694					
2		5.329					
2		5.528					
2		6.271					
2		7.021					
7 PCB-1248							
1		4.254				ND	
1		4.629					
1		4.901					
1		5.465					
1		5.784					
2		5.824					
2		6.269					
2		6.482					
2		6.934					
2		7.453					
8 PCB-1254							
1		5.397				ND	
1		5.771					
1		6.389					
1		6.860					
1		7.184					
2		7.357					
2		8.303					
2		9.058					
2		9.361					
2		9.679					

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
10 PCB-1262							
1		6.694				ND	
1		7.184					
1		7.950					
1		8.422					
1		9.531					
2		8.678					
2		9.826					
2		10.297					
2		10.678					
2		11.205					
9 PCB-1260							
1		6.696				ND	
1		7.186					
1		7.715					
1		8.992					
1		9.469					
2		9.060					
2		9.828					
2		10.298					
2		10.679					
2		11.212					
11 PCB-1268							
1		9.533				ND	
1		9.597					
1		9.906					
1		10.870					
2		11.200					
2		11.267					
2		11.620					
2		12.432					
* 46 PCB-205 (IS)							
1	10.533	10.528	0.005	142808812H	0.1000	0.1000	
2	12.053	12.048	0.004	79809486H	0.1000	0.1000	
$ 12 DCB Decachlorobiphenyl (Surr)							
1	11.140	11.137	0.003	20607844H	0.0200	0.0163	
2	12.765	12.762	0.003	10554045H	0.0200	0.0157	
						RPD = 4.06	
13 1260 Res 2							
1		0.000				ND	
2		0.000					
14 1260 Res 3							
1		0.000				ND	
2		0.000					
15 1260 Res 1							
1		0.000				ND	
2		0.000					

Reagents:

PCBINT_00007 Amount Added: 0.01 Units: mL Run Reagent

Report Date: 31-May-2018 06:29:17 Chrom Revision: 2.2 11-May-2018 08:54:46

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180530-21981.b\S0530017.D

Injection Date: 30-May-2018 10:28:36 Instrument ID: CHGC10

Lims ID: MB 180-246110/1-A

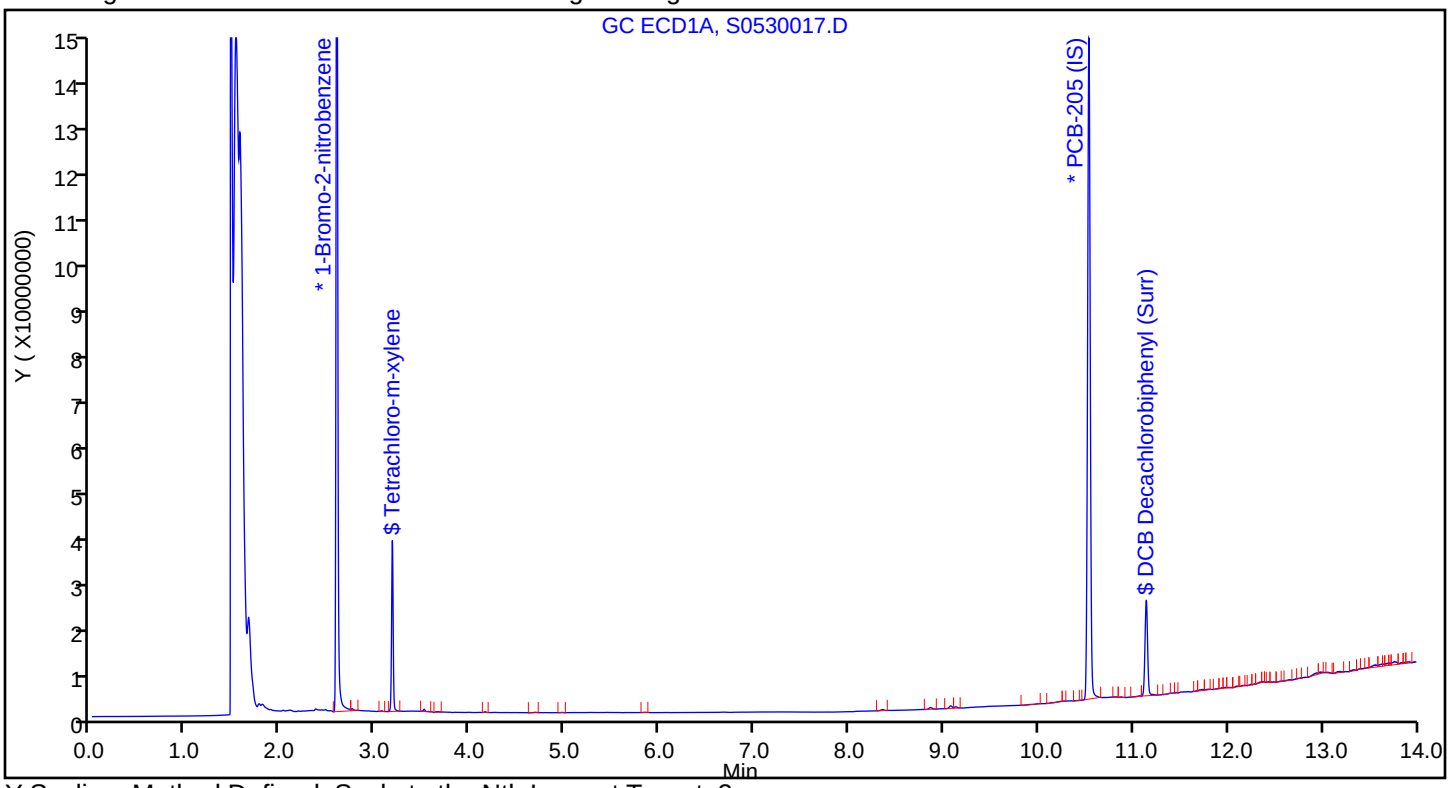
Client ID:

Operator ID: ALS Bottle#: 17 Worklist Smp#: 17

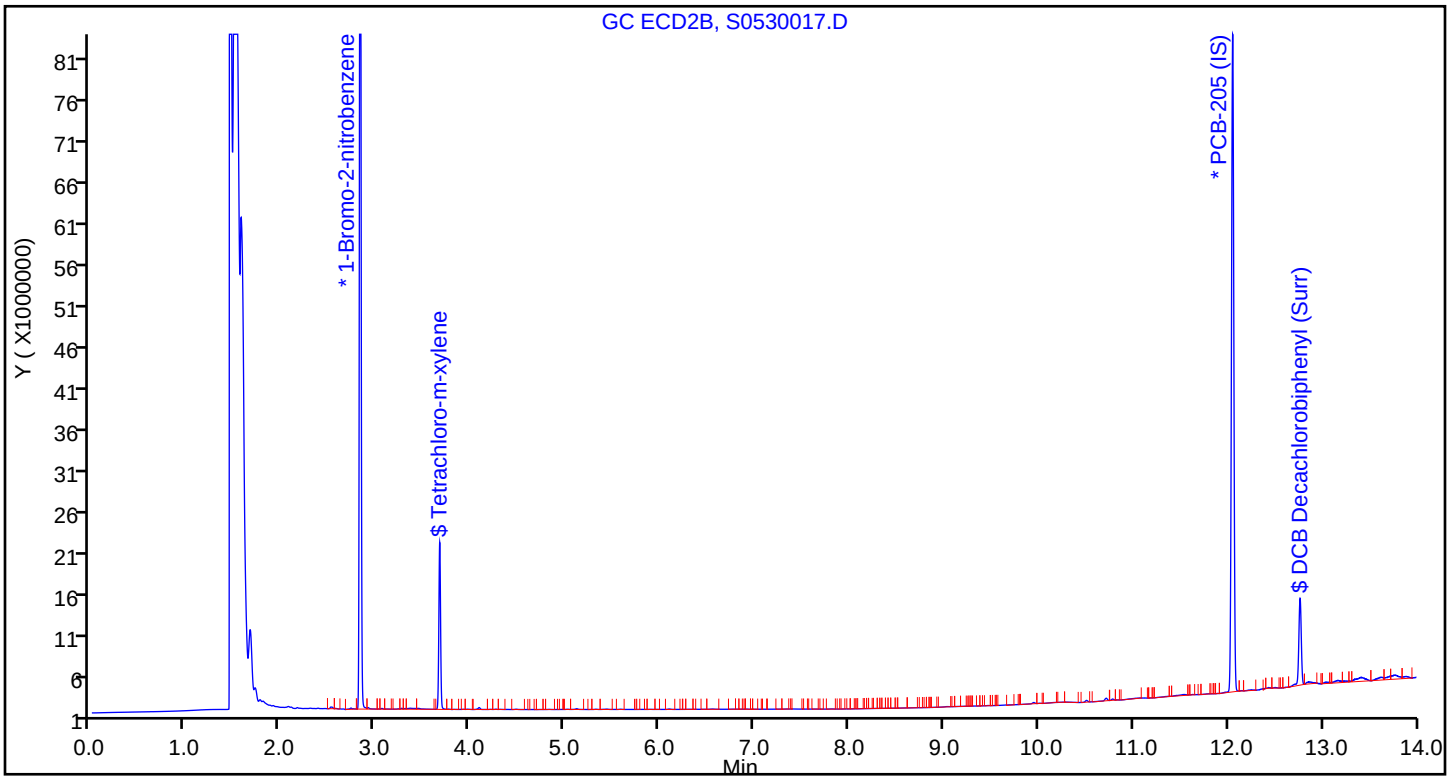
Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: IS PCB_CHGC10DUAL Limit Group: GCS 8082A ICAL with IS

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-78164-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 180-246110/2-A

Matrix: Water | Lab File ID: S0530018.D

Analysis Method: 8082A | Date Collected:

Extraction Method: 3510C | Date Extracted: 05/29/2018 14:00

Sample wt/vol: 1000(mL) | Date Analyzed: 05/30/2018 10:47

Con. Extract Vol.: 1.0(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RTX-CLP1 ID: 0.53(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 246135 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	Arochlor 1016	0.755		0.010	0.0048
11096-82-5	Arochlor 1260	0.785		0.010	0.0039

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl (Surr)	84		46-126
877-09-8	Tetrachloro-m-xylene	85		36-130

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180530-21981.b\S0530018.D
Lims ID: LCS 180-246110/2-A
Client ID:
Sample Type: LCS
Inject. Date: 30-May-2018 10:47:21 ALS Bottle#: 18 Worklist Smp#: 18
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0021981-018
Operator ID: Instrument ID: CHGC10

Method: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180530-21981.b\IS PCB_CHGC10DUAL.m
Limit Group: GCS 8082A ICAL with IS
Last Update: 31-May-2018 06:28:26 Calib Date: 01-Mar-2018 20:27:10
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\S0301050.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK028

First Level Reviewer: oravecj Date: 30-May-2018 11:30:51

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 1-Bromo-2-nitrobenzene							
1	2.589	2.585	0.004	210910573H	0.1000	0.1000	
2	2.835	2.831	0.005	136658734H	0.1000	0.1000	
$ 2 Tetrachloro-m-xylene							
1	3.175	3.173	0.002	39650165H	0.0200	0.0170	
2	3.675	3.672	0.003	20443299H	0.0200	0.0167	
						RPD = 1.63	
6 PCB-1016							
1	3.475	3.474	0.001	24843490H	1000.0	0.7176	
1	3.799	3.796	0.003	36735656H	1000.0	0.7244	
1	4.278	4.276	0.002	59494704H	1000.0	0.7966	
1	4.424	4.420	0.004	34111586H	1000.0	0.7858	
1	4.905	4.901	0.004	27626853H	1000.0	0.7506	
		Average of Peak Amounts =				0.7550	
2	5.031	5.029	0.002	8216012H	1000.0	0.6701	
2	5.331	5.327	0.004	27548183H	1000.0	0.7424	
2	5.530	5.526	0.004	15106587H	1000.0	0.7141	
2	6.275	6.270	0.005	12277321H	1000.0	0.7174	
2	6.485	6.481	0.004	10123434H	1000.0	0.7088	
		Average of Peak Amounts =				0.7105	
						RPD = 6.07	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
9 PCB-1260							
1	6.700	6.696	0.004	42384078H	1000.0	0.7707	
1	7.190	7.186	0.004	63668132H	1000.0	0.7913	
1	7.720	7.715	0.005	51065491H	1000.0	0.8637	
1	8.995	8.992	0.003	81203001H	1000.0	0.7340	
1	9.471	9.469	0.002	47542148H	1000.0	0.7672	
		Average of Peak Amounts =				0.7854	
2	9.065	9.060	0.005	26727411H	1000.0	0.7676	
2	9.832	9.828	0.004	16996907H	1000.0	0.6850	
2	10.300	10.298	0.002	19199482H	1000.0	0.7073	
2	10.684	10.679	0.005	47291196H	1000.0	0.7449	
2	11.217	11.212	0.005	25778953H	1000.0	0.7257	
		Average of Peak Amounts =				0.7261	
						RPD = 7.85	
* 46 PCB-205 (IS)							
1	10.534	10.528	0.005	144569837H	0.1000	0.1000	
2	12.053	12.048	0.005	78574483H	0.1000	0.1000	
$ 12 DCB Decachlorobiphenyl (Surr)							
1	11.140	11.137	0.003	21546551H	0.0200	0.0169	
2	12.765	12.762	0.003	10885005H	0.0200	0.0164	
						RPD = 2.64	

Reagents:

PCBINT_00007 Amount Added: 0.01 Units: mL Run Reagent

Report Date: 31-May-2018 06:29:14 Chrom Revision: 2.2 11-May-2018 08:54:46

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180530-21981.b\S0530018.D

Injection Date: 30-May-2018 10:47:21 Instrument ID: CHGC10

Lims ID: LCS 180-246110/2-A

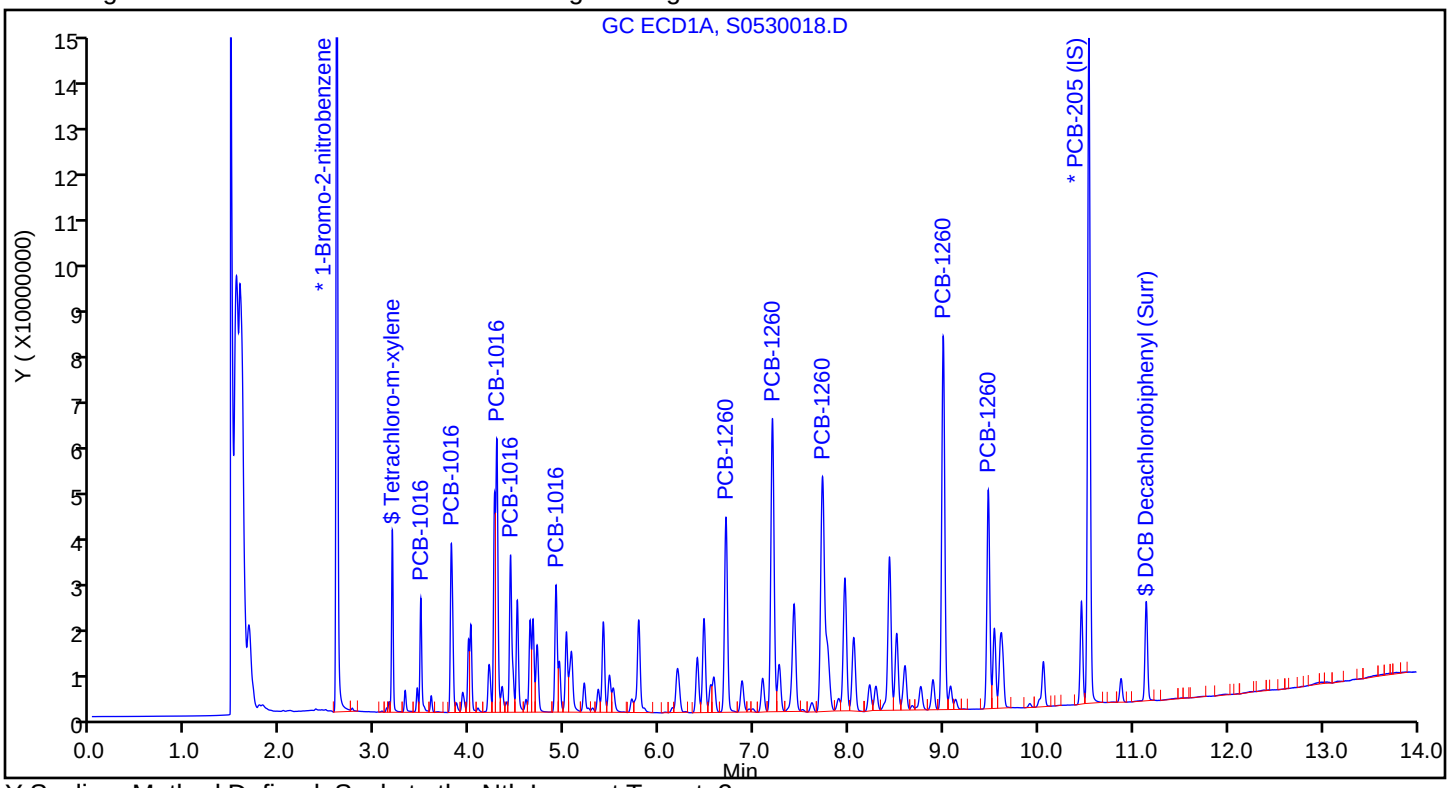
Client ID:

Operator ID: ALS Bottle#: 18 Worklist Smp#: 18

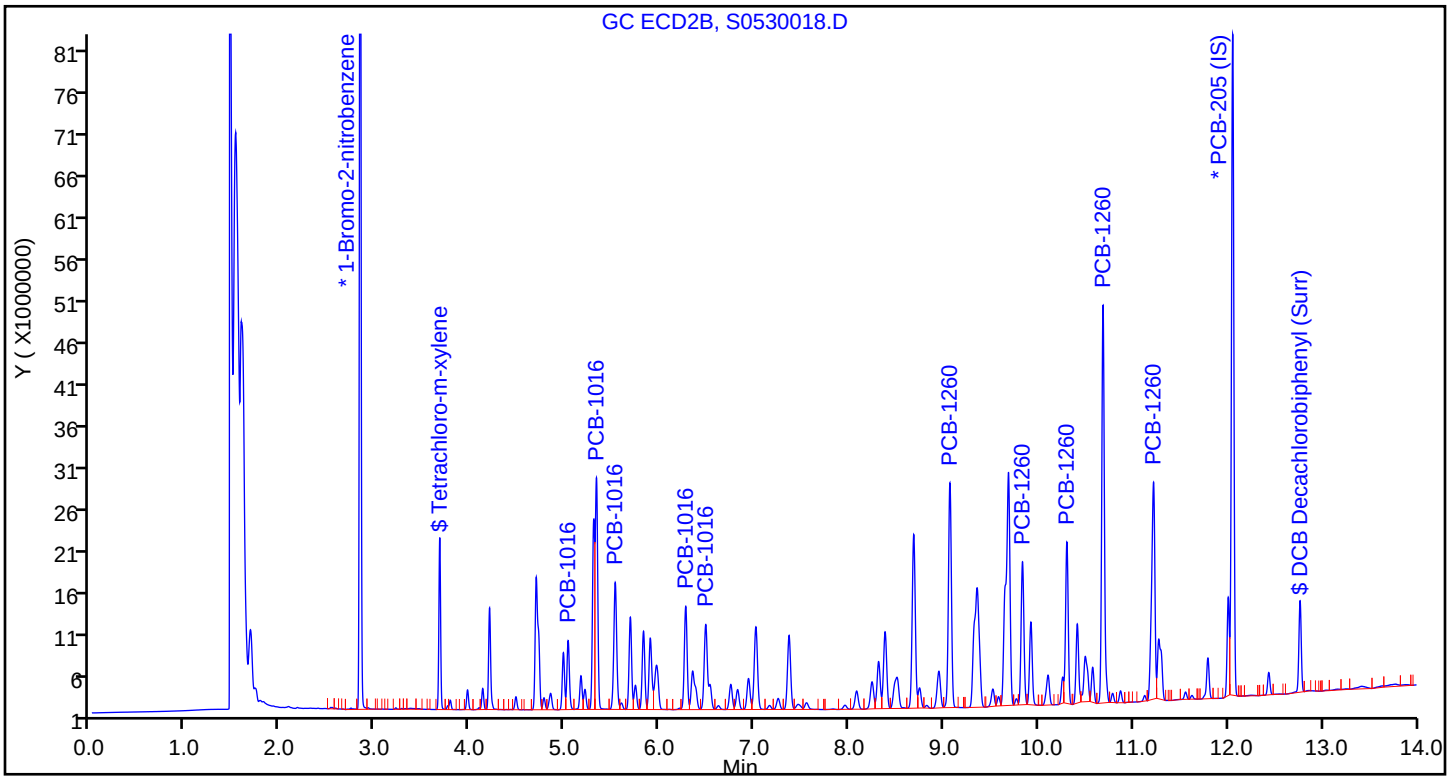
Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: IS PCB_CHGC10DUAL Limit Group: GCS 8082A ICAL with IS

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh Job No.: 180-78164-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 180-246110/2-A

Matrix: Water Lab File ID: S0530018.D

Analysis Method: 8082A Date Collected:

Extraction Method: 3510C Date Extracted: 05/29/2018 14:00

Sample wt/vol: 1000(mL) Date Analyzed: 05/30/2018 10:47

Con. Extract Vol.: 1.0(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: RTX-CLP2 ID: 0.53(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 246135 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl (Surr)	82		46-126
877-09-8	Tetrachloro-m-xylene	84		36-130

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180530-21981.b\S0530018.D
Lims ID: LCS 180-246110/2-A
Client ID:
Sample Type: LCS
Inject. Date: 30-May-2018 10:47:21 ALS Bottle#: 18 Worklist Smp#: 18
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0021981-018
Operator ID: Instrument ID: CHGC10

Method: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180530-21981.b\IS PCB_CHGC10DUAL.m
Limit Group: GCS 8082A ICAL with IS
Last Update: 31-May-2018 06:28:26 Calib Date: 01-Mar-2018 20:27:10
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\S0301050.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK028

First Level Reviewer: oravecj Date: 30-May-2018 11:30:51

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 1-Bromo-2-nitrobenzene							
1	2.589	2.585	0.004	210910573H	0.1000	0.1000	
2	2.835	2.831	0.005	136658734H	0.1000	0.1000	
$ 2 Tetrachloro-m-xylene							
1	3.175	3.173	0.002	39650165H	0.0200	0.0170	
2	3.675	3.672	0.003	20443299H	0.0200	0.0167	
						RPD = 1.63	
6 PCB-1016							
1	3.475	3.474	0.001	24843490H	1000.0	0.7176	
1	3.799	3.796	0.003	36735656H	1000.0	0.7244	
1	4.278	4.276	0.002	59494704H	1000.0	0.7966	
1	4.424	4.420	0.004	34111586H	1000.0	0.7858	
1	4.905	4.901	0.004	27626853H	1000.0	0.7506	
		Average of Peak Amounts =				0.7550	
2	5.031	5.029	0.002	8216012H	1000.0	0.6701	
2	5.331	5.327	0.004	27548183H	1000.0	0.7424	
2	5.530	5.526	0.004	15106587H	1000.0	0.7141	
2	6.275	6.270	0.005	12277321H	1000.0	0.7174	
2	6.485	6.481	0.004	10123434H	1000.0	0.7088	
		Average of Peak Amounts =				0.7105	
						RPD = 6.07	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
9 PCB-1260							
1	6.700	6.696	0.004	42384078H	1000.0	0.7707	
1	7.190	7.186	0.004	63668132H	1000.0	0.7913	
1	7.720	7.715	0.005	51065491H	1000.0	0.8637	
1	8.995	8.992	0.003	81203001H	1000.0	0.7340	
1	9.471	9.469	0.002	47542148H	1000.0	0.7672	
		Average of Peak Amounts =				0.7854	
2	9.065	9.060	0.005	26727411H	1000.0	0.7676	
2	9.832	9.828	0.004	16996907H	1000.0	0.6850	
2	10.300	10.298	0.002	19199482H	1000.0	0.7073	
2	10.684	10.679	0.005	47291196H	1000.0	0.7449	
2	11.217	11.212	0.005	25778953H	1000.0	0.7257	
		Average of Peak Amounts =				0.7261	
						RPD = 7.85	
* 46 PCB-205 (IS)							
1	10.534	10.528	0.005	144569837H	0.1000	0.1000	
2	12.053	12.048	0.005	78574483H	0.1000	0.1000	
$ 12 DCB Decachlorobiphenyl (Surr)							
1	11.140	11.137	0.003	21546551H	0.0200	0.0169	
2	12.765	12.762	0.003	10885005H	0.0200	0.0164	
						RPD = 2.64	

Reagents:

PCBINT_00007 Amount Added: 0.01 Units: mL Run Reagent

Report Date: 31-May-2018 06:29:15 Chrom Revision: 2.2 11-May-2018 08:54:46

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180530-21981.b\S0530018.D

Injection Date: 30-May-2018 10:47:21 Instrument ID: CHGC10

Lims ID: LCS 180-246110/2-A

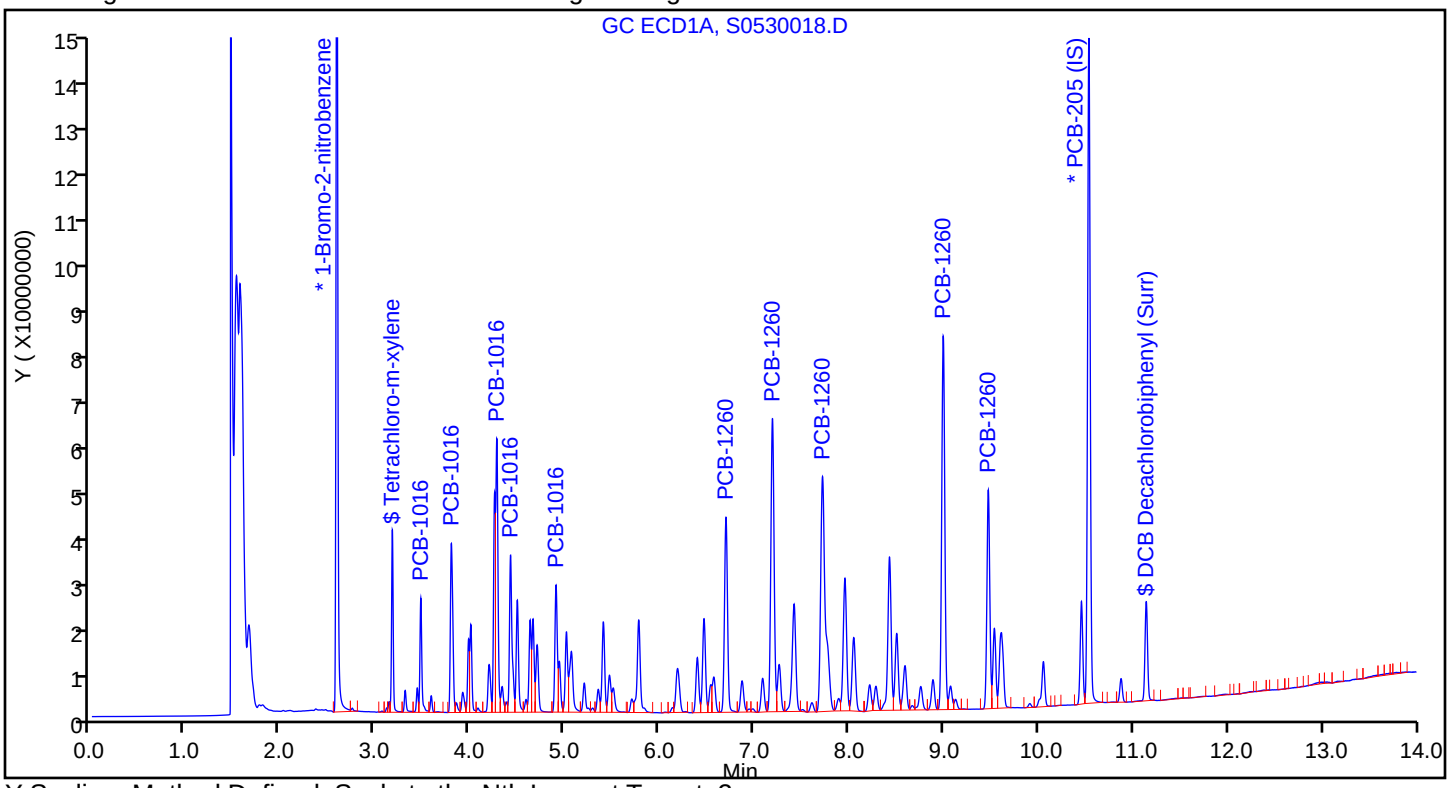
Client ID:

Operator ID: ALS Bottle#: 18 Worklist Smp#: 18

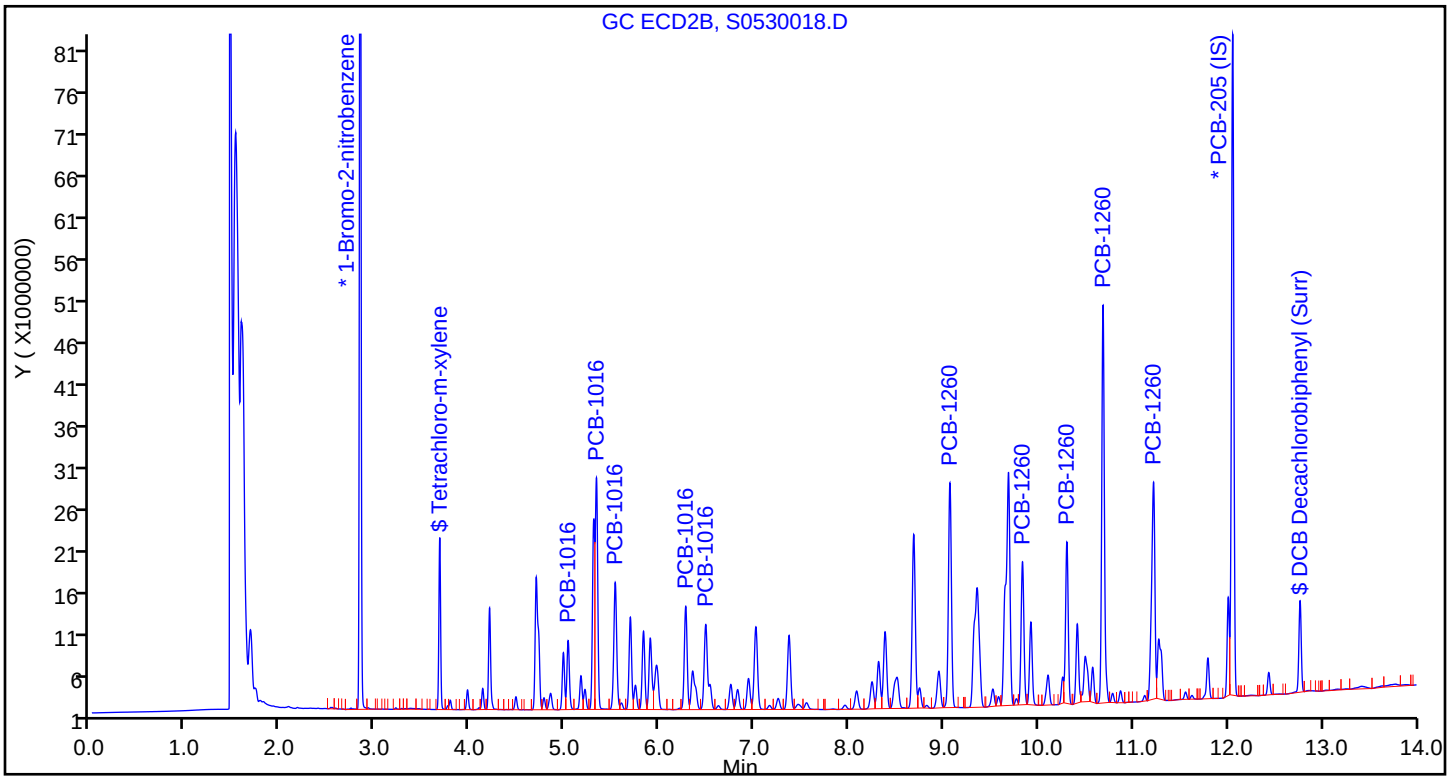
Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: IS PCB_CHGC10DUAL Limit Group: GCS 8082A ICAL with IS

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-78164-1

SDG No.:

Client Sample ID: CE-MW-37R2_052218 MS | Lab Sample ID: 180-78164-2 MS

Matrix: Water | Lab File ID: S0530021.D

Analysis Method: 8082A | Date Collected: 05/22/2018 11:16

Extraction Method: 3510C | Date Extracted: 05/29/2018 14:00

Sample wt/vol: 960(mL) | Date Analyzed: 05/30/2018 11:43

Con. Extract Vol.: 1.0(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RTX-CLP1 ID: 0.53(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 246135 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	Arochlor 1016	0.831		0.010	0.0050
11104-28-2	Arochlor 1221	0.0060	U	0.010	0.0060
11141-16-5	Arochlor 1232	0.0054	U	0.010	0.0054
53469-21-9	Arochlor 1242	0.0095	U	0.010	0.0095
12672-29-6	Arochlor 1248	0.0031	U	0.010	0.0031
11097-69-1	Arochlor 1254	0.0099	U	0.010	0.0099
11096-82-5	Arochlor 1260	1.02		0.010	0.0041

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl (Surr)	90		46-126
877-09-8	Tetrachloro-m-xylene	74		36-130

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180530-21981.b\S0530021.D
Lims ID: 180-78164-A-2-B MS
Client ID: CE-MW-37R2_052218
Sample Type: MS
Inject. Date: 30-May-2018 11:43:38 ALS Bottle#: 21 Worklist Smp#: 21
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0021981-021
Operator ID: Instrument ID: CHGC10

Method: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180530-21981.b\IS PCB_CHGC10DUAL.m
Limit Group: GCS 8082A ICAL with IS
Last Update: 31-May-2018 06:28:26 Calib Date: 01-Mar-2018 20:27:10
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\S0301050.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK028

First Level Reviewer: oravecj Date: 31-May-2018 06:26:12

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 1-Bromo-2-nitrobenzene							
1	2.588	2.585	0.003	227398972H	0.1000	0.1000	
2	2.835	2.831	0.004	144080823H	0.1000	0.1000	
$ 2 Tetrachloro-m-xylene							
1	3.174	3.173	0.001	36995284H	0.0200	0.0147	
2	3.674	3.672	0.002	18113404H	0.0200	0.0140	
						RPD = 4.56	
3 PCB-1221							U
1		3.307				ND	
1		3.433					
1		3.471					
2		3.207					
2		3.964					
2		4.196					
4 PCB-1232							U
1		3.308				ND	
1		3.795					
1		4.001					
1		4.421					
1		4.900					
2		3.966					
2		4.691					
2		5.028					
2		5.525					
2		5.684					

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
6 PCB-1016							
1	3.475	3.474	0.001	28129108H	1000.0	0.7536	
1	3.798	3.796	0.002	41333806H	1000.0	0.7560	
1	4.277	4.276	0.001	68513092H	1000.0	0.8509	
1	4.422	4.420	0.002	38267073H	1000.0	0.8176	
1	4.903	4.901	0.002	32102458H	1000.0	0.8089	
		Average of Peak Amounts =				0.7974	
2	5.031	5.029	0.002	9300284H	1000.0	0.7195	
2	5.330	5.327	0.003	32202530H	1000.0	0.8232	
2	5.528	5.526	0.002	17692345H	1000.0	0.7932	
2	6.272	6.270	0.002	14100205H	1000.0	0.7814	
2	6.484	6.481	0.003	12308598H	1000.0	0.8173	
		Average of Peak Amounts =				0.7869	
						RPD = 1.32	
5 PCB-1242							U
1		3.475				ND	
1		4.278					
1		4.423					
1		4.903					
1		5.466					
2		4.694					
2		5.329					
2		5.528					
2		6.271					
2		7.021					
7 PCB-1248							U
1		4.254				ND	
1		4.629					
1		4.901					
1		5.465					
1		5.784					
2		5.824					
2		6.269					
2		6.482					
2		6.934					
2		7.453					
8 PCB-1254							U
1		5.397				ND	
1		5.771					
1		6.389					
1		6.860					
1		7.184					
2		7.357					
2		8.303					
2		9.058					
2		9.361					
2		9.679					

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
10 PCB-1262							U
1		6.694				ND	
1		7.184					
1		7.950					
1		8.422					
1		9.531					
2		8.678					
2		9.826					
2		10.297					
2		10.678					
2		11.205					
9 PCB-1260							
1	6.697	6.696	0.001	52983395H	1000.0	0.9137	
1	7.187	7.186	0.001	82007210H	1000.0	0.9665	
1	7.717	7.715	0.002	68911748H	1000.0	1.11	
1	8.994	8.992	0.002	108316009H	1000.0	0.9284	
1	9.469	9.469	0.000	62748561H	1000.0	0.9602	
		Average of Peak Amounts =				0.9748	
2	9.065	9.060	0.005	35459665H	1000.0	0.9462	
2	9.831	9.828	0.003	22919700H	1000.0	0.8582	
2	10.300	10.298	0.002	24550926H	1000.0	0.8403	
2	10.682	10.679	0.003	64238929H	1000.0	0.9401	
2	11.215	11.212	0.003	35886651H	1000.0	0.9386	
		Average of Peak Amounts =				0.9047	
						RPD = 7.46	
11 PCB-1268							U
1		9.533				ND	
1		9.597					
1		9.906					
1		10.870					
2		11.200					
2		11.267					
2		11.620					
2		12.432					
* 46 PCB-205 (IS)							
1	10.532	10.528	0.003	152455913H	0.1000	0.1000	
2	12.052	12.048	0.004	84570274H	0.1000	0.1000	
$ 12 DCB Decachlorobiphenyl (Surr)							
1	11.138	11.137	0.001	24317033H	0.0200	0.0180	
2	12.763	12.762	0.001	12341572H	0.0200	0.0173	
						RPD = 4.22	
13 1260 Res 2							
1		0.000				ND	
2		0.000					
14 1260 Res 3							
1		0.000				ND	
2		0.000					
15 1260 Res 1							
1		0.000				ND	
2		0.000					

QC Flag Legend

Review Flags

U - Marked Undetected

Reagents:

PCBINT_00007	Amount Added:	0.01	Units: mL	Run Reagent

Report Date: 31-May-2018 06:29:07 Chrom Revision: 2.2 11-May-2018 08:54:46

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180530-21981.b\S0530021.D

Injection Date: 30-May-2018 11:43:38 Instrument ID: CHGC10

Lims ID: 180-78164-A-2-B MS

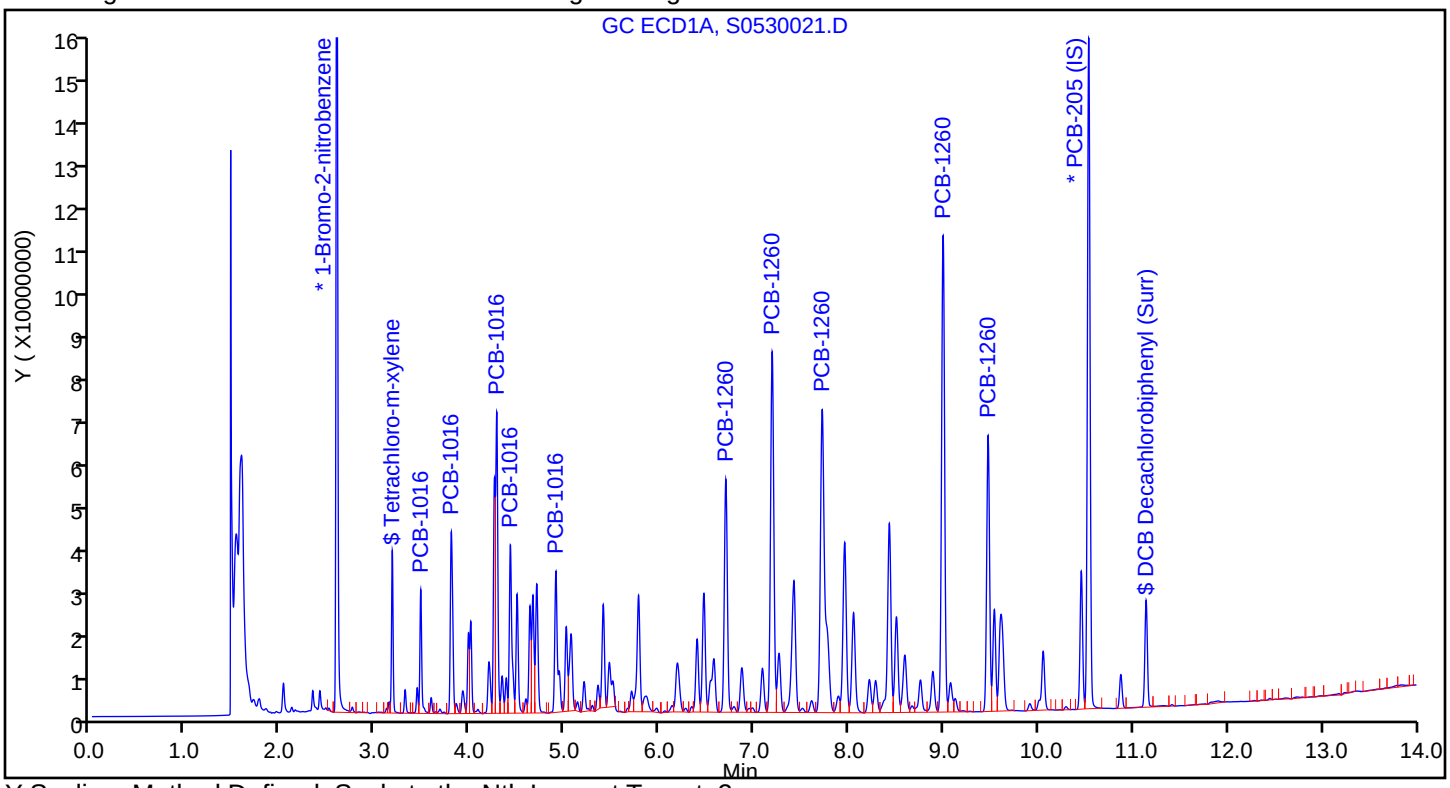
Client ID: CE-MW-37R2_052218

Operator ID: ALS Bottle#: 21 Worklist Smp#: 21

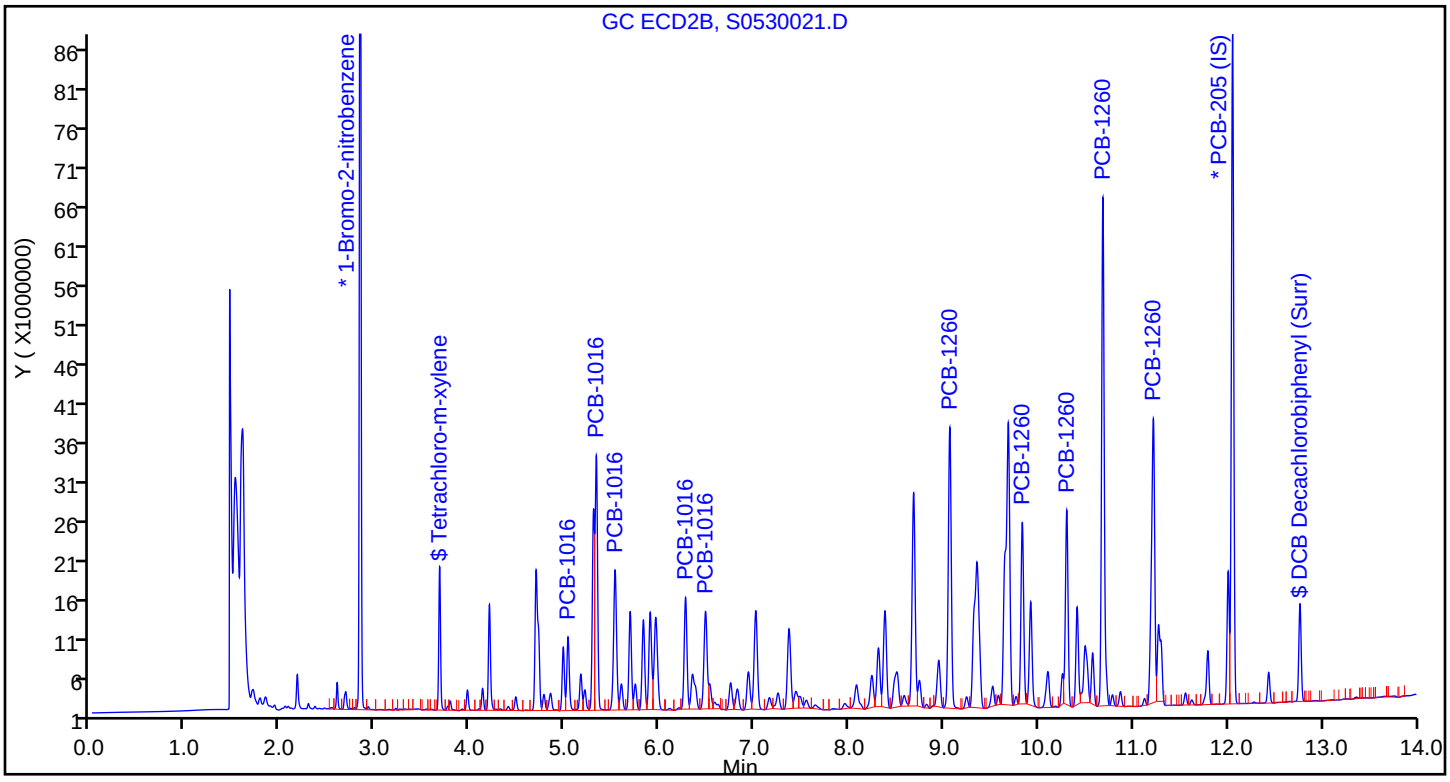
Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: IS PCB_CHGC10DUAL Limit Group: GCS 8082A ICAL with IS

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



User Disabled Compound Report

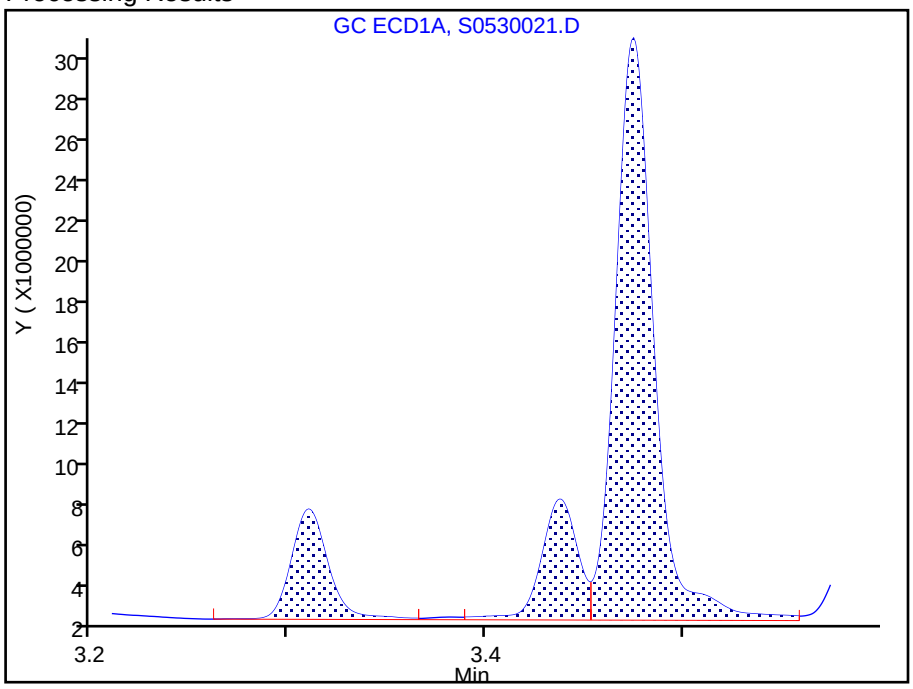
TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CHGC10\20180530-21981.b\S0530021.D		
Injection Date:	30-May-2018 11:43:38	Instrument ID:	CHGC10
Lims ID:	180-78164-A-2-B MS		
Client ID:	CE-MW-37R2_052218		
Operator ID:		ALS Bottle#:	21 Worklist Smp#: 21
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	IS PCB_CHGC10DUAL	Limit Group:	GCS 8082A ICAL with IS

3 PCB-1221, Detector: 1, GC ECD1A

Processing Results

Exp RT	RT	Response	Amount
3.31	3.31	5325976	0.222429
3.43	3.44	5832895	0.387253
3.47	3.47	28129108	0.489981
		Average =	0.245956



Reviewer: oravecj, 31-May-2018 06:26:05

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

User Disabled Compound Report

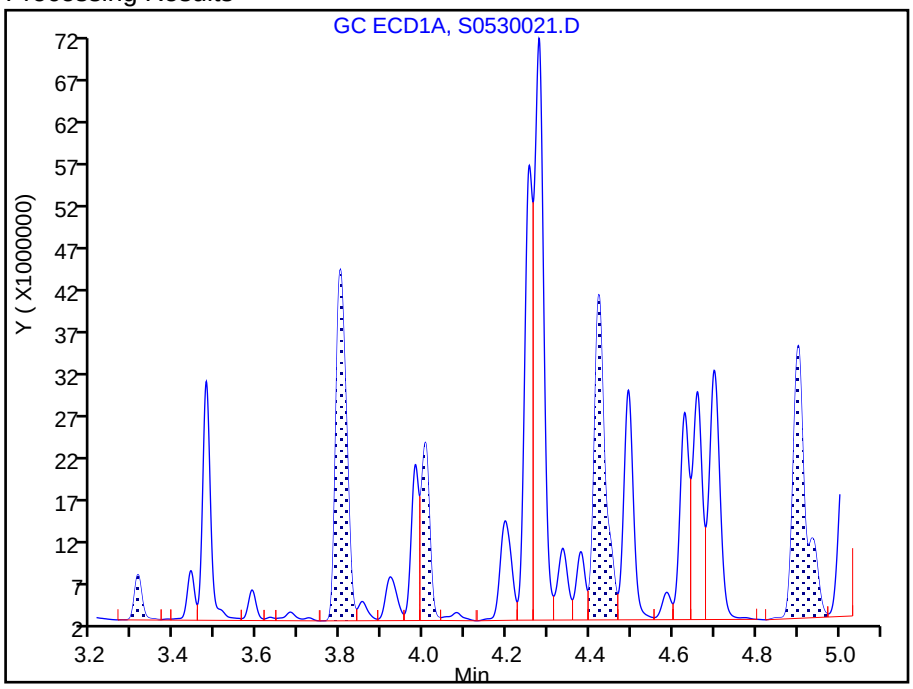
TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180530-21981.b\S0530021.D
Injection Date: 30-May-2018 11:43:38 Instrument ID: CHGC10
Lims ID: 180-78164-A-2-B MS
Client ID: CE-MW-37R2_052218
Operator ID: ALS Bottle#: 21 Worklist Smp#: 21
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: IS PCB_CHGC10DUAL Limit Group: GCS 8082A ICAL with IS

4 PCB-1232, Detector: 1, GC ECD1A

Processing Results

Exp RT	RT	Response	Amount
3.31	3.31	5325976	0.327738
3.79	3.80	41333806	1.580802
4.00	4.00	20942983	1.422407
4.42	4.42	38267073	1.711517
4.90	4.90	32102458	1.891203
	Average =		1.377085



Reviewer: oravecj, 31-May-2018 06:26:06
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

User Disabled Compound Report

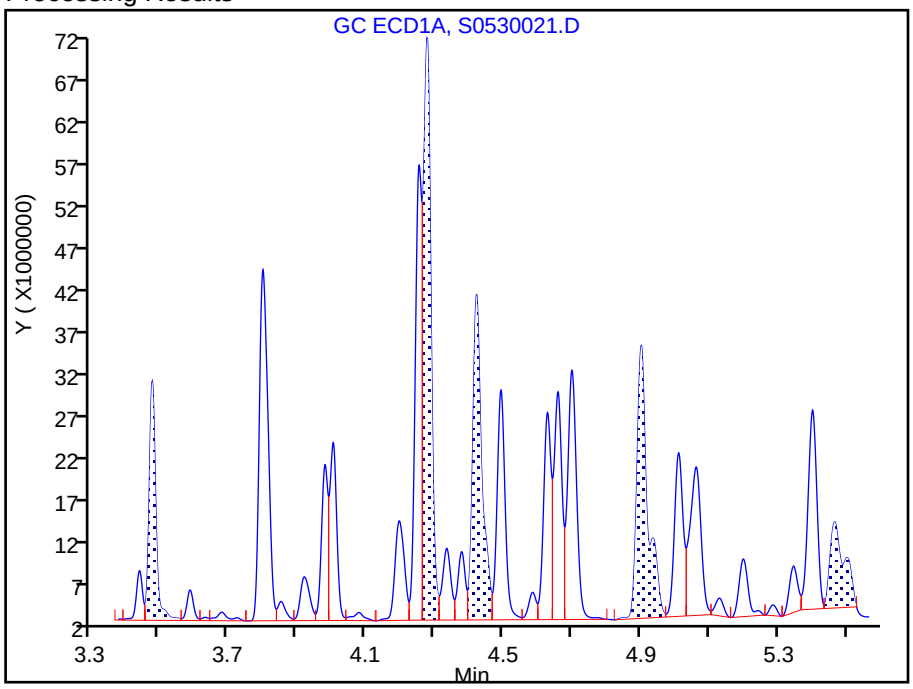
TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180530-21981.b\S0530021.D
Injection Date: 30-May-2018 11:43:38 Instrument ID: CHGC10
Lims ID: 180-78164-A-2-B MS
Client ID: CE-MW-37R2_052218
Operator ID: ALS Bottle#: 21 Worklist Smp#: 21
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: IS PCB_CHGC10DUAL Limit Group: GCS 8082A ICAL with IS

5 PCB-1242, Detector: 1, GC ECD1A

Processing Results

Exp RT	RT	Response	Amount
3.48	3.47	28129108	0.846356
4.28	4.28	68513092	1.004557
4.42	4.42	38267073	0.961006
4.90	4.90	32102458	0.930835
5.47	5.47	10125907	0.344495
		Average =	0.817450



Reviewer: oravecj, 31-May-2018 06:26:07
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

User Disabled Compound Report

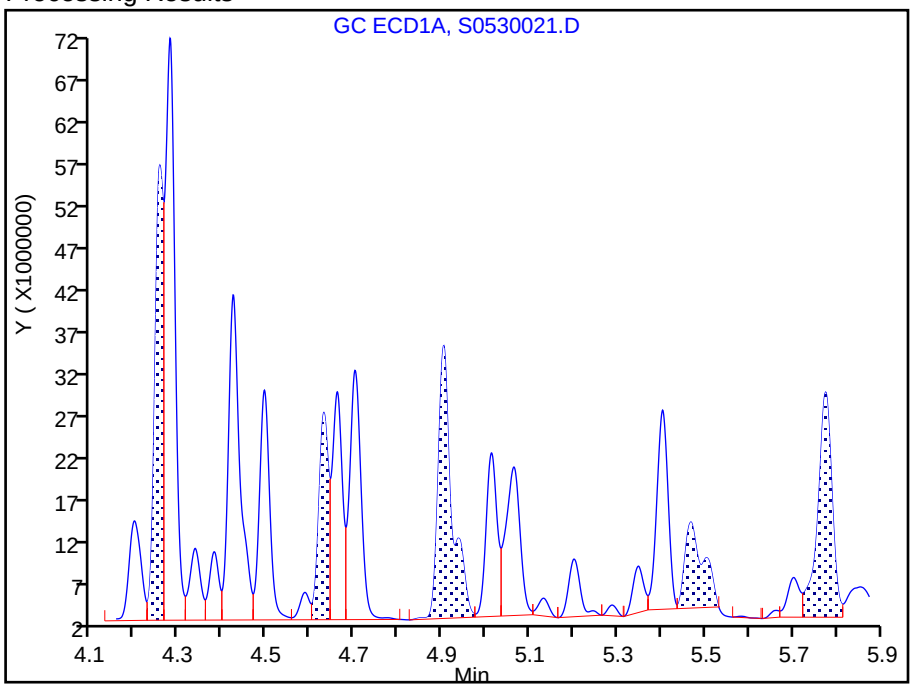
TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180530-21981.b\S0530021.D
Injection Date: 30-May-2018 11:43:38 Instrument ID: CHGC10
Lims ID: 180-78164-A-2-B MS
Client ID: CE-MW-37R2_052218
Operator ID: ALS Bottle#: 21 Worklist Smp#: 21
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: IS PCB_CHGC10DUAL Limit Group: GCS 8082A ICAL with IS

7 PCB-1248, Detector: 1, GC ECD1A

Processing Results

Exp RT	RT	Response	Amount
4.25	4.25	53548422	1.356810
4.63	4.63	24375734	0.547708
4.90	4.90	32102458	0.586365
5.47	5.47	10125907	0.193386
5.78	5.78	26488953	0.771897
		Average =	0.410584



Reviewer: oravecj, 31-May-2018 06:26:08
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

User Disabled Compound Report

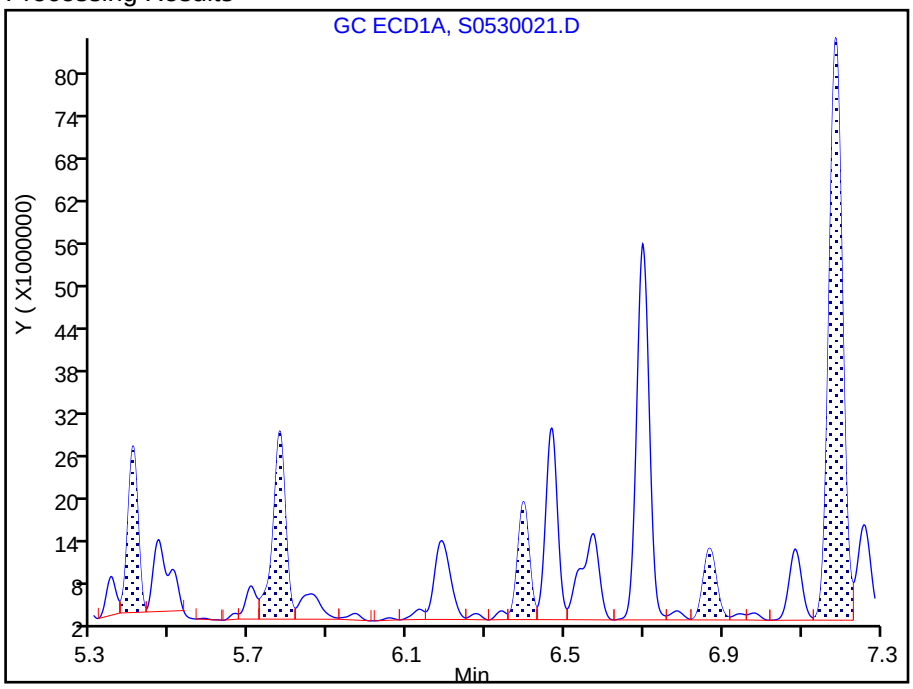
TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180530-21981.b\S0530021.D
Injection Date: 30-May-2018 11:43:38 Instrument ID: CHGC10
Lims ID: 180-78164-A-2-B MS
Client ID: CE-MW-37R2_052218
Operator ID: ALS Bottle#: 21 Worklist Smp#: 21
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: IS PCB_CHGC10DUAL Limit Group: GCS 8082A ICAL with IS

8 PCB-1254, Detector: 1, GC ECD1A

Processing Results

Exp RT	RT	Response	Amount
5.40	5.40	23444046	0.420996
5.77	5.78	26488953	0.379627
6.39	6.39	16601187	0.184601
6.86	6.87	10088183	0.172867
7.18	7.19	82007210	1.508230
		Average =	0.533264



Reviewer: oravecj, 31-May-2018 06:26:08
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh Job No.: 180-78164-1

SDG No.:

Client Sample ID: CE-MW-37R2_052218 MS Lab Sample ID: 180-78164-2 MS

Matrix: Water Lab File ID: S0530021.D

Analysis Method: 8082A Date Collected: 05/22/2018 11:16

Extraction Method: 3510C Date Extracted: 05/29/2018 14:00

Sample wt/vol: 960(mL) Date Analyzed: 05/30/2018 11:43

Con. Extract Vol.: 1.0(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: RTX-CLP2 ID: 0.53(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 246135 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl (Surr)	86		46-126
877-09-8	Tetrachloro-m-xylene	70		36-130

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180530-21981.b\S0530021.D
Lims ID: 180-78164-A-2-B MS
Client ID: CE-MW-37R2_052218
Sample Type: MS
Inject. Date: 30-May-2018 11:43:38 ALS Bottle#: 21 Worklist Smp#: 21
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0021981-021
Operator ID: Instrument ID: CHGC10

Method: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180530-21981.b\IS PCB_CHGC10DUAL.m
Limit Group: GCS 8082A ICAL with IS
Last Update: 31-May-2018 06:28:26 Calib Date: 01-Mar-2018 20:27:10
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\S0301050.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK028

First Level Reviewer: oravecj Date: 31-May-2018 06:26:12

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 1-Bromo-2-nitrobenzene							
1	2.588	2.585	0.003	227398972H	0.1000	0.1000	
2	2.835	2.831	0.004	144080823H	0.1000	0.1000	
$ 2 Tetrachloro-m-xylene							
1	3.174	3.173	0.001	36995284H	0.0200	0.0147	
2	3.674	3.672	0.002	18113404H	0.0200	0.0140	
						RPD = 4.56	
3 PCB-1221							U
1		3.307				ND	
1		3.433					
1		3.471					
2		3.207					
2		3.964					
2		4.196					
4 PCB-1232							U
1		3.308				ND	
1		3.795					
1		4.001					
1		4.421					
1		4.900					
2		3.966					
2		4.691					
2		5.028					
2		5.525					
2		5.684					

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
6 PCB-1016							
1	3.475	3.474	0.001	28129108H	1000.0	0.7536	
1	3.798	3.796	0.002	41333806H	1000.0	0.7560	
1	4.277	4.276	0.001	68513092H	1000.0	0.8509	
1	4.422	4.420	0.002	38267073H	1000.0	0.8176	
1	4.903	4.901	0.002	32102458H	1000.0	0.8089	
		Average of Peak Amounts =				0.7974	
2	5.031	5.029	0.002	9300284H	1000.0	0.7195	
2	5.330	5.327	0.003	32202530H	1000.0	0.8232	
2	5.528	5.526	0.002	17692345H	1000.0	0.7932	
2	6.272	6.270	0.002	14100205H	1000.0	0.7814	
2	6.484	6.481	0.003	12308598H	1000.0	0.8173	
		Average of Peak Amounts =				0.7869	
						RPD = 1.32	
5 PCB-1242							U
1		3.475				ND	
1		4.278					
1		4.423					
1		4.903					
1		5.466					
2		4.694					
2		5.329					
2		5.528					
2		6.271					
2		7.021					
7 PCB-1248							U
1		4.254				ND	
1		4.629					
1		4.901					
1		5.465					
1		5.784					
2		5.824					
2		6.269					
2		6.482					
2		6.934					
2		7.453					
8 PCB-1254							U
1		5.397				ND	
1		5.771					
1		6.389					
1		6.860					
1		7.184					
2		7.357					
2		8.303					
2		9.058					
2		9.361					
2		9.679					

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
10 PCB-1262							U
1		6.694				ND	
1		7.184					
1		7.950					
1		8.422					
1		9.531					
2		8.678					
2		9.826					
2		10.297					
2		10.678					
2		11.205					
9 PCB-1260							
1	6.697	6.696	0.001	52983395H	1000.0	0.9137	
1	7.187	7.186	0.001	82007210H	1000.0	0.9665	
1	7.717	7.715	0.002	68911748H	1000.0	1.11	
1	8.994	8.992	0.002	108316009H	1000.0	0.9284	
1	9.469	9.469	0.000	62748561H	1000.0	0.9602	
		Average of Peak Amounts =				0.9748	
2	9.065	9.060	0.005	35459665H	1000.0	0.9462	
2	9.831	9.828	0.003	22919700H	1000.0	0.8582	
2	10.300	10.298	0.002	24550926H	1000.0	0.8403	
2	10.682	10.679	0.003	64238929H	1000.0	0.9401	
2	11.215	11.212	0.003	35886651H	1000.0	0.9386	
		Average of Peak Amounts =				0.9047	
						RPD = 7.46	
11 PCB-1268							U
1		9.533				ND	
1		9.597					
1		9.906					
1		10.870					
2		11.200					
2		11.267					
2		11.620					
2		12.432					
* 46 PCB-205 (IS)							
1	10.532	10.528	0.003	152455913H	0.1000	0.1000	
2	12.052	12.048	0.004	84570274H	0.1000	0.1000	
$ 12 DCB Decachlorobiphenyl (Surr)							
1	11.138	11.137	0.001	24317033H	0.0200	0.0180	
2	12.763	12.762	0.001	12341572H	0.0200	0.0173	
						RPD = 4.22	
13 1260 Res 2							
1		0.000				ND	
2		0.000					
14 1260 Res 3							
1		0.000				ND	
2		0.000					
15 1260 Res 1							
1		0.000				ND	
2		0.000					

QC Flag Legend

Review Flags

U - Marked Undetected

Reagents:

PCBINT_00007 Amount Added: 0.01 Units: mL Run Reagent

Report Date: 31-May-2018 06:29:08 Chrom Revision: 2.2 11-May-2018 08:54:46

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180530-21981.b\S0530021.D

Injection Date: 30-May-2018 11:43:38 Instrument ID: CHGC10

Lims ID: 180-78164-A-2-B MS

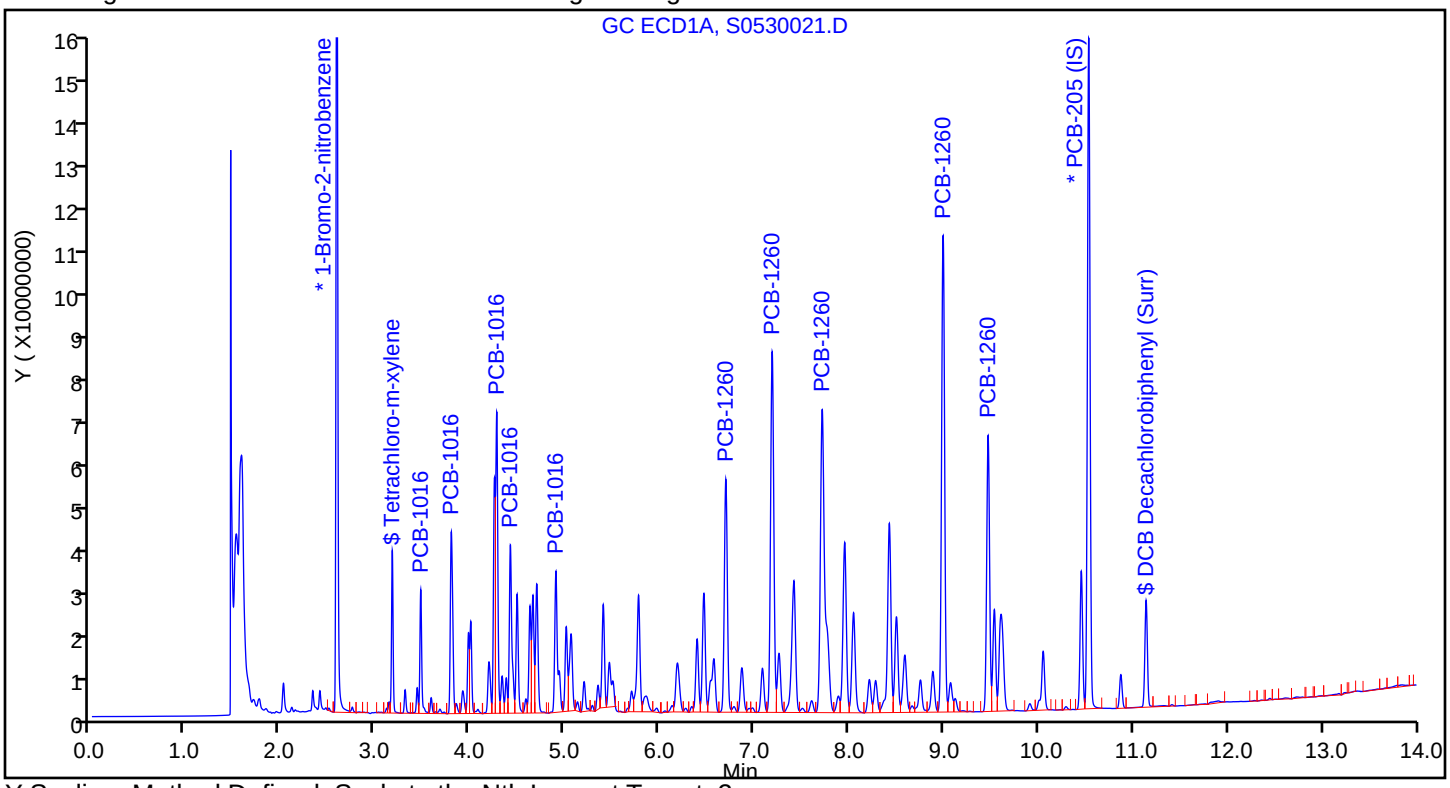
Client ID: CE-MW-37R2_052218

Operator ID: ALS Bottle#: 21 Worklist Smp#: 21

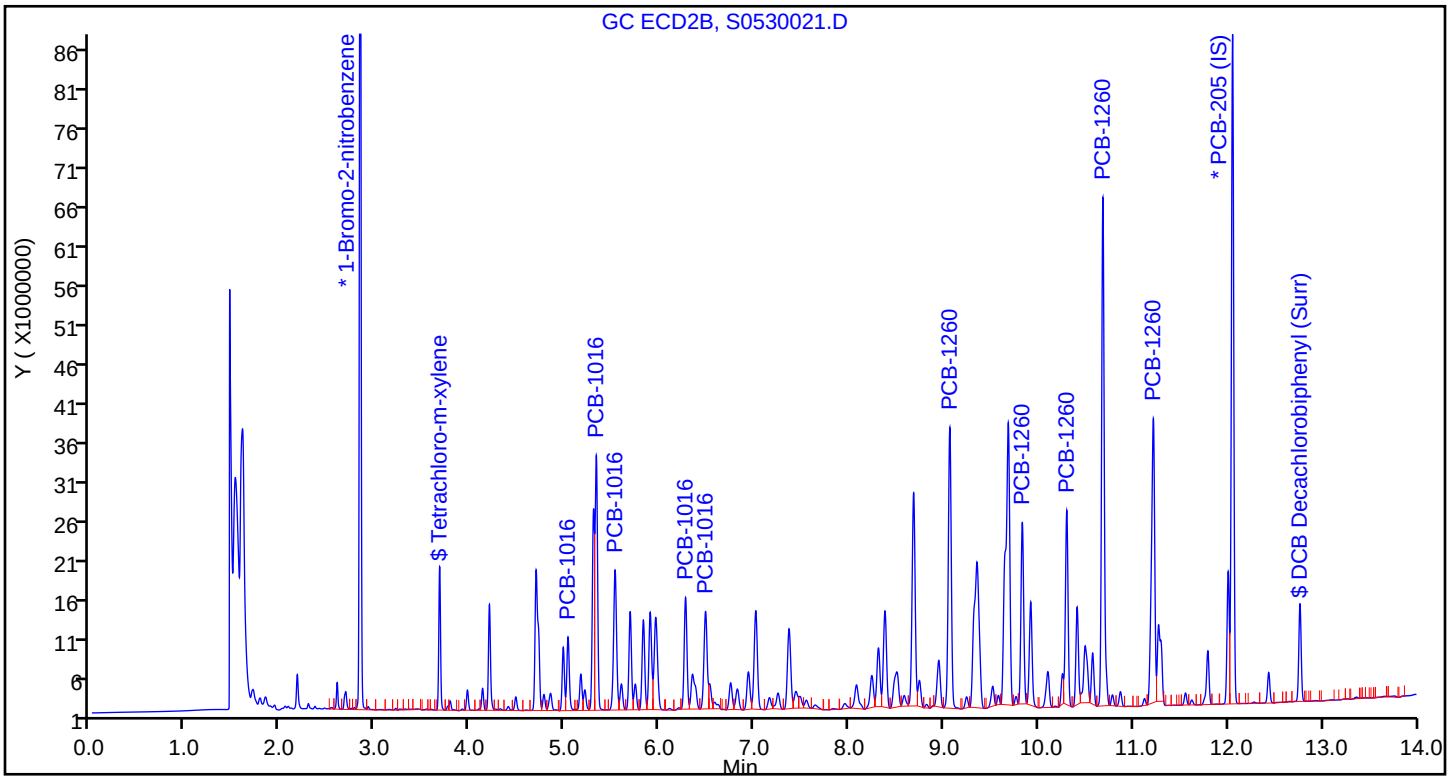
Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: IS PCB_CHGC10DUAL Limit Group: GCS 8082A ICAL with IS

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



User Disabled Compound Report

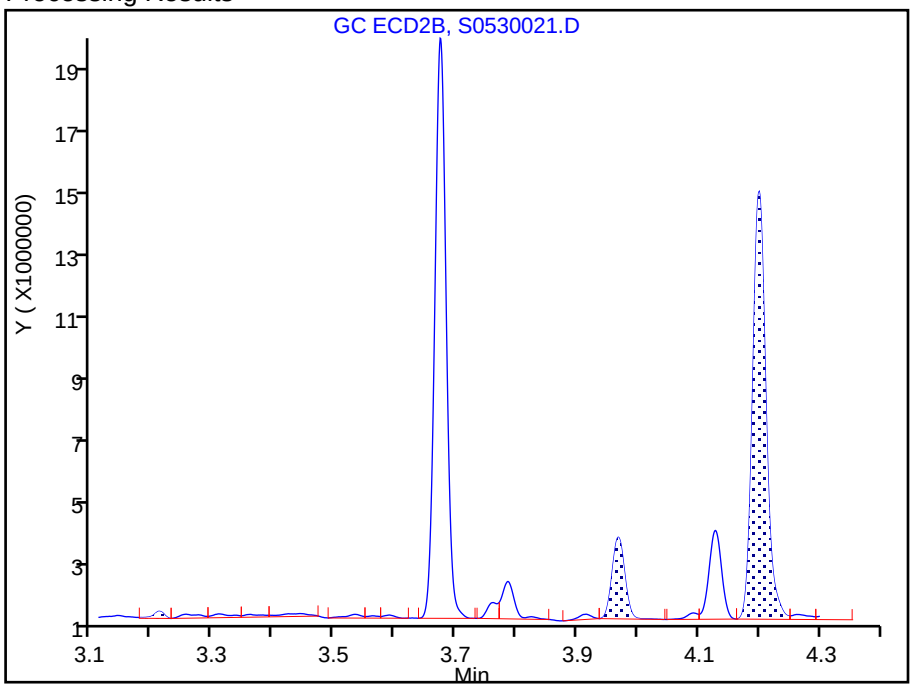
TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180530-21981.b\S0530021.D
Injection Date: 30-May-2018 11:43:38 Instrument ID: CHGC10
Lims ID: 180-78164-A-2-B MS
Client ID: CE-MW-37R2_052218
Operator ID: ALS Bottle#: 21 Worklist Smp#: 21
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: IS PCB_CHGC10DUAL Limit Group: GCS 8082A ICAL with IS

3 PCB-1221, Detector: 2, GC ECD2B

Processing Results

Exp RT	RT	Response	Amount
3.21	3.21	220578	0.011854
3.96	3.97	2547840	0.206733
4.20	4.20	13349979	0.519281
		Average =	0.245956



Reviewer: oravecj, 31-May-2018 06:26:05
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

User Disabled Compound Report

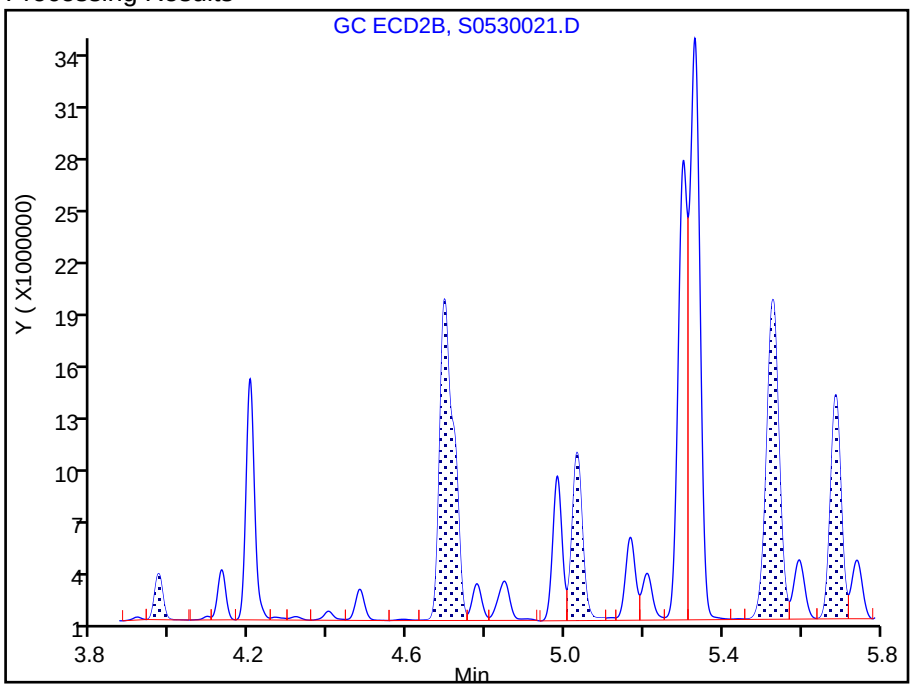
TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180530-21981.b\S0530021.D
Injection Date: 30-May-2018 11:43:38 Instrument ID: CHGC10
Lims ID: 180-78164-A-2-B MS
Client ID: CE-MW-37R2_052218
Operator ID: ALS Bottle#: 21 Worklist Smp#: 21
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: IS PCB_CHGC10DUAL Limit Group: GCS 8082A ICAL with IS

4 PCB-1232, Detector: 2, GC ECD2B

Processing Results

Exp RT	RT	Response	Amount
3.97	3.97	2547840	0.318633
4.69	4.69	17780728	1.565842
5.03	5.03	9300284	1.497394
5.52	5.53	17692345	1.771268
5.68	5.69	12400460	1.732288
		Average =	1.377085



Reviewer: oravecj, 31-May-2018 06:26:06
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

User Disabled Compound Report

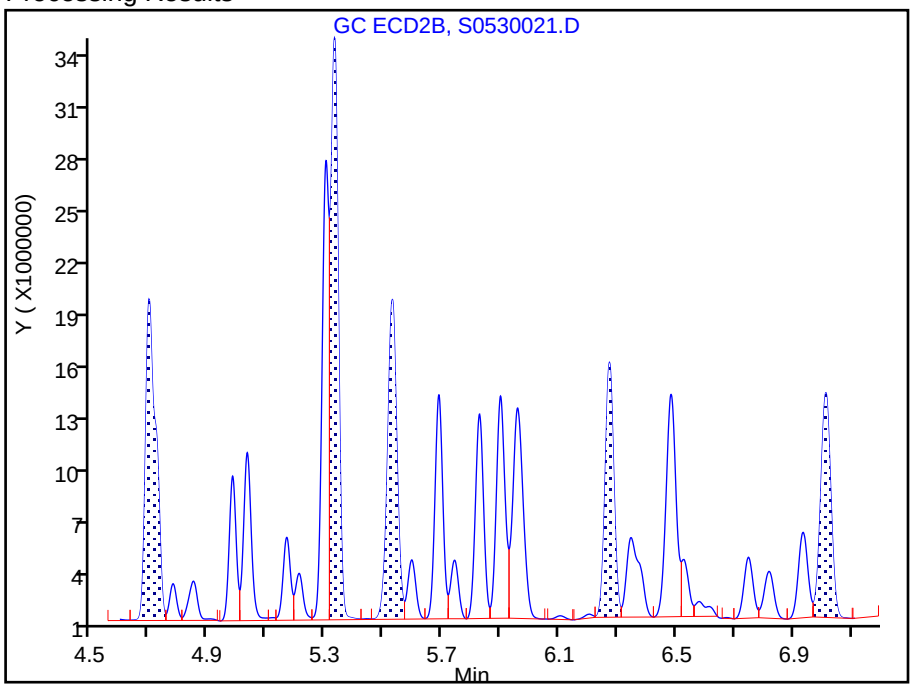
TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180530-21981.b\S0530021.D
Injection Date: 30-May-2018 11:43:38 Instrument ID: CHGC10
Lims ID: 180-78164-A-2-B MS
Client ID: CE-MW-37R2_052218
Operator ID: ALS Bottle#: 21 Worklist Smp#: 21
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: IS PCB_CHGC10DUAL Limit Group: GCS 8082A ICAL with IS

5 PCB-1242, Detector: 2, GC ECD2B

Processing Results

Exp RT	RT	Response	Amount
4.69	4.69	17780728	0.858428
5.33	5.33	32202530	0.989125
5.53	5.53	17692345	0.944703
6.27	6.27	14100205	0.909566
7.02	7.01	12437156	0.788666
		Average =	0.817450



Reviewer: oravecj, 31-May-2018 06:26:07
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

User Disabled Compound Report

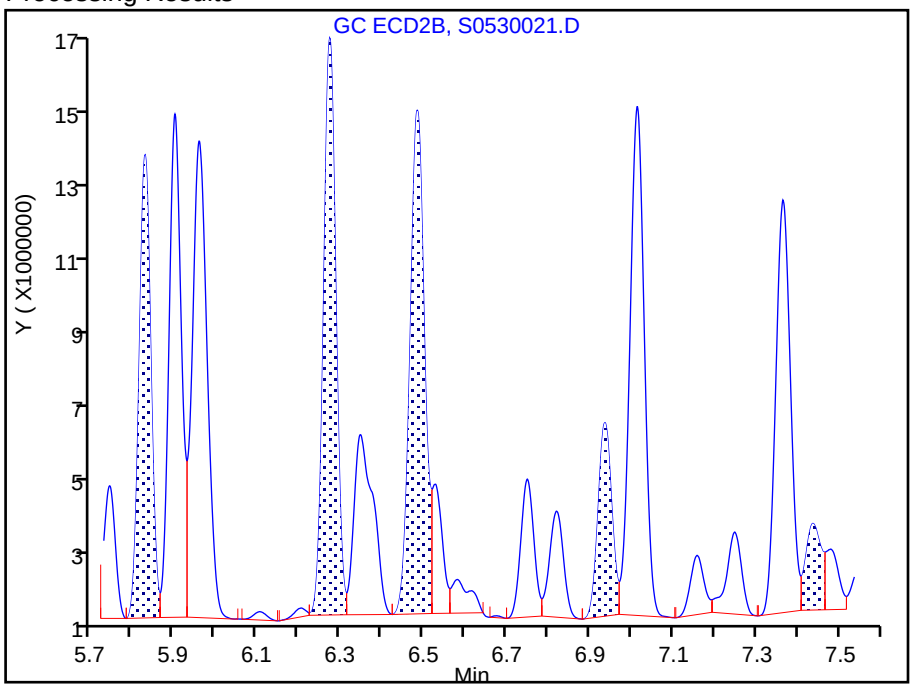
TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CHGC10\20180530-21981.b\S0530021.D				
Injection Date:	30-May-2018 11:43:38	Instrument ID:	CHGC10		
Lims ID:	180-78164-A-2-B MS				
Client ID:	CE-MW-37R2_052218				
Operator ID:		ALS Bottle#:	21	Worklist Smp#:	21
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	IS PCB_CHGC10DUAL	Limit Group:	GCS 8082A ICAL with IS		

7 PCB-1248, Detector: 2, GC ECD2B

Processing Results

Exp RT	RT	Response	Amount
5.82	5.83	11319272	0.563646
6.27	6.27	14100205	0.577984
6.48	6.48	12308598	0.614768
6.93	6.94	4729251	0.187080
7.45	7.44	2115673	0.109443
		Average =	0.410584



Reviewer: oravecj, 31-May-2018 06:26:08

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

User Disabled Compound Report

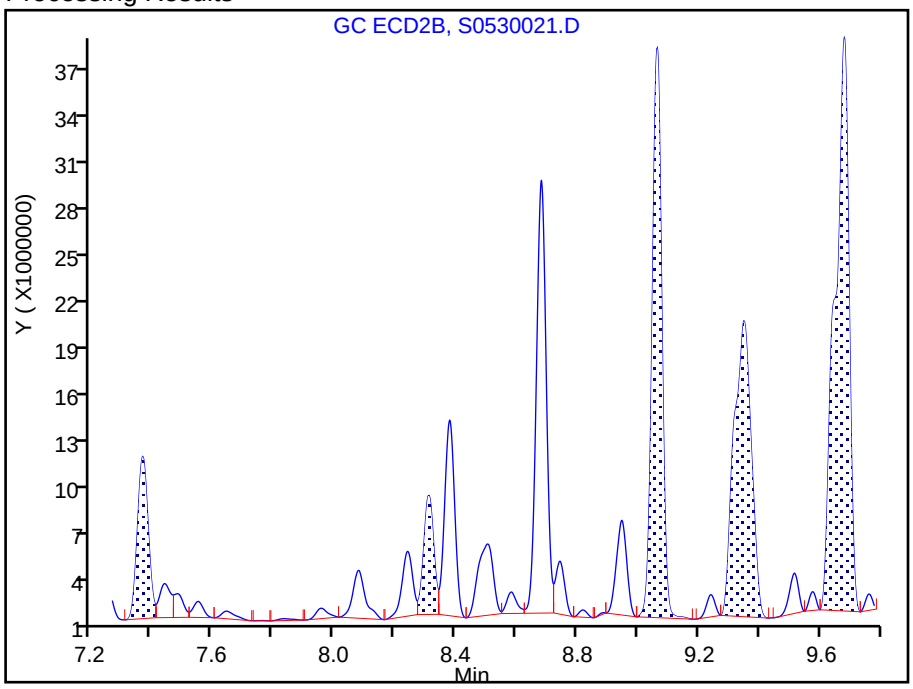
TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180530-21981.b\S0530021.D
Injection Date: 30-May-2018 11:43:38 Instrument ID: CHGC10
Lims ID: 180-78164-A-2-B MS
Client ID: CE-MW-37R2_052218
Operator ID: ALS Bottle#: 21 Worklist Smp#: 21
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: IS PCB_CHGC10DUAL Limit Group: GCS 8082A ICAL with IS

8 PCB-1254, Detector: 2, GC ECD2B

Processing Results

Exp RT	RT	Response	Amount
7.36	7.37	10089273	0.335170
8.30	8.31	7407702	0.228414
9.06	9.06	35459665	1.833079
9.36	9.35	18416072	0.775342
9.68	9.68	35664813	0.978379
		Average =	0.533264



Reviewer: oravecj, 31-May-2018 06:26:08
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-78164-1

SDG No.:

Client Sample ID: CE-MW-37R2_052218 MSD | Lab Sample ID: 180-78164-2 MSD

Matrix: Water | Lab File ID: S0530022.D

Analysis Method: 8082A | Date Collected: 05/22/2018 11:16

Extraction Method: 3510C | Date Extracted: 05/29/2018 14:00

Sample wt/vol: 980(mL) | Date Analyzed: 05/30/2018 12:02

Con. Extract Vol.: 1.0(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RTX-CLP1 ID: 0.53(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 246135 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	Arochlor 1016	0.747		0.010	0.0049
11104-28-2	Arochlor 1221	0.0058	U	0.010	0.0058
11141-16-5	Arochlor 1232	0.0053	U	0.010	0.0053
53469-21-9	Arochlor 1242	0.0093	U	0.010	0.0093
12672-29-6	Arochlor 1248	0.0031	U	0.010	0.0031
11097-69-1	Arochlor 1254	0.0097	U	0.010	0.0097
11096-82-5	Arochlor 1260	0.880		0.010	0.0040

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl (Surr)	85		46-126
877-09-8	Tetrachloro-m-xylene	65		36-130

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180530-21981.b\S0530022.D
Lims ID: 180-78164-A-2-C MSD
Client ID: CE-MW-37R2_052218
Sample Type: MSD
Inject. Date: 30-May-2018 12:02:22 ALS Bottle#: 22 Worklist Smp#: 22
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0021981-022
Operator ID: Instrument ID: CHGC10

Method: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180530-21981.b\IS PCB_CHGC10DUAL.m
Limit Group: GCS 8082A ICAL with IS
Last Update: 31-May-2018 06:28:26 Calib Date: 01-Mar-2018 20:27:10
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\S0301050.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK028

First Level Reviewer: oravecj Date: 31-May-2018 06:26:24

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 1-Bromo-2-nitrobenzene							
1	2.588	2.585	0.003	241241393H	0.1000	0.1000	
2	2.835	2.831	0.005	154680475H	0.1000	0.1000	
$ 2 Tetrachloro-m-xylene							
1	3.175	3.173	0.002	34478725H	0.0200	0.0129	
2	3.675	3.672	0.003	17402371H	0.0200	0.0126	
						RPD = 2.71	
3 PCB-1221							U
1		3.307				ND	
1		3.433					
1		3.471					
2		3.207					
2		3.964					
2		4.196					
4 PCB-1232							U
1		3.308				ND	
1		3.795					
1		4.001					
1		4.421					
1		4.900					
2		3.966					
2		4.691					
2		5.028					
2		5.525					
2		5.684					

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
6 PCB-1016							
1	3.475	3.474	0.001	27675559H	1000.0	0.6989	
1	3.798	3.796	0.002	39866473H	1000.0	0.6873	
1	4.278	4.276	0.002	66613773H	1000.0	0.7798	
1	4.423	4.420	0.003	37289626H	1000.0	0.7510	
1	4.904	4.901	0.003	31326618H	1000.0	0.7441	
		Average of Peak Amounts =				0.7322	
2	5.031	5.029	0.002	9153446H	1000.0	0.6596	
2	5.330	5.327	0.003	31043211H	1000.0	0.7392	
2	5.529	5.526	0.003	17192611H	1000.0	0.7180	
2	6.273	6.270	0.003	13707595H	1000.0	0.7076	
2	6.485	6.481	0.004	11750087H	1000.0	0.7268	
		Average of Peak Amounts =				0.7102	
						RPD = 3.05	
5 PCB-1242							U
1		3.475				ND	
1		4.278					
1		4.423					
1		4.903					
1		5.466					
2		4.694					
2		5.329					
2		5.528					
2		6.271					
2		7.021					
7 PCB-1248							U
1		4.254				ND	
1		4.629					
1		4.901					
1		5.465					
1		5.784					
2		5.824					
2		6.269					
2		6.482					
2		6.934					
2		7.453					
8 PCB-1254							U
1		5.397				ND	
1		5.771					
1		6.389					
1		6.860					
1		7.184					
2		7.357					
2		8.303					
2		9.058					
2		9.361					
2		9.679					

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
10 PCB-1262							U
1		6.694				ND	
1		7.184					
1		7.950					
1		8.422					
1		9.531					
2		8.678					
2		9.826					
2		10.297					
2		10.678					
2		11.205					
9 PCB-1260							
1	6.699	6.696	0.003	50926992H	1000.0	0.8229	
1	7.190	7.186	0.004	77881910H	1000.0	0.8601	
1	7.717	7.715	0.002	63553974H	1000.0	0.9551	
1	8.995	8.992	0.003	102238748H	1000.0	0.8212	
1	9.470	9.469	0.001	59611583H	1000.0	0.8548	
		Average of Peak Amounts =				0.8629	
2	9.065	9.060	0.005	32983064H	1000.0	0.8293	
2	9.831	9.828	0.003	21035699H	1000.0	0.7422	
2	10.301	10.298	0.003	22696270H	1000.0	0.7320	
2	10.683	10.679	0.004	58756185H	1000.0	0.8102	
2	11.216	11.212	0.004	32151222H	1000.0	0.7923	
		Average of Peak Amounts =				0.7812	
						RPD = 9.93	
11 PCB-1268							U
1		9.533				ND	
1		9.597					
1		9.906					
1		10.870					
2		11.200					
2		11.267					
2		11.620					
2		12.432					
* 46 PCB-205 (IS)							
1	10.533	10.528	0.005	162690460H	0.1000	0.1000	
2	12.052	12.048	0.004	89751666H	0.1000	0.1000	
$ 12 DCB Decachlorobiphenyl (Surr)							
1	11.140	11.137	0.003	24409712H	0.0200	0.0170	
2	12.764	12.762	0.002	12055636H	0.0200	0.0159	
						RPD = 6.39	
13 1260 Res 2							
1		0.000				ND	
2		0.000					
14 1260 Res 3							
1		0.000				ND	
2		0.000					
15 1260 Res 1							
1		0.000				ND	
2		0.000					

QC Flag Legend

Review Flags

U - Marked Undetected

Reagents:

PCBINT_00007 Amount Added: 0.01 Units: mL Run Reagent

Report Date: 31-May-2018 06:29:02 Chrom Revision: 2.2 11-May-2018 08:54:46

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180530-21981.b\S0530022.D

Injection Date: 30-May-2018 12:02:22 Instrument ID: CHGC10

Lims ID: 180-78164-A-2-C MSD

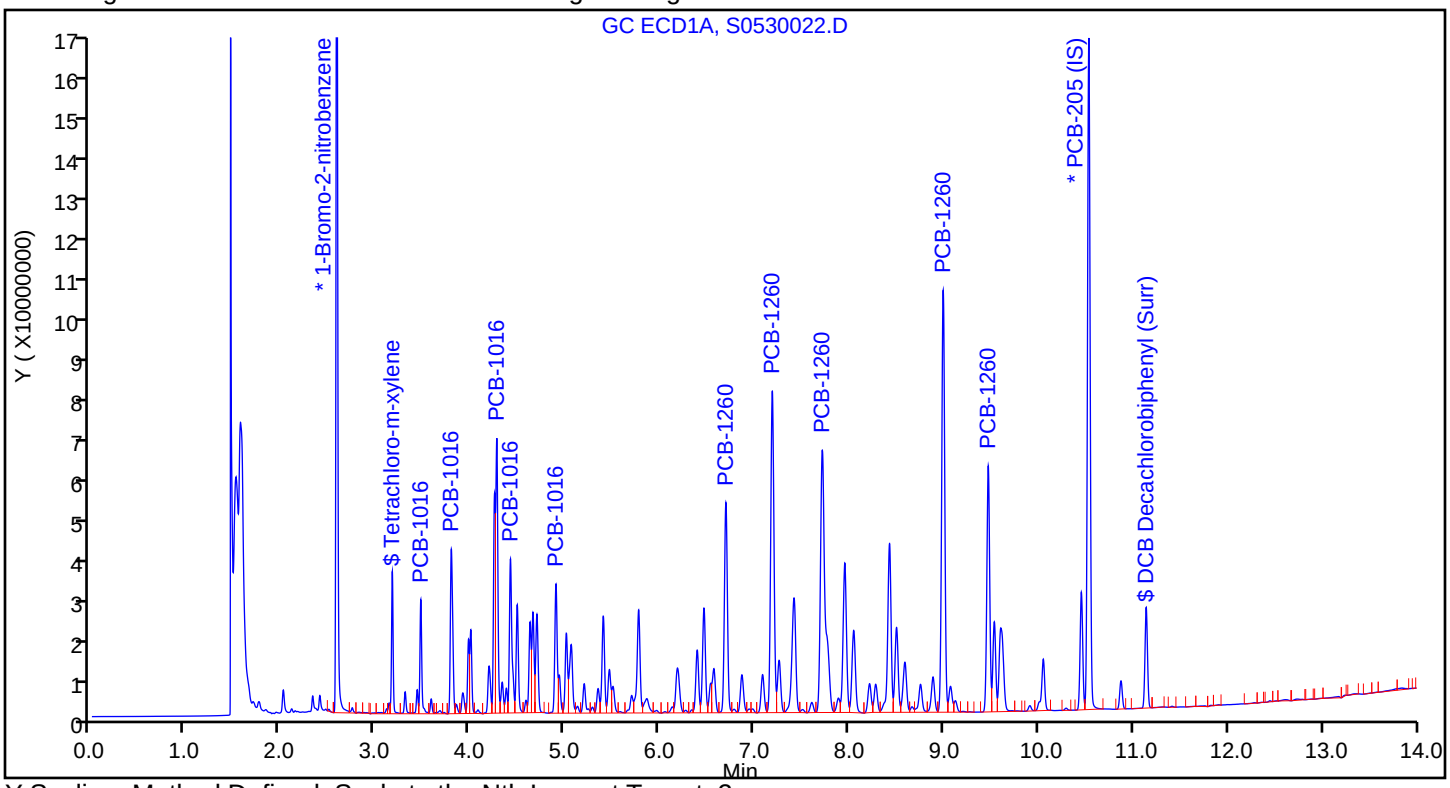
Client ID: CE-MW-37R2_052218

Operator ID: ALS Bottle#: 22 Worklist Smp#: 22

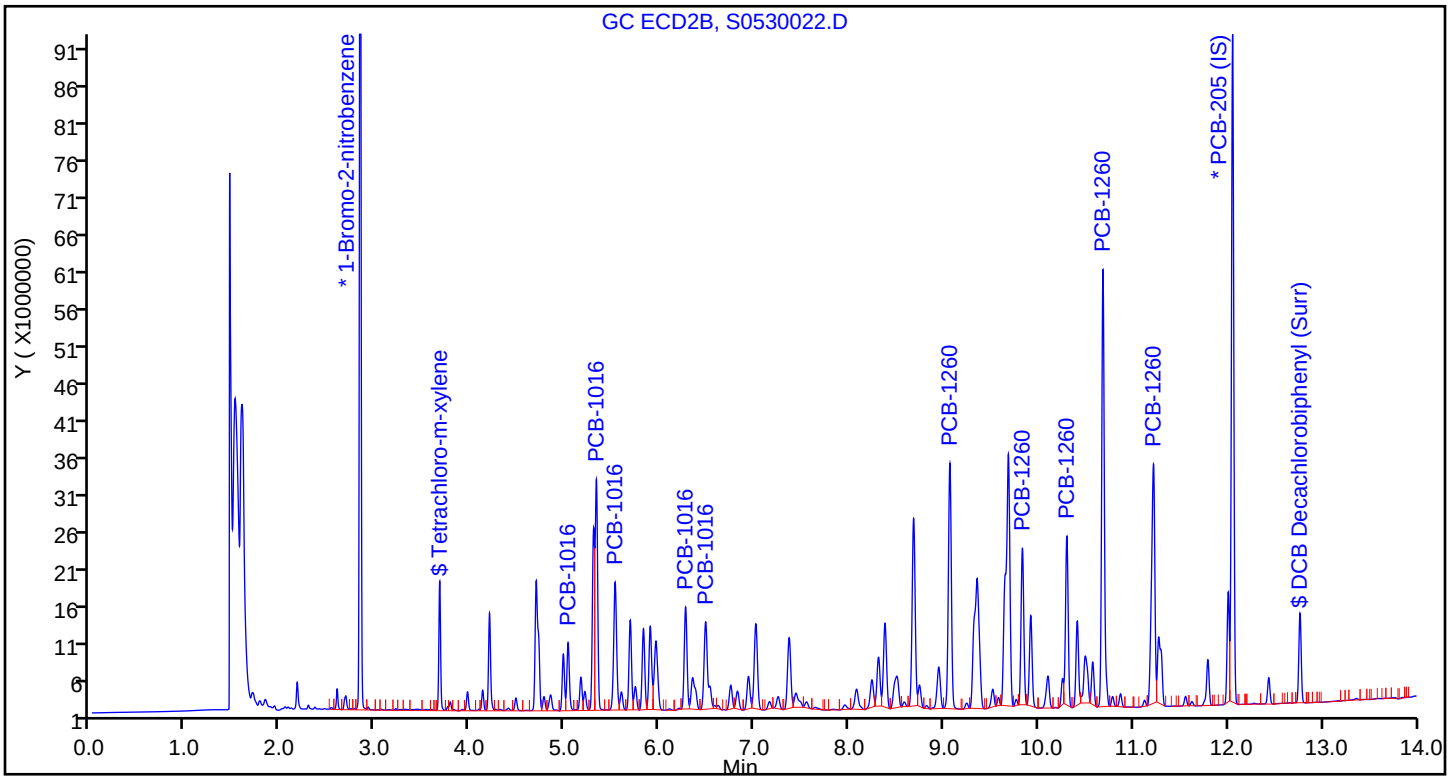
Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: IS PCB_CHGC10DUAL Limit Group: GCS 8082A ICAL with IS

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



User Disabled Compound Report

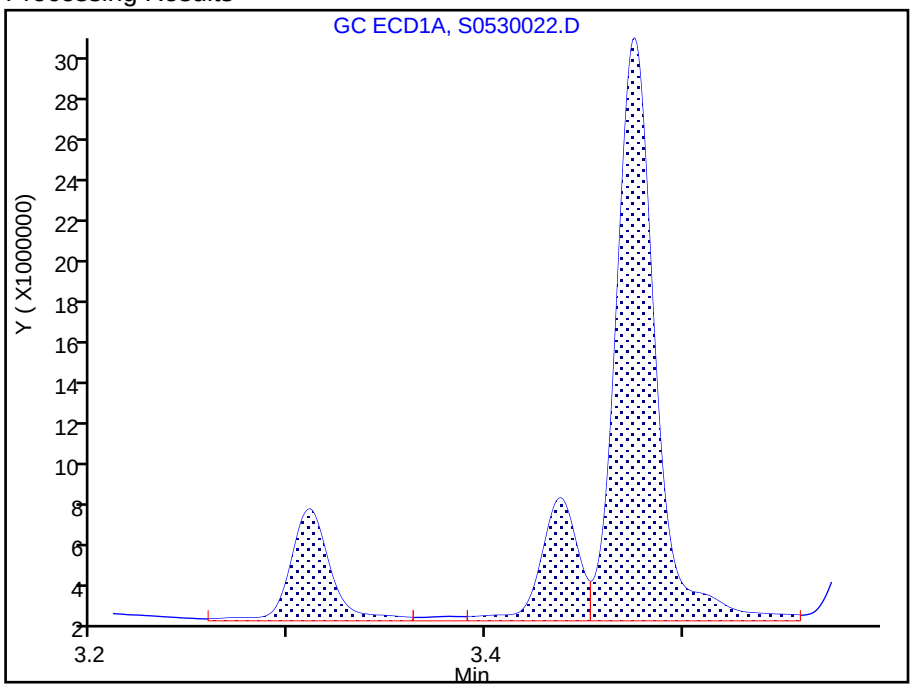
TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CHGC10\20180530-21981.b\S0530022.D		
Injection Date:	30-May-2018 12:02:22	Instrument ID:	CHGC10
Lims ID:	180-78164-A-2-C MSD		
Client ID:	CE-MW-37R2_052218		
Operator ID:		ALS Bottle#:	22 Worklist Smp#: 22
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	IS PCB_CHGC10DUAL	Limit Group:	GCS 8082A ICAL with IS

3 PCB-1221, Detector: 1, GC ECD1A

Processing Results

Exp RT	RT	Response	Amount
3.31	3.31	5308421	0.208975
3.43	3.44	5834987	0.364811
3.47	3.48	27675559	0.454419
		Average =	0.226556



Reviewer: oravecj, 31-May-2018 06:26:18

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

User Disabled Compound Report

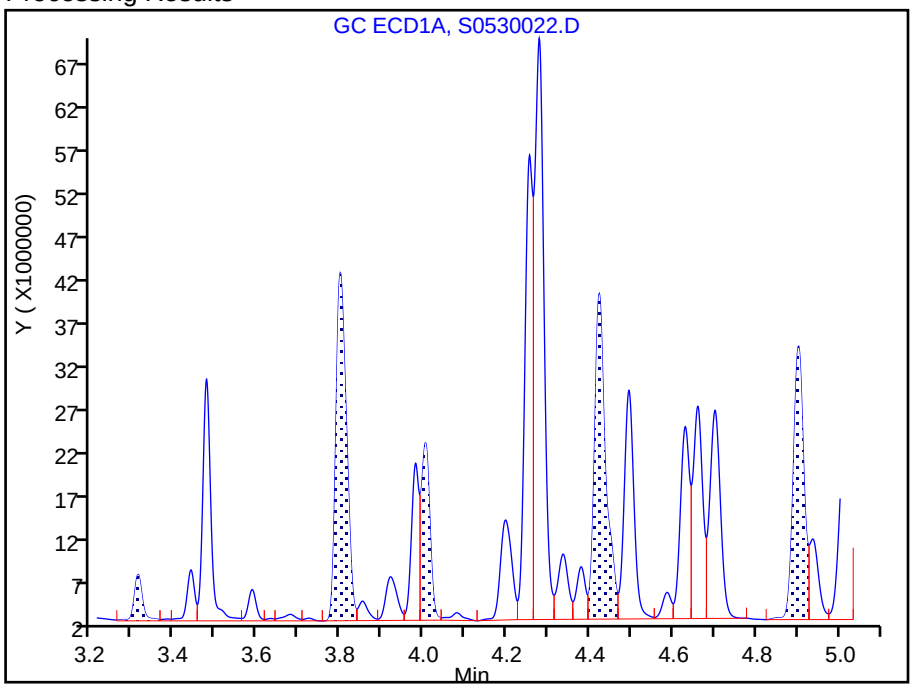
TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180530-21981.b\S0530022.D
Injection Date: 30-May-2018 12:02:22 Instrument ID: CHGC10
Lims ID: 180-78164-A-2-C MSD
Client ID: CE-MW-37R2_052218
Operator ID: ALS Bottle#: 22 Worklist Smp#: 22
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: IS PCB_CHGC10DUAL Limit Group: GCS 8082A ICAL with IS

4 PCB-1232, Detector: 1, GC ECD1A

Processing Results

Exp RT	RT	Response	Amount
3.31	3.31	5308421	0.307915
3.79	3.80	39866473	1.437198
4.00	4.00	20314225	1.300536
4.42	4.42	37289626	1.572101
4.90	4.90	31326618	1.739603
		Average =	1.255359



Reviewer: oravecj, 31-May-2018 06:26:18
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

User Disabled Compound Report

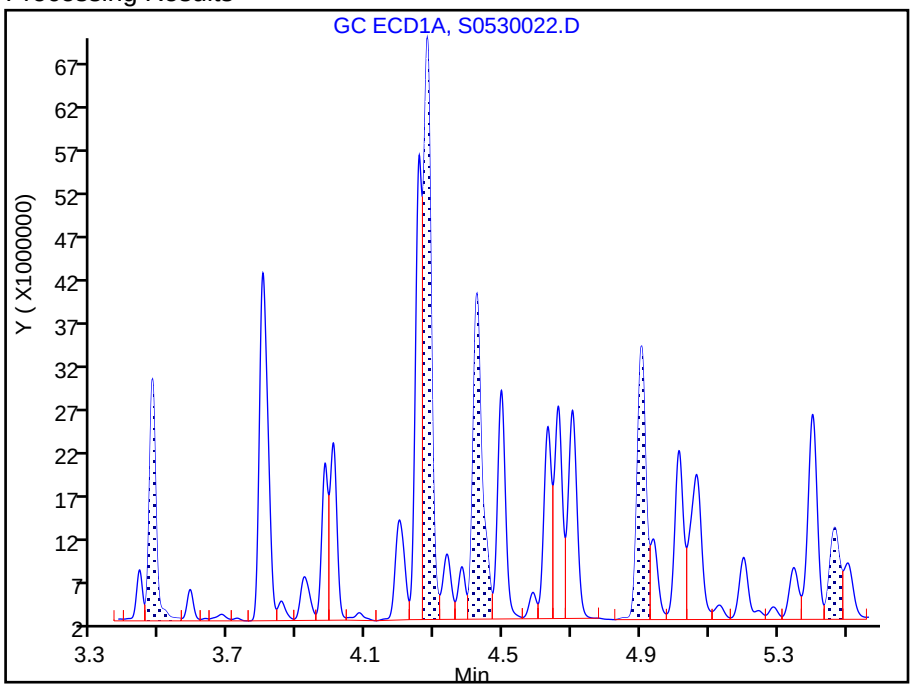
TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180530-21981.b\S0530022.D
Injection Date: 30-May-2018 12:02:22 Instrument ID: CHGC10
Lims ID: 180-78164-A-2-C MSD
Client ID: CE-MW-37R2_052218
Operator ID: ALS Bottle#: 22 Worklist Smp#: 22
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: IS PCB_CHGC10DUAL Limit Group: GCS 8082A ICAL with IS

5 PCB-1242, Detector: 1, GC ECD1A

Processing Results

Exp RT	RT	Response	Amount
3.48	3.48	27675559	0.784929
4.28	4.28	66613773	0.920665
4.42	4.42	37289626	0.882725
4.90	4.90	31326618	0.856219
5.47	5.47	10531506	0.337735
		Average =	0.756455



Reviewer: oravecj, 31-May-2018 06:26:19
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

User Disabled Compound Report

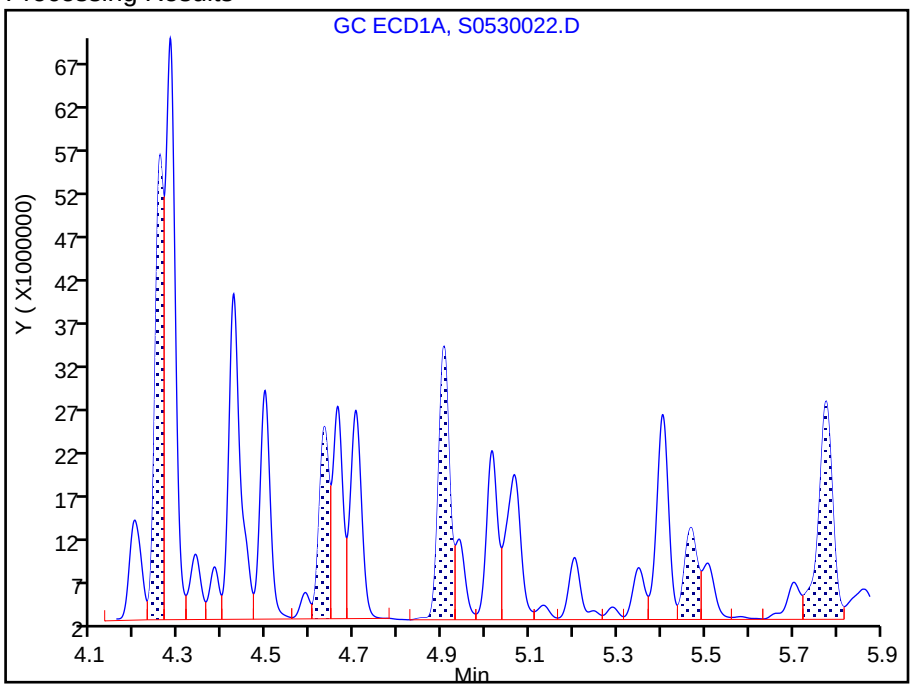
TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180530-21981.b\S0530022.D
Injection Date: 30-May-2018 12:02:22 Instrument ID: CHGC10
Lims ID: 180-78164-A-2-C MSD
Client ID: CE-MW-37R2_052218
Operator ID: ALS Bottle#: 22 Worklist Smp#: 22
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: IS PCB_CHGC10DUAL Limit Group: GCS 8082A ICAL with IS

7 PCB-1248, Detector: 1, GC ECD1A

Processing Results

Exp RT	RT	Response	Amount
4.25	4.25	53224276	1.271214
4.63	4.63	21999957	0.465961
4.90	4.90	31326618	0.539362
5.47	5.47	10531506	0.189591
5.78	5.78	24982368	0.686222
		Average =	0.365551



Reviewer: oravecj, 31-May-2018 06:26:20
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

User Disabled Compound Report

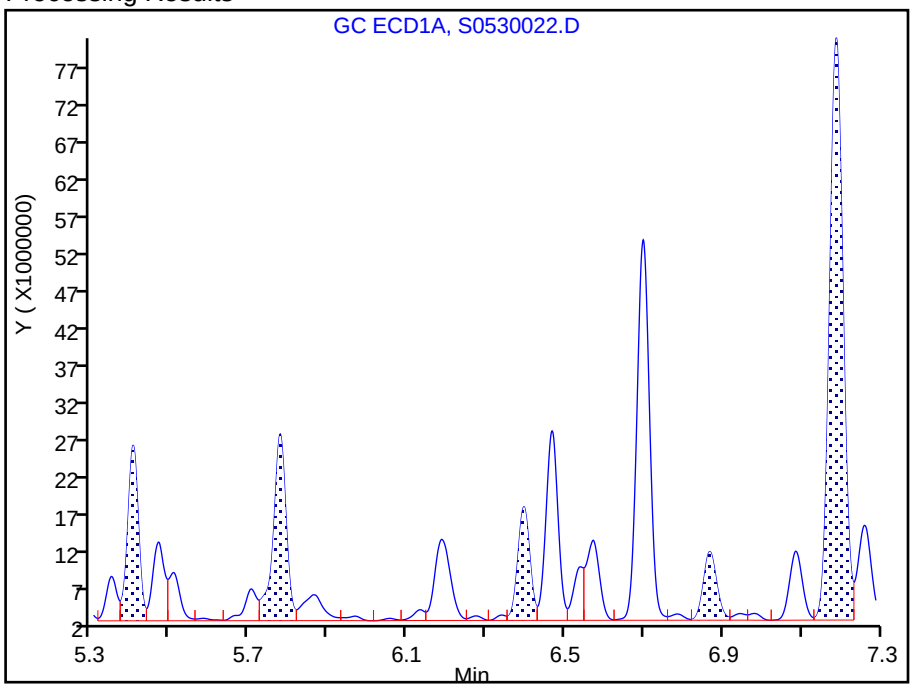
TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180530-21981.b\S0530022.D
Injection Date: 30-May-2018 12:02:22 Instrument ID: CHGC10
Lims ID: 180-78164-A-2-C MSD
Client ID: CE-MW-37R2_052218
Operator ID: ALS Bottle#: 22 Worklist Smp#: 22
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: IS PCB_CHGC10DUAL Limit Group: GCS 8082A ICAL with IS

8 PCB-1254, Detector: 1, GC ECD1A

Processing Results

Exp RT	RT	Response	Amount
5.40	5.40	23470190	0.394952
5.77	5.78	24982368	0.335512
6.39	6.40	15196795	0.158354
6.86	6.87	9175750	0.147341
7.18	7.19	77881910	1.342253
		Average =	0.475682



Reviewer: oravecj, 31-May-2018 06:26:21
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh Job No.: 180-78164-1

SDG No.:

Client Sample ID: CE-MW-37R2_052218 MSD Lab Sample ID: 180-78164-2 MSD

Matrix: Water Lab File ID: S0530022.D

Analysis Method: 8082A Date Collected: 05/22/2018 11:16

Extraction Method: 3510C Date Extracted: 05/29/2018 14:00

Sample wt/vol: 980(mL) Date Analyzed: 05/30/2018 12:02

Con. Extract Vol.: 1.0(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: RTX-CLP2 ID: 0.53(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 246135 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl (Surr)	80		46-126
877-09-8	Tetrachloro-m-xylene	63		36-130

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180530-21981.b\S0530022.D
Lims ID: 180-78164-A-2-C MSD
Client ID: CE-MW-37R2_052218
Sample Type: MSD
Inject. Date: 30-May-2018 12:02:22 ALS Bottle#: 22 Worklist Smp#: 22
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0021981-022
Operator ID: Instrument ID: CHGC10

Method: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180530-21981.b\IS PCB_CHGC10DUAL.m
Limit Group: GCS 8082A ICAL with IS
Last Update: 31-May-2018 06:28:26 Calib Date: 01-Mar-2018 20:27:10
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180301-20692.b\S0301050.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK028

First Level Reviewer: oravecj Date: 31-May-2018 06:26:24

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 1-Bromo-2-nitrobenzene							
1	2.588	2.585	0.003	241241393H	0.1000	0.1000	
2	2.835	2.831	0.005	154680475H	0.1000	0.1000	
$ 2 Tetrachloro-m-xylene							
1	3.175	3.173	0.002	34478725H	0.0200	0.0129	
2	3.675	3.672	0.003	17402371H	0.0200	0.0126	
						RPD = 2.71	
3 PCB-1221							U
1		3.307				ND	
1		3.433					
1		3.471					
2		3.207					
2		3.964					
2		4.196					
4 PCB-1232							U
1		3.308				ND	
1		3.795					
1		4.001					
1		4.421					
1		4.900					
2		3.966					
2		4.691					
2		5.028					
2		5.525					
2		5.684					

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
6 PCB-1016							
1	3.475	3.474	0.001	27675559H	1000.0	0.6989	
1	3.798	3.796	0.002	39866473H	1000.0	0.6873	
1	4.278	4.276	0.002	66613773H	1000.0	0.7798	
1	4.423	4.420	0.003	37289626H	1000.0	0.7510	
1	4.904	4.901	0.003	31326618H	1000.0	0.7441	
		Average of Peak Amounts =				0.7322	
2	5.031	5.029	0.002	9153446H	1000.0	0.6596	
2	5.330	5.327	0.003	31043211H	1000.0	0.7392	
2	5.529	5.526	0.003	17192611H	1000.0	0.7180	
2	6.273	6.270	0.003	13707595H	1000.0	0.7076	
2	6.485	6.481	0.004	11750087H	1000.0	0.7268	
		Average of Peak Amounts =				0.7102	
						RPD = 3.05	
5 PCB-1242							U
1		3.475				ND	
1		4.278					
1		4.423					
1		4.903					
1		5.466					
2		4.694					
2		5.329					
2		5.528					
2		6.271					
2		7.021					
7 PCB-1248							U
1		4.254				ND	
1		4.629					
1		4.901					
1		5.465					
1		5.784					
2		5.824					
2		6.269					
2		6.482					
2		6.934					
2		7.453					
8 PCB-1254							U
1		5.397				ND	
1		5.771					
1		6.389					
1		6.860					
1		7.184					
2		7.357					
2		8.303					
2		9.058					
2		9.361					
2		9.679					

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
10 PCB-1262							U
1		6.694				ND	
1		7.184					
1		7.950					
1		8.422					
1		9.531					
2		8.678					
2		9.826					
2		10.297					
2		10.678					
2		11.205					
9 PCB-1260							
1	6.699	6.696	0.003	50926992H	1000.0	0.8229	
1	7.190	7.186	0.004	77881910H	1000.0	0.8601	
1	7.717	7.715	0.002	63553974H	1000.0	0.9551	
1	8.995	8.992	0.003	102238748H	1000.0	0.8212	
1	9.470	9.469	0.001	59611583H	1000.0	0.8548	
		Average of Peak Amounts =				0.8629	
2	9.065	9.060	0.005	32983064H	1000.0	0.8293	
2	9.831	9.828	0.003	21035699H	1000.0	0.7422	
2	10.301	10.298	0.003	22696270H	1000.0	0.7320	
2	10.683	10.679	0.004	58756185H	1000.0	0.8102	
2	11.216	11.212	0.004	32151222H	1000.0	0.7923	
		Average of Peak Amounts =				0.7812	
						RPD = 9.93	
11 PCB-1268							U
1		9.533				ND	
1		9.597					
1		9.906					
1		10.870					
2		11.200					
2		11.267					
2		11.620					
2		12.432					
* 46 PCB-205 (IS)							
1	10.533	10.528	0.005	162690460H	0.1000	0.1000	
2	12.052	12.048	0.004	89751666H	0.1000	0.1000	
$ 12 DCB Decachlorobiphenyl (Surr)							
1	11.140	11.137	0.003	24409712H	0.0200	0.0170	
2	12.764	12.762	0.002	12055636H	0.0200	0.0159	
						RPD = 6.39	
13 1260 Res 2							
1		0.000				ND	
2		0.000					
14 1260 Res 3							
1		0.000				ND	
2		0.000					
15 1260 Res 1							
1		0.000				ND	
2		0.000					

QC Flag Legend

Review Flags

U - Marked Undetected

Reagents:

PCBINT_00007 Amount Added: 0.01 Units: mL Run Reagent

Report Date: 31-May-2018 06:29:03 Chrom Revision: 2.2 11-May-2018 08:54:46

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180530-21981.b\S0530022.D

Injection Date: 30-May-2018 12:02:22 Instrument ID: CHGC10

Lims ID: 180-78164-A-2-C MSD

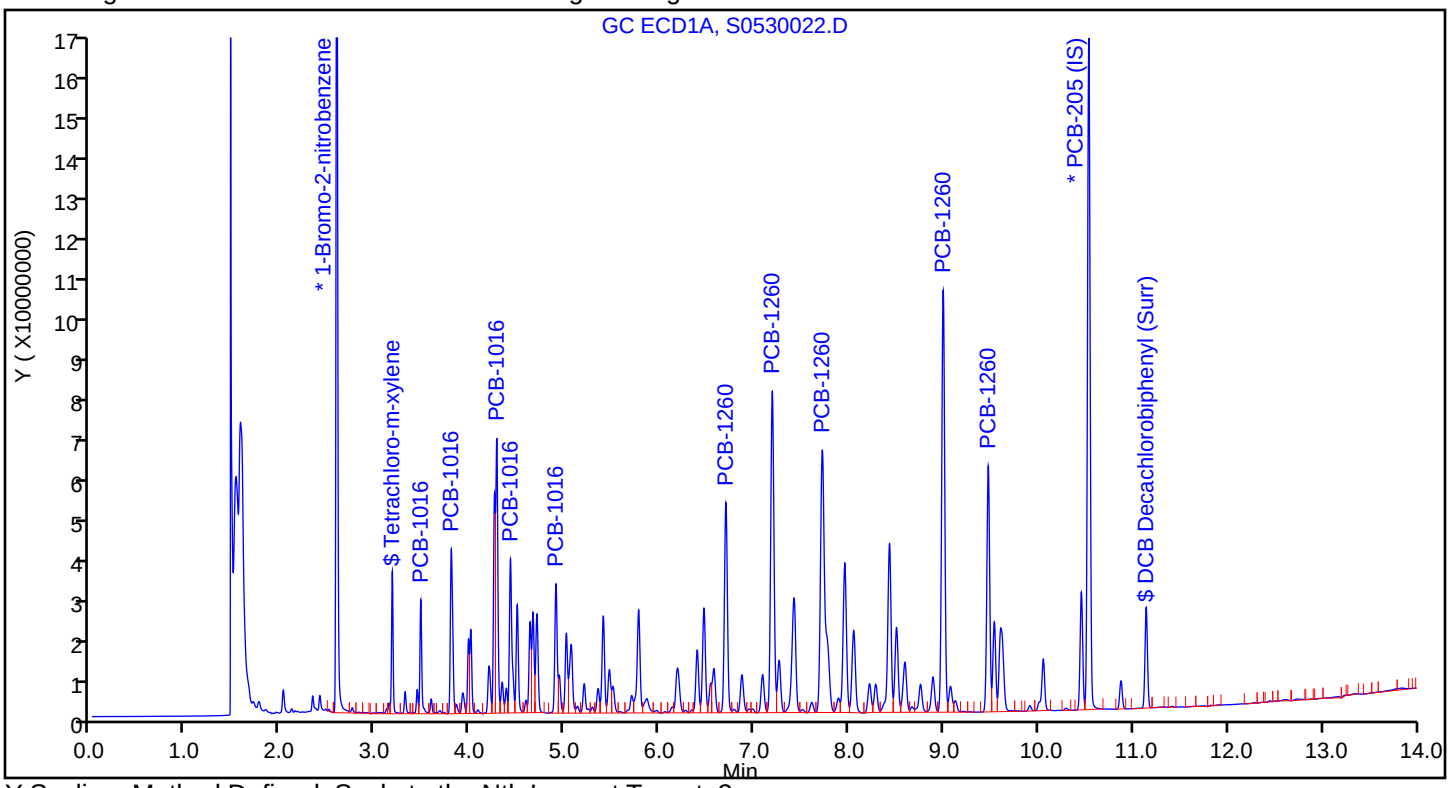
Client ID: CE-MW-37R2_052218

Operator ID: ALS Bottle#: 22 Worklist Smp#: 22

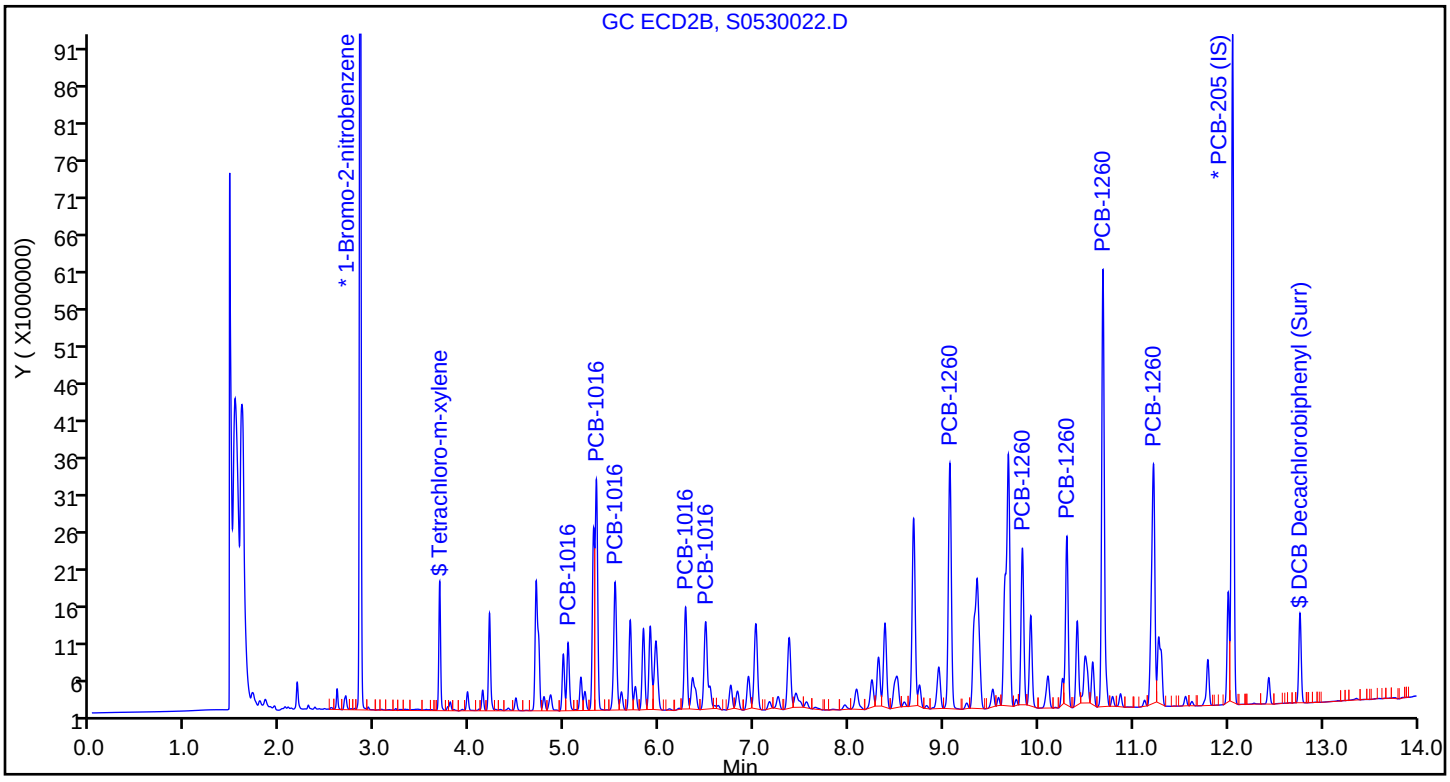
Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: IS PCB_CHGC10DUAL Limit Group: GCS 8082A ICAL with IS

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



User Disabled Compound Report

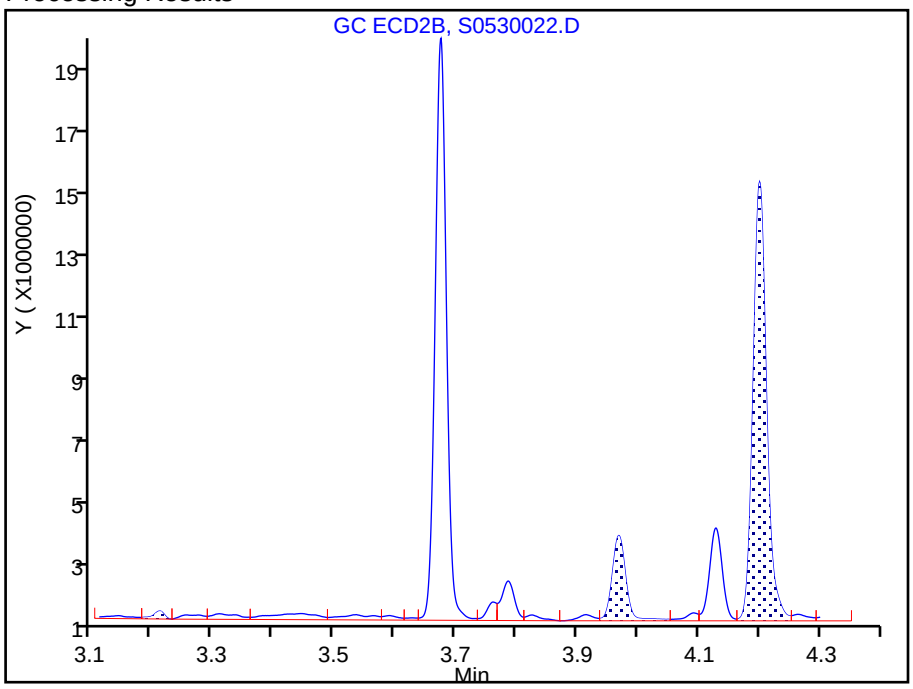
TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180530-21981.b\S0530022.D
Injection Date: 30-May-2018 12:02:22 Instrument ID: CHGC10
Lims ID: 180-78164-A-2-C MSD
Client ID: CE-MW-37R2_052218
Operator ID: ALS Bottle#: 22 Worklist Smp#: 22
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: IS PCB_CHGC10DUAL Limit Group: GCS 8082A ICAL with IS

3 PCB-1221, Detector: 2, GC ECD2B

Processing Results

Exp RT	RT	Response	Amount
3.21	3.21	235802	0.011747
3.96	3.97	2548532	0.192619
4.20	4.20	13118258	0.475301
		Average =	0.226556



Reviewer: oravecj, 31-May-2018 06:26:18
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

User Disabled Compound Report

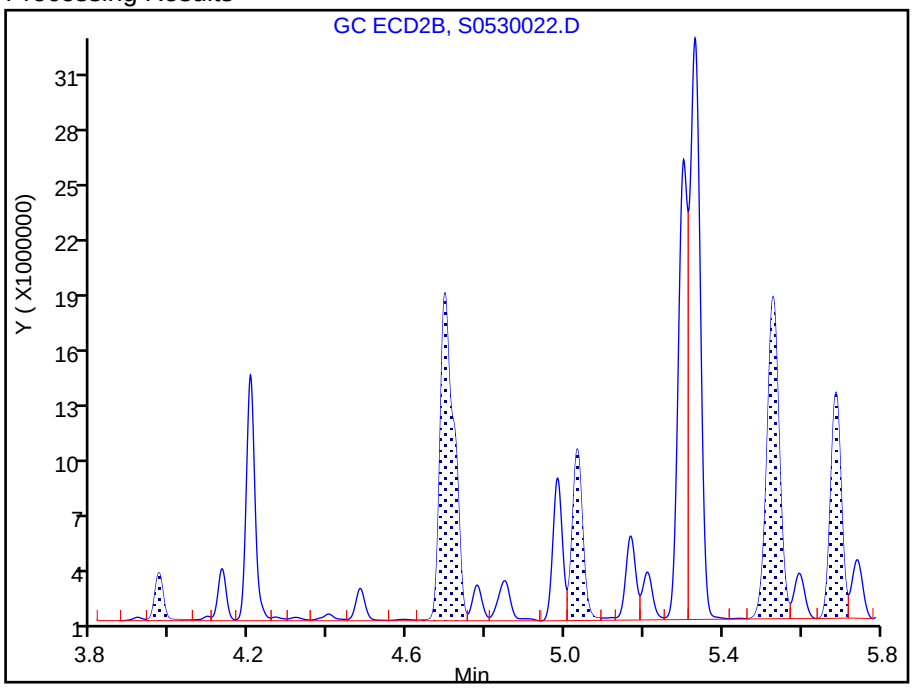
TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180530-21981.b\S0530022.D
Injection Date: 30-May-2018 12:02:22 Instrument ID: CHGC10
Lims ID: 180-78164-A-2-C MSD
Client ID: CE-MW-37R2_052218
Operator ID: ALS Bottle#: 22 Worklist Smp#: 22
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: IS PCB_CHGC10DUAL Limit Group: GCS 8082A ICAL with IS

4 PCB-1232, Detector: 2, GC ECD2B

Processing Results

Exp RT	RT	Response	Amount
3.97	3.97	2548532	0.296879
4.69	4.70	17492663	1.434912
5.03	5.03	9153446	1.372762
5.52	5.53	17192611	1.603288
5.68	5.69	12057482	1.568952
		Average =	1.255359



Reviewer: oravecj, 31-May-2018 06:26:18
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

User Disabled Compound Report

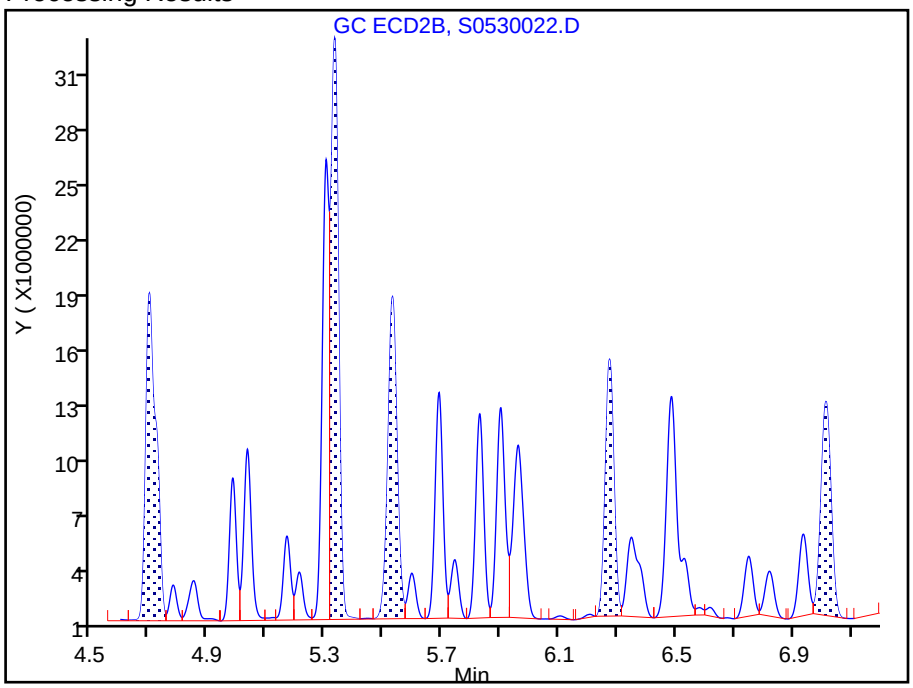
TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180530-21981.b\S0530022.D
Injection Date: 30-May-2018 12:02:22 Instrument ID: CHGC10
Lims ID: 180-78164-A-2-C MSD
Client ID: CE-MW-37R2_052218
Operator ID: ALS Bottle#: 22 Worklist Smp#: 22
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: IS PCB_CHGC10DUAL Limit Group: GCS 8082A ICAL with IS

5 PCB-1242, Detector: 2, GC ECD2B

Processing Results

Exp RT	RT	Response	Amount
4.69	4.70	17492663	0.786649
5.33	5.33	31043211	0.888175
5.53	5.53	17192611	0.855111
6.27	6.27	13707595	0.823646
7.02	7.01	11425306	0.674855
		Average =	0.756455



Reviewer: oravecj, 31-May-2018 06:26:19
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

User Disabled Compound Report

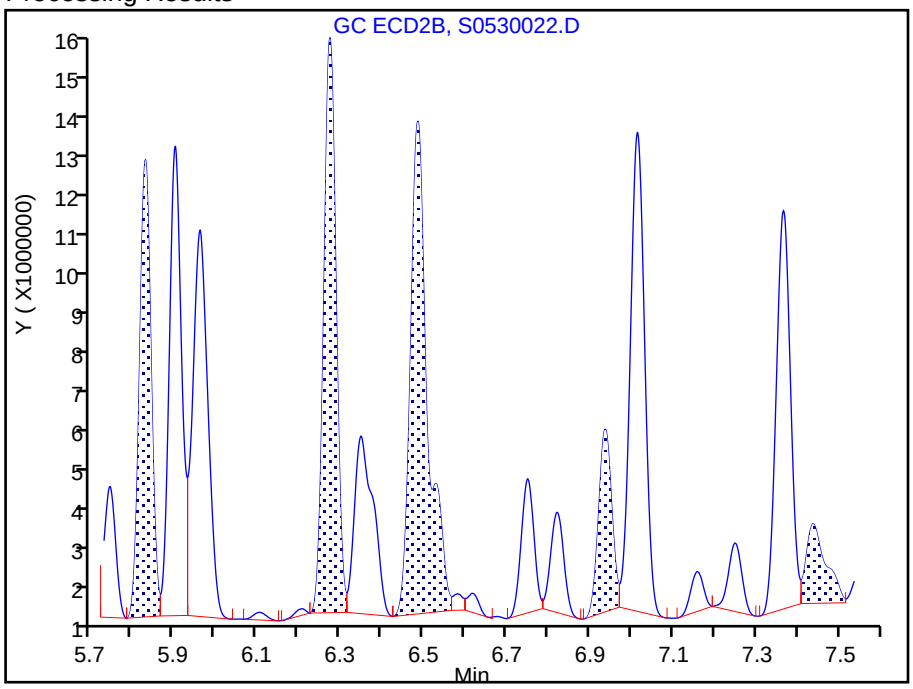
TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180530-21981.b\S0530022.D
Injection Date: 30-May-2018 12:02:22 Instrument ID: CHGC10
Lims ID: 180-78164-A-2-C MSD
Client ID: CE-MW-37R2_052218
Operator ID: ALS Bottle#: 22 Worklist Smp#: 22
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: IS PCB_CHGC10DUAL Limit Group: GCS 8082A ICAL with IS

7 PCB-1248, Detector: 2, GC ECD2B

Processing Results

Exp RT	RT	Response	Amount
5.82	5.83	10903515	0.505737
6.27	6.27	13707595	0.523386
6.48	6.49	11750087	0.546657
6.93	6.94	4350861	0.160317
7.45	7.44	1902177	0.091656
		Average =	0.365551



Reviewer: oravecj, 31-May-2018 06:26:20
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

User Disabled Compound Report

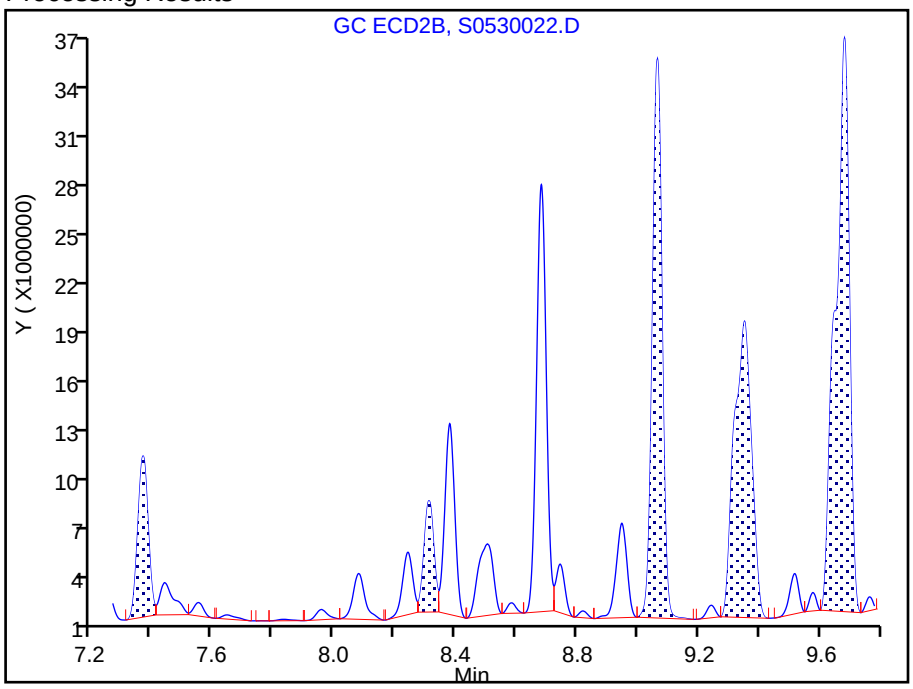
TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC10\20180530-21981.b\S0530022.D
Injection Date: 30-May-2018 12:02:22 Instrument ID: CHGC10
Lims ID: 180-78164-A-2-C MSD
Client ID: CE-MW-37R2_052218
Operator ID: ALS Bottle#: 22 Worklist Smp#: 22
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: IS PCB_CHGC10DUAL Limit Group: GCS 8082A ICAL with IS

8 PCB-1254, Detector: 2, GC ECD2B

Processing Results

Exp RT	RT	Response	Amount
7.36	7.37	9504386	0.297512
8.30	8.31	6563160	0.190690
9.06	9.07	32983064	1.606618
9.36	9.35	17476384	0.693303
9.68	9.68	33835095	0.874600
		Average =	0.475682



Reviewer: oravecj, 31-May-2018 06:26:21
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

PCBS ANALYSIS RUN LOG

Lab Name: TestAmerica Pittsburgh Job No.: 180-78164-1

SDG No.:

Instrument ID: CHGC10 Start Date: 03/01/2018 12:35

Analysis Batch Number: 238236 End Date: 03/02/2018 08:22

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
IC 180-238236/1		03/01/2018 12:35	1	S0301025.D	RTX-CLP1 0.53(mm)
IC 180-238236/1		03/01/2018 12:35	1	S0301025.D	RTX-CLP2 0.53(mm)
IC 180-238236/2		03/01/2018 12:54	1	S0301026.D	RTX-CLP1 0.53(mm)
IC 180-238236/2		03/01/2018 12:54	1	S0301026.D	RTX-CLP2 0.53(mm)
IC 180-238236/3		03/01/2018 13:13	1	S0301027.D	RTX-CLP1 0.53(mm)
IC 180-238236/3		03/01/2018 13:13	1	S0301027.D	RTX-CLP2 0.53(mm)
IC 180-238236/4		03/01/2018 13:31	1	S0301028.D	RTX-CLP1 0.53(mm)
IC 180-238236/4		03/01/2018 13:31	1	S0301028.D	RTX-CLP2 0.53(mm)
IC 180-238236/5		03/01/2018 13:50	1	S0301029.D	RTX-CLP1 0.53(mm)
IC 180-238236/5		03/01/2018 13:50	1	S0301029.D	RTX-CLP2 0.53(mm)
IC 180-238236/6		03/01/2018 14:09	1	S0301030.D	RTX-CLP1 0.53(mm)
IC 180-238236/6		03/01/2018 14:09	1	S0301030.D	RTX-CLP2 0.53(mm)
IC 180-238236/7		03/01/2018 14:28	1	S0301031.D	RTX-CLP1 0.53(mm)
IC 180-238236/7		03/01/2018 14:28	1	S0301031.D	RTX-CLP2 0.53(mm)
IC 180-238236/8		03/01/2018 14:47	1	S0301032.D	RTX-CLP1 0.53(mm)
IC 180-238236/8		03/01/2018 14:47	1	S0301032.D	RTX-CLP2 0.53(mm)
IC 180-238236/9		03/01/2018 15:06	1	S0301033.D	RTX-CLP1 0.53(mm)
IC 180-238236/9		03/01/2018 15:06	1	S0301033.D	RTX-CLP2 0.53(mm)
IC 180-238236/10		03/01/2018 15:25	1	S0301034.D	RTX-CLP1 0.53(mm)
IC 180-238236/10		03/01/2018 15:25	1	S0301034.D	RTX-CLP2 0.53(mm)
IC 180-238236/11		03/01/2018 15:44	1	S0301035.D	RTX-CLP1 0.53(mm)
IC 180-238236/11		03/01/2018 15:44	1	S0301035.D	RTX-CLP2 0.53(mm)
IC 180-238236/12		03/01/2018 16:02	1	S0301036.D	RTX-CLP1 0.53(mm)
IC 180-238236/12		03/01/2018 16:02	1	S0301036.D	RTX-CLP2 0.53(mm)
IC 180-238236/13		03/01/2018 16:21	1	S0301037.D	RTX-CLP1 0.53(mm)
IC 180-238236/13		03/01/2018 16:21	1	S0301037.D	RTX-CLP2 0.53(mm)
IC 180-238236/14		03/01/2018 16:40	1	S0301038.D	RTX-CLP1 0.53(mm)
IC 180-238236/14		03/01/2018 16:40	1	S0301038.D	RTX-CLP2 0.53(mm)
IC 180-238236/15		03/01/2018 16:59	1	S0301039.D	RTX-CLP1 0.53(mm)
IC 180-238236/15		03/01/2018 16:59	1	S0301039.D	RTX-CLP2 0.53(mm)
IC 180-238236/16		03/01/2018 17:18	1	S0301040.D	RTX-CLP1 0.53(mm)
IC 180-238236/16		03/01/2018 17:18	1	S0301040.D	RTX-CLP2 0.53(mm)
IC 180-238236/17		03/01/2018 17:37	1	S0301041.D	RTX-CLP1 0.53(mm)
IC 180-238236/17		03/01/2018 17:37	1	S0301041.D	RTX-CLP2 0.53(mm)
IC 180-238236/18		03/01/2018 17:56	1	S0301042.D	RTX-CLP1 0.53(mm)
IC 180-238236/18		03/01/2018 17:56	1	S0301042.D	RTX-CLP2 0.53(mm)
IC 180-238236/19		03/01/2018 18:15	1	S0301043.D	RTX-CLP1 0.53(mm)
IC 180-238236/19		03/01/2018 18:15	1	S0301043.D	RTX-CLP2 0.53(mm)
IC 180-238236/20		03/01/2018 18:33	1	S0301044.D	RTX-CLP1 0.53(mm)
IC 180-238236/20		03/01/2018 18:33	1	S0301044.D	RTX-CLP2 0.53(mm)
IC 180-238236/21		03/01/2018 18:52	1	S0301045.D	RTX-CLP1 0.53(mm)
IC 180-238236/21		03/01/2018 18:52	1	S0301045.D	RTX-CLP2 0.53(mm)
IC 180-238236/22		03/01/2018 19:11	1	S0301046.D	RTX-CLP1 0.53(mm)
IC 180-238236/22		03/01/2018 19:11	1	S0301046.D	RTX-CLP2 0.53(mm)
ICIS 180-238236/23		03/01/2018 19:30	1	S0301047.D	RTX-CLP1 0.53(mm)

8082A

PCBS ANALYSIS RUN LOG

Lab Name: TestAmerica Pittsburgh Job No.: 180-78164-1

SDG No.:

Instrument ID: CHGC10 Start Date: 03/01/2018 12:35

Analysis Batch Number: 238236 End Date: 03/02/2018 08:22

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ICIS 180-238236/23		03/01/2018 19:30	1	S0301047.D	RTX-CLP2 0.53(mm)
IC 180-238236/24		03/01/2018 19:49	1	S0301048.D	RTX-CLP1 0.53(mm)
IC 180-238236/24		03/01/2018 19:49	1	S0301048.D	RTX-CLP2 0.53(mm)
IC 180-238236/25		03/01/2018 20:08	1	S0301049.D	RTX-CLP1 0.53(mm)
IC 180-238236/25		03/01/2018 20:08	1	S0301049.D	RTX-CLP2 0.53(mm)
IC 180-238236/26		03/01/2018 20:27	1	S0301050.D	RTX-CLP1 0.53(mm)
IC 180-238236/26		03/01/2018 20:27	1	S0301050.D	RTX-CLP2 0.53(mm)
ICV 180-238236/27		03/01/2018 20:46	1		RTX-CLP1 0.53(mm)
ICV 180-238236/27		03/01/2018 20:46	1		RTX-CLP2 0.53(mm)
ICV 180-238236/28		03/01/2018 21:04	1		RTX-CLP1 0.53(mm)
ICV 180-238236/28		03/01/2018 21:04	1		RTX-CLP2 0.53(mm)
ICV 180-238236/29		03/01/2018 21:23	1		RTX-CLP1 0.53(mm)
ICV 180-238236/29		03/01/2018 21:23	1		RTX-CLP2 0.53(mm)
ICV 180-238236/30		03/01/2018 21:42	1		RTX-CLP1 0.53(mm)
ICV 180-238236/30		03/01/2018 21:42	1		RTX-CLP2 0.53(mm)
ICV 180-238236/31		03/01/2018 22:01	1		RTX-CLP1 0.53(mm)
ICV 180-238236/31		03/01/2018 22:01	1		RTX-CLP2 0.53(mm)
ZZZZZ		03/01/2018 22:20	1		RTX-CLP1 0.53(mm)
ZZZZZ		03/01/2018 22:20	1		RTX-CLP2 0.53(mm)
ZZZZZ		03/01/2018 22:39	1		RTX-CLP1 0.53(mm)
ZZZZZ		03/01/2018 22:39	1		RTX-CLP2 0.53(mm)
ZZZZZ		03/01/2018 22:58	1		RTX-CLP1 0.53(mm)
ZZZZZ		03/01/2018 22:58	1		RTX-CLP2 0.53(mm)
ZZZZZ		03/01/2018 23:16	1		RTX-CLP1 0.53(mm)
ZZZZZ		03/01/2018 23:16	1		RTX-CLP2 0.53(mm)
ZZZZZ		03/01/2018 23:35	1		RTX-CLP1 0.53(mm)
ZZZZZ		03/01/2018 23:35	1		RTX-CLP2 0.53(mm)
ZZZZZ		03/01/2018 23:54	1		RTX-CLP1 0.53(mm)
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ZZZZZ		03/02/2018 00:13	1		RTX-CLP1 0.53(mm)
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ZZZZZ		03/02/2018 00:32	1		RTX-CLP2 0.53(mm)
ZZZZZ		03/02/2018 00:51	1		RTX-CLP1 0.53(mm)
ZZZZZ		03/02/2018 00:51	1		RTX-CLP2 0.53(mm)
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ZZZZZ		03/02/2018 01:10	1		RTX-CLP2 0.53(mm)
ZZZZZ		03/02/2018 01:28	1		RTX-CLP1 0.53(mm)
ZZZZZ		03/02/2018 01:28	1		RTX-CLP2 0.53(mm)
ZZZZZ		03/02/2018 03:21	1		RTX-CLP1 0.53(mm)
ZZZZZ		03/02/2018 03:21	1		RTX-CLP2 0.53(mm)
ZZZZZ		03/02/2018 03:40	1		RTX-CLP1 0.53(mm)
ZZZZZ		03/02/2018 03:40	1		RTX-CLP2 0.53(mm)
ZZZZZ		03/02/2018 03:59	1		RTX-CLP1 0.53(mm)
ZZZZZ		03/02/2018 03:59	1		RTX-CLP2 0.53(mm)

8082A

PCBS ANALYSIS RUN LOG

Lab Name: TestAmerica Pittsburgh Job No.: 180-78164-1

SDG No.:

Instrument ID: CHGC10 Start Date: 03/01/2018 12:35

Analysis Batch Number: 238236 End Date: 03/02/2018 08:22

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		03/02/2018 04:18	1		RTX-CLP1 0.53(mm)
ZZZZZ		03/02/2018 04:18	1		RTX-CLP2 0.53(mm)
CCVIS 180-238236/52		03/02/2018 04:36	1		RTX-CLP1 0.53(mm)
CCVIS 180-238236/52		03/02/2018 04:36	1		RTX-CLP2 0.53(mm)
ZZZZZ		03/02/2018 04:55	1		RTX-CLP1 0.53(mm)
ZZZZZ		03/02/2018 04:55	1		RTX-CLP2 0.53(mm)
ZZZZZ		03/02/2018 05:14	1		RTX-CLP1 0.53(mm)
ZZZZZ		03/02/2018 05:14	1		RTX-CLP2 0.53(mm)
ZZZZZ		03/02/2018 05:33	10		RTX-CLP1 0.53(mm)
ZZZZZ		03/02/2018 05:33	10		RTX-CLP2 0.53(mm)
ZZZZZ		03/02/2018 05:52	10		RTX-CLP1 0.53(mm)
ZZZZZ		03/02/2018 05:52	10		RTX-CLP2 0.53(mm)
ZZZZZ		03/02/2018 06:10	10		RTX-CLP1 0.53(mm)
ZZZZZ		03/02/2018 06:10	10		RTX-CLP2 0.53(mm)
ZZZZZ		03/02/2018 06:29	10		RTX-CLP1 0.53(mm)
ZZZZZ		03/02/2018 06:29	10		RTX-CLP2 0.53(mm)
ZZZZZ		03/02/2018 06:48	10		RTX-CLP1 0.53(mm)
ZZZZZ		03/02/2018 06:48	10		RTX-CLP2 0.53(mm)
RINSE 180-238236/60		03/02/2018 07:07	1		RTX-CLP1 0.53(mm)
RINSE 180-238236/60		03/02/2018 07:07	1		RTX-CLP2 0.53(mm)
ZZZZZ		03/02/2018 07:26	1		RTX-CLP1 0.53(mm)
ZZZZZ		03/02/2018 07:26	1		RTX-CLP2 0.53(mm)
ZZZZZ		03/02/2018 07:44	1		RTX-CLP1 0.53(mm)
ZZZZZ		03/02/2018 07:44	1		RTX-CLP2 0.53(mm)
ZZZZZ		03/02/2018 08:03	1		RTX-CLP1 0.53(mm)
ZZZZZ		03/02/2018 08:03	1		RTX-CLP2 0.53(mm)
ZZZZZ		03/02/2018 08:22	1		RTX-CLP1 0.53(mm)
ZZZZZ		03/02/2018 08:22	1		RTX-CLP2 0.53(mm)

PCBS ANALYSIS RUN LOG

Lab Name: TestAmerica Pittsburgh Job No.: 180-78164-1

SDG No.:

Instrument ID: CHGC10 Start Date: 05/30/2018 05:28

Analysis Batch Number: 246135 End Date: 05/30/2018 14:13

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
RTC 180-246135/1		05/30/2018 05:28	1		RTX-CLP1 0.53(mm)
RTC 180-246135/1		05/30/2018 05:28	1		RTX-CLP2 0.53(mm)
RTC 180-246135/2		05/30/2018 05:47	1		RTX-CLP1 0.53(mm)
RTC 180-246135/2		05/30/2018 05:47	1		RTX-CLP2 0.53(mm)
RTC 180-246135/3		05/30/2018 06:06	1		RTX-CLP1 0.53(mm)
RTC 180-246135/3		05/30/2018 06:06	1		RTX-CLP2 0.53(mm)
RTC 180-246135/4		05/30/2018 06:24	1	S0530004.D	RTX-CLP1 0.53(mm)
RTC 180-246135/4		05/30/2018 06:24	1	S0530004.D	RTX-CLP2 0.53(mm)
CCVIS 180-246135/5		05/30/2018 06:43	1		RTX-CLP1 0.53(mm)
CCVIS 180-246135/5		05/30/2018 06:43	1		RTX-CLP2 0.53(mm)
ZZZZZ		05/30/2018 08:36	1		RTX-CLP1 0.53(mm)
ZZZZZ		05/30/2018 08:36	1		RTX-CLP2 0.53(mm)
ZZZZZ		05/30/2018 08:54	1		RTX-CLP1 0.53(mm)
ZZZZZ		05/30/2018 08:54	1		RTX-CLP2 0.53(mm)
ZZZZZ		05/30/2018 09:13	1		RTX-CLP1 0.53(mm)
ZZZZZ		05/30/2018 09:13	1		RTX-CLP2 0.53(mm)
ZZZZZ		05/30/2018 09:32	1		RTX-CLP1 0.53(mm)
ZZZZZ		05/30/2018 09:32	1		RTX-CLP2 0.53(mm)
ZZZZZ		05/30/2018 09:51	1		RTX-CLP1 0.53(mm)
ZZZZZ		05/30/2018 09:51	1		RTX-CLP2 0.53(mm)
CCVIS 180-246135/16		05/30/2018 10:09	1	S0530016.D	RTX-CLP1 0.53(mm)
CCVIS 180-246135/16		05/30/2018 10:09	1	S0530016.D	RTX-CLP2 0.53(mm)
MB 180-246110/1-A		05/30/2018 10:28	1	S0530017.D	RTX-CLP1 0.53(mm)
MB 180-246110/1-A		05/30/2018 10:28	1	S0530017.D	RTX-CLP2 0.53(mm)
LCS 180-246110/2-A		05/30/2018 10:47	1	S0530018.D	RTX-CLP1 0.53(mm)
LCS 180-246110/2-A		05/30/2018 10:47	1	S0530018.D	RTX-CLP2 0.53(mm)
ZZZZZ		05/30/2018 11:06	1		RTX-CLP1 0.53(mm)
ZZZZZ		05/30/2018 11:06	1		RTX-CLP2 0.53(mm)
180-78164-2		05/30/2018 11:24	1	S0530020.D	RTX-CLP1 0.53(mm)
180-78164-2		05/30/2018 11:24	1	S0530020.D	RTX-CLP2 0.53(mm)
180-78164-2 MS		05/30/2018 11:43	1	S0530021.D	RTX-CLP1 0.53(mm)
180-78164-2 MS		05/30/2018 11:43	1	S0530021.D	RTX-CLP2 0.53(mm)
180-78164-2 MSD		05/30/2018 12:02	1	S0530022.D	RTX-CLP1 0.53(mm)
180-78164-2 MSD		05/30/2018 12:02	1	S0530022.D	RTX-CLP2 0.53(mm)
180-78164-3		05/30/2018 12:21	1	S0530023.D	RTX-CLP1 0.53(mm)
180-78164-3		05/30/2018 12:21	1	S0530023.D	RTX-CLP2 0.53(mm)
180-78164-4		05/30/2018 12:39	1	S0530024.D	RTX-CLP1 0.53(mm)
180-78164-4		05/30/2018 12:39	1	S0530024.D	RTX-CLP2 0.53(mm)
180-78164-5		05/30/2018 12:58	1	S0530025.D	RTX-CLP1 0.53(mm)
180-78164-5		05/30/2018 12:58	1	S0530025.D	RTX-CLP2 0.53(mm)
180-78164-6		05/30/2018 13:17	1	S0530026.D	RTX-CLP1 0.53(mm)
180-78164-6		05/30/2018 13:17	1	S0530026.D	RTX-CLP2 0.53(mm)
180-78164-7		05/30/2018 13:36	1	S0530027.D	RTX-CLP1 0.53(mm)
180-78164-7		05/30/2018 13:36	1	S0530027.D	RTX-CLP2 0.53(mm)
180-78164-8		05/30/2018 13:54	1	S0530028.D	RTX-CLP1 0.53(mm)

8082A

PCBS ANALYSIS RUN LOG

Lab Name: TestAmerica Pittsburgh Job No.: 180-78164-1

SDG No.:

Instrument ID: CHGC10 Start Date: 05/30/2018 05:28

Analysis Batch Number: 246135 End Date: 05/30/2018 14:13

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
180-78164-8		05/30/2018 13:54	1	S0530028.D	RTX-CLP2 0.53(mm)
180-78164-9		05/30/2018 14:13	1	S0530029.D	RTX-CLP1 0.53(mm)
180-78164-9		05/30/2018 14:13	1	S0530029.D	RTX-CLP2 0.53(mm)

PCBS BATCH WORKSHEET

Lab Name: TestAmerica Pittsburgh Job No.: 180-78164-1

SDG No.:

Batch Number: 246110 Batch Start Date: 05/29/18 14:00 Batch Analyst: Yushinski, Charles

Batch Method: 3510C Batch End Date: 05/29/18 20:50

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	ReceivedpH	GCMATRIXWORKS 00030	OP/PESTPCBRTS 00007	
MB 180-246110/1		3510C, 8082A		1000 mL	1.0 mL	6 SU		0.1 mL	
LCS 180-246110/2		3510C, 8082A		1000 mL	1.0 mL	6 SU	25 uL	0.1 mL	
180-78164-A-2	CE-MW-37R2_052218	3510C, 8082A	T	960 mL	1.0 mL	7 SU		0.1 mL	
180-78164-A-2 MS	CE-MW-37R2_052218	3510C, 8082A	T	960 mL	1.0 mL	7 SU	25 uL	0.1 mL	
180-78164-A-2 MSD	CE-MW-37R2_052218	3510C, 8082A	T	980 mL	1.0 mL	7 SU	25 uL	0.1 mL	
180-78164-A-3	CE-MW-34R3_052218	3510C, 8082A	T	980 mL	1.0 mL	7 SU		0.1 mL	
180-78164-A-4	CE-MW-32R2_052218	3510C, 8082A	T	960 mL	1.0 mL	7 SU		0.1 mL	
180-78164-A-5	CE-MW-31R2_052318	3510C, 8082A	T	980 mL	1.0 mL	7 SU		0.1 mL	
180-78164-A-6	CE-MW-29R5_052318	3510C, 8082A	T	970 mL	1.0 mL	7 SU		0.1 mL	
180-78164-A-7	CE-MW-28R5_052318	3510C, 8082A	T	980 mL	1.0 mL	7 SU		0.1 mL	
180-78164-A-8	CE-MW-28R5A_052318	3510C, 8082A	T	980 mL	1.0 mL	7 SU		0.1 mL	
180-78164-A-9	CE-EB-73_052318	3510C, 8082A	T	990 mL	1.0 mL	5 SU		0.1 mL	

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

PCBS BATCH WORKSHEET

Lab Name: TestAmerica Pittsburgh Job No.: 180-78164-1

SDG No.:

Batch Number: 246110 Batch Start Date: 05/29/18 14:00 Batch Analyst: Yushinski, Charles

Batch Method: 3510C Batch End Date: 05/29/18 20:50

Batch Notes	
Analyst ID - Concentration	CBY
Concentration 1 Corrected Temperature	65 Degrees C
Concentration 2 Corrected Temperature	21 Degrees C
Equipment ID - Concentration 1	water bath
Equipment ID - Concentration 2	1
Exchange Solvent ID	Hexane 2745552
Analyst ID - Extraction	CBY
Filter ID	9792820
Na2SO4 ID	2553602
pH Indicator ID	Ph paper HC740840
Prep Solvent ID	Methylene chloride 2754502
Prep Solvent Volume Used	180 mL
Analyst ID - Spike Analyst	CBY
Sufficient Volume for Batch QC	yes
Thermometer ID - Concentration 1	water bath
Thermometer ID - Concentration 2	1
Concentration 1 Uncorrected Temperature	65 Degrees C
Concentration 2 Uncorrected Temperature	21 Degrees C

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Shipping and Receiving Documents

777 New Durham Road
Edison, New Jersey 08817
Phone: (732) 549-3900 Fax: (732) 549-3679

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

CHAIN OF CUSTODY / ANALYSIS REQUEST

Name (for report and invoice) Neoma Chetalo / Steve Gross	Samplers Name (Printed) Christopher Ruopolo	Site/Project Identification CE Flushing 40-22 College Point Blvd, Queens, NY
Company AKRF, Inc.	P. O. # 30141	State (Location of site): NJ: ☐ NY: ☒ Other:
		Regulatory Program: DKQP: ☐
Address 440 Park Ave. S. 7th Fl	Analysis Turnaround Time: Standard ☒	
City New York, State NY	Rush Charges Authorized For: 2 Week ☐ 1 Week ☐ Other ☐	
Phone 646-388-9854 Fax		

ANALYSIS REQUESTED (ENTER "X" BELOW TO INDICATE REQUEST)

LAB USE ONLY
Project No:
Job No:

Sample Identification	Date	Time	Matrix	No. of Cont.	Total PCBs 8082	Sample Numbers
CE-MW-38R2_052118	5/21/18	16:31	GW	2	X	
CE-MW-37R2_052218	5/22/18	11:16	GW	2	X	
CE-MW-37R2-MS_052218	5/22/18	11:16	GW	2	X	
CE-MW-37R2MSD_052218	5/22/18	11:16	GW	2	X	
CE-MW-34R3052218	5/22/18	15:06	GW	2	X	
CE-MW-32R2_052218	5/22/18	17:16	GW	2	X	
CE-MW-31R2_052318	5/23/18	14:26	GW	2	X	
CE-MW-29R5_052318	5/23/18	16:31	GW	2	X	
CE-MW-28R5_052318	5/23/18	18:26	GW	2	X	
CE-MW-28R5A_052318	5/23/18	18:35	GW	2	X	

Preservation Used: (1 = ICE) 2 = HCl, 3 = H_2SO_4, 4 = HNO_3, 5 = NaOH 6 = Other _____, 7 = Other _____ Soil: Water:

180-78164 Chain of Custody

Special Instructions Category B Deliverables

Water Metals Filtered (Yes/No)? _____

Relinquished by	Company	Date / Time	Received by	Company
	AKRF	5/24/18 K:39	1)	TAEDI
Relinquished by 2)	Company TA EDI	Date / Time 5/24/18 1905	Received by 2)	Company TAEDI
Relinquished by 3)	Company TAEDI	Date / Time 5/25/18 1800	Received by 3)	Company TA Pitt 5-26-18 9:30
Relinquished by 4)	Company	Date / Time	Received by 4)	Company

Laboratory Certifications: New Jersey (12028), New York (11452), Pennsylvania (68-522), Connecticut (PH-0200), Rhode Island (132). Massachusetts (M-NJ312), North Carolina (No. 578)

TAL - 0016 (0715)

777 New Durham Road
Edison, New Jersey 08817
Phone: (732) 549-3900 Fax: (732) 549-3679

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

CHAIN OF CUSTODY / ANALYSIS REQUEST

Name (for report and invoice) Neoma Chefalo / Steve Gorevi	Samplers Name (Printed) Christopher Rupp	Site/Project Identification CE Flushing 40-22 College Point Blvd, Queens, NY
Company AKRF, Inc.	P. O. # 30141	State (Location of site): NJ: ☐ NY: ☒ Other:
		Regulatory Program: DKQP: ☐
Address 440 Park Avenue South, 7th Floor	Analysis Turnaround Time: Standard ☒	
City New York State NY	Rush Charges Authorized For: 2 Week ☐ 1 Week ☐ Other ☐	
Phone 646-388-9854 Fax		

Sample Identification	Date	Time	Matrix	No. of Cont.	Total PCBs 8082										LAB USE ONLY Sample Numbers
CE-EB-73_052318	5/23/18	16:00	W	2	X										

Preservation Used: 1 = ICE, 2 = HCl, 3 = H_2SO_4, 4 = HNO_3, 5 = NaOH 6 = Other _____, 7 = Other _____ Soil: Water:

Special Instructions Category B deliverables

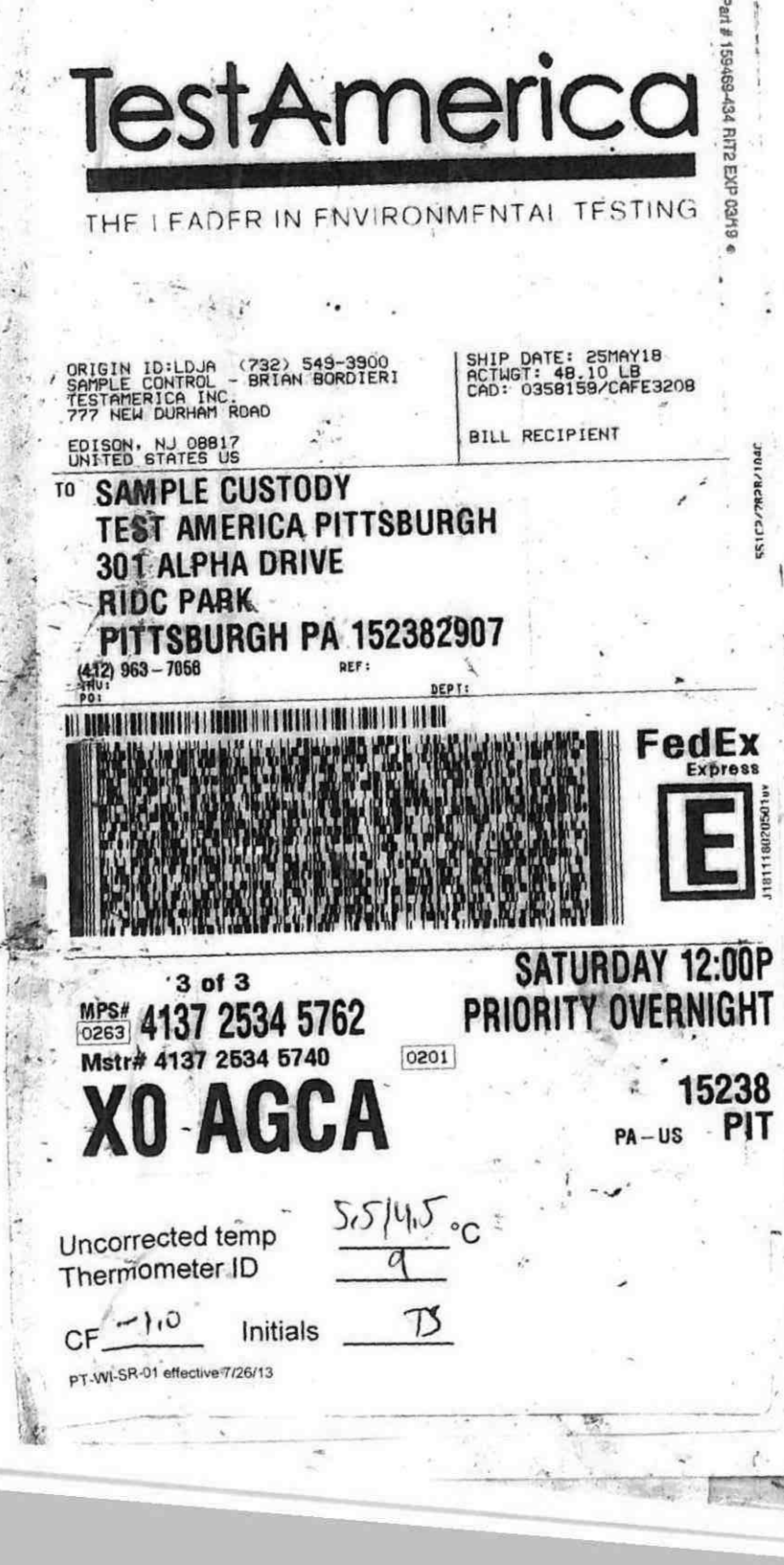
Water Metals Filtered (Yes/No)? _____

Relinquished by	Company AKRF	Date / Time 5/24/18 15:30	Received by 1)	Company TAEDI
Relinquished by 2)	Company TAEDI	Date / Time 5/24/18 1905	Received by 2)	Company TAEDI
Relinquished by 3)	Company TAEDI	Date / Time 5/25/18 1800	Received by 3)	Company TA PITT 5-26-18 9:30
Relinquished by 4)	Company	Date / Time	Received by 4)	Company

Laboratory Certifications: New Jersey (12028), New York (11452), Pennsylvania (68-522), Connecticut (PH-0200), Rhode Island (132).
Massachusetts (M-NJ312), North Carolina (No. 578)

TAL - 0016 (0715)

THE LEAD
IN ENVIRONMENTAL TESTING
180-78164 Waybill
ORIGIN ID:LDJA (732) 549-3900
SAMPLE CONTROL - BRIAN BORDIERI
TESTAMERICA INC.
777 NEW DURHAM ROAD
EDISON, NJ 08817
UNITED STATES US
SHIP DATE: 25MAY18
ACTWGT: 45.90 LB
CAD: 0358159/CAFE3208
BILL RECIPIENT
TO SAMPLE CUSTODY
TEST AMERICA PITTSBURGH
301 ALPHA DRIVE
RIDC PARK
PITTSBURGH PA 152382907
(412) 963-7058
REF:
DEPT:
FedEx Express
1 of 3
4137 2534 5740
SATURDAY 12:00P
PRIORITY OVERNIGHT
AGCA
15238
PA-US PIT
Corrected temp 4.6/3.6 °C
Thermometer ID 9
Initials JB
Effective 7/26/13
RT 639
ST 4
5
12:00
A
5740
05.26
SHIP DATE: 25MAY18
ACTWGT: 48.20 LB
CAD: 0358159/CAFE3208
BILL RECIPIENT
SAMPLE CUSTODY
TEST AMERICA PITTSBURGH
301 ALPHA DRIVE
PITTSBURGH PA 152382907
RT 639
ST 4
5
12:00
A
5751
05.26
FedEx Express
SATURDAY 12:00P
PRIORITY OVERNIGHT
15238
PA-US PIT
XO AGCA
Temp 4.6/3.6 °C
Initials JB
SR-001
Effective 7/26/13



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Part # 159469-434 RIT2 EXP 03/19

ORIGIN ID:LDJA (732) 549-3900
SAMPLE CONTROL - BRIAN BORDIERI
TESTAMERICA INC.
777 NEW DURHAM ROAD

EDISON, NJ 08817
UNITED STATES US

SHIP DATE: 25MAY18
ACTWGT: 48.10 LB
CAD: 0358159/CAFE3208

BILL RECIPIENT

TO SAMPLE CUSTODY
TEST AMERICA PITTSBURGH
301 ALPHA DRIVE
RIDC PARK
PITTSBURGH PA 152382907

(412) 963-7058

REF:

DEPT:

FedEx Express

3 of 3

MPS# 0263 4137 2534 5762

Mstr# 4137 2534 5740 0201

SATURDAY 12:00P
PRIORITY OVERNIGHT

XO AGCA

15238
PA-US PIT

Uncorrected temp 5.5/4.5 °C

Thermometer ID 9

CF -1.0 Initials TS

PT-WI-SR-01 effective 7/26/13

Login Sample Receipt Checklist

Client: AKRF Inc

Job Number: 180-78164-1

Login Number: 78164
List Number: 1
Creator: Watson, Debbie

List Source: TestAmerica Pittsburgh

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 180-78460-1

Job Description: 30141-0116 CE Flushing Industrial Park

For:
AKRF Inc
440 Park Avenue South
7th Floor
New York, NY 10016

Attention: Ms. Neoma Chefalo

Approved for release.
Thomas A Chupela
Project Management Assistant I
6/14/2018 11:18 AM

Designee for
Melissa Haas, Project Manager I
777 New Durham Road, Edison, NJ, 08817
(203)944-1310
melissa.haas@testamericainc.com
06/14/2018

The test results in this report meet all NELAP requirements unless specified within the case narrative. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. All questions regarding this report should be directed to the TestAmerica Edison Project Manager.

TestAmerica Edison Certifications and Approvals: Connecticut: CTDOH #PH-0200, New Jersey: NJDEP (NELAP) #12028, New York: NYDOH (NELAP) #11452, NYDOH (ELAP) #11452, Pennsylvania: PADEP (NELAP) 68-00522 and Rhode Island: RIDOH LAO00132

Job Number: 180-78460-1

Job Description: 30141-0116 CE Flushing Industrial Park

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed within the body of this report. Release of the data contained in this sample data package and in the electronic data deliverable has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Approved for release.
Thomas A Chupela
Project Management Assistant I
6/14/2018 11:18 AM

Designee for
Melissa Haas

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CASE NARRATIVE

Client: AKRF Inc

Project: 30141-0116 CE Flushing Industrial Park

Report Number: 180-78460-1

This case narrative is in the form of an exception report, where only the anomalies related to this report, method specific performance and/or QA/QC issues are discussed. If there are no issues to report, this narrative will include a statement that documents that there are no relevant data issues.

It should be noted that samples with elevated Reporting Limits (RLs) as a result of a dilution may not be able to satisfy customer reporting limits in some cases. Such increases in the RLs are unavoidable but acceptable consequence of sample dilution that enables quantification of target analytes or interferences which exceed the calibration range of the instrument.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT
The sample was received on 6/7/2018 9:15 AM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.9º C.

Note: All samples which require thermal preservation are considered acceptable if the arrival temperature is within 2C of the required temperature or method specified range. For samples with a specified temperature of 4C, samples with a temperature ranging from just above freezing temperature of water to 6C shall be acceptable. Samples that are hand delivered immediately following collection may not meet these criteria, however they will be deemed acceptable according to NELAC standards, if there is evidence that the chilling process has begun, such as arrival on ice, etc.

POLYCHLORINATED BIPHENYLS (PCBS)
Sample CE-MW-38R2_060418 (180-78460-1) was analyzed for polychlorinated biphenyls (PCBs) in accordance with EPA SW-846 Method 8082A. The samples were prepared on 06/11/2018 and analyzed on 06/12/2018.

The continuing calibration verification (CCV) associated with batch 247265 recovered above the upper control limit for 1016, 1248. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Refer to the QC report for details

No difficulties were encountered during the PCBs analysis.

All quality control parameters were within the acceptance limits.

Sample Summary

Client: AKRF Inc
Project/Site: 30141-0116 CE Flushing Industrial Park

TestAmerica Job ID: 180-78460-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-78460-1	CE-MW-38R2_060418	Water	06/04/18 14:51	06/07/18 09:15

Detection Summary

Client: AKRF Inc
Project/Site: 30141-0116 CE Flushing Industrial Park

TestAmerica Job ID: 180-78460-1

Client Sample ID: CE-MW-38R2_060418

Lab Sample ID: 180-78460-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arochlor 1260	0.012		0.011	0.0043	ug/L	1		8082A	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: AKRF Inc
Project/Site: 30141-0116 CE Flushing Industrial Park

TestAmerica Job ID: 180-78460-1

Method	Method Description	Protocol	Laboratory
8082A	Polychlorinated Biphenyls (PCBs) (GC)	SW846	TAL PIT
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL PIT

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Method: 8082A - Polychlorinated Biphenyls (PCBs) (GC)

Client Sample ID: CE-MW-38R2_060418
Lab Sample ID: 180-78460-1
Date Collected: 06/04/18 14:51
Matrix: Water
Date Received: 06/07/18 09:15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arochlor 1016	0.0052	U	0.011	0.0052	ug/L		06/11/18 14:00	06/12/18 20:54	1
Arochlor 1221	0.0062	U	0.011	0.0062	ug/L		06/11/18 14:00	06/12/18 20:54	1
Arochlor 1232	0.0057	U	0.011	0.0057	ug/L		06/11/18 14:00	06/12/18 20:54	1
Arochlor 1242	0.0099	U	0.011	0.0099	ug/L		06/11/18 14:00	06/12/18 20:54	1
Arochlor 1248	0.0033	U	0.011	0.0033	ug/L		06/11/18 14:00	06/12/18 20:54	1
Arochlor 1254	0.010	U	0.011	0.010	ug/L		06/11/18 14:00	06/12/18 20:54	1
Arochlor 1260	**0.012**		0.011	0.0043	ug/L		06/11/18 14:00	06/12/18 20:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*77*	*	*46 - 126*	*06/11/18 14:00*	*06/12/18 20:54*	*1*
DCB Decachlorobiphenyl (Surr)	*83*		*46 - 126*	*06/11/18 14:00*	*06/12/18 20:54*	*1*
Tetrachloro-m-xylene	*57*		*36 - 130*	*06/11/18 14:00*	*06/12/18 20:54*	*1*
Tetrachloro-m-xylene	*52*		*36 - 130*	*06/11/18 14:00*	*06/12/18 20:54*	*1*

Surrogate Summary

Client: AKRF Inc
Project/Site: 30141-0116 CE Flushing Industrial Park

TestAmerica Job ID: 180-78460-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) (GC)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		DCB1	DCB2	TCX1	TCX2
Lab Sample ID	Client Sample ID	(46-126)	(46-126)	(36-130)	(36-130)
180-78460-1	CE-MW-38R2_060418	77 *	83	57	52
LCS 180-247238/2-A	Lab Control Sample	84	85	70	64
LCSD 180-247238/3-A	Lab Control Sample Dup	77	81	60	54
MB 180-247238/1-A	Method Blank	73	78	64	57

Surrogate Legend

DCB = DCB Decachlorobiphenyl (Surr)

TCX = Tetrachloro-m-xylene

Method: 8082A - Polychlorinated Biphenyls (PCBs) (GC)

Lab Sample ID: MB 180-247238/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 247265 — **Prep Batch: 247238**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arochlor 1016	0.0048	U	0.010	0.0048	ug/L		06/11/18 14:00	06/12/18 19:50	1
Arochlor 1221	0.0057	U	0.010	0.0057	ug/L		06/11/18 14:00	06/12/18 19:50	1
Arochlor 1232	0.0052	U	0.010	0.0052	ug/L		06/11/18 14:00	06/12/18 19:50	1
Arochlor 1242	0.0091	U	0.010	0.0091	ug/L		06/11/18 14:00	06/12/18 19:50	1
Arochlor 1248	0.0030	U	0.010	0.0030	ug/L		06/11/18 14:00	06/12/18 19:50	1
Arochlor 1254	0.0095	U	0.010	0.0095	ug/L		06/11/18 14:00	06/12/18 19:50	1
Arochlor 1260	0.0039	U	0.010	0.0039	ug/L		06/11/18 14:00	06/12/18 19:50	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*73*		*46 - 126*	*06/11/18 14:00*	*06/12/18 19:50*	*1*
DCB Decachlorobiphenyl (Surr)	*78*		*46 - 126*	*06/11/18 14:00*	*06/12/18 19:50*	*1*
Tetrachloro-m-xylene	*64*		*36 - 130*	*06/11/18 14:00*	*06/12/18 19:50*	*1*
Tetrachloro-m-xylene	*57*		*36 - 130*	*06/11/18 14:00*	*06/12/18 19:50*	*1*

Lab Sample ID: LCS 180-247238/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 247265 — **Prep Batch: 247238**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Arochlor 1016			1.00	0.682		ug/L		68	47 - 111		
Arochlor 1260			1.00	0.658		ug/L		66	42 - 112		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*84*		*46 - 126*
DCB Decachlorobiphenyl (Surr)	*85*		*46 - 126*
Tetrachloro-m-xylene	*70*		*36 - 130*
Tetrachloro-m-xylene	*64*		*36 - 130*

Lab Sample ID: LCSD 180-247238/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 247265 — **Prep Batch: 247238**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arochlor 1016			1.00	0.618		ug/L		62	47 - 111	10	25
Arochlor 1260			1.00	0.596		ug/L		60	42 - 112	10	26

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*77*		*46 - 126*
DCB Decachlorobiphenyl (Surr)	*81*		*46 - 126*
Tetrachloro-m-xylene	*60*		*36 - 130*
Tetrachloro-m-xylene	*54*		*36 - 130*

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
U	Analyzed for but not detected.
*	ISTD response or retention time outside acceptable limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

QC Association Summary

Client: AKRF Inc
Project/Site: 30141-0116 CE Flushing Industrial Park

TestAmerica Job ID: 180-78460-1

GC Semi VOA

Prep Batch: 247238

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-78460-1	CE-MW-38R2_060418	Total/NA	Water	3510C	
MB 180-247238/1-A	Method Blank	Total/NA	Water	3510C	
LCS 180-247238/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 180-247238/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 247265

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-78460-1	CE-MW-38R2_060418	Total/NA	Water	8082A	247238
MB 180-247238/1-A	Method Blank	Total/NA	Water	8082A	247238
LCS 180-247238/2-A	Lab Control Sample	Total/NA	Water	8082A	247238
LCSD 180-247238/3-A	Lab Control Sample Dup	Total/NA	Water	8082A	247238

Lab Chronicle

Client: AKRF Inc
Project/Site: 30141-0116 CE Flushing Industrial Park

TestAmerica Job ID: 180-78460-1

Client Sample ID: CE-MW-38R2_060418

Date Collected: 06/04/18 14:51
Date Received: 06/07/18 09:15

Lab Sample ID: 180-78460-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			920 mL	1.0 mL	247238	06/11/18 14:00	BJT	TAL PIT
Total/NA	Analysis	8082A		1			247265	06/12/18 20:54	JMO	TAL PIT
	Instrument ID: CHGC16									

Laboratory References:

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Analyst References:

Lab: TAL PIT

Batch Type: Prep

BJT = Bill Trout

Batch Type: Analysis

JMO = John Oravec

Accreditation/Certification Summary

Client: AKRF Inc
TestAmerica Job ID: 180-78460-1
Project/Site: 30141-0116 CE Flushing Industrial Park

Laboratory: TestAmerica Pittsburgh

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Arkansas DEQ	State Program	6	88-0690	06-27-18
California	State Program	9	2891	04-30-19
Connecticut	State Program	1	PH-0688	09-30-18
Florida	NELAP	4	E871008	06-30-18
Illinois	NELAP	5	200005	06-30-18
Kansas	NELAP	7	E-10350	01-31-19
Louisiana	NELAP	6	04041	06-30-18
Nevada	State Program	9	PA00164	07-31-18
New Hampshire	NELAP	1	2030	04-04-19
New Jersey	NELAP	2	PA005	06-30-18
New York	NELAP	2	11182	03-31-19
North Carolina (WW/SW)	State Program	4	434	12-31-18
Oregon	NELAP Secondary AB	10	PA-2151	01-28-19
Pennsylvania	NELAP	3	02-00416	04-30-19
South Carolina	State Program	4	89014	04-30-18 *
Texas	NELAP	6	T104704528-15-2	03-31-19
US Fish & Wildlife	Federal		LE94312A-1	07-31-18
USDA	Federal		P330-16-00211	06-26-19
Utah	NELAP	8	PA001462015-4	05-31-18 *
Virginia	NELAP	3	460189	09-14-18
West Virginia DEP	State Program	3	142	01-31-19
Wisconsin	State Program	5	998027800	08-31-18

Laboratory: TestAmerica Edison

The accreditations/certifications listed below are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	11452	04-01-19

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Method 8082A Low Level

Polychlorinated Biphenyls (PCBs) (GC) by Method 8082A Low Level

FORM II
PCBS SURROGATE RECOVERY

Lab Name: TestAmerica Pittsburgh Job No.: 180-78460-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): RTX-CLP1 ID: 0.53(mm) GC Column (2): RTX-CLP2 ID: 0.53(mm)

Client Sample ID	Lab Sample ID	TCX1 #	TCX2 #	DCB1 #	DCB2 #
CE-MW-38R2_060418	180-78460-1	57	52	77 *	83
	MB 180-247238/1-A	64	57	73	78
	LCS 180-247238/2-A	70	64	84	85
	LCSD 180-247238/3-A	60	54	77	81

	QC LIMITS
TCX = Tetrachloro-m-xylene	36-130
DCB = DCB Decachlorobiphenyl (Surr)	46-126

Column to be used to flag recovery values

FORM II 8082A

FORM III
PCBS LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Pittsburgh Job No.: 180-78460-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 06128040.D

Lab ID: LCS 180-247238/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Arochlor 1016	1.00	0.682	68	47-111	
Arochlor 1260	1.00	0.658	66	42-112	

Column to be used to flag recovery and RPD values

FORM III 8082A

FORM III
PCBS LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Pittsburgh Job No.: 180-78460-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 06128041.D

Lab ID: LCSD 180-247238/3-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Arochlor 1016	1.00	0.618	62	10	25	47-111	
Arochlor 1260	1.00	0.596	60	10	26	42-112	

Column to be used to flag recovery and RPD values

FORM III 8082A

FORM IV
PCBS METHOD BLANK SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-78460-1

SDG No.:

Lab Sample ID: MB 180-247238/1-A

Matrix: Water Date Extracted: 06/11/2018 14:00

Lab File ID:(1) 06128039.D Lab File ID:(2) 06128039.D

Date Analyzed:(1) 06/12/2018 19:50 Date Analyzed:(2) 06/12/2018 19:50

Instrument ID:(1) CHGC16 Instrument ID:(2) CHGC16

GC Column:(1) RTX-CLP1 ID: 0.53(mm) GC Column:(2) RTX-CLP2 ID: 0.53(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
	LCS 180-247238/2-A	06/12/2018 20:12	06/12/2018 20:12
	LCSD 180-247238/3-A	06/12/2018 20:33	06/12/2018 20:33
CE-MW-38R2_060418	180-78460-1	06/12/2018 20:54	06/12/2018 20:54

FORM VIII
PCBS INTERNAL STANDARD HEIGHT AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-78460-1

SDG No.:

Sample No.: CCVIS 180-247265/26 Date Analyzed: 06/12/2018 16:39

Instrument ID: CHGC16 GC Column: RTX-CLP1 ID: 0.53(mm)

Lab File ID (Standard): 06128030.D Heated Purge: (Y/N) N

Calibration ID: 37553

		BNB		PCB205			
		HEIGHT #	RT #	HEIGHT #	RT #	HEIGHT #	RT #
12/24 HOUR STD		305695827	2.73	191992683	10.85		
UPPER LIMIT		458543741	2.76	287989025	10.88		
LOWER LIMIT		152847914	2.70	95996342	10.82		
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 180-247238/1-A		341403007	2.73	265091449	10.85		
LCS 180-247238/2-A		358252412	2.73	267128762	10.85		
LCSD 180-247238/3-A		366766781	2.73	277770131	10.85		
180-78460-1	CE-MW-38R2_060418	368926314	2.73	293143238*	10.85		

BNB = 1-Bromo-2-nitrobenzene
PCB205 = PCB-205 (IS)

Area Limit = 50%-150% of internal standard area
RT Limit = ± 0.03 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8082A

FORM VIII
PCBS INTERNAL STANDARD HEIGHT AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-78460-1

SDG No.:

Sample No.: CCVIS 180-247265/26 Date Analyzed: 06/12/2018 16:39

Instrument ID: CHGC16 GC Column: RTX-CLP2 ID: 0.53(mm)

Lab File ID (Standard): 06128030.D Heated Purge: (Y/N) N

Calibration ID: 37554

		BNB		PCB205			
		HEIGHT #	RT #	HEIGHT #	RT #	HEIGHT #	RT #
12/24 HOUR STD		386868859	2.95	194931004	12.25		
UPPER LIMIT		580303289	2.98	292396506	12.28		
LOWER LIMIT		193434430	2.92	97465502	12.22		
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 180-247238/1-A		452463784	2.95	262276770	12.25		
LCS 180-247238/2-A		456255687	2.95	267430546	12.25		
LCSD 180-247238/3-A		476213318	2.95	277335671	12.25		
180-78460-1	CE-MW-38R2_060418	479433931	2.95	278867203	12.25		

BNB = 1-Bromo-2-nitrobenzene
PCB205 = PCB-205 (IS)

Area Limit = 50%-150% of internal standard area
RT Limit = ± 0.03 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8082A

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-78460-1

SDG No.:

Client Sample ID: CE-MW-38R2_060418 Lab Sample ID: 180-78460-1

Instrument ID (1): CHGC16 Instrument ID (2): CHGC16

Date Analyzed (1): 06/12/2018 20:54 Date Analyzed (2): 06/12/2018 20:54

GC Column (1): RTX-CLP1 ID: 0.53(mm) GC Column (2): RTX-CLP2 ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
Arochlor 1260	1	1	7.05	7.03	7.07	0.0133	0.011	2.7
		2	8.12	8.10	8.14	0.00935		
		3	8.80	8.77	8.81	0.00976		
		4	9.34	9.32	9.36	0.0111		
		5	9.81	9.78	9.82	0.0127		
	2	1	8.91	8.89	8.93	0.0128	0.012	
		2	9.90	9.88	9.92	0.0134		
		3	10.51	10.49	10.53	0.00820		
		4	10.89	10.87	10.91	0.00994		
		5	11.41	11.40	11.44	0.0133		

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-78460-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 180-247238/2-A

Instrument ID (1): CHGC16 Instrument ID (2): CHGC16

Date Analyzed (1): 06/12/2018 20:12 Date Analyzed (2): 06/12/2018 20:12

GC Column (1): RTX-CLP1 ID: 0.53(mm) GC Column (2): RTX-CLP2 ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
Arochlor 1016	1	1	3.66	3.64	3.68	0.667	0.682	8.3
		2	4.01	3.98	4.02	0.640		
		3	4.67	4.64	4.68	0.679		
		4	5.17	5.15	5.19	0.691		
		5	5.29	5.26	5.30	0.732		
	2	1	4.87	4.84	4.88	0.601	0.627	
		2	5.21	5.19	5.23	0.647		
		3	5.89	5.87	5.91	0.614		
		4	6.49	6.46	6.50	0.611		
		5	6.70	6.68	6.72	0.662		
Arochlor 1260	1	1	7.05	7.03	7.07	0.611	0.658	14.2
		2	8.12	8.10	8.14	0.688		
		3	8.80	8.77	8.81	0.633		
		4	9.35	9.32	9.36	0.669		
		5	9.81	9.78	9.82	0.690		
	2	1	8.91	8.89	8.93	0.531	0.571	
		2	9.90	9.88	9.92	0.611		
		3	10.51	10.49	10.53	0.532		
		4	10.89	10.87	10.91	0.600		
		5	11.42	11.40	11.44	0.580		

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-78460-1

SDG No.:

Client Sample ID: Lab Sample ID: LCSD 180-247238/3-A

Instrument ID (1): CHGC16 Instrument ID (2): CHGC16

Date Analyzed (1): 06/12/2018 20:33 Date Analyzed (2): 06/12/2018 20:33

GC Column (1): RTX-CLP1 ID: 0.53(mm) GC Column (2): RTX-CLP2 ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
Arochlor 1016	1	1	3.66	3.64	3.68	0.607	0.618	8.9
		2	4.01	3.98	4.02	0.561		
		3	4.67	4.64	4.68	0.615		
		4	5.17	5.15	5.19	0.634		
		5	5.29	5.26	5.30	0.675		
	2	1	4.87	4.84	4.88	0.543	0.566	
		2	5.21	5.19	5.23	0.584		
		3	5.89	5.87	5.91	0.550		
		4	6.49	6.46	6.50	0.547		
		5	6.70	6.68	6.72	0.606		
Arochlor 1260	1	1	7.05	7.03	7.07	0.563	0.596	10.4
		2	8.12	8.10	8.14	0.621		
		3	8.80	8.77	8.81	0.562		
		4	9.34	9.32	9.36	0.605		
		5	9.81	9.78	9.82	0.630		
	2	1	8.91	8.89	8.93	0.498	0.537	
		2	9.90	9.88	9.92	0.561		
		3	10.51	10.49	10.53	0.512		
		4	10.89	10.87	10.91	0.561		
		5	11.42	11.40	11.44	0.554		

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-78460-1

SDG No.:

Client Sample ID: CE-MW-38R2_060418 | Lab Sample ID: 180-78460-1

Matrix: Water | Lab File ID: 06128042.D

Analysis Method: 8082A | Date Collected: 06/04/2018 14:51

Extraction Method: 3510C | Date Extracted: 06/11/2018 14:00

Sample wt/vol: 920(mL) | Date Analyzed: 06/12/2018 20:54

Con. Extract Vol.: 1.0(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RTX-CLP1 ID: 0.53(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 247265 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	Arochlor 1016	0.0052	U	0.011	0.0052
11104-28-2	Arochlor 1221	0.0062	U	0.011	0.0062
11141-16-5	Arochlor 1232	0.0057	U	0.011	0.0057
53469-21-9	Arochlor 1242	0.0099	U	0.011	0.0099
12672-29-6	Arochlor 1248	0.0033	U	0.011	0.0033

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl (Surr)	77	*	46-126
877-09-8	Tetrachloro-m-xylene	57		36-130

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC16\20180612-22163.b\06128042.D
Lims ID: 180-78460-A-1-A
Client ID: CE-MW-38R2_060418
Sample Type: Client
Inject. Date: 12-Jun-2018 20:54:26 ALS Bottle#: 38 Worklist Smp#: 38
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0022163-038
Operator ID: 402331 Instrument ID: CHGC16

Method: \\ChromNA\Pittsburgh\ChromData\CHGC16\20180612-22163.b\PCB_CHGC16.m
Limit Group: GCS 8082A ICAL with IS
Last Update: 13-Jun-2018 12:19:16 Calib Date: 23-Mar-2018 13:43:53
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHGC16\20180323-21018.b\03238015.D

Column 1 : Restek CLP 1 (0.53 mm) Det: GC ECD1A
Column 2 : Restek CLP2 (0.53 mm) Det: GC ECD2B
Process Host: XAWRK027

First Level Reviewer: oravecj Date: 13-Jun-2018 12:18:21

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng	Flags
* 1 1-Bromo-2-nitrobenzene						
1	2.729	2.727	0.002	368926314	H 0.1000	
2	2.953	2.952	0.001	479433931	H 0.1000	
4 PCB-1221						U
1		2.898			ND	
1		3.488				
1		3.662				
2		3.339				
2		4.120				
2		4.358				
$ 2 Tetrachloro-m-xylene						
1	3.347	3.344	0.003	205408357	H 0.0453	
2	3.818	3.816	0.002	216456135	H 0.0416	
					RPD = 8.56	
3 PCB-1232						
1		3.487			ND	
1		3.662				
1		4.003				
1		4.664				
1		5.172				
2		4.120				
2		4.358				
2		4.866				
2		5.725				
2		7.251				

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng	Flags
6	PCB-1016					
1		3.660			ND	
1		4.002				
1		4.662				
1		5.169				
1		5.284				
2		4.864				
2		5.209				
2		5.885				
2		6.484				
2		6.701				
5	PCB-1242					
1		3.662			ND	
1		4.005				
1		4.665				
1		5.173				
1		5.762				
2		4.357				
2		5.521				
2		6.486				
2		7.253				
2		7.705				
7	PCB-1248					U
1		4.001			ND	
1		4.882				
1		5.170				
1		5.760				
1		6.731				
2		4.865				
2		6.030				
2		6.485				
2		7.251				
2		7.704				
8	PCB-1254					U
1		6.090			ND	
1		6.736				
1		7.225				
1		7.568				
1		8.121				
2		7.244				
2		8.550				
2		8.974				
2		9.291				
2		9.901				

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng	Flags
9 PCB-1260						
1	7.051	7.047	0.004	1582016	H 0.0123	
1	8.120	8.118	0.002	1340212	H 0.008598	
1	8.795	8.793	0.002	948513	H 0.008977	
1	9.343	9.339	0.004	2524467	H 0.0102	
1	9.806	9.804	0.002	1580645	H 0.0116	
		Average of Peak Amounts =			0.0103	
2	8.913	8.911	0.002	1531238	H 0.0118	
2	9.898	9.897	0.001	1766525	H 0.0124	
2	10.511	10.509	0.002	852155	H 0.007548	
2	10.889	10.887	0.002	2283587	H 0.009148	
2	11.414	11.418	-0.004	1719066	H 0.0122	
		Average of Peak Amounts =			0.0106	
					RPD = 2.70	
* 16 PCB-205 (IS)						
1	10.847	10.849	-0.001	293143238	H 0.1000	
2	12.253	12.255	-0.001	278867203	H 0.1000	
$ 12 DCB Decachlorobiphenyl (Surr)						
1	11.445	11.442	0.003	151273115	H 0.0618	
2	12.967	12.967	0.000	134872717	H 0.0668	
					RPD = 7.81	

QC Flag Legend

Review Flags

U - Marked Undetected

Reagents:

PCBINT_00007 Amount Added: 0.01 Units: mL Run Reagent

Report Date: 13-Jun-2018 12:19:41 Chrom Revision: 2.2 11-May-2018 08:54:46

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC16\20180612-22163.b\06128042.D

Injection Date: 12-Jun-2018 20:54:26 Instrument ID: CHGC16

Lims ID: 180-78460-A-1-A Lab Sample ID: 180-78460-1

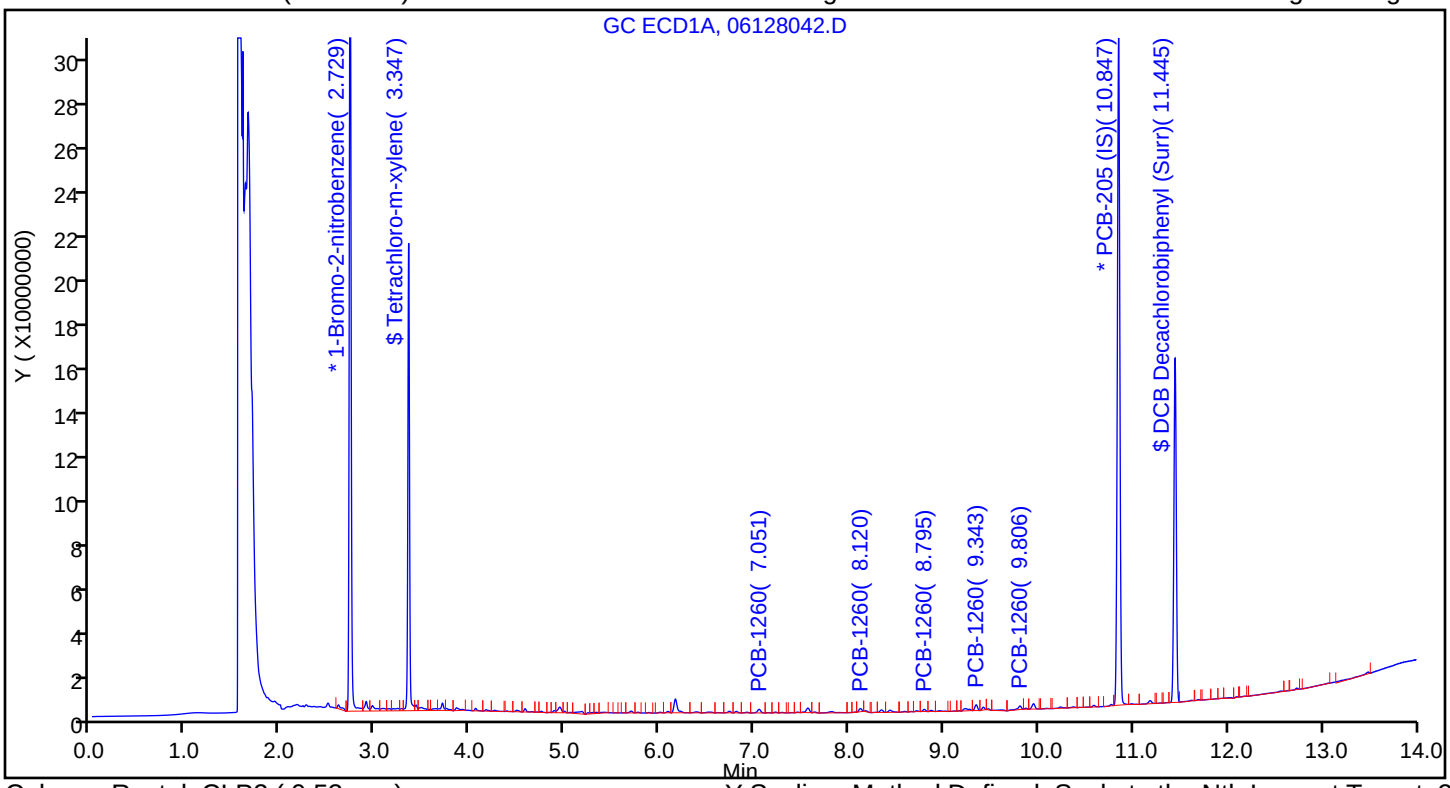
Client ID: CE-MW-38R2_060418

Operator ID: 402331 ALS Bottle#: 38 Worklist Smp#: 38

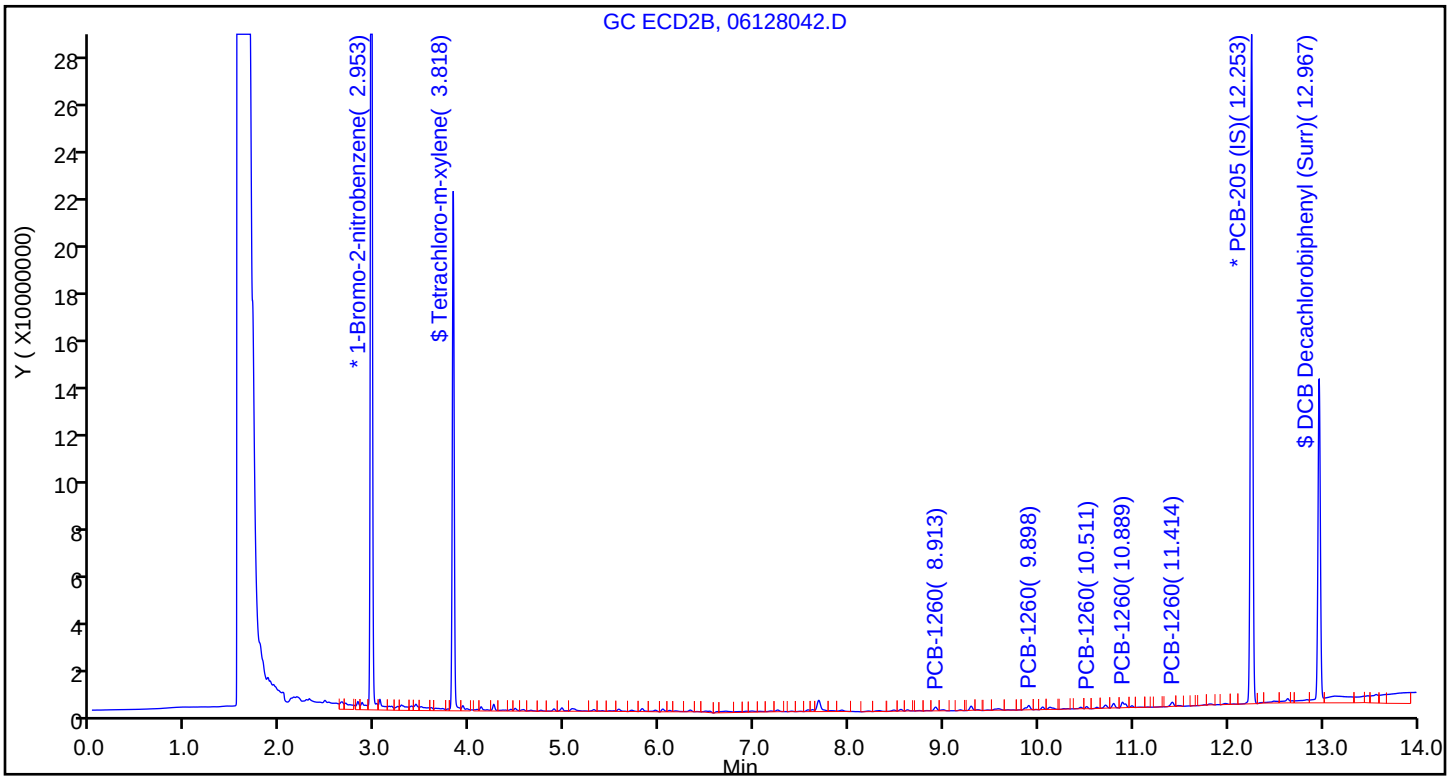
Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: PCB_CHGC16 Limit Group: GCS 8082A ICAL with IS

Column: Restek CLP 1 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Column: Restek CLP2 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



User Disabled Compound Report

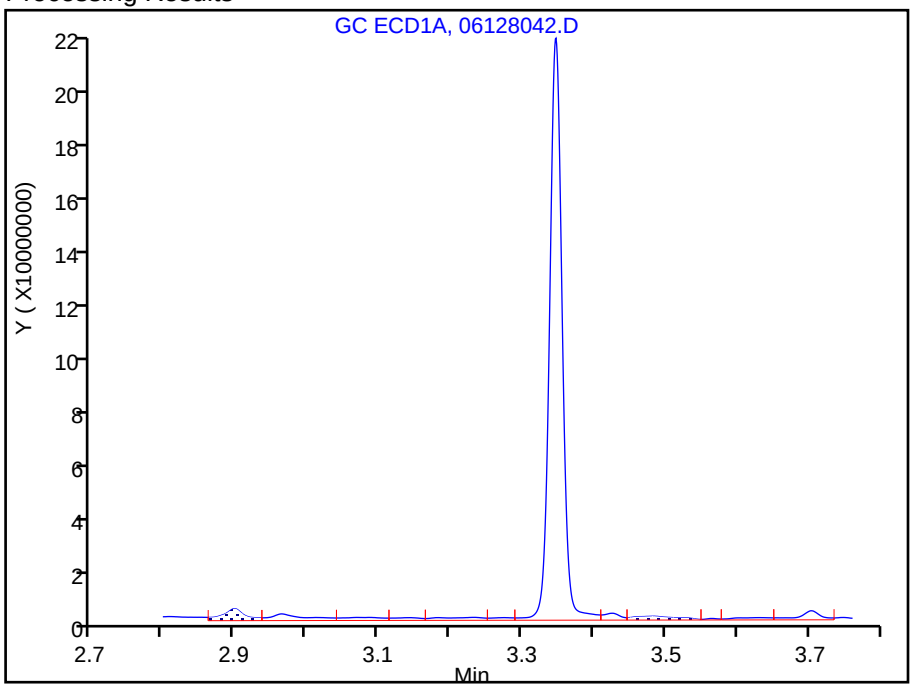
TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CHGC16\20180612-22163.b\06128042.D				
Injection Date:	12-Jun-2018 20:54:26	Instrument ID:	CHGC16		
Lims ID:	180-78460-A-1-A	Lab Sample ID:	180-78460-1		
Client ID:	CE-MW-38R2_060418				
Operator ID:	402331	ALS Bottle#:	38	Worklist Smp#:	38
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	PCB_CHGC16	Limit Group:	GCS 8082A ICAL with IS		

4 PCB-1221, Detector: 1, GC ECD1A

Processing Results

Exp RT	RT	Response	Amount
2.90	2.90	4221972	0.134301
3.49	3.48	1344789	0.029108
3.66			
		Average =	0.019177



Reviewer: oravecj, 13-Jun-2018 12:18:02

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

User Disabled Compound Report

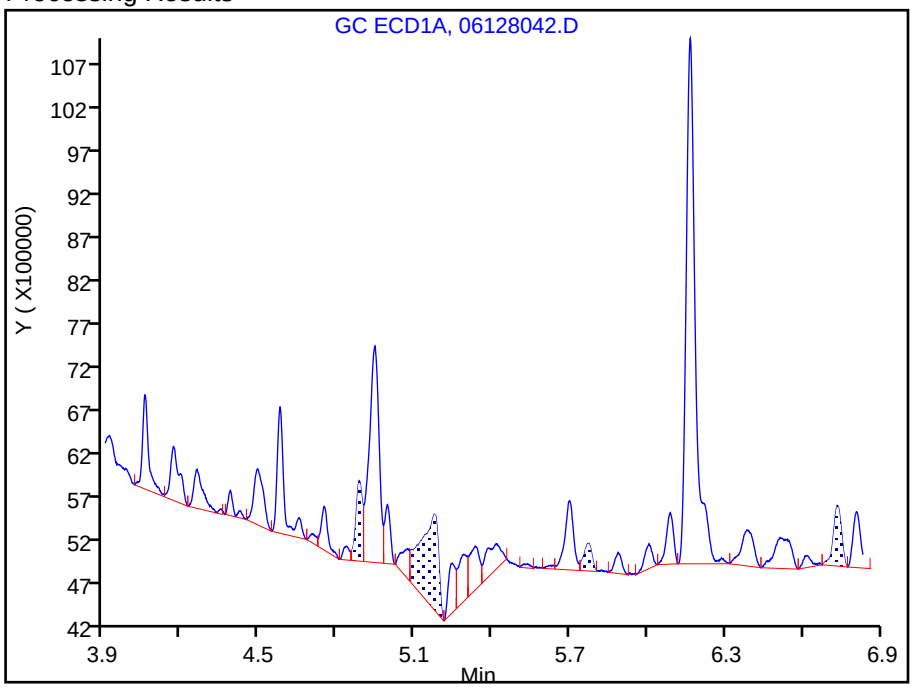
TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CHGC16\20180612-22163.b\06128042.D		
Injection Date:	12-Jun-2018 20:54:26	Instrument ID:	CHGC16
Lims ID:	180-78460-A-1-A	Lab Sample ID:	180-78460-1
Client ID:	CE-MW-38R2_060418		
Operator ID:	402331	ALS Bottle#:	38 Worklist Smp#: 38
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	PCB_CHGC16	Limit Group:	GCS 8082A ICAL with IS

7 PCB-1248, Detector: 1, GC ECD1A

Processing Results

Exp RT	RT	Response	Amount
4.00			
4.88	4.88	923663	0.011167
5.17	5.17	1096545	0.010666
5.76	5.77	316363	0.002922
6.73	6.73	695984	0.013992
		Average =	0.009687



Reviewer: oravecj, 13-Jun-2018 12:18:05

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

User Disabled Compound Report

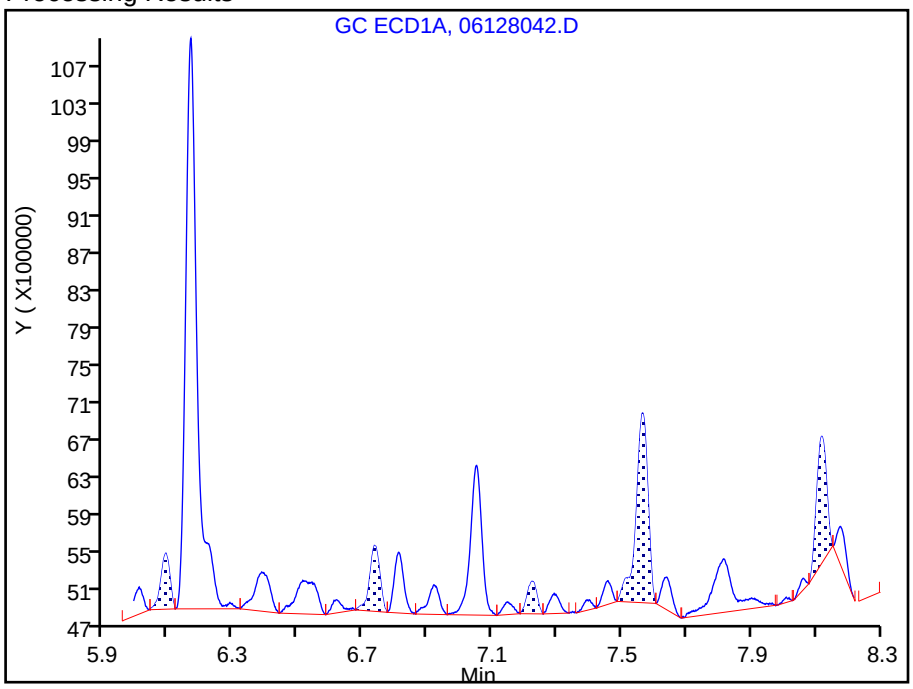
TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CHGC16\20180612-22163.b\06128042.D				
Injection Date:	12-Jun-2018 20:54:26	Instrument ID:	CHGC16		
Lims ID:	180-78460-A-1-A	Lab Sample ID:	180-78460-1		
Client ID:	CE-MW-38R2_060418				
Operator ID:	402331	ALS Bottle#:	38	Worklist Smp#:	38
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	PCB_CHGC16	Limit Group:	GCS 8082A ICAL with IS		

8 PCB-1254, Detector: 1, GC ECD1A

Processing Results

Exp RT	RT	Response	Amount
6.09	6.09	591084	0.004117
6.74	6.73	695984	0.003831
7.22	7.22	343603	0.002672
7.57	7.56	2005721	0.019550
8.12	8.12	1340212	0.010197
		Average =	0.008074



Reviewer: oravecj, 13-Jun-2018 12:18:10

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-78460-1

SDG No.:

Client Sample ID: CE-MW-38R2_060418 | Lab Sample ID: 180-78460-1

Matrix: Water | Lab File ID: 06128042.D

Analysis Method: 8082A | Date Collected: 06/04/2018 14:51

Extraction Method: 3510C | Date Extracted: 06/11/2018 14:00

Sample wt/vol: 920(mL) | Date Analyzed: 06/12/2018 20:54

Con. Extract Vol.: 1.0(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RTX-CLP2 ID: 0.53(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 247265 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
11097-69-1	Arochlor 1254	0.010	U	0.011	0.010
11096-82-5	Arochlor 1260	0.012		0.011	0.0043

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl (Surr)	83		46-126
877-09-8	Tetrachloro-m-xylene	52		36-130

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC16\20180612-22163.b\06128042.D
Lims ID: 180-78460-A-1-A
Client ID: CE-MW-38R2_060418
Sample Type: Client
Inject. Date: 12-Jun-2018 20:54:26 ALS Bottle#: 38 Worklist Smp#: 38
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0022163-038
Operator ID: 402331 Instrument ID: CHGC16

Method: \\ChromNA\Pittsburgh\ChromData\CHGC16\20180612-22163.b\PCB_CHGC16.m
Limit Group: GCS 8082A ICAL with IS
Last Update: 13-Jun-2018 12:19:16 Calib Date: 23-Mar-2018 13:43:53
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHGC16\20180323-21018.b\03238015.D

Column 1 : Restek CLP 1 (0.53 mm) Det: GC ECD1A
Column 2 : Restek CLP2 (0.53 mm) Det: GC ECD2B
Process Host: XAWRK027

First Level Reviewer: oravecj Date: 13-Jun-2018 12:18:21

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng	Flags
* 1 1-Bromo-2-nitrobenzene						
1	2.729	2.727	0.002	368926314	H 0.1000	
2	2.953	2.952	0.001	479433931	H 0.1000	
4 PCB-1221						U
1		2.898			ND	
1		3.488				
1		3.662				
2		3.339				
2		4.120				
2		4.358				
$ 2 Tetrachloro-m-xylene						
1	3.347	3.344	0.003	205408357	H 0.0453	
2	3.818	3.816	0.002	216456135	H 0.0416	
					RPD = 8.56	
3 PCB-1232						
1		3.487			ND	
1		3.662				
1		4.003				
1		4.664				
1		5.172				
2		4.120				
2		4.358				
2		4.866				
2		5.725				
2		7.251				

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng	Flags
6	PCB-1016					
1		3.660			ND	
1		4.002				
1		4.662				
1		5.169				
1		5.284				
2		4.864				
2		5.209				
2		5.885				
2		6.484				
2		6.701				
5	PCB-1242					
1		3.662			ND	
1		4.005				
1		4.665				
1		5.173				
1		5.762				
2		4.357				
2		5.521				
2		6.486				
2		7.253				
2		7.705				
7	PCB-1248					U
1		4.001			ND	
1		4.882				
1		5.170				
1		5.760				
1		6.731				
2		4.865				
2		6.030				
2		6.485				
2		7.251				
2		7.704				
8	PCB-1254					U
1		6.090			ND	
1		6.736				
1		7.225				
1		7.568				
1		8.121				
2		7.244				
2		8.550				
2		8.974				
2		9.291				
2		9.901				

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng	Flags
9 PCB-1260						
1	7.051	7.047	0.004	1582016	0.0123	H
1	8.120	8.118	0.002	1340212	0.008598	H
1	8.795	8.793	0.002	948513	0.008977	H
1	9.343	9.339	0.004	2524467	0.0102	H
1	9.806	9.804	0.002	1580645	0.0116	H
		Average of Peak Amounts =			0.0103	
2	8.913	8.911	0.002	1531238	0.0118	H
2	9.898	9.897	0.001	1766525	0.0124	H
2	10.511	10.509	0.002	852155	0.007548	H
2	10.889	10.887	0.002	2283587	0.009148	H
2	11.414	11.418	-0.004	1719066	0.0122	H
		Average of Peak Amounts =			0.0106	
					RPD = 2.70	
* 16 PCB-205 (IS)						
1	10.847	10.849	-0.001	293143238	0.1000	H
2	12.253	12.255	-0.001	278867203	0.1000	H
$ 12 DCB Decachlorobiphenyl (Surr)						
1	11.445	11.442	0.003	151273115	0.0618	H
2	12.967	12.967	0.000	134872717	0.0668	H
					RPD = 7.81	

QC Flag Legend

Review Flags

U - Marked Undetected

Reagents:

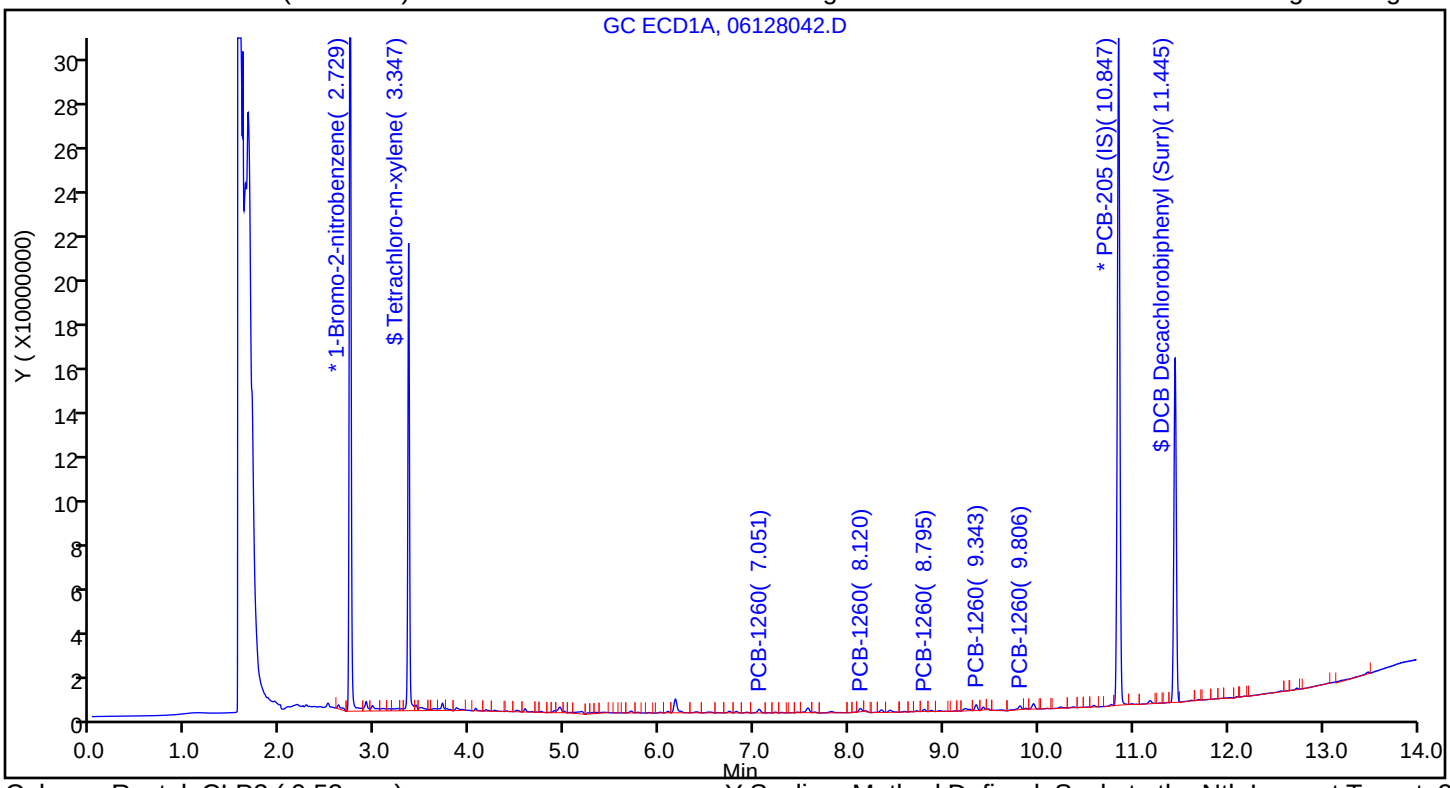
PCBINT_00007 Amount Added: 0.01 Units: mL Run Reagent

Report Date: 13-Jun-2018 12:19:42 Chrom Revision: 2.2 11-May-2018 08:54:46

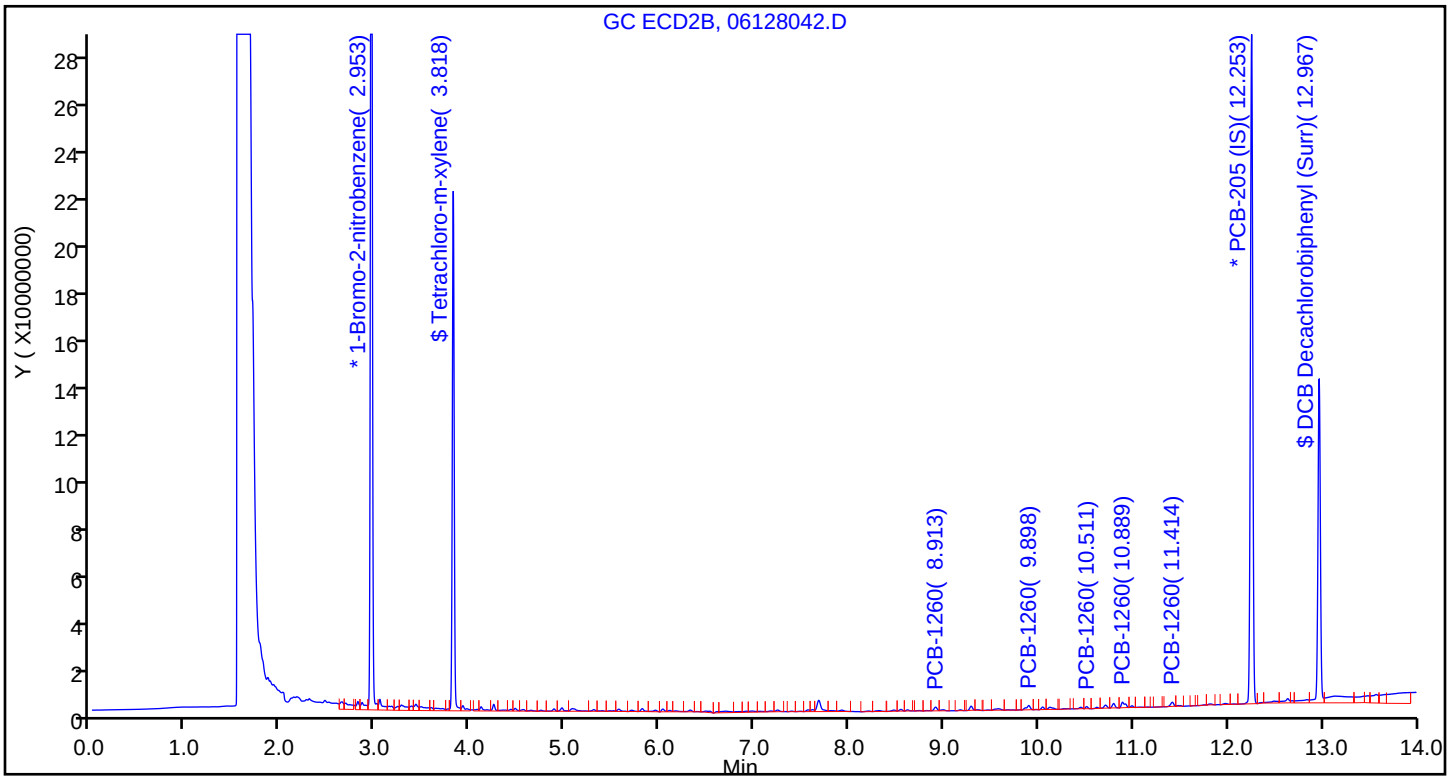
TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CHGC16\20180612-22163.b\06128042.D				
Injection Date:	12-Jun-2018 20:54:26	Instrument ID:	CHGC16		
Lims ID:	180-78460-A-1-A	Lab Sample ID:	180-78460-1		
Client ID:	CE-MW-38R2_060418				
Operator ID:	402331	ALS Bottle#:	38	Worklist Smp#:	38
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	PCB_CHGC16	Limit Group:	GCS 8082A ICAL with IS		

Column: Restek CLP 1 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Column: Restek CLP2 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



User Disabled Compound Report

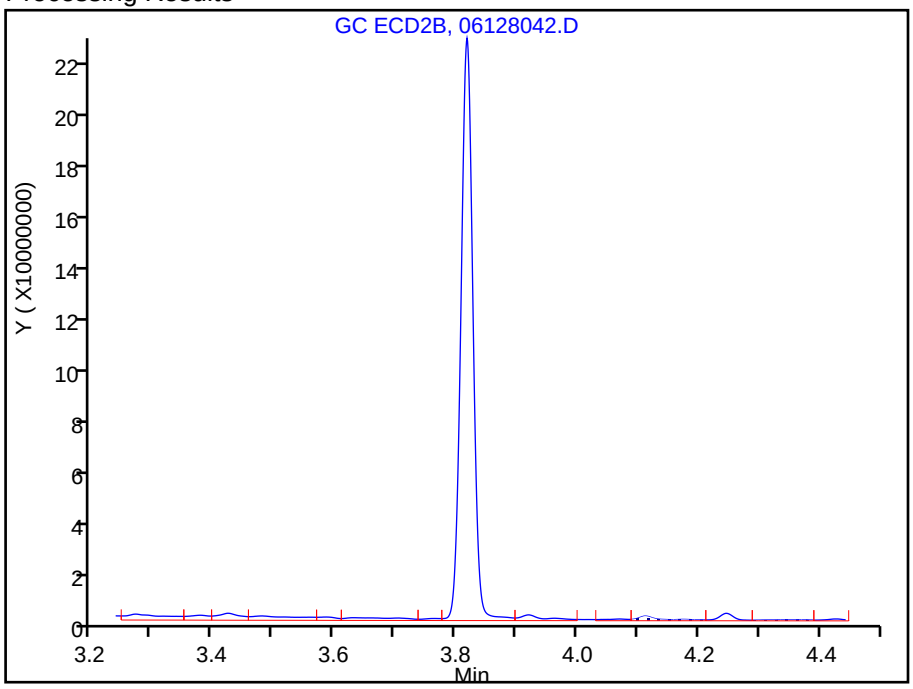
TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CHGC16\20180612-22163.b\06128042.D				
Injection Date:	12-Jun-2018 20:54:26	Instrument ID:	CHGC16		
Lims ID:	180-78460-A-1-A	Lab Sample ID:	180-78460-1		
Client ID:	CE-MW-38R2_060418				
Operator ID:	402331	ALS Bottle#:	38	Worklist Smp#:	38
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	PCB_CHGC16	Limit Group:	GCS 8082A ICAL with IS		

4 PCB-1221, Detector: 2, GC ECD2B

Processing Results

Exp RT	RT	Response	Amount
3.34			
4.12	4.11	1706846	0.034294
4.36	4.34	406331	0.004060
		Average =	0.019177



Reviewer: oravecj, 13-Jun-2018 12:18:02

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

User Disabled Compound Report

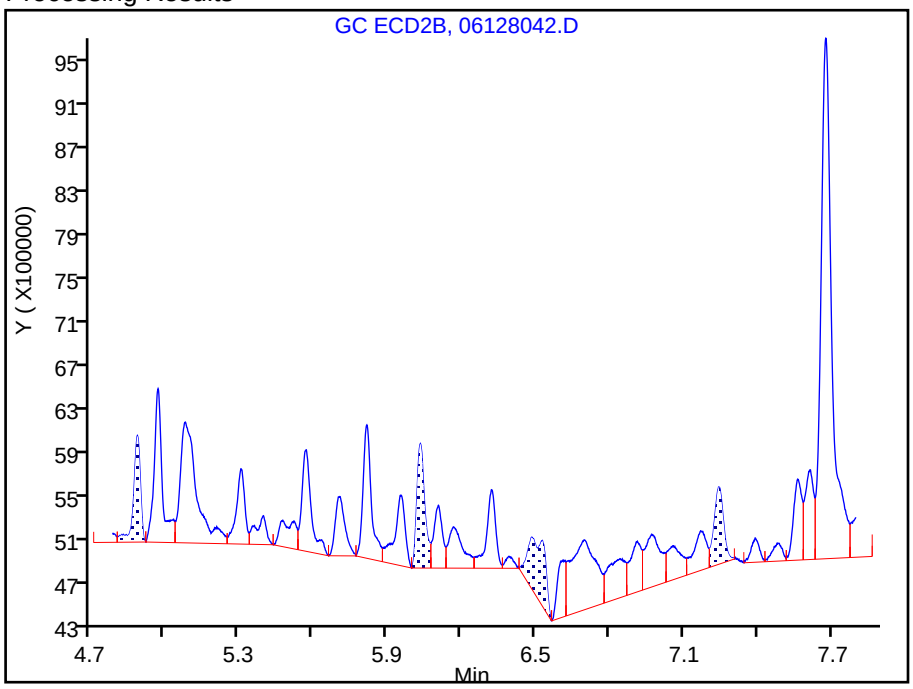
TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CHGC16\20180612-22163.b\06128042.D		
Injection Date:	12-Jun-2018 20:54:26	Instrument ID:	CHGC16
Lims ID:	180-78460-A-1-A	Lab Sample ID:	180-78460-1
Client ID:	CE-MW-38R2_060418		
Operator ID:	402331	ALS Bottle#:	38 Worklist Smp#: 38
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	PCB_CHGC16	Limit Group:	GCS 8082A ICAL with IS

7 PCB-1248, Detector: 2, GC ECD2B

Processing Results

Exp RT	RT	Response	Amount
4.87	4.88	955914	0.018813
6.03	6.03	1116920	0.012923
6.49	6.48	460271	0.004594
7.25	7.24	693815	0.006264
7.70			
		Average =	0.009687



Reviewer: oravecj, 13-Jun-2018 12:18:05

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

User Disabled Compound Report

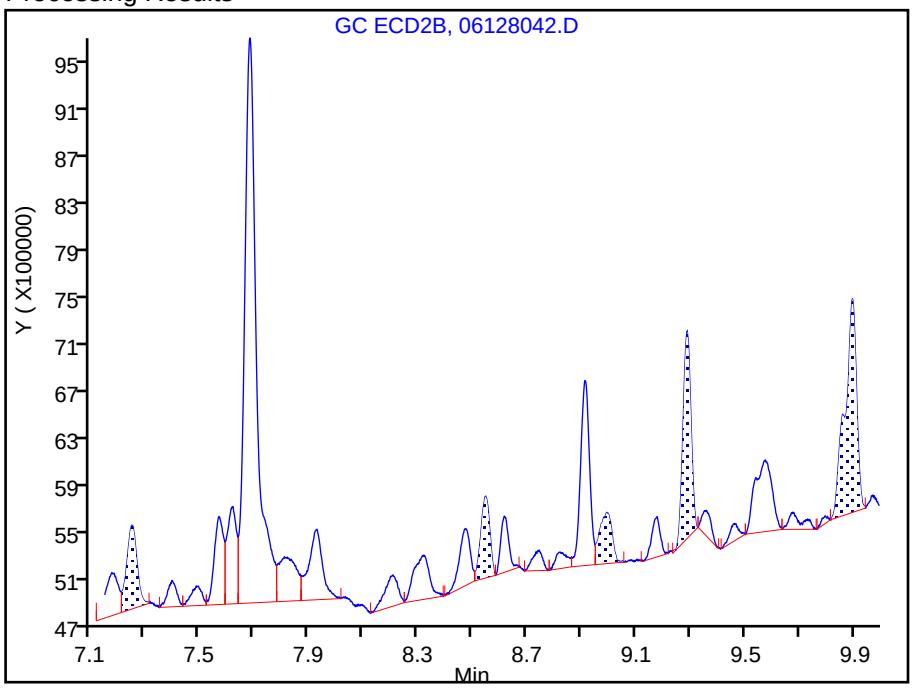
TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CHGC16\20180612-22163.b\06128042.D				
Injection Date:	12-Jun-2018 20:54:26	Instrument ID:	CHGC16		
Lims ID:	180-78460-A-1-A	Lab Sample ID:	180-78460-1		
Client ID:	CE-MW-38R2_060418				
Operator ID:	402331	ALS Bottle#:	38	Worklist Smp#:	38
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	PCB_CHGC16	Limit Group:	GCS 8082A ICAL with IS		

8 PCB-1254, Detector: 2, GC ECD2B

Processing Results

Exp RT	RT	Response	Amount
7.24	7.24	693815	0.005917
8.55	8.55	673268	0.003809
8.97	8.99	423623	0.003323
9.29	9.29	1714218	0.023297
9.90	9.90	1766525	0.013446
		Average =	0.008074



Reviewer: oravecj, 13-Jun-2018 12:18:10

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Pittsburgh Job No.: 180-78460-1 Analy Batch No.: 240288

SDG No.:

Instrument ID: CHGC16 GC Column: RTX-CLP1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/23/2018 10:18 Calibration End Date: 03/23/2018 10:18 Calibration ID: 37559

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 180-240288/1	03238005.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1						B	M1	M2								
PCB-1221 Peak 1	0.0085					Ave		0.0085						20.0			
PCB-1221 Peak 2	0.0125					Ave		0.0125						20.0			
PCB-1221 Peak 3	0.0274					Ave		0.0274						20.0			
PCB-1254 Peak 1	0.0490					Ave		0.0490						20.0			
PCB-1254 Peak 2	0.0620					Ave		0.0620						20.0			
PCB-1254 Peak 3	0.0439					Ave		0.0439						20.0			
PCB-1254 Peak 4	0.0350					Ave		0.0350						20.0			
PCB-1254 Peak 5	0.0448					Ave		0.0448						20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Pittsburgh Job No.: 180-78460-1 Analy Batch No.: 240288

SDG No.:

Instrument ID: CHGC16 GC Column: RTX-CLP1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/23/2018 10:18 Calibration End Date: 03/23/2018 10:18 Calibration ID: 37559

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 180-240288/1	03238005.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG)				
			LVL 1					LVL 1				
PCB-1221 Peak 1	BNB	Ave	12399193					0.500				
PCB-1221 Peak 2	BNB	Ave	18222097					0.500				
PCB-1221 Peak 3	BNB	Ave	39842236					0.500				
PCB-1254 Peak 1	PCB20	Ave	47181234					0.500				
PCB-1254 Peak 2	PCB20	Ave	59705155					0.500				
PCB-1254 Peak 3	PCB20	Ave	42262943					0.500				
PCB-1254 Peak 4	PCB20	Ave	33718345					0.500				
PCB-1254 Peak 5	PCB20	Ave	43198533					0.500				

Curve Type Legend:
Ave = Average ISTD by Height

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC16\20180323-21018.b\03238005.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 23-Mar-2018 10:18:20 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0021018-001
Operator ID: 402331 Instrument ID: CHGC16
Sublist: chrom-PCB_CHGC16*sub26

Method: \\ChromNA\Pittsburgh\ChromData\CHGC16\20180323-21018.b\PCB_CHGC16.m
Limit Group: GCS 8082A ICAL with IS
Last Update: 24-Mar-2018 07:55:15 Calib Date: 23-Mar-2018 13:43:53
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHGC16\20180323-21018.b\03238015.D

Column 1 : Restek CLP 1 (0.53 mm) Det: GC ECD1A
Column 2 : Restek CLP2 (0.53 mm) Det: GC ECD2B
Process Host: XAWRK020

First Level Reviewer: oravecj Date: 23-Mar-2018 11:13:49

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 1-Bromo-2-nitrobenzene							
1	2.760	2.761	-0.001	291022213H	0.1000	0.1000	
2	2.966	2.966	0.000	346601941H	0.1000	0.1000	
4 PCB-1221							
1	2.931	2.931	0.000	12399193H	0.5000	0.5000	
1	3.535	3.535	0.000	18222097H	0.5000	0.5000	
1	3.714	3.714	0.000	39842236H	0.5000	0.5000	
		Average of Peak Amounts =				0.5000	
2	3.358	3.358	0.000	13746996H	0.5000	0.5000	
2	4.150	4.150	0.000	17990560H	0.5000	0.5000	
2	4.392	4.392	0.000	36176294H	0.5000	0.5000	
		Average of Peak Amounts =				0.5000	
						RPD = 0.00	
8 PCB-1254							
1	6.207	6.207	0.000	47181234H	0.5000	0.5000	
1	6.867	6.867	0.000	59705155H	0.5000	0.5000	
1	7.365	7.365	0.000	42262943H	0.5000	0.5000	
1	7.721	7.721	0.000	33718345H	0.5000	0.5000	
1	8.274	8.274	0.000	43198533H	0.5000	0.5000	
		Average of Peak Amounts =				0.5000	
2	7.317	7.317	0.000	38195034H	0.5000	0.5000	
2	8.626	8.626	0.000	57574269H	0.5000	0.5000	
2	9.045	9.045	0.000	41526647H	0.5000	0.5000	
2	9.359	9.359	0.000	23968517H	0.5000	0.5000	
2	9.968	9.968	0.000	42794672H	0.5000	0.5000	
		Average of Peak Amounts =				0.5000	
						RPD = 0.00	
* 16 PCB-205 (IS)							
1	10.975	10.975	0.000	192690108H	0.1000	0.1000	
2	12.318	12.318	0.000	181676509H	0.1000	0.1000	

Reagents:

GCAR2154CALL4_00017	Amount Added:	1.00	Units: mL	
PCBINT_00007	Amount Added:	0.01	Units: mL	Run Reagent

Report Date: 24-Mar-2018 07:55:16 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC16\20180323-21018.b\03238005.D

Injection Date: 23-Mar-2018 10:18:20 Instrument ID: CHGC16

Lims ID: IC

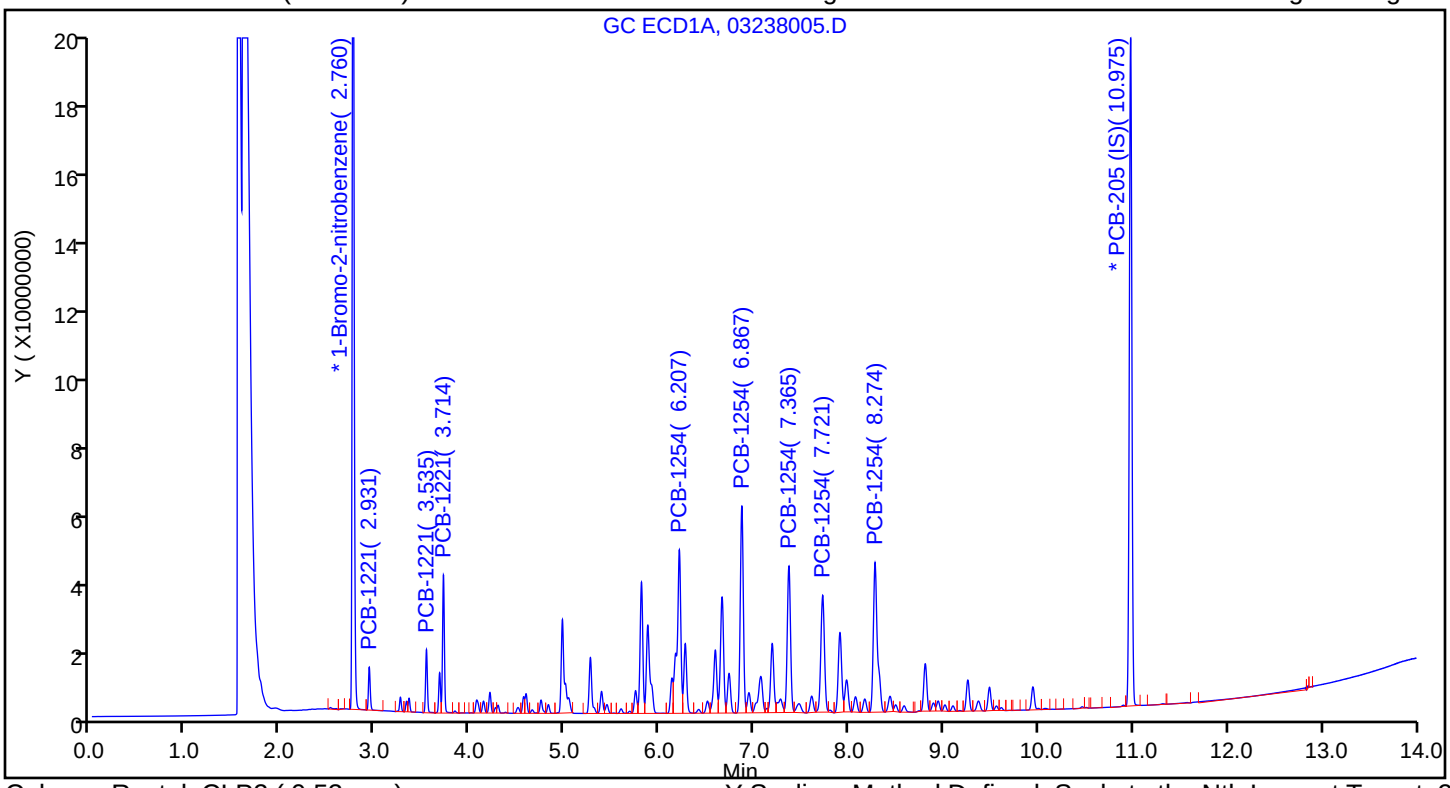
Client ID:

Operator ID: 402331 ALS Bottle#: 1 Worklist Smp#: 1

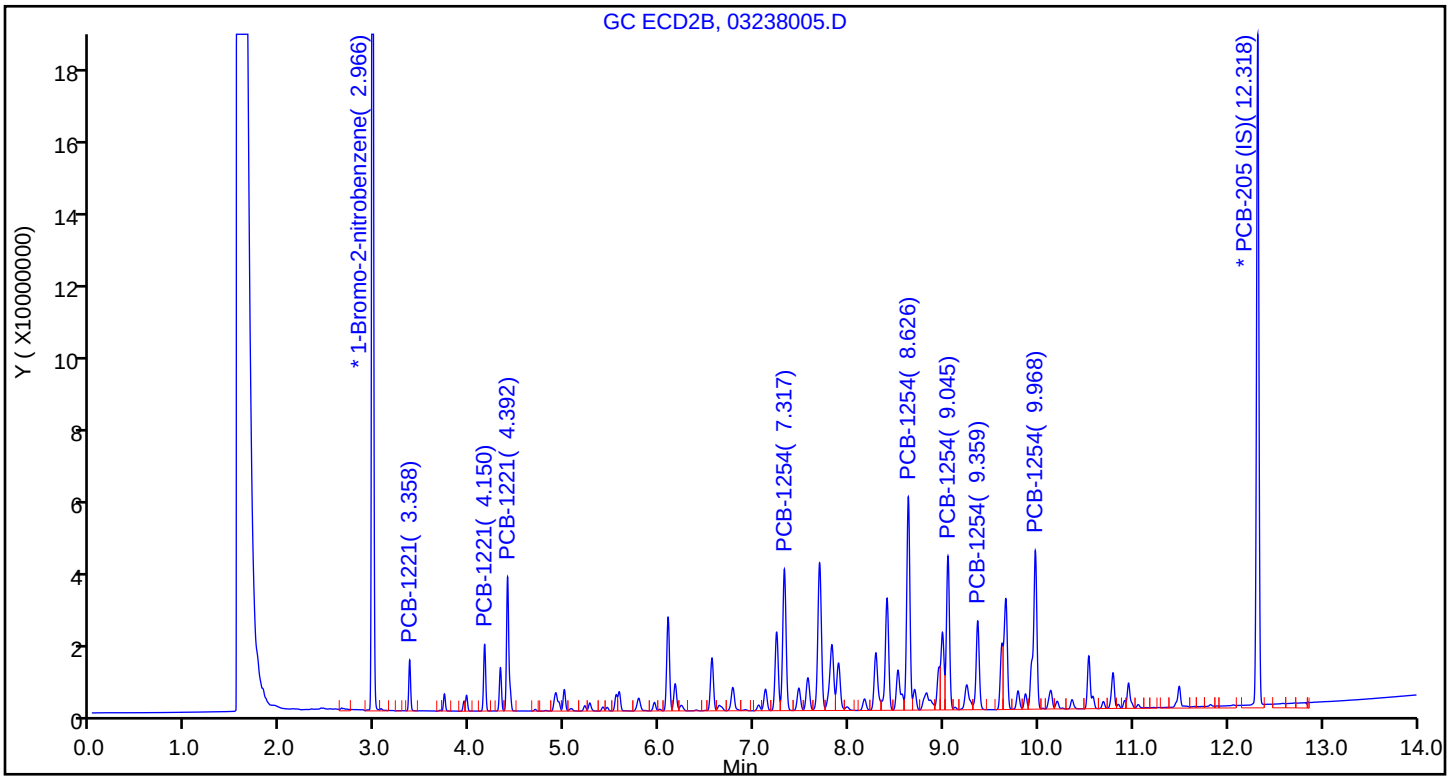
Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: PCB_CHGC16 Limit Group: GCS 8082A ICAL with IS

Column: Restek CLP 1 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Column: Restek CLP2 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Pittsburgh Job No.: 180-78460-1 Analy Batch No.: 240288

SDG No.:

Instrument ID: CHGC16 GC Column: RTX-CLP2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/23/2018 10:18 Calibration End Date: 03/23/2018 10:18 Calibration ID: 37560

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 180-240288/1	03238005.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1						B	M1	M2								
PCB-1221 Peak 1	0.0079					Ave		0.0079						20.0			
PCB-1221 Peak 2	0.0104					Ave		0.0104						20.0			
PCB-1221 Peak 3	0.0209					Ave		0.0209						20.0			
PCB-1254 Peak 1	0.0420					Ave		0.0420						20.0			
PCB-1254 Peak 2	0.0634					Ave		0.0634						20.0			
PCB-1254 Peak 3	0.0457					Ave		0.0457						20.0			
PCB-1254 Peak 4	0.0264					Ave		0.0264						20.0			
PCB-1254 Peak 5	0.0471					Ave		0.0471						20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Pittsburgh Job No.: 180-78460-1 Analy Batch No.: 240288

SDG No.:

Instrument ID: CHGC16 GC Column: RTX-CLP2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/23/2018 10:18 Calibration End Date: 03/23/2018 10:18 Calibration ID: 37560

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 180-240288/1	03238005.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG)				
			LVL 1					LVL 1				
PCB-1221 Peak 1	BNB	Ave	13746996					0.500				
PCB-1221 Peak 2	BNB	Ave	17990560					0.500				
PCB-1221 Peak 3	BNB	Ave	36176294					0.500				
PCB-1254 Peak 1	PCB20	Ave	38195034					0.500				
PCB-1254 Peak 2	PCB20	Ave	57574269					0.500				
PCB-1254 Peak 3	PCB20	Ave	41526647					0.500				
PCB-1254 Peak 4	PCB20	Ave	23968517					0.500				
PCB-1254 Peak 5	PCB20	Ave	42794672					0.500				

Curve Type Legend:
Ave = Average ISTD by Height

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC16\20180323-21018.b\03238005.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 23-Mar-2018 10:18:20 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0021018-001
Operator ID: 402331 Instrument ID: CHGC16
Sublist: chrom-PCB_CHGC16*sub26

Method: \\ChromNA\Pittsburgh\ChromData\CHGC16\20180323-21018.b\PCB_CHGC16.m
Limit Group: GCS 8082A ICAL with IS
Last Update: 24-Mar-2018 07:55:15 Calib Date: 23-Mar-2018 13:43:53
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHGC16\20180323-21018.b\03238015.D

Column 1 : Restek CLP 1 (0.53 mm) Det: GC ECD1A
Column 2 : Restek CLP2 (0.53 mm) Det: GC ECD2B
Process Host: XAWRK020

First Level Reviewer: oravecj Date: 23-Mar-2018 11:13:49

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 1-Bromo-2-nitrobenzene							
1	2.760	2.761	-0.001	291022213H	0.1000	0.1000	
2	2.966	2.966	0.000	346601941H	0.1000	0.1000	
4 PCB-1221							
1	2.931	2.931	0.000	12399193H	0.5000	0.5000	
1	3.535	3.535	0.000	18222097H	0.5000	0.5000	
1	3.714	3.714	0.000	39842236H	0.5000	0.5000	
		Average of Peak Amounts =				0.5000	
2	3.358	3.358	0.000	13746996H	0.5000	0.5000	
2	4.150	4.150	0.000	17990560H	0.5000	0.5000	
2	4.392	4.392	0.000	36176294H	0.5000	0.5000	
		Average of Peak Amounts =				0.5000	
						RPD = 0.00	
8 PCB-1254							
1	6.207	6.207	0.000	47181234H	0.5000	0.5000	
1	6.867	6.867	0.000	59705155H	0.5000	0.5000	
1	7.365	7.365	0.000	42262943H	0.5000	0.5000	
1	7.721	7.721	0.000	33718345H	0.5000	0.5000	
1	8.274	8.274	0.000	43198533H	0.5000	0.5000	
		Average of Peak Amounts =				0.5000	
2	7.317	7.317	0.000	38195034H	0.5000	0.5000	
2	8.626	8.626	0.000	57574269H	0.5000	0.5000	
2	9.045	9.045	0.000	41526647H	0.5000	0.5000	
2	9.359	9.359	0.000	23968517H	0.5000	0.5000	
2	9.968	9.968	0.000	42794672H	0.5000	0.5000	
		Average of Peak Amounts =				0.5000	
						RPD = 0.00	
* 16 PCB-205 (IS)							
1	10.975	10.975	0.000	192690108H	0.1000	0.1000	
2	12.318	12.318	0.000	181676509H	0.1000	0.1000	

Reagents:

GCAR2154CALL4_00017	Amount Added:	1.00	Units: mL	
PCBINT_00007	Amount Added:	0.01	Units: mL	Run Reagent

Report Date: 24-Mar-2018 07:55:16 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC16\20180323-21018.b\03238005.D

Injection Date: 23-Mar-2018 10:18:20 Instrument ID: CHGC16

Lims ID: IC

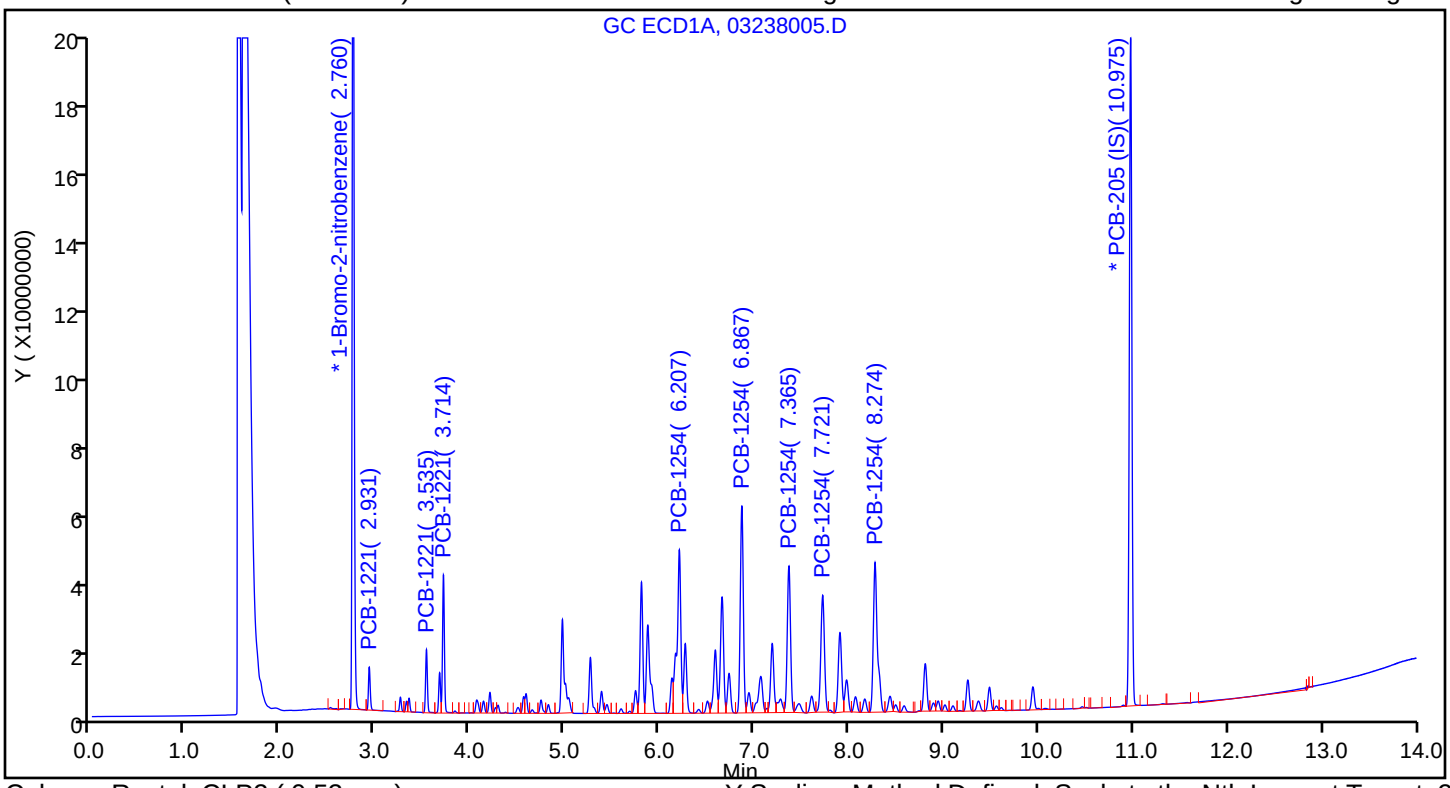
Client ID:

Operator ID: 402331 ALS Bottle#: 1 Worklist Smp#: 1

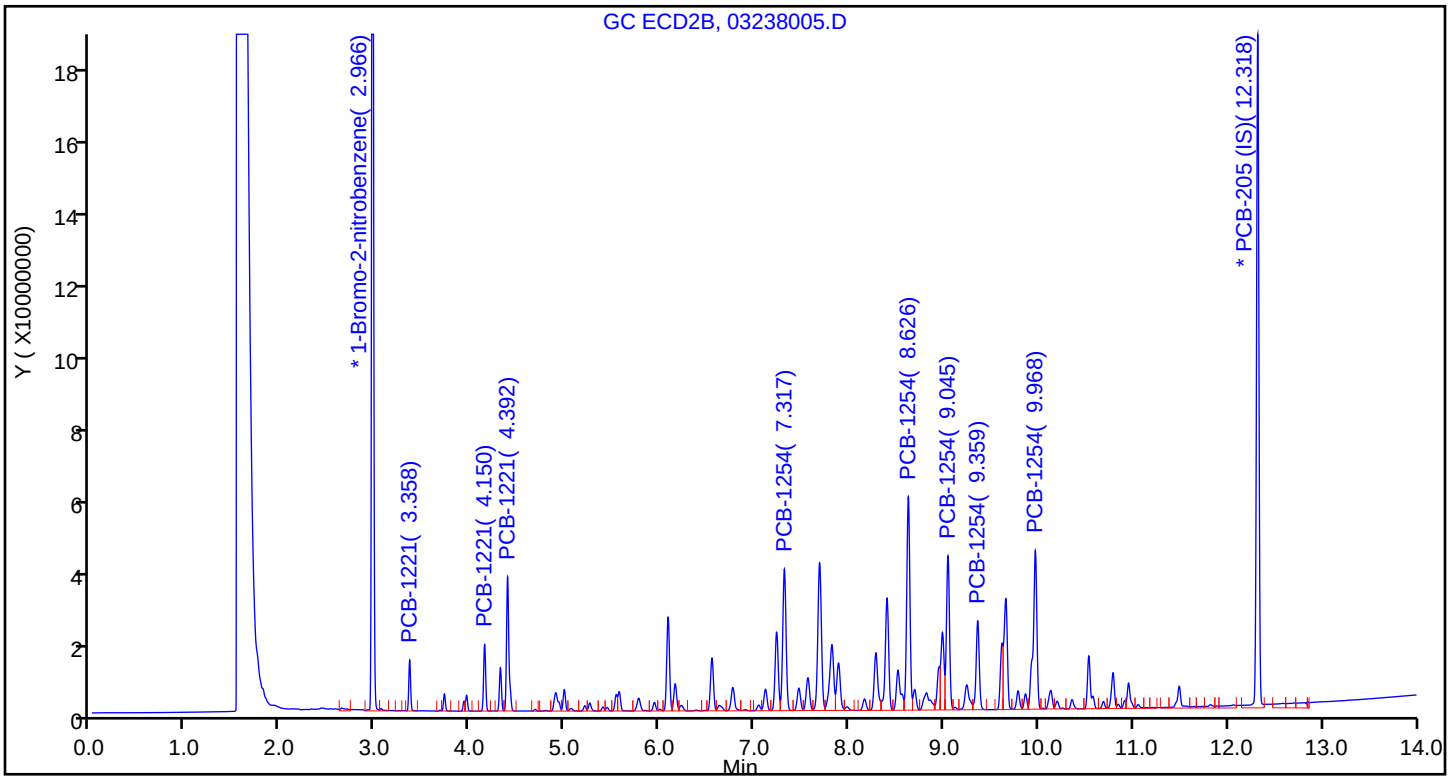
Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: PCB_CHGC16 Limit Group: GCS 8082A ICAL with IS

Column: Restek CLP 1 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Column: Restek CLP2 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Pittsburgh Job No.: 180-78460-1 Analy Batch No.: 240288

SDG No.:

Instrument ID: CHGC16 GC Column: RTX-CLP1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/23/2018 10:39 Calibration End Date: 03/23/2018 10:39 Calibration ID: 37565

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 180-240288/2	03238006.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1						B	M1	M2								
PCB-1232 Peak 1	0.0087					Ave		0.0087						20.0			
PCB-1232 Peak 2	0.0230					Ave		0.0230						20.0			
PCB-1232 Peak 3	0.0133					Ave		0.0133						20.0			
PCB-1232 Peak 4	0.0122					Ave		0.0122						20.0			
PCB-1232 Peak 5	0.0090					Ave		0.0090						20.0			
PCB-1262 Peak 1	0.0517					Ave		0.0517						20.0			
PCB-1262 Peak 2	0.0480					Ave		0.0480						20.0			
PCB-1262 Peak 3	0.0999					Ave		0.0999						20.0			
PCB-1262 Peak 4	0.0365					Ave		0.0365						20.0			
PCB-1262 Peak 5	0.0313					Ave		0.0313						20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Pittsburgh Job No.: 180-78460-1 Analy Batch No.: 240288

SDG No.:

Instrument ID: CHGC16 GC Column: RTX-CLP1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/23/2018 10:39 Calibration End Date: 03/23/2018 10:39 Calibration ID: 37565

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 180-240288/2	03238006.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG)				
			LVL 1					LVL 1				
PCB-1232 Peak 1	BNB	Ave	12859962					0.500				
PCB-1232 Peak 2	BNB	Ave	34165773					0.500				
PCB-1232 Peak 3	BNB	Ave	19693422					0.500				
PCB-1232 Peak 4	BNB	Ave	18043075					0.500				
PCB-1232 Peak 5	BNB	Ave	13409997					0.500				
PCB-1262 Peak 1	PCB20	Ave	51980495					0.500				
PCB-1262 Peak 2	PCB20	Ave	48239946					0.500				
PCB-1262 Peak 3	PCB20	Ave	100421188					0.500				
PCB-1262 Peak 4	PCB20	Ave	36657377					0.500				
PCB-1262 Peak 5	PCB20	Ave	31516185					0.500				

Curve Type Legend:
Ave = Average ISTD by Height

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC16\20180323-21018.b\03238006.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 23-Mar-2018 10:39:12 ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0021018-002
Operator ID: 402331 Instrument ID: CHGC16
Sublist: chrom-PCB_CHGC16*sub29

Method: \\ChromNA\Pittsburgh\ChromData\CHGC16\20180323-21018.b\PCB_CHGC16.m
Limit Group: GCS 8082A ICAL with IS
Last Update: 24-Mar-2018 07:55:11 Calib Date: 23-Mar-2018 13:43:53
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHGC16\20180323-21018.b\03238015.D

Column 1 : Restek CLP 1 (0.53 mm) Det: GC ECD1A
Column 2 : Restek CLP2 (0.53 mm) Det: GC ECD2B
Process Host: XAWRK020

First Level Reviewer: oravecj Date: 24-Mar-2018 07:27:32

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 1-Bromo-2-nitrobenzene							
1	2.760	2.761	-0.001	296639342H	0.1000	0.1000	
2	2.966	2.966	0.000	351470758H	0.1000	0.1000	
3 PCB-1232							
1	3.535	3.535	0.000	12859962H	0.5000	0.5000	
1	3.715	3.715	0.000	34165773H	0.5000	0.5000	
1	4.067	4.067	0.000	19693422H	0.5000	0.5000	
1	4.745	4.745	0.000	18043075H	0.5000	0.5000	
1	5.267	5.267	0.000	13409997H	0.5000	0.5000	
		Average of Peak Amounts =				0.5000	
2	4.149	4.149	0.000	12694083H	0.5000	0.5000	
2	4.392	4.392	0.000	31850784H	0.5000	0.5000	
2	4.907	4.907	0.000	18272935H	0.5000	0.5000	
2	5.777	5.777	0.000	16154092H	0.5000	0.5000	
2	7.322	7.322	0.000	16291574H	0.5000	0.5000	
		Average of Peak Amounts =				0.5000	
						RPD = 0.00	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
10 PCB-1262							
1	8.493	8.493	0.000	51980495H	0.5000	0.5000	
1	8.940	8.940	0.000	48239946H	0.5000	0.5000	
1	9.482	9.482	0.000	100421188H	0.5000	0.5000	
1	9.942	9.942	0.000	36657377H	0.5000	0.5000	
1	10.067	10.067	0.000	31516185H	0.5000	0.5000	
		Average of Peak Amounts =				0.5000	
2	9.357	9.357	0.000	40226194H	0.5000	0.5000	
2	10.112	10.112	0.000	53884338H	0.5000	0.5000	
2	10.577	10.577	0.000	49237545H	0.5000	0.5000	
2	10.952	10.952	0.000	99523274H	0.5000	0.5000	
2	11.476	11.476	0.000	53496056H	0.5000	0.5000	
		Average of Peak Amounts =				0.5000	
						RPD = 0.00	
* 16 PCB-205 (IS)							
1	10.974	10.975	-0.001	201086637H	0.1000	0.1000	
2	12.317	12.318	-0.001	189060986H	0.1000	0.1000	

Reagents:

GCAR3262CALL4_00010	Amount Added:	1.00	Units: mL	
PCBINT_00007	Amount Added:	0.01	Units: mL	Run Reagent

Report Date: 24-Mar-2018 07:55:11 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC16\20180323-21018.b\03238006.D

Injection Date: 23-Mar-2018 10:39:12 Instrument ID: CHGC16

Lims ID: IC

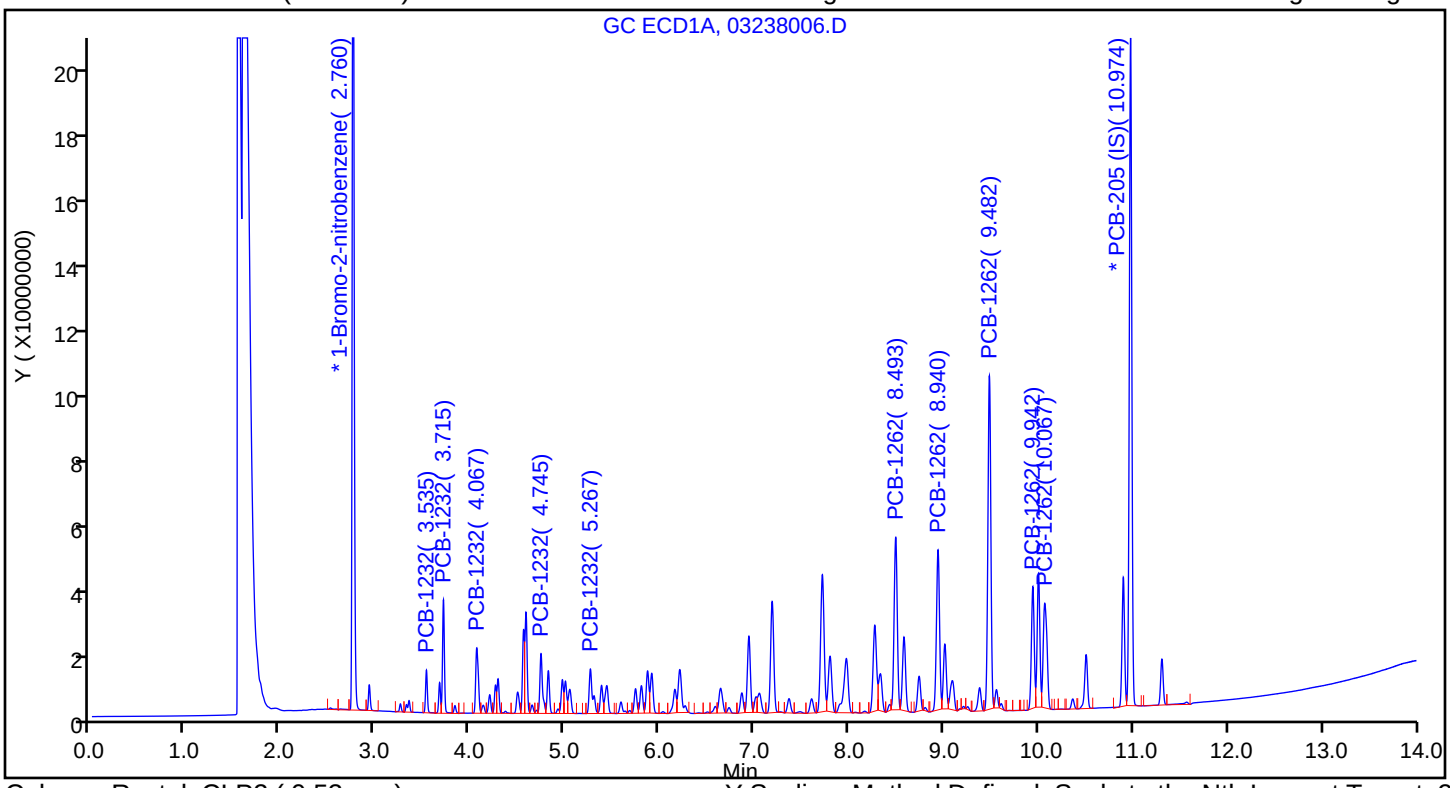
Client ID:

Operator ID: 402331 ALS Bottle#: 2 Worklist Smp#: 2

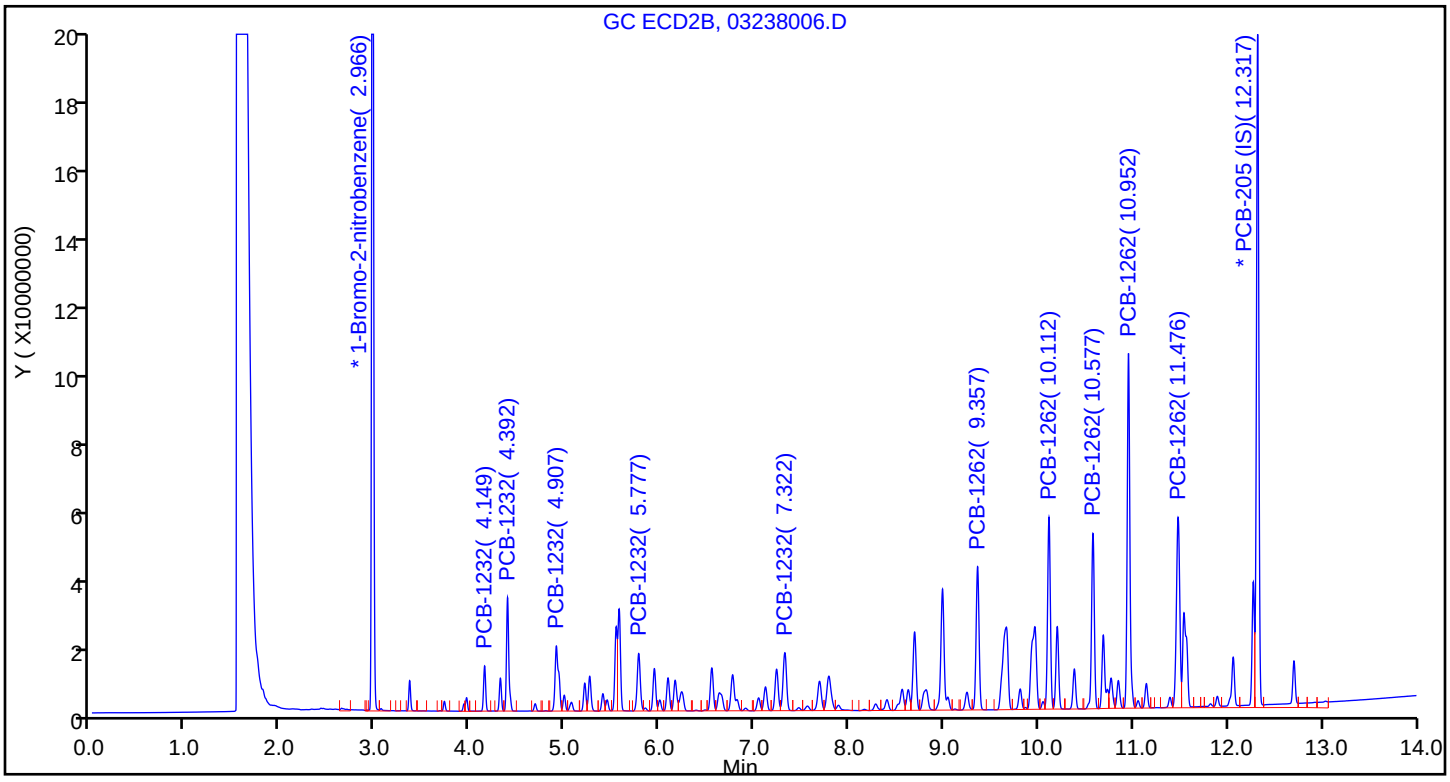
Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: PCB_CHGC16 Limit Group: GCS 8082A ICAL with IS

Column: Restek CLP 1 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Column: Restek CLP2 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Pittsburgh Job No.: 180-78460-1 Analy Batch No.: 240288

SDG No.:

Instrument ID: CHGC16 GC Column: RTX-CLP2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/23/2018 10:39 Calibration End Date: 03/23/2018 10:39 Calibration ID: 37566

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 180-240288/2	03238006.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1						B	M1	M2								
PCB-1232 Peak 1	0.0072					Ave		0.0072						20.0			
PCB-1232 Peak 2	0.0181					Ave		0.0181						20.0			
PCB-1232 Peak 3	0.0104					Ave		0.0104						20.0			
PCB-1232 Peak 4	0.0092					Ave		0.0092						20.0			
PCB-1232 Peak 5	0.0093					Ave		0.0093						20.0			
PCB-1262 Peak 1	0.0426					Ave		0.0426						20.0			
PCB-1262 Peak 2	0.0570					Ave		0.0570						20.0			
PCB-1262 Peak 3	0.0521					Ave		0.0521						20.0			
PCB-1262 Peak 4	0.1053					Ave		0.1053						20.0			
PCB-1262 Peak 5	0.0566					Ave		0.0566						20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Pittsburgh Job No.: 180-78460-1 Analy Batch No.: 240288

SDG No.:

Instrument ID: CHGC16 GC Column: RTX-CLP2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/23/2018 10:39 Calibration End Date: 03/23/2018 10:39 Calibration ID: 37566

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 180-240288/2	03238006.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG)				
			LVL 1					LVL 1				
PCB-1232 Peak 1	BNB	Ave	12694083					0.500				
PCB-1232 Peak 2	BNB	Ave	31850784					0.500				
PCB-1232 Peak 3	BNB	Ave	18272935					0.500				
PCB-1232 Peak 4	BNB	Ave	16154092					0.500				
PCB-1232 Peak 5	BNB	Ave	16291574					0.500				
PCB-1262 Peak 1	PCB20	Ave	40226194					0.500				
PCB-1262 Peak 2	PCB20	Ave	53884338					0.500				
PCB-1262 Peak 3	PCB20	Ave	49237545					0.500				
PCB-1262 Peak 4	PCB20	Ave	99523274					0.500				
PCB-1262 Peak 5	PCB20	Ave	53496056					0.500				

Curve Type Legend:
Ave = Average ISTD by Height

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC16\20180323-21018.b\03238006.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 23-Mar-2018 10:39:12 ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0021018-002
Operator ID: 402331 Instrument ID: CHGC16
Sublist: chrom-PCB_CHGC16*sub29

Method: \\ChromNA\Pittsburgh\ChromData\CHGC16\20180323-21018.b\PCB_CHGC16.m
Limit Group: GCS 8082A ICAL with IS
Last Update: 24-Mar-2018 07:55:11 Calib Date: 23-Mar-2018 13:43:53
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHGC16\20180323-21018.b\03238015.D

Column 1 : Restek CLP 1 (0.53 mm) Det: GC ECD1A
Column 2 : Restek CLP2 (0.53 mm) Det: GC ECD2B
Process Host: XAWRK020

First Level Reviewer: oravecj Date: 24-Mar-2018 07:27:32

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 1-Bromo-2-nitrobenzene							
1	2.760	2.761	-0.001	296639342H	0.1000	0.1000	
2	2.966	2.966	0.000	351470758H	0.1000	0.1000	
3 PCB-1232							
1	3.535	3.535	0.000	12859962H	0.5000	0.5000	
1	3.715	3.715	0.000	34165773H	0.5000	0.5000	
1	4.067	4.067	0.000	19693422H	0.5000	0.5000	
1	4.745	4.745	0.000	18043075H	0.5000	0.5000	
1	5.267	5.267	0.000	13409997H	0.5000	0.5000	
		Average of Peak Amounts =				0.5000	
2	4.149	4.149	0.000	12694083H	0.5000	0.5000	
2	4.392	4.392	0.000	31850784H	0.5000	0.5000	
2	4.907	4.907	0.000	18272935H	0.5000	0.5000	
2	5.777	5.777	0.000	16154092H	0.5000	0.5000	
2	7.322	7.322	0.000	16291574H	0.5000	0.5000	
		Average of Peak Amounts =				0.5000	
						RPD = 0.00	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
10 PCB-1262							
1	8.493	8.493	0.000	51980495H	0.5000	0.5000	
1	8.940	8.940	0.000	48239946H	0.5000	0.5000	
1	9.482	9.482	0.000	100421188H	0.5000	0.5000	
1	9.942	9.942	0.000	36657377H	0.5000	0.5000	
1	10.067	10.067	0.000	31516185H	0.5000	0.5000	
		Average of Peak Amounts =				0.5000	
2	9.357	9.357	0.000	40226194H	0.5000	0.5000	
2	10.112	10.112	0.000	53884338H	0.5000	0.5000	
2	10.577	10.577	0.000	49237545H	0.5000	0.5000	
2	10.952	10.952	0.000	99523274H	0.5000	0.5000	
2	11.476	11.476	0.000	53496056H	0.5000	0.5000	
		Average of Peak Amounts =				0.5000	
						RPD = 0.00	
* 16 PCB-205 (IS)							
1	10.974	10.975	-0.001	201086637H	0.1000	0.1000	
2	12.317	12.318	-0.001	189060986H	0.1000	0.1000	

Reagents:

GCAR3262CALL4_00010	Amount Added:	1.00	Units: mL	
PCBINT_00007	Amount Added:	0.01	Units: mL	Run Reagent

Report Date: 24-Mar-2018 07:55:11 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC16\20180323-21018.b\03238006.D

Injection Date: 23-Mar-2018 10:39:12 Instrument ID: CHGC16

Lims ID: IC

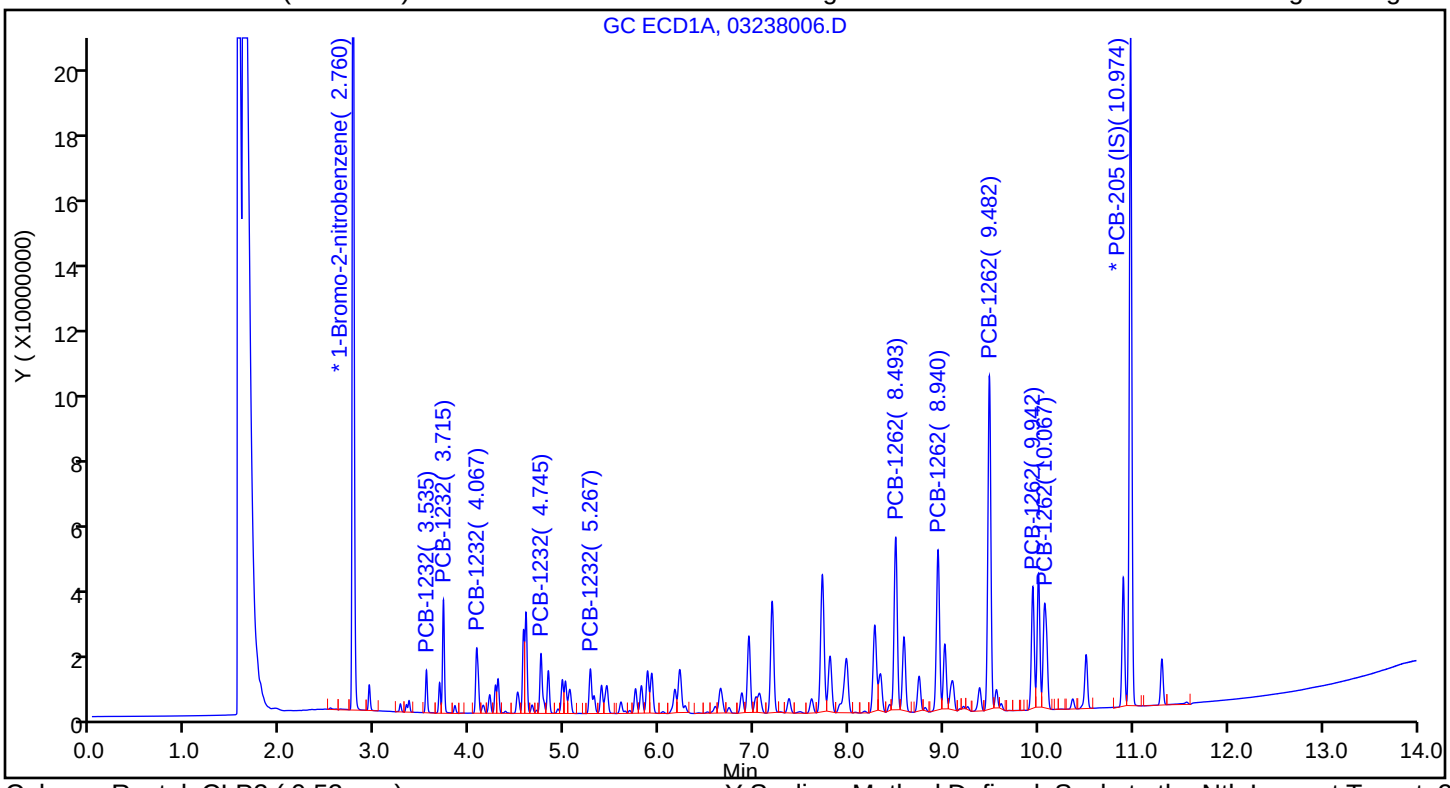
Client ID:

Operator ID: 402331 ALS Bottle#: 2 Worklist Smp#: 2

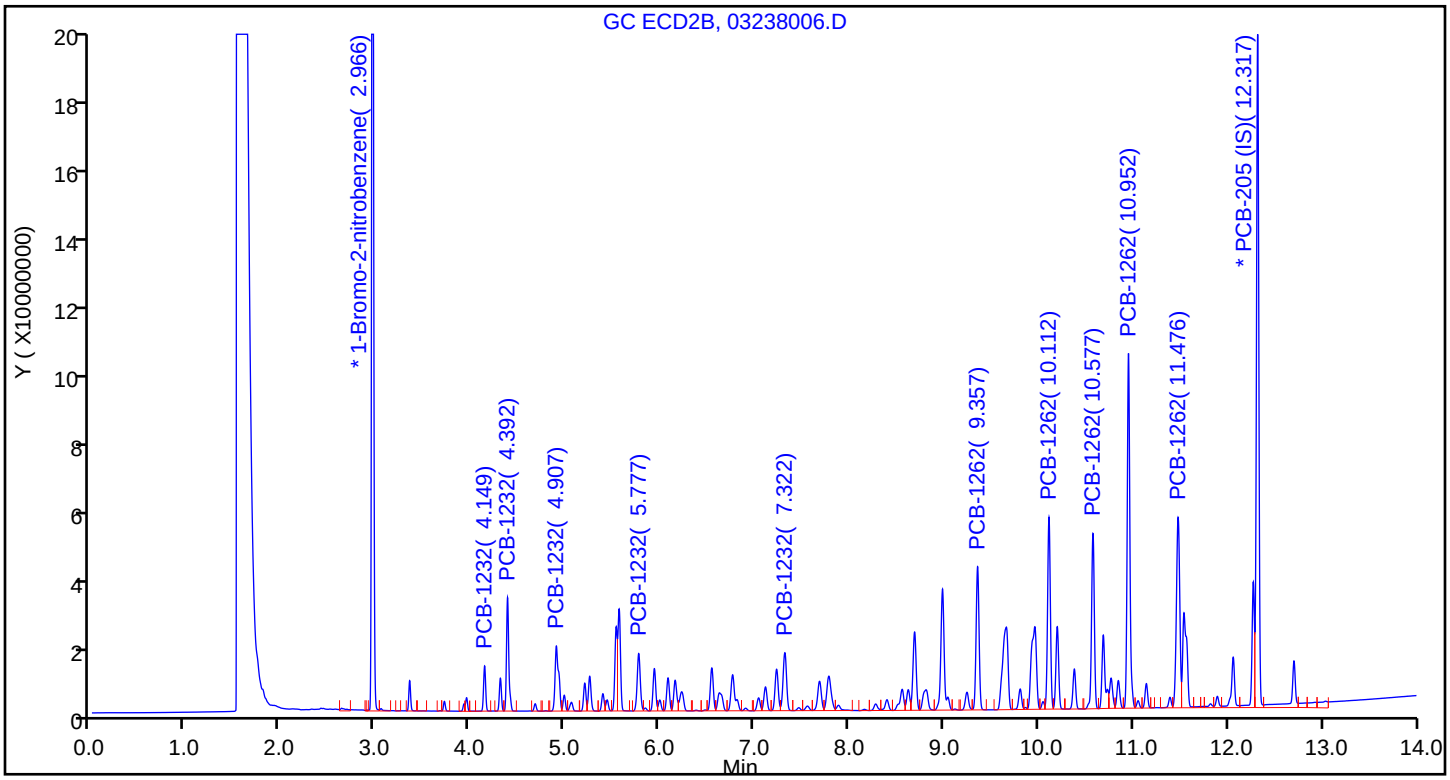
Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: PCB_CHGC16 Limit Group: GCS 8082A ICAL with IS

Column: Restek CLP 1 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Column: Restek CLP2 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Pittsburgh Job No.: 180-78460-1 Analy Batch No.: 240288

SDG No.:

Instrument ID: CHGC16 GC Column: RTX-CLP1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/23/2018 10:59 Calibration End Date: 03/23/2018 10:59 Calibration ID: 37571

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 180-240288/3	03238007.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1						B	M1	M2								
PCB-1242 Peak 1	0.0170					Ave		0.0170						20.0			
PCB-1242 Peak 2	0.0215					Ave		0.0215						20.0			
PCB-1242 Peak 3	0.0215					Ave		0.0215						20.0			
PCB-1242 Peak 4	0.0176					Ave		0.0176						20.0			
PCB-1242 Peak 5	0.0173					Ave		0.0173						20.0			
PCB-1268 Peak 1	0.1203					Ave		0.1203						20.0			
PCB-1268 Peak 2	0.1009					Ave		0.1009						20.0			
PCB-1268 Peak 3	0.0967					Ave		0.0967						20.0			
PCB-1268 Peak 4	0.3099					Ave		0.3099						20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Pittsburgh Job No.: 180-78460-1 Analy Batch No.: 240288

SDG No.:

Instrument ID: CHGC16 GC Column: RTX-CLP1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/23/2018 10:59 Calibration End Date: 03/23/2018 10:59 Calibration ID: 37571

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 180-240288/3	03238007.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG)				
			LVL 1					LVL 1				
PCB-1242 Peak 1	BNB	Ave	24504473					0.500				
PCB-1242 Peak 2	BNB	Ave	31045971					0.500				
PCB-1242 Peak 3	BNB	Ave	31085319					0.500				
PCB-1242 Peak 4	BNB	Ave	25427647					0.500				
PCB-1242 Peak 5	BNB	Ave	24944487					0.500				
PCB-1268 Peak 1	PCB20	Ave	119192707					0.500				
PCB-1268 Peak 2	PCB20	Ave	99960005					0.500				
PCB-1268 Peak 3	PCB20	Ave	95774520					0.500				
PCB-1268 Peak 4	PCB20	Ave	306969244					0.500				

Curve Type Legend:
Ave = Average ISTD by Height

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC16\20180323-21018.b\03238007.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 23-Mar-2018 10:59:57 ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0021018-003
Operator ID: 402331 Instrument ID: CHGC16
Sublist: chrom-PCB_CHGC16*sub28

Method: \\ChromNA\Pittsburgh\ChromData\CHGC16\20180323-21018.b\PCB_CHGC16.m
Limit Group: GCS 8082A ICAL with IS
Last Update: 24-Mar-2018 07:55:07 Calib Date: 23-Mar-2018 13:43:53
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHGC16\20180323-21018.b\03238015.D

Column 1 : Restek CLP 1 (0.53 mm) Det: GC ECD1A
Column 2 : Restek CLP2 (0.53 mm) Det: GC ECD2B
Process Host: XAWRK020

First Level Reviewer: oravecj Date: 24-Mar-2018 07:31:18

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 1-Bromo-2-nitrobenzene							
1	2.760	2.761	-0.001	289064797H	0.1000	0.1000	
2	2.965	2.966	-0.001	343167097H	0.1000	0.1000	
5 PCB-1242							
1	3.715	3.715	0.000	24504473H	0.5000	0.5000	
1	4.065	4.065	0.000	31045971H	0.5000	0.5000	
1	4.745	4.745	0.000	31085319H	0.5000	0.5000	
1	5.267	5.267	0.000	25427647H	0.5000	0.5000	
1	5.872	5.872	0.000	24944487H	0.5000	0.5000	
		Average of Peak Amounts =				0.5000	
2	4.392	4.392	0.000	23720570H	0.5000	0.5000	
2	5.571	5.571	0.000	49819816H	0.5000	0.5000	
2	6.551	6.551	0.000	23132375H	0.5000	0.5000	
2	7.324	7.324	0.000	24784938H	0.5000	0.5000	
2	7.786	7.786	0.000	18889322H	0.5000	0.5000	
		Average of Peak Amounts =				0.5000	
						RPD = 0.00	
11 PCB-1268							
1	10.002	10.002	0.000	119192707H	0.5000	0.5000	
1	10.062	10.062	0.000	99960005H	0.5000	0.5000	
1	10.363	10.363	0.000	95774520H	0.5000	0.5000	
1	11.305	11.305	0.000	306969244H	0.5000	0.5000	
		Average of Peak Amounts =				0.5000	
2	11.472	11.472	0.000	114132481H	0.5000	0.5000	
2	11.537	11.537	0.000	95660903H	0.5000	0.5000	
2	11.891	11.891	0.000	89478084H	0.5000	0.5000	
2	12.700	12.700	0.000	287225544H	0.5000	0.5000	
		Average of Peak Amounts =				0.5000	
						RPD = 0.00	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
* 16 PCB-205 (IS)							
1	10.974	10.975	-0.001	198122896H	0.1000	0.1000	
2	12.316	12.318	-0.002	189662837H	0.1000	0.1000	

Reagents:

GCAR4268CALL4_00010	Amount Added:	1.00	Units: mL	
PCBINT_00007	Amount Added:	0.01	Units: mL	Run Reagent

Report Date: 24-Mar-2018 07:55:07 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC16\20180323-21018.b\03238007.D

Injection Date: 23-Mar-2018 10:59:57 Instrument ID: CHGC16

Lims ID: IC

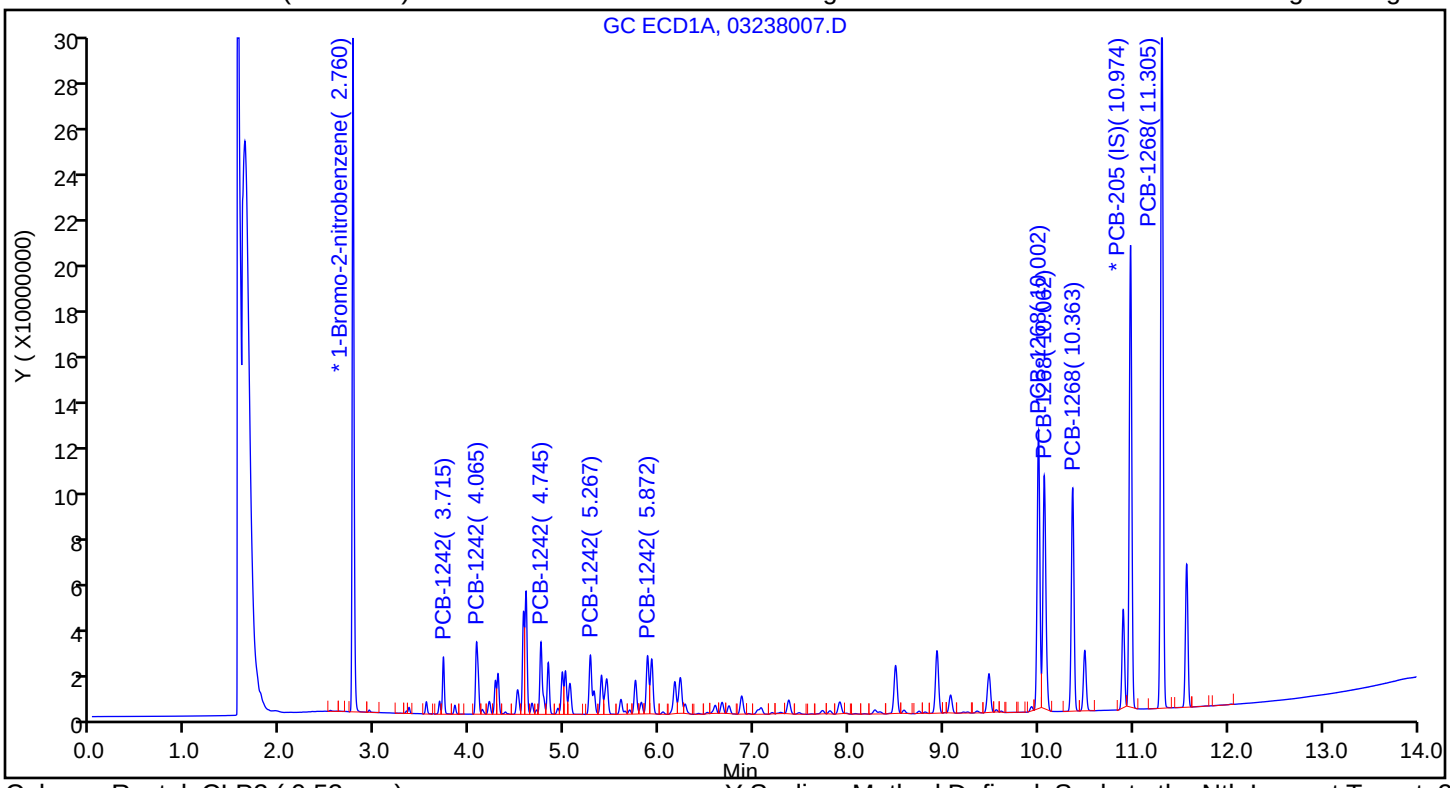
Client ID:

Operator ID: 402331 ALS Bottle#: 3 Worklist Smp#: 3

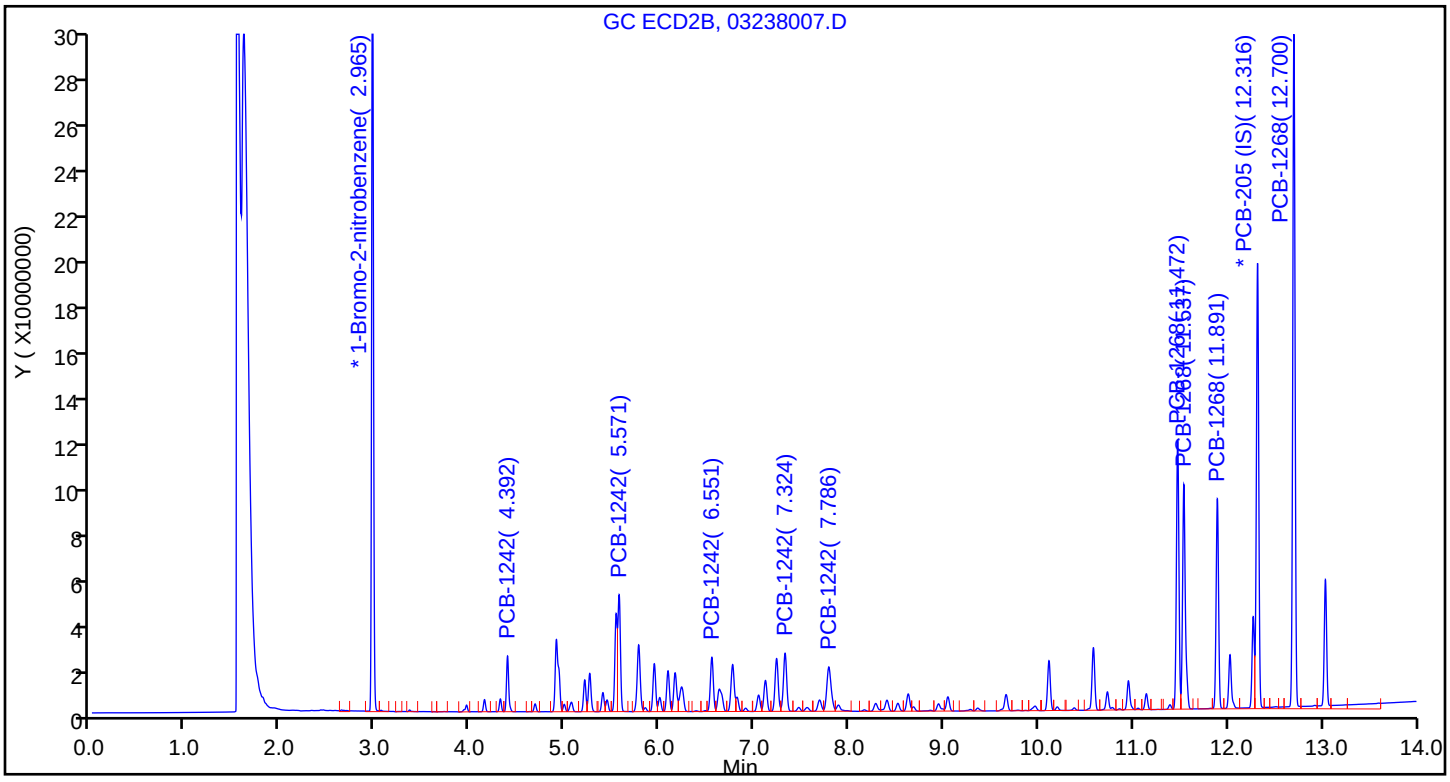
Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: PCB_CHGC16 Limit Group: GCS 8082A ICAL with IS

Column: Restek CLP 1 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Column: Restek CLP2 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Pittsburgh Job No.: 180-78460-1 Analy Batch No.: 240288

SDG No.:

Instrument ID: CHGC16 GC Column: RTX-CLP2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/23/2018 10:59 Calibration End Date: 03/23/2018 10:59 Calibration ID: 37572

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 180-240288/3	03238007.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1						B	M1	M2								
PCB-1242 Peak 1	0.0138					Ave		0.0138						20.0			
PCB-1242 Peak 2	0.0290					Ave		0.0290						20.0			
PCB-1242 Peak 3	0.0135					Ave		0.0135						20.0			
PCB-1242 Peak 4	0.0144					Ave		0.0144						20.0			
PCB-1242 Peak 5	0.0110					Ave		0.0110						20.0			
PCB-1268 Peak 1	0.1204					Ave		0.1204						20.0			
PCB-1268 Peak 2	0.1009					Ave		0.1009						20.0			
PCB-1268 Peak 3	0.0944					Ave		0.0944						20.0			
PCB-1268 Peak 4	0.3029					Ave		0.3029						20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Pittsburgh Job No.: 180-78460-1 Analy Batch No.: 240288

SDG No.:

Instrument ID: CHGC16 GC Column: RTX-CLP2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/23/2018 10:59 Calibration End Date: 03/23/2018 10:59 Calibration ID: 37572

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 180-240288/3	03238007.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG)				
			LVL 1					LVL 1				
PCB-1242 Peak 1	BNB	Ave	23720570					0.500				
PCB-1242 Peak 2	BNB	Ave	49819816					0.500				
PCB-1242 Peak 3	BNB	Ave	23132375					0.500				
PCB-1242 Peak 4	BNB	Ave	24784938					0.500				
PCB-1242 Peak 5	BNB	Ave	18889322					0.500				
PCB-1268 Peak 1	PCB20	Ave	114132481					0.500				
PCB-1268 Peak 2	PCB20	Ave	95660903					0.500				
PCB-1268 Peak 3	PCB20	Ave	89478084					0.500				
PCB-1268 Peak 4	PCB20	Ave	287225544					0.500				

Curve Type Legend:
Ave = Average ISTD by Height

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC16\20180323-21018.b\03238007.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 23-Mar-2018 10:59:57 ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0021018-003
Operator ID: 402331 Instrument ID: CHGC16
Sublist: chrom-PCB_CHGC16*sub28

Method: \\ChromNA\Pittsburgh\ChromData\CHGC16\20180323-21018.b\PCB_CHGC16.m
Limit Group: GCS 8082A ICAL with IS
Last Update: 24-Mar-2018 07:55:07 Calib Date: 23-Mar-2018 13:43:53
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHGC16\20180323-21018.b\03238015.D

Column 1 : Restek CLP 1 (0.53 mm) Det: GC ECD1A
Column 2 : Restek CLP2 (0.53 mm) Det: GC ECD2B
Process Host: XAWRK020

First Level Reviewer: oravecj Date: 24-Mar-2018 07:31:18

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 1-Bromo-2-nitrobenzene							
1	2.760	2.761	-0.001	289064797H	0.1000	0.1000	
2	2.965	2.966	-0.001	343167097H	0.1000	0.1000	
5 PCB-1242							
1	3.715	3.715	0.000	24504473H	0.5000	0.5000	
1	4.065	4.065	0.000	31045971H	0.5000	0.5000	
1	4.745	4.745	0.000	31085319H	0.5000	0.5000	
1	5.267	5.267	0.000	25427647H	0.5000	0.5000	
1	5.872	5.872	0.000	24944487H	0.5000	0.5000	
		Average of Peak Amounts =				0.5000	
2	4.392	4.392	0.000	23720570H	0.5000	0.5000	
2	5.571	5.571	0.000	49819816H	0.5000	0.5000	
2	6.551	6.551	0.000	23132375H	0.5000	0.5000	
2	7.324	7.324	0.000	24784938H	0.5000	0.5000	
2	7.786	7.786	0.000	18889322H	0.5000	0.5000	
		Average of Peak Amounts =				0.5000	
						RPD = 0.00	
11 PCB-1268							
1	10.002	10.002	0.000	119192707H	0.5000	0.5000	
1	10.062	10.062	0.000	99960005H	0.5000	0.5000	
1	10.363	10.363	0.000	95774520H	0.5000	0.5000	
1	11.305	11.305	0.000	306969244H	0.5000	0.5000	
		Average of Peak Amounts =				0.5000	
2	11.472	11.472	0.000	114132481H	0.5000	0.5000	
2	11.537	11.537	0.000	95660903H	0.5000	0.5000	
2	11.891	11.891	0.000	89478084H	0.5000	0.5000	
2	12.700	12.700	0.000	287225544H	0.5000	0.5000	
		Average of Peak Amounts =				0.5000	
						RPD = 0.00	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
* 16 PCB-205 (IS)							
1	10.974	10.975	-0.001	198122896H	0.1000	0.1000	
2	12.316	12.318	-0.002	189662837H	0.1000	0.1000	

Reagents:

GCAR4268CALL4_00010	Amount Added:	1.00	Units: mL	
PCBINT_00007	Amount Added:	0.01	Units: mL	Run Reagent

Report Date: 24-Mar-2018 07:55:07 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC16\20180323-21018.b\03238007.D

Injection Date: 23-Mar-2018 10:59:57 Instrument ID: CHGC16

Lims ID: IC

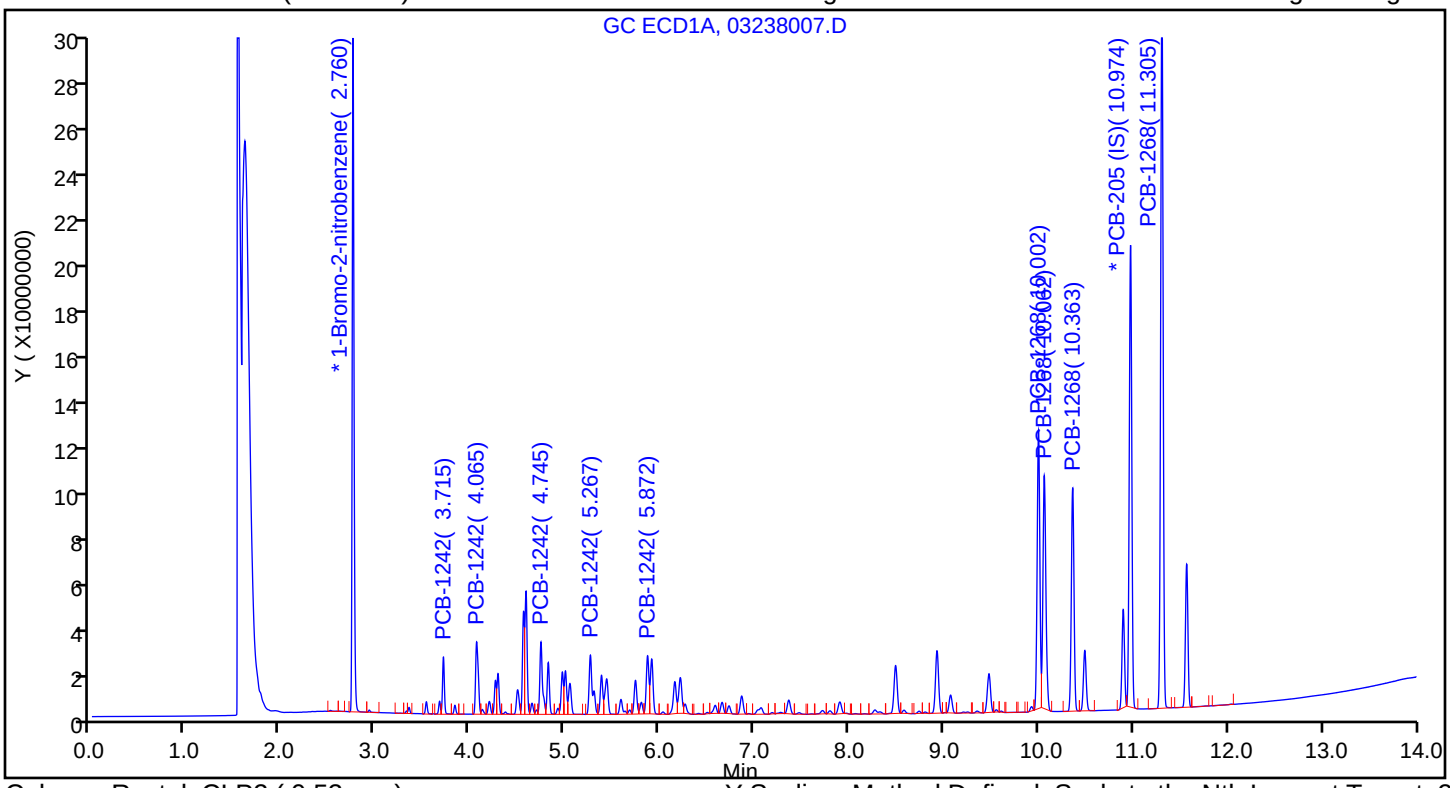
Client ID:

Operator ID: 402331 ALS Bottle#: 3 Worklist Smp#: 3

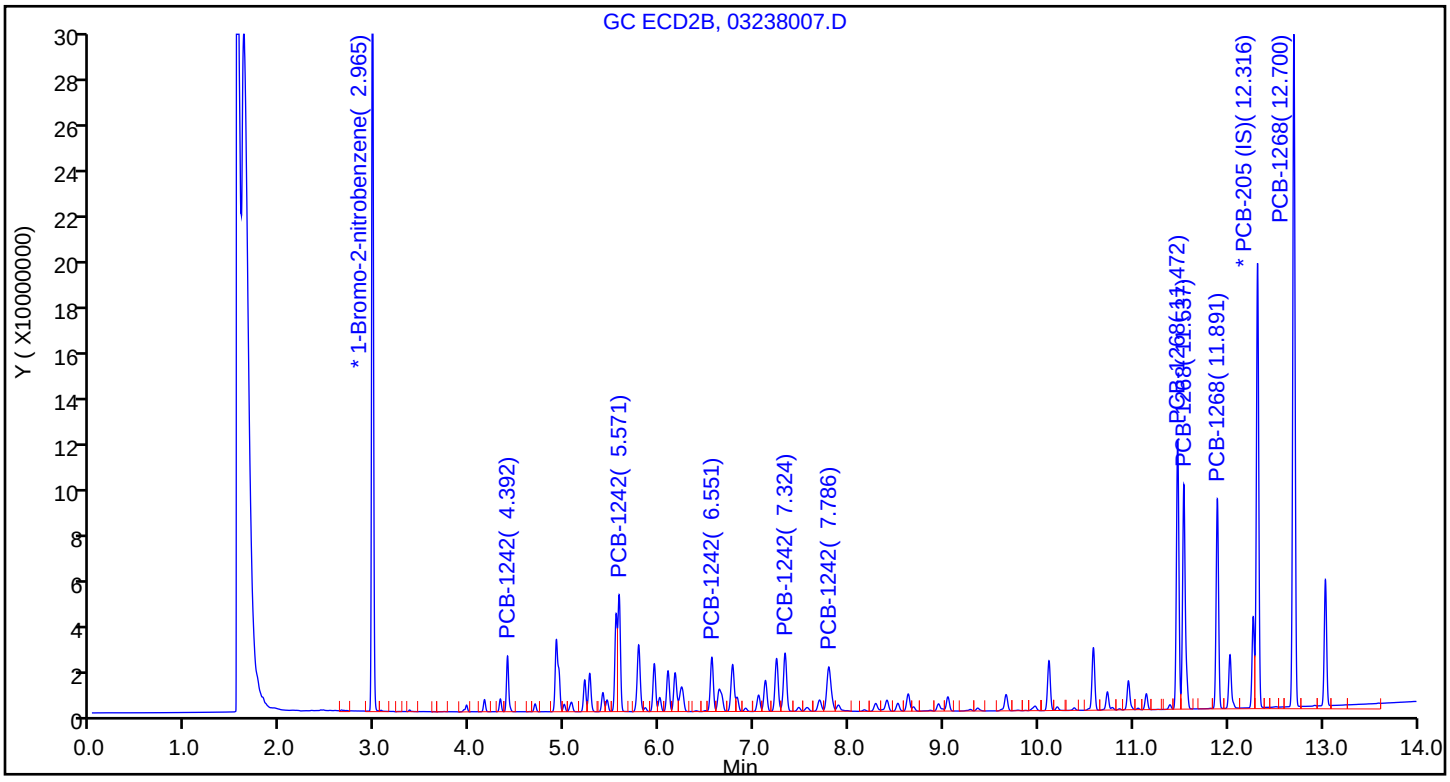
Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: PCB_CHGC16 Limit Group: GCS 8082A ICAL with IS

Column: Restek CLP 1 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Column: Restek CLP2 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Pittsburgh Job No.: 180-78460-1 Analy Batch No.: 240288

SDG No.:

Instrument ID: CHGC16 GC Column: RTX-CLP1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/23/2018 11:17 Calibration End Date: 03/23/2018 11:17 Calibration ID: 37577

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 180-240288/4	03238008.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1						B	M1	M2								
PCB-1248 Peak 1	0.0130					Ave		0.0130						20.0			
PCB-1248 Peak 2	0.0224					Ave		0.0224						20.0			
PCB-1248 Peak 3	0.0279					Ave		0.0279						20.0			
PCB-1248 Peak 4	0.0293					Ave		0.0293						20.0			
PCB-1248 Peak 5	0.0135					Ave		0.0135						20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Pittsburgh Job No.: 180-78460-1 Analy Batch No.: 240288

SDG No.:

Instrument ID: CHGC16 GC Column: RTX-CLP1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/23/2018 11:17 Calibration End Date: 03/23/2018 11:17 Calibration ID: 37577

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 180-240288/4	03238008.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG)				
			LVL 1					LVL 1				
PCB-1248 Peak 1	BNB	Ave	18383556					0.500				
PCB-1248 Peak 2	BNB	Ave	31701493					0.500				
PCB-1248 Peak 3	BNB	Ave	39404825					0.500				
PCB-1248 Peak 4	BNB	Ave	41493739					0.500				
PCB-1248 Peak 5	BNB	Ave	19065469					0.500				

Curve Type Legend:
Ave = Average ISTD by Height

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC16\20180323-21018.b\03238008.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 23-Mar-2018 11:17:59 ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0021018-004
Operator ID: 402331 Instrument ID: CHGC16
Sublist: chrom-PCB_CHGC16*sub27

Method: \\ChromNA\Pittsburgh\ChromData\CHGC16\20180323-21018.b\PCB_CHGC16.m
Limit Group: GCS 8082A ICAL with IS
Last Update: 24-Mar-2018 07:55:00 Calib Date: 23-Mar-2018 13:43:53
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHGC16\20180323-21018.b\03238015.D

Column 1 : Restek CLP 1 (0.53 mm) Det: GC ECD1A
Column 2 : Restek CLP2 (0.53 mm) Det: GC ECD2B
Process Host: XAWRK020

First Level Reviewer: oravecj Date: 24-Mar-2018 07:34:16

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 1-Bromo-2-nitrobenzene							
1	2.757	2.761	-0.004	282802944H	0.1000	0.1000	
2	2.966	2.966	0.000	337873494H	0.1000	0.1000	
7 PCB-1248							
1	4.060	4.060	0.000	18383556H	0.5000	0.5000	
1	4.965	4.965	0.000	31701493H	0.5000	0.5000	
1	5.260	5.260	0.000	39404825H	0.5000	0.5000	
1	5.864	5.864	0.000	41493739H	0.5000	0.5000	
1	6.859	6.859	0.000	19065469H	0.5000	0.5000	
		Average of Peak Amounts =				0.5000	
2	4.909	4.909	0.000	17904514H	0.5000	0.5000	
2	6.088	6.088	0.000	30455779H	0.5000	0.5000	
2	6.550	6.550	0.000	35307343H	0.5000	0.5000	
2	7.323	7.323	0.000	39029381H	0.5000	0.5000	
2	7.786	7.786	0.000	27207304H	0.5000	0.5000	
		Average of Peak Amounts =				0.5000	
						RPD = 0.00	
* 16 PCB-205 (IS)							
1	10.970	10.975	-0.006	195575618H	0.1000	0.1000	
2	12.315	12.318	-0.002	184511811H	0.1000	0.1000	

Reagents:

GCAR1248CALL4_00018 Amount Added: 1.00 Units: mL
PCBINT_00007 Amount Added: 0.01 Units: mL Run Reagent

Report Date: 24-Mar-2018 07:55:01 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC16\20180323-21018.b\03238008.D

Injection Date: 23-Mar-2018 11:17:59 Instrument ID: CHGC16

Lims ID: IC

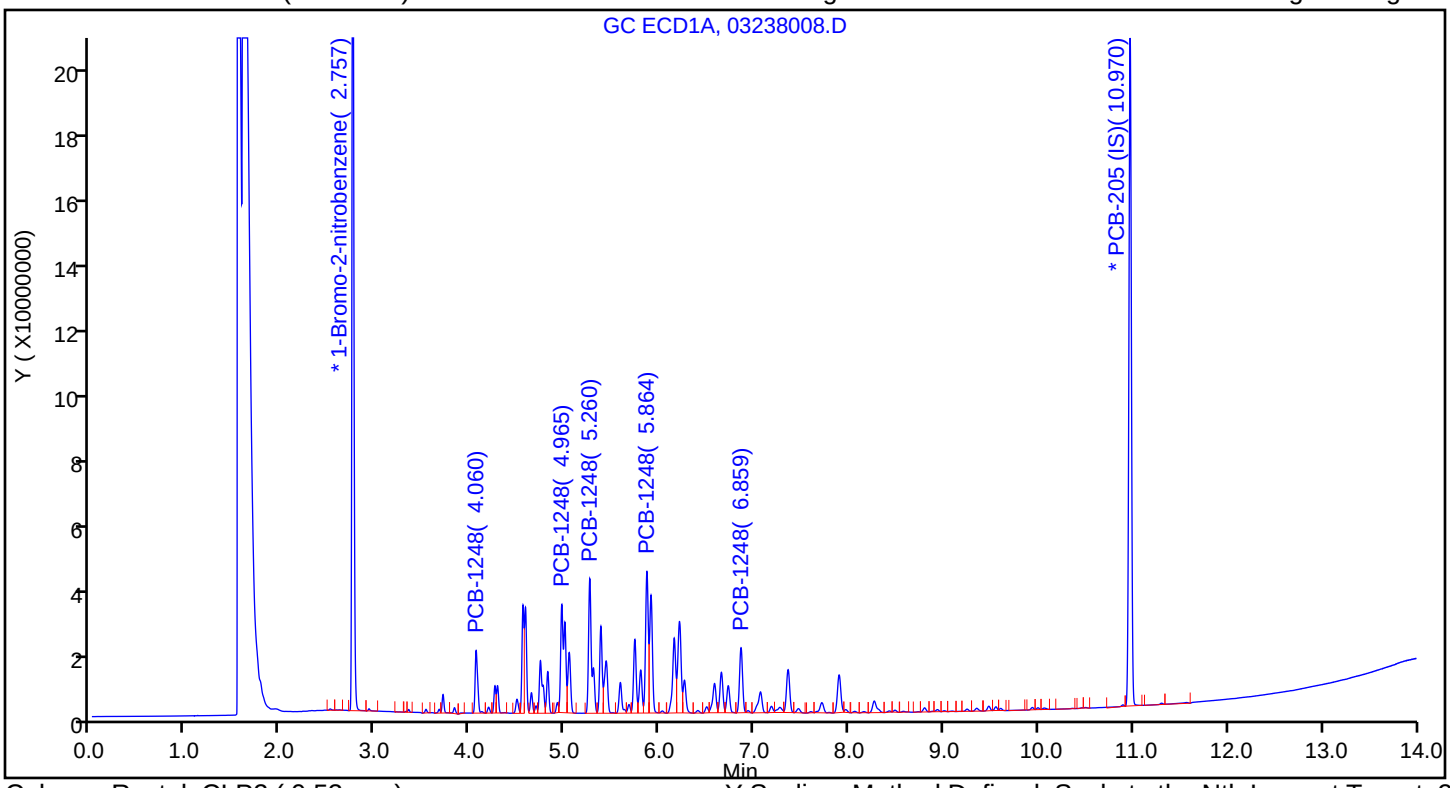
Client ID:

Operator ID: 402331 ALS Bottle#: 4 Worklist Smp#: 4

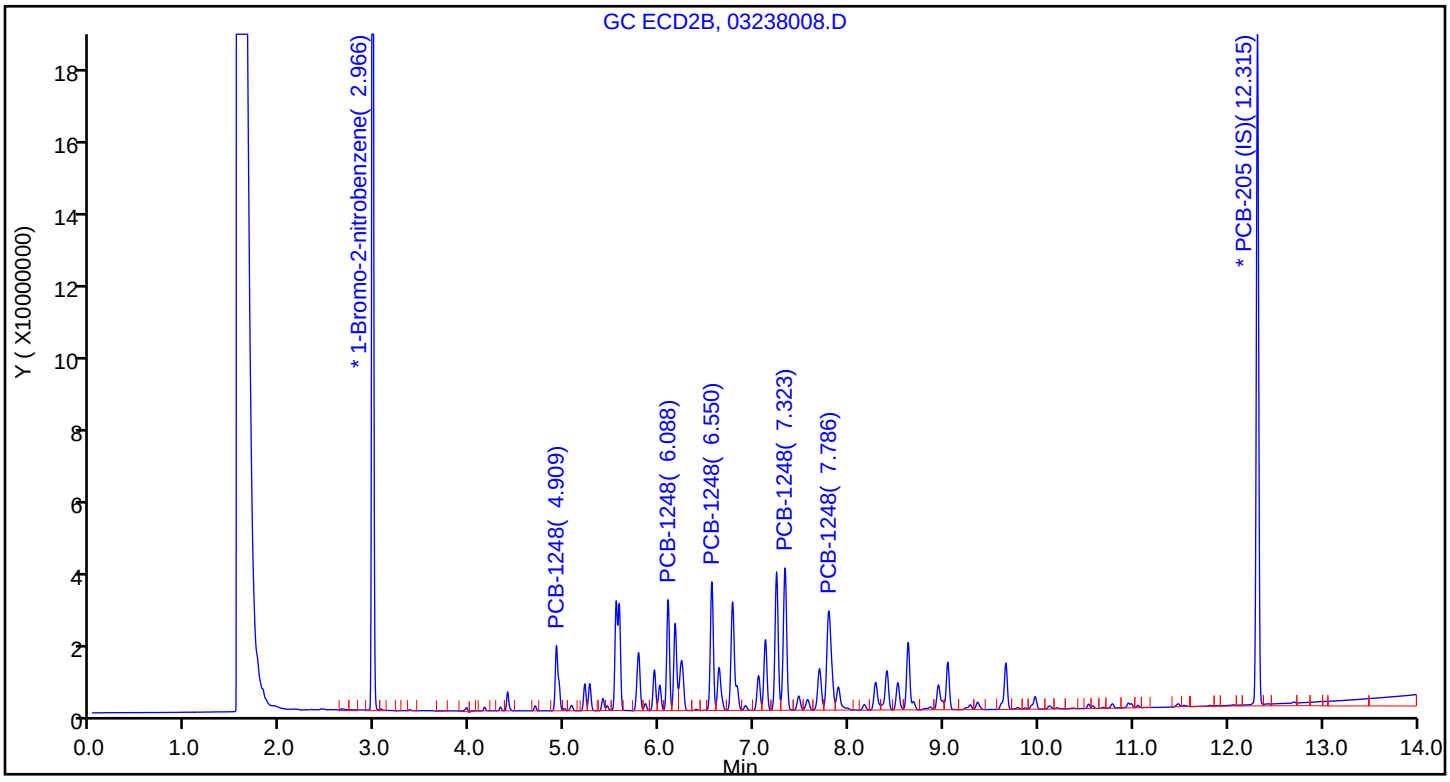
Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: PCB_CHGC16 Limit Group: GCS 8082A ICAL with IS

Column: Restek CLP 1 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Column: Restek CLP2 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Pittsburgh Job No.: 180-78460-1 Analy Batch No.: 240288

SDG No.:

Instrument ID: CHGC16 GC Column: RTX-CLP2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/23/2018 11:17 Calibration End Date: 03/23/2018 11:17 Calibration ID: 37578

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 180-240288/4	03238008.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1						B	M1	M2								
PCB-1248 Peak 1	0.0106					Ave		0.0106						20.0			
PCB-1248 Peak 2	0.0180					Ave		0.0180						20.0			
PCB-1248 Peak 3	0.0209					Ave		0.0209						20.0			
PCB-1248 Peak 4	0.0231					Ave		0.0231						20.0			
PCB-1248 Peak 5	0.0161					Ave		0.0161						20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Pittsburgh Job No.: 180-78460-1 Analy Batch No.: 240288

SDG No.:

Instrument ID: CHGC16 GC Column: RTX-CLP2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/23/2018 11:17 Calibration End Date: 03/23/2018 11:17 Calibration ID: 37578

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 180-240288/4	03238008.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG)				
			LVL 1					LVL 1				
PCB-1248 Peak 1	BNB	Ave	17904514					0.500				
PCB-1248 Peak 2	BNB	Ave	30455779					0.500				
PCB-1248 Peak 3	BNB	Ave	35307343					0.500				
PCB-1248 Peak 4	BNB	Ave	39029381					0.500				
PCB-1248 Peak 5	BNB	Ave	27207304					0.500				

Curve Type Legend:
Ave = Average ISTD by Height

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC16\20180323-21018.b\03238008.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 23-Mar-2018 11:17:59 ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0021018-004
Operator ID: 402331 Instrument ID: CHGC16
Sublist: chrom-PCB_CHGC16*sub27

Method: \\ChromNA\Pittsburgh\ChromData\CHGC16\20180323-21018.b\PCB_CHGC16.m
Limit Group: GCS 8082A ICAL with IS
Last Update: 24-Mar-2018 07:55:00 Calib Date: 23-Mar-2018 13:43:53
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHGC16\20180323-21018.b\03238015.D

Column 1 : Restek CLP 1 (0.53 mm) Det: GC ECD1A
Column 2 : Restek CLP2 (0.53 mm) Det: GC ECD2B
Process Host: XAWRK020

First Level Reviewer: oravecj Date: 24-Mar-2018 07:34:16

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 1-Bromo-2-nitrobenzene							
1	2.757	2.761	-0.004	282802944H	0.1000	0.1000	
2	2.966	2.966	0.000	337873494H	0.1000	0.1000	
7 PCB-1248							
1	4.060	4.060	0.000	18383556H	0.5000	0.5000	
1	4.965	4.965	0.000	31701493H	0.5000	0.5000	
1	5.260	5.260	0.000	39404825H	0.5000	0.5000	
1	5.864	5.864	0.000	41493739H	0.5000	0.5000	
1	6.859	6.859	0.000	19065469H	0.5000	0.5000	
		Average of Peak Amounts =				0.5000	
2	4.909	4.909	0.000	17904514H	0.5000	0.5000	
2	6.088	6.088	0.000	30455779H	0.5000	0.5000	
2	6.550	6.550	0.000	35307343H	0.5000	0.5000	
2	7.323	7.323	0.000	39029381H	0.5000	0.5000	
2	7.786	7.786	0.000	27207304H	0.5000	0.5000	
		Average of Peak Amounts =				0.5000	
						RPD = 0.00	
* 16 PCB-205 (IS)							
1	10.970	10.975	-0.006	195575618H	0.1000	0.1000	
2	12.315	12.318	-0.002	184511811H	0.1000	0.1000	

Reagents:

GCAR1248CALL4_00018 Amount Added: 1.00 Units: mL
PCBINT_00007 Amount Added: 0.01 Units: mL Run Reagent

Report Date: 24-Mar-2018 07:55:01 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC16\20180323-21018.b\03238008.D

Injection Date: 23-Mar-2018 11:17:59 Instrument ID: CHGC16

Lims ID: IC

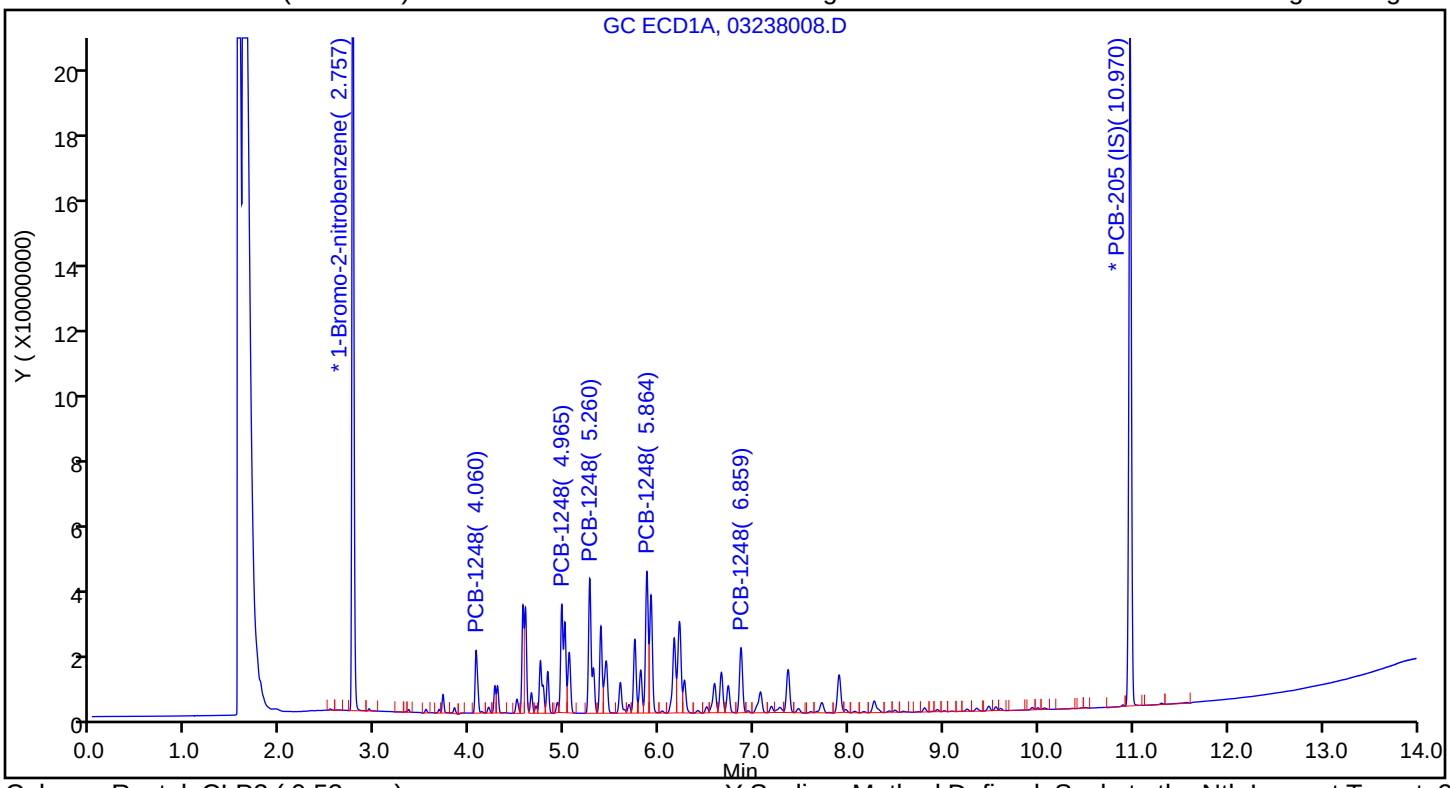
Client ID:

Operator ID: 402331 ALS Bottle#: 4 Worklist Smp#: 4

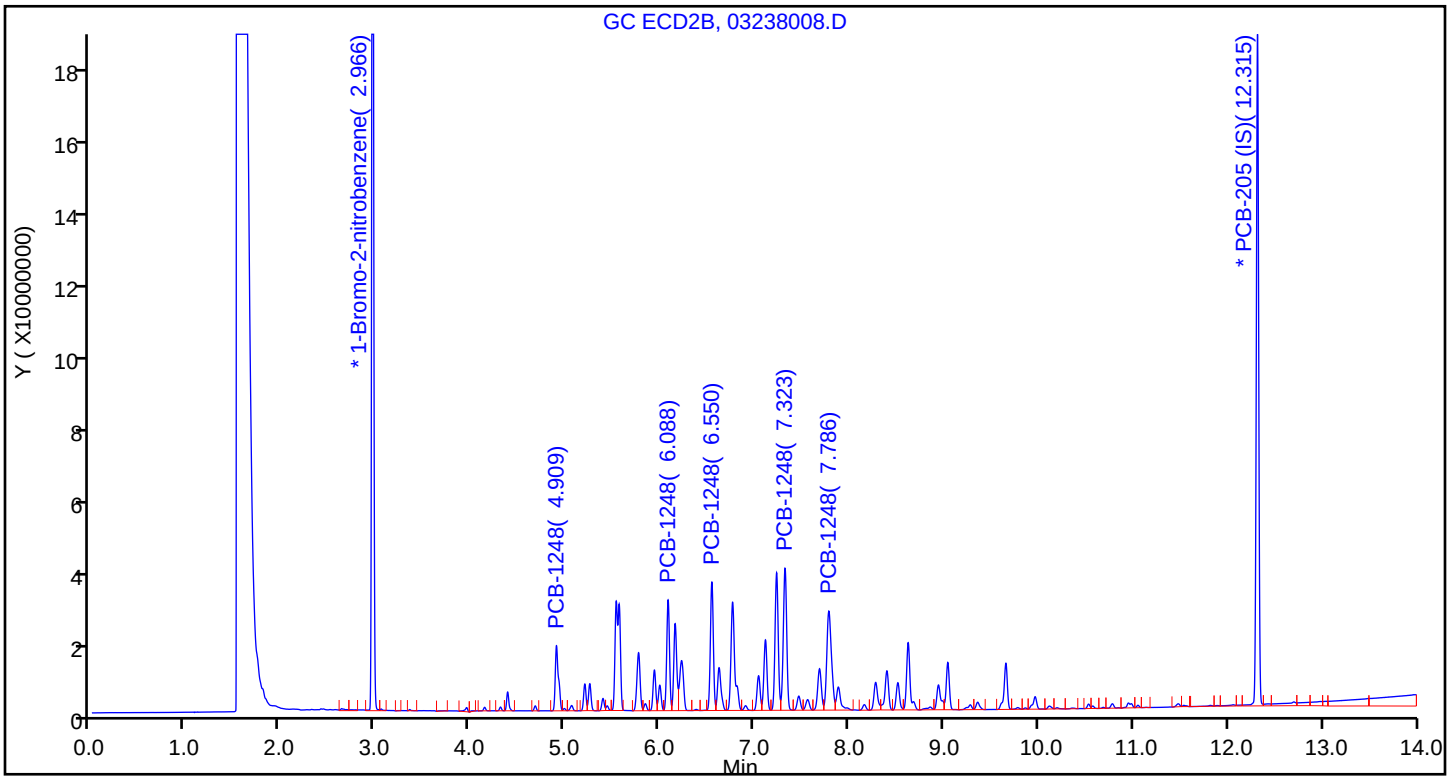
Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: PCB_CHGC16 Limit Group: GCS 8082A ICAL with IS

Column: Restek CLP 1 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Column: Restek CLP2 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Pittsburgh Job No.: 180-78460-1 Analy Batch No.: 240288

SDG No.:

Instrument ID: CHGC16 GC Column: RTX-CLP1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/23/2018 11:38 Calibration End Date: 03/23/2018 13:43 Calibration ID: 37553

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 180-240288/5	03238009.D
Level 2	IC 180-240288/6	03238010.D
Level 3	IC 180-240288/7	03238011.D
Level 4	ICIS 180-240288/8	03238012.D
Level 5	IC 180-240288/9	03238013.D
Level 6	IC 180-240288/10	03238014.D
Level 7	IC 180-240288/11	03238015.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
PCB-1016 Peak 1	0.0245 0.0174	0.0231 0.0162	0.0199	0.0187	0.0175	Ave		0.0196				15.9		20.0			
PCB-1016 Peak 2	0.0345 0.0243	0.0316 0.0218	0.0276	0.0258	0.0242	Ave		0.0271				16.5		20.0			
PCB-1016 Peak 3	0.0316 0.0218	0.0287 0.0212	0.0254	0.0241	0.0231	Ave		0.0251				15.0		20.0			
PCB-1016 Peak 4	0.0271 0.0151	0.0239 0.0172	0.0208	0.0199	0.0188	Ave		0.0204				19.9		20.0			
PCB-1016 Peak 5	0.0165 0.0117	0.0152 0.0112	0.0133	0.0128	0.0121	Lin1	0.0001	0.0115							0.9980		0.9900
PCB-1260 Peak 1	0.0565 0.0400	0.0498 0.0354	0.0439	0.0419	0.0407	Ave		0.0440				15.9		20.0			
PCB-1260 Peak 2	0.0664 0.0490	0.0595 0.0442	0.0528	0.0504	0.0500	Ave		0.0532				14.0		20.0			
PCB-1260 Peak 3	0.0431 0.0338	0.0385 0.0308	0.0361	0.0356	0.0342	Ave		0.0360				10.8		20.0			
PCB-1260 Peak 4	0.0999 0.0793	0.0911 0.0745	0.0836	0.0820	0.0812	Ave		0.0845				10.0		20.0			
PCB-1260 Peak 5	0.0558 0.0434	0.0493 0.0406	0.0466	0.0447	0.0438	Ave		0.0463				10.8		20.0			
Tetrachloro-m-xylene	1.4548 1.1722	1.3172 1.1095	1.2001	1.1987	1.1545	Ave		1.2296				9.6		20.0			
DCB Decachlorobiphenyl (Surr)	1.0422 0.7686	0.9257 0.7240	0.8277	0.7874	0.7737	Ave		0.8356				13.3		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Pittsburgh Job No.: 180-78460-1 Analy Batch No.: 240288

SDG No.:

Instrument ID: CHGC16 GC Column: RTX-CLP1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/23/2018 11:38 Calibration End Date: 03/23/2018 13:43 Calibration ID: 37553

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 180-240288/5	03238009.D
Level 2	IC 180-240288/6	03238010.D
Level 3	IC 180-240288/7	03238011.D
Level 4	ICIS 180-240288/8	03238012.D
Level 5	IC 180-240288/9	03238013.D
Level 6	IC 180-240288/10	03238014.D
Level 7	IC 180-240288/11	03238015.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
PCB-1016 Peak 1	BNB	Ave	792561 100173788	3749514 189317976	12517211	28866885	52505605	0.0100 2.00	0.0500 4.00	0.200	0.500	1.00
PCB-1016 Peak 2	BNB	Ave	1116092 140032394	5120871 255404335	17350834	39838459	72667370	0.0100 2.00	0.0500 4.00	0.200	0.500	1.00
PCB-1016 Peak 3	BNB	Ave	1022357 125952933	4655102 248551009	15944434	37216265	69178791	0.0100 2.00	0.0500 4.00	0.200	0.500	1.00
PCB-1016 Peak 4	BNB	Ave	878855 87249408	3884300 201182001	13036137	30764642	56410038	0.0100 2.00	0.0500 4.00	0.200	0.500	1.00
PCB-1016 Peak 5	BNB	Lin1	534738 67246970	2466945 130932654	8362451	19741942	36332285	0.0100 2.00	0.0500 4.00	0.200	0.500	1.00
PCB-1260 Peak 1	PCB205	Ave	1276099 156808170	5490082 296560361	18713655	43727317	81333780	0.0100 2.00	0.0500 4.00	0.200	0.500	1.00
PCB-1260 Peak 2	PCB205	Ave	1499805 192159456	6564409 370385761	22475316	52653988	100016624	0.0100 2.00	0.0500 4.00	0.200	0.500	1.00
PCB-1260 Peak 3	PCB205	Ave	974018 132802886	4248467 258571678	15396233	37206598	68451592	0.0100 2.00	0.0500 4.00	0.200	0.500	1.00
PCB-1260 Peak 4	PCB205	Ave	2257747 311017791	10043504 624677054	35634184	85697159	162365744	0.0100 2.00	0.0500 4.00	0.200	0.500	1.00
PCB-1260 Peak 5	PCB205	Ave	1261722 170255665	5437419 340528446	19842200	46708537	87535552	0.0100 2.00	0.0500 4.00	0.200	0.500	1.00
Tetrachloro-m-xylene	BNB	Ave	2355331 338023404	10685260 649022953	37696712	92462725	173121219	0.000500 0.100	0.00250 0.200	0.0100	0.0250	0.0500
DCB Decachlorobiphenyl (Surr)	PCB205	Ave	1177464 150776604	5105435 303679255	17632809	41119928	77325352	0.000500 0.100	0.00250 0.200	0.0100	0.0250	0.0500

Curve Type Legend:

Ave = Average ISTD by Height
Lin1 = Linear 1/Conc ISTD by Height

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC16\20180323-21018.b\03238009.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 23-Mar-2018 11:38:56 ALS Bottle#: 5 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0021018-005
Operator ID: 402331 Instrument ID: CHGC16
Sublist: chrom-PCB_CHGC16*sub25

Method: \\ChromNA\Pittsburgh\ChromData\CHGC16\20180323-21018.b\PCB_CHGC16.m
Limit Group: GCS 8082A ICAL with IS
Last Update: 24-Mar-2018 12:56:16 Calib Date: 23-Mar-2018 13:43:53
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHGC16\20180323-21018.b\03238015.D

Column 1 : Restek CLP 1 (0.53 mm) Det: GC ECD1A
Column 2 : Restek CLP2 (0.53 mm) Det: GC ECD2B
Process Host: XAWRK020

First Level Reviewer: oravecj Date: 24-Mar-2018 07:43:40

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 1-Bromo-2-nitrobenzene							
1	2.759	2.761	-0.002	323793442H	0.1000	0.1000	
2	2.965	2.966	-0.001	391048772H	0.1000	0.1000	
$ 2 Tetrachloro-m-xylene							
1	3.389	3.391	-0.002	2355331H	0.000500	0.000592	
2	3.840	3.843	-0.003	2533251H	0.000500	0.000596	
						RPD = 0.81	
6 PCB-1016							
1	3.714	3.715	-0.001	792561H	0.0100	0.0125	
1	4.065	4.067	-0.002	1116092H	0.0100	0.0127	
1	4.745	4.747	-0.002	1022357H	0.0100	0.0126	
1	5.268	5.269	-0.001	878855H	0.0100	0.0133	
1	5.383	5.385	-0.002	534738H	0.0100	0.006215	
		Average of Peak Amounts =				0.0115	
2	4.909	4.909	0.000	1067111H	0.0100	0.0130	
2	5.259	5.261	-0.002	682929H	0.0100	0.009663	
2	5.943	5.944	-0.001	677077H	0.0100	0.0123	
2	6.550	6.552	-0.002	756331H	0.0100	0.0124	
2	6.772	6.771	0.001	652864H	0.0100	0.006685	
		Average of Peak Amounts =				0.0108	
						RPD = 6.02	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
9 PCB-1260							
1	7.188	7.189	-0.001	1276099H	0.0100	0.0128	
1	8.274	8.274	0.000	1499805H	0.0100	0.0125	
1	8.940	8.942	-0.002	974018H	0.0100	0.0120	
1	9.483	9.483	0.000	2257747H	0.0100	0.0118	
1	9.944	9.943	0.001	1261722H	0.0100	0.0121	
		Average of Peak Amounts =				0.0122	
2	8.989	8.989	0.000	1250037H	0.0100	0.0127	
2	9.968	9.968	0.000	1338288H	0.0100	0.0123	
2	10.579	10.578	0.001	1051363H	0.0100	0.0123	
2	10.954	10.953	0.001	2286928H	0.0100	0.0121	
2	11.485	11.485	0.000	1454768H	0.0100	0.0136	
		Average of Peak Amounts =				0.0126	
						RPD = 2.88	
* 16 PCB-205 (IS)							
1	10.976	10.975	0.001	225947296H	0.1000	0.1000	
2	12.318	12.318	0.000	211857117H	0.1000	0.1000	
$ 12 DCB Decachlorobiphenyl (Surr)							
1	11.569	11.569	0.000	1177464H	0.000500	0.000624	
2	13.035	13.035	0.000	2556184H	0.000500	0.000493	
						RPD = 23.37	

Reagents:

GCAR1660CALL1_00023	Amount Added:	1.00	Units: mL	
PCBINT_00007	Amount Added:	0.01	Units: mL	Run Reagent

Report Date: 24-Mar-2018 12:56:17 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC16\20180323-21018.b\03238009.D

Injection Date: 23-Mar-2018 11:38:56 Instrument ID: CHGC16

Lims ID: IC

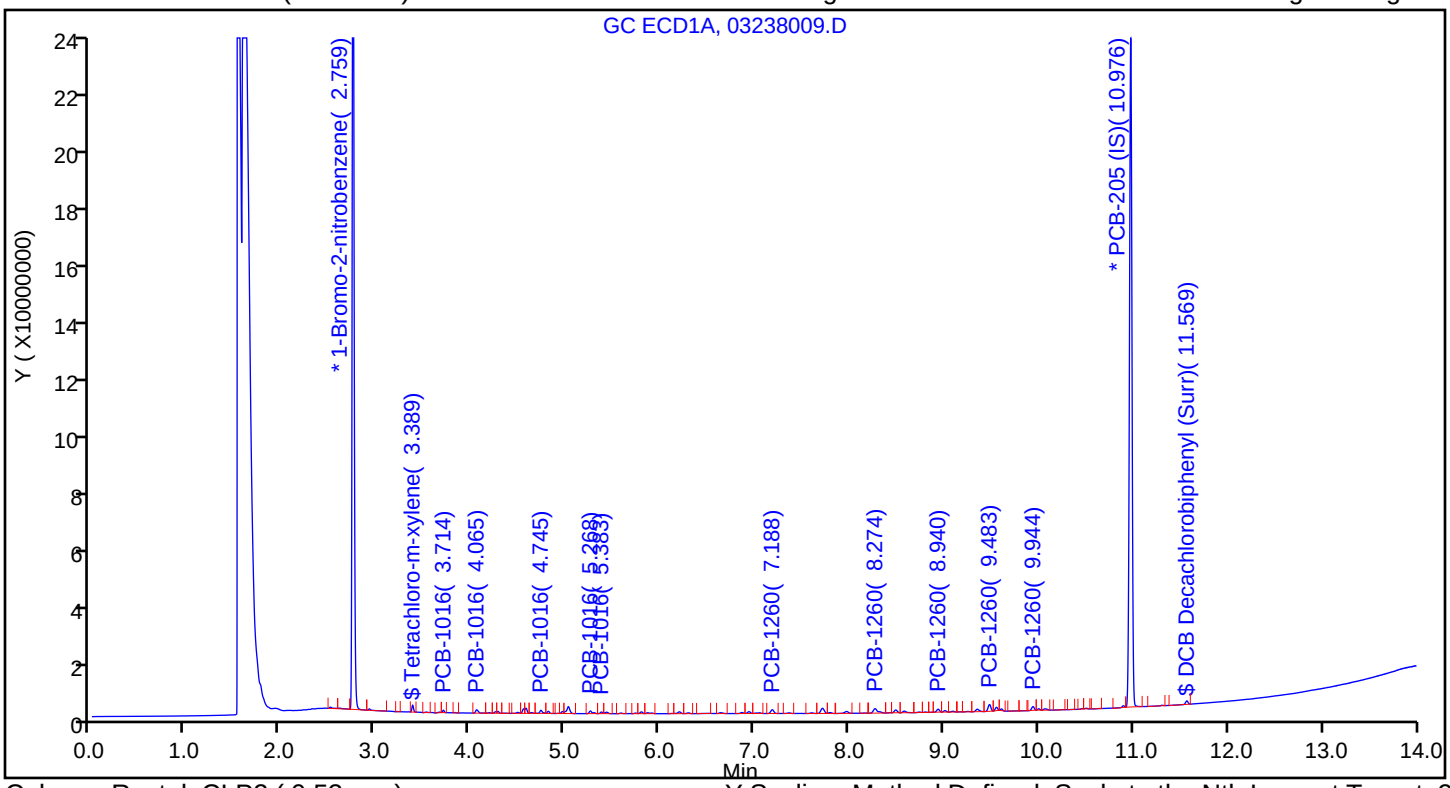
Client ID:

Operator ID: 402331 ALS Bottle#: 5 Worklist Smp#: 5

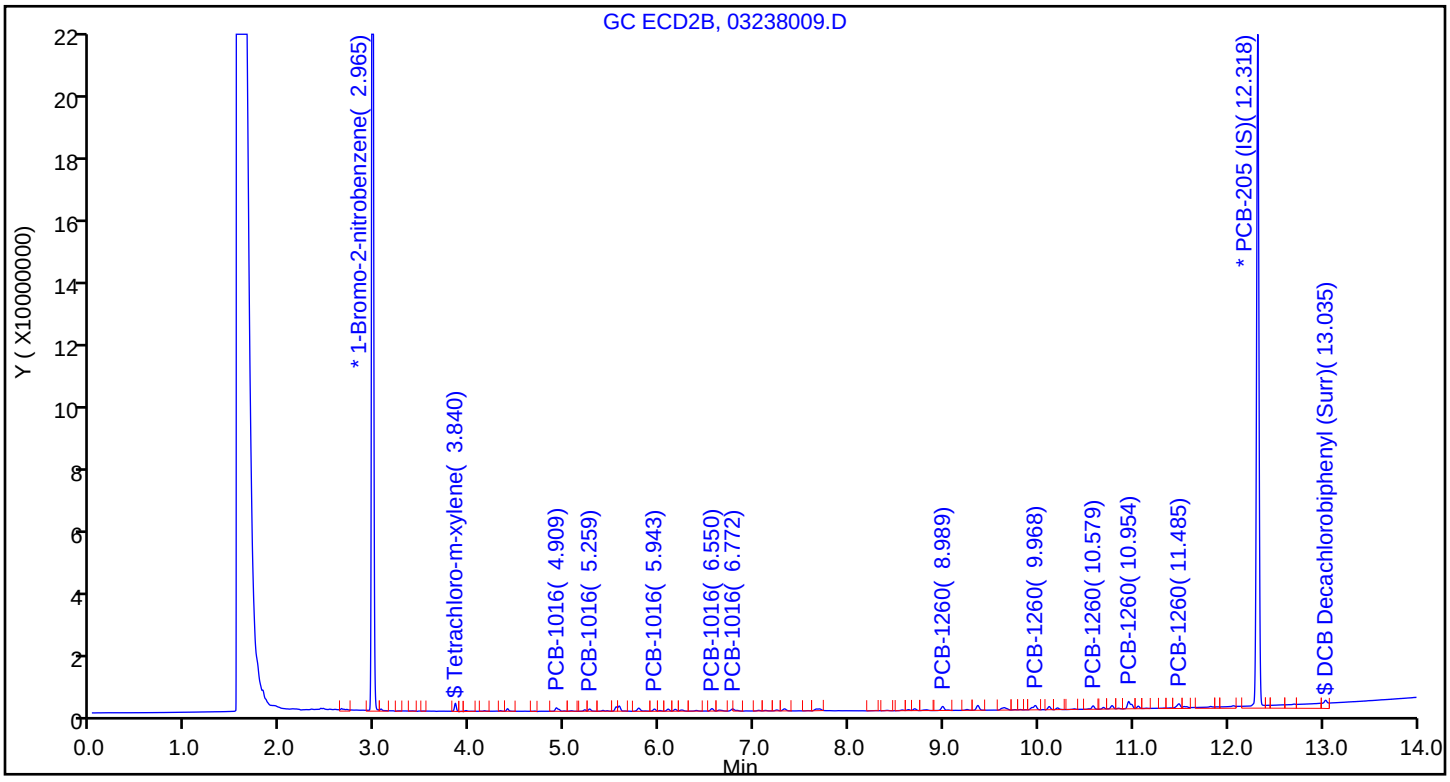
Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: PCB_CHGC16 Limit Group: GCS 8082A ICAL with IS

Column: Restek CLP 1 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Column: Restek CLP2 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC16\20180323-21018.b\03238010.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 23-Mar-2018 11:59:43 ALS Bottle#: 6 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0021018-006
Operator ID: 402331 Instrument ID: CHGC16
Sublist: chrom-PCB_CHGC16*sub25

Method: \\ChromNA\Pittsburgh\ChromData\CHGC16\20180323-21018.b\PCB_CHGC16.m
Limit Group: GCS 8082A ICAL with IS
Last Update: 24-Mar-2018 12:56:08 Calib Date: 23-Mar-2018 13:43:53
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHGC16\20180323-21018.b\03238015.D

Column 1 : Restek CLP 1 (0.53 mm) Det: GC ECD1A
Column 2 : Restek CLP2 (0.53 mm) Det: GC ECD2B
Process Host: XAWRK020

First Level Reviewer: oravecj Date: 24-Mar-2018 07:43:54

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 1-Bromo-2-nitrobenzene							
1	2.761	2.761	0.000	324483999H	0.1000	0.1000	
2	2.967	2.966	0.000	385949503H	0.1000	0.1000	
$ 2 Tetrachloro-m-xylene							
1	3.391	3.391	0.000	10685260H	0.002500	0.002678	
2	3.842	3.843	-0.001	11104918H	0.002500	0.002649	
						RPD = 1.09	
6 PCB-1016							
1	3.716	3.715	0.001	3749514H	0.0500	0.0589	
1	4.067	4.067	0.000	5120871H	0.0500	0.0582	
1	4.747	4.747	0.000	4655102H	0.0500	0.0571	
1	5.268	5.269	-0.001	3884300H	0.0500	0.0586	
1	5.386	5.385	0.001	2466945H	0.0500	0.0578	
		Average of Peak Amounts =				0.0581	
2	4.909	4.909	0.000	4736226H	0.0500	0.0583	
2	5.262	5.261	0.001	2594707H	0.0500	0.0575	
2	5.945	5.944	0.001	2965975H	0.0500	0.0544	
2	6.553	6.552	0.001	3405119H	0.0500	0.0564	
2	6.772	6.771	0.001	2888765H	0.0500	0.0562	
		Average of Peak Amounts =				0.0566	
						RPD = 2.74	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
9 PCB-1260							
1	7.190	7.189	0.001	5490082H	0.0500	0.0566	
1	8.274	8.274	0.000	6564409H	0.0500	0.0560	
1	8.941	8.942	-0.001	4248467H	0.0500	0.0534	
1	9.484	9.483	0.001	10043504H	0.0500	0.0539	
1	9.942	9.943	-0.001	5437419H	0.0500	0.0532	
		Average of Peak Amounts =				0.0546	
2	8.990	8.989	0.001	5350506H	0.0500	0.0548	
2	9.967	9.968	-0.001	5807604H	0.0500	0.0540	
2	10.578	10.578	0.000	4584273H	0.0500	0.0540	
2	10.953	10.953	0.000	9798725H	0.0500	0.0522	
2	11.484	11.485	-0.001	5664933H	0.0500	0.0535	
		Average of Peak Amounts =				0.0537	
						RPD = 1.70	
* 16 PCB-205 (IS)							
1	10.975	10.975	0.000	220605000H	0.1000	0.1000	
2	12.317	12.318	0.000	209889262H	0.1000	0.1000	
$ 12 DCB Decachlorobiphenyl (Surr)							
1	11.568	11.569	-0.001	5105435H	0.002500	0.002770	
2	13.035	13.035	0.000	5764648H	0.002500	0.002658	
						RPD = 4.13	

Reagents:

GCAR1660CALL2_00017	Amount Added:	1.00	Units: mL	
PCBINT_00007	Amount Added:	0.01	Units: mL	Run Reagent

Report Date: 24-Mar-2018 12:56:10 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC16\20180323-21018.b\03238010.D

Injection Date: 23-Mar-2018 11:59:43 Instrument ID: CHGC16

Lims ID: IC

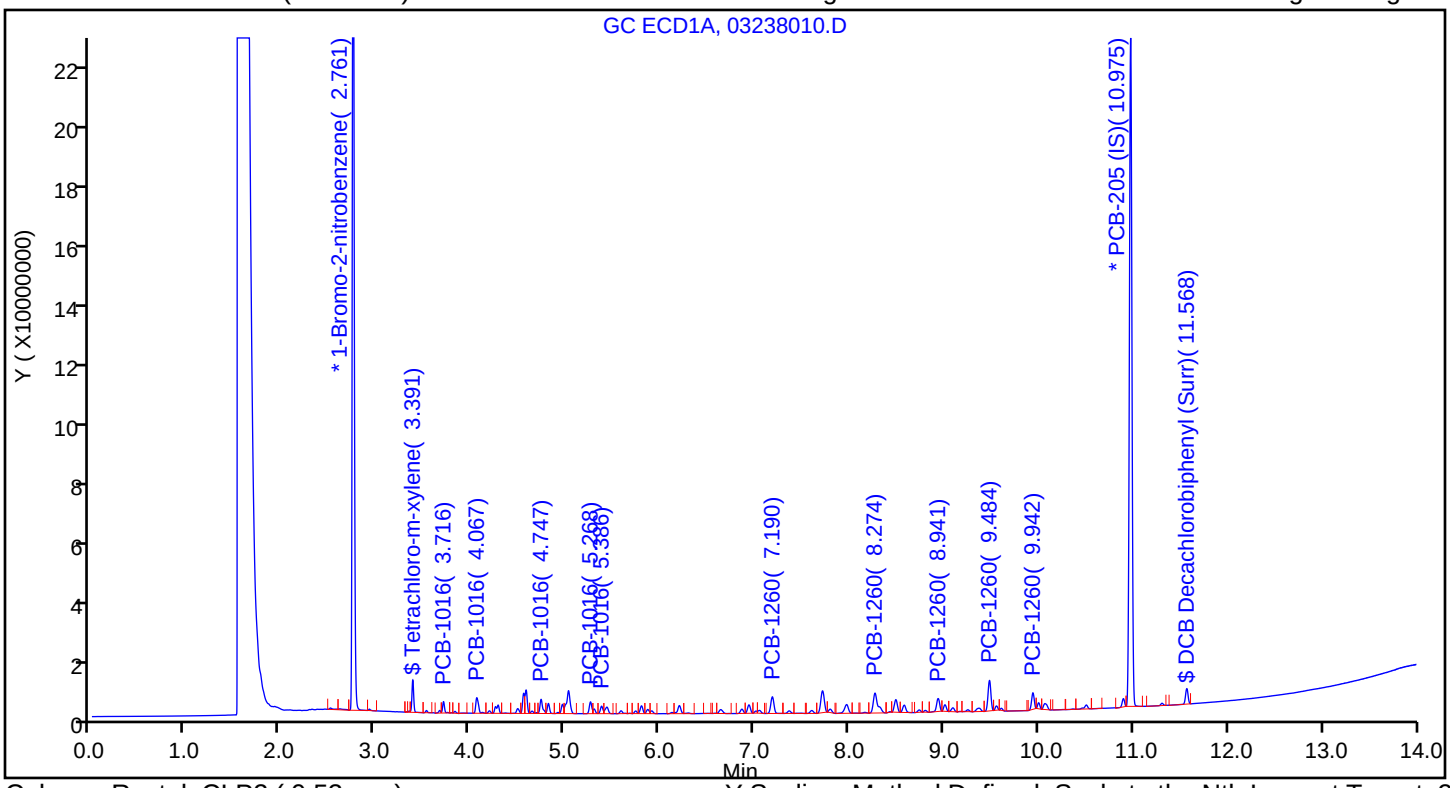
Client ID:

Operator ID: 402331 ALS Bottle#: 6 Worklist Smp#: 6

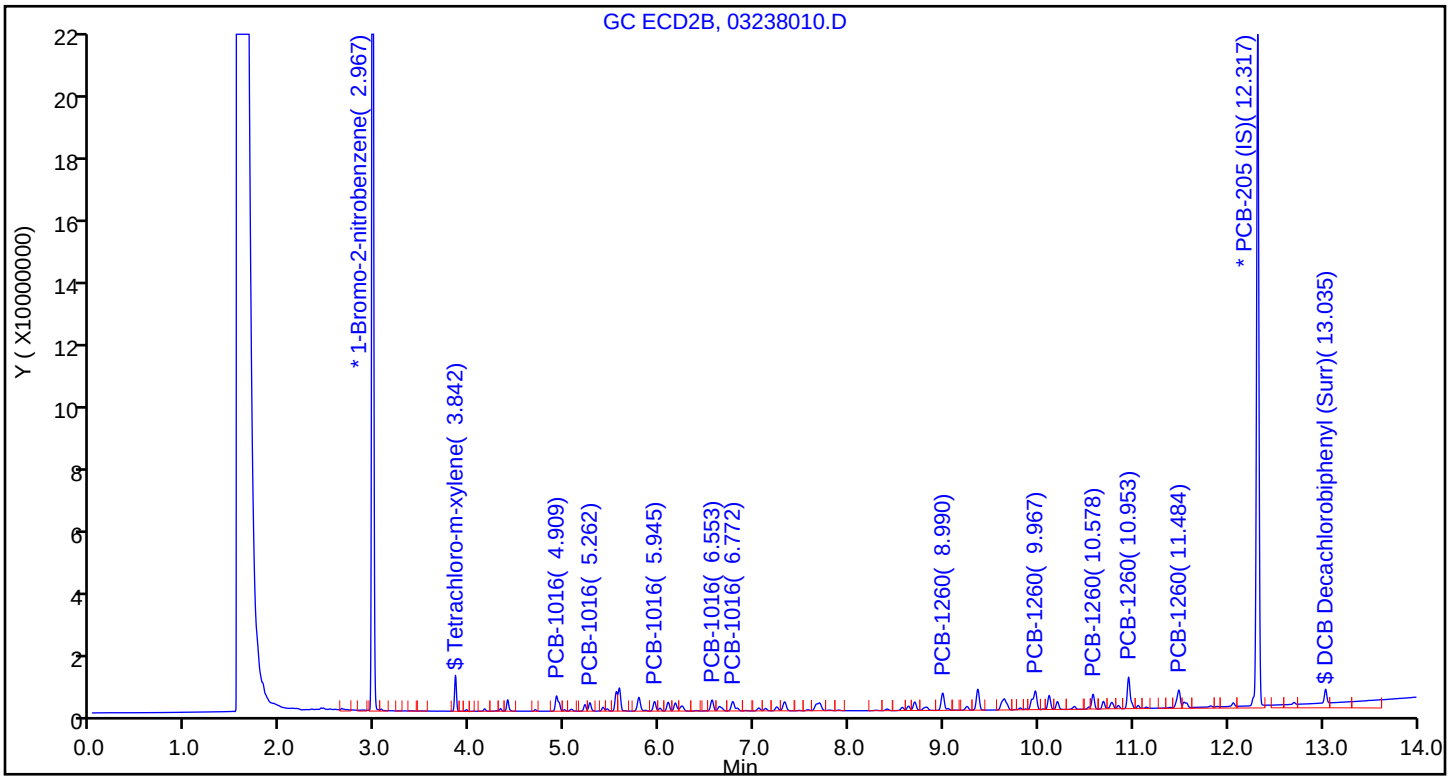
Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: PCB_CHGC16 Limit Group: GCS 8082A ICAL with IS

Column: Restek CLP 1 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Column: Restek CLP2 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC16\20180323-21018.b\03238011.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 23-Mar-2018 12:20:27 ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0021018-007
Operator ID: 402331 Instrument ID: CHGC16
Sublist: chrom-PCB_CHGC16*sub25

Method: \\ChromNA\Pittsburgh\ChromData\CHGC16\20180323-21018.b\PCB_CHGC16.m
Limit Group: GCS 8082A ICAL with IS
Last Update: 24-Mar-2018 12:55:56 Calib Date: 23-Mar-2018 13:43:53
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHGC16\20180323-21018.b\03238015.D

Column 1 : Restek CLP 1 (0.53 mm) Det: GC ECD1A
Column 2 : Restek CLP2 (0.53 mm) Det: GC ECD2B
Process Host: XAWRK020

First Level Reviewer: oravecj Date: 24-Mar-2018 07:41:26

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 1-Bromo-2-nitrobenzene							
1	2.761	2.761	0.000	314117816H	0.1000	0.1000	
2	2.967	2.966	0.001	367826894H	0.1000	0.1000	
$ 2 Tetrachloro-m-xylene							
1	3.391	3.391	0.000	37696712H	0.0100	0.009760	
2	3.843	3.843	0.000	38743197H	0.0100	0.009697	
						RPD = 0.64	
6 PCB-1016							
1	3.715	3.715	0.000	12517211H	0.2000	0.2032	
1	4.067	4.067	0.000	17350834H	0.2000	0.2037	
1	4.746	4.747	-0.001	15944434H	0.2000	0.2020	
1	5.269	5.269	0.000	13036137H	0.2000	0.2033	
1	5.386	5.385	0.001	8362451H	0.2000	0.2226	
		Average of Peak Amounts =				0.2070	
2	4.910	4.909	0.001	15886134H	0.2000	0.2051	
2	5.262	5.261	0.001	8565453H	0.2000	0.2167	
2	5.945	5.944	0.001	10523583H	0.2000	0.2025	
2	6.553	6.552	0.001	11672143H	0.2000	0.2027	
2	6.772	6.771	0.001	9943864H	0.2000	0.2228	
		Average of Peak Amounts =				0.2100	
						RPD = 1.45	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
9 PCB-1260							
1	7.189	7.189	0.000	18713655H	0.2000	0.1996	
1	8.274	8.274	0.000	22475316H	0.2000	0.1984	
1	8.941	8.942	-0.001	15396233H	0.2000	0.2005	
1	9.484	9.483	0.001	35634184H	0.2000	0.1979	
1	9.943	9.943	0.000	19842200H	0.2000	0.2011	
		Average of Peak Amounts =				0.1995	
2	8.989	8.989	0.000	18252863H	0.2000	0.1978	
2	9.968	9.968	0.000	19787163H	0.2000	0.1946	
2	10.579	10.578	0.001	16039542H	0.2000	0.1997	
2	10.953	10.953	0.000	33608070H	0.2000	0.1893	
2	11.486	11.485	0.001	18946782H	0.2000	0.1894	
		Average of Peak Amounts =				0.1942	
						RPD = 2.72	
* 16 PCB-205 (IS)							
1	10.975	10.975	0.000	213027544H	0.1000	0.1000	
2	12.319	12.318	0.001	198374497H	0.1000	0.1000	
$ 12 DCB Decachlorobiphenyl (Surr)							
1	11.568	11.569	-0.001	17632809H	0.0100	0.0099	
2	13.035	13.035	0.000	16308787H	0.0100	0.0104	
						RPD = 4.41	

Reagents:

GCAR1660CALL3_00016	Amount Added:	1.00	Units: mL	
PCBINT_00007	Amount Added:	0.01	Units: mL	Run Reagent

Report Date: 24-Mar-2018 12:55:59 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC16\20180323-21018.b\03238011.D

Injection Date: 23-Mar-2018 12:20:27 Instrument ID: CHGC16

Lims ID: IC

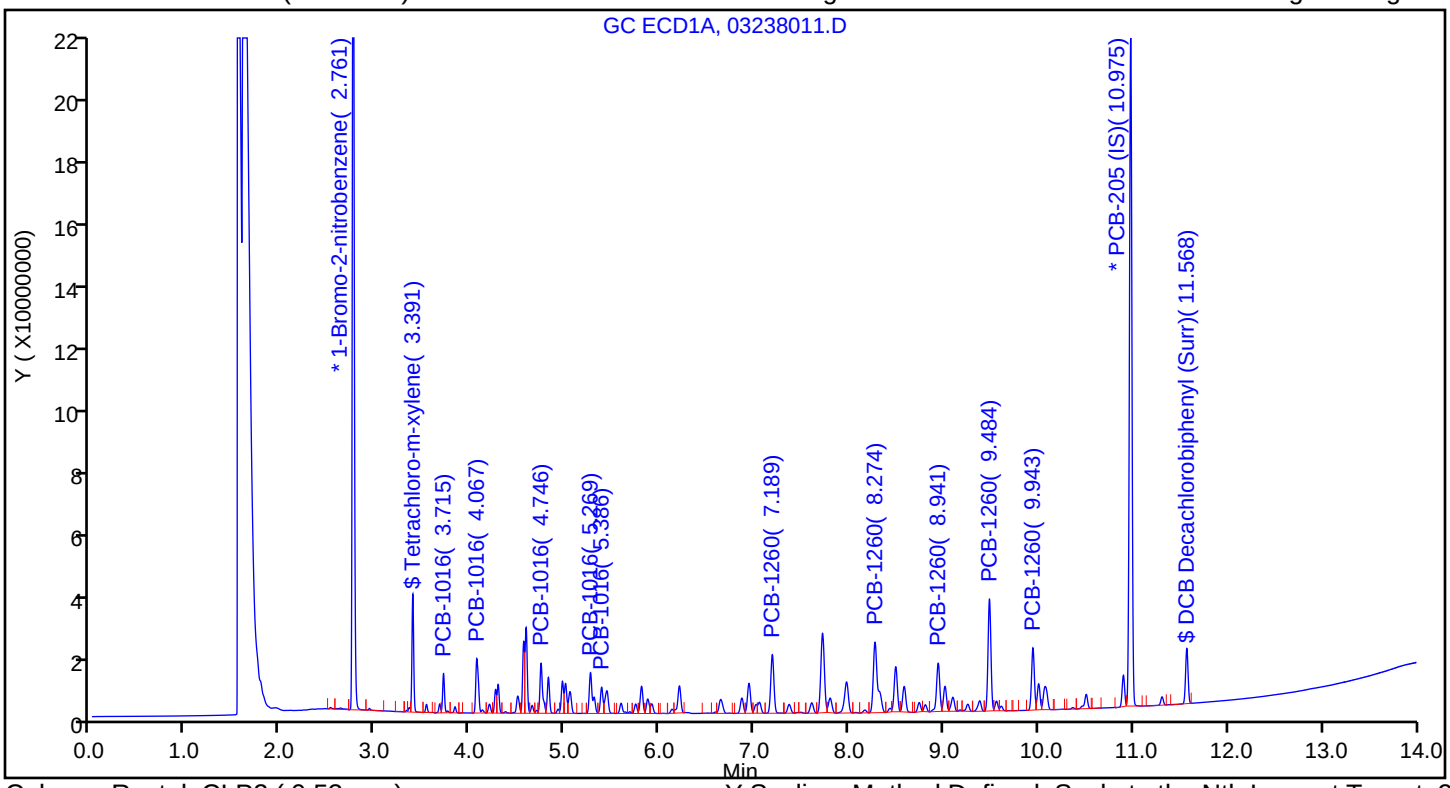
Client ID:

Operator ID: 402331 ALS Bottle#: 7 Worklist Smp#: 7

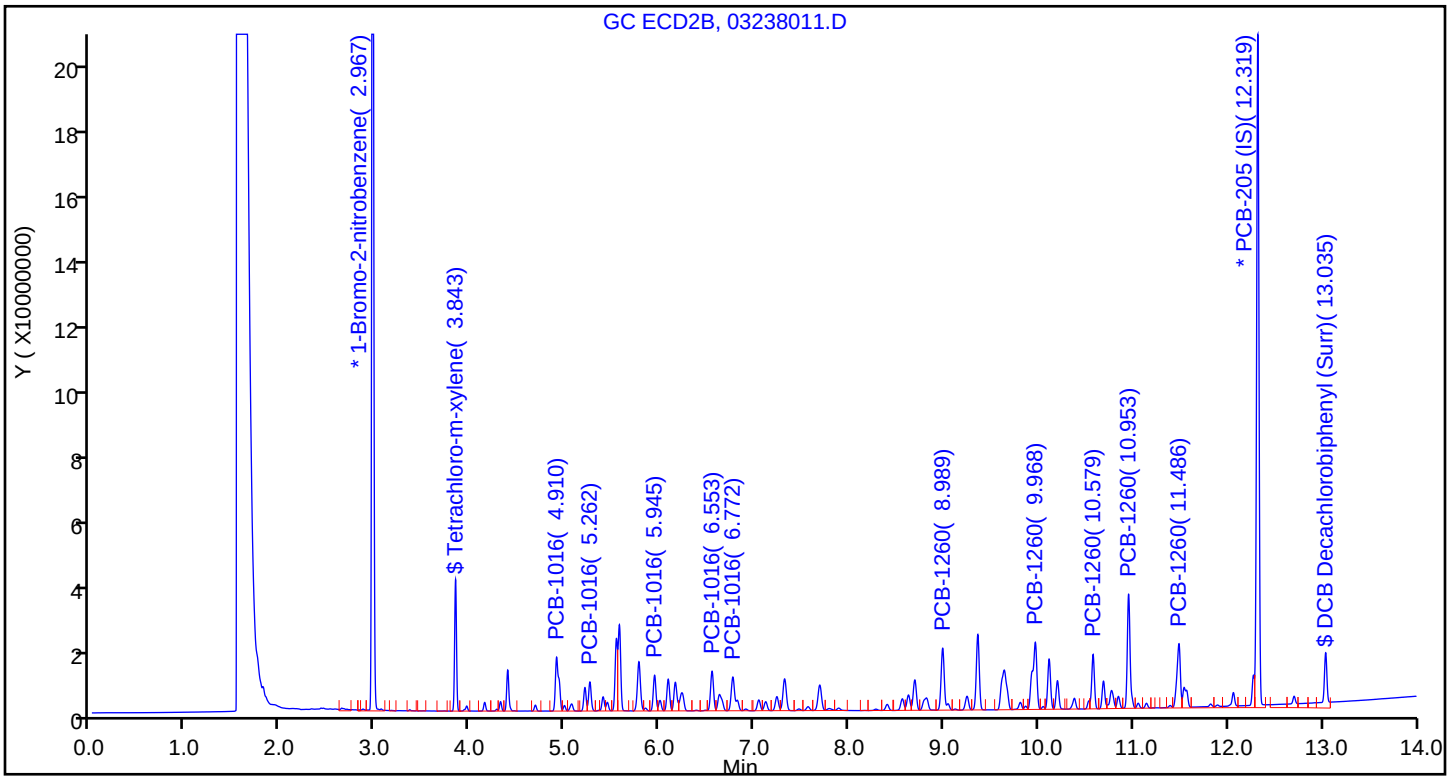
Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: PCB_CHGC16 Limit Group: GCS 8082A ICAL with IS

Column: Restek CLP 1 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Column: Restek CLP2 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC16\20180323-21018.b\03238012.D
Lims ID: ICIS
Client ID:
Sample Type: ICIS Calib Level: 4
Inject. Date: 23-Mar-2018 12:41:24 ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0021018-008
Operator ID: 402331 Instrument ID: CHGC16
Sublist: chrom-PCB_CHGC16*sub25

Method: \\ChromNA\Pittsburgh\ChromData\CHGC16\20180323-21018.b\PCB_CHGC16.m
Limit Group: GCS 8082A ICAL with IS
Last Update: 24-Mar-2018 12:55:49 Calib Date: 23-Mar-2018 13:43:53
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHGC16\20180323-21018.b\03238015.D

Column 1 : Restek CLP 1 (0.53 mm) Det: GC ECD1A
Column 2 : Restek CLP2 (0.53 mm) Det: GC ECD2B
Process Host: XAWRK020

First Level Reviewer: oravecj Date: 24-Mar-2018 07:40:22

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 1-Bromo-2-nitrobenzene							
1	2.761	2.761	0.000	308534619H	0.1000	0.1000	
2	2.966	2.966	0.000	360734202H	0.1000	0.1000	
$ 2 Tetrachloro-m-xylene							
1	3.391	3.391	0.000	92462725H	0.0250	0.0244	
2	3.843	3.843	0.000	94332760H	0.0250	0.0241	
						RPD = 1.23	
6 PCB-1016							
1	3.715	3.715	0.000	28866885H	0.5000	0.4771	
1	4.067	4.067	0.000	39838459H	0.5000	0.4762	
1	4.747	4.747	0.000	37216265H	0.5000	0.4800	
1	5.269	5.269	0.000	30764642H	0.5000	0.4884	
1	5.385	5.385	0.000	19741942H	0.5000	0.5465	
		Average of Peak Amounts =				0.4936	
2	4.909	4.909	0.000	36275528H	0.5000	0.4776	
2	5.261	5.261	0.000	19574714H	0.5000	0.5144	
2	5.944	5.944	0.000	24513649H	0.5000	0.4810	
2	6.552	6.552	0.000	27350284H	0.5000	0.4843	
2	6.771	6.771	0.000	23098554H	0.5000	0.5381	
		Average of Peak Amounts =				0.4991	
						RPD = 1.10	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
9 PCB-1260							
1	7.189	7.189	0.000	43727317H	0.5000	0.4757	
1	8.274	8.274	0.000	52653988H	0.5000	0.4740	
1	8.942	8.942	0.000	37206598H	0.5000	0.4942	
1	9.483	9.483	0.000	85697159H	0.5000	0.4854	
1	9.943	9.943	0.000	46708537H	0.5000	0.4828	
		Average of Peak Amounts =				0.4824	
2	8.989	8.989	0.000	42328404H	0.5000	0.4640	
2	9.968	9.968	0.000	47263585H	0.5000	0.4704	
2	10.578	10.578	0.000	37235922H	0.5000	0.4691	
2	10.953	10.953	0.000	81734292H	0.5000	0.4657	
2	11.485	11.485	0.000	44365491H	0.5000	0.4488	
		Average of Peak Amounts =				0.4636	
						RPD = 3.98	
* 16 PCB-205 (IS)							
1	10.975	10.975	0.000	208899700H	0.1000	0.1000	
2	12.318	12.318	0.000	196071586H	0.1000	0.1000	
$ 12 DCB Decachlorobiphenyl (Surr)							
1	11.569	11.569	0.000	41119928H	0.0250	0.0236	
2	13.035	13.035	0.000	36000076H	0.0250	0.0246	
						RPD = 4.35	

Reagents:

GCAR1660CALL4_00016	Amount Added:	1.00	Units: mL	
PCBINT_00007	Amount Added:	0.01	Units: mL	Run Reagent

Report Date: 24-Mar-2018 12:55:51 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC16\20180323-21018.b\03238012.D

Injection Date: 23-Mar-2018 12:41:24 Instrument ID: CHGC16

Lims ID: ICIS

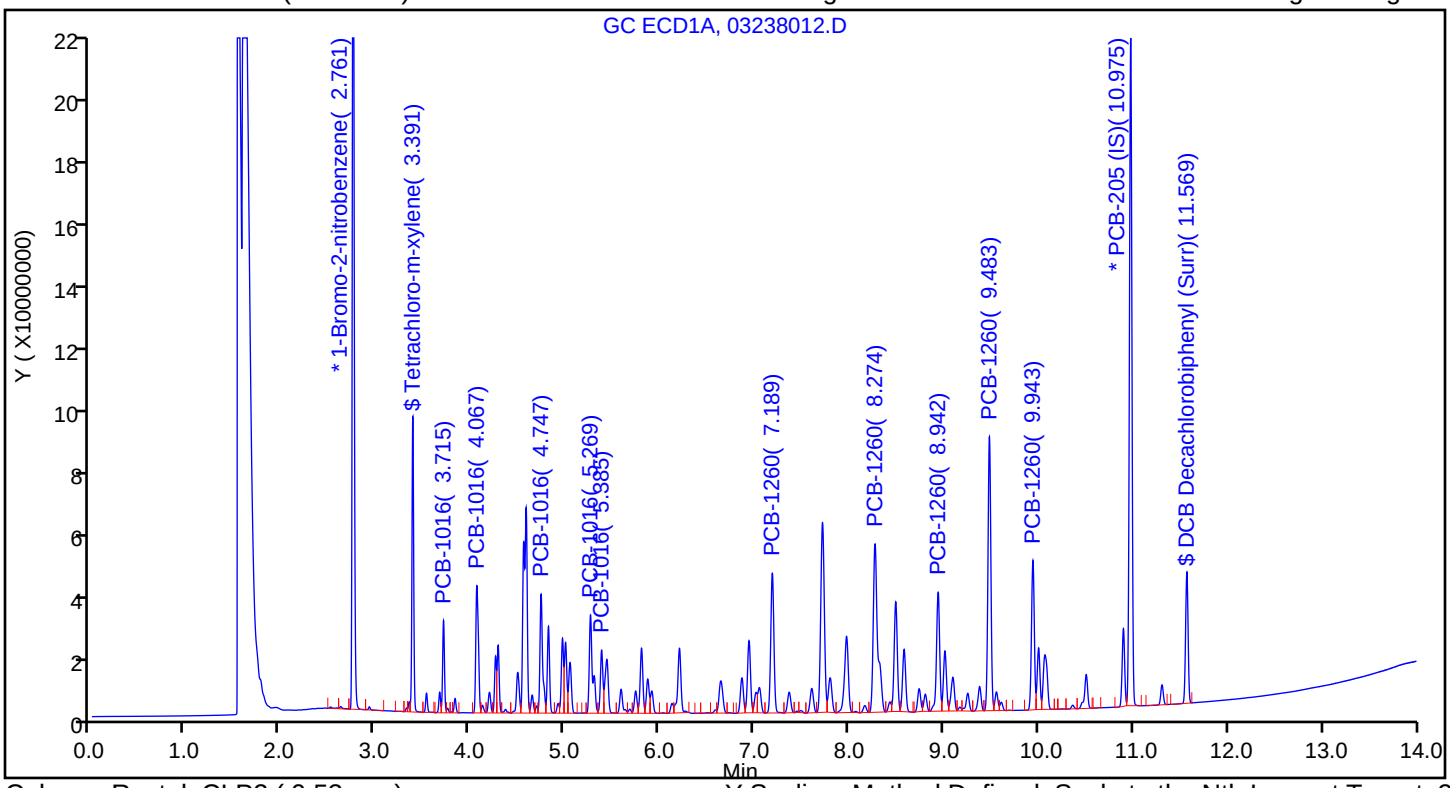
Client ID:

Operator ID: 402331 ALS Bottle#: 8 Worklist Smp#: 8

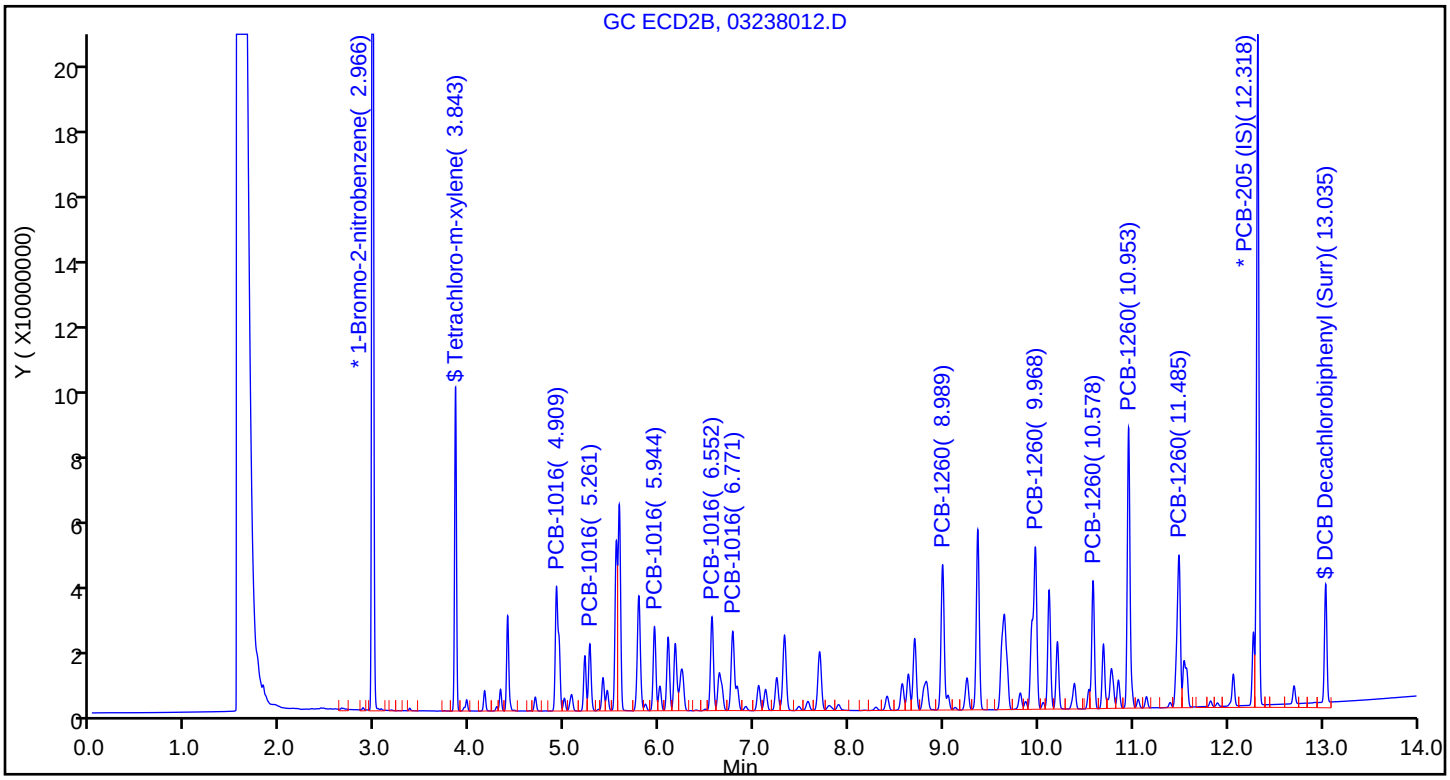
Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: PCB_CHGC16 Limit Group: GCS 8082A ICAL with IS

Column: Restek CLP 1 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Column: Restek CLP2 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC16\20180323-21018.b\03238013.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 23-Mar-2018 13:02:12 ALS Bottle#: 9 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0021018-009
Operator ID: 402331 Instrument ID: CHGC16
Sublist: chrom-PCB_CHGC16*sub25

Method: \\ChromNA\Pittsburgh\ChromData\CHGC16\20180323-21018.b\PCB_CHGC16.m
Limit Group: GCS 8082A ICAL with IS
Last Update: 24-Mar-2018 12:55:42 Calib Date: 23-Mar-2018 13:43:53
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHGC16\20180323-21018.b\03238015.D

Column 1 : Restek CLP 1 (0.53 mm) Det: GC ECD1A
Column 2 : Restek CLP2 (0.53 mm) Det: GC ECD2B
Process Host: XAWRK020

First Level Reviewer: oravecj Date: 24-Mar-2018 07:47:24

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 1-Bromo-2-nitrobenzene							
1	2.761	2.761	0.000	299913114H	0.1000	0.1000	
2	2.967	2.966	0.000	353880146H	0.1000	0.1000	
$ 2 Tetrachloro-m-xylene							
1	3.391	3.391	0.000	173121219H	0.0500	0.0469	
2	3.842	3.843	-0.001	178745325H	0.0500	0.0465	
						RPD = 0.95	
6 PCB-1016							
1	3.716	3.715	0.001	52505605H	1.00	0.8927	
1	4.067	4.067	0.000	72667370H	1.00	0.8935	
1	4.747	4.747	0.000	69178791H	1.00	0.9178	
1	5.268	5.269	-0.001	56410038H	1.00	0.9213	
1	5.387	5.385	0.002	36332285H	1.00	1.04	
		Average of Peak Amounts =				0.9334	
2	4.910	4.909	0.001	66097336H	1.00	0.8870	
2	5.262	5.261	0.001	35504748H	1.00	0.9572	
2	5.946	5.944	0.002	46013215H	1.00	0.9204	
2	6.553	6.552	0.001	50509106H	1.00	0.9117	
2	6.772	6.771	0.001	43046792H	1.00	1.03	
		Average of Peak Amounts =				0.9411	
						RPD = 0.81	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
9 PCB-1260							
1	7.189	7.189	0.000	81333780H	1.00	0.9246	
1	8.274	8.274	0.000	100016624H	1.00	0.9410	
1	8.942	8.942	0.000	68451592H	1.00	0.9501	
1	9.483	9.483	0.000	162365744H	1.00	0.9610	
1	9.942	9.943	-0.001	87535552H	1.00	0.9455	
		Average of Peak Amounts =				0.9444	
2	8.989	8.989	0.000	80482929H	1.00	0.9402	
2	9.968	9.968	0.000	89321855H	1.00	0.9474	
2	10.578	10.578	0.000	69877516H	1.00	0.9382	
2	10.954	10.953	0.001	158768027H	1.00	0.9640	
2	11.486	11.485	0.001	84964275H	1.00	0.9159	
		Average of Peak Amounts =				0.9411	
						RPD = 0.35	
* 16 PCB-205 (IS)							
1	10.975	10.975	0.000	199894867H	0.1000	0.1000	
2	12.318	12.318	0.000	183984923H	0.1000	0.1000	
$ 12 DCB Decachlorobiphenyl (Surr)							
1	11.568	11.569	-0.001	77325352H	0.0500	0.0463	
2	13.036	13.035	0.001	65770612H	0.0500	0.0490	
						RPD = 5.77	

Reagents:

GCAR1660CALL5_00017	Amount Added:	1.00	Units: mL	
PCBINT_00007	Amount Added:	0.01	Units: mL	Run Reagent

Report Date: 24-Mar-2018 12:55:45 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC16\20180323-21018.b\03238013.D

Injection Date: 23-Mar-2018 13:02:12 Instrument ID: CHGC16

Lims ID: IC

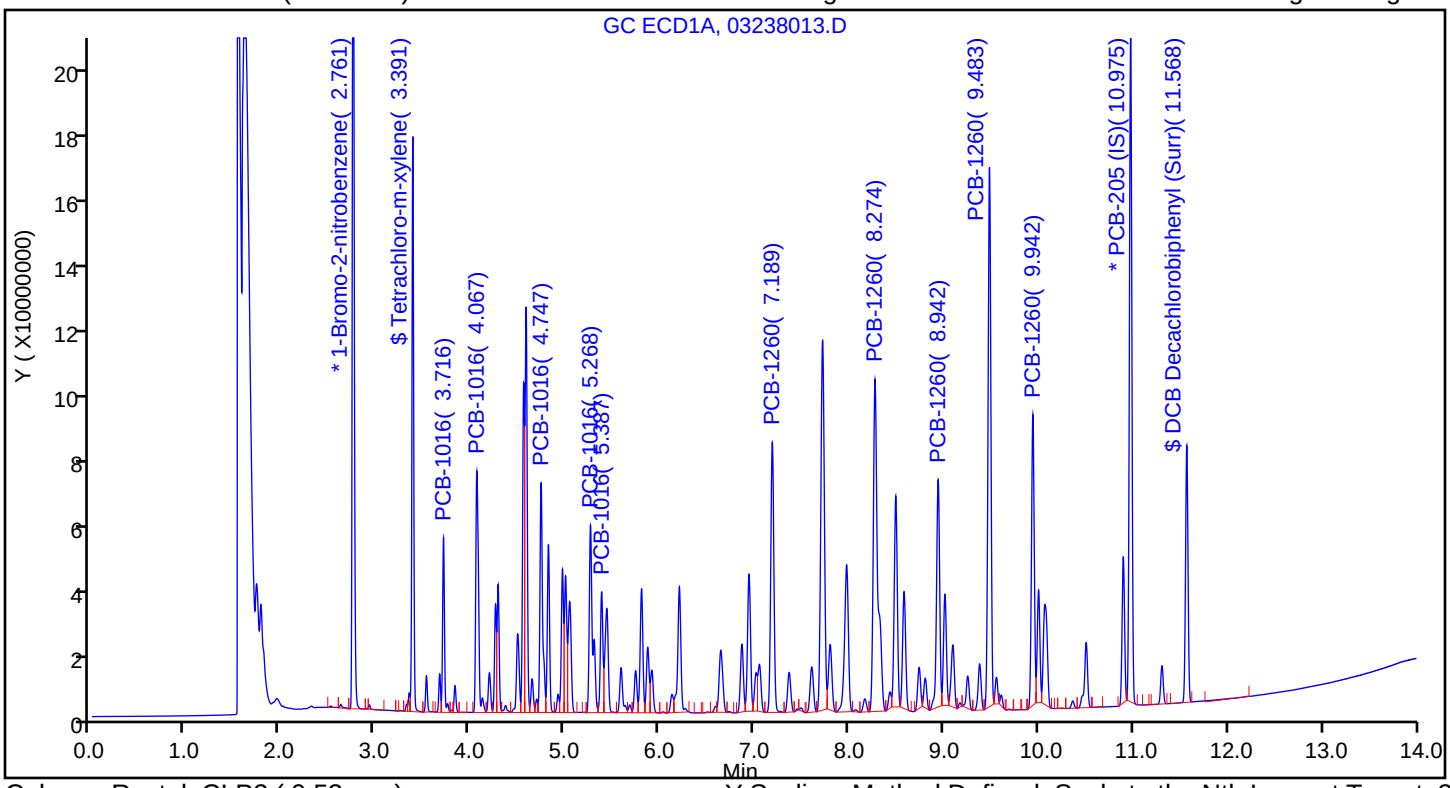
Client ID:

Operator ID: 402331 ALS Bottle#: 9 Worklist Smp#: 9

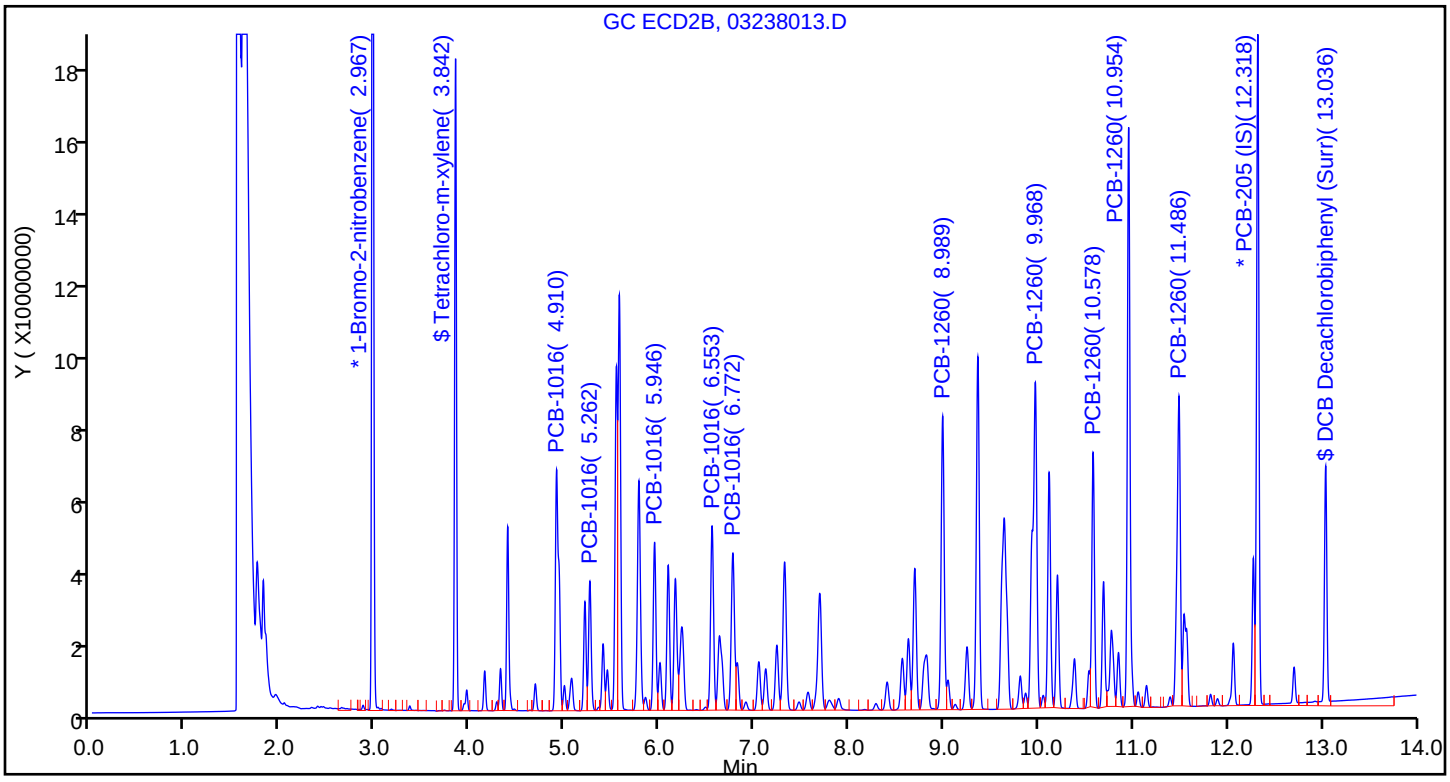
Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: PCB_CHGC16 Limit Group: GCS 8082A ICAL with IS

Column: Restek CLP 1 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Column: Restek CLP2 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC16\20180323-21018.b\03238014.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 23-Mar-2018 13:23:00 ALS Bottle#: 10 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0021018-010
Operator ID: 402331 Instrument ID: CHGC16
Sublist: chrom-PCB_CHGC16*sub25

Method: \\ChromNA\Pittsburgh\ChromData\CHGC16\20180323-21018.b\PCB_CHGC16.m
Limit Group: GCS 8082A ICAL with IS
Last Update: 24-Mar-2018 12:55:32 Calib Date: 23-Mar-2018 13:43:53
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHGC16\20180323-21018.b\03238015.D

Column 1 : Restek CLP 1 (0.53 mm) Det: GC ECD1A
Column 2 : Restek CLP2 (0.53 mm) Det: GC ECD2B
Process Host: XAWRK020

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 1-Bromo-2-nitrobenzene							
1	2.761	2.761	0.000	288360103H	0.1000	0.1000	
2	2.967	2.966	0.001	340665869H	0.1000	0.1000	
$ 2 Tetrachloro-m-xylene							
1	3.391	3.391	0.000	338023404H	0.1000	0.0953	
2	3.843	3.843	0.000	355659911H	0.1000	0.0961	
						RPD = 0.82	
6 PCB-1016							
1	3.715	3.715	0.000	100173788H	2.00	1.77	
1	4.068	4.067	0.001	140032394H	2.00	1.79	
1	4.747	4.747	0.000	125952933H	2.00	1.74	
1	5.269	5.269	0.000	87249408H	2.00	1.48	
1	5.386	5.385	0.001	67246970H	2.00	2.01	
		Average of Peak Amounts =				1.76	
2	4.909	4.909	0.000	125643960H	2.00	1.75	
2	5.260	5.261	-0.001	67713013H	2.00	1.90	
2	5.944	5.944	0.000	88142871H	2.00	1.83	
2	6.551	6.552	-0.001	96520237H	2.00	1.81	
2	6.771	6.771	0.000	81930806H	2.00	2.04	
		Average of Peak Amounts =				1.87	
						RPD = 5.99	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
9 PCB-1260							
1	7.189	7.189	0.000	156808170H	2.00	1.82	
1	8.274	8.274	0.000	192159456H	2.00	1.84	
1	8.941	8.942	-0.001	132802886H	2.00	1.88	
1	9.483	9.483	0.000	311017791H	2.00	1.88	
1	9.943	9.943	0.000	170255665H	2.00	1.87	
		Average of Peak Amounts =				1.86	
2	8.988	8.989	-0.001	158288956H	2.00	1.84	
2	9.968	9.968	0.000	177515525H	2.00	1.87	
2	10.578	10.578	0.000	138602068H	2.00	1.85	
2	10.953	10.953	0.000	320211878H	2.00	1.93	
2	11.485	11.485	0.000	172726915H	2.00	1.85	
		Average of Peak Amounts =				1.87	
						RPD = 0.52	
* 16 PCB-205 (IS)							
1	10.975	10.975	0.000	196171859H	0.1000	0.1000	
2	12.318	12.318	0.000	185250781H	0.1000	0.1000	
$ 12 DCB Decachlorobiphenyl (Surr)							
1	11.567	11.569	-0.002	150776604H	0.1000	0.0920	
2	13.035	13.035	0.000	131126538H	0.1000	0.0983	
						RPD = 6.63	

Reagents:

GCAR1660CALL6_00015	Amount Added:	1.00	Units: mL	
PCBINT_00007	Amount Added:	0.01	Units: mL	Run Reagent

Report Date: 24-Mar-2018 12:55:36 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC16\20180323-21018.b\03238014.D

Injection Date: 23-Mar-2018 13:23:00 Instrument ID: CHGC16

Lims ID: IC

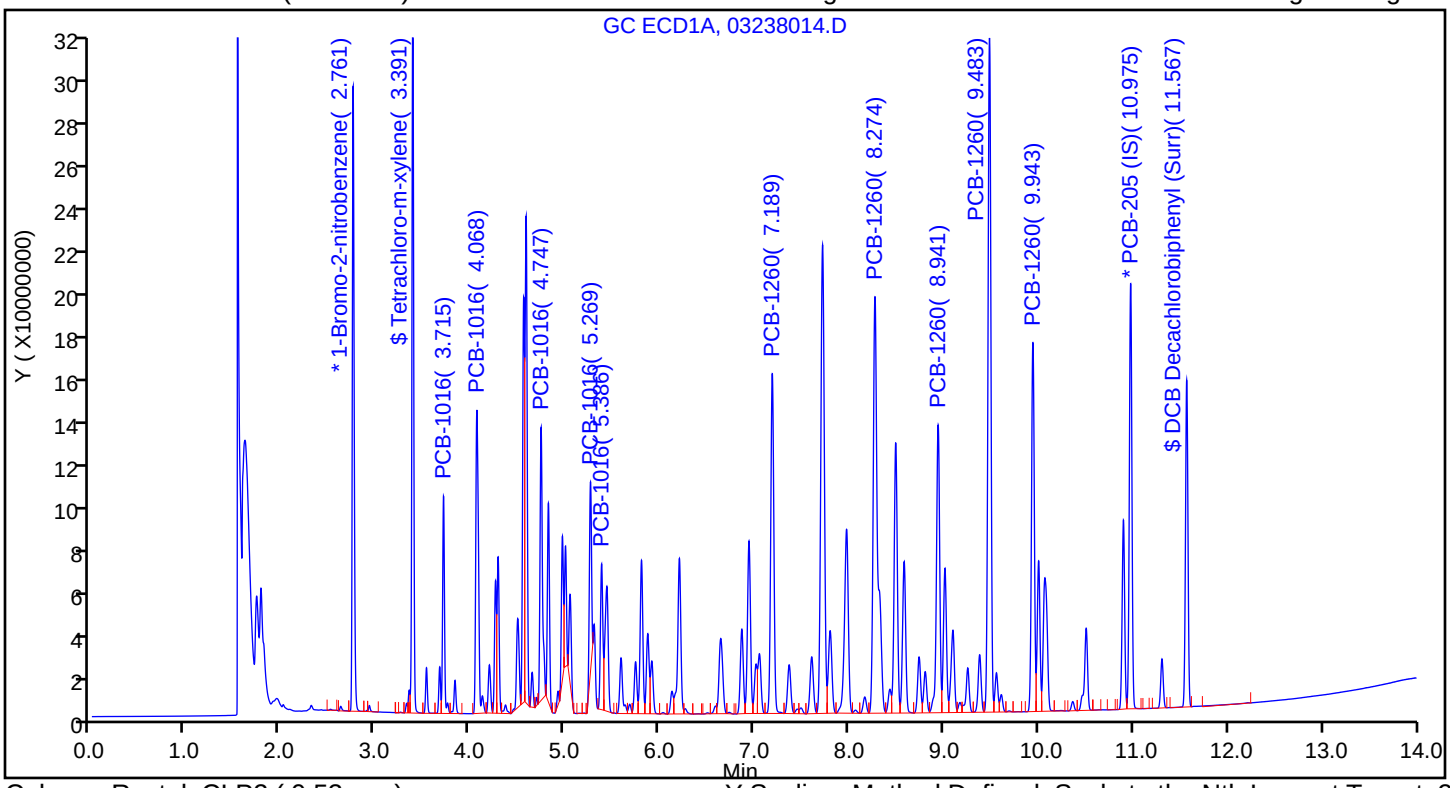
Client ID:

Operator ID: 402331 ALS Bottle#: 10 Worklist Smp#: 10

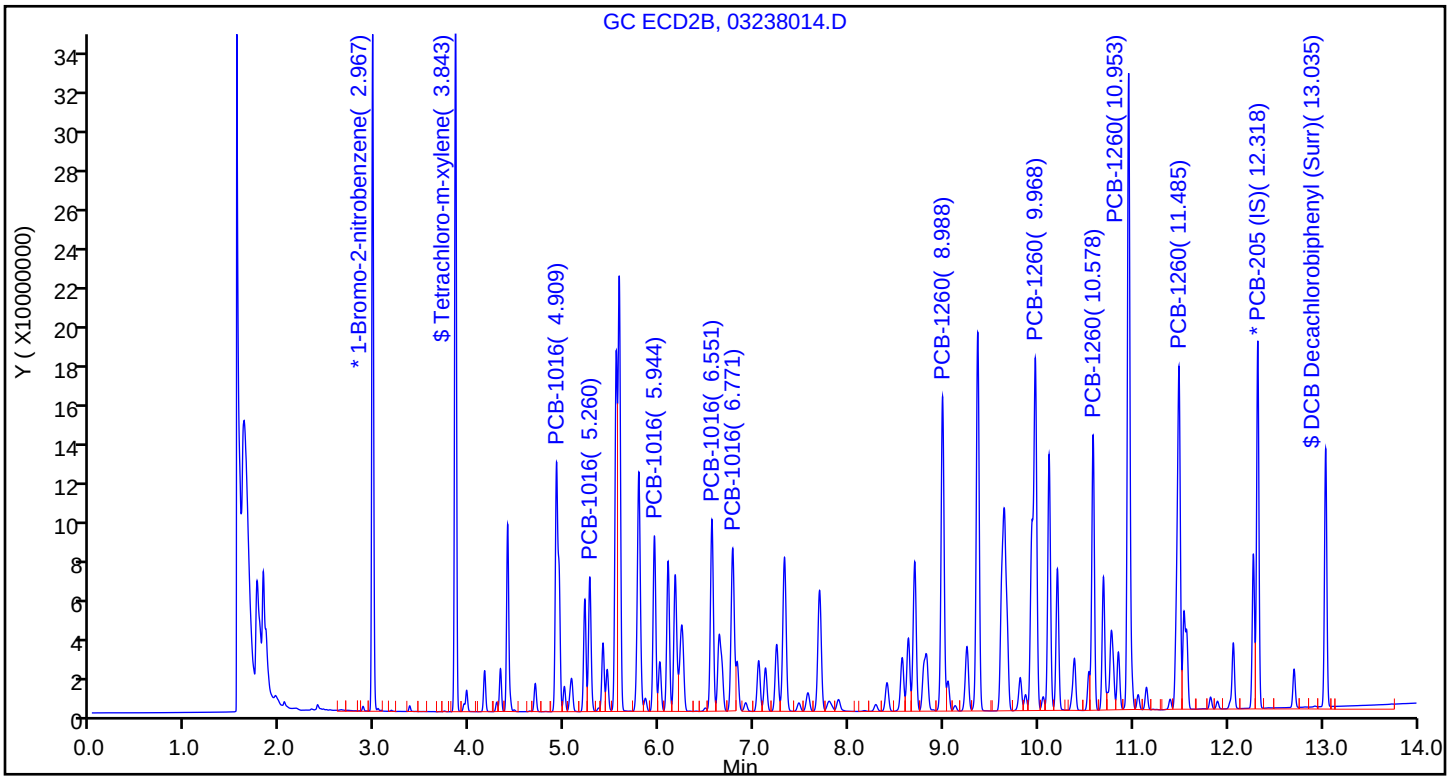
Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: PCB_CHGC16 Limit Group: GCS 8082A ICAL with IS

Column: Restek CLP 1 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Column: Restek CLP2 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC16\20180323-21018.b\03238015.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 23-Mar-2018 13:43:53 ALS Bottle#: 11 Worklist Smp#: 11
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0021018-011
Operator ID: 402331 Instrument ID: CHGC16
Sublist: chrom-PCB_CHGC16*sub25

Method: \\ChromNA\Pittsburgh\ChromData\CHGC16\20180323-21018.b\PCB_CHGC16.m
Limit Group: GCS 8082A ICAL with IS
Last Update: 24-Mar-2018 12:55:24 Calib Date: 23-Mar-2018 13:43:53
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHGC16\20180323-21018.b\03238015.D

Column 1 : Restek CLP 1 (0.53 mm) Det: GC ECD1A
Column 2 : Restek CLP2 (0.53 mm) Det: GC ECD2B
Process Host: XAWRK020

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 1-Bromo-2-nitrobenzene							
1	2.760	2.761	-0.001	292485354H	0.1000	0.1000	
2	2.967	2.966	0.001	347244357H	0.1000	0.1000	
$ 2 Tetrachloro-m-xylene							
1	3.391	3.391	0.000	649022953H	0.2000	0.1805	
2	3.843	3.843	0.000	696651617H	0.2000	0.1847	
						RPD = 2.32	
6 PCB-1016							
1	3.716	3.715	0.001	189317976H	4.00	3.30	
1	4.067	4.067	0.000	255404335H	4.00	3.22	
1	4.746	4.747	-0.001	248551009H	4.00	3.38	
1	5.268	5.269	-0.001	201182001H	4.00	3.37	
1	5.386	5.385	0.001	130932654H	4.00	3.87	
		Average of Peak Amounts =				3.43	
2	4.909	4.909	0.000	232515888H	4.00	3.18	
2	5.262	5.261	0.001	124897953H	4.00	3.45	
2	5.944	5.944	0.000	171874451H	4.00	3.50	
2	6.553	6.552	0.001	182325033H	4.00	3.35	
2	6.771	6.771	0.000	157810423H	4.00	3.87	
		Average of Peak Amounts =				3.47	
						RPD = 1.22	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
9 PCB-1260							
1	7.189	7.189	0.000	296560361H	4.00	3.21	
1	8.275	8.274	0.001	370385761H	4.00	3.32	
1	8.941	8.942	-0.001	258571678H	4.00	3.42	
1	9.483	9.483	0.000	624677054H	4.00	3.52	
1	9.942	9.943	-0.001	340528446H	4.00	3.51	
		Average of Peak Amounts =				3.40	
2	8.989	8.989	0.000	303792500H	4.00	3.44	
2	9.969	9.968	0.001	346301769H	4.00	3.56	
2	10.578	10.578	0.000	275084965H	4.00	3.58	
2	10.954	10.953	0.001	640555630H	4.00	3.77	
2	11.485	11.485	0.000	337402522H	4.00	3.53	
		Average of Peak Amounts =				3.58	
						RPD = 5.23	
* 16 PCB-205 (IS)							
1	10.975	10.975	0.000	209713263H	0.1000	0.1000	
2	12.318	12.318	0.001	189572675H	0.1000	0.1000	
$ 12 DCB Decachlorobiphenyl (Surr)							
1	11.568	11.569	-0.001	303679255H	0.2000	0.1733	
2	13.035	13.035	0.000	262623431H	0.2000	0.1935	
						RPD = 11.02	

Reagents:

GCAR1660CALL7_00016	Amount Added:	1.00	Units: mL	
PCBINT_00007	Amount Added:	0.01	Units: mL	Run Reagent

Report Date: 24-Mar-2018 12:55:26 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC16\20180323-21018.b\03238015.D

Injection Date: 23-Mar-2018 13:43:53 Instrument ID: CHGC16

Lims ID: IC

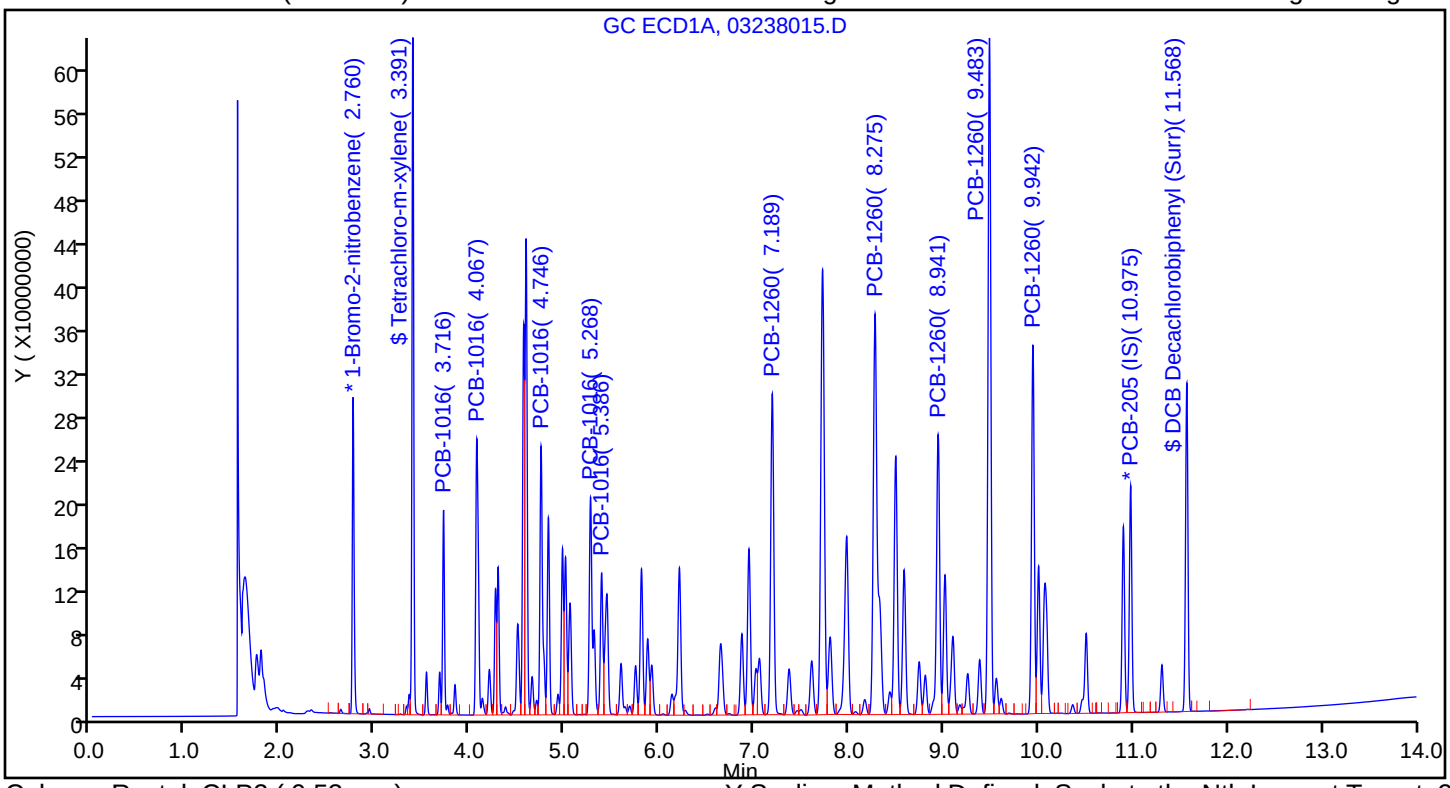
Client ID:

Operator ID: 402331 ALS Bottle#: 11 Worklist Smp#: 11

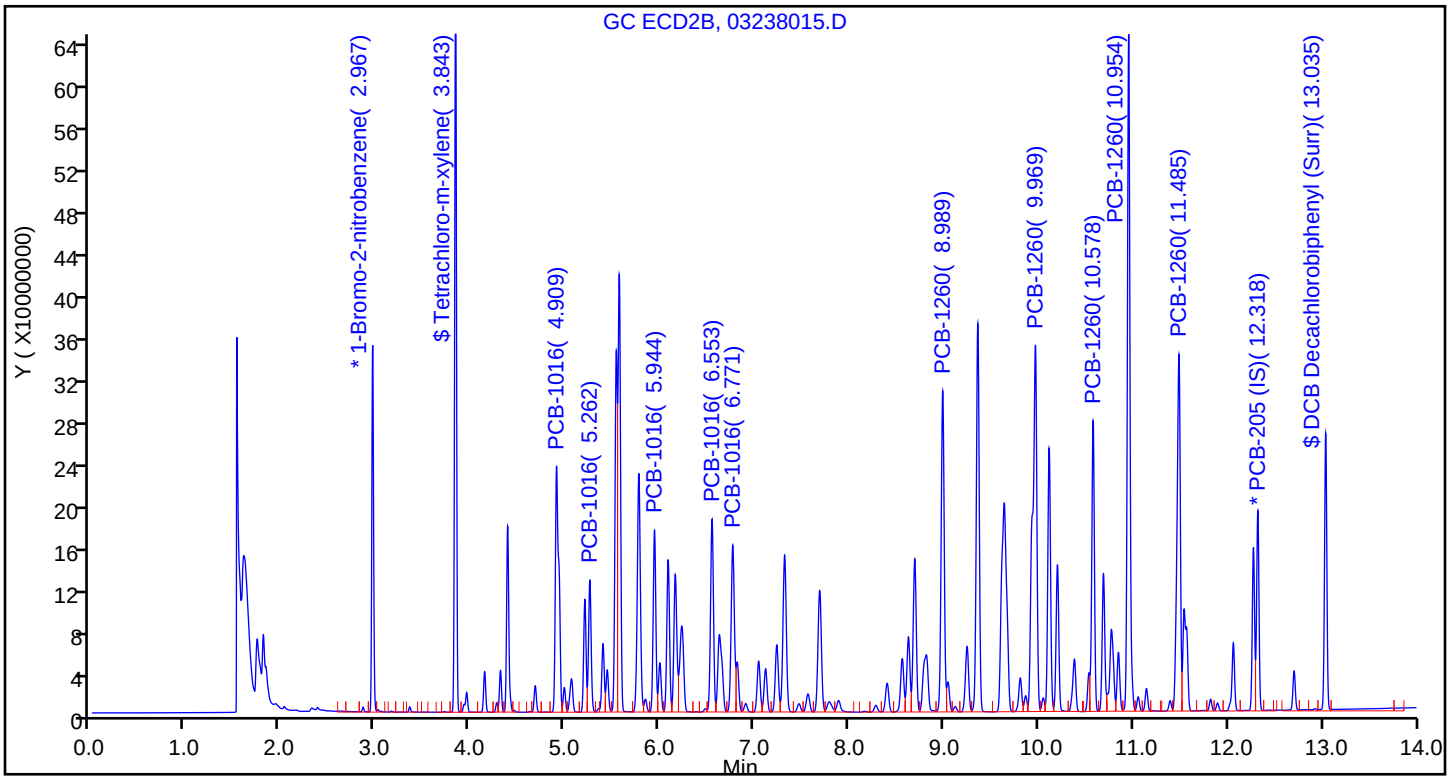
Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: PCB_CHGC16 Limit Group: GCS 8082A ICAL with IS

Column: Restek CLP 1 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Column: Restek CLP2 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Pittsburgh Job No.: 180-78460-1 Analy Batch No.: 240288

SDG No.:

Instrument ID: CHGC16 GC Column: RTX-CLP2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/23/2018 11:38 Calibration End Date: 03/23/2018 13:43 Calibration ID: 37554

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 180-240288/5	03238009.D
Level 2	IC 180-240288/6	03238010.D
Level 3	IC 180-240288/7	03238011.D
Level 4	ICIS 180-240288/8	03238012.D
Level 5	IC 180-240288/9	03238013.D
Level 6	IC 180-240288/10	03238014.D
Level 7	IC 180-240288/11	03238015.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
PCB-1016 Peak 1	0.0273 0.0184	0.0245 0.0167	0.0216	0.0201	0.0187	Ave		0.0211				17.7		20.0			
PCB-1016 Peak 2	0.0175 0.0099	0.0134 0.0090	0.0116	0.0109	0.0100	Lin1	0.0001	0.0104							0.9900		0.9900
PCB-1016 Peak 3	0.0173 0.0129	0.0154 0.0124	0.0143	0.0136	0.0130	Ave		0.0141				12.2		20.0			
PCB-1016 Peak 4	0.0193 0.0142	0.0176 0.0131	0.0159	0.0152	0.0143	Ave		0.0157				13.9		20.0			
PCB-1016 Peak 5	0.0167 0.0120	0.0150 0.0114	0.0135	0.0128	0.0122	Lin1	0.0001	0.0117							0.9980		0.9900
PCB-1260 Peak 1	0.0590 0.0427	0.0510 0.0401	0.0460	0.0432	0.0437	Ave		0.0465				13.9		20.0			
PCB-1260 Peak 2	0.0632 0.0479	0.0553 0.0457	0.0499	0.0482	0.0485	Ave		0.0512				11.8		20.0			
PCB-1260 Peak 3	0.0496 0.0374	0.0437 0.0363	0.0404	0.0380	0.0380	Ave		0.0405				11.7		20.0			
PCB-1260 Peak 4	0.1079 0.0864	0.0934 0.0845	0.0847	0.0834	0.0863	Ave		0.0895				9.8		20.0			
PCB-1260 Peak 5	0.0687 0.0466	0.0540 0.0445	0.0478	0.0453	0.0462	Ave		0.0504				17.1		20.0			
Tetrachloro-m-xylene	1.2956 1.0440	1.1509 1.0031	1.0533	1.0460	1.0102	Ave		1.0862				9.6		20.0			
DCB Decachlorobiphenyl (Surr)	2.4131 0.7078	1.0986 0.6927	0.8221	0.7344	0.7150	Lin1	0.0009	0.7115							0.9990		0.9900

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Pittsburgh Job No.: 180-78460-1 Analy Batch No.: 240288

SDG No.:

Instrument ID: CHGC16 GC Column: RTX-CLP2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/23/2018 11:38 Calibration End Date: 03/23/2018 13:43 Calibration ID: 37554

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 180-240288/5	03238009.D
Level 2	IC 180-240288/6	03238010.D
Level 3	IC 180-240288/7	03238011.D
Level 4	ICIS 180-240288/8	03238012.D
Level 5	IC 180-240288/9	03238013.D
Level 6	IC 180-240288/10	03238014.D
Level 7	IC 180-240288/11	03238015.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
PCB-1016 Peak 1	BNB	Ave	1067111 125643960	4736226 232515888	15886134	36275528	66097336	0.0100 2.00	0.0500 4.00	0.200	0.500	1.00
PCB-1016 Peak 2	BNB	Lin1	682929 67713013	2594707 124897953	8565453	19574714	35504748	0.0100 2.00	0.0500 4.00	0.200	0.500	1.00
PCB-1016 Peak 3	BNB	Ave	677077 88142871	2965975 171874451	10523583	24513649	46013215	0.0100 2.00	0.0500 4.00	0.200	0.500	1.00
PCB-1016 Peak 4	BNB	Ave	756331 96520237	3405119 182325033	11672143	27350284	50509106	0.0100 2.00	0.0500 4.00	0.200	0.500	1.00
PCB-1016 Peak 5	BNB	Lin1	652864 81930806	2888765 157810423	9943864	23098554	43046792	0.0100 2.00	0.0500 4.00	0.200	0.500	1.00
PCB-1260 Peak 1	PCB205	Ave	1250037 158288956	5350506 303792500	18252863	42328404	80482929	0.0100 2.00	0.0500 4.00	0.200	0.500	1.00
PCB-1260 Peak 2	PCB205	Ave	1338288 177515525	5807604 346301769	19787163	47263585	89321855	0.0100 2.00	0.0500 4.00	0.200	0.500	1.00
PCB-1260 Peak 3	PCB205	Ave	1051363 138602068	4584273 275084965	16039542	37235922	69877516	0.0100 2.00	0.0500 4.00	0.200	0.500	1.00
PCB-1260 Peak 4	PCB205	Ave	2286928 320211878	9798725 640555630	33608070	81734292	158768027	0.0100 2.00	0.0500 4.00	0.200	0.500	1.00
PCB-1260 Peak 5	PCB205	Ave	1454768 172726915	5664933 337402522	18946782	44365491	84964275	0.0100 2.00	0.0500 4.00	0.200	0.500	1.00
Tetrachloro-m-xylene	BNB	Ave	2533251 355659911	11104918 696651617	38743197	94332760	178745325	0.000500 0.100	0.00250 0.200	0.0100	0.0250	0.0500
DCB Decachlorobiphenyl (Surr)	PCB205	Lin1	2556184 131126538	5764648 262623431	16308787	36000076	65770612	0.000500 0.100	0.00250 0.200	0.0100	0.0250	0.0500

Curve Type Legend:

Ave = Average ISTD by Height
Lin1 = Linear 1/Conc^2 ISTD by Height

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC16\20180323-21018.b\03238009.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 23-Mar-2018 11:38:56 ALS Bottle#: 5 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0021018-005
Operator ID: 402331 Instrument ID: CHGC16
Sublist: chrom-PCB_CHGC16*sub25

Method: \\ChromNA\Pittsburgh\ChromData\CHGC16\20180323-21018.b\PCB_CHGC16.m
Limit Group: GCS 8082A ICAL with IS
Last Update: 24-Mar-2018 12:56:16 Calib Date: 23-Mar-2018 13:43:53
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHGC16\20180323-21018.b\03238015.D

Column 1 : Restek CLP 1 (0.53 mm) Det: GC ECD1A
Column 2 : Restek CLP2 (0.53 mm) Det: GC ECD2B
Process Host: XAWRK020

First Level Reviewer: oravecj Date: 24-Mar-2018 07:43:40

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 1-Bromo-2-nitrobenzene							
1	2.759	2.761	-0.002	323793442H	0.1000	0.1000	
2	2.965	2.966	-0.001	391048772H	0.1000	0.1000	
$ 2 Tetrachloro-m-xylene							
1	3.389	3.391	-0.002	2355331H	0.000500	0.000592	
2	3.840	3.843	-0.003	2533251H	0.000500	0.000596	
						RPD = 0.81	
6 PCB-1016							
1	3.714	3.715	-0.001	792561H	0.0100	0.0125	
1	4.065	4.067	-0.002	1116092H	0.0100	0.0127	
1	4.745	4.747	-0.002	1022357H	0.0100	0.0126	
1	5.268	5.269	-0.001	878855H	0.0100	0.0133	
1	5.383	5.385	-0.002	534738H	0.0100	0.006215	
		Average of Peak Amounts =				0.0115	
2	4.909	4.909	0.000	1067111H	0.0100	0.0130	
2	5.259	5.261	-0.002	682929H	0.0100	0.009663	
2	5.943	5.944	-0.001	677077H	0.0100	0.0123	
2	6.550	6.552	-0.002	756331H	0.0100	0.0124	
2	6.772	6.771	0.001	652864H	0.0100	0.006685	
		Average of Peak Amounts =				0.0108	
						RPD = 6.02	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
9 PCB-1260							
1	7.188	7.189	-0.001	1276099H	0.0100	0.0128	
1	8.274	8.274	0.000	1499805H	0.0100	0.0125	
1	8.940	8.942	-0.002	974018H	0.0100	0.0120	
1	9.483	9.483	0.000	2257747H	0.0100	0.0118	
1	9.944	9.943	0.001	1261722H	0.0100	0.0121	
		Average of Peak Amounts =				0.0122	
2	8.989	8.989	0.000	1250037H	0.0100	0.0127	
2	9.968	9.968	0.000	1338288H	0.0100	0.0123	
2	10.579	10.578	0.001	1051363H	0.0100	0.0123	
2	10.954	10.953	0.001	2286928H	0.0100	0.0121	
2	11.485	11.485	0.000	1454768H	0.0100	0.0136	
		Average of Peak Amounts =				0.0126	
						RPD = 2.88	
* 16 PCB-205 (IS)							
1	10.976	10.975	0.001	225947296H	0.1000	0.1000	
2	12.318	12.318	0.000	211857117H	0.1000	0.1000	
$ 12 DCB Decachlorobiphenyl (Surr)							
1	11.569	11.569	0.000	1177464H	0.000500	0.000624	
2	13.035	13.035	0.000	2556184H	0.000500	0.000493	
						RPD = 23.37	

Reagents:

GCAR1660CALL1_00023	Amount Added:	1.00	Units: mL	
PCBINT_00007	Amount Added:	0.01	Units: mL	Run Reagent

Report Date: 24-Mar-2018 12:56:17 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC16\20180323-21018.b\03238009.D

Injection Date: 23-Mar-2018 11:38:56 Instrument ID: CHGC16

Lims ID: IC

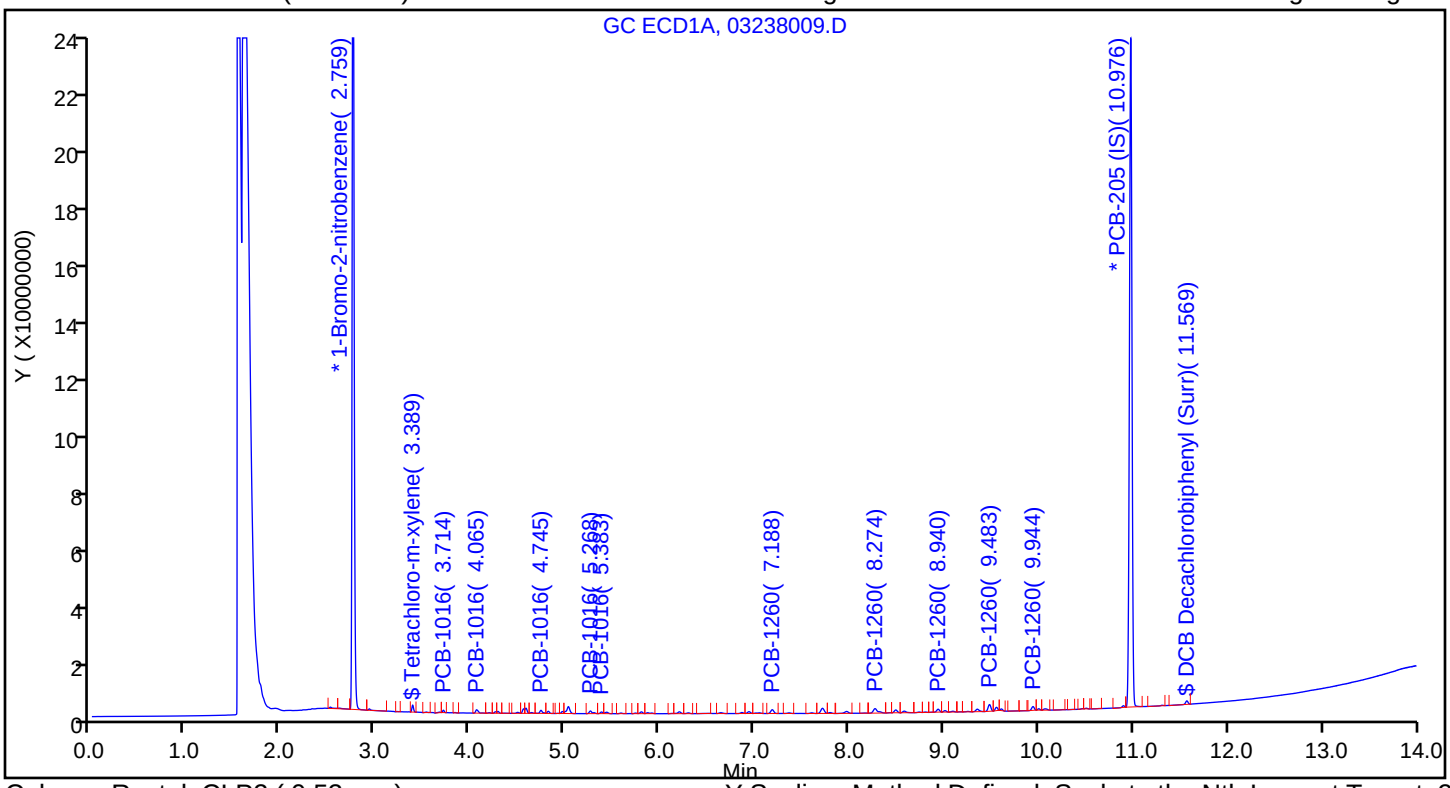
Client ID:

Operator ID: 402331 ALS Bottle#: 5 Worklist Smp#: 5

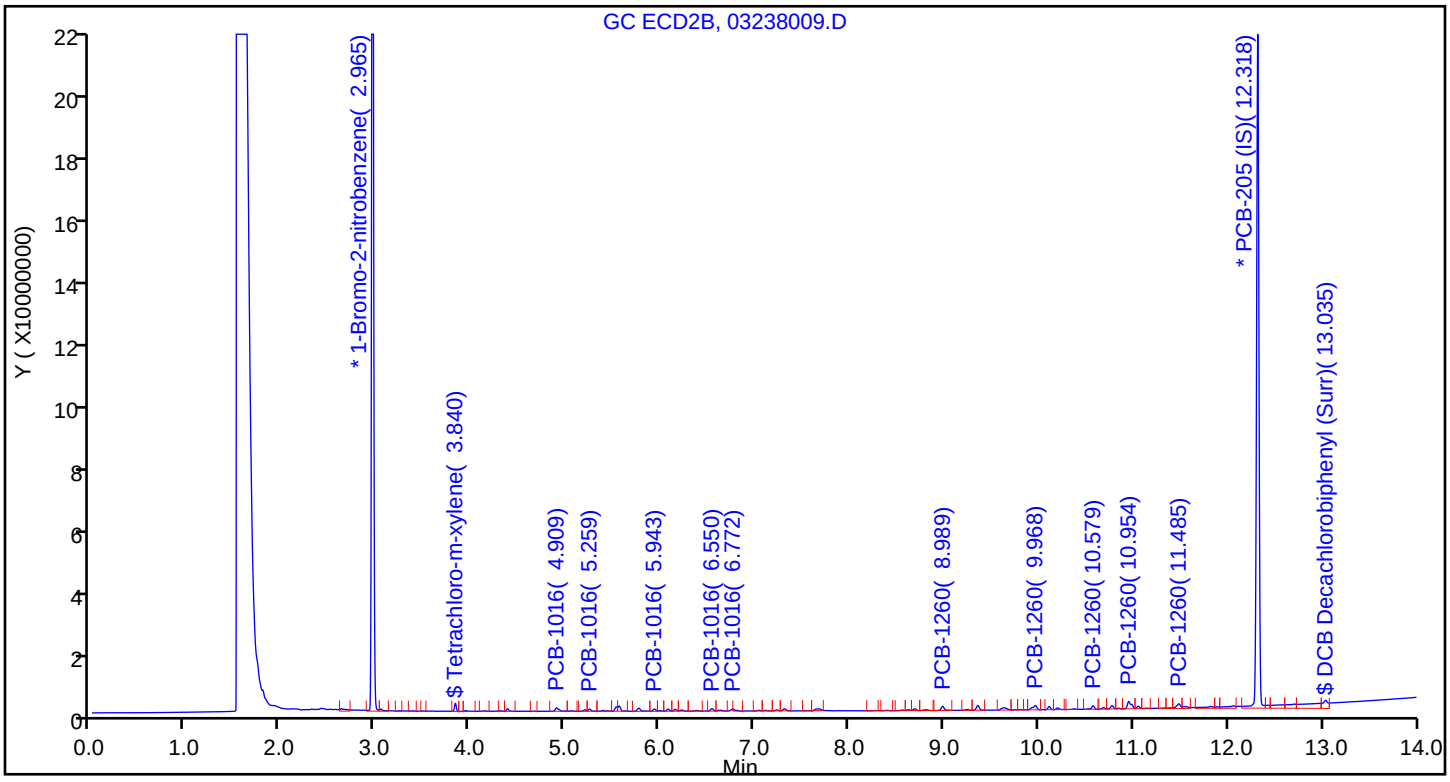
Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: PCB_CHGC16 Limit Group: GCS 8082A ICAL with IS

Column: Restek CLP 1 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Column: Restek CLP2 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC16\20180323-21018.b\03238010.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 23-Mar-2018 11:59:43 ALS Bottle#: 6 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0021018-006
Operator ID: 402331 Instrument ID: CHGC16
Sublist: chrom-PCB_CHGC16*sub25

Method: \\ChromNA\Pittsburgh\ChromData\CHGC16\20180323-21018.b\PCB_CHGC16.m
Limit Group: GCS 8082A ICAL with IS
Last Update: 24-Mar-2018 12:56:08 Calib Date: 23-Mar-2018 13:43:53
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHGC16\20180323-21018.b\03238015.D

Column 1 : Restek CLP 1 (0.53 mm) Det: GC ECD1A
Column 2 : Restek CLP2 (0.53 mm) Det: GC ECD2B
Process Host: XAWRK020

First Level Reviewer: oravecj Date: 24-Mar-2018 07:43:54

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 1-Bromo-2-nitrobenzene							
1	2.761	2.761	0.000	324483999H	0.1000	0.1000	
2	2.967	2.966	0.000	385949503H	0.1000	0.1000	
$ 2 Tetrachloro-m-xylene							
1	3.391	3.391	0.000	10685260H	0.002500	0.002678	
2	3.842	3.843	-0.001	11104918H	0.002500	0.002649	
						RPD = 1.09	
6 PCB-1016							
1	3.716	3.715	0.001	3749514H	0.0500	0.0589	
1	4.067	4.067	0.000	5120871H	0.0500	0.0582	
1	4.747	4.747	0.000	4655102H	0.0500	0.0571	
1	5.268	5.269	-0.001	3884300H	0.0500	0.0586	
1	5.386	5.385	0.001	2466945H	0.0500	0.0578	
		Average of Peak Amounts =				0.0581	
2	4.909	4.909	0.000	4736226H	0.0500	0.0583	
2	5.262	5.261	0.001	2594707H	0.0500	0.0575	
2	5.945	5.944	0.001	2965975H	0.0500	0.0544	
2	6.553	6.552	0.001	3405119H	0.0500	0.0564	
2	6.772	6.771	0.001	2888765H	0.0500	0.0562	
		Average of Peak Amounts =				0.0566	
						RPD = 2.74	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
9 PCB-1260							
1	7.190	7.189	0.001	5490082H	0.0500	0.0566	
1	8.274	8.274	0.000	6564409H	0.0500	0.0560	
1	8.941	8.942	-0.001	4248467H	0.0500	0.0534	
1	9.484	9.483	0.001	10043504H	0.0500	0.0539	
1	9.942	9.943	-0.001	5437419H	0.0500	0.0532	
		Average of Peak Amounts =				0.0546	
2	8.990	8.989	0.001	5350506H	0.0500	0.0548	
2	9.967	9.968	-0.001	5807604H	0.0500	0.0540	
2	10.578	10.578	0.000	4584273H	0.0500	0.0540	
2	10.953	10.953	0.000	9798725H	0.0500	0.0522	
2	11.484	11.485	-0.001	5664933H	0.0500	0.0535	
		Average of Peak Amounts =				0.0537	
						RPD = 1.70	
* 16 PCB-205 (IS)							
1	10.975	10.975	0.000	220605000H	0.1000	0.1000	
2	12.317	12.318	0.000	209889262H	0.1000	0.1000	
$ 12 DCB Decachlorobiphenyl (Surr)							
1	11.568	11.569	-0.001	5105435H	0.002500	0.002770	
2	13.035	13.035	0.000	5764648H	0.002500	0.002658	
						RPD = 4.13	

Reagents:

GCAR1660CALL2_00017	Amount Added:	1.00	Units: mL	
PCBINT_00007	Amount Added:	0.01	Units: mL	Run Reagent

Report Date: 24-Mar-2018 12:56:10 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC16\20180323-21018.b\03238010.D

Injection Date: 23-Mar-2018 11:59:43 Instrument ID: CHGC16

Lims ID: IC

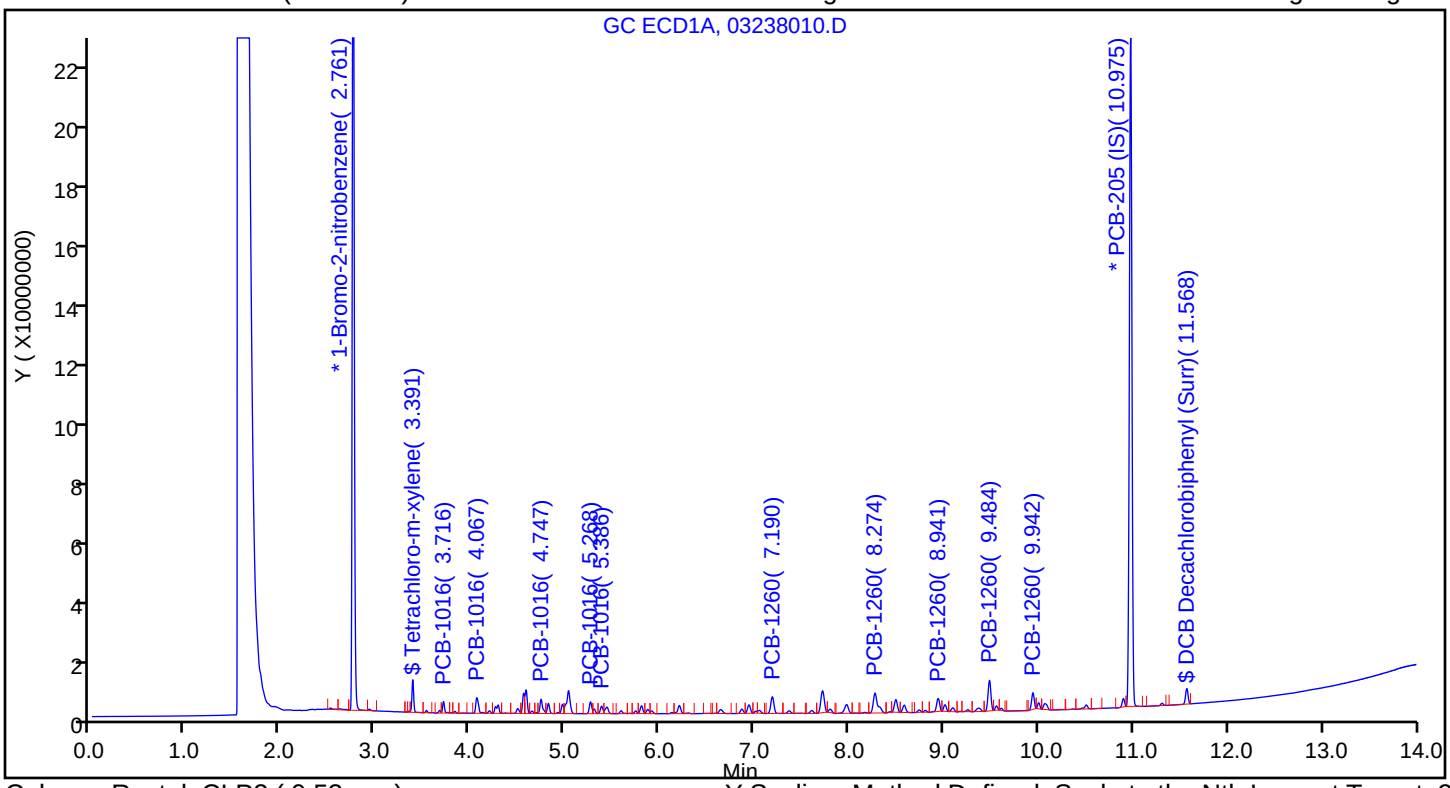
Client ID:

Operator ID: 402331 ALS Bottle#: 6 Worklist Smp#: 6

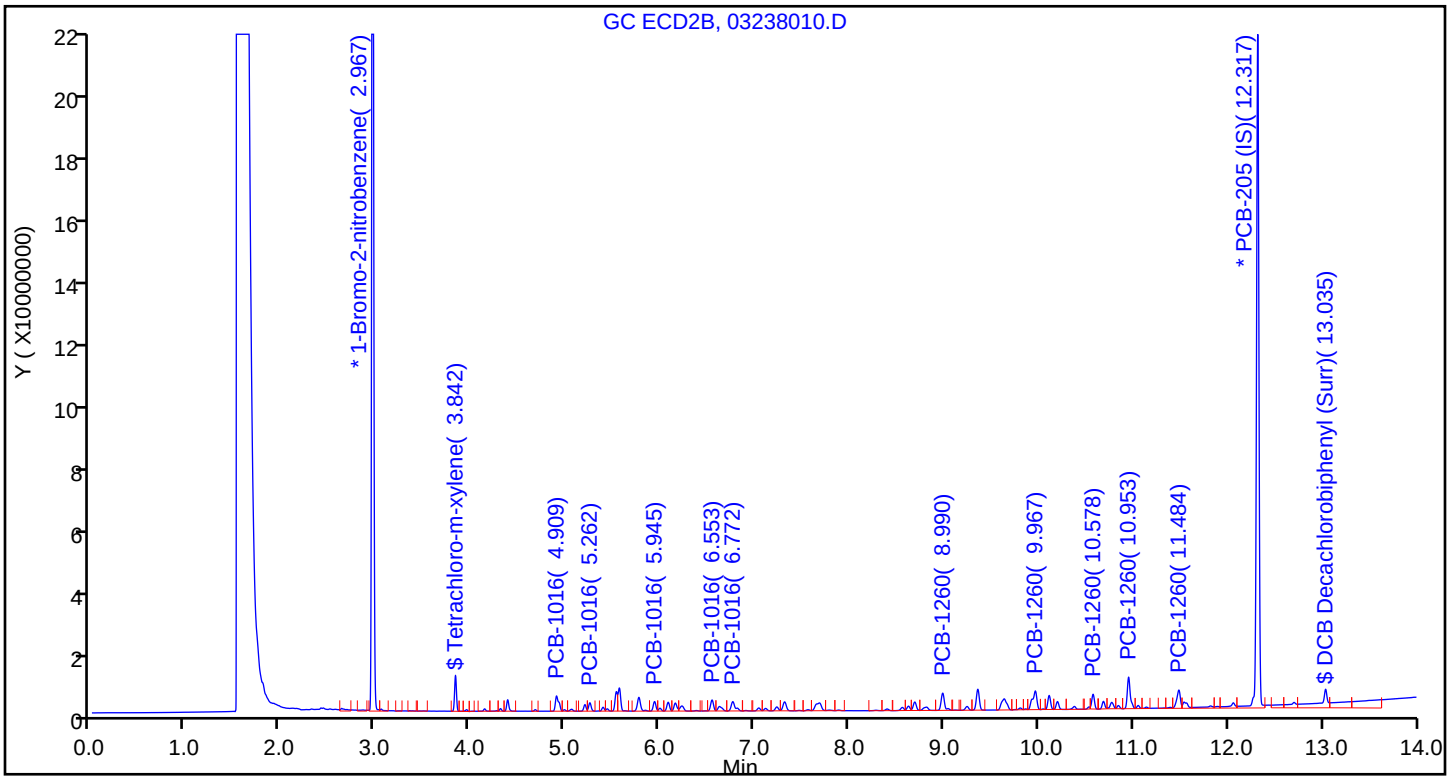
Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: PCB_CHGC16 Limit Group: GCS 8082A ICAL with IS

Column: Restek CLP 1 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Column: Restek CLP2 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC16\20180323-21018.b\03238011.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 23-Mar-2018 12:20:27 ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0021018-007
Operator ID: 402331 Instrument ID: CHGC16
Sublist: chrom-PCB_CHGC16*sub25

Method: \\ChromNA\Pittsburgh\ChromData\CHGC16\20180323-21018.b\PCB_CHGC16.m
Limit Group: GCS 8082A ICAL with IS
Last Update: 24-Mar-2018 12:55:56 Calib Date: 23-Mar-2018 13:43:53
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHGC16\20180323-21018.b\03238015.D

Column 1 : Restek CLP 1 (0.53 mm) Det: GC ECD1A
Column 2 : Restek CLP2 (0.53 mm) Det: GC ECD2B
Process Host: XAWRK020

First Level Reviewer: oravecj Date: 24-Mar-2018 07:41:26

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 1-Bromo-2-nitrobenzene							
1	2.761	2.761	0.000	314117816H	0.1000	0.1000	
2	2.967	2.966	0.001	367826894H	0.1000	0.1000	
$ 2 Tetrachloro-m-xylene							
1	3.391	3.391	0.000	37696712H	0.0100	0.009760	
2	3.843	3.843	0.000	38743197H	0.0100	0.009697	
						RPD = 0.64	
6 PCB-1016							
1	3.715	3.715	0.000	12517211H	0.2000	0.2032	
1	4.067	4.067	0.000	17350834H	0.2000	0.2037	
1	4.746	4.747	-0.001	15944434H	0.2000	0.2020	
1	5.269	5.269	0.000	13036137H	0.2000	0.2033	
1	5.386	5.385	0.001	8362451H	0.2000	0.2226	
		Average of Peak Amounts =				0.2070	
2	4.910	4.909	0.001	15886134H	0.2000	0.2051	
2	5.262	5.261	0.001	8565453H	0.2000	0.2167	
2	5.945	5.944	0.001	10523583H	0.2000	0.2025	
2	6.553	6.552	0.001	11672143H	0.2000	0.2027	
2	6.772	6.771	0.001	9943864H	0.2000	0.2228	
		Average of Peak Amounts =				0.2100	
						RPD = 1.45	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
9 PCB-1260							
1	7.189	7.189	0.000	18713655H	0.2000	0.1996	
1	8.274	8.274	0.000	22475316H	0.2000	0.1984	
1	8.941	8.942	-0.001	15396233H	0.2000	0.2005	
1	9.484	9.483	0.001	35634184H	0.2000	0.1979	
1	9.943	9.943	0.000	19842200H	0.2000	0.2011	
		Average of Peak Amounts =				0.1995	
2	8.989	8.989	0.000	18252863H	0.2000	0.1978	
2	9.968	9.968	0.000	19787163H	0.2000	0.1946	
2	10.579	10.578	0.001	16039542H	0.2000	0.1997	
2	10.953	10.953	0.000	33608070H	0.2000	0.1893	
2	11.486	11.485	0.001	18946782H	0.2000	0.1894	
		Average of Peak Amounts =				0.1942	
						RPD = 2.72	
* 16 PCB-205 (IS)							
1	10.975	10.975	0.000	213027544H	0.1000	0.1000	
2	12.319	12.318	0.001	198374497H	0.1000	0.1000	
$ 12 DCB Decachlorobiphenyl (Surr)							
1	11.568	11.569	-0.001	17632809H	0.0100	0.0099	
2	13.035	13.035	0.000	16308787H	0.0100	0.0104	
						RPD = 4.41	

Reagents:

GCAR1660CALL3_00016	Amount Added:	1.00	Units: mL	
PCBINT_00007	Amount Added:	0.01	Units: mL	Run Reagent

Report Date: 24-Mar-2018 12:55:59 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC16\20180323-21018.b\03238011.D

Injection Date: 23-Mar-2018 12:20:27 Instrument ID: CHGC16

Lims ID: IC

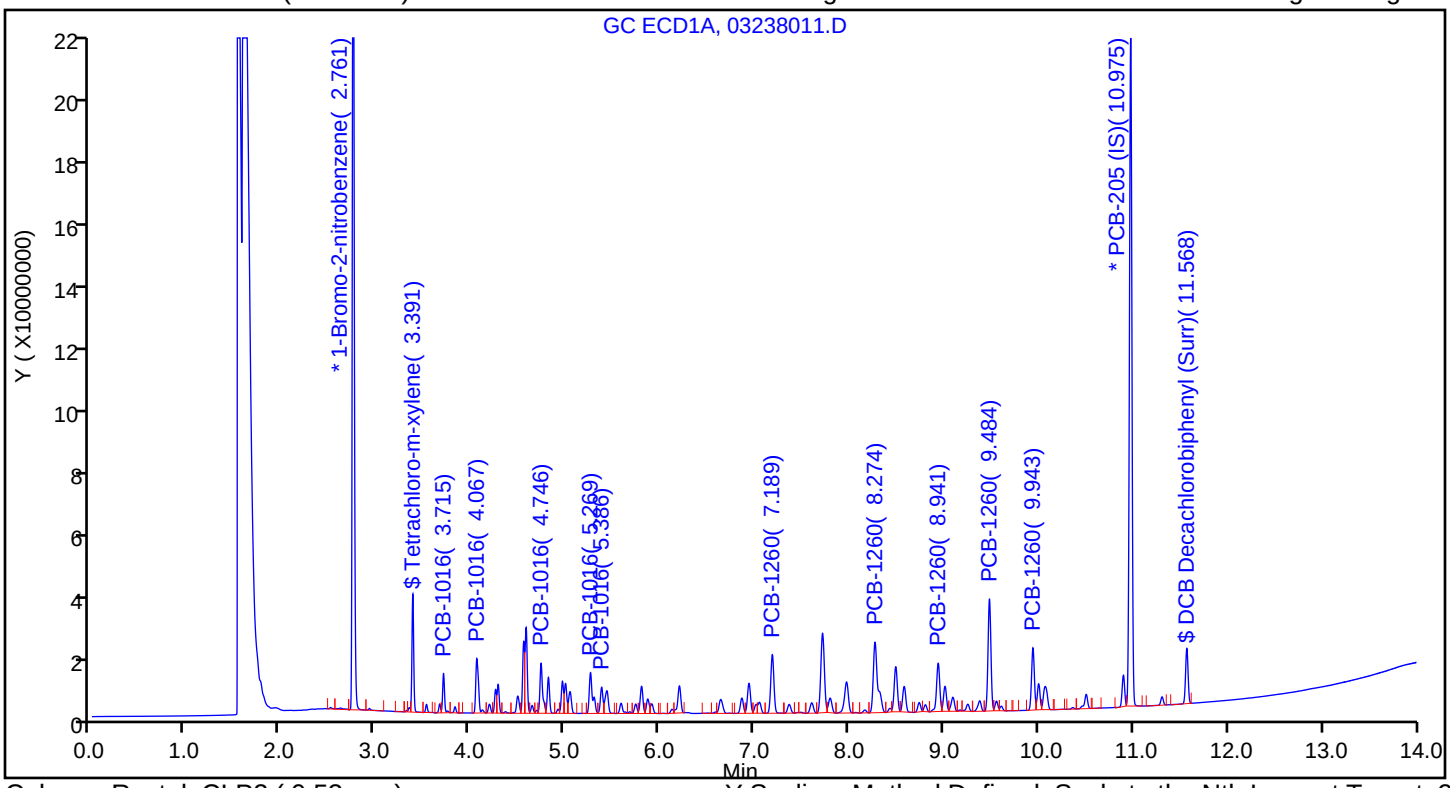
Client ID:

Operator ID: 402331 ALS Bottle#: 7 Worklist Smp#: 7

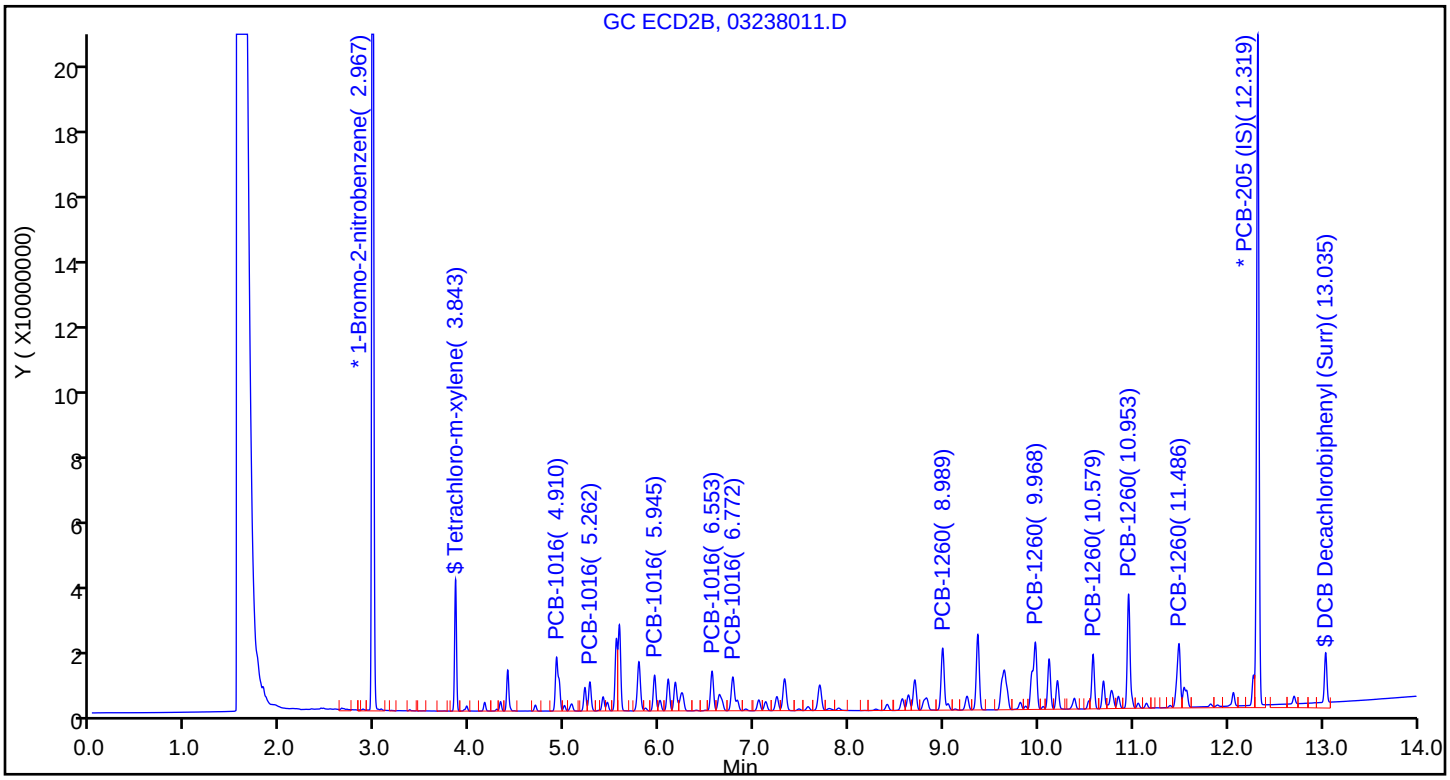
Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: PCB_CHGC16 Limit Group: GCS 8082A ICAL with IS

Column: Restek CLP 1 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Column: Restek CLP2 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC16\20180323-21018.b\03238012.D
Lims ID: ICIS
Client ID:
Sample Type: ICIS Calib Level: 4
Inject. Date: 23-Mar-2018 12:41:24 ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0021018-008
Operator ID: 402331 Instrument ID: CHGC16
Sublist: chrom-PCB_CHGC16*sub25

Method: \\ChromNA\Pittsburgh\ChromData\CHGC16\20180323-21018.b\PCB_CHGC16.m
Limit Group: GCS 8082A ICAL with IS
Last Update: 24-Mar-2018 12:55:49 Calib Date: 23-Mar-2018 13:43:53
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHGC16\20180323-21018.b\03238015.D

Column 1 : Restek CLP 1 (0.53 mm) Det: GC ECD1A
Column 2 : Restek CLP2 (0.53 mm) Det: GC ECD2B
Process Host: XAWRK020

First Level Reviewer: oravecj Date: 24-Mar-2018 07:40:22

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 1-Bromo-2-nitrobenzene							
1	2.761	2.761	0.000	308534619H	0.1000	0.1000	
2	2.966	2.966	0.000	360734202H	0.1000	0.1000	
$ 2 Tetrachloro-m-xylene							
1	3.391	3.391	0.000	92462725H	0.0250	0.0244	
2	3.843	3.843	0.000	94332760H	0.0250	0.0241	
						RPD = 1.23	
6 PCB-1016							
1	3.715	3.715	0.000	28866885H	0.5000	0.4771	
1	4.067	4.067	0.000	39838459H	0.5000	0.4762	
1	4.747	4.747	0.000	37216265H	0.5000	0.4800	
1	5.269	5.269	0.000	30764642H	0.5000	0.4884	
1	5.385	5.385	0.000	19741942H	0.5000	0.5465	
		Average of Peak Amounts =				0.4936	
2	4.909	4.909	0.000	36275528H	0.5000	0.4776	
2	5.261	5.261	0.000	19574714H	0.5000	0.5144	
2	5.944	5.944	0.000	24513649H	0.5000	0.4810	
2	6.552	6.552	0.000	27350284H	0.5000	0.4843	
2	6.771	6.771	0.000	23098554H	0.5000	0.5381	
		Average of Peak Amounts =				0.4991	
						RPD = 1.10	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
9 PCB-1260							
1	7.189	7.189	0.000	43727317H	0.5000	0.4757	
1	8.274	8.274	0.000	52653988H	0.5000	0.4740	
1	8.942	8.942	0.000	37206598H	0.5000	0.4942	
1	9.483	9.483	0.000	85697159H	0.5000	0.4854	
1	9.943	9.943	0.000	46708537H	0.5000	0.4828	
		Average of Peak Amounts =				0.4824	
2	8.989	8.989	0.000	42328404H	0.5000	0.4640	
2	9.968	9.968	0.000	47263585H	0.5000	0.4704	
2	10.578	10.578	0.000	37235922H	0.5000	0.4691	
2	10.953	10.953	0.000	81734292H	0.5000	0.4657	
2	11.485	11.485	0.000	44365491H	0.5000	0.4488	
		Average of Peak Amounts =				0.4636	
						RPD = 3.98	
* 16 PCB-205 (IS)							
1	10.975	10.975	0.000	208899700H	0.1000	0.1000	
2	12.318	12.318	0.000	196071586H	0.1000	0.1000	
$ 12 DCB Decachlorobiphenyl (Surr)							
1	11.569	11.569	0.000	41119928H	0.0250	0.0236	
2	13.035	13.035	0.000	36000076H	0.0250	0.0246	
						RPD = 4.35	

Reagents:

GCAR1660CALL4_00016	Amount Added:	1.00	Units: mL	
PCBINT_00007	Amount Added:	0.01	Units: mL	Run Reagent

Report Date: 24-Mar-2018 12:55:51 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC16\20180323-21018.b\03238012.D

Injection Date: 23-Mar-2018 12:41:24 Instrument ID: CHGC16

Lims ID: ICIS

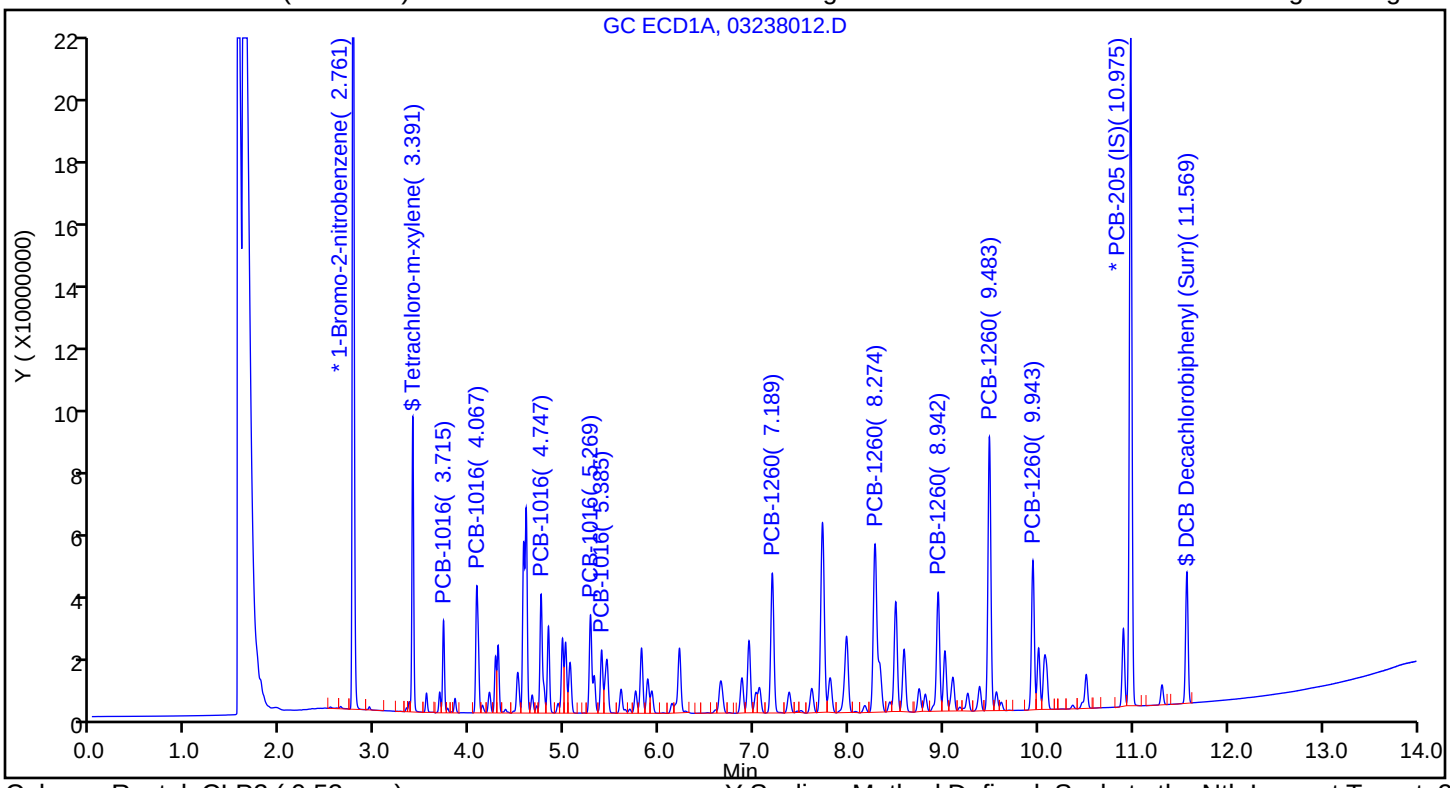
Client ID:

Operator ID: 402331 ALS Bottle#: 8 Worklist Smp#: 8

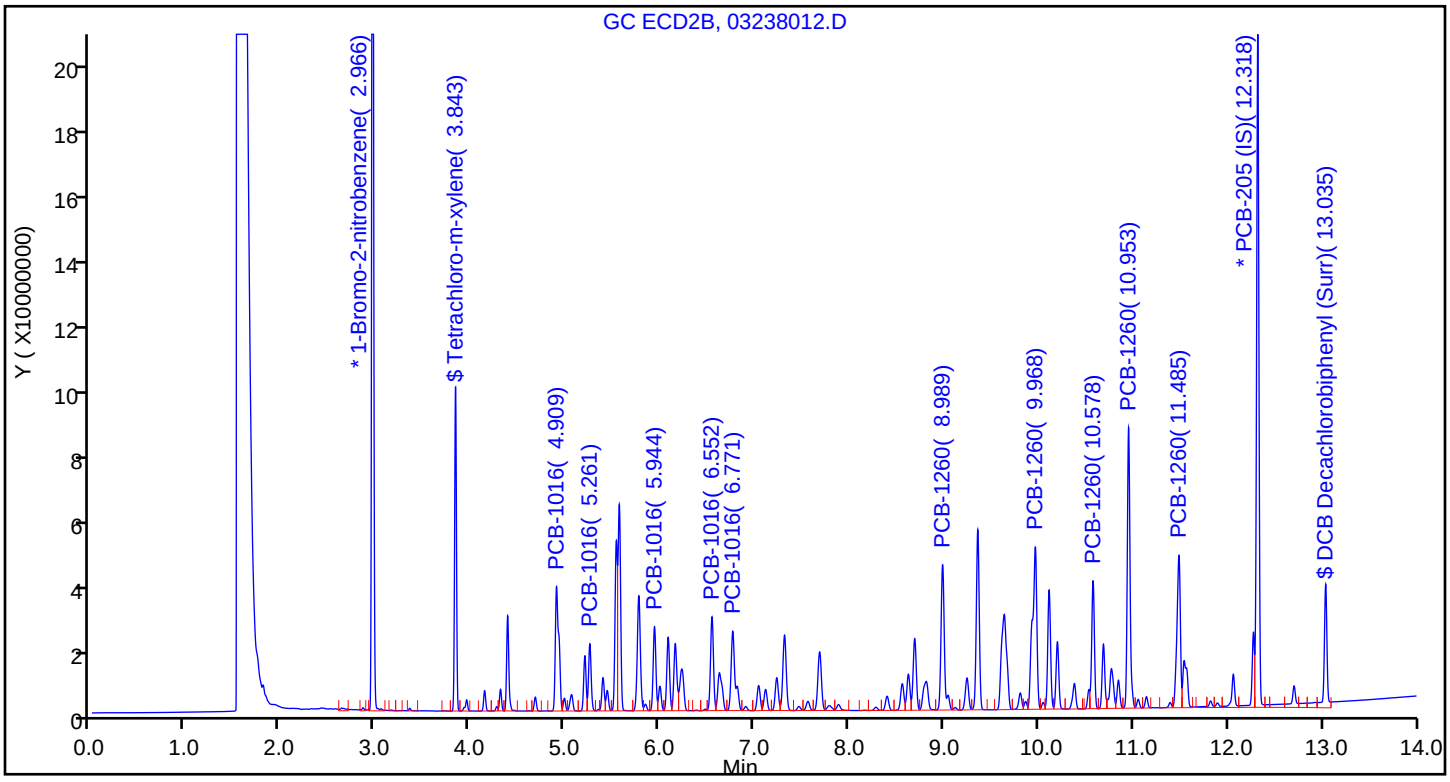
Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: PCB_CHGC16 Limit Group: GCS 8082A ICAL with IS

Column: Restek CLP 1 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Column: Restek CLP2 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC16\20180323-21018.b\03238013.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 23-Mar-2018 13:02:12 ALS Bottle#: 9 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0021018-009
Operator ID: 402331 Instrument ID: CHGC16
Sublist: chrom-PCB_CHGC16*sub25

Method: \\ChromNA\Pittsburgh\ChromData\CHGC16\20180323-21018.b\PCB_CHGC16.m
Limit Group: GCS 8082A ICAL with IS
Last Update: 24-Mar-2018 12:55:42 Calib Date: 23-Mar-2018 13:43:53
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHGC16\20180323-21018.b\03238015.D

Column 1 : Restek CLP 1 (0.53 mm) Det: GC ECD1A
Column 2 : Restek CLP2 (0.53 mm) Det: GC ECD2B
Process Host: XAWRK020

First Level Reviewer: oravecj Date: 24-Mar-2018 07:47:24

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 1-Bromo-2-nitrobenzene							
1	2.761	2.761	0.000	299913114H	0.1000	0.1000	
2	2.967	2.966	0.000	353880146H	0.1000	0.1000	
$ 2 Tetrachloro-m-xylene							
1	3.391	3.391	0.000	173121219H	0.0500	0.0469	
2	3.842	3.843	-0.001	178745325H	0.0500	0.0465	
						RPD = 0.95	
6 PCB-1016							
1	3.716	3.715	0.001	52505605H	1.00	0.8927	
1	4.067	4.067	0.000	72667370H	1.00	0.8935	
1	4.747	4.747	0.000	69178791H	1.00	0.9178	
1	5.268	5.269	-0.001	56410038H	1.00	0.9213	
1	5.387	5.385	0.002	36332285H	1.00	1.04	
		Average of Peak Amounts =				0.9334	
2	4.910	4.909	0.001	66097336H	1.00	0.8870	
2	5.262	5.261	0.001	35504748H	1.00	0.9572	
2	5.946	5.944	0.002	46013215H	1.00	0.9204	
2	6.553	6.552	0.001	50509106H	1.00	0.9117	
2	6.772	6.771	0.001	43046792H	1.00	1.03	
		Average of Peak Amounts =				0.9411	
						RPD = 0.81	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
9 PCB-1260							
1	7.189	7.189	0.000	81333780H	1.00	0.9246	
1	8.274	8.274	0.000	100016624H	1.00	0.9410	
1	8.942	8.942	0.000	68451592H	1.00	0.9501	
1	9.483	9.483	0.000	162365744H	1.00	0.9610	
1	9.942	9.943	-0.001	87535552H	1.00	0.9455	
		Average of Peak Amounts =				0.9444	
2	8.989	8.989	0.000	80482929H	1.00	0.9402	
2	9.968	9.968	0.000	89321855H	1.00	0.9474	
2	10.578	10.578	0.000	69877516H	1.00	0.9382	
2	10.954	10.953	0.001	158768027H	1.00	0.9640	
2	11.486	11.485	0.001	84964275H	1.00	0.9159	
		Average of Peak Amounts =				0.9411	
						RPD = 0.35	
* 16 PCB-205 (IS)							
1	10.975	10.975	0.000	199894867H	0.1000	0.1000	
2	12.318	12.318	0.000	183984923H	0.1000	0.1000	
$ 12 DCB Decachlorobiphenyl (Surr)							
1	11.568	11.569	-0.001	77325352H	0.0500	0.0463	
2	13.036	13.035	0.001	65770612H	0.0500	0.0490	
						RPD = 5.77	

Reagents:

GCAR1660CALL5_00017	Amount Added:	1.00	Units: mL	
PCBINT_00007	Amount Added:	0.01	Units: mL	Run Reagent

Report Date: 24-Mar-2018 12:55:45 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC16\20180323-21018.b\03238013.D

Injection Date: 23-Mar-2018 13:02:12 Instrument ID: CHGC16

Lims ID: IC

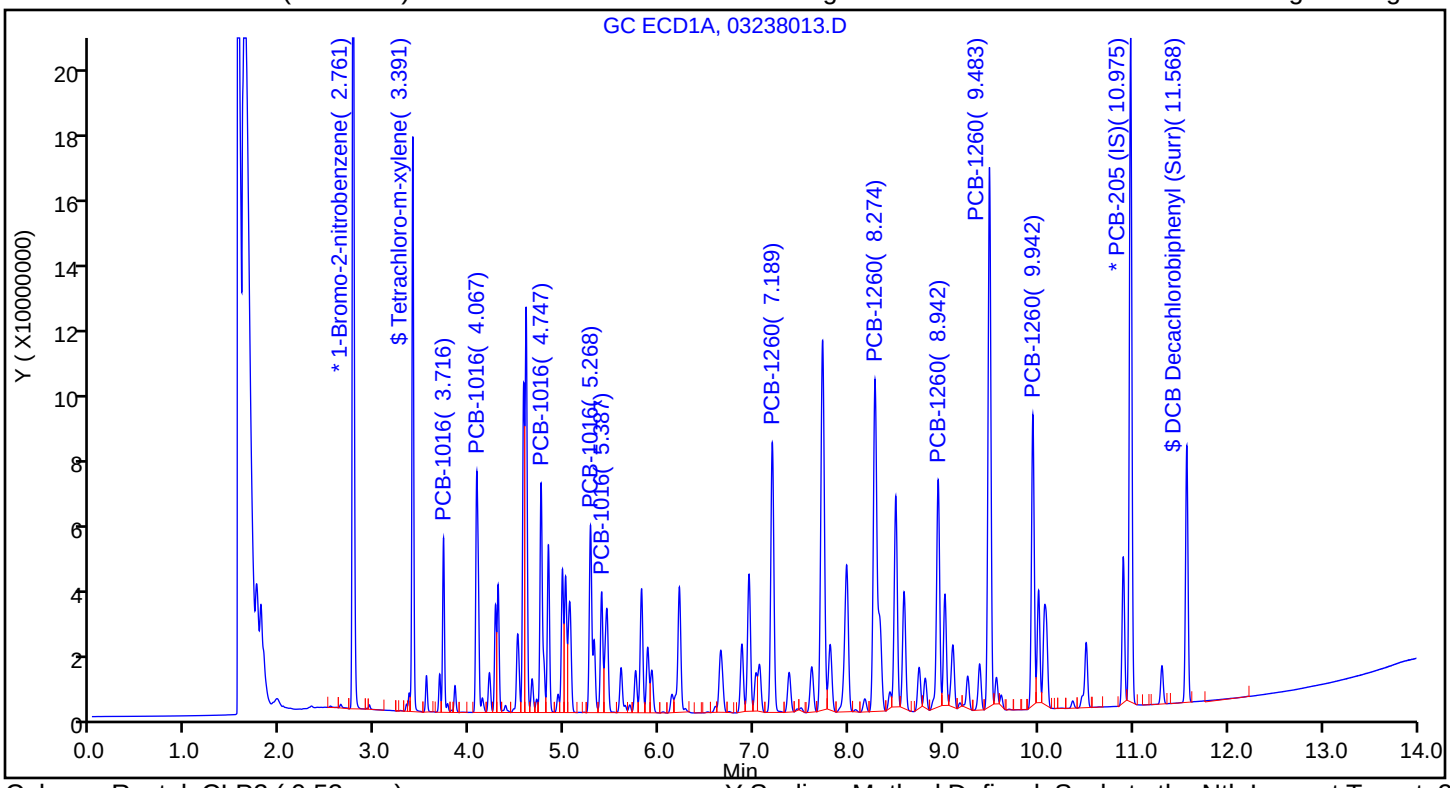
Client ID:

Operator ID: 402331 ALS Bottle#: 9 Worklist Smp#: 9

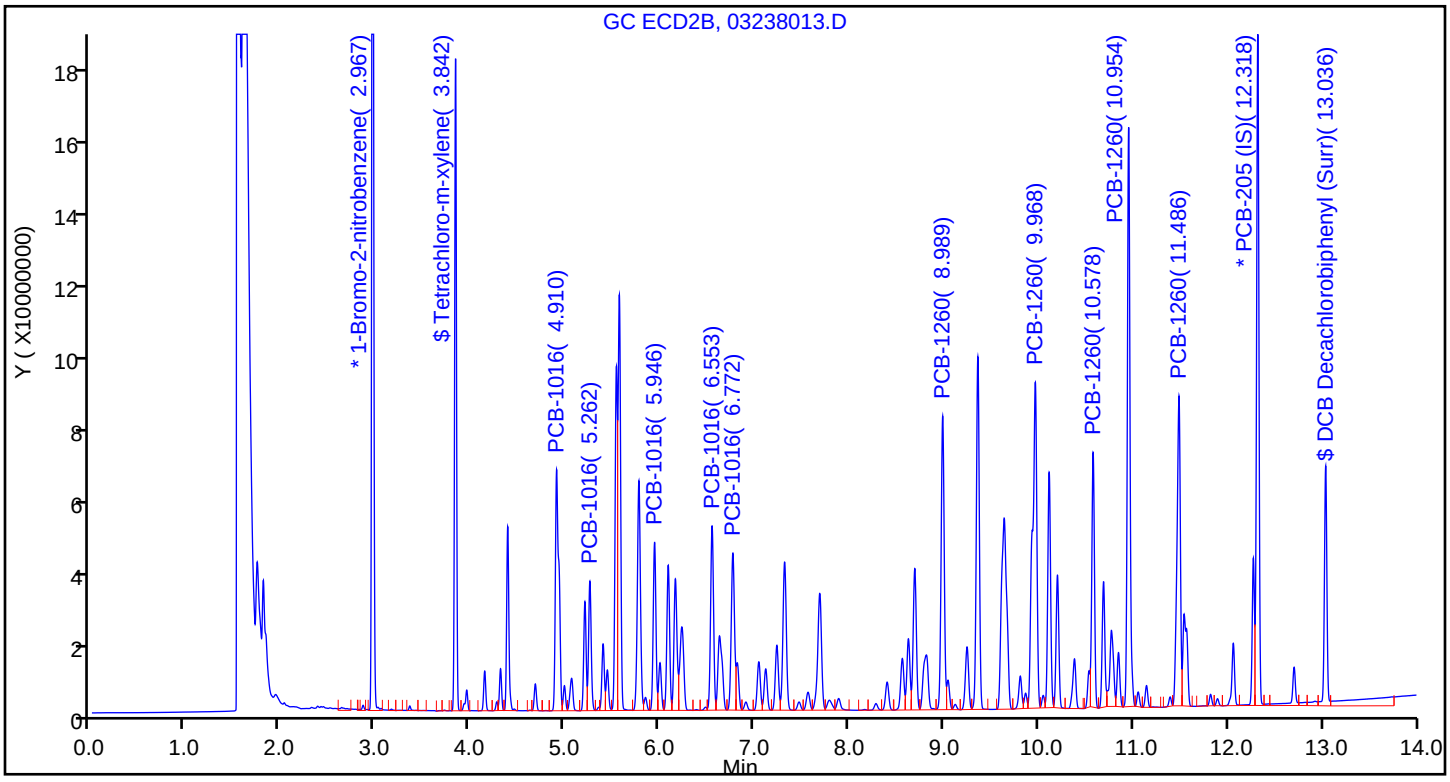
Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: PCB_CHGC16 Limit Group: GCS 8082A ICAL with IS

Column: Restek CLP 1 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Column: Restek CLP2 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC16\20180323-21018.b\03238014.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 23-Mar-2018 13:23:00 ALS Bottle#: 10 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0021018-010
Operator ID: 402331 Instrument ID: CHGC16
Sublist: chrom-PCB_CHGC16*sub25

Method: \\ChromNA\Pittsburgh\ChromData\CHGC16\20180323-21018.b\PCB_CHGC16.m
Limit Group: GCS 8082A ICAL with IS
Last Update: 24-Mar-2018 12:55:32 Calib Date: 23-Mar-2018 13:43:53
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHGC16\20180323-21018.b\03238015.D

Column 1 : Restek CLP 1 (0.53 mm) Det: GC ECD1A
Column 2 : Restek CLP2 (0.53 mm) Det: GC ECD2B
Process Host: XAWRK020

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 1-Bromo-2-nitrobenzene							
1	2.761	2.761	0.000	288360103H	0.1000	0.1000	
2	2.967	2.966	0.001	340665869H	0.1000	0.1000	
$ 2 Tetrachloro-m-xylene							
1	3.391	3.391	0.000	338023404H	0.1000	0.0953	
2	3.843	3.843	0.000	355659911H	0.1000	0.0961	
						RPD = 0.82	
6 PCB-1016							
1	3.715	3.715	0.000	100173788H	2.00	1.77	
1	4.068	4.067	0.001	140032394H	2.00	1.79	
1	4.747	4.747	0.000	125952933H	2.00	1.74	
1	5.269	5.269	0.000	87249408H	2.00	1.48	
1	5.386	5.385	0.001	67246970H	2.00	2.01	
		Average of Peak Amounts =				1.76	
2	4.909	4.909	0.000	125643960H	2.00	1.75	
2	5.260	5.261	-0.001	67713013H	2.00	1.90	
2	5.944	5.944	0.000	88142871H	2.00	1.83	
2	6.551	6.552	-0.001	96520237H	2.00	1.81	
2	6.771	6.771	0.000	81930806H	2.00	2.04	
		Average of Peak Amounts =				1.87	
						RPD = 5.99	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
9 PCB-1260							
1	7.189	7.189	0.000	156808170H	2.00	1.82	
1	8.274	8.274	0.000	192159456H	2.00	1.84	
1	8.941	8.942	-0.001	132802886H	2.00	1.88	
1	9.483	9.483	0.000	311017791H	2.00	1.88	
1	9.943	9.943	0.000	170255665H	2.00	1.87	
		Average of Peak Amounts =				1.86	
2	8.988	8.989	-0.001	158288956H	2.00	1.84	
2	9.968	9.968	0.000	177515525H	2.00	1.87	
2	10.578	10.578	0.000	138602068H	2.00	1.85	
2	10.953	10.953	0.000	320211878H	2.00	1.93	
2	11.485	11.485	0.000	172726915H	2.00	1.85	
		Average of Peak Amounts =				1.87	
						RPD = 0.52	
* 16 PCB-205 (IS)							
1	10.975	10.975	0.000	196171859H	0.1000	0.1000	
2	12.318	12.318	0.000	185250781H	0.1000	0.1000	
$ 12 DCB Decachlorobiphenyl (Surr)							
1	11.567	11.569	-0.002	150776604H	0.1000	0.0920	
2	13.035	13.035	0.000	131126538H	0.1000	0.0983	
						RPD = 6.63	

Reagents:

GCAR1660CALL6_00015	Amount Added:	1.00	Units: mL	
PCBINT_00007	Amount Added:	0.01	Units: mL	Run Reagent

Report Date: 24-Mar-2018 12:55:37 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC16\20180323-21018.b\03238014.D

Injection Date: 23-Mar-2018 13:23:00 Instrument ID: CHGC16

Lims ID: IC

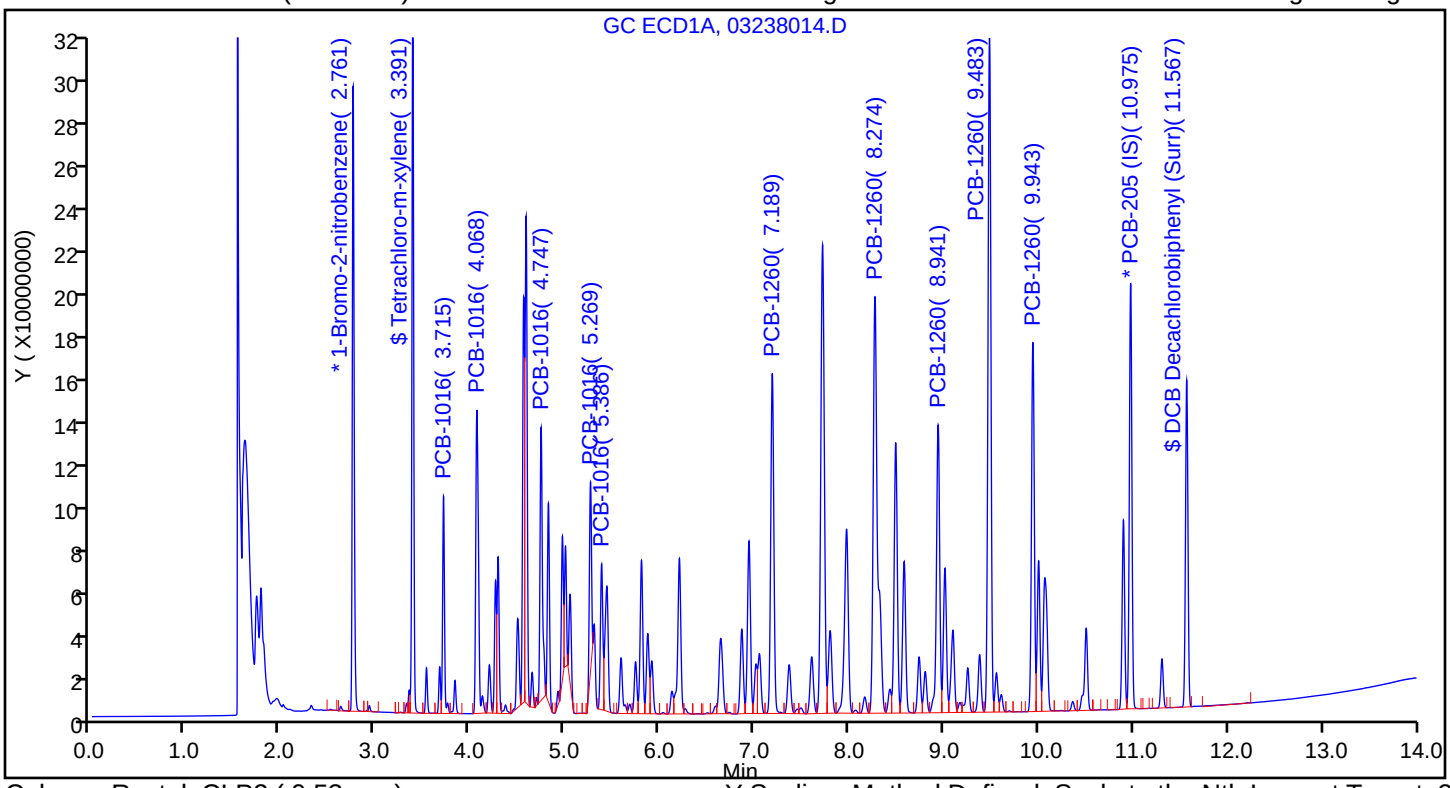
Client ID:

Operator ID: 402331 ALS Bottle#: 10 Worklist Smp#: 10

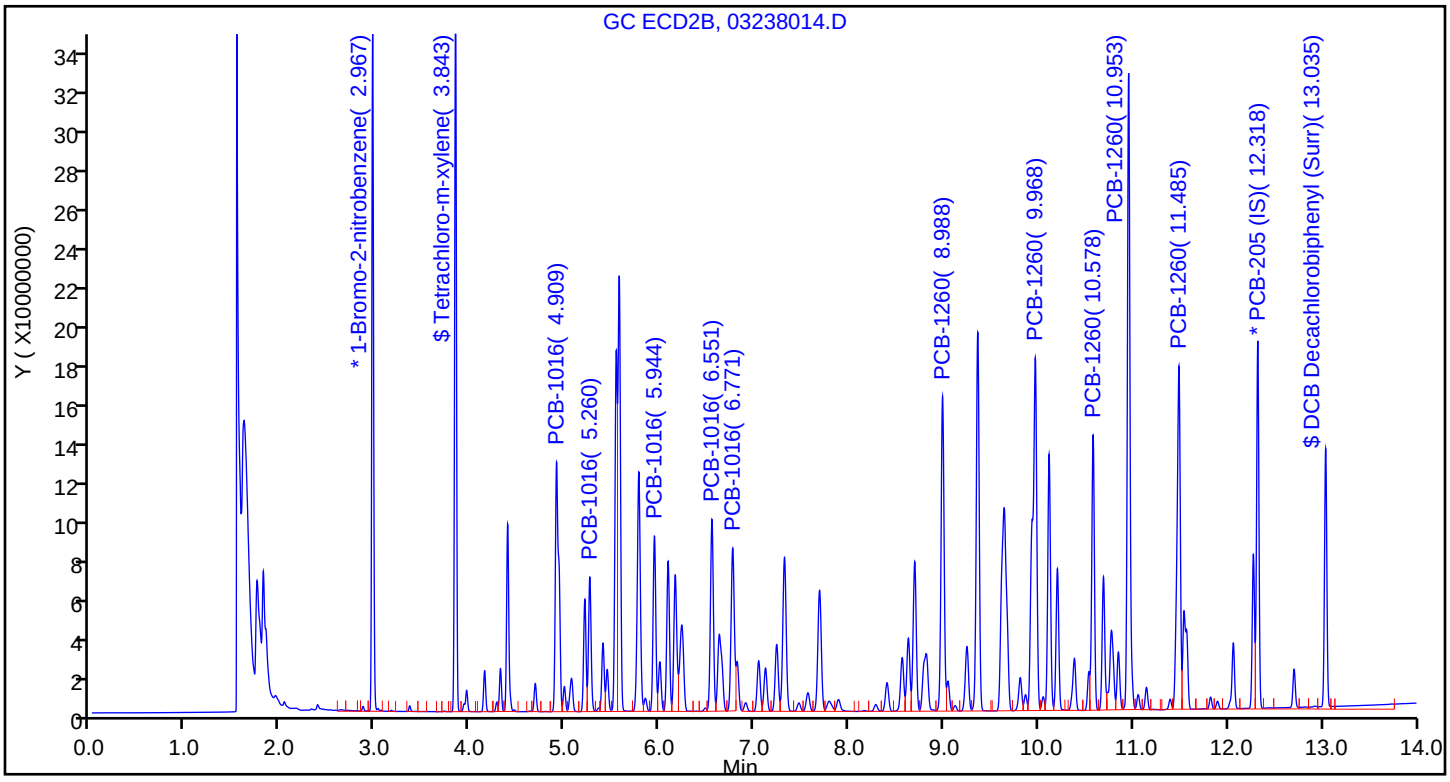
Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: PCB_CHGC16 Limit Group: GCS 8082A ICAL with IS

Column: Restek CLP 1 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Column: Restek CLP2 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC16\20180323-21018.b\03238015.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 23-Mar-2018 13:43:53 ALS Bottle#: 11 Worklist Smp#: 11
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0021018-011
Operator ID: 402331 Instrument ID: CHGC16
Sublist: chrom-PCB_CHGC16*sub25

Method: \\ChromNA\Pittsburgh\ChromData\CHGC16\20180323-21018.b\PCB_CHGC16.m
Limit Group: GCS 8082A ICAL with IS
Last Update: 24-Mar-2018 12:55:24 Calib Date: 23-Mar-2018 13:43:53
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHGC16\20180323-21018.b\03238015.D

Column 1 : Restek CLP 1 (0.53 mm) Det: GC ECD1A
Column 2 : Restek CLP2 (0.53 mm) Det: GC ECD2B
Process Host: XAWRK020

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 1-Bromo-2-nitrobenzene							
1	2.760	2.761	-0.001	292485354H	0.1000	0.1000	
2	2.967	2.966	0.001	347244357H	0.1000	0.1000	
$ 2 Tetrachloro-m-xylene							
1	3.391	3.391	0.000	649022953H	0.2000	0.1805	
2	3.843	3.843	0.000	696651617H	0.2000	0.1847	
						RPD = 2.32	
6 PCB-1016							
1	3.716	3.715	0.001	189317976H	4.00	3.30	
1	4.067	4.067	0.000	255404335H	4.00	3.22	
1	4.746	4.747	-0.001	248551009H	4.00	3.38	
1	5.268	5.269	-0.001	201182001H	4.00	3.37	
1	5.386	5.385	0.001	130932654H	4.00	3.87	
		Average of Peak Amounts =				3.43	
2	4.909	4.909	0.000	232515888H	4.00	3.18	
2	5.262	5.261	0.001	124897953H	4.00	3.45	
2	5.944	5.944	0.000	171874451H	4.00	3.50	
2	6.553	6.552	0.001	182325033H	4.00	3.35	
2	6.771	6.771	0.000	157810423H	4.00	3.87	
		Average of Peak Amounts =				3.47	
						RPD = 1.22	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
9 PCB-1260							
1	7.189	7.189	0.000	296560361H	4.00	3.21	
1	8.275	8.274	0.001	370385761H	4.00	3.32	
1	8.941	8.942	-0.001	258571678H	4.00	3.42	
1	9.483	9.483	0.000	624677054H	4.00	3.52	
1	9.942	9.943	-0.001	340528446H	4.00	3.51	
		Average of Peak Amounts =				3.40	
2	8.989	8.989	0.000	303792500H	4.00	3.44	
2	9.969	9.968	0.001	346301769H	4.00	3.56	
2	10.578	10.578	0.000	275084965H	4.00	3.58	
2	10.954	10.953	0.001	640555630H	4.00	3.77	
2	11.485	11.485	0.000	337402522H	4.00	3.53	
		Average of Peak Amounts =				3.58	
						RPD = 5.23	
* 16 PCB-205 (IS)							
1	10.975	10.975	0.000	209713263H	0.1000	0.1000	
2	12.318	12.318	0.001	189572675H	0.1000	0.1000	
$ 12 DCB Decachlorobiphenyl (Surr)							
1	11.568	11.569	-0.001	303679255H	0.2000	0.1733	
2	13.035	13.035	0.000	262623431H	0.2000	0.1935	
						RPD = 11.02	

Reagents:

GCAR1660CALL7_00016	Amount Added:	1.00	Units: mL	
PCBINT_00007	Amount Added:	0.01	Units: mL	Run Reagent

Report Date: 24-Mar-2018 12:55:27 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC16\20180323-21018.b\03238015.D

Injection Date: 23-Mar-2018 13:43:53 Instrument ID: CHGC16

Lims ID: IC

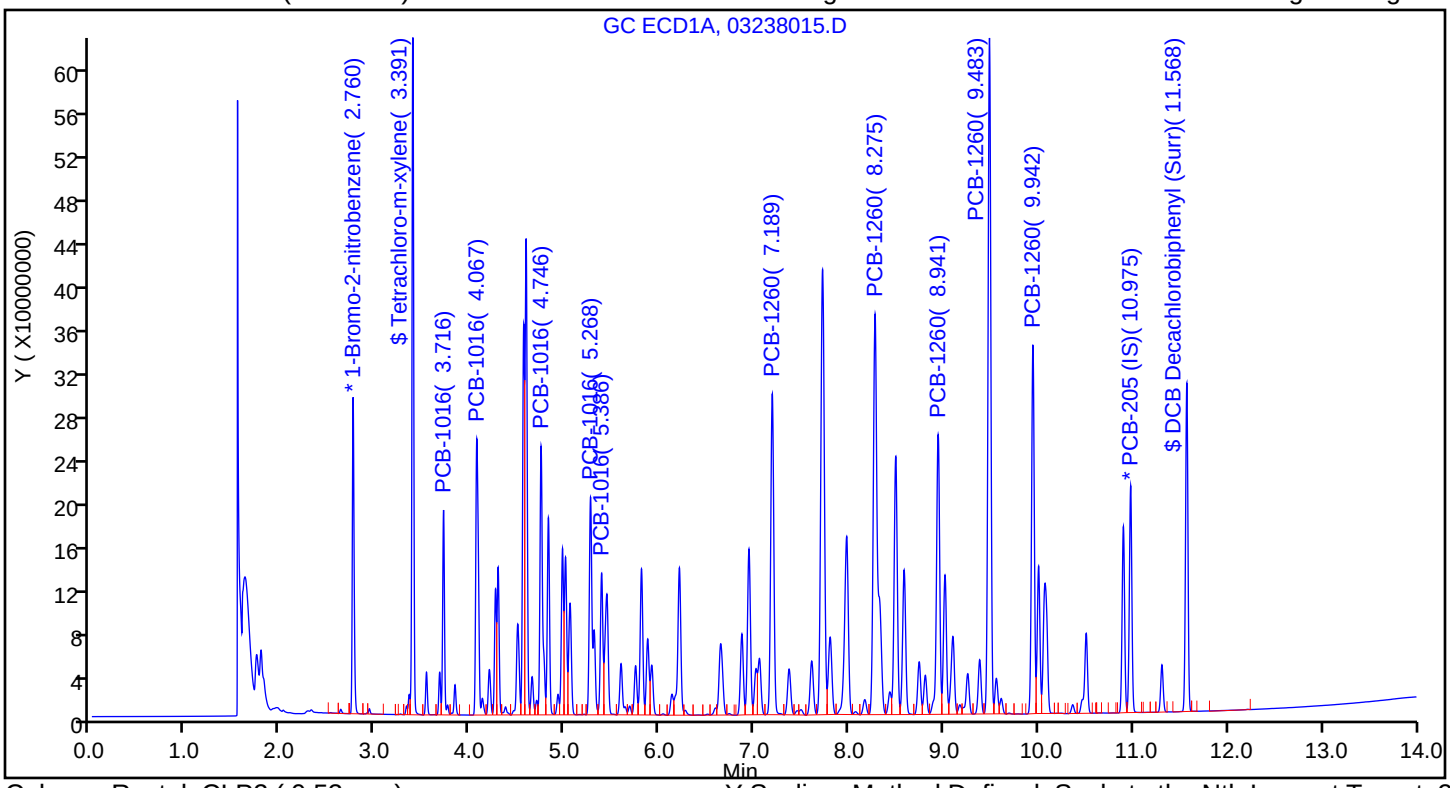
Client ID:

Operator ID: 402331 ALS Bottle#: 11 Worklist Smp#: 11

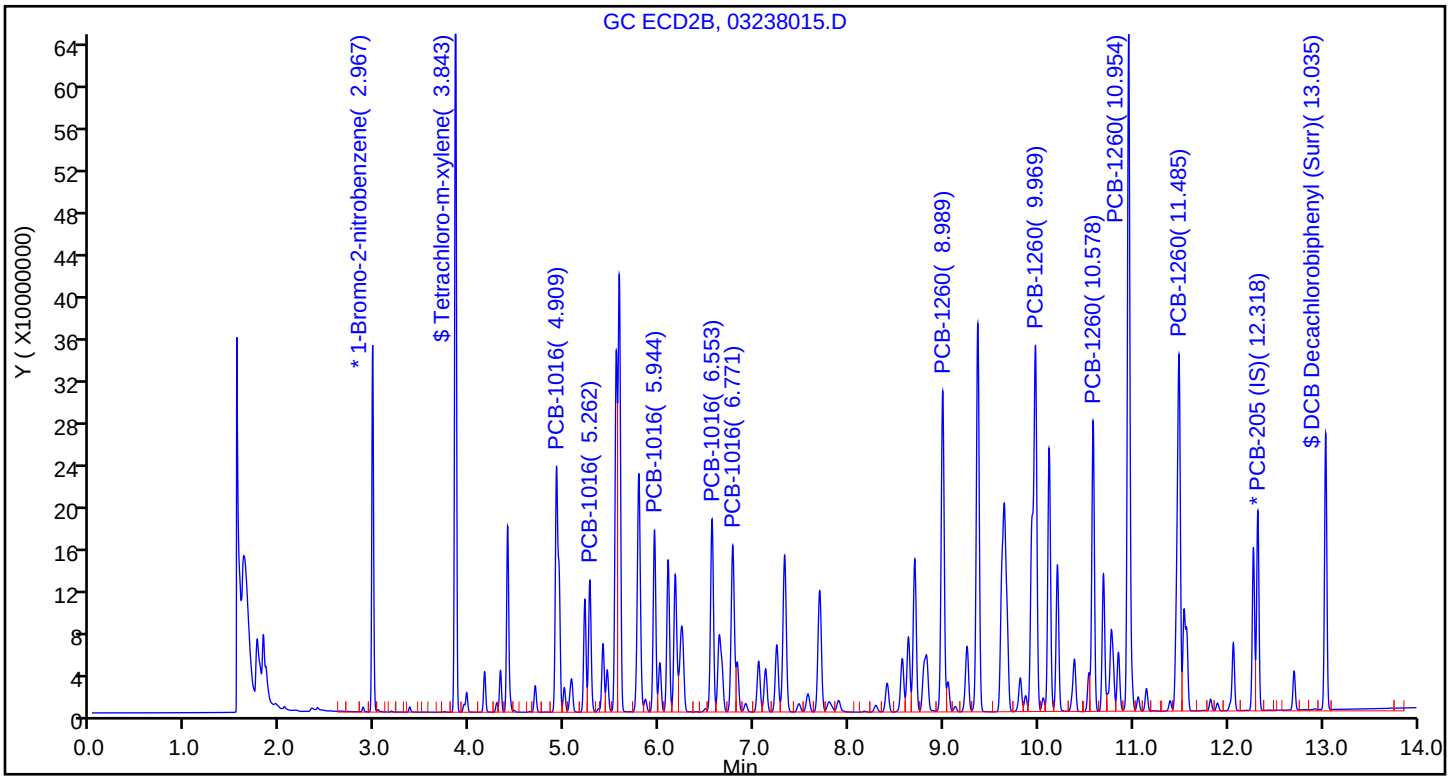
Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: PCB_CHGC16 Limit Group: GCS 8082A ICAL with IS

Column: Restek CLP 1 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Column: Restek CLP2 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Pittsburgh Job No.: 180-78460-1

SDG No.:

Lab Sample ID: CCV 180-247265/4 Calibration Date: 06/12/2018 08:55

Instrument ID: CHGC16 Calib Start Date: 03/23/2018 11:17

GC Column: RTX-CLP1 ID: 0.53(mm) Calib End Date: 03/23/2018 11:17

Lab File ID: 06128008.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1248 Peak 1	Ave	0.0130	0.0131		0.502	0.500	0.5	20.0
PCB-1248 Peak 2	Ave	0.0224	0.0288		0.643	0.500	28.6*	20.0
PCB-1248 Peak 3	Ave	0.0279	0.0358		0.643	0.500	28.6*	20.0
PCB-1248 Peak 4	Ave	0.0293	0.0372		0.633	0.500	26.7*	20.0
PCB-1248 Peak 5	Ave	0.0135	0.0173		0.640	0.500	27.9*	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-78460-1

SDG No.:

Lab Sample ID: CCV 180-247265/4 Calibration Date: 06/12/2018 08:55

Instrument ID: CHGC16 Calib Start Date: 03/23/2018 11:17

GC Column: RTX-CLP1 ID: 0.53(mm) Calib End Date: 03/23/2018 11:17

Lab File ID: 06128008.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1248 Peak 1	4.00	3.98	4.02
PCB-1248 Peak 2	4.88	4.86	4.90
PCB-1248 Peak 3	5.17	5.15	5.19
PCB-1248 Peak 4	5.76	5.74	5.78
PCB-1248 Peak 5	6.73	6.71	6.75

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC16\20180612-22163.b\06128008.D
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 12-Jun-2018 08:55:04 ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0022163-004
Operator ID: 402331 Instrument ID: CHGC16
Sublist: chrom-PCB_CHGC16*sub27

Method: \\ChromNA\Pittsburgh\ChromData\CHGC16\20180612-22163.b\PCB_CHGC16.m
Limit Group: GCS 8082A ICAL with IS
Last Update: 13-Jun-2018 12:13:33 Calib Date: 23-Mar-2018 13:43:53
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHGC16\20180323-21018.b\03238015.D

Column 1 : Restek CLP 1 (0.53 mm) Det: GC ECD1A
Column 2 : Restek CLP2 (0.53 mm) Det: GC ECD2B
Process Host: XAWRK027

First Level Reviewer: oravecj Date: 12-Jun-2018 09:23:48

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 1-Bromo-2-nitrobenzene							
1	2.725	2.725	0.000	280945715H	0.1000	0.1000	
2	2.951	2.951	0.000	383276777H	0.1000	0.1000	
7 PCB-1248							
1	4.001	4.001	0.000	18348747H	0.5000	0.5024	
1	4.882	4.882	0.000	40488565H	0.5000	0.6428	
1	5.170	5.170	0.000	50343879H	0.5000	0.6430	
1	5.760	5.760	0.000	52212136H	0.5000	0.6333	
1	6.731	6.731	0.000	24229883H	0.5000	0.6396	
		Average of Peak Amounts =				0.6122	
2	4.865	4.865	0.000	22409044H	0.5000	0.5517	
2	6.030	6.030	0.000	37609360H	0.5000	0.5443	
2	6.485	6.485	0.000	43134829H	0.5000	0.5385	
2	7.251	7.251	0.000	47359069H	0.5000	0.5348	
2	7.704	7.704	0.000	33378482H	0.5000	0.5407	
		Average of Peak Amounts =				0.5420	
						RPD = 12.17	
* 16 PCB-205 (IS)							
1	10.845	10.845	0.000	203150961H	0.1000	0.1000	
2	12.254	12.254	0.000	202340452H	0.1000	0.1000	

Reagents:

GCAR1248CALL4_00018 Amount Added: 1.00 Units: mL
PCBINT_00007 Amount Added: 0.01 Units: mL Run Reagent

Report Date: 13-Jun-2018 12:13:34 Chrom Revision: 2.2 11-May-2018 08:54:46

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC16\20180612-22163.b\06128008.D

Injection Date: 12-Jun-2018 08:55:04 Instrument ID: CHGC16

Lims ID: CCV

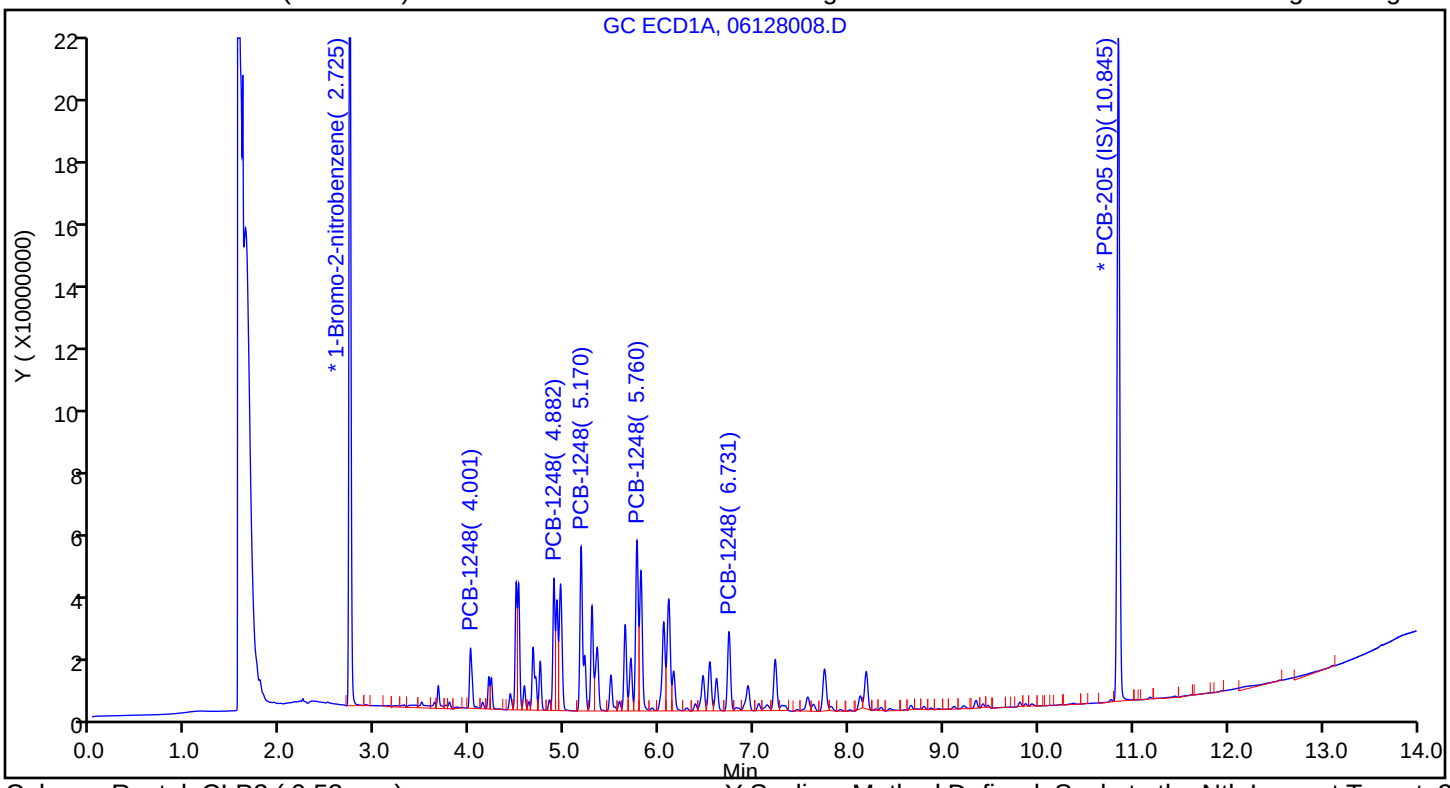
Client ID:

Operator ID: 402331 ALS Bottle#: 4 Worklist Smp#: 4

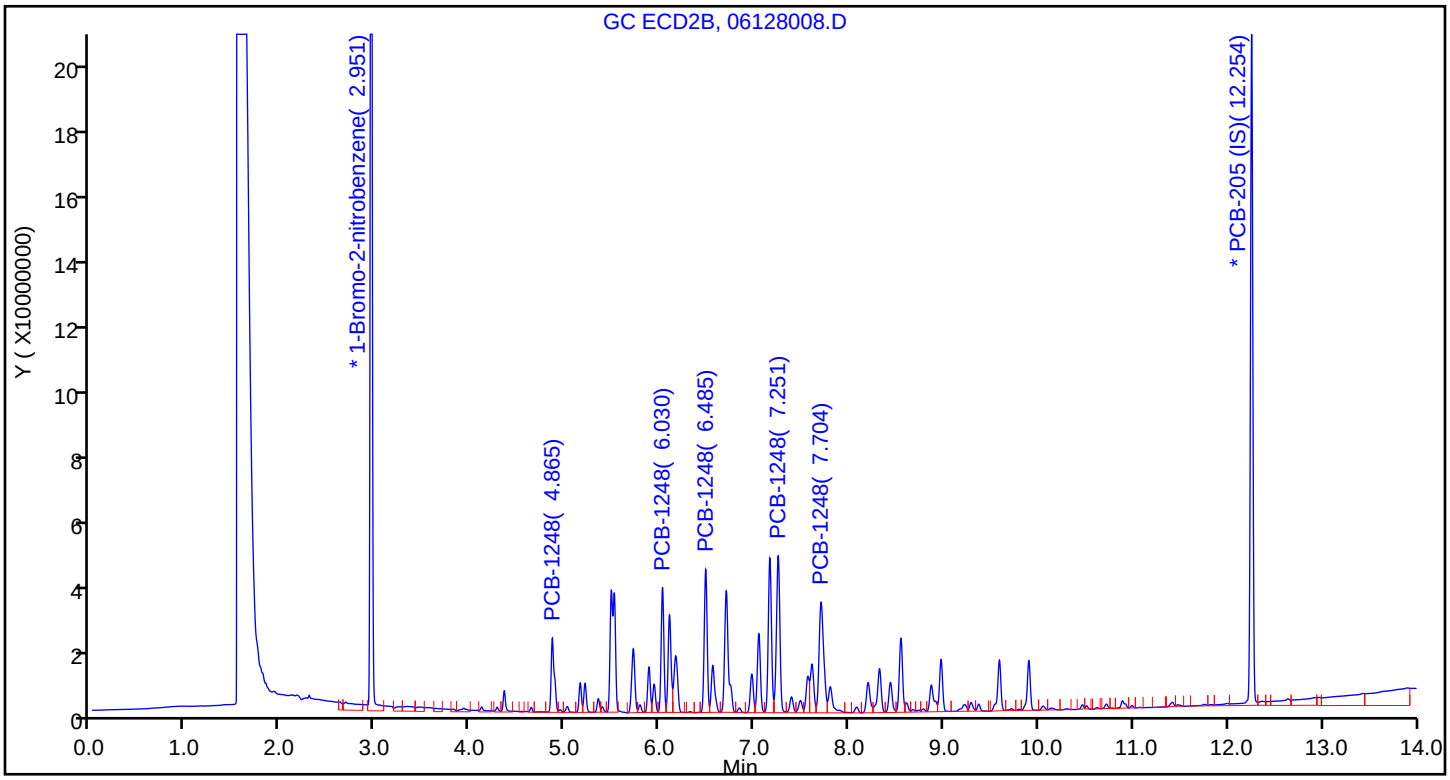
Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: PCB_CHGC16 Limit Group: GCS 8082A ICAL with IS

Column: Restek CLP 1 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Column: Restek CLP2 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Pittsburgh Job No.: 180-78460-1

SDG No.:

Lab Sample ID: CCV 180-247265/4 Calibration Date: 06/12/2018 08:55

Instrument ID: CHGC16 Calib Start Date: 03/23/2018 11:17

GC Column: RTX-CLP2 ID: 0.53(mm) Calib End Date: 03/23/2018 11:17

Lab File ID: 06128008.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1248 Peak 1	Ave	0.0106	0.0117		0.552	0.500	10.3	20.0
PCB-1248 Peak 2	Ave	0.0180	0.0196		0.544	0.500	8.9	20.0
PCB-1248 Peak 3	Ave	0.0209	0.0225		0.538	0.500	7.7	20.0
PCB-1248 Peak 4	Ave	0.0231	0.0247		0.535	0.500	7.0	20.0
PCB-1248 Peak 5	Ave	0.0161	0.0174		0.541	0.500	8.1	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-78460-1

SDG No.:

Lab Sample ID: CCV 180-247265/4 Calibration Date: 06/12/2018 08:55

Instrument ID: CHGC16 Calib Start Date: 03/23/2018 11:17

GC Column: RTX-CLP2 ID: 0.53(mm) Calib End Date: 03/23/2018 11:17

Lab File ID: 06128008.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1248 Peak 1	4.87	4.85	4.89
PCB-1248 Peak 2	6.03	6.01	6.05
PCB-1248 Peak 3	6.49	6.47	6.51
PCB-1248 Peak 4	7.25	7.23	7.27
PCB-1248 Peak 5	7.70	7.68	7.72

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC16\20180612-22163.b\06128008.D
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 12-Jun-2018 08:55:04 ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0022163-004
Operator ID: 402331 Instrument ID: CHGC16
Sublist: chrom-PCB_CHGC16*sub27

Method: \\ChromNA\Pittsburgh\ChromData\CHGC16\20180612-22163.b\PCB_CHGC16.m
Limit Group: GCS 8082A ICAL with IS
Last Update: 13-Jun-2018 12:13:33 Calib Date: 23-Mar-2018 13:43:53
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHGC16\20180323-21018.b\03238015.D

Column 1 : Restek CLP 1 (0.53 mm) Det: GC ECD1A
Column 2 : Restek CLP2 (0.53 mm) Det: GC ECD2B
Process Host: XAWRK027

First Level Reviewer: oravecj Date: 12-Jun-2018 09:23:48

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 1-Bromo-2-nitrobenzene							
1	2.725	2.725	0.000	280945715H	0.1000	0.1000	
2	2.951	2.951	0.000	383276777H	0.1000	0.1000	
7 PCB-1248							
1	4.001	4.001	0.000	18348747H	0.5000	0.5024	
1	4.882	4.882	0.000	40488565H	0.5000	0.6428	
1	5.170	5.170	0.000	50343879H	0.5000	0.6430	
1	5.760	5.760	0.000	52212136H	0.5000	0.6333	
1	6.731	6.731	0.000	24229883H	0.5000	0.6396	
		Average of Peak Amounts =				0.6122	
2	4.865	4.865	0.000	22409044H	0.5000	0.5517	
2	6.030	6.030	0.000	37609360H	0.5000	0.5443	
2	6.485	6.485	0.000	43134829H	0.5000	0.5385	
2	7.251	7.251	0.000	47359069H	0.5000	0.5348	
2	7.704	7.704	0.000	33378482H	0.5000	0.5407	
		Average of Peak Amounts =				0.5420	
						RPD = 12.17	
* 16 PCB-205 (IS)							
1	10.845	10.845	0.000	203150961H	0.1000	0.1000	
2	12.254	12.254	0.000	202340452H	0.1000	0.1000	

Reagents:

GCAR1248CALL4_00018 Amount Added: 1.00 Units: mL
PCBINT_00007 Amount Added: 0.01 Units: mL Run Reagent

Report Date: 13-Jun-2018 12:13:35 Chrom Revision: 2.2 11-May-2018 08:54:46

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC16\20180612-22163.b\06128008.D

Injection Date: 12-Jun-2018 08:55:04 Instrument ID: CHGC16

Lims ID: CCV

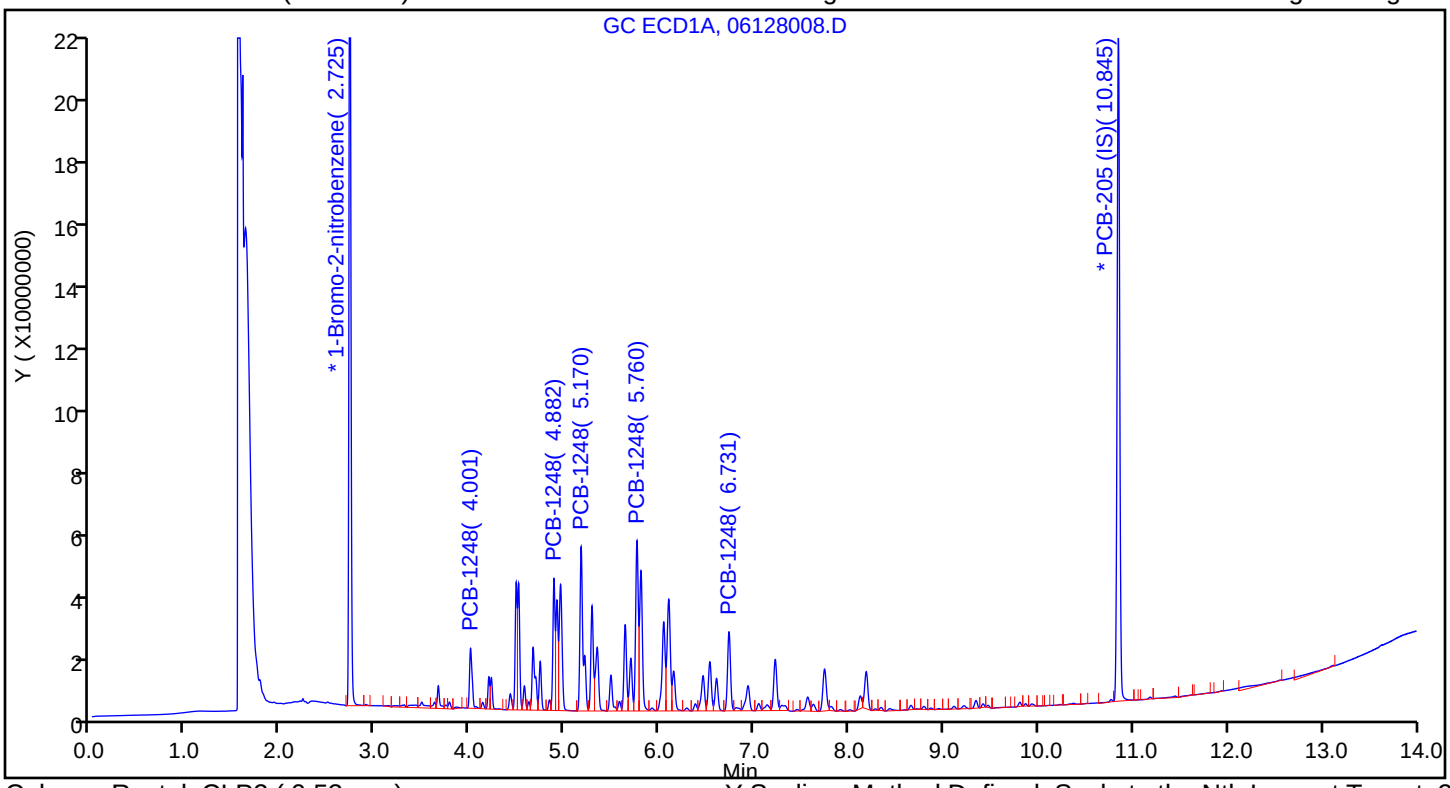
Client ID:

Operator ID: 402331 ALS Bottle#: 4 Worklist Smp#: 4

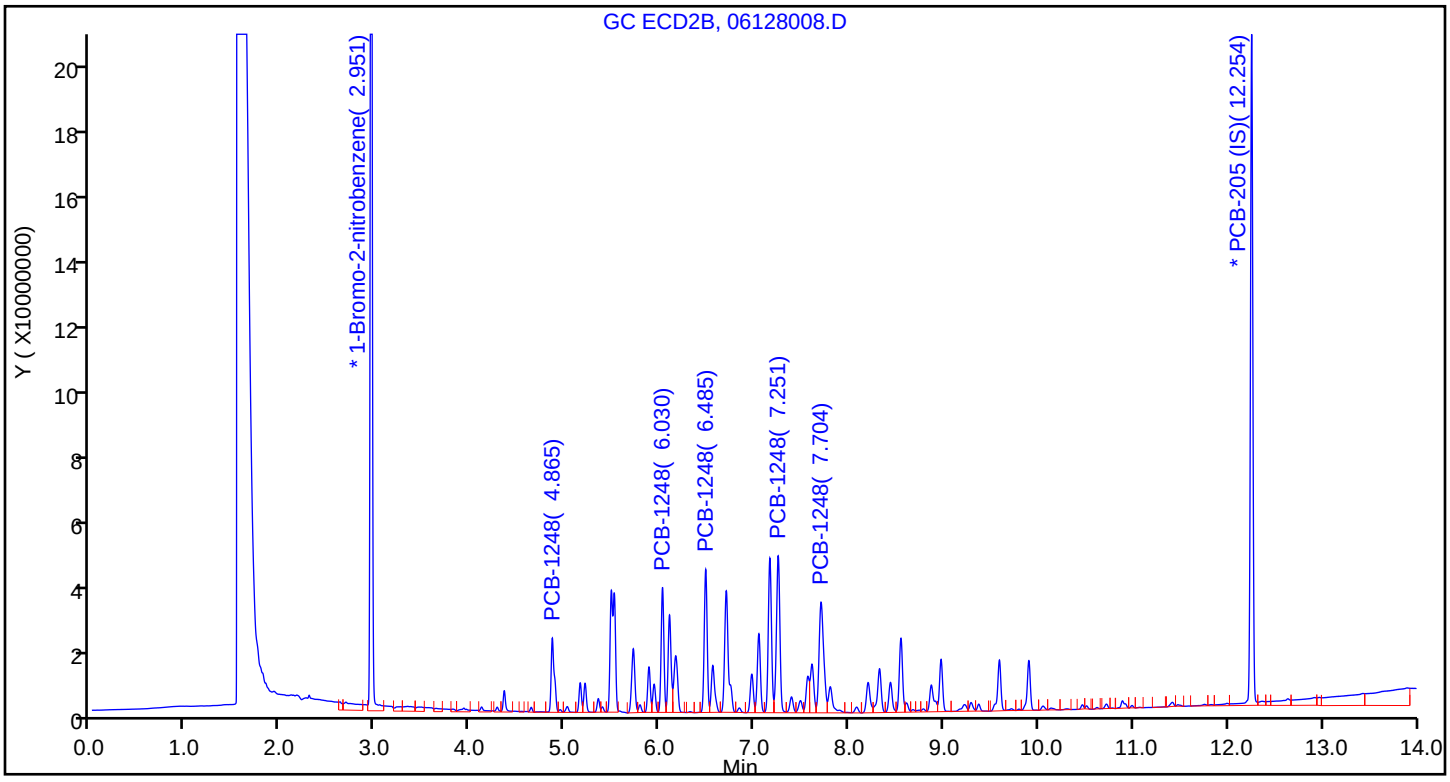
Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: PCB_CHGC16 Limit Group: GCS 8082A ICAL with IS

Column: Restek CLP 1 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Column: Restek CLP2 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Pittsburgh Job No.: 180-78460-1

SDG No.:

Lab Sample ID: CCVIS 180-247265/26 Calibration Date: 06/12/2018 16:39

Instrument ID: CHGC16 Calib Start Date: 03/23/2018 11:38

GC Column: RTX-CLP1 ID: 0.53(mm) Calib End Date: 03/23/2018 13:43

Lab File ID: 06128030.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Ave	0.0196	0.0195		0.496	0.500	-0.8	20.0
PCB-1016 Peak 2	Ave	0.0271	0.0241		0.444	0.500	-11.1	20.0
PCB-1016 Peak 3	Ave	0.0251	0.0240		0.477	0.500	-4.6	20.0
PCB-1016 Peak 4	Ave	0.0204	0.0193		0.473	0.500	-5.5	20.0
PCB-1016 Peak 5	Lin1		0.0122		0.520	0.500	4.1	20.0
PCB-1260 Peak 1	Ave	0.0440	0.0423		0.480	0.500	-4.0	20.0
PCB-1260 Peak 2	Ave	0.0532	0.0522		0.490	0.500	-1.9	20.0
PCB-1260 Peak 3	Ave	0.0360	0.0324		0.449	0.500	-10.2	20.0
PCB-1260 Peak 4	Ave	0.0845	0.0812		0.481	0.500	-3.9	20.0
PCB-1260 Peak 5	Ave	0.0463	0.0429		0.463	0.500	-7.3	20.0
Tetrachloro-m-xylene	Ave	1.230	1.235		0.0251	0.0250	0.4	20.0
DCB Decachlorobiphenyl (Surr)	Ave	0.8356	0.9203		0.0275	0.0250	10.1	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-78460-1

SDG No.:

Lab Sample ID: CCVIS 180-247265/26 Calibration Date: 06/12/2018 16:39

Instrument ID: CHGC16 Calib Start Date: 03/23/2018 11:38

GC Column: RTX-CLP1 ID: 0.53(mm) Calib End Date: 03/23/2018 13:43

Lab File ID: 06128030.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1016 Peak 1	3.66	3.64	3.68
PCB-1016 Peak 2	4.00	3.98	4.02
PCB-1016 Peak 3	4.66	4.64	4.68
PCB-1016 Peak 4	5.17	5.15	5.19
PCB-1016 Peak 5	5.29	5.27	5.31
PCB-1260 Peak 1	7.05	7.03	7.07
PCB-1260 Peak 2	8.12	8.10	8.14
PCB-1260 Peak 3	8.79	8.77	8.81
PCB-1260 Peak 4	9.34	9.32	9.36
PCB-1260 Peak 5	9.81	9.79	9.83
Tetrachloro-m-xylene	3.35	3.33	3.37
DCB Decachlorobiphenyl (Surr)	11.44	11.42	11.46

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC16\20180612-22163.b\06128030.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 12-Jun-2018 16:39:31 ALS Bottle#: 26 Worklist Smp#: 26
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0022163-026
Operator ID: 402331 Instrument ID: CHGC16
Sublist: chrom-PCB_CHGC16*sub25

Method: \\ChromNA\Pittsburgh\ChromData\CHGC16\20180612-22163.b\PCB_CHGC16.m
Limit Group: GCS 8082A ICAL with IS
Last Update: 13-Jun-2018 12:33:26 Calib Date: 23-Mar-2018 13:43:53
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHGC16\20180323-21018.b\03238015.D

Column 1 : Restek CLP 1 (0.53 mm) Det: GC ECD1A
Column 2 : Restek CLP2 (0.53 mm) Det: GC ECD2B
Process Host: XAWRK027

First Level Reviewer: oravecj Date: 13-Jun-2018 06:00:46

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 1-Bromo-2-nitrobenzene							
1	2.728	2.728	0.000	305695827H	0.1000	0.1000	
2	2.951	2.951	0.000	386868859H	0.1000	0.1000	
$ 2 Tetrachloro-m-xylene							
1	3.346	3.346	0.000	94366183H	0.0250	0.0251	
2	3.816	3.816	0.000	95657113H	0.0250	0.0228	
						RPD = 9.78	
6 PCB-1016							
1	3.661	3.661	0.000	29729094H	0.5000	0.4959	
1	4.003	4.003	0.000	36839847H	0.5000	0.4444	
1	4.664	4.664	0.000	36632912H	0.5000	0.4768	
1	5.171	5.171	0.000	29493555H	0.5000	0.4726	
1	5.286	5.286	0.000	18640010H	0.5000	0.5204	
		Average of Peak Amounts =				0.4820	
2	4.865	4.865	0.000	35303899H	0.5000	0.4334	
2	5.211	5.211	0.000	18791425H	0.5000	0.4597	
2	5.886	5.886	0.000	23238728H	0.5000	0.4252	
2	6.484	6.484	0.000	25566280H	0.5000	0.4221	
2	6.702	6.702	0.000	21370810H	0.5000	0.4632	
		Average of Peak Amounts =				0.4407	
						RPD = 8.95	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
9 PCB-1260							M
1	7.048	7.048	0.000	40559499H	0.5000	0.4801	
1	8.117	8.117	0.000	50064083H	0.5000	0.4904	
1	8.792	8.792	0.000	31062938H	0.5000	0.4489	
1	9.341	9.341	0.000	77990700H	0.5000	0.4806	
1	9.806	9.806	0.000	41208102H	0.5000	0.4634	
		Average of Peak Amounts =				0.4727	
2	8.911	8.911	0.000	37815971H	0.5000	0.4169	M
2	9.897	9.897	0.000	43041216H	0.5000	0.4309	M
2	10.508	10.508	0.000	32030416H	0.5000	0.4059	M
2	10.887	10.887	0.000	74646828H	0.5000	0.4278	M
2	11.418	11.418	0.000	40427014H	0.5000	0.4113	M
		Average of Peak Amounts =				0.4186	
						RPD = 12.14	
* 16 PCB-205 (IS)							
1	10.846	10.846	0.000	191992683H	0.1000	0.1000	
2	12.253	12.253	0.000	194931004H	0.1000	0.1000	
$ 12 DCB Decachlorobiphenyl (Surr)							M
1	11.444	11.444	0.000	44173573H	0.0250	0.0275	
2	12.967	12.967	0.000	42008917H	0.0250	0.0291	M
						RPD = 5.49	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

GCAR1660CALL4_00016	Amount Added:	1.00	Units: mL	
PCBINT_00007	Amount Added:	0.01	Units: mL	Run Reagent

Report Date: 13-Jun-2018 12:33:27 Chrom Revision: 2.2 11-May-2018 08:54:46

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC16\20180612-22163.b\06128030.D

Injection Date: 12-Jun-2018 16:39:31 Instrument ID: CHGC16

Lims ID: CCVIS

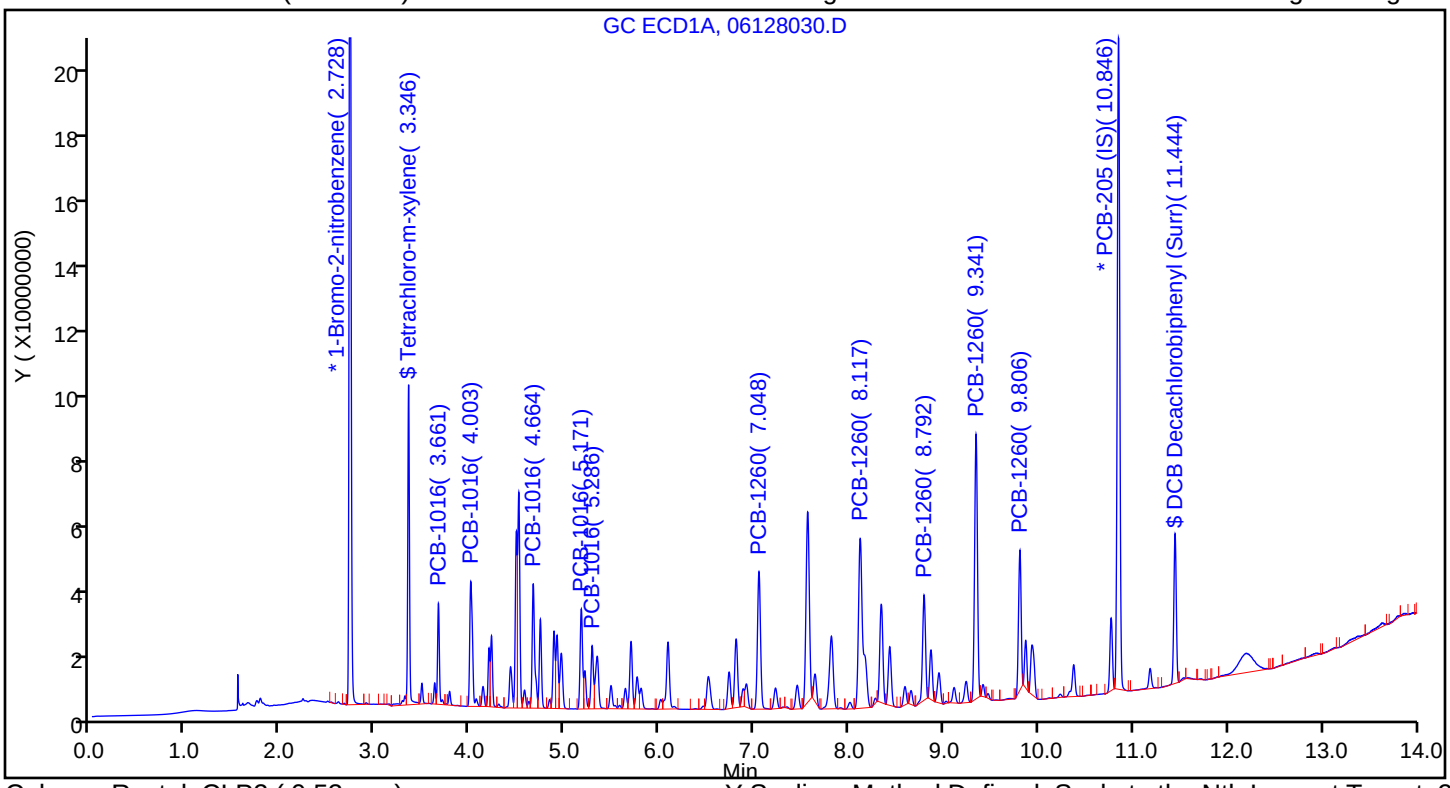
Client ID:

Operator ID: 402331 ALS Bottle#: 26 Worklist Smp#: 26

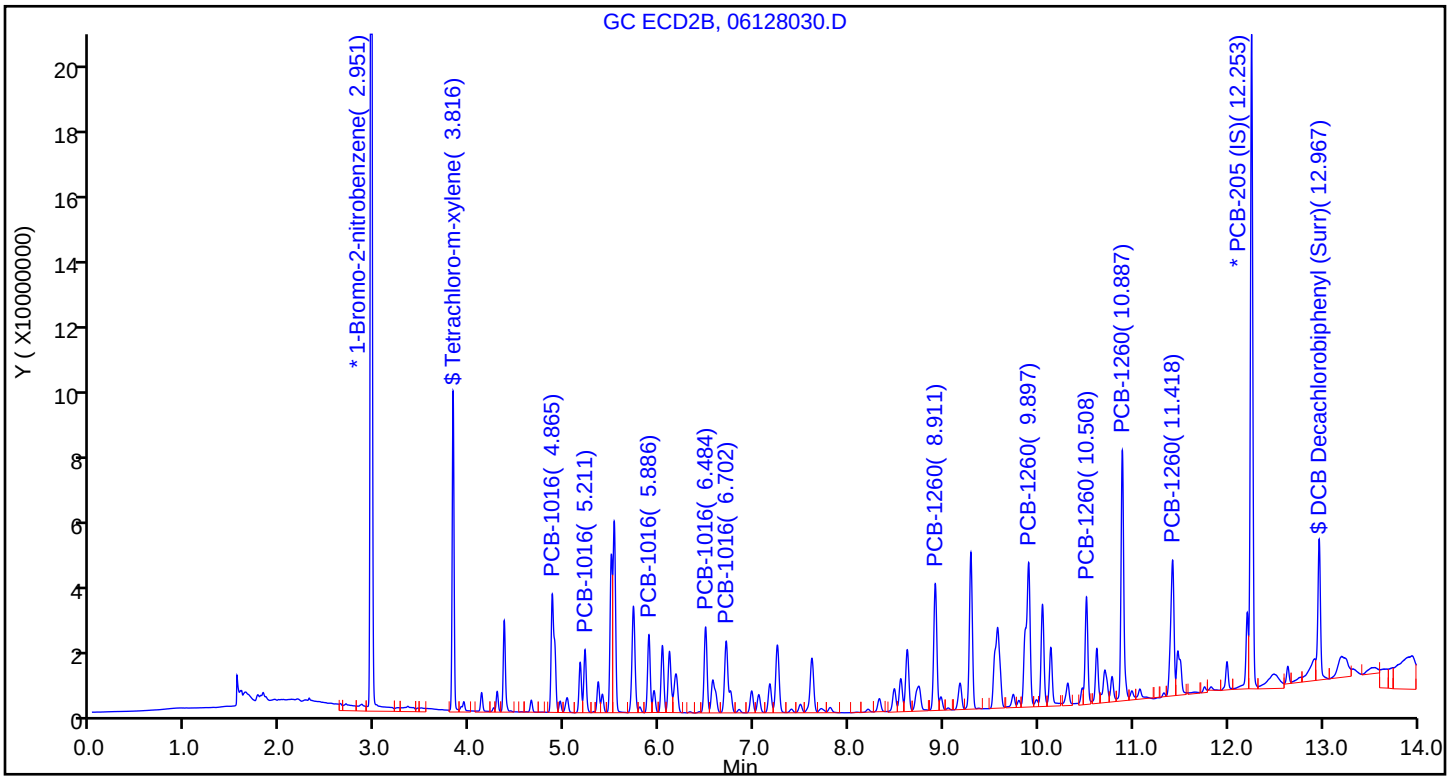
Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: PCB_CHGC16 Limit Group: GCS 8082A ICAL with IS

Column: Restek CLP 1 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Column: Restek CLP2 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Pittsburgh Job No.: 180-78460-1

SDG No.:

Lab Sample ID: CCVIS 180-247265/26 Calibration Date: 06/12/2018 16:39

Instrument ID: CHGC16 Calib Start Date: 03/23/2018 11:38

GC Column: RTX-CLP2 ID: 0.53(mm) Calib End Date: 03/23/2018 13:43

Lab File ID: 06128030.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Ave	0.0211	0.0183		0.433	0.500	-13.3	20.0
PCB-1016 Peak 2	Lin1		0.0097		0.460	0.500	-8.1	20.0
PCB-1016 Peak 3	Ave	0.0141	0.0120		0.425	0.500	-15.0	20.0
PCB-1016 Peak 4	Ave	0.0157	0.0132		0.422	0.500	-15.6	20.0
PCB-1016 Peak 5	Lin1		0.0111		0.463	0.500	-7.4	20.0
PCB-1260 Peak 1	Ave	0.0465	0.0388		0.417	0.500	-16.6	20.0
PCB-1260 Peak 2	Ave	0.0512	0.0442		0.431	0.500	-13.8	20.0
PCB-1260 Peak 3	Ave	0.0405	0.0329		0.406	0.500	-18.8	20.0
PCB-1260 Peak 4	Ave	0.0895	0.0766		0.428	0.500	-14.4	20.0
PCB-1260 Peak 5	Ave	0.0504	0.0415		0.411	0.500	-17.7	20.0
Tetrachloro-m-xylene	Ave	1.086	0.9890		0.0228	0.0250	-8.9	20.0
DCB Decachlorobiphenyl (Surr)	Lin1		0.8620		0.0291	0.0250	16.3	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-78460-1

SDG No.:

Lab Sample ID: CCVIS 180-247265/26 Calibration Date: 06/12/2018 16:39

Instrument ID: CHGC16 Calib Start Date: 03/23/2018 11:38

GC Column: RTX-CLP2 ID: 0.53(mm) Calib End Date: 03/23/2018 13:43

Lab File ID: 06128030.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1016 Peak 1	4.87	4.85	4.89
PCB-1016 Peak 2	5.21	5.19	5.23
PCB-1016 Peak 3	5.89	5.87	5.91
PCB-1016 Peak 4	6.48	6.46	6.50
PCB-1016 Peak 5	6.70	6.68	6.72
PCB-1260 Peak 1	8.91	8.89	8.93
PCB-1260 Peak 2	9.90	9.88	9.92
PCB-1260 Peak 3	10.51	10.49	10.53
PCB-1260 Peak 4	10.89	10.87	10.91
PCB-1260 Peak 5	11.42	11.40	11.44
Tetrachloro-m-xylene	3.82	3.80	3.84
DCB Decachlorobiphenyl (Surr)	12.97	12.95	12.99

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC16\20180612-22163.b\06128030.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 12-Jun-2018 16:39:31 ALS Bottle#: 26 Worklist Smp#: 26
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0022163-026
Operator ID: 402331 Instrument ID: CHGC16
Sublist: chrom-PCB_CHGC16*sub25

Method: \\ChromNA\Pittsburgh\ChromData\CHGC16\20180612-22163.b\PCB_CHGC16.m
Limit Group: GCS 8082A ICAL with IS
Last Update: 13-Jun-2018 12:33:26 Calib Date: 23-Mar-2018 13:43:53
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHGC16\20180323-21018.b\03238015.D

Column 1 : Restek CLP 1 (0.53 mm) Det: GC ECD1A
Column 2 : Restek CLP2 (0.53 mm) Det: GC ECD2B
Process Host: XAWRK027

First Level Reviewer: oravecj Date: 13-Jun-2018 06:00:46

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 1-Bromo-2-nitrobenzene							
1	2.728	2.728	0.000	305695827H	0.1000	0.1000	
2	2.951	2.951	0.000	386868859H	0.1000	0.1000	
$ 2 Tetrachloro-m-xylene							
1	3.346	3.346	0.000	94366183H	0.0250	0.0251	
2	3.816	3.816	0.000	95657113H	0.0250	0.0228	
						RPD = 9.78	
6 PCB-1016							
1	3.661	3.661	0.000	29729094H	0.5000	0.4959	
1	4.003	4.003	0.000	36839847H	0.5000	0.4444	
1	4.664	4.664	0.000	36632912H	0.5000	0.4768	
1	5.171	5.171	0.000	29493555H	0.5000	0.4726	
1	5.286	5.286	0.000	18640010H	0.5000	0.5204	
		Average of Peak Amounts =				0.4820	
2	4.865	4.865	0.000	35303899H	0.5000	0.4334	
2	5.211	5.211	0.000	18791425H	0.5000	0.4597	
2	5.886	5.886	0.000	23238728H	0.5000	0.4252	
2	6.484	6.484	0.000	25566280H	0.5000	0.4221	
2	6.702	6.702	0.000	21370810H	0.5000	0.4632	
		Average of Peak Amounts =				0.4407	
						RPD = 8.95	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
9 PCB-1260							M
1	7.048	7.048	0.000	40559499H	0.5000	0.4801	
1	8.117	8.117	0.000	50064083H	0.5000	0.4904	
1	8.792	8.792	0.000	31062938H	0.5000	0.4489	
1	9.341	9.341	0.000	77990700H	0.5000	0.4806	
1	9.806	9.806	0.000	41208102H	0.5000	0.4634	
		Average of Peak Amounts =				0.4727	
2	8.911	8.911	0.000	37815971H	0.5000	0.4169	M
2	9.897	9.897	0.000	43041216H	0.5000	0.4309	M
2	10.508	10.508	0.000	32030416H	0.5000	0.4059	M
2	10.887	10.887	0.000	74646828H	0.5000	0.4278	M
2	11.418	11.418	0.000	40427014H	0.5000	0.4113	M
		Average of Peak Amounts =				0.4186	
						RPD = 12.14	
* 16 PCB-205 (IS)							
1	10.846	10.846	0.000	191992683H	0.1000	0.1000	
2	12.253	12.253	0.000	194931004H	0.1000	0.1000	
$ 12 DCB Decachlorobiphenyl (Surr)							M
1	11.444	11.444	0.000	44173573H	0.0250	0.0275	
2	12.967	12.967	0.000	42008917H	0.0250	0.0291	M
						RPD = 5.49	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

GCAR1660CALL4_00016	Amount Added:	1.00	Units: mL	
PCBINT_00007	Amount Added:	0.01	Units: mL	Run Reagent

Report Date: 13-Jun-2018 12:33:28 Chrom Revision: 2.2 11-May-2018 08:54:46

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC16\20180612-22163.b\06128030.D

Injection Date: 12-Jun-2018 16:39:31 Instrument ID: CHGC16

Lims ID: CCVIS

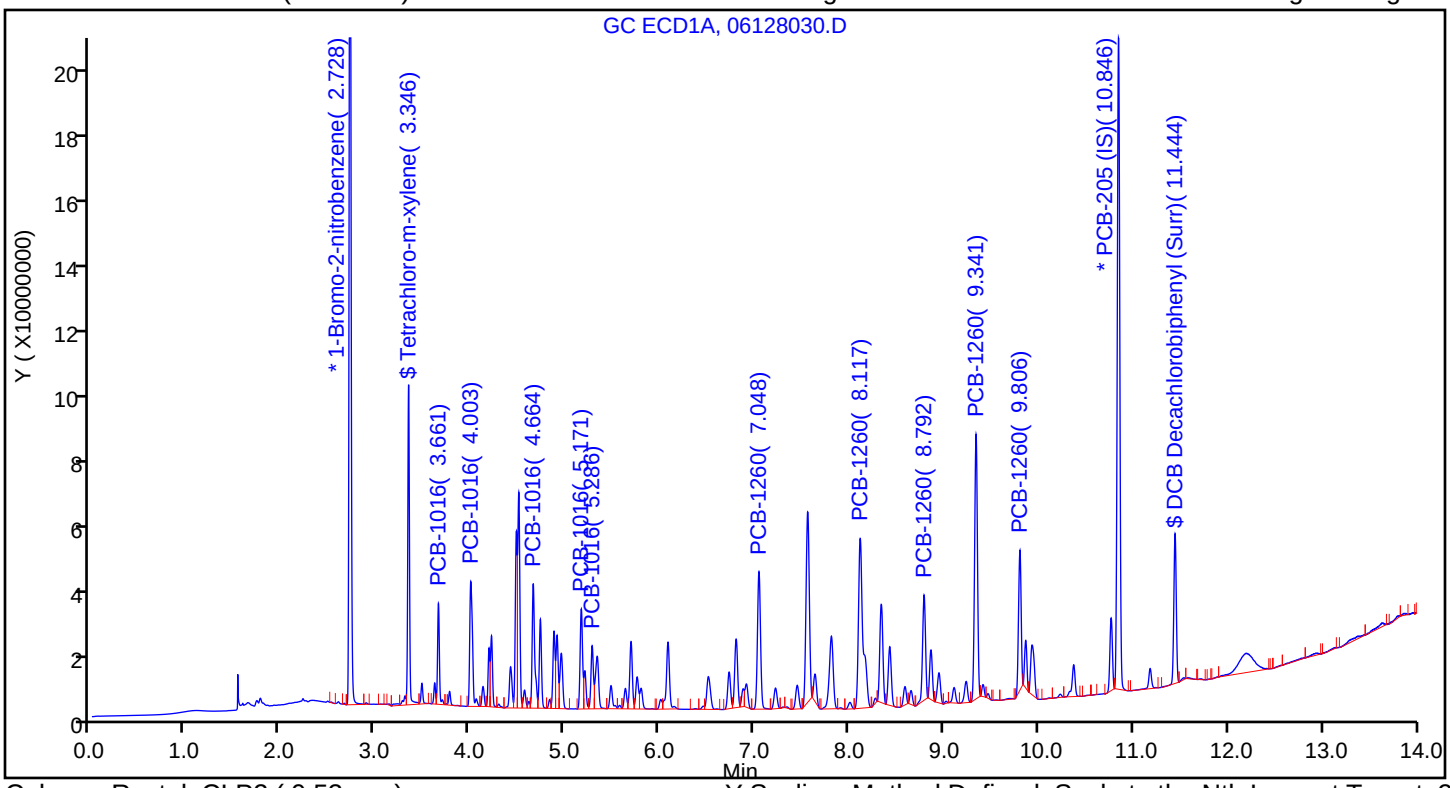
Client ID:

Operator ID: 402331 ALS Bottle#: 26 Worklist Smp#: 26

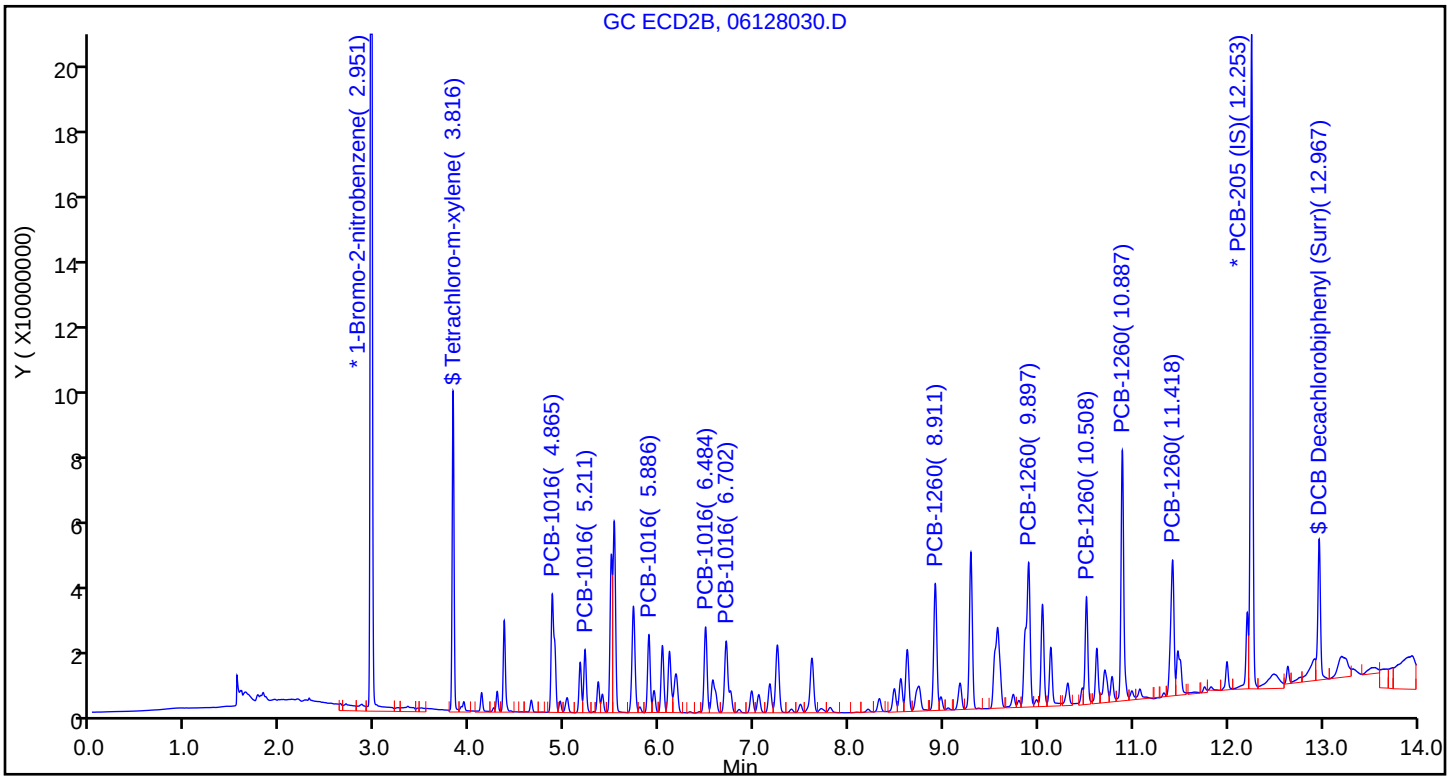
Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: PCB_CHGC16 Limit Group: GCS 8082A ICAL with IS

Column: Restek CLP 1 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Column: Restek CLP2 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Report Date: 13-Jun-2018 12:33:29 Chrom Revision: 2.2 11-May-2018 08:54:46

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC16\20180612-22163.b\06128030.D

Injection Date: 12-Jun-2018 16:39:31 Instrument ID: CHGC16

Lims ID: CCVIS

Client ID:

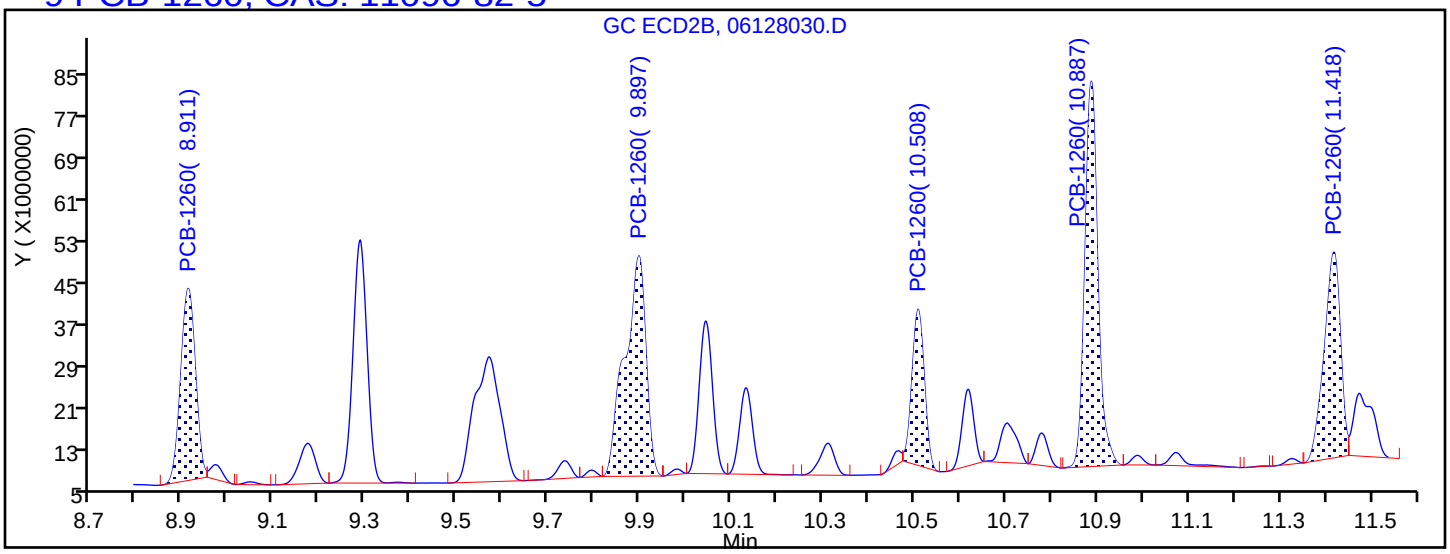
Operator ID: 402331 ALS Bottle#: 26 Worklist Smp#: 26

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: PCB_CHGC16 Limit Group: GCS 8082A ICAL with IS

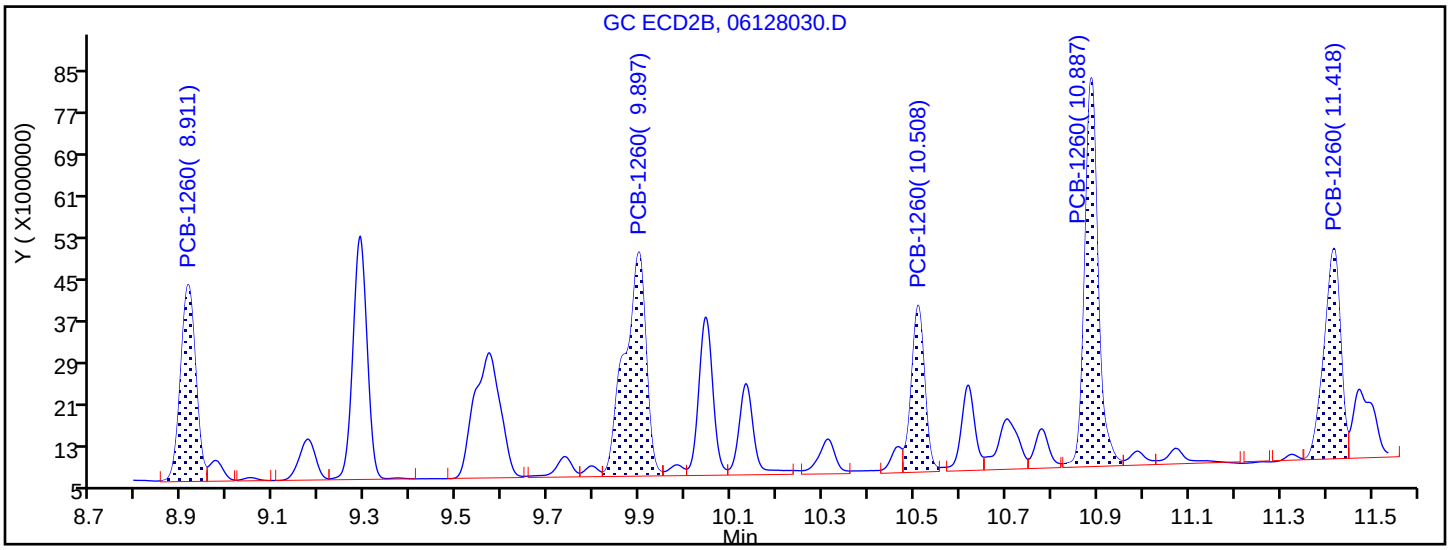
Column: Restek CLP2 (0.53 mm) Detector GC ECD2B

9 PCB-1260, CAS: 11096-82-5



Processing Integration Results

8.911	Response = 36797836
9.897	Response = 42225599
10.508	Response = 29924315
10.887	Response = 73821265
11.418	Response = 39433958



Manual Integration Results

8.911	Response = 37815971	M
9.897	Response = 43041216	M
10.508	Response = 32030416	M
10.887	Response = 74646828	M
11.418	Response = 40427014	M

Reviewer: oravecj, 13-Jun-2018 06:00:23

Audit Action: Assigned New Baseline Audit Reason: Sample matrix interference

Manual Integration/User Assign Peak Report

TestAmerica Pittsburgh

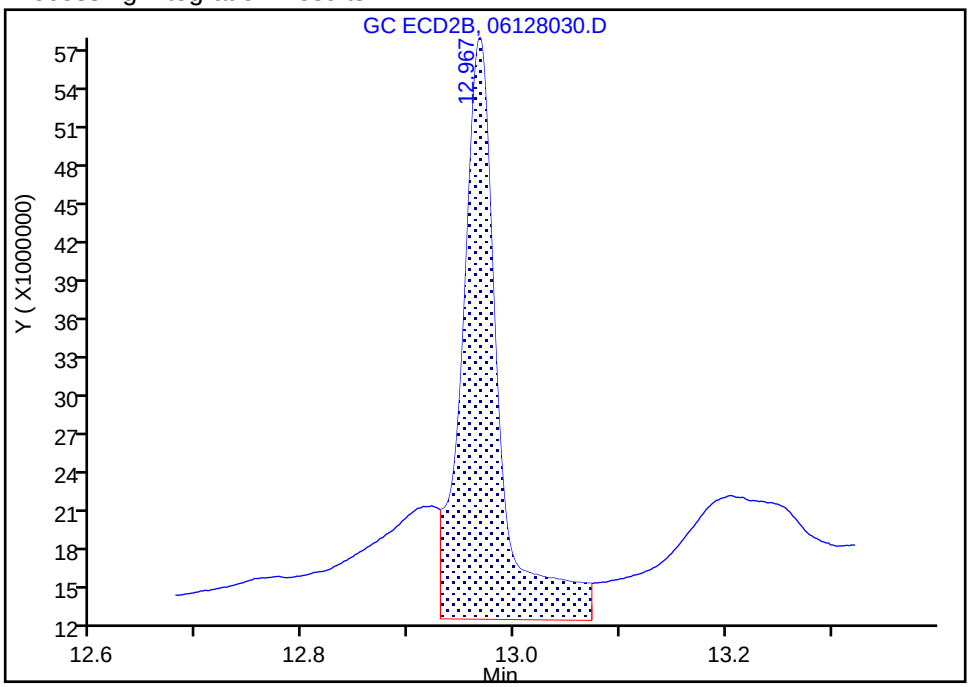
Data File:	\\ChromNA\Pittsburgh\ChromData\CHGC16\20180612-22163.b\06128030.D				
Injection Date:	12-Jun-2018 16:39:31	Instrument ID:	CHGC16		
Lims ID:	CCVIS				
Client ID:					
Operator ID:	402331	ALS Bottle#:	26	Worklist Smp#:	26
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	PCB_CHGC16	Limit Group:	GCS 8082A ICAL with IS		
Column:	Restek CLP2 (0.53 mm)	Detector	GC ECD2B		

$ 12 DCB Decachlorobiphenyl (Surr), CAS: 2051-24-3

Signal: 2

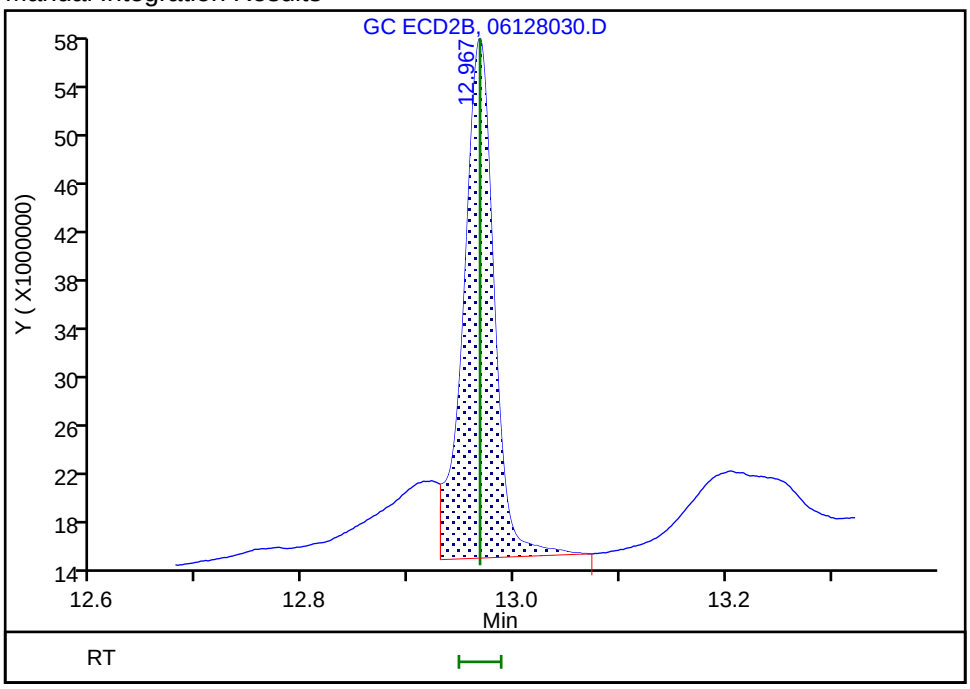
Processing Integration Results

RT: 12.97
Height: 44410472
Amount: 0.030819
Amount Units: ng



Manual Integration Results

RT: 12.97
Height: 42008917
Amount: 0.029087
Amount Units: ng



Reviewer: oravecj, 13-Jun-2018 06:00:42

Audit Action: Assigned New Baseline Audit Reason: Sample matrix interference

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-78460-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 180-247238/1-A

Matrix: Water | Lab File ID: 06128039.D

Analysis Method: 8082A | Date Collected:

Extraction Method: 3510C | Date Extracted: 06/11/2018 14:00

Sample wt/vol: 1000(mL) | Date Analyzed: 06/12/2018 19:50

Con. Extract Vol.: 1.0(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RTX-CLP1 ID: 0.53(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 247265 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	Arochlor 1016	0.0048	U	0.010	0.0048
11104-28-2	Arochlor 1221	0.0057	U	0.010	0.0057
11141-16-5	Arochlor 1232	0.0052	U	0.010	0.0052
53469-21-9	Arochlor 1242	0.0091	U	0.010	0.0091
12672-29-6	Arochlor 1248	0.0030	U	0.010	0.0030
11097-69-1	Arochlor 1254	0.0095	U	0.010	0.0095
11096-82-5	Arochlor 1260	0.0039	U	0.010	0.0039

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl (Surr)	73		46-126
877-09-8	Tetrachloro-m-xylene	64		36-130

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC16\20180612-22163.b\06128039.D
Lims ID: MB 180-247238/1-A
Client ID:
Sample Type: MB
Inject. Date: 12-Jun-2018 19:50:57 ALS Bottle#: 35 Worklist Smp#: 35
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0022163-035
Operator ID: 402331 Instrument ID: CHGC16

Method: \\ChromNA\Pittsburgh\ChromData\CHGC16\20180612-22163.b\PCB_CHGC16.m
Limit Group: GCS 8082A ICAL with IS
Last Update: 13-Jun-2018 12:19:16 Calib Date: 23-Mar-2018 13:43:53
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHGC16\20180323-21018.b\03238015.D

Column 1 : Restek CLP 1 (0.53 mm) Det: GC ECD1A
Column 2 : Restek CLP2 (0.53 mm) Det: GC ECD2B
Process Host: XAWRK027

First Level Reviewer: oravecj Date: 13-Jun-2018 12:17:41

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 1-Bromo-2-nitrobenzene							
1	2.729	2.727	0.002	341403007H	0.1000	0.1000	
2	2.953	2.952	0.000	452463784H	0.1000	0.1000	
4 PCB-1221							
1		2.898				ND	
1		3.488					
1		3.662					
2		3.339					
2		4.120					
2		4.358					
$ 2 Tetrachloro-m-xylene							
1	3.348	3.344	0.004	213940606H	0.0800	0.0510	
2	3.818	3.816	0.002	224965637H	0.0800	0.0458	
						RPD = 10.73	
3 PCB-1232							
1		3.487				ND	
1		3.662					
1		4.003					
1		4.664					
1		5.172					
2		4.120					
2		4.358					
2		4.866					
2		5.725					
2		7.251					

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
6 PCB-1016							
1		3.660				ND	
1		4.002					
1		4.662					
1		5.169					
1		5.284					
2		4.864					
2		5.209					
2		5.885					
2		6.484					
2		6.701					
5 PCB-1242							
1		3.662				ND	
1		4.005					
1		4.665					
1		5.173					
1		5.762					
2		4.357					
2		5.521					
2		6.486					
2		7.253					
2		7.705					
7 PCB-1248							
1		4.001				ND	
1		4.882					
1		5.170					
1		5.760					
1		6.731					
2		4.865					
2		6.030					
2		6.485					
2		7.251					
2		7.704					
8 PCB-1254							U
1		6.090				ND	
1		6.736					
1		7.225					
1		7.568					
1		8.121					
2		7.244					
2		8.550					
2		8.974					
2		9.291					
2		9.901					

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
9 PCB-1260							U
1		7.047				ND	
1		8.118					
1		8.793					
1		9.339					
1		9.804					
2		8.911					
2		9.897					
2		10.509					
2		10.887					
2		11.418					
10 PCB-1262							U
1		8.342				ND	
1		8.794					
1		9.343					
1		9.806					
1		9.935					
2		9.289					
2		10.046					
2		10.511					
2		10.889					
2		11.412					
11 PCB-1268							U
1		9.867				ND	
1		9.929					
1		10.231					
1		11.181					
2		11.407					
2		11.473					
2		11.826					
2		12.636					
* 16 PCB-205 (IS)							
1	10.849	10.849	0.000	265091449H	0.1000	0.1000	
2	12.254	12.255	0.000	262276770H	0.1000	0.1000	
$ 12 DCB Decachlorobiphenyl (Surr)							
1	11.448	11.442	0.006	129214146H	0.0800	0.0583	
2	12.968	12.967	0.001	119205809H	0.0800	0.0627	
						RPD = 7.19	
15 1260 Res 2							
1		0.000				ND	
2		0.000					
14 1260 Res 3							
1		0.000				ND	
2		0.000					
13 1260 Res 1							
1		0.000				ND	
2		0.000					

QC Flag Legend

Review Flags

U - Marked Undetected

Reagents:

PCBINT_00007 Amount Added: 0.01 Units: mL Run Reagent

Report Date: 13-Jun-2018 12:19:50 Chrom Revision: 2.2 11-May-2018 08:54:46

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC16\20180612-22163.b\06128039.D

Injection Date: 12-Jun-2018 19:50:57 Instrument ID: CHGC16

Lims ID: MB 180-247238/1-A

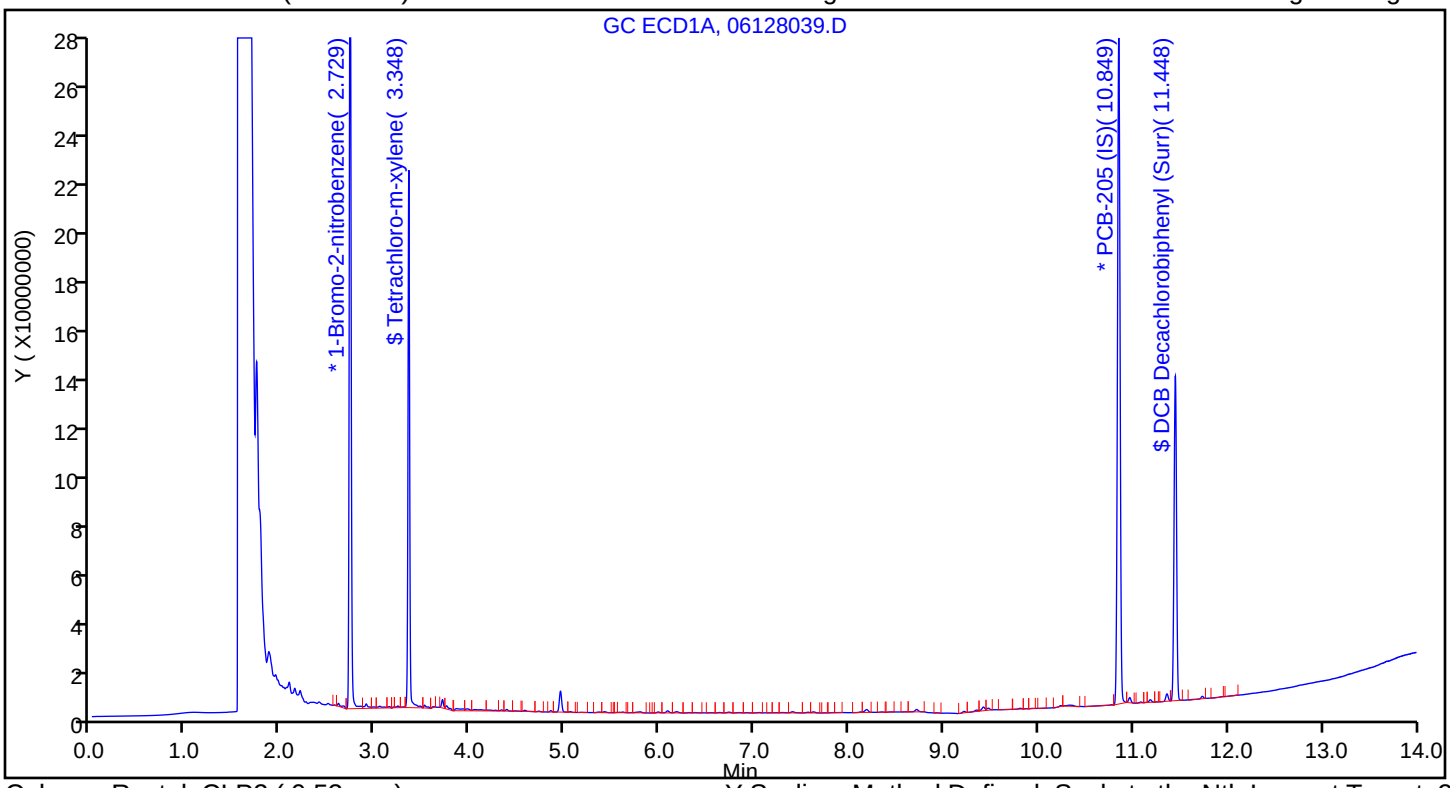
Client ID:

Operator ID: 402331 ALS Bottle#: 35 Worklist Smp#: 35

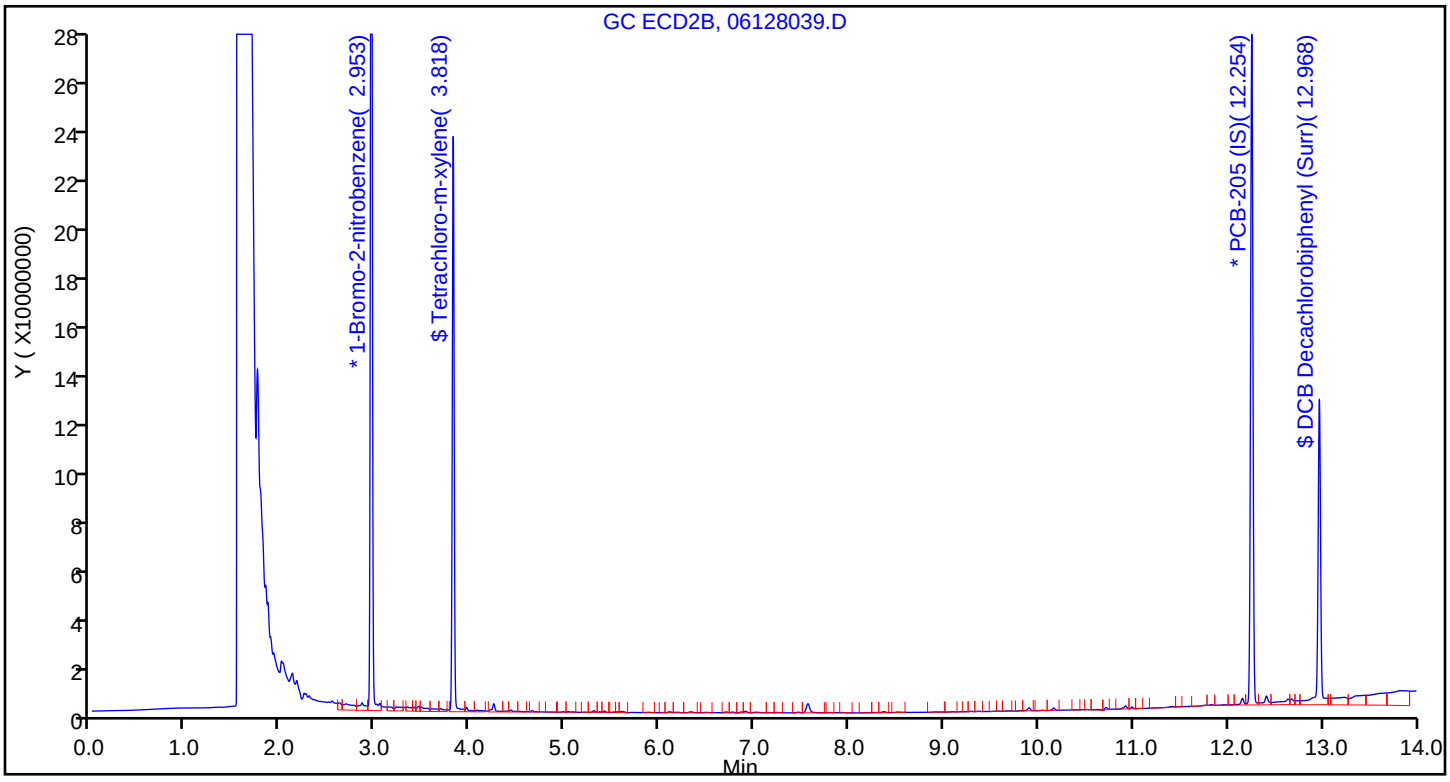
Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: PCB_CHGC16 Limit Group: GCS 8082A ICAL with IS

Column: Restek CLP 1 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Column: Restek CLP2 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



User Disabled Compound Report

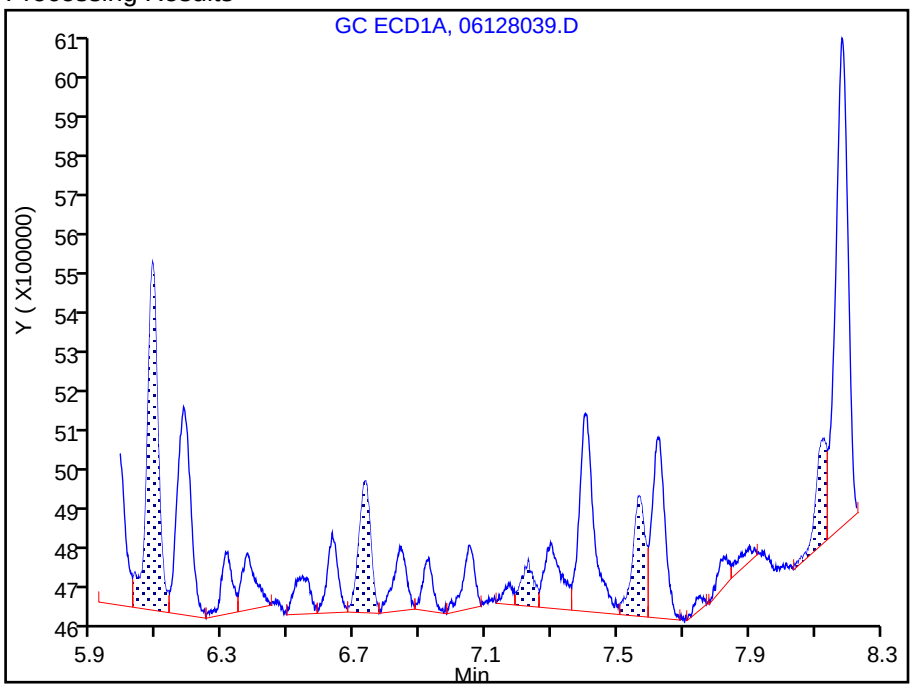
TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC16\20180612-22163.b\06128039.D
Injection Date: 12-Jun-2018 19:50:57 Instrument ID: CHGC16
Lims ID: MB 180-247238/1-A
Client ID:
Operator ID: 402331 ALS Bottle#: 35 Worklist Smp#: 35
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCB_CHGC16 Limit Group: GCS 8082A ICAL with IS

8 PCB-1254, Detector: 1, GC ECD1A

Processing Results

Exp RT	RT	Response	Amount
6.09	6.08	809889	0.006239
6.74	6.73	307652	0.001873
7.22	7.23	107919	0.000928
7.57	7.57	280259	0.003021
8.12	8.13	243241	0.002046
		Average =	0.002821



Reviewer: oravecj, 13-Jun-2018 12:17:16
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

User Disabled Compound Report

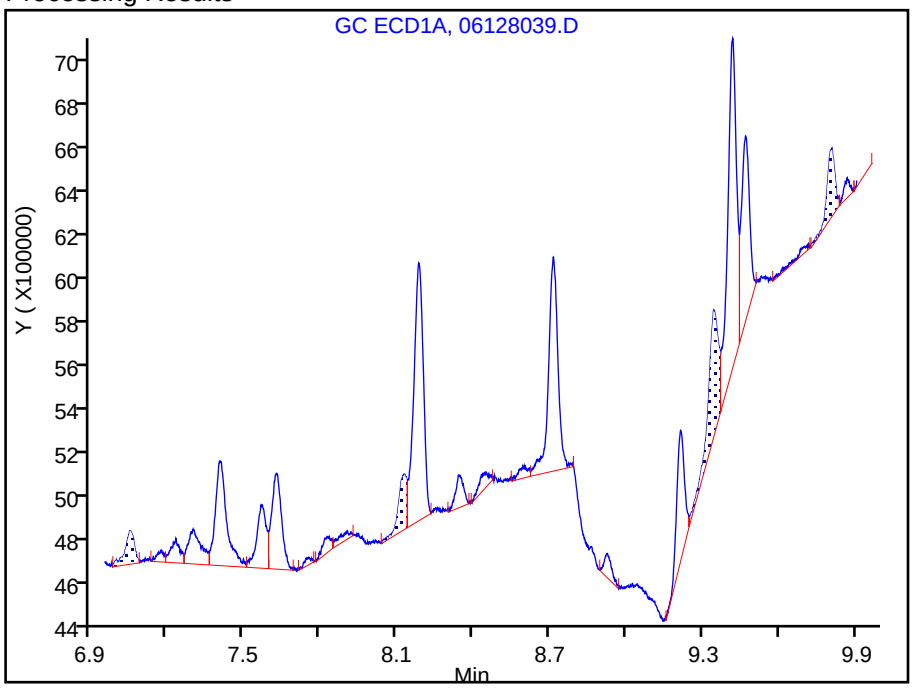
TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC16\20180612-22163.b\06128039.D
Injection Date: 12-Jun-2018 19:50:57 Instrument ID: CHGC16
Lims ID: MB 180-247238/1-A
Client ID:
Operator ID: 402331 ALS Bottle#: 35 Worklist Smp#: 35
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCB_CHGC16 Limit Group: GCS 8082A ICAL with IS

9 PCB-1260, Detector: 1, GC ECD1A

Processing Results

Exp RT	RT	Response	Amount
7.05	7.05	148222	0.001271
8.12	8.13	243241	0.001726
8.79			
9.34	9.35	560886	0.002503
9.80	9.81	302880	0.002467
		Average =	0.001992



Reviewer: oravecj, 13-Jun-2018 12:17:14
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh Job No.: 180-78460-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 180-247238/1-A

Matrix: Water Lab File ID: 06128039.D

Analysis Method: 8082A Date Collected:

Extraction Method: 3510C Date Extracted: 06/11/2018 14:00

Sample wt/vol: 1000(mL) Date Analyzed: 06/12/2018 19:50

Con. Extract Vol.: 1.0(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: RTX-CLP2 ID: 0.53(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 247265 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl (Surr)	78		46-126
877-09-8	Tetrachloro-m-xylene	57		36-130

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC16\20180612-22163.b\06128039.D
Lims ID: MB 180-247238/1-A
Client ID:
Sample Type: MB
Inject. Date: 12-Jun-2018 19:50:57 ALS Bottle#: 35 Worklist Smp#: 35
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0022163-035
Operator ID: 402331 Instrument ID: CHGC16

Method: \\ChromNA\Pittsburgh\ChromData\CHGC16\20180612-22163.b\PCB_CHGC16.m
Limit Group: GCS 8082A ICAL with IS
Last Update: 13-Jun-2018 12:19:16 Calib Date: 23-Mar-2018 13:43:53
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHGC16\20180323-21018.b\03238015.D

Column 1 : Restek CLP 1 (0.53 mm) Det: GC ECD1A
Column 2 : Restek CLP2 (0.53 mm) Det: GC ECD2B
Process Host: XAWRK027

First Level Reviewer: oravecj Date: 13-Jun-2018 12:17:41

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 1-Bromo-2-nitrobenzene							
1	2.729	2.727	0.002	341403007H	0.1000	0.1000	
2	2.953	2.952	0.000	452463784H	0.1000	0.1000	
4 PCB-1221							
1		2.898				ND	
1		3.488					
1		3.662					
2		3.339					
2		4.120					
2		4.358					
$ 2 Tetrachloro-m-xylene							
1	3.348	3.344	0.004	213940606H	0.0800	0.0510	
2	3.818	3.816	0.002	224965637H	0.0800	0.0458	
						RPD = 10.73	
3 PCB-1232							
1		3.487				ND	
1		3.662					
1		4.003					
1		4.664					
1		5.172					
2		4.120					
2		4.358					
2		4.866					
2		5.725					
2		7.251					

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
6 PCB-1016							
1		3.660				ND	
1		4.002					
1		4.662					
1		5.169					
1		5.284					
2		4.864					
2		5.209					
2		5.885					
2		6.484					
2		6.701					
5 PCB-1242							
1		3.662				ND	
1		4.005					
1		4.665					
1		5.173					
1		5.762					
2		4.357					
2		5.521					
2		6.486					
2		7.253					
2		7.705					
7 PCB-1248							
1		4.001				ND	
1		4.882					
1		5.170					
1		5.760					
1		6.731					
2		4.865					
2		6.030					
2		6.485					
2		7.251					
2		7.704					
8 PCB-1254							U
1		6.090				ND	
1		6.736					
1		7.225					
1		7.568					
1		8.121					
2		7.244					
2		8.550					
2		8.974					
2		9.291					
2		9.901					

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
9 PCB-1260							U
1		7.047				ND	
1		8.118					
1		8.793					
1		9.339					
1		9.804					
2		8.911					
2		9.897					
2		10.509					
2		10.887					
2		11.418					
10 PCB-1262							U
1		8.342				ND	
1		8.794					
1		9.343					
1		9.806					
1		9.935					
2		9.289					
2		10.046					
2		10.511					
2		10.889					
2		11.412					
11 PCB-1268							U
1		9.867				ND	
1		9.929					
1		10.231					
1		11.181					
2		11.407					
2		11.473					
2		11.826					
2		12.636					
* 16 PCB-205 (IS)							
1	10.849	10.849	0.000	265091449H	0.1000	0.1000	
2	12.254	12.255	0.000	262276770H	0.1000	0.1000	
$ 12 DCB Decachlorobiphenyl (Surr)							
1	11.448	11.442	0.006	129214146H	0.0800	0.0583	
2	12.968	12.967	0.001	119205809H	0.0800	0.0627	
						RPD = 7.19	
15 1260 Res 2							
1		0.000				ND	
2		0.000					
14 1260 Res 3							
1		0.000				ND	
2		0.000					
13 1260 Res 1							
1		0.000				ND	
2		0.000					

QC Flag Legend

Review Flags

U - Marked Undetected

Reagents:

PCBINT_00007 Amount Added: 0.01 Units: mL Run Reagent

Report Date: 13-Jun-2018 12:19:51 Chrom Revision: 2.2 11-May-2018 08:54:46

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC16\20180612-22163.b\06128039.D

Injection Date: 12-Jun-2018 19:50:57 Instrument ID: CHGC16

Lims ID: MB 180-247238/1-A

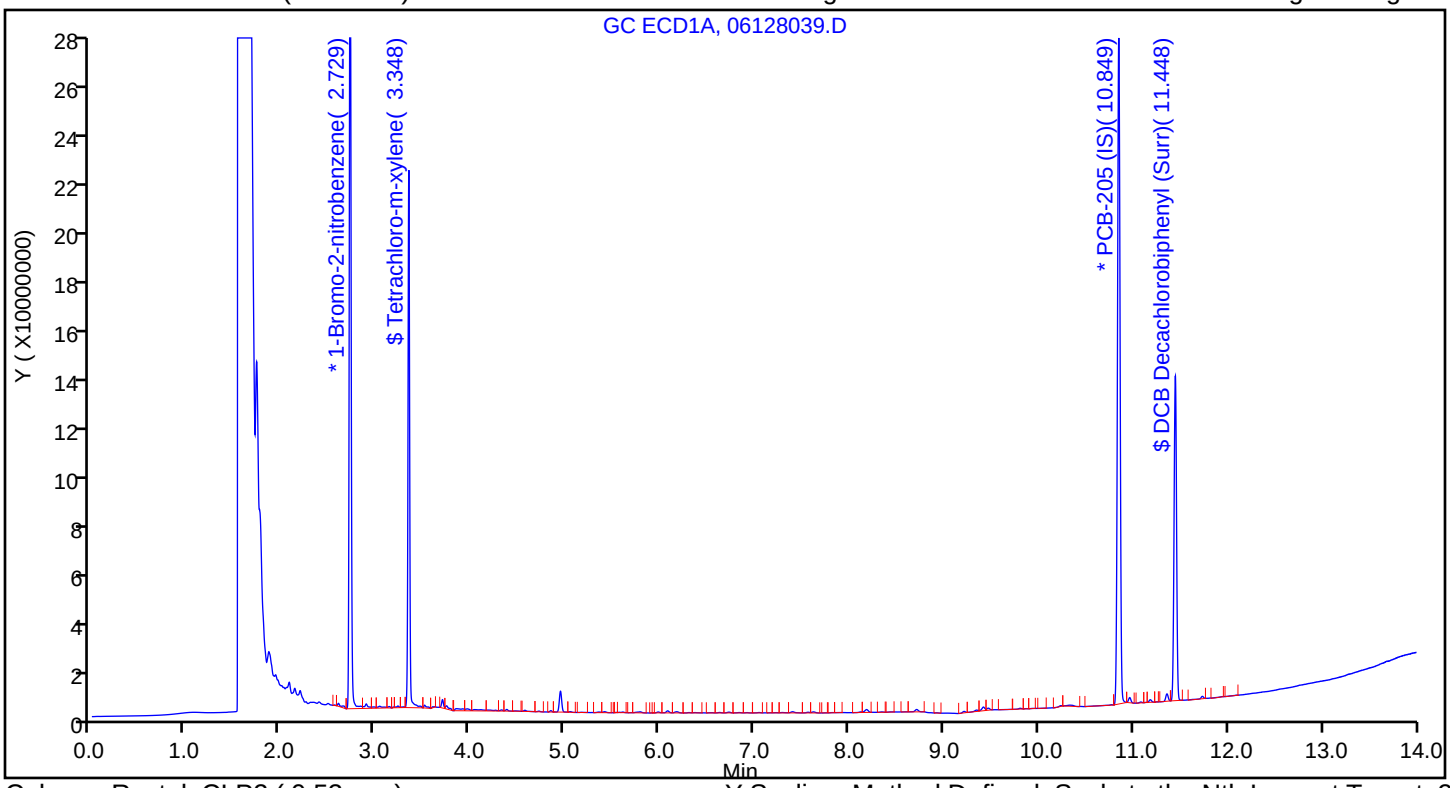
Client ID:

Operator ID: 402331 ALS Bottle#: 35 Worklist Smp#: 35

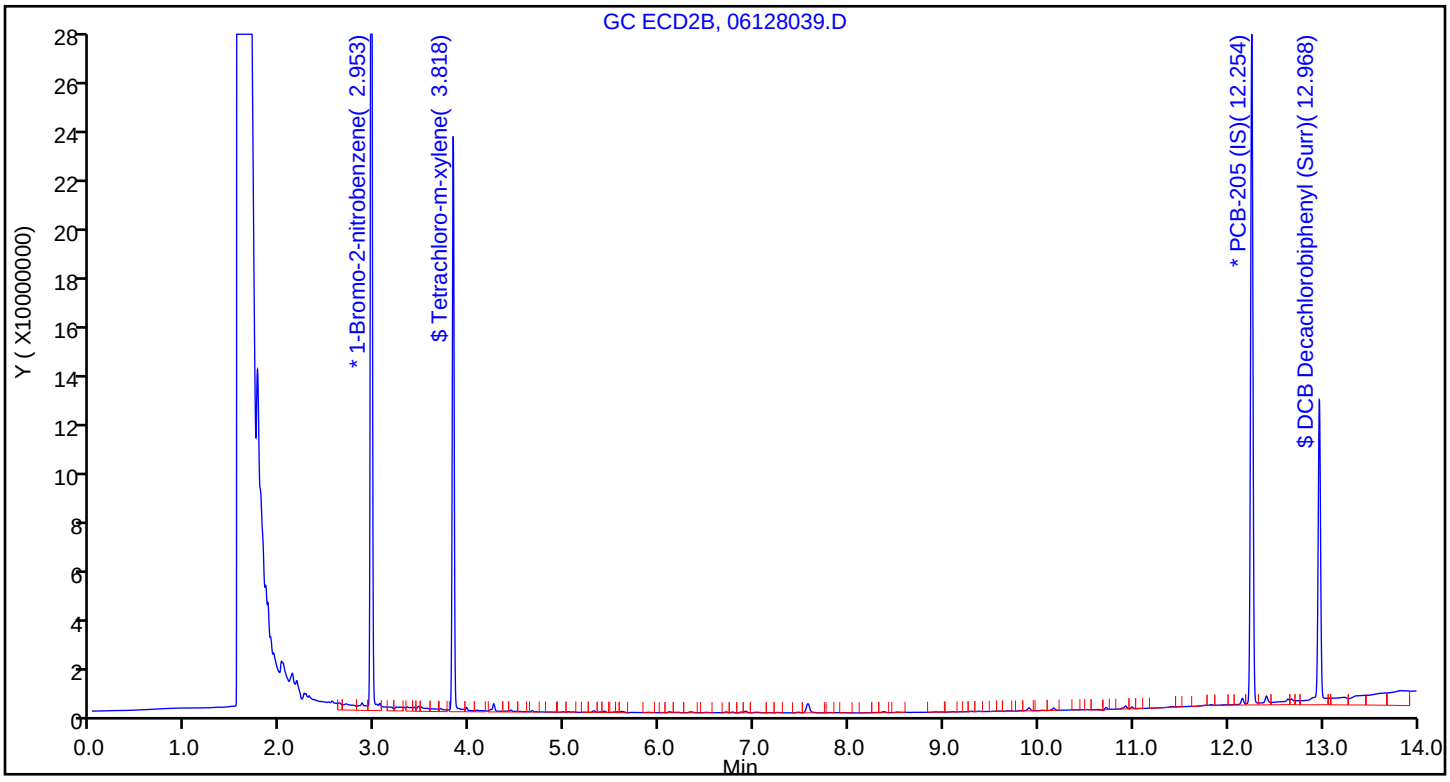
Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: PCB_CHGC16 Limit Group: GCS 8082A ICAL with IS

Column: Restek CLP 1 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Column: Restek CLP2 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



User Disabled Compound Report

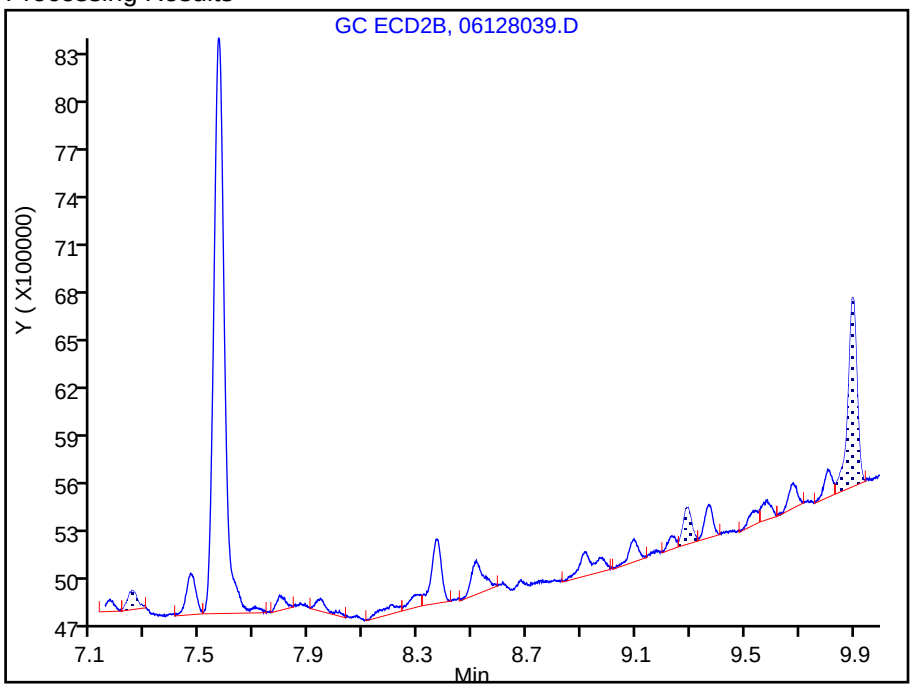
TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC16\20180612-22163.b\06128039.D
Injection Date: 12-Jun-2018 19:50:57 Instrument ID: CHGC16
Lims ID: MB 180-247238/1-A
Client ID:
Operator ID: 402331 ALS Bottle#: 35 Worklist Smp#: 35
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCB_CHGC16 Limit Group: GCS 8082A ICAL with IS

8 PCB-1254, Detector: 2, GC ECD2B

Processing Results

Exp RT	RT	Response	Amount
7.24	7.25	117645	0.001067
8.55			
8.97			
9.29	9.29	224983	0.003251
9.90	9.90	1154266	0.009342
		Average =	0.002821



Reviewer: oravecj, 13-Jun-2018 12:17:16
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

User Disabled Compound Report

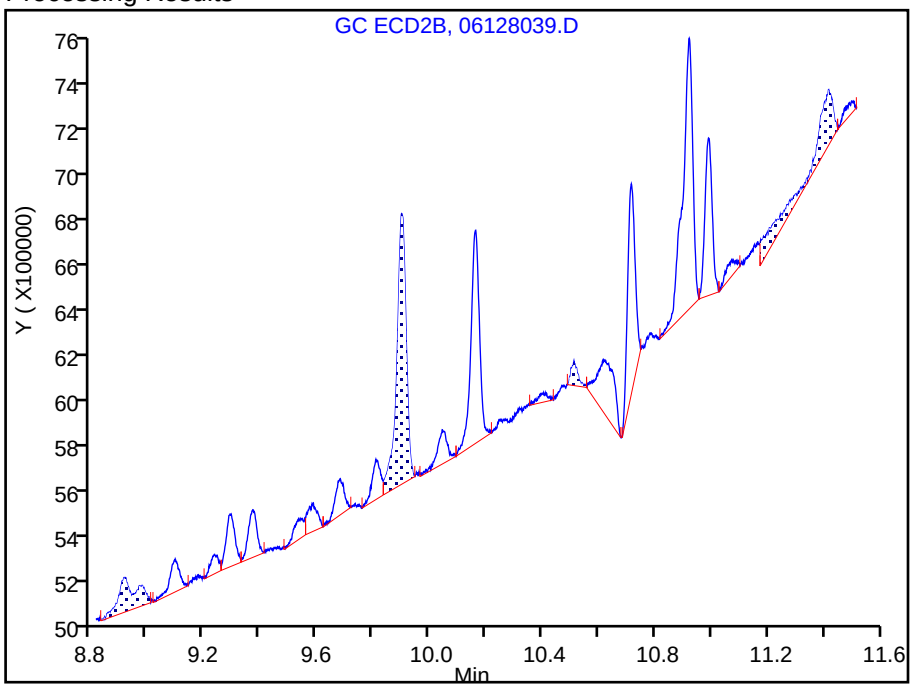
TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC16\20180612-22163.b\06128039.D
Injection Date: 12-Jun-2018 19:50:57 Instrument ID: CHGC16
Lims ID: MB 180-247238/1-A
Client ID:
Operator ID: 402331 ALS Bottle#: 35 Worklist Smp#: 35
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCB_CHGC16 Limit Group: GCS 8082A ICAL with IS

9 PCB-1260, Detector: 2, GC ECD2B

Processing Results

Exp RT	RT	Response	Amount
8.91	8.91	148717	0.001219
9.90	9.90	1154266	0.008588
10.51	10.51	105081	0.000990
10.89			
11.42	11.42	236973	0.001792
		Average =	0.001992



Reviewer: oravecj, 13-Jun-2018 12:17:14
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-78460-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 180-247238/2-A

Matrix: Water | Lab File ID: 06128040.D

Analysis Method: 8082A | Date Collected:

Extraction Method: 3510C | Date Extracted: 06/11/2018 14:00

Sample wt/vol: 1000(mL) | Date Analyzed: 06/12/2018 20:12

Con. Extract Vol.: 1.0(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RTX-CLP1 ID: 0.53(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 247265 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	Arochlor 1016	0.682		0.010	0.0048
11096-82-5	Arochlor 1260	0.658		0.010	0.0039

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl (Surr)	84		46-126
877-09-8	Tetrachloro-m-xylene	70		36-130

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC16\20180612-22163.b\06128040.D
Lims ID: LCS 180-247238/2-A
Client ID:
Sample Type: LCS
Inject. Date: 12-Jun-2018 20:12:41 ALS Bottle#: 36 Worklist Smp#: 36
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0022163-036
Operator ID: 402331 Instrument ID: CHGC16

Method: \\ChromNA\Pittsburgh\ChromData\CHGC16\20180612-22163.b\PCB_CHGC16.m
Limit Group: GCS 8082A ICAL with IS
Last Update: 13-Jun-2018 12:19:16 Calib Date: 23-Mar-2018 13:43:53
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHGC16\20180323-21018.b\03238015.D

Column 1 : Restek CLP 1 (0.53 mm) Det: GC ECD1A
Column 2 : Restek CLP2 (0.53 mm) Det: GC ECD2B
Process Host: XAWRK027

First Level Reviewer: oravecj Date: 13-Jun-2018 12:17:49

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 1-Bromo-2-nitrobenzene							
1	2.730	2.727	0.003	358252412H	0.1000	0.1000	
2	2.953	2.952	0.001	456255687H	0.1000	0.1000	
$ 2 Tetrachloro-m-xylene							
1	3.348	3.344	0.004	247074955H	0.0800	0.0561	
2	3.818	3.816	0.002	253851192H	0.0800	0.0512	
						RPD = 9.07	
6 PCB-1016							
1	3.663	3.660	0.003	46837503H	1.00	0.6666	
1	4.006	4.002	0.004	62160892H	1.00	0.6399	
1	4.667	4.662	0.005	61113289H	1.00	0.6788	
1	5.174	5.169	0.005	50530806H	1.00	0.6909	
1	5.289	5.284	0.005	30597683H	1.00	0.7322	
		Average of Peak Amounts =				0.6817	
2	4.867	4.864	0.003	57746385H	1.00	0.6011	
2	5.213	5.209	0.004	31061329H	1.00	0.6472	
2	5.888	5.885	0.003	39596559H	1.00	0.6143	
2	6.487	6.484	0.003	43672757H	1.00	0.6114	
2	6.704	6.701	0.003	35865652H	1.00	0.6623	
		Average of Peak Amounts =				0.6273	
						RPD = 8.31	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
9 PCB-1260							
1	7.053	7.047	0.006	71878851H	1.00	0.6115	
1	8.121	8.118	0.003	97729986H	1.00	0.6880	
1	8.796	8.793	0.003	60972426H	1.00	0.6333	
1	9.345	9.339	0.006	151062520H	1.00	0.6691	
1	9.807	9.804	0.003	85324477H	1.00	0.6896	
		Average of Peak Amounts =				0.6583	
2	8.914	8.911	0.003	66112577H	1.00	0.5313	
2	9.900	9.897	0.003	83702874H	1.00	0.6108	
2	10.511	10.509	0.002	57557188H	1.00	0.5316	
2	10.890	10.887	0.003	143594582H	1.00	0.5998	
2	11.420	11.418	0.002	78266410H	1.00	0.5804	
		Average of Peak Amounts =				0.5708	
						RPD = 14.24	
* 16 PCB-205 (IS)							
1	10.850	10.849	0.001	267128762H	0.1000	0.1000	
2	12.254	12.255	-0.001	267430546H	0.1000	0.1000	
$ 12 DCB Decachlorobiphenyl (Surr)							
1	11.446	11.442	0.004	149909149H	0.0800	0.0672	
2	12.968	12.967	0.001	132393719H	0.0800	0.0684	
						RPD = 1.80	

Reagents:

PCBINT_00007 Amount Added: 0.01 Units: mL Run Reagent

Report Date: 13-Jun-2018 12:19:47 Chrom Revision: 2.2 11-May-2018 08:54:46

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC16\20180612-22163.b\06128040.D

Injection Date: 12-Jun-2018 20:12:41 Instrument ID: CHGC16

Lims ID: LCS 180-247238/2-A

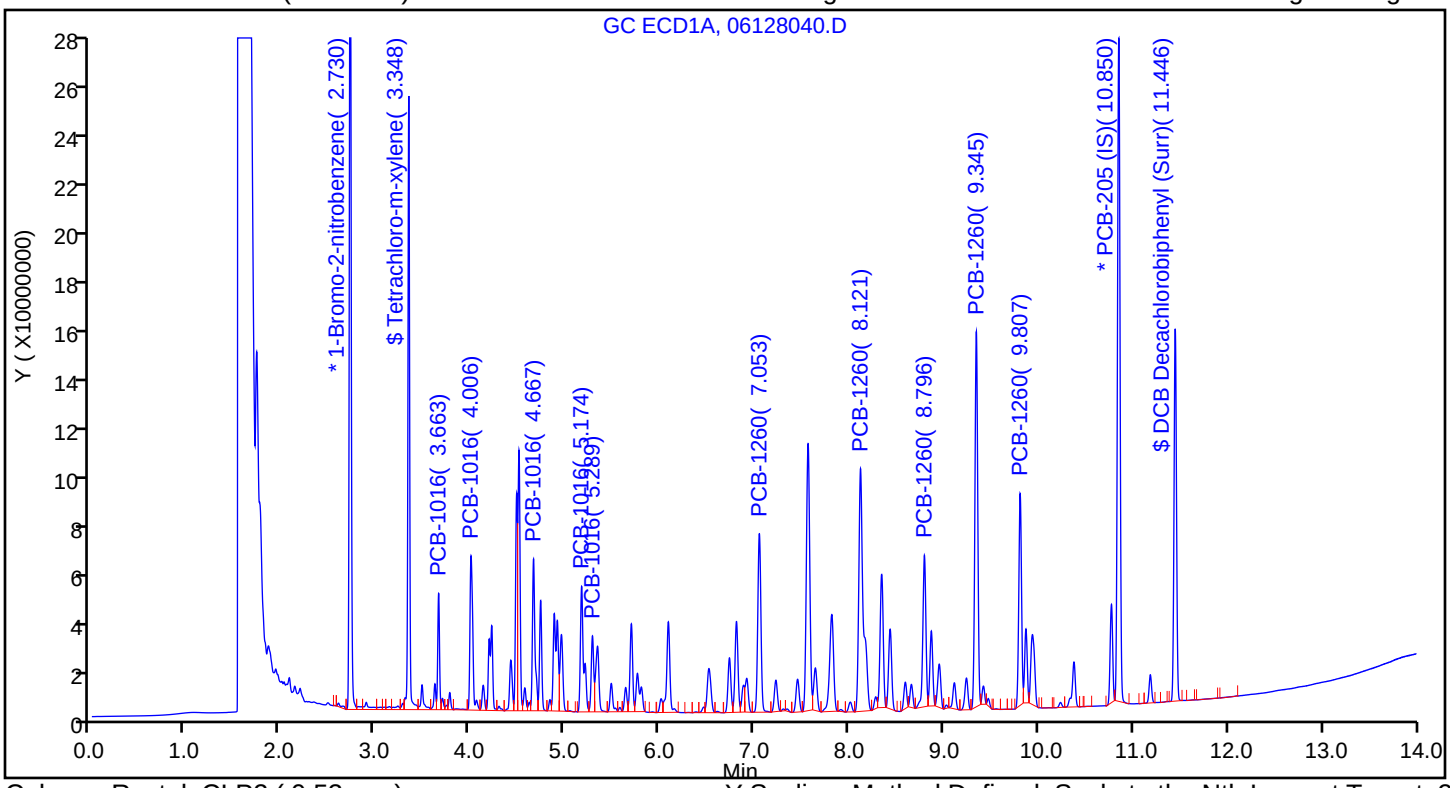
Client ID:

Operator ID: 402331 ALS Bottle#: 36 Worklist Smp#: 36

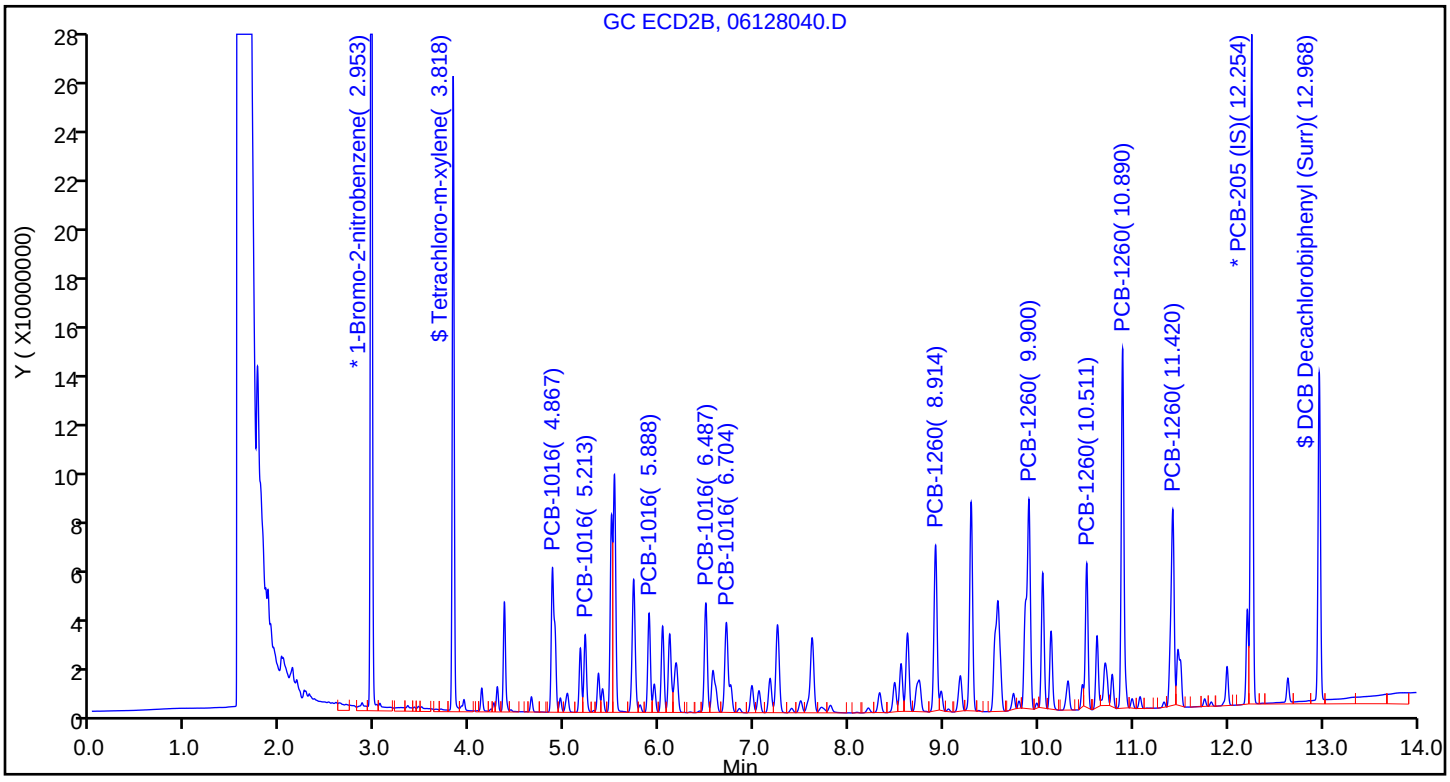
Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: PCB_CHGC16 Limit Group: GCS 8082A ICAL with IS

Column: Restek CLP 1 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Column: Restek CLP2 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh Job No.: 180-78460-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 180-247238/2-A

Matrix: Water Lab File ID: 06128040.D

Analysis Method: 8082A Date Collected:

Extraction Method: 3510C Date Extracted: 06/11/2018 14:00

Sample wt/vol: 1000(mL) Date Analyzed: 06/12/2018 20:12

Con. Extract Vol.: 1.0(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: RTX-CLP2 ID: 0.53(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 247265 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl (Surr)	85		46-126
877-09-8	Tetrachloro-m-xylene	64		36-130

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC16\20180612-22163.b\06128040.D
Lims ID: LCS 180-247238/2-A
Client ID:
Sample Type: LCS
Inject. Date: 12-Jun-2018 20:12:41 ALS Bottle#: 36 Worklist Smp#: 36
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0022163-036
Operator ID: 402331 Instrument ID: CHGC16

Method: \\ChromNA\Pittsburgh\ChromData\CHGC16\20180612-22163.b\PCB_CHGC16.m
Limit Group: GCS 8082A ICAL with IS
Last Update: 13-Jun-2018 12:19:16 Calib Date: 23-Mar-2018 13:43:53
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHGC16\20180323-21018.b\03238015.D

Column 1 : Restek CLP 1 (0.53 mm) Det: GC ECD1A
Column 2 : Restek CLP2 (0.53 mm) Det: GC ECD2B
Process Host: XAWRK027

First Level Reviewer: oravecj Date: 13-Jun-2018 12:17:49

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 1-Bromo-2-nitrobenzene							
1	2.730	2.727	0.003	358252412H	0.1000	0.1000	
2	2.953	2.952	0.001	456255687H	0.1000	0.1000	
$ 2 Tetrachloro-m-xylene							
1	3.348	3.344	0.004	247074955H	0.0800	0.0561	
2	3.818	3.816	0.002	253851192H	0.0800	0.0512	
						RPD = 9.07	
6 PCB-1016							
1	3.663	3.660	0.003	46837503H	1.00	0.6666	
1	4.006	4.002	0.004	62160892H	1.00	0.6399	
1	4.667	4.662	0.005	61113289H	1.00	0.6788	
1	5.174	5.169	0.005	50530806H	1.00	0.6909	
1	5.289	5.284	0.005	30597683H	1.00	0.7322	
		Average of Peak Amounts =				0.6817	
2	4.867	4.864	0.003	57746385H	1.00	0.6011	
2	5.213	5.209	0.004	31061329H	1.00	0.6472	
2	5.888	5.885	0.003	39596559H	1.00	0.6143	
2	6.487	6.484	0.003	43672757H	1.00	0.6114	
2	6.704	6.701	0.003	35865652H	1.00	0.6623	
		Average of Peak Amounts =				0.6273	
						RPD = 8.31	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
9 PCB-1260							
1	7.053	7.047	0.006	71878851H	1.00	0.6115	
1	8.121	8.118	0.003	97729986H	1.00	0.6880	
1	8.796	8.793	0.003	60972426H	1.00	0.6333	
1	9.345	9.339	0.006	151062520H	1.00	0.6691	
1	9.807	9.804	0.003	85324477H	1.00	0.6896	
		Average of Peak Amounts =				0.6583	
2	8.914	8.911	0.003	66112577H	1.00	0.5313	
2	9.900	9.897	0.003	83702874H	1.00	0.6108	
2	10.511	10.509	0.002	57557188H	1.00	0.5316	
2	10.890	10.887	0.003	143594582H	1.00	0.5998	
2	11.420	11.418	0.002	78266410H	1.00	0.5804	
		Average of Peak Amounts =				0.5708	
						RPD = 14.24	
* 16 PCB-205 (IS)							
1	10.850	10.849	0.001	267128762H	0.1000	0.1000	
2	12.254	12.255	-0.001	267430546H	0.1000	0.1000	
$ 12 DCB Decachlorobiphenyl (Surr)							
1	11.446	11.442	0.004	149909149H	0.0800	0.0672	
2	12.968	12.967	0.001	132393719H	0.0800	0.0684	
						RPD = 1.80	

Reagents:

PCBINT_00007 Amount Added: 0.01 Units: mL Run Reagent

Report Date: 13-Jun-2018 12:19:48 Chrom Revision: 2.2 11-May-2018 08:54:46

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC16\20180612-22163.b\06128040.D

Injection Date: 12-Jun-2018 20:12:41 Instrument ID: CHGC16

Lims ID: LCS 180-247238/2-A

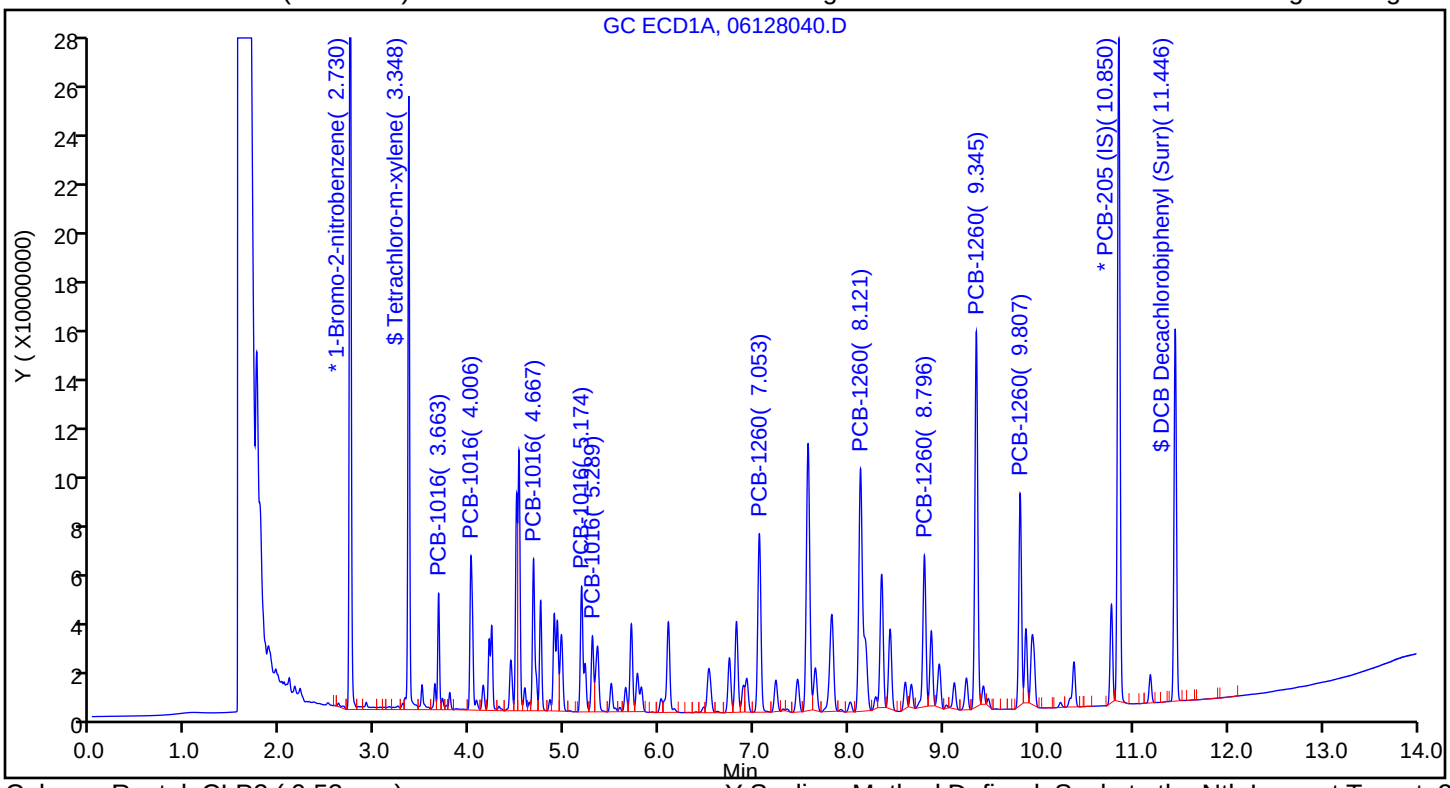
Client ID:

Operator ID: 402331 ALS Bottle#: 36 Worklist Smp#: 36

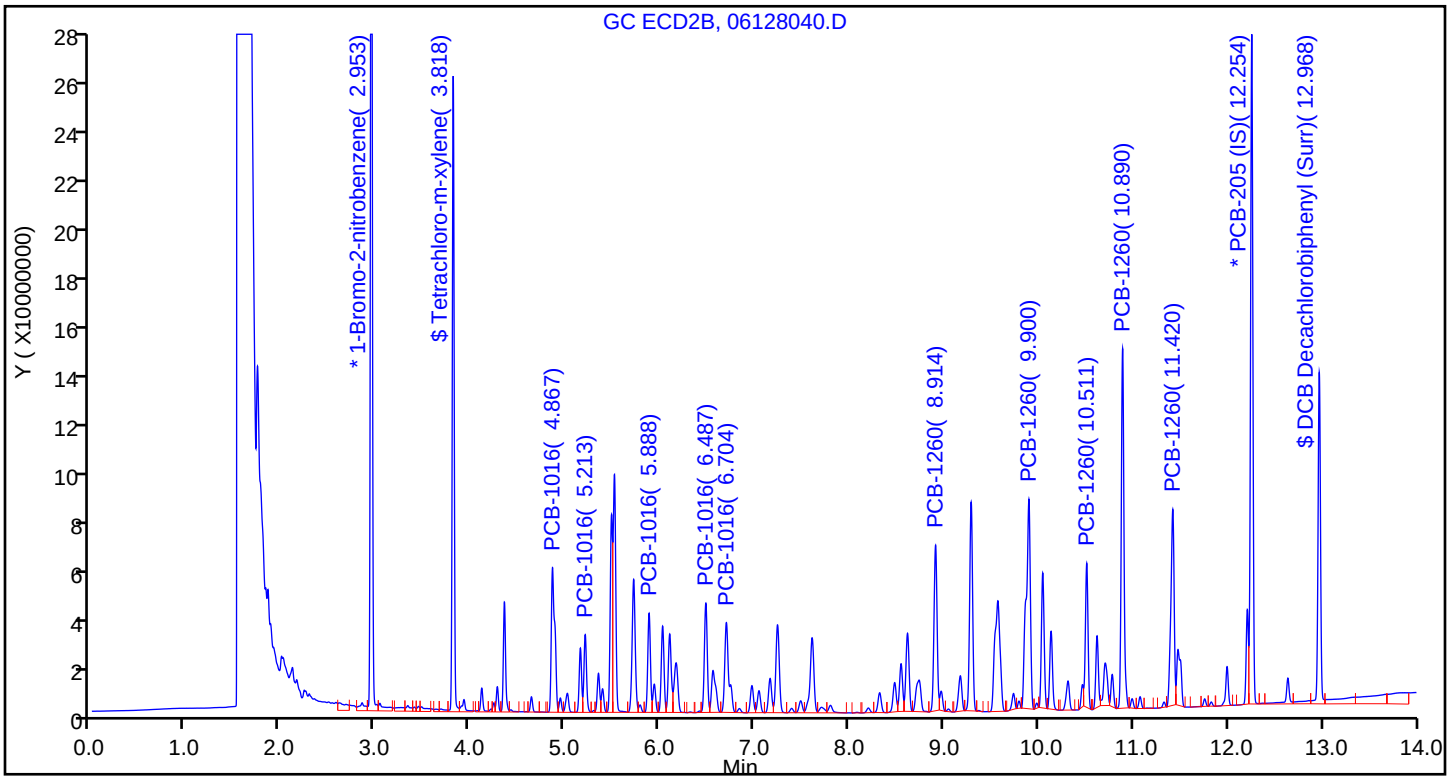
Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: PCB_CHGC16 Limit Group: GCS 8082A ICAL with IS

Column: Restek CLP 1 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Column: Restek CLP2 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-78460-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCSD 180-247238/3-A

Matrix: Water | Lab File ID: 06128041.D

Analysis Method: 8082A | Date Collected:

Extraction Method: 3510C | Date Extracted: 06/11/2018 14:00

Sample wt/vol: 1000(mL) | Date Analyzed: 06/12/2018 20:33

Con. Extract Vol.: 1.0(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RTX-CLP1 ID: 0.53(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 247265 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	Arochlor 1016	0.618		0.010	0.0048
11096-82-5	Arochlor 1260	0.596		0.010	0.0039

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl (Surr)	77		46-126
877-09-8	Tetrachloro-m-xylene	60		36-130

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC16\20180612-22163.b\06128041.D
Lims ID: LCSD 180-247238/3-A
Client ID:
Sample Type: LCSD
Inject. Date: 12-Jun-2018 20:33:30 ALS Bottle#: 37 Worklist Smp#: 37
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0022163-037
Operator ID: 402331 Instrument ID: CHGC16

Method: \\ChromNA\Pittsburgh\ChromData\CHGC16\20180612-22163.b\PCB_CHGC16.m
Limit Group: GCS 8082A ICAL with IS
Last Update: 13-Jun-2018 12:19:16 Calib Date: 23-Mar-2018 13:43:53
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHGC16\20180323-21018.b\03238015.D

Column 1 : Restek CLP 1 (0.53 mm) Det: GC ECD1A
Column 2 : Restek CLP2 (0.53 mm) Det: GC ECD2B
Process Host: XAWRK027

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 1-Bromo-2-nitrobenzene							
1	2.730	2.727	0.002	366766781H	0.1000	0.1000	
2	2.954	2.952	0.002	476213318H	0.1000	0.1000	
$ 2 Tetrachloro-m-xylene							
1	3.348	3.344	0.004	217605665H	0.0800	0.0483	
2	3.819	3.816	0.003	225508560H	0.0800	0.0436	
						RPD = 10.14	
6 PCB-1016							
1	3.663	3.660	0.003	43671643H	1.00	0.6071	
1	4.005	4.002	0.003	55778667H	1.00	0.5608	
1	4.665	4.662	0.003	56707862H	1.00	0.6152	
1	5.173	5.169	0.004	47456252H	1.00	0.6338	
1	5.288	5.284	0.004	28907206H	1.00	0.6750	
		Average of Peak Amounts =				0.6184	
2	4.867	4.864	0.003	54447138H	1.00	0.5430	
2	5.212	5.209	0.003	29281365H	1.00	0.5839	
2	5.887	5.885	0.002	36997211H	1.00	0.5499	
2	6.486	6.484	0.002	40744408H	1.00	0.5465	
2	6.704	6.701	0.003	34309486H	1.00	0.6064	
		Average of Peak Amounts =				0.5659	
						RPD = 8.86	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
9 PCB-1260							
1	7.050	7.047	0.003	68868368H	1.00	0.5634	
1	8.120	8.118	0.002	91786728H	1.00	0.6214	
1	8.795	8.793	0.002	56295582H	1.00	0.5623	
1	9.344	9.339	0.005	141966841H	1.00	0.6047	
1	9.807	9.804	0.003	81050998H	1.00	0.6300	
		Average of Peak Amounts =				0.5964	
2	8.914	8.911	0.003	64293098H	1.00	0.4982	
2	9.899	9.897	0.002	79787193H	1.00	0.5614	
2	10.510	10.509	0.001	57448664H	1.00	0.5117	
2	10.889	10.887	0.002	139306929H	1.00	0.5612	
2	11.420	11.418	0.002	77446436H	1.00	0.5538	
		Average of Peak Amounts =				0.5373	
						RPD = 10.43	
* 16 PCB-205 (IS)							
1	10.849	10.849	0.000	277770131H	0.1000	0.1000	
2	12.253	12.255	-0.002	277335671H	0.1000	0.1000	
$ 12 DCB Decachlorobiphenyl (Surr)							
1	11.446	11.442	0.004	143727844H	0.0800	0.0619	
2	12.967	12.967	0.000	129451616H	0.0800	0.0644	
						RPD = 3.93	

Reagents:

PCBINT_00007 Amount Added: 0.01 Units: mL Run Reagent

Report Date: 13-Jun-2018 12:19:44 Chrom Revision: 2.2 11-May-2018 08:54:46

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC16\20180612-22163.b\06128041.D

Injection Date: 12-Jun-2018 20:33:30 Instrument ID: CHGC16

Lims ID: LCSD 180-247238/3-A

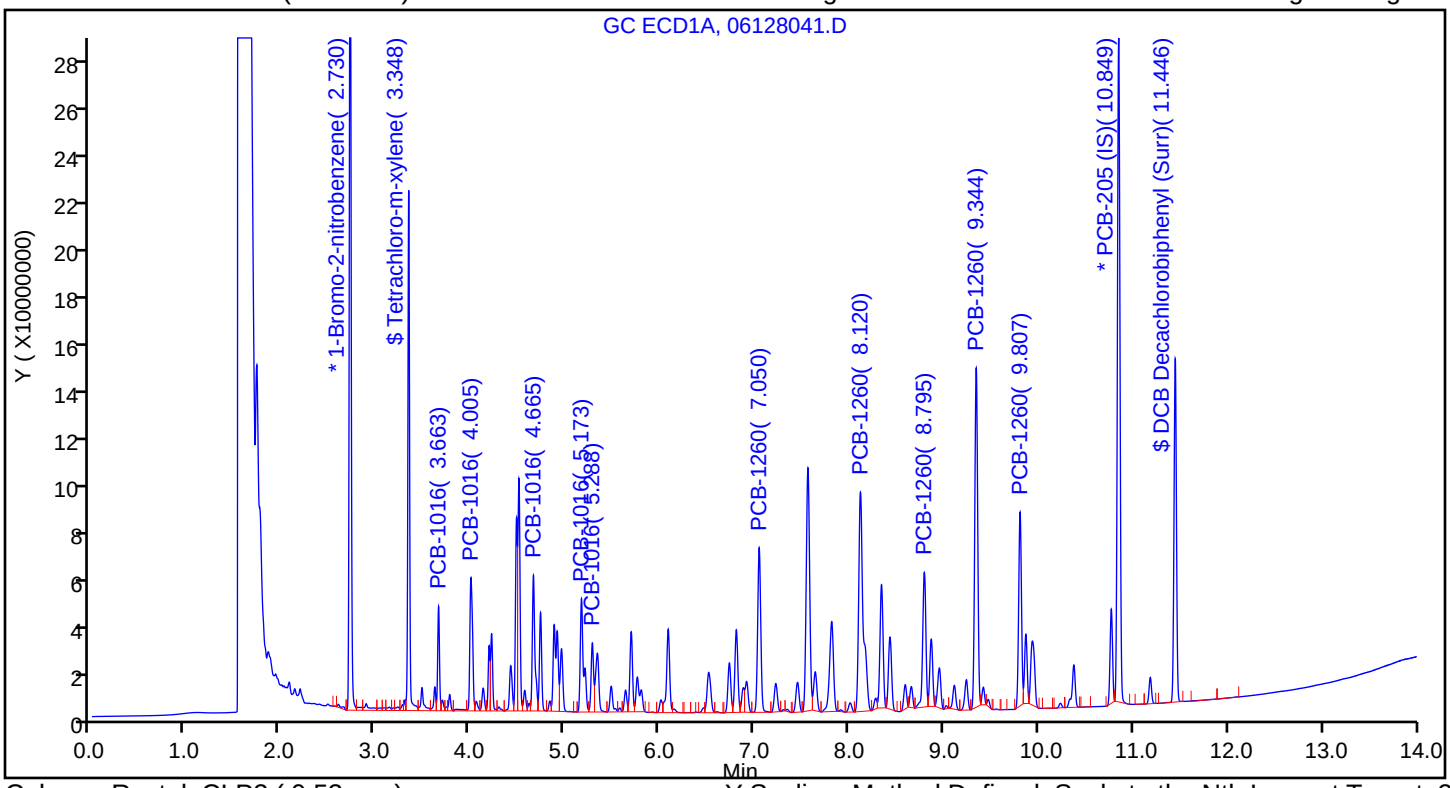
Client ID:

Operator ID: 402331 ALS Bottle#: 37 Worklist Smp#: 37

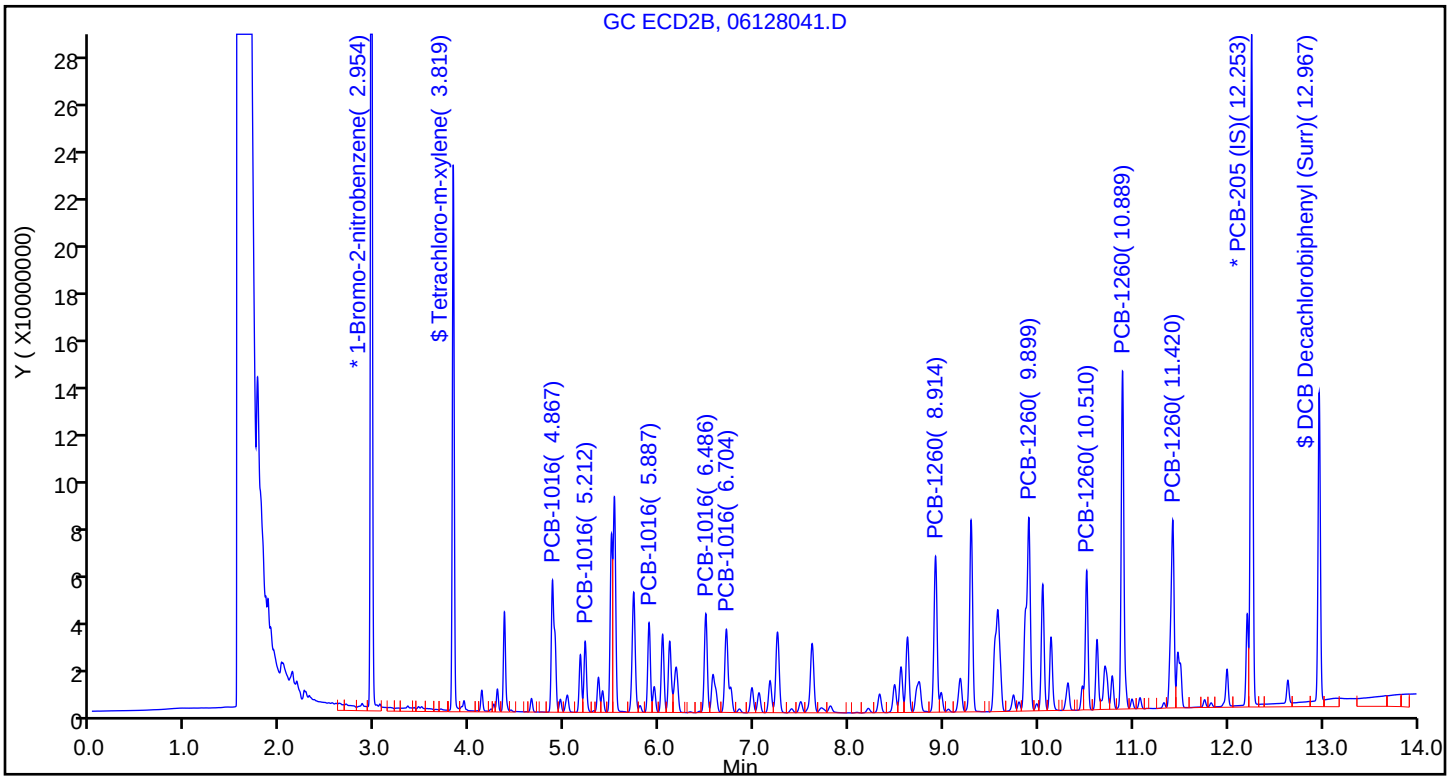
Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: PCB_CHGC16 Limit Group: GCS 8082A ICAL with IS

Column: Restek CLP 1 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Column: Restek CLP2 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh Job No.: 180-78460-1

SDG No.:

Client Sample ID: Lab Sample ID: LCSD 180-247238/3-A

Matrix: Water Lab File ID: 06128041.D

Analysis Method: 8082A Date Collected:

Extraction Method: 3510C Date Extracted: 06/11/2018 14:00

Sample wt/vol: 1000(mL) Date Analyzed: 06/12/2018 20:33

Con. Extract Vol.: 1.0(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: RTX-CLP2 ID: 0.53(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 247265 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl (Surr)	81		46-126
877-09-8	Tetrachloro-m-xylene	54		36-130

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC16\20180612-22163.b\06128041.D
Lims ID: LCSD 180-247238/3-A
Client ID:
Sample Type: LCSD
Inject. Date: 12-Jun-2018 20:33:30 ALS Bottle#: 37 Worklist Smp#: 37
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0022163-037
Operator ID: 402331 Instrument ID: CHGC16

Method: \\ChromNA\Pittsburgh\ChromData\CHGC16\20180612-22163.b\PCB_CHGC16.m
Limit Group: GCS 8082A ICAL with IS
Last Update: 13-Jun-2018 12:19:16 Calib Date: 23-Mar-2018 13:43:53
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHGC16\20180323-21018.b\03238015.D

Column 1 : Restek CLP 1 (0.53 mm) Det: GC ECD1A
Column 2 : Restek CLP2 (0.53 mm) Det: GC ECD2B
Process Host: XAWRK027

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 1-Bromo-2-nitrobenzene							
1	2.730	2.727	0.002	366766781H	0.1000	0.1000	
2	2.954	2.952	0.002	476213318H	0.1000	0.1000	
$ 2 Tetrachloro-m-xylene							
1	3.348	3.344	0.004	217605665H	0.0800	0.0483	
2	3.819	3.816	0.003	225508560H	0.0800	0.0436	
						RPD = 10.14	
6 PCB-1016							
1	3.663	3.660	0.003	43671643H	1.00	0.6071	
1	4.005	4.002	0.003	55778667H	1.00	0.5608	
1	4.665	4.662	0.003	56707862H	1.00	0.6152	
1	5.173	5.169	0.004	47456252H	1.00	0.6338	
1	5.288	5.284	0.004	28907206H	1.00	0.6750	
		Average of Peak Amounts =				0.6184	
2	4.867	4.864	0.003	54447138H	1.00	0.5430	
2	5.212	5.209	0.003	29281365H	1.00	0.5839	
2	5.887	5.885	0.002	36997211H	1.00	0.5499	
2	6.486	6.484	0.002	40744408H	1.00	0.5465	
2	6.704	6.701	0.003	34309486H	1.00	0.6064	
		Average of Peak Amounts =				0.5659	
						RPD = 8.86	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
9 PCB-1260							
1	7.050	7.047	0.003	68868368H	1.00	0.5634	
1	8.120	8.118	0.002	91786728H	1.00	0.6214	
1	8.795	8.793	0.002	56295582H	1.00	0.5623	
1	9.344	9.339	0.005	141966841H	1.00	0.6047	
1	9.807	9.804	0.003	81050998H	1.00	0.6300	
		Average of Peak Amounts =				0.5964	
2	8.914	8.911	0.003	64293098H	1.00	0.4982	
2	9.899	9.897	0.002	79787193H	1.00	0.5614	
2	10.510	10.509	0.001	57448664H	1.00	0.5117	
2	10.889	10.887	0.002	139306929H	1.00	0.5612	
2	11.420	11.418	0.002	77446436H	1.00	0.5538	
		Average of Peak Amounts =				0.5373	
						RPD = 10.43	
* 16 PCB-205 (IS)							
1	10.849	10.849	0.000	277770131H	0.1000	0.1000	
2	12.253	12.255	-0.002	277335671H	0.1000	0.1000	
$ 12 DCB Decachlorobiphenyl (Surr)							
1	11.446	11.442	0.004	143727844H	0.0800	0.0619	
2	12.967	12.967	0.000	129451616H	0.0800	0.0644	
						RPD = 3.93	

Reagents:

PCBINT_00007 Amount Added: 0.01 Units: mL Run Reagent

Report Date: 13-Jun-2018 12:19:45 Chrom Revision: 2.2 11-May-2018 08:54:46

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC16\20180612-22163.b\06128041.D

Injection Date: 12-Jun-2018 20:33:30 Instrument ID: CHGC16

Lims ID: LCSD 180-247238/3-A

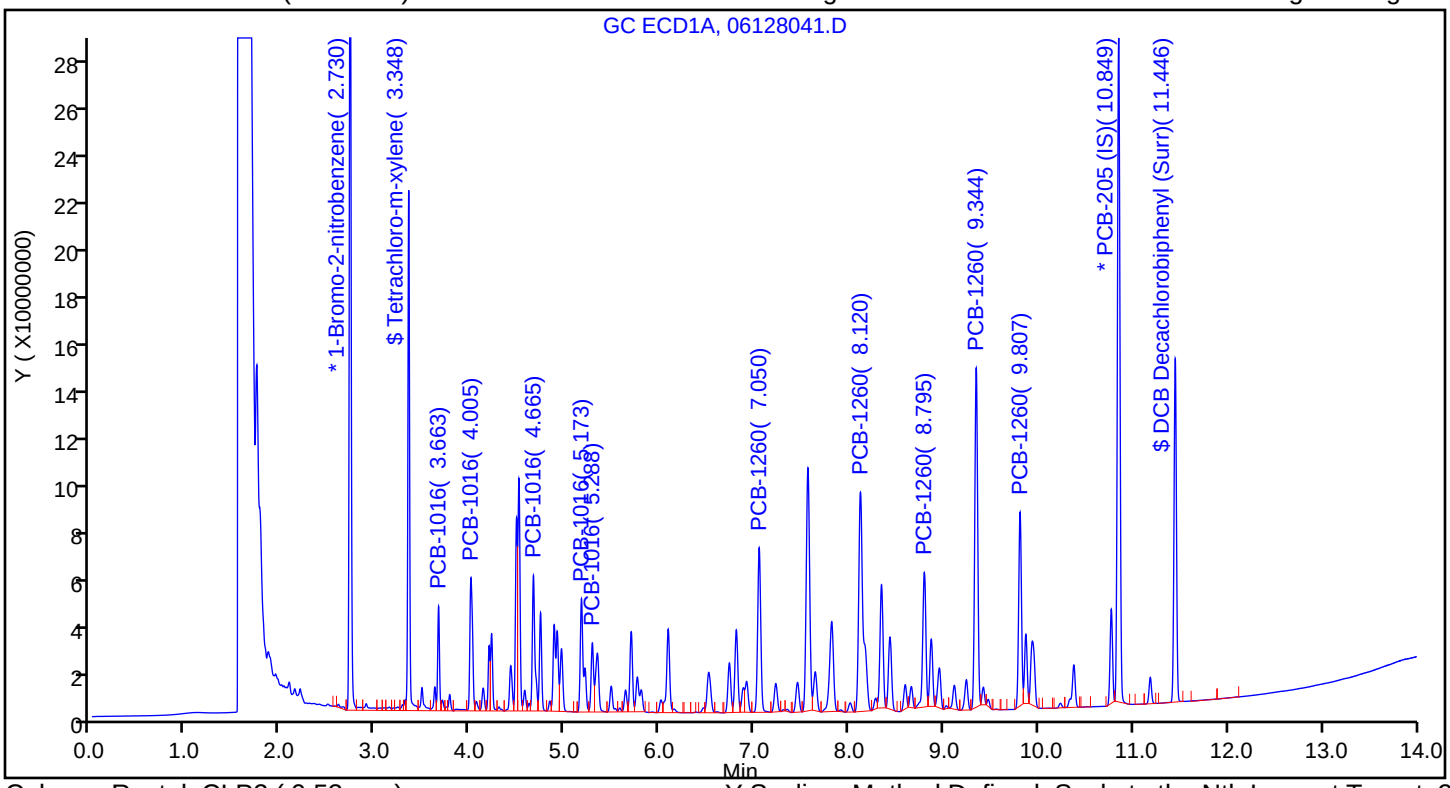
Client ID:

Operator ID: 402331 ALS Bottle#: 37 Worklist Smp#: 37

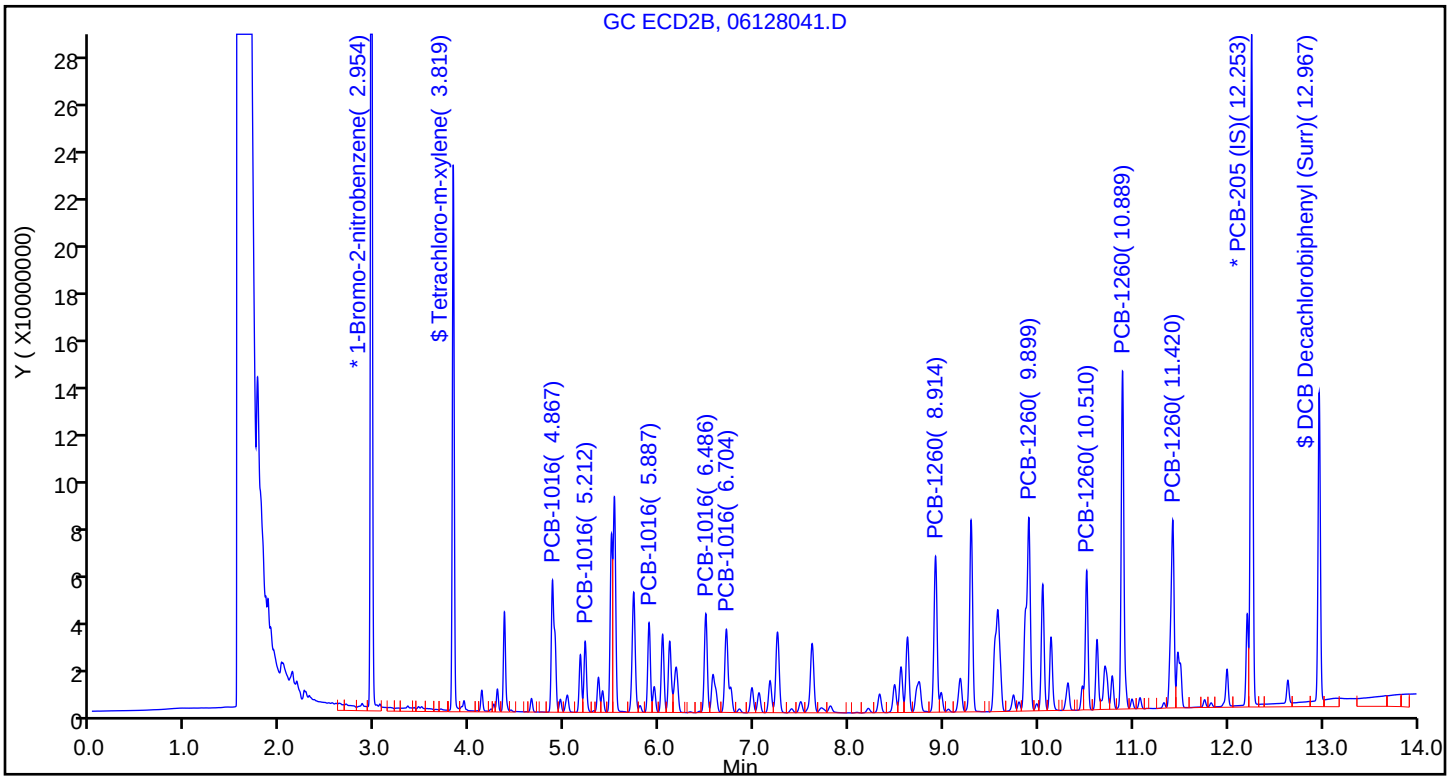
Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: PCB_CHGC16 Limit Group: GCS 8082A ICAL with IS

Column: Restek CLP 1 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Column: Restek CLP2 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



PCBS ANALYSIS RUN LOG

Lab Name: TestAmerica Pittsburgh Job No.: 180-78460-1

SDG No.:

Instrument ID: CHGC16 Start Date: 03/23/2018 10:18

Analysis Batch Number: 240288 End Date: 03/23/2018 16:30

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
IC 180-240288/1		03/23/2018 10:18	1	03238005.D	RTX-CLP1 0.53(mm)
IC 180-240288/1		03/23/2018 10:18	1	03238005.D	RTX-CLP2 0.53(mm)
IC 180-240288/2		03/23/2018 10:39	1	03238006.D	RTX-CLP1 0.53(mm)
IC 180-240288/2		03/23/2018 10:39	1	03238006.D	RTX-CLP2 0.53(mm)
IC 180-240288/3		03/23/2018 10:59	1	03238007.D	RTX-CLP1 0.53(mm)
IC 180-240288/3		03/23/2018 10:59	1	03238007.D	RTX-CLP2 0.53(mm)
IC 180-240288/4		03/23/2018 11:17	1	03238008.D	RTX-CLP1 0.53(mm)
IC 180-240288/4		03/23/2018 11:17	1	03238008.D	RTX-CLP2 0.53(mm)
IC 180-240288/5		03/23/2018 11:38	1	03238009.D	RTX-CLP1 0.53(mm)
IC 180-240288/5		03/23/2018 11:38	1	03238009.D	RTX-CLP2 0.53(mm)
IC 180-240288/6		03/23/2018 11:59	1	03238010.D	RTX-CLP1 0.53(mm)
IC 180-240288/6		03/23/2018 11:59	1	03238010.D	RTX-CLP2 0.53(mm)
IC 180-240288/7		03/23/2018 12:20	1	03238011.D	RTX-CLP1 0.53(mm)
IC 180-240288/7		03/23/2018 12:20	1	03238011.D	RTX-CLP2 0.53(mm)
ICIS 180-240288/8		03/23/2018 12:41	1	03238012.D	RTX-CLP1 0.53(mm)
ICIS 180-240288/8		03/23/2018 12:41	1	03238012.D	RTX-CLP2 0.53(mm)
IC 180-240288/9		03/23/2018 13:02	1	03238013.D	RTX-CLP1 0.53(mm)
IC 180-240288/9		03/23/2018 13:02	1	03238013.D	RTX-CLP2 0.53(mm)
IC 180-240288/10		03/23/2018 13:23	1	03238014.D	RTX-CLP1 0.53(mm)
IC 180-240288/10		03/23/2018 13:23	1	03238014.D	RTX-CLP2 0.53(mm)
IC 180-240288/11		03/23/2018 13:43	1	03238015.D	RTX-CLP1 0.53(mm)
IC 180-240288/11		03/23/2018 13:43	1	03238015.D	RTX-CLP2 0.53(mm)
ICV 180-240288/12		03/23/2018 14:04	1		RTX-CLP1 0.53(mm)
ICV 180-240288/12		03/23/2018 14:04	1		RTX-CLP2 0.53(mm)
ICV 180-240288/13		03/23/2018 14:25	1		RTX-CLP1 0.53(mm)
ICV 180-240288/13		03/23/2018 14:25	1		RTX-CLP2 0.53(mm)
ICV 180-240288/14		03/23/2018 14:46	1		RTX-CLP1 0.53(mm)
ICV 180-240288/14		03/23/2018 14:46	1		RTX-CLP2 0.53(mm)
ICV 180-240288/15		03/23/2018 15:07	1		RTX-CLP1 0.53(mm)
ICV 180-240288/15		03/23/2018 15:07	1		RTX-CLP2 0.53(mm)
ICV 180-240288/16		03/23/2018 15:28	1		RTX-CLP1 0.53(mm)
ICV 180-240288/16		03/23/2018 15:28	1		RTX-CLP2 0.53(mm)
ZZZZZ		03/23/2018 15:48	1		RTX-CLP1 0.53(mm)
ZZZZZ		03/23/2018 15:48	1		RTX-CLP2 0.53(mm)
ZZZZZ		03/23/2018 16:09	1		RTX-CLP1 0.53(mm)
ZZZZZ		03/23/2018 16:09	1		RTX-CLP2 0.53(mm)
ZZZZZ		03/23/2018 16:30	1		RTX-CLP1 0.53(mm)
ZZZZZ		03/23/2018 16:30	1		RTX-CLP2 0.53(mm)

PCBS ANALYSIS RUN LOG

Lab Name: TestAmerica Pittsburgh Job No.: 180-78460-1

SDG No.:

Instrument ID: CHGC16 Start Date: 06/12/2018 07:51

Analysis Batch Number: 247265 End Date: 06/12/2018 20:54

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 180-247265/1		06/12/2018 07:51	1		RTX-CLP1 0.53(mm)
CCV 180-247265/1		06/12/2018 07:51	1		RTX-CLP2 0.53(mm)
RTC 180-247265/2		06/12/2018 08:12	1		RTX-CLP1 0.53(mm)
RTC 180-247265/2		06/12/2018 08:12	1		RTX-CLP2 0.53(mm)
RTC 180-247265/3		06/12/2018 08:34	1	06128007.D	RTX-CLP1 0.53(mm)
RTC 180-247265/3		06/12/2018 08:34	1	06128007.D	RTX-CLP2 0.53(mm)
CCV 180-247265/4		06/12/2018 08:55	1	06128008.D	RTX-CLP1 0.53(mm)
CCV 180-247265/4		06/12/2018 08:55	1	06128008.D	RTX-CLP2 0.53(mm)
CCVIS 180-247265/5		06/12/2018 09:15	1		RTX-CLP1 0.53(mm)
CCVIS 180-247265/5		06/12/2018 09:15	1		RTX-CLP2 0.53(mm)
ZZZZZ		06/12/2018 09:36	1		RTX-CLP1 0.53(mm)
ZZZZZ		06/12/2018 09:36	1		RTX-CLP2 0.53(mm)
ZZZZZ		06/12/2018 09:57	100		RTX-CLP1 0.53(mm)
ZZZZZ		06/12/2018 09:57	100		RTX-CLP2 0.53(mm)
ZZZZZ		06/12/2018 10:18	100		RTX-CLP1 0.53(mm)
ZZZZZ		06/12/2018 10:18	100		RTX-CLP2 0.53(mm)
ZZZZZ		06/12/2018 10:40	500		RTX-CLP1 0.53(mm)
ZZZZZ		06/12/2018 10:40	500		RTX-CLP2 0.53(mm)
ZZZZZ		06/12/2018 11:01	1		RTX-CLP1 0.53(mm)
ZZZZZ		06/12/2018 11:01	1		RTX-CLP2 0.53(mm)
ZZZZZ		06/12/2018 11:22	1		RTX-CLP1 0.53(mm)
ZZZZZ		06/12/2018 11:22	1		RTX-CLP2 0.53(mm)
ZZZZZ		06/12/2018 11:43	1		RTX-CLP1 0.53(mm)
ZZZZZ		06/12/2018 11:43	1		RTX-CLP2 0.53(mm)
ZZZZZ		06/12/2018 12:04	1		RTX-CLP1 0.53(mm)
ZZZZZ		06/12/2018 12:04	1		RTX-CLP2 0.53(mm)
ZZZZZ		06/12/2018 12:25	1		RTX-CLP1 0.53(mm)
ZZZZZ		06/12/2018 12:25	1		RTX-CLP2 0.53(mm)
ZZZZZ		06/12/2018 12:46	100		RTX-CLP1 0.53(mm)
ZZZZZ		06/12/2018 12:46	100		RTX-CLP2 0.53(mm)
ZZZZZ		06/12/2018 13:08	100		RTX-CLP1 0.53(mm)
ZZZZZ		06/12/2018 13:08	100		RTX-CLP2 0.53(mm)
ZZZZZ		06/12/2018 13:29	100		RTX-CLP1 0.53(mm)
ZZZZZ		06/12/2018 13:29	100		RTX-CLP2 0.53(mm)
ZZZZZ		06/12/2018 13:50	100		RTX-CLP1 0.53(mm)
ZZZZZ		06/12/2018 13:50	100		RTX-CLP2 0.53(mm)
ZZZZZ		06/12/2018 14:11	100		RTX-CLP1 0.53(mm)
ZZZZZ		06/12/2018 14:11	100		RTX-CLP2 0.53(mm)
ZZZZZ		06/12/2018 14:32	1		RTX-CLP1 0.53(mm)
ZZZZZ		06/12/2018 14:32	1		RTX-CLP2 0.53(mm)
ZZZZZ		06/12/2018 14:54	50		RTX-CLP1 0.53(mm)
ZZZZZ		06/12/2018 14:54	50		RTX-CLP2 0.53(mm)
ZZZZZ		06/12/2018 15:16	10		RTX-CLP1 0.53(mm)
ZZZZZ		06/12/2018 15:16	10		RTX-CLP2 0.53(mm)
ZZZZZ		06/12/2018 15:37	10		RTX-CLP1 0.53(mm)

8082A

PCBS ANALYSIS RUN LOG

Lab Name: TestAmerica Pittsburgh Job No.: 180-78460-1

SDG No.:

Instrument ID: CHGC16 Start Date: 06/12/2018 07:51

Analysis Batch Number: 247265 End Date: 06/12/2018 20:54

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		06/12/2018 15:37	10		RTX-CLP2 0.53(mm)
ZZZZZ		06/12/2018 15:57	10		RTX-CLP1 0.53(mm)
ZZZZZ		06/12/2018 15:57	10		RTX-CLP2 0.53(mm)
ZZZZZ		06/12/2018 16:18	1		RTX-CLP1 0.53(mm)
ZZZZZ		06/12/2018 16:18	1		RTX-CLP2 0.53(mm)
CCVIS 180-247265/26		06/12/2018 16:39	1	06128030.D	RTX-CLP1 0.53(mm)
CCVIS 180-247265/26		06/12/2018 16:39	1	06128030.D	RTX-CLP2 0.53(mm)
ZZZZZ		06/12/2018 17:01	1		RTX-CLP1 0.53(mm)
ZZZZZ		06/12/2018 17:01	1		RTX-CLP2 0.53(mm)
ZZZZZ		06/12/2018 17:23	1		RTX-CLP1 0.53(mm)
ZZZZZ		06/12/2018 17:23	1		RTX-CLP2 0.53(mm)
ZZZZZ		06/12/2018 17:44	1		RTX-CLP1 0.53(mm)
ZZZZZ		06/12/2018 17:44	1		RTX-CLP2 0.53(mm)
ZZZZZ		06/12/2018 18:05	1		RTX-CLP1 0.53(mm)
ZZZZZ		06/12/2018 18:05	1		RTX-CLP2 0.53(mm)
ZZZZZ		06/12/2018 18:26	1		RTX-CLP1 0.53(mm)
ZZZZZ		06/12/2018 18:26	1		RTX-CLP2 0.53(mm)
ZZZZZ		06/12/2018 18:47	1		RTX-CLP1 0.53(mm)
ZZZZZ		06/12/2018 18:47	1		RTX-CLP2 0.53(mm)
ZZZZZ		06/12/2018 19:08	1		RTX-CLP1 0.53(mm)
ZZZZZ		06/12/2018 19:08	1		RTX-CLP2 0.53(mm)
ZZZZZ		06/12/2018 19:29	1		RTX-CLP1 0.53(mm)
ZZZZZ		06/12/2018 19:29	1		RTX-CLP2 0.53(mm)
MB 180-247238/1-A		06/12/2018 19:50	1	06128039.D	RTX-CLP1 0.53(mm)
MB 180-247238/1-A		06/12/2018 19:50	1	06128039.D	RTX-CLP2 0.53(mm)
LCS 180-247238/2-A		06/12/2018 20:12	1	06128040.D	RTX-CLP1 0.53(mm)
LCS 180-247238/2-A		06/12/2018 20:12	1	06128040.D	RTX-CLP2 0.53(mm)
LCSD 180-247238/3-A		06/12/2018 20:33	1	06128041.D	RTX-CLP1 0.53(mm)
LCSD 180-247238/3-A		06/12/2018 20:33	1	06128041.D	RTX-CLP2 0.53(mm)
180-78460-1		06/12/2018 20:54	1	06128042.D	RTX-CLP1 0.53(mm)
180-78460-1		06/12/2018 20:54	1	06128042.D	RTX-CLP2 0.53(mm)

PCBS BATCH WORKSHEET

Lab Name: TestAmerica Pittsburgh Job No.: 180-78460-1

SDG No.:

Batch Number: 247238 Batch Start Date: 06/11/18 14:00 Batch Analyst: Trout, Bill

Batch Method: 3510C Batch End Date: 06/12/18 00:00

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	ReceivedpH	GCMATRIXWORKS 00030	op-p/pcb sur 00021	AnalysisComment
MB 180-247238/1		3510C, 8082A		1000 mL	1.0 mL	5 SU		100 uL	
LCS 180-247238/2		3510C, 8082A		1000 mL	1.0 mL	5 SU	25 uL	100 uL	pcb
LCSD 180-247238/3		3510C, 8082A		1000 mL	1.0 mL	5 SU	25 uL	100 uL	pcb
180-78460-A-1	CE-MW-38R2_06041 8	3510C, 8082A	T	920 mL	1.0 mL	7 SU		100 uL	

Batch Notes	
Analyst ID - Concentration	vvp
Concentration 1 Corrected Temperature	65 Degrees C
Concentration 2 Corrected Temperature	21 Degrees C
Equipment ID - Concentration 1	water bath
Equipment ID - Concentration 2	1
Exchange Solvent ID	Hexane 2745552
Analyst ID - Extraction	BT
Filter ID	9792820
Na2SO4 ID	2553602
pH Indicator ID	Ph paper HC740840
Prep Solvent ID	Methylene chloride 2778311
Prep Solvent Volume Used	180 mL
Analyst ID - Spike Analyst	BT
Sufficient Volume for Batch QC	no
Thermometer ID - Concentration 1	water bath
Thermometer ID - Concentration 2	1
Concentration 1 Uncorrected Temperature	65 Degrees C
Concentration 2 Uncorrected Temperature	21 Degrees C

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Shipping and Receiving Documents

777 New Durham Road
Edison, New Jersey 08817
Phone: (732) 549-3900 Fax: (732) 549-3679

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

CHAIN OF CUSTODY / ANALYSIS REQUEST

Name (for report and invoice) Neoma Chefalo / Steve Greps	Samplers Name (Printed) Christopher Rupolo	Site/Project Identification CE Flushing 40-22 College Point Blvd, Queens, NY
Company AKRF, Inc.	P. O. # 30141	State (Location of site): NJ: ☐ NY: ☒ Other:
Address 440 Park Avenue South, 7th Flour	Analysis Turnaround Time: Standard ☒	Regulatory Program: DKQP: ☐
City New York State NY	Rush Charges Authorized For: 2 Week ☐ 1 Week ☐ Other ☐	LAB USE ONLY Project No:
Phone (646)388-9854 Fax		Job No:

ANALYSIS REQUESTED (ENTER "X" BELOW TO INDICATE REQUEST)

Sample Identification	Date	Time	Matrix	No. of Cont.	Total PCBs (8082)	Sample Numbers
CE-MW-38R2_060418	6/4/18	14:51	GW	2	X	

180-78460 Chain of Custody

Preservation Used: 1 = ICE, 2 = HCl, 3 = H_2SO_4, 4 = HNO_3, 5 = NaOH Soil:
6 = Other _____, 7 = Other _____ Water:

Special Instructions Category B Deliverables

Water Metals Filtered (Yes/No)? _____

Relinquished by	Company	Date / Time	Received by	Company
1)	AKRF	10:50 6/5/18	1) Tim Yap	TA EDISON
2) Tim Yap	TA EDISON	6/5/18 1815	2)	TA Edi 6/5/18 1815
3)	TA Edi	6/6/18 1800	3) Julie Watson	TA Pit 6-7-18
4)			4)	915

Laboratory Certifications: New Jersey (12028), New York (11452), Pennsylvania (68-522), Connecticut (PH-0200), Rhode Island (132). TAL - 0016 (0715)

Massachusetts (M-NJ312), North Carolina (No. 578) IR # 11 1.9 °C NO CS

Login Sample Receipt Checklist

Client: AKRF Inc

Job Number: 180-78460-1

Login Number: 78460
List Number: 1
Creator: Watson, Debbie

List Source: TestAmerica Pittsburgh

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

APPENDIX C

CORRESPONDENCE WITH NYSDEC

AKRF, Inc.
Environmental, Planning, and Engineering Consultants
440 Park Avenue South
7th Floor
New York, NY 10016
tel: 212 696-0670
fax: 212 213-3191
www.akrf.com

April 23, 2018

Ms. Ioana Munteanu-Ramnic, P.E.
Project Manager
New York State Department of Environmental Conservation
Division of Environmental Remediation, Region 2 Office
47-40 21st Street
Long Island City, NY 11101-5407

Re: Groundwater Sampling and Monitoring Well Modification Request
Flushing Industrial Park, Parcels 1, 2 and 3
BCP Site Nos. C241051, C241078 and C241079

Dear Ms. Munteanu-Ramnic:

AKRF Engineering, P.C. has been performing post-remedial groundwater sampling at the above referenced Site since 2006: semi-annually through 2012, and, following NYSDEC approval, annually beginning in 2015. Sampling was most recently performed in April 2016, after which construction began for the Parcel 2 elevator building and Parcel 3 esplanade (as well as construction staging on the southwestern portion of the Site). Based upon a March 30, 2018 inspection of the Site, five wells appear to be intact (MW-29R5, 39R, 41R2, 42R, and 43R3) but the remaining 11 have been destroyed (MW-28R5, 30R4, 31R, 32R, 33R2, 34R2, 35R, 36R2, 37R, 38R, and 40R2).

Construction is ongoing, but is anticipated to finish by June 2018. As such, AKRF is requesting NYSDEC approval to delay the scheduled April sampling until construction is completed when new wells can be installed (anticipated between June and August 2018).

Based on email discussions, future sampling will be not be required of wells where PCBs have not been detected at or above the Class GA standard of 0.09 micrograms per liter (µg/l).

Monitoring Well Reinstallation Request

Sampling for total PCBs in groundwater will resume after ground disturbance associated with construction has been completed.

Sampling of the 9 wells (MW-30R4, 33R2, 35R, 36R2, 39R, 40R2, 41R2, 42R, and 43R3) has shown no or at most sporadic detections of PCBs above the Class GA Standard. Specifically, the rationale for discontinuation at each of these monitoring wells is as follows:

- MW-30R4 – only one exceedance (in October 2014) since February 2008;
- MW-33R2 – only one exceedance (in April 2014) since October 2011;
- MW-35R – no exceedances since May 2008;
- MW-36R2 – no PCBs detected since February 2008; and

- MW-39R, 40R2, 41R2, 42R, and 43R3 – no exceedances since August 2008.

Therefore, five of the destroyed wells (30R4, 33R2, 35R, 36R2 and 40R2) would not need to be reinstalled and remaining wells MW-39R, 41R2, 42R, and 43R3 would not be sampled.

As such: MW-28R5, 31R, 32R, 34R2, 37R and 38R would be reinstalled and sampled along with sampling of the existing MW-29R5. As shown in the attached Figure, these seven wells provide adequate coverage across the Site parcels.

Sincerely,
AKRF, Inc.

Stephen Grens
Senior Environmental Scientist

Marcus Simons
Senior Vice President

Enclosures: Figure 3 – PCB concentrations in Groundwater

cc: C.Gioia – Onex
J. Coghlan, M. Chertok – Sive Paget & Riesel
K. Brunner, N. Chefalo – AKRF

M:\AKRF Project Files\30141 - Muss Flushing\OU-2&3&4 Plans-Reports\GW sampling modification\NYSDEC GW Sample Delay Request.doc/

PCB CONCENTRATIONS IN GROUNDWATER

FLUSHING INDUSTRIAL PARK
FLUSHING, NEW YORK

AKRF
Environmental Consultants
440 Park Avenue South, New York, N.Y. 10016

DATE
5.12.2016

SCALE
as shown

PROJECT No.
30141

FIGURE
3

MW-31	Feb-08	May-08	Aug-08	Mar-09	Oct-11	Feb-12	Apr-12	Jul-12	Oct-12	Feb-13	Apr-13	Oct-13	Apr-14	Oct-14	Apr-15	Apr-16
Total PCBs	0.5	ND	0.26	ND	0.46	ND	ND	ND	.07	ND	.28	ND	ND	0.13	NA	NA
Dissolved PCBs	ND	ND	ND	ND	0.63	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	.0046

MW-30	Feb-08	May-08	Mar-09	May-09	Oct-11	Feb-12	Apr-12	Jul-12	Oct-12	Feb-13	Apr-13	Oct-13	Apr-14	Oct-14	Apr-15	Apr-16
Total PCBs	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.23	0.0068	.022
Dissolved PCBs	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA

MW-32	Feb-08	Aug-08	Mar-09	May-09	Aug-09	Oct-11	Feb-12	Apr-12	Jul-12	Oct-12	Feb-13	Apr-13	Oct-13	Apr-14	Oct-14	Apr-15	Apr-16
Total PCBs	6	ND	ND	0.29	0.37	5.9	5.5	ND	3.7	9	1.4	ND	1	ND	190	17	12.7
Dissolved PCBs	ND	ND	ND	ND	ND	ND	3.8	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA

MW-28	Feb-08	May-08	Aug-08	Mar-09	May-09	Aug-09	Oct-11	Feb-12	Apr-12	Jul-12	Oct-12	Feb-13	Apr-13	Oct-13	Apr-14	Oct-14	Oct-14	Apr-15	Apr-16
Total PCBs	2.69	2.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.13	0.25	.019	
Dissolved PCBs	ND	ND	0.51	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA

MW-33	Feb-08	May-08	Aug-08	Mar-09	May-09	Aug-09	Oct-11	Feb-12	Apr-12	Jul-12	Oct-12	Feb-13	Apr-13	Oct-13	Apr-14	Oct-14	Apr-15	Apr-16
Total PCBs	2.3	ND	0.25	ND	0.31	0.41	ND	ND	ND	ND	.03	ND	ND	ND	0.31	ND	NA	NA
Dissolved PCBs	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA

MW-34	Feb-08	May-08	Aug-08	Nov-08	Mar-09	May-09	Aug-09	Oct-11	Feb-12	Apr-12	Jul-12	Oct-12	Feb-13	Apr-13	Oct-13	Apr-14	Oct-14	Apr-15	Apr-16
Total PCBs	ND	ND	ND	ND	0.21	ND	ND	ND	ND	ND	ND	.01	.12	ND	ND	0.074	0.15	0.015	.022
Dissolved PCBs	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA

MW-35	Feb-08	May-08	Aug-08	Nov-08	Mar-09	May-09	Aug-09	Oct-11	Feb-12	Apr-12	Jul-12	Oct-12	Feb-13	Apr-13	Oct-13	Apr-14	Oct-14	Apr-15	Apr-16
Total PCBs	0.093	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	.01	ND	ND	ND	0.039	ND	NA	NA
Dissolved PCBs	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA

MW-36	Feb-08	May-08	Aug-08	Nov-08	Mar-09	May-09	Aug-09	Oct-11	Feb-12	Apr-12	Jul-12	Oct-12	Feb-13	Apr-13	Oct-13	Apr-14	Oct-14	Apr-15	Apr-16
Total PCBs	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA
Dissolved PCBs	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA

MW-37	Feb-08	May-08	Aug-08	Nov-08	Mar-09	May-09	Aug-09	Oct-11	Feb-12	Apr-12	Jul-12	Oct-12	Feb-13	Apr-13	Oct-13	Apr-14	Oct-14	Apr-15	Apr-16
Total PCBs	ND	ND	ND	ND	ND	ND	ND	ND	.81	ND	ND	.25	ND	.55	ND	0.35	0.11	NA	NA
Dissolved PCBs	ND	ND	ND	ND	ND	ND	ND	0.34	.99	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA

MW-29	Feb-08	Aug-08	Nov-08	Mar-09	May-09	Oct-11	Feb-12	Apr-12	Jul-12	Oct-12	Feb-13	Apr-13	Oct-13	Apr-14	Oct-14	Apr-15	Apr-16
Total PCBs	0.376	1.53	NA	ND	0.11	1.8	0.47	ND	0.4	0.04	.76	1.5	.15	ND	0.14	0.52	.022
Dissolved PCBs	ND	0.51	NA	ND	ND	ND	1.3	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA

MW-38	Feb-08	May-08	Aug-08	Nov-08	Mar-09	May-09	Aug-09	Oct-11	Feb-12	Apr-12	Jul-12	Oct-12	Feb-13	Apr-13	Oct-13	Apr-14	Oct-14	Apr-15	Apr-16
Total PCBs	0.16	ND	ND	ND	ND	ND	ND	1.5	ND	ND	ND	.72	ND	ND	.79	ND	.044	0.81	.0071
Dissolved PCBs	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA

MW-40	Feb-08	Aug-08	May-09	Aug-09	Oct-11	Feb-12	Apr-12	Jul-12	Oct-12	Feb-13	Apr-13	Oct-13	Apr-14	Oct-14	Apr-15	Apr-16
Total PCBs	0.59	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dissolved PCBs	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA

MW-39	Feb-08	May-08	Aug-08	Nov-08	Mar-09	Oct-11	Feb-12	Apr-12	Jul-12	Oct-12	Feb-13	Apr-13	Oct-13	Apr-14	Oct-14	Apr-15	Apr-16
Total PCBs	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dissolved PCBs	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA

MW-41	Feb-08	May-08	Aug-08	Nov-08	Mar-09	May-09	Aug-09	Oct-11	Feb-12	Apr-12	Jul-12	Oct-12	Feb-13	Apr-13	Oct-13	Apr-14	Oct-14	Apr-15	Apr-16
Total PCBs	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	0.0064	ND
Dissolved PCBs	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA

MW-42	Feb-08	May-08	Aug-08	Nov-08	Mar-09	May-09	Aug-09	Oct-11	Feb-12	Apr-12	Jul-12	Oct-12	Feb-13	Apr-13	Oct-13	Apr-14	Oct-14	Apr-15	Apr-16
Total PCBs	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0034	ND
Dissolved PCBs	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA

MW-43	Feb-08	May-08	Aug-08	Nov-08	Mar-09	May-09	Aug-09	Oct-11	Feb-12	Apr-12	Jul-12	Oct-12	Feb-13	Apr-13	Oct-13	Apr-14	Oct-14	Apr-15	Apr-16
Total PCBs	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dissolved PCBs	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA

MW-31R
MW-31
MW-32R
MW-32
MW-30R3
MW-30R2
MW-30
MW-30R4
MW-30R
MW-29R3
MW-29R
MW-29R2
MW-29
MW-29R5
MW-29R4
MW-28R5
MW-28R4
MW-28
MW-28R
MW-28R2
MW-28R3
MW-33R2
MW-33
MW-33R
MW-34
MW-34R2
MW-34R
MW-35
MW-35R
MW-36R
MW-36R2
MW-36
MW-37
MW-37R
MW-38
MW-38R
MW-39
MW-39R
MW-40R2
MW-40
MW-40R
MW-41R
MW-41
MW-41R2
MW-42R
MW-42
MW-43R3
MW-43
MW-43R2
MW-43R
MW-41R2

PARCEL 3
PARCEL 3
PARCEL 2
PARCEL 1

GROUNDWATER
CUTOFF TRENCH

FLUSHING
RIVER

ROOSEVELT AVENUE
COLLEGE POINT BOULEVARD
40th ROAD

0' 25' 50' 100'
SCALE IN FEET

LEGEND:

- MW-43R — Replacement monitoring well
- MW-43 — Former monitoring well
- Parcel boundary
- Property boundary
- Interlocking Sheeting
- PCB — Total and dissolved PCB Concentrations shown in micrograms per liter (µg/L or ppb)
- ND — Not detected
- NA — Not Analyzed

©2013 AKRF, Inc. Environmental Consultants W:\AKRF Project Files\30141 - Musa Flushing\FIGURES - General\Fig PCB Groundwater Concentrations.dwg

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April 24, 2017

Ms. Ioana Munteanu-Ramnic, P.E.
Project Manager
New York State Department of Environmental Conservation
Division of Environmental Remediation, Region 2 Office
47-40 21st Street
Long Island City, NY 11101-5407

Re: Request for Delay in Groundwater Sampling Requirements
Flushing Industrial Park, Parcels 1, 2 and 3
BCP Site Nos. C241051, C241078 and C241079

Dear Ms. Munteanu-Ramnic:

AKRF Engineering, P.C. has been performing post-remedial groundwater sampling at the above referenced Parcels (see Figure 1) since 2006. Based on the results of 25 rounds of sampling through October 2012, the NYSDEC approved the reduction of groundwater sampling from a semi-annual to annual basis in November 2015; this change will be formally documented in revised SMPs (although NYSDEC had no additional comments on the Revised SMPs; their finalization and formal approval is pending the filing of updated easements).

Sampling of the 16 site groundwater monitoring wells for total PCBs continued on an annual basis in April 2016 until ground disturbance associated with construction of the Parcel 2 elevator building, the Parcel 3 waterfront esplanade, and construction material staging on the southwestern portion of the Site destroyed and/or blocked access to several of the groundwater monitoring wells. During a recent inspection on March 31, 2017, it was noted that monitoring wells MW-28R5, MW-29R5, MW-31R, MW-32R, MW-33R2, MW-34R2 and MW-40R2 were destroyed and wells MW-35R, MW-36R2, MW-37R and MW-38R were covered with staged construction materials, leaving only five accessible monitoring wells. Attached if Figure 13 from the Parcel 3 Site Management Plan (SMP), which shows the post-remediation monitoring well locations.

Based on the on-going subsurface construction and lack of accessible monitoring wells, AKRF is requesting NYSDEC approval to delay the April 2017 groundwater sampling event until intrusive construction activities on Parcels 2 and 3 are completed and the destroyed monitoring wells can potentially be re-installed (if required).

We appreciate your consideration and approval of the request to delay the April 2017 groundwater sampling event. Please feel free to contact me at (914) 922-2371 if you have any questions or concerns.

Sincerely,
AKRF, Inc.

Stephen Grens
Senior Environmental Professional

Enclosures: Figure 13 – Post Remediation Monitoring Well Plan

cc: C.Gioia – Onex
J. Coghlan, M. Chertok – Sive Paget & Riesel

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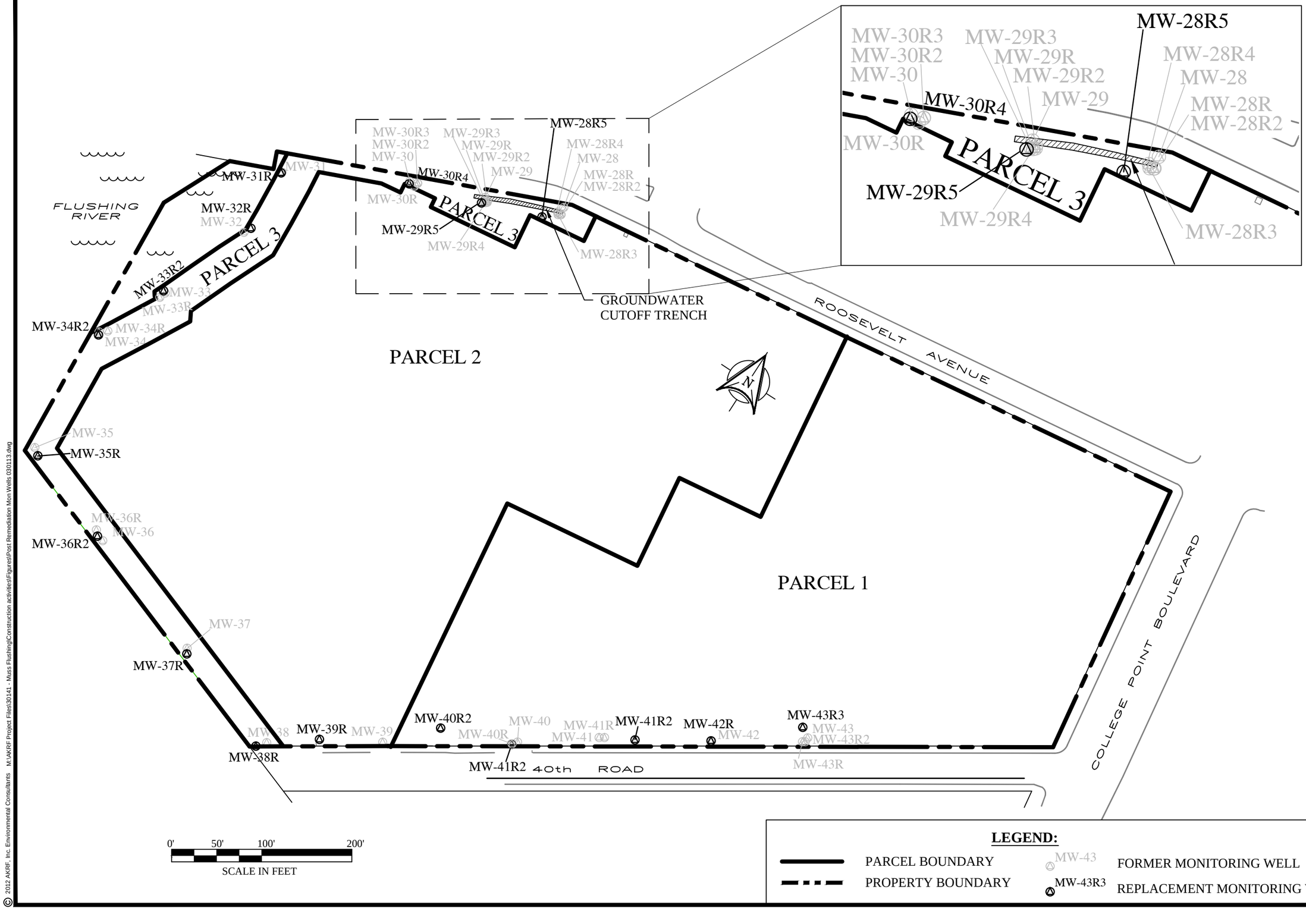

AKRF
Environmental Consultants
440 Park Avenue South, New York, N.Y. 10016

FLUSHING INDUSTRIAL PARK
FLUSHING, NEW YORK

POST-REMEDIATION MONITORING WELL PLAN

DATE
3.1.2013

SCALE
1"=100'

PROJECT No.
30141

FIGURE
13

© 2012 AKRF, Inc. Environmental Consultants M:\AKRF Project Files\30141 - Muss Flushing\Construction activities\Figures\Post Remediation Mon Wells 030113.dwg

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Environmental Remediation, Region 2
47-40 21st Street, Long Island City, NY 11101
P: (718) 482-4995
www.dec.ny.gov

May 4, 2018

Chris Gioia
Onex Real Estate Partners
695 Bloomfield Ave., 3rd Floor
Montclair, NJ 07042

Re: Flushing Industrial Park Parcels 1, 2 and 3
Site No. C241051, C241078 and C241079
Groundwater Sampling and Monitoring Well Modification Request

Dear Mr. Gioia:

The New York State Department of Environmental Conservation (the Department) has reviewed the April 23, 2018 letter prepared by AKRF Inc. on behalf of Onyx Real Estate Partners. The letter requests to delay groundwater sampling at the site to the period between June and August 2018. The delay is to allow for reinstallation of monitoring wells damaged or destroyed as a result of construction activities at the site. Specifically, the letter recommends reinstallation of wells MW-28R5, MW-31R, MW-32R, MW-34R2, MW-37R and MW-38R, followed by sampling of these reinstalled wells along with existing well MW-29R5. The Department concurs with this recommendation and the proposed schedule.

Please provide written notice to the Department at least 5 days prior to implementing field work related to the installation of the replacement wells. If the schedule outlined in the April 23 letter changes (i.e., if construction activities are delayed beyond August 2018), please provide a revised schedule no later than August 1, 2018.

Any remaining wells that will not be utilized for ongoing monitoring activities should be properly decommissioned in accordance with Commissioners Policy 43, which can be found at: https://www.dec.ny.gov/docs/remediation_hudson_pdf/cp43mwdecomm.pdf.

Please submit a revision to the approved SMP, including an updated site map to reflect the above approved modifications, within 30 days of the date of installation of the replacement monitoring wells and decommissioning of the surplus monitoring wells. If you have any questions regarding this mater, please contact Shaun Bollers at (718) 482-4096.

Sincerely,

Jane H. O'Connell

Jane H. O'Connell, P.G.
Chief, Superfund & Brownfield Cleanup Section

ec: Shaun Bollers, Rosalie Rusinko – NYSDEC
Justin Deming, Arunesh Ghosh – NYSDOH
Marcus Simons, Kate Brunner, Neoma Chefalo, Stephen Grens – AKRF
Jenn Coghlan, Mark Chertok – Sive Paget & Riesel, P.C.

APPENDIX D

DRUM DISPOSAL MANIFEST

PHONE: 631.608.8810
FAX: 631.608.8811

BROOKSIDE ENVIRONMENTAL
www.brooksideweb.com

Transporter Permit #1A-644
EPA ID #NYR000081661
BIC # 2935

NON-HAZARDOUS MANIFEST

1. Customer's US EPA ID NO.: Not Required
Document No.: —
2. Page 1 of: 1

3. Generator Site Address and Mailing Address: Flushing Industrial Park
40-22 College Point Boulevard, Flushing, NY 11354
4. Phone: 914-922-2371

A. Document Number: BEI 90418-1
B. State ID:

5. Transporter 1 Company Name: Brookside Environmental, Inc.
6. US EPA ID Number: NYR000081661
C. State Transporter's ID: 1A-644
D. Transporter's Phone: (631) 608-8810

7. Transporter 2 Company Name:
8. US EPA ID Number:
E. State Transporter's ID:
F. Transporter's Phone:

9. Designated Facility Name and Site Address:
Clean Water of New York
3249 Richmond Terrace
Staten Island, NY 10303
10. US EPA ID Number: NYD000968545
G. State Facility's ID:
H. Facility's Phone: (718) 981-4600

11. US DOT Description (Including Proper Shipping Name)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	L. Waste No.
a. ~~Non-hazardous waste solid, nos Non-RCRA/Non-DOT Hazardous.~~		DM		P	
b. Non-hazardous waste liquid, nos Non-RCRA/Non-DOT Hazardous	6	DM	300	G	
c.					
d.					

J. Additional Descriptions for Materials Listed Above:

K. Handling Codes for Wastes Listed Above:

15. Special Handling Instructions and Additional Information
~~a) App# 237-028~~
b) App# 237-029

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

Printed / Type Name: MARCO BALLETTA (AS AGENT FOR SKY VIEW PARC II, L.P.) Signature: [signature] DATE: Month 9 Day 4 Year 18

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed / Type Name: OSCAR Parada Signature: [signature] DATE: Month 9 Day 4 Year 18

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed / Type Name: Signature: DATE: Month Day Year

FACILITY

19. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted.

Printed / Typed Name: DATE: Month Day Year

APPENDIX D

SITE-WIDE INSPECTION FORM

SITE-WIDE INSPECTION FORM
FLUSHING INDUSTRIAL PARK
COLLEGE POINT BOULEVARD AND 40TH ROAD, FLUSHING, NEW YORK

Inspector: Steve Grens of AKRF, Inc.

Date: September 4, 2019

1. Site Use Restrictions

No on-site vegetable gardens? None observed.

No groundwater withdrawal for potable/non-potable use? None.

Restricted residential use maintained? Six residential towers are occupied. The parking garages and commercial/retail areas at grade are also occupied and opened for the public. Construction materials are staged on the asphalt-pavement on the southern portions of Parcels 1 and 2 for construction of the SVP West Entrance Pavilion and the Parcel 3 esplanade.

2. Site Cap

Note the date that the annual site cap inspection was performed:
April 20, 2018, concurrent with site-wide inspection.

Repairs made as noted during inspection?
Portions of the site cover were removed on the southwestern portion of Parcel 1 and the Southeastern portion of Parcel 2 for construction of the SVP West Entrance Pavilion. Site cover repairs will be made following completion of construction in these areas. No other signs of significant cracking or damage observed on any of the concrete or asphalt-paved parking areas, loading dock areas, concrete sidewalks.

3. Soil Management

Note the date(s) of any soil disturbance activities conducted during the past year:
Soil disturbance in RMZ A soil was conducted during the past year at the SVP West Entrance Pavilion. RMZ A soil was disturbed at the Parcel 3 esplanade for the retaining wall construction.

Proper soil management procedures implemented (cite appropriate close-out reports)?
Soil management procedures were performed in accordance with the SMPs.

4. Groundwater Monitoring

Monitoring being conducted on an annual basis (note the dates of sampling conducted)?
Due to on-going construction on Parcels 2 and 3, several of the groundwater monitoring wells were damaged and/or destroyed. The wells (MW-31R, 32R, 34R2, 37R, and 38R) were reinstalled in May 2018 and subsequently sampled as part of the annual groundwater sampling event. The groundwater sampling event in May 2018 occurred after the reporting period and will be discussed in the 2018-2019 PRR.

All on-site monitoring wells in working condition (note any repairs/replacement)?
During the inspection, it was noted that monitoring wells MW-28R5, MW-29R5, MW-31R, MW-32R, MW-33R2, MW-34R2 and MW-40R2 were destroyed and wells MW-35R, MW-36R2, MW-37R and MW-38R were covered with staged construction materials, leaving only five accessible monitoring wells.

5. Sub-Slab Depressurization System (SSDS) Visual Inspection

Note: As of September 2013, SSDS is passive and fans are intentionally left turned off.
If damage noted below, document the location and name of the pipe and recommended corrective actions (or immediate actions taken).

First floor locations (SVCS lines 1A through 8A) in the fire station stairwells north and south of western retail building intact?: The first floor fans were off. No damage was noted to the fans and/or SSDS riser piping.

Fourth floor locations (SVCS lines 1B through 8B) in the fire station stairwells north and south of western retail building intact?: The fourth floor fans were off. The SSDS riser piping in the northern stairwell bulkhead was manifolded into one 6-inch riser pipe that extended from the 3rd to 4th floor atop the newly constructed stairwell bulkhead roof. The SSDS riser piping in the southern stairwell bulkhead was extended from the 3rd to 4th floor atop the newly constructed bulkhead roof into pipe enclosures (a.k.a. doghouses) equipped with louvers to vent passive SSDS exhaust.

6. Recordkeeping

SITE-WIDE INSPECTION FORM
FLUSHING INDUSTRIAL PARK
COLLEGE POINT BOULEVARD AND 40TH ROAD, FLUSHING, NEW YORK

Check that the following records/reports are being maintained/completed (note report/log dates as appropriate):

1) Annual site cap inspection log: The site cover inspection logs are maintained as part of the Annual Periodic Review Reports by AKRF and owner's representative. According to the owner's representative, CDs/DVDs of all reports are maintained in on-site management office.

2) Close-out report(s) for soil disturbance activities (including manifests for soil disposal): Reports documenting previous soil disturbance activities are maintained by AKRF and the owner's representative. No soil disturbance occurred during the reporting period.

3) Groundwater monitoring reports (including laboratory analytical data): Copies of past quarterly and semi-annual groundwater monitoring reports and Periodic Review Reports are maintained by AKRF, Inc. and the owner's representative.

7. Comments

No further comments

APPENDIX E

INSTITUTIONAL CONTROLS/ENGINEERING CONTROLS CERTIFICATION

Enclosure 2

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Site Management Periodic Review Report Notice
Institutional and Engineering Controls Certification Form

Site Details **Box 1**

Site No. C241051

Site Name Flushing Industrial Park (Eastern) Parcel 1

Site Address: NW Corner of College Pt Boulevard & 40th Road Zip Code: 11354
City/Town: Flushing
County: Queens
Site Acreage: 5.420
Reporting Period: ~~May 16, 2018~~ August 30, 2018 to ~~May 16, 2019~~ August 30, 2019. (SG)

	YES	NO
1. Is the information above correct?	X	
If NO, include handwritten above or on a separate sheet.		
2. Has some or all of the site property been sold, subdivided, merged, or undergone a tax map amendment during this Reporting Period?	X	
3. Has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11(d))?		X
4. Have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property during this Reporting Period?		X
If you answered YES to questions 2 thru 4, include documentation or evidence that documentation has been previously submitted with this certification form.		
5. Is the site currently undergoing development?		X

Box 2

	YES	NO
6. Is the current site use consistent with the use(s) listed below? Restricted-Residential, Commercial, and Industrial	X	
7. Are all ICs/ECs in place and functioning as designed?	X	

IF THE ANSWER TO EITHER QUESTION 6 OR 7 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

Signature of Owner, Remedial Party or Designated Representative

9/24/19
Date

Box 2A

	YES	NO
8. Has any new information revealed that assumptions made in the Qualitative Exposure Assessment regarding offsite contamination are no longer valid?	☐	X
9. Are the assumptions in the Qualitative Exposure Assessment still valid? (The Qualitative Exposure Assessment must be certified every five years)	X	

If you answered YES to question 8, include documentation or evidence that documentation has been previously submitted with this certification form.

If you answered NO to question 9, the Periodic Review Report must include an updated Qualitative Exposure Assessment based on the new assumptions.

SITE NO. C241051 **Box 3**

Description of Institutional Controls

Parcel	Owner	Institutional Control
5066-1201 portion of	BRE Skyview Retail Owner LLC	Site Management Plan Ground Water Use Restriction Landuse Restriction Building Use Restriction Soil Management Plan

Grantor and Grantee acknowledge that the Purposes of this Environmental Easement are: to convey to Grantee real property rights and interests that will run with the land in perpetuity (or until extinguished in accordance with the terms hereof) in order to provide an effective and enforceable means of encouraging the reuse and development of this Controlled Property at a level that has been determined to be safe for a specific use while ensuring the performance of operation, maintenance, and/or monitoring requirements; and to ensure the potential restriction of hture uses of the land that are inconsistent with the above-stated purpose.

2. Institutional and Engineering Controls.

A. Site Management Plan. The Grantor hereby acknowledges receipt of a copy of the NYSDEC-approved Site Management Plan, dated December 2007 ("SMP"). The SMP, which is incorporated into the terms of this Environmental Easement, describes obligations that Grantor assumes on behalf of Grantor, its successors and assigns. The Grantor's assumption of the obligations contained in the SMP which may include sampling, monitoring, and/or operating a treatment system on the Controlled Property, and providing certified reports to the NYSDEC, is a fundamental element of the Department's determination that the Controlled Property is and remains safe for a specific use, but not all uses. The Department may approve changes to the SMP for the Controlled Property from time to time on the basis of requests or information submitted by Grantor, and modifications in applicable statutes regulations, guidance or site conditions. The Department reserves a unilateral right to modify the SMP. Upon notice of not less than thirty (30) days the Department in exercise of its discretion and consistent with applicable law may revise the SMP. The notice shall be a final agency determination. The Grantor and all successors and assigns, assume the burden of performing all of the obligations contained in the SMP and obtaining an up-to-date version of the SMP from:

Regional Remediation Engineer:
Region 2
New York State Department of
Environmental Conservation
Hunters Point Plaza
47-40 21st Street
Long Island City, NY 11101-5401
or:
Site Control Section
Division of Environmental Remediation
NYS Department of Environmental Conservation
625 Broadway
Albany, New York 12233

B. The following controls apply to the use of the Controlled Property, run with the land, are binding on the Grantor and the Grantor's successors and assigns, and are enforceable in law or equity against any owner of the Controlled Property, any lessees, and any person using the Controlled Property:

(i) The Controlled Property may be used for Restricted-Residential use, as defined in 6 NYCRR 375-1.8(g)(2)(ii), as long as the long-term Institutional and Engineering controls set forth in the SMP dated December 2007 and any subsequent amendments thereto as may be approved by the Department are employed. Such institutional and engineering controls may not be discontinued without an amendment or extinguishment of this Environmental Easement, and include, but are not limited to the following:

a. an annual inspection of the Controlled Property will be conducted and an annual certification will be submitted to the Department by a New York State Licensed Professional Engineer, stating that long-term institutional and engineering controls have been properly monitored and maintained, in accordance with the SMP (including documentation of any repairs conducted since the prior certification); and

b. the use of the groundwater underlying the Controlled Property for any purpose, including but not limited

to, potable, process or irrigation water, is prohibited
without the implementation of necessary water quality treatment as determined by the New York State Departments of Health and Environmental Conservation; and

c. any proposed soil excavation or other activities on the property below the composite cover (consisting of asphalt, concrete or a minimum of two (2) feet of clean fill (meeting the Part 375 SCO calculated as the lower of the SCOs for Residential Use and for Protection of Groundwater, or for which specific approval was given by NYSDEC) requires prior notification to NYSDEC, in
accordance with the SMP, and the excavated soil and construction waste water must be managed, characterized, and properly disposed of in accordance with the
SMP; and

d. single family housing, vegetable gardens, farming, schools and day care facility are prohibited on the Controlled Property; and

e. all Engineering Controls must be operated and maintained as specified in the SMP; and

f. data and information pertinent to Site Management for the Controlled Property must be reported at the frequency and in a manner defined in the SMP; and

g. on-Site environmental monitoring devices, ~~including but not limited to, groundwater monitoring wells,~~ must be protected and replaced as necessary to ensure continued functioning in the manner specified in the SMP. Groundwater Monitoring discontinued and monitoring wells abandoned in May 2019 per NYSDEC Approval

C. The Controlled Property may not be used for a less restricted level of use, such as residential use, nor may the parking areas be converted to other enclosed purposes,
without an amendment or the extinguishment of this Environmental Easement.

Box 4

Description of Engineering Controls

Parcel	Engineering Control
5066-1201 portion of	Cover System Subsurface Barriers Alternate Water Supply

Box 5

Periodic Review Report (PRR) Certification Statements

1. I certify by checking "YES" below that:

   a) the Periodic Review report and all attachments were prepared under the direction of, and reviewed by, the party making the certification;

   b) to the best of my knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the site remedial program, and generally accepted engineering practices; and the information presented is accurate and compete.

YES	NO
X	☐

2. If this site has an IC/EC Plan (or equivalent as required in the Decision Document), for each Institutional or Engineering control listed in Boxes 3 and/or 4, I certify by checking "YES" below that all of the following statements are true:

   (a) the Institutional Control and/or Engineering Control(s) employed at this site is unchanged since the date that the Control was put in-place, or was last approved by the Department; – Groundwater Monitoring Wells Abandoned in May 2019 per NYSDEC approval.

   (b) nothing has occurred that would impair the ability of such Control, to protect public health and the environment;

   (c) access to the site will continue to be provided to the Department, to evaluate the remedy, including access to evaluate the continued maintenance of this Control;

   (d) nothing has occurred that would constitute a violation or failure to comply with the Site Management Plan for this Control; and

   (e) if a financial assurance mechanism is required by the oversight document for the site, the mechanism remains valid and sufficient for its intended purpose established in the document.

YES	NO
X	☐

IF THE ANSWER TO QUESTION 2 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

GB — Signature of Owner, Remedial Party or Designated Representative

9/24/19 — Date

IC CERTIFICATIONS
SITE NO. C241051

Box 6

SITE OWNER OR DESIGNATED REPRESENTATIVE SIGNATURE

I certify that all information and statements in Boxes 1,2, and 3 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I MAJA OSTOJIC at 40-24 COLLEGE POINT BLVD, FLUSHING, NY 11354
print name print business address

am certifying as REMEDIAL PARTY (Owner or Remedial Party)

for the Site named in the Site Details Section of this form.

Signature of Owner, Remedial Party, or Designated Representative Rendering Certification

5/24/15
Date

IC/EC CERTIFICATIONS

Box 7

Professional Engineer Signature

I certify that all information in Boxes 4 and 5 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I Michelle Lapin at 440 Park Ave South, NY, NY 10016.
print name print business address

am certifying as a Professional Engineer for the Owner
(Owner or Remedial Party)

Signature of Professional Engineer, for the Owner or Remedial Party, Rendering Certification

Stamp (Required for PE)

9.27.19
Date

Enclosure 2

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Site Management Periodic Review Report Notice
Institutional and Engineering Controls Certification Form

Site Details **Box 1**

Site No. **C241078**

Site Name Flushing Industrial Park (Western) Parcel 2

Site Address: NW Corner of College Pt Blvd & 40th Road Zip Code: 11354
City/Town: Flushing
County: Queens
Site Acreage: 6.990
Reporting Period: ~~May 16, 2018 to May 16, 2019~~ August 30, 2018 to August 30, 2019 (SG)

	YES	NO
1. Is the information above correct?	X	☐
If NO, include handwritten above or on a separate sheet.		
2. Has some or all of the site property been sold, subdivided, merged, or undergone a tax map amendment during this Reporting Period?	X	☐
3. Has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11(d))?	☐	X
4. Have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property during this Reporting Period?	☐	X
If you answered YES to questions 2 thru 4, include documentation or evidence that documentation has been previously submitted with this certification form.		
5. Is the site currently undergoing development?	☐	X

Box 2

	YES	NO
6. Is the current site use consistent with the use(s) listed below? Restricted-Residential, Commercial, and Industrial	X	☐
7. Are all ICs/ECs in place and functioning as designed?	X	☐

IF THE ANSWER TO EITHER QUESTION 6 OR 7 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

Signature of Owner, Remedial Party or Designated Representative

9/24/19
Date

	Box 2A	
	YES	NO
8. Has any new information revealed that assumptions made in the Qualitative Exposure Assessment regarding offsite contamination are no longer valid?	☐	☒
If you answered YES to question 8, include documentation or evidence that documentation has been previously submitted with this certification form.		
9. Are the assumptions in the Qualitative Exposure Assessment still valid? (The Qualitative Exposure Assessment must be certified every five years)	☒	☐
If you answered NO to question 9, the Periodic Review Report must include an updated Qualitative Exposure Assessment based on the new assumptions.		

SITE NO. C241078	**Box 3**
Description of Institutional Controls	

Parcel	Owner	Institutional Control
5066-1201 portion of	BRE Skyview Retail Owner LLC	Site Management Plan Ground Water Use Restriction Landuse Restriction Building Use Restriction

Grantor and Grantee acknowledge that the Purposes of this Environmental Easement are: to convey to Grantee real property rights and interests that will run with the land in perpetuity (or until extinguished in accordance with the terms hereof) in order to provide an effective and enforceable means of encouraging the reuse and redevelopment of this Controlled Property at a level that has been determined to be safe for a specific use while ensuring the performance of operation, maintenance, and/or monitoring requirements; and to ensure the potential restriction of future uses of the land that are inconsistent with the above-stated purpose.

2. Institutional and Engineering Controls.

A. Site Management Plan. The Grantor hereby acknowledges receipt of a copy of the NYSDEC-approved Site Management Plan, dated December 2007 ("SMP"). The SMP, which is incorporated into the terms of this Environmental Easement, describes obligations that Grantor assumes on behalf of Grantor, its successors and assigns. The Grantor's assumption of the obligations contained in the SMP which may include sampling, monitoring, and/or operating a treatment system on the Controlled Property, and providing certified reports to the NYSDEC, is a fundamental element of the Department's determination that the Controlled Property is and remains safe for a specific use, but not all uses. The Department may approve changes to the SMP for the Controlled Property from time to time on the basis of requests or information submitted by Grantor, and modifications in applicable statutes regulations, guidance or site conditions. The Department reserves a unilateral right to modify the SMP. Upon notice of not less than thirty (30) days the Department in exercise of its discretion and consistent with applicable law may revise the SMP. The notice shall be a final agency determination. The Grantor and all successors and assigns, assume the burden of performing all of the obligations contained in the SMP and obtaining an up-to-date version of the SMP from:

Regional Remediation Engineer:
Region 2
New York State Department of
Environmental Conservation
Hunters Point Plaza
47-40 21 st Street
Long Island City, NY 1 1 101-5401
or:
Site Control Section Division of Environmental Remediation
NYS Department of Environmental Conservation
625 Broadway
Albany, New York 12233

The following controls apply to the use of the Controlled Property, run with the land, are binding on the Grantor and the Grantor's successors and assigns, and are enforceable in law or equity against any owner of the Controlled Property, any lessees, and any person using the Controlled Property:

(i) The Controlled Property may be used for Restricted-Residential use, as defined in 6 NYCRR 375-1.8(g)(Z)(ii), as long as the long-term Institutional and Engineering controls set forth in the SMP dated December 2007 and any subsequent amendments thereto as may be approved by the Department are employed. Such institutional and engineering controls may not be discontinued without an amendment or extinguishment of this Environmental Easement, and include, but are not limited to the following:

a. an annual inspection of the Controlled Property will be conducted and an annual certification will be submitted to the Department by a New York State Licensed Professional Engineer, stating that long-term institutional and engineering controls have been properly monitored and maintained, in accordance with theSMP (including documentation of any repairs conducted since the prior certification); and

b. a soil vapor mitigation system consisting of a vapor barrier and sub-slab depressurization system under the building structure with retail use at grade must be inspected, certified, operated and maintained in accordance with the SMP; and

c. the use of the groundwater underlying the Controlled Property for any purpose, including but not limited

to, potable, process or irrigation water, is prohibited without the implementation of necessary water quality treatment as determined by the New York State Departments of Health and Environmental Conservation; and

d. any proposed soil excavation or other activities on the property below the composite cover (consisting of asphalt, concrete or a minimum of two (2) feet of clean fill (meeting the Part 375 SCO calculated as the lower of the SCOs for Residential Use and for Protection of groundwater, or for which specific approval was given by NYSDEC) requires prior notification to NYSDEC, in accordance with the SMP, and the excavated soil and construction waste water must be managed, characterized, and properly disposed of in accordance with the SMP; and

e. single family housing, vegetable gardens, farming, schools and day care facility are prohibited on the Controlled Property; and

f. all Engineering Controls must be operated and maintained as specified in the SMP; and

g. data and information pertinent to Site Management for the Controlled Property must be reported at the frequency and in a manner defined in the SMP; and

h. on-Site environmental monitoring devices, including but not limited to, groundwater monitoring wells and soil vapor monitoring points, must be protected and replaced as necessary to ensure continued functioning in the manner specified in the SMP.

C. The Controlled Property may not be used for a less restricted level of use, such as residential use, nor may the parking areas be converted to other enclosed purposes, without an amendment or the extinguishment of this Environmental Easement.

5066-1205 - portion BRE Skyview Retail Owner, LLC

Site Management Plan
Ground Water Use Restriction
Landuse Restriction
Building Use Restriction

Grantor and Grantee acknowledge that the Purposes of this Environmental Easement are: to convey to Grantee real property rights and interests that will run with the land in perpetuity (or until extinguished in accordance with the terms hereof) in order to provide an effective and enforceable means of encouraging the reuse and redevelopment of this Controlled Property at a level that has been determined to be safe for a specific use while ensuring the performance of operation, maintenance, and/or monitoring requirements; and to ensure the potential restriction of future uses of the land that are inconsistent with the above-stated purpose.

2. Institutional and Engineering Controls.

A. Site Management Plan. The Grantor hereby acknowledges receipt of a copy of the NYSDEC-approved Site Management Plan, dated December 2007 ("SMP"). The SMP, which is incorporated into the terms of this Environmental Easement, describes obligations that Grantor assumes on behalf of Grantor, its successors and assigns.

The Grantor's assumption of the obligations contained in the SMP which may include sampling, monitoring, and/or operating a treatment system on the Controlled Property, and providing certified reports to the NYSDEC, is a fundamental element of the Department's determination that the Controlled Property is and remains safe for a specific use, but not all uses. The Department may approve changes to the SMP for the Controlled Property from time to time on the basis of requests or information submitted by Grantor, and modifications in applicable statutes regulations, guidance or site conditions. The Department reserves a unilateral right to modify the SMP.

Upon notice of not less than thirty (30) days the Department in exercise of its discretion and consistent with applicable law may revise the SMP. The notice shall be a final agency determination. The Grantor and all successors and assigns, assume the burden of performing all of the obligations contained in the SMP and obtaining an up-to-date version of the SMP from:

Regional Remediation Engineer:
Region 2
New York State Department of
Environmental Conservation
Hunters Point Plaza
47-40 21 st Street
Long Island City, NY 1 1 101-5401
or:
Site Control Section Division of Environmental Remediation
NYS Department of Environmental Conservation

625 Broadway
Albany, New York 12233
The following controls apply to the use of the Controlled Property, run with the land, are binding on the Grantor and the Grantor's successors and assigns, and are
enforceable in law or equity against any owner of the Controlled Property, any lessees, and any person using the Controlled Property:
(i) The Controlled Property may be used for Restricted-Residential use, as defined in
6 NYCRR 375-1.8(g)(Z)(ii), as long as the long-term Institutional and Engineering controls set forth in the SMP dated December 2007 and any subsequent amendments thereto as may be approved by the Department are
employed. Such institutional and engineering controls may not be discontinued without an amendment or extinguishment of this Environmental Easement, and include, but are not limited to the following:
a. an annual inspection of the Controlled Property will be conducted and an
annual certification will be submitted to the Department by a New York State
Licensed Professional Engineer, stating that long-term institutional and engineering controls have been properly monitored and maintained, in accordance with the SMP (including documentation of any repairs conducted since the prior certification); and
b. a soil vapor mitigation system consisting of a vapor barrier and sub-slab depressurization system under the building structure with retail use at grade must be inspected, certified, operated and maintained in accordance with the SMP; and
c. the use of the groundwater underlying the Controlled Property for any purpose, including but not limited to, potable, process or irrigation water, is prohibited without the implementation of necessary water quality treatment as determined by the New York State Departments of Health and Environmental Conservation; and
d. any proposed soil excavation or other activities on the property below the composite cover (consisting of asphalt, concrete or a minimum of two (2) feet of clean fill (meeting the Part 375 SCO calculated as the lower of the SCOs for Residential Use and for Protection of groundwater, or for which specific approval was given by NYSDEC) requires prior notification to NYSDEC, in accordance with the SMP, and the excavated soil and construction waste water must be managed, characterized, and properly disposed of in accordance with
the SMP; and
e. single family housing, vegetable gardens, farming, schools and day care
facility are prohibited on the Controlled Property; and .
f. all Engineering Controls must be operated and maintained as specified in the
SMP; and
g. data and information pertinent to Site Management for the Controlled Property must be reported at the frequency and in a manner defined in the SMP; and (SB)
h. on-Site environmental monitoring devices, ~~including but not limited to, groundwater monitoring wells~~ and soil vapor monitoring points, must be protected and replaced as necessary to ensure continued functioning in the manner specified in the SMP Groundwater monitoring discontinued and wells abandoned in May 2019 per NYSDEC-Approval
C. The Controlled Property may not be used for a less restricted level of use, such as residential use, nor may the parking areas be converted to other enclosed purposes, without an amendment or the extinguishment of this Environmental Easement.

Box 4

Description of Engineering Controls

Parcel	Engineering Control
5066-1201 portion of	
	Subsurface Barriers
	Vapor Mitigation
	Cover System
	Alternate Water Supply
5066-1205 - portion	
	Vapor Mitigation
	Cover System
	Subsurface Barriers
	Alternate Water Supply

Box 5

Periodic Review Report (PRR) Certification Statements

1. I certify by checking "YES" below that:

   a) the Periodic Review report and all attachments were prepared under the direction of, and reviewed by, the party making the certification;

   b) to the best of my knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the site remedial program, and generally accepted engineering practices; and the information presented is accurate and compete.

YES	NO
X	☐

2. If this site has an IC/EC Plan (or equivalent as required in the Decision Document), for each Institutional or Engineering control listed in Boxes 3 and/or 4, I certify by checking "YES" below that all of the following statements are true:

   (a) the Institutional Control and/or Engineering Control(s) employed at this site is unchanged since the date that the Control was put in-place, or was last approved by the Department; – Groundwater monitoring wells abandoned in May 2019 per NYSDEC - Approved. GC

   (b) nothing has occurred that would impair the ability of such Control, to protect public health and the environment;

   (c) access to the site will continue to be provided to the Department, to evaluate the remedy, including access to evaluate the continued maintenance of this Control;

   (d) nothing has occurred that would constitute a violation or failure to comply with the Site Management Plan for this Control; and

   (e) if a financial assurance mechanism is required by the oversight document for the site, the mechanism remains valid and sufficient for its intended purpose established in the document.

YES	NO
X	☐

IF THE ANSWER TO QUESTION 2 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

Signature of Owner, Remedial Party or Designated Representative

9/24/19
Date

IC CERTIFICATIONS
SITE NO. C241078

Box 6

SITE OWNER OR DESIGNATED REPRESENTATIVE SIGNATURE

I certify that all information and statements in Boxes 1,2, and 3 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I MEJA OSTOJIC at 40-24 COLLEGE POINT BLVD FLUSHING NY 11354
print name print business address

am certifying as REMEDIAL PARTY (Owner or Remedial Party)

for the Site named in the Site Details Section of this form.

Signature of Owner, Remedial Party, or Designated Representative Rendering Certification

5/24/19
Date

IC/EC CERTIFICATIONS

Box 7

Professional Engineer Signature

I certify that all information in Boxes 4 and 5 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I Michelle Lapin at 440 Park Ave South, NY, NY 10016.
print name print business address

am certifying as a Professional Engineer for the Owner
(Owner or Remedial Party)

Signature of Professional Engineer, for the Owner or Remedial Party, Rendering Certification

Stamp (Required for PE)

9.27.19
Date

Enclosure 2

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Site Management Periodic Review Report Notice
Institutional and Engineering Controls Certification Form

Site Details **Box 1**

Site No. C241079

Site Name Flushing Indust. Pk. (Western Waterfront) Parcel 3

Site Address: NW Corner of College Pt Blvd & 40th Road Zip Code: 11354
City/Town: Flushing
County: Queens
Site Acreage: 0.880
Reporting Period: ~~May 16, 2018 to May 16, 2019~~ August 30, 2018 to August 30, 2019.

	YES	NO
1. Is the information above correct?	X	☐
If NO, include handwritten above or on a separate sheet.		
2. Has some or all of the site property been sold, subdivided, merged, or undergone a tax map amendment during this Reporting Period?	X	☐
3. Has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11(d))?	☐	X
4. Have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property during this Reporting Period?	☐	X
If you answered YES to questions 2 thru 4, include documentation or evidence that documentation has been previously submitted with this certification form.		
5. Is the site currently undergoing development?	☐	X

Box 2

	YES	NO
6. Is the current site use consistent with the use(s) listed below? Restricted-Residential, Commercial, and Industrial	X	☐
7. Are all ICs/ECs in place and functioning as designed?	X	☐

IF THE ANSWER TO EITHER QUESTION 6 OR 7 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

Signature of Owner, Remedial Party or Designated Representative

9/24/19
Date

Box 2A

	YES	NO
8. Has any new information revealed that assumptions made in the Qualitative Exposure Assessment regarding offsite contamination are no longer valid?	☐	☒
9. Are the assumptions in the Qualitative Exposure Assessment still valid? (The Qualitative Exposure Assessment must be certified every five years)	☒	☐

If you answered YES to question 8, include documentation or evidence that documentation has been previously submitted with this certification form.

If you answered NO to question 9, the Periodic Review Report must include an updated Qualitative Exposure Assessment based on the new assumptions.

SITE NO. C241079 **Box 3**

Description of Institutional Controls

Parcel	Owner	Institutional Control
5066-1203	BRE Skyview Parking Owner LLC	Site Management Plan Ground Water Use Restriction Soil Management Plan Landuse Restriction Building Use Restriction

Grantor and Grantee acknowledge that the Purposes of this Environmental Easement are: to convey to Grantee real property rights and interests that will run with the land in perpetuity (or until extinguished in accordance with the terms hereof) in order to provide an effective and enforceable means of encouraging the reuse and redevelopment of this Controlled Property at a level that has been determined to be safe for a specific use while ensuring the performance of operation, maintenance, and/or monitoring requirements; and to ensure the potential restriction of future uses of the land that are inconsistent with the above-stated purpose.

2. Institutional and Engineering Controls.

A. Site Management Plan. The Grantor hereby acknowledges receipt of a copy of the NYSDEC-approved Site Management Plan, dated November 2007 "SMP"). The SMP, which is incorporated into the terms of this Environmental Easement, describes obligations that Grantor assumes on behalf of Grantor, its successors and assigns. The Grantor's assumption of the obligations contained in the SMP which may include sampling, monitoring, and/or operating a treatment system on the Controlled Property, and providing certified reports to the NYSDEC, is a fundamenental element of the Department's determination that the Controlled Property is and remains safe for a specific use, but not all uses. The Department may approve changes to the SMP for the Controlled Property from time to time on the basis of requests or information submitted by Grantor, and modifications in applicable statutes regulations, guidance or site conditions. The Department reserves a unilateral right to modify the SMP. The Grantor and all successors and assigns, assume the burden of performing all of the obligations contained in the SMP and obtaining an up-to-date version of the SMP from:

Regional Remediation Engineer:
Region 2
NYSDEC
Hunters Point Plaza
47-40 21 st Street
Long Island City, NY 1 1 101-5401
or:
Site Control Section
Division of Environmental Remediation
NYSDEC
625 Broadway
Albany, New York 12233

B. The following controls apply to the use of the Controlled Property, run with the land, are binding on the Grantor and the Grantor's successors and assigns, and are enforceable in law or equity against any owner of the Controlled Property, any lessees, and any person using the Controlled Property:

(i) The Controlled Property may be used for Restricted-Residential use, as defined in 6 NYCRR 375-1.8(g)(2)(ji), as long as the long-term Institutional and Engineering controls set forth in the SMP dated November 2007 and any subsequent amendments thereto as may be approved by the Department are employed. Such institutional and engineering controls may not be discontinued without an amendment or extinguishment of this Environmental Easement, and include, but are not limited to the following:

a. in annual inspection of the Controlled Property will be conducted and an annual certification will be submitted to the Department by a New York State Licensed Professional Engineer, stating that long-tenn institutional and engineering controls have been properly monitored and maintained, in accordance with the SMP (including documentation of any repairs conducted since the prior certification); and

b. the use of the groundwater underlying the Controlled Property for any purpose, including but not limited to, potable, process or irrigation water,is prohibited without the implementation of necessary water quality treatment as determined by the New York State Departments of Health and Environmental Conservation; and

c. any proposed soil excavation or other activities on the property below the composite cover (consisting of asphalt, concrete or a minimum of two (2)feet of clean fill (meeting the Part 375 Restricted Residential SCOs, or for

which specific approval was given by NY SDEC) requires prior notification to NYSDEC, in accordance with the SMP, and the excavated soil and construction waste water must be managed, characterized, and properly disposed of in accordance with the SMP; and

d. single family housing, vegetable gardens, farming, schools and day care facility are prohibited on the Controlled Property, and

e. all Engineering Controls must be operated and maintained as specified in the SMP; and

f. data and information pertinent to Site Management for the Controlled Property must be reported at the frequency and in a manner defined in the SMP; and

g. on-Site environmental monitoring devices, ~~including but not limited to, groundwater monitoring wells,~~ (SV) must be protected and replaced as necessary to ensure continued functioning in the manner specified in the SMP. Groundwater monitoring discontinued and Monitoring wells abandoned in May 2014 per NYSDEC Approval.

C. The Controlled Property may not be used for a less restricted level of use, such as residential use without an amendment or the extinguishment of this Environmental Easement.

Box 4

Description of Engineering Controls

Parcel	Engineering Control
5066-1203	Cover System

Box 5

Periodic Review Report (PRR) Certification Statements

1. I certify by checking "YES" below that:

   a) the Periodic Review report and all attachments were prepared under the direction of, and reviewed by, the party making the certification;

   b) to the best of my knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the site remedial program, and generally accepted engineering practices; and the information presented is accurate and compete.

YES	NO
X	☐

2. If this site has an IC/EC Plan (or equivalent as required in the Decision Document), for each Institutional or Engineering control listed in Boxes 3 and/or 4, I certify by checking "YES" below that all of the following statements are true:

   (a) the Institutional Control and/or Engineering Control(s) employed at this site is unchanged since the date that the Control was put in-place, or was last approved by the Department; - Groundwater Monitoring Wells abandoned in May 2015 per NYSDEC Approval.

   (b) nothing has occurred that would impair the ability of such Control, to protect public health and the environment;

   (c) access to the site will continue to be provided to the Department, to evaluate the remedy, including access to evaluate the continued maintenance of this Control;

   (d) nothing has occurred that would constitute a violation or failure to comply with the Site Management Plan for this Control; and

   (e) if a financial assurance mechanism is required by the oversight document for the site, the mechanism remains valid and sufficient for its intended purpose established in the document.

YES	NO
X	☐

IF THE ANSWER TO QUESTION 2 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

Signature of Owner, Remedial Party or Designated Representative

9/24/19
Date

IC CERTIFICATIONS
SITE NO. C241079

Box 6

SITE OWNER OR DESIGNATED REPRESENTATIVE SIGNATURE

I certify that all information and statements in Boxes 1,2, and 3 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I MAJA OSTOJIC (print name) at 40-24 College Point Blvd, Flushing NY, 11354 (print business address)

am certifying as REMEDIAL PARTY (Owner or Remedial Party)

for the Site named in the Site Details Section of this form.

Signature of Owner, Remedial Party, or Designated Representative Rendering Certification

9/24/19
Date

IC/EC CERTIFICATIONS

Box 7

Professional Engineer Signature

I certify that all information in Boxes 4 and 5 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I Michelle Lapin at 440 Park Ave South, NY, NY 10016.
print name print business address

am certifying as a Professional Engineer for the Owner
(Owner or Remedial Party)

Signature of Professional Engineer, for the Owner or Remedial Party, Rendering Certification

Stamp (Required for PE)

9.27.19
Date