



TOWN OF CHEVERLY, MARYLAND
MAYOR AND TOWN COUNCIL

TOWN MEETING
Thursday, August 8, 2019

AGENDA

1. Call to Order
2. Pledge of Allegiance
3. Swearing in of New Town Administrator
4. Approval of Agenda
5. Approval of Minutes (July 11, 2019)
6. Resident Input
7. Town Administrator Report
8. Acting Chief of Police Report
9. Committee Reports
 - a. Recreation Council
 - b. Green Infrastructure Committee
 - c. Cheverly Day Committee
 - d. Planning Board
10. Chief of Police Selection Process
11. Joseph Smith and Sons Application for Air Quality Permit to Construct
12. Approval of 2018-2019 Bridgett Mock & Associates Audit
13. Second Reader of Administrative Policy Re: Flags
14. Council Announcements
15. Adjournment

Next Meetings of the Mayor and Town Council

September 12, 2019	Town Meeting	8:00 pm
September 26, 2019	Worksession	7:30 pm

Town of Cheverly
Meeting Minutes
July 11, 2019

Call to order

Meeting called to order at 8:00 pm In the Cheverly Community Center.

In attendance: Mayor Riaz, Council Members Radloff, Watson, Bryner, Munyeneh, Fry.
Staff: Acting Police Chief Towers, Director of Public Works Mr. Brayman

Pledge of Allegiance

Agenda/Approval/Changes

#9 Mayor's Award postponed

#13 Reading of Administrative Policy for Flag

Resident Input moved to earlier in the evening to accommodate people who may not be able to stay for the entire meeting because of other obligations or small children.

Motion to Approve Agenda CM Bryner, seconded by CM Watson. Approved Unanimously.

Resident Input

Joe Rooney, Ward 6: Expressed gratitude to Acting Chief Towers and CM Fry in dealing with 6303 Joslyn Place issue. Expressed support for Acting Chief Towers to become our permanent Chief of Police. Is concerned about Airbnb county legislation that is to go into effect in October

Lucas Winston: Carlye Street sidewalk in need of repair. Doesn't like Pepco butchering trees but don't want to see the trees topple either. The Cheverly Police Department is very professional, and he commends the Acting Chief and recommended he be made permanent Chief.

Katie Zafft, PCAB: Monthly meeting every Tuesday at 7:00pm. There is an Ice Cream Social Tuesday and Thursday of next week. We're looking for new Board Members. There is a Nomination Process. PCAB would also like to offer input into the hiring of the Chief.

Motion to Approve Minutes CM Fry, seconded by CM Bryner. Approved Unanimously.

Mayor Smith and Sons (recycling operation) applied for an Air Quality permit. We cannot move forward to approve the Air Quality permit because of the concerns with their wet operations. The two issues are connected. I have been in contact with the Maryland Dept. of the Environment; Smith and Sons does have a history of discharge that exceeds the levels that you would want to have for certain materials. The Air Quality aspect will close on July 22. We will disapprove. We will continue to pursue the water quality aspect.

We are moving forward with the small unit Air Monitoring program with the University of Maryland. Karen Moe with the Green Infrastructure Committee has stepped up into a leadership role with this and we thank her very much for that.

Acting Chief Towers presented the Town Administrator Report

- FY20 Budget now online
- Hospital Annexation: The Town is waiting on a survey proposal.
- Short Term Rentals: The county's ordinance goes into effect October 1, 2019. Please call us if you see any listings online or have any concerns.
- Woodworth Park Trail: bench burnt by arson and a resident built a replacement bench. The replacement bench was been stolen. The Town is considering a concrete bench.
- DeRanch: Special Entertainment License application is not currently on Liquor Board agenda.
- Yard Sign Placement: signs have to be behind the sidewalk or at least 8 ft from the curb.
- July 16 is the Deadline for Police Chief application

Mayor as for the dog park, the State Highway Administration is looking at the land as buildable instead of for public use which will affect the appraisal value. We're asking them to take another look. We're getting six additional pet waste stations, at no cost to us. Looking for input from residents.

Acting Town Administrator Code Compliance is now a part of Town Administration. The police will continue to enforce any active nuisance. If it's not active, call Code Compliance and leave a message.

Mayor Walden Sierra is an addiction recovery facility and they are looking at a location in Cheverly. We need more information. We are concerned because they wanted to move rapidly and we don't do that without a community process.

Acting Chief Towers Storm Safety Issue: If a storm is coming be prepared. Don't approach downed power lines, the same with flooded roads. Don't drive through standing water. No administrative staff on nights and weekends. Notify the Police Department if there is an issue that needs immediate attention with trees down, snow removal, etc., and they will contact Public Works.

Director of Public Works

- Prepare for storms ahead of time and shelter in place
- Contact Pepco when power goes out even if it's just the streetlights
- The new pavilion is not open for use (quality and structure concerns)
- Working with Green Infrastructure to implement Best Practices
- Pepco Vegetation Management program: list of replacement trees and opportunities for public discourse. If you receive a door hanger from Pepco, please contact them. If you have questions, please contact Public Works.
- Caryle St., we will look at the asphalt concerns
- Multi-Use Courts: any interest in purchasing Pickle Ball nets. Develop guidelines for court use
- Mulch: for \$25 we will deliver 1 scoop or 2. You can pick-up as much as you like for free

Acting Chief of Police Report

- Crime is down 25% from Jan 1 – July 1, compared to this time last year. Majority of crime on Friday and Saturday nights between 4 – 6 pm
- Pedestrian Safety: reached out to County Council Member Ivey regarding Landover Road. Meeting scheduled for later this month for fencing to keep people from crossing the median
- Bowie Baysox: we took kids from Spellman for a game
- June 14 was Community Movie Night, it was a big success, approximately 200 people

- Ice Cream Socials, teaming up with PCAB (replacing Street Meets) pulling out Community Service Trailer that has video games for kids and will give a PowerPoint presentation on crime in your ward and tips for preventing crime. There's a flyer on Facebook with the schedule.
- CodeRed: looks like we have about 175 subscribers. Please get people signed up. People can come by the Police Department anytime but we have designated Tuesdays and Thursdays 5-7pm and someone will get them signed up
- Kickball is every Wednesday night at 6:30 until the kids go back to school for now
- Police Chief's Association of PG County has an Award Ceremony every June to nominate an Officer of the Year, Detective of the Year and Civilian of the Year. Officer Bilo was named Officer of the Year and Mr. Harvey was named Civilian of the Year.
- Behind the Badge series: we sent four officers to bike school to be certified
- July 15 at midnight is the deadline for applications for the Lieutenant, Sergeant and two Master Corporal positions
- Child Abuse and Neglect training for the entire department is on July 24
- Officers Keene and Ford swearing in tonight

CM Fry asked if the Chief had any info about what happened on the Cheverly platform at the Metro

Acting Chief I was not notified about that incident until moments before this meeting and the way our MOU (Mutual Aid) Agreement works is that Metro Police are responsible for anything on the platform. Anything that happens once you're off the escalator and in the parking lot is our responsibility. I put a call into their Deputy Chief to find out what happened, but I haven't heard back. I will get something out as soon as I hear back.

Committee Reports

Green Infrastructure Committee: Shelia Salo reported that the Cheverly Green Infrastructure plan adopted by the Town Council in 2011; it aims to expand, enhance, restore Cheverly's natural environments as intact and healthy ecosystems. What does the Green Infrastructure Committee do: tasked with implementing the plan in collaboration with town government, community organizations, businesses, institutions and citizens. Members serve on the Air Quality Monitoring Advisory Group, took part in planning the Pet Waste Management program organized by Sustainable Maryland Certified, Tree Canopy workshop and walk the town with Pepco to advise on their Vegetation Management plans for public property.

Also, work on initiatives such as the food forest in Kilmer Park, adding native shrubs to the Town Hall plantings and promoting the Maryland Bay Wise Program to help you make your yards more environmentally friendly.

Water Woes Workshop in November will bring together information on water and what you can do to handle water in ecological affective ways. We'll have the Chesapeake Bay Trust on hand to guide you through your county rain barrel rebate applications. We'll even have some rain barrels for sale. We need folks for all of these activities, just come by the first Monday of the month at 7:30 pm at Town Hall or write to me at Shelia.Salo@gmail.com. Check out the website at www.greencheverly.org.

Planning Board: The Mayor reported that they met and talked about the zoning rewrite mapping process and how the Town might be able to move some properties to higher uses for the future.

Jack Wheat Award

The Mayor presented the Jack Wheat Award to employee Antoine Harvey for his exemplary service.

Mayor asked for the approval of a Resolution regarding Local Government Insurance Trust Health Cooperative. This presents a potential cost savings to the town and no reduction in coverage for employees. We need the approval so we can get this information off and complete our obligations regarding the paperwork.

Motion to Approve Local Government Insurance Trust Health Cooperative CM Munyeneh, seconded by CM Bryner. Approved Unanimously.

Mayor approval of Employment Agreement for new Town Administrator, Dylan O. Galloway. He was born and raised in Rockingham county NC. He received a BA in Business Management with a concentration in Hospitality and Tourism from North Carolina Central University and has a dual master's degree in Business Administration and Public Administration from Appalachian State University. Dylan was an intern at the White House under the Obama administration. He is a proud member of Omega Psi Phi. He will begin July 29 and there will be a transition process. Mr. Deutsch is handling our Chief search and will be carrying through that process.

Motion to Approve Employment Agreement CM Bryner, seconded by CM Munyeneh. Approved Unanimously.

Mayor item #13, move from Approval to a reading of the Administrative Policy regarding flags. We don't have anything that governs or even guides us in how we display a flag. We reached out to our Town Attorney, several of us submitted different flag policies that we have seen. We would like to receive community input. We'll revisit this for a second read in August.

Mayor we've been working to reconstitute our Ethics Commission. It would be nice to have an odd number, just in case. Each ward appoints someone to serve on the Commission, and that person is not beholden to that ward. They are here to serve the community and review our financial documents, to avail ourselves if we have questions and the community to step forward with questions and concerns, they can also work closely with the town attorney. I would like to put forth a seventh member, Ms. Sandra Nugent. She has a great background in setting up Ethics Commissions and looking at compliance and best practices.

Motion to Approve Ms. Sandra Nugent CM Fry, seconded by CM Radloff. Approved Unanimously

Council Announcements

CM Munyeneh – 4th Ward Civic Association meets every third Monday in the conference room at 7 pm. We will be having elections in our upcoming meeting. If you are interested in running, please contact Leila Pryce at leilapryce@verizon.net. It's an open meeting so everyone can come.

CM Fry – Welcome to all the new people coming on board. A big shout out to Mr. Brayman, we had an incident after one of the community markets, I texted him and he had resolved the issue within an hour. Chief Towers, thank you for your response to the Airbnb rental on Joslyn Place. Thank you for your response to the storm and keeping our neighborhood safe. Our Cheverly 10U baseball won their league also, Prince George's Allstar league 8U and I believe they got second place in State, awesome job for them. Cheverly Boys and Girls Club, soccer registration is open. Evaluations are on the are on 27th and 3rd for 4-12 year olds. There is more information at Cheverlybgc.org.

CM Bryner – echoing CM Fry thanks for response to the storm. Thank you to Ward 3 residents who have provided input on our various hiring processes. Last month, we were at Maryland Municipal League conference in Ocean City, it was a great experience. We share a lot of commonality with our neighbors in Prince George's County and around Maryland. We have a really great team up here and on staff.

CM Radloff – Start by commending Katie Zafft and PCAB for organizing the Ice Cream Socials. CodeRed, can't emphasize enough the importance. Simple process to sign up, you can contact me and I can help you sign up. Thank you to The Town for the quick storm response. LGBTQ Aging in Motion event at The Old Parish House in College Park, we had a great turn out, well over 50 people attended.

Mayor - made positive remarks about Town staff and thanked them and Council for their commitment to The Town. The Mayor mentioned up coming issues requiring the Council's focus:

- Pepco's Vegetative Plan
- MD 202 Pedestrian Safety
- Town Park Master Plan
- Smith and Sons permit issues
- Town email system
- MML Convention follow-up
- Social Media for the Town

An Action Item for us to discuss at the next Town Meeting on August 8 is Rain Barrels. The Water Woes Workshop would like to have rain barrels available for residents. We will be reimbursed for all but \$7 of the cost of each rain barrel. Why do we want them and are we willing to subsidize?

Items for the July Worksession for Council; a Calendar Projection heading into February or March.

Motion to Excuse CM Garcia CM Bryner, seconded by CM Fry. Approved Unanimously

Motion to Adjourn CM Munyeneh, seconded by CM Bryner. Approved Unanimously

Adjourned 9:55 pm



Memo

To: Town Administrator, Mayor and Council
From: Jarod Towers, Acting Chief of Police #1682
Date: Tuesday, August 06, 2019
Re: Monthly Chief's Report July 2019

Crime/Enforcement Report:

1. For July 2019, there were 13 reported crimes:
 - a. 9 thefts (3 thefts from auto, 3 shoplifting thefts, 2 thefts of personal property, and 1 theft involving fraud), and 4 auto thefts.
2. There was a total of 23 arrests,
 - a. 22 adult arrests:
 - i. 3 for thefts, 4 for narcotic related offenses, 11 for warrants, and 4 for DUI/DWI.
 - b. 1 juvenile arrest:
 - i. 1 for handgun possession

The department responded to 215 calls for service, completed 123 house and 9 elder watch checks, and wrote 37 police and 4 accident/collision reports.

The department made 204 traffic stops, issued 139 traffic citations, 196 warnings, 15 safety equipment repair orders, and 2 parking citation.

Community Outreach:

The department's Ice Cream Social's, cohosted with the Cheverly PCAB, have proven to be a huge success. Residents have been meeting neighbors, officers have been meeting residents, and we've all been eating ice cream. We wish to meet with you, hear your concerns, discuss crime trends, and offer crime prevention techniques. Come on out, bring the kids. They can play video games and enjoy a tasty treat while parents signup for home security checks, chat with neighbors, and get to know our officers! August events are scheduled as follows:

Aug. 8th – Intersection Forest Rd., Valley Way, & Greenleaf Rd.

Aug. 15th – Gast Park (Cheese Park), Parkway & Inwood St.

Aug. 22nd – Cheverly-Euclid Park (Castle Park), Euclid St. & Crest Ave.

The department is currently in the planning stage for this year's Public Safety Night. Mark your calendars, this year's event will be Thursday, September 19th, from 5:30 PM to 9 PM. There will be lots of games, entertainment, demonstrations, and free dinner!

The department has sponsored a Bystander Empowerment and Self-Defense class presented by the Cheverly Police Chief's Advisory Board (PCAB). The class will be held on Wednesday, August 21st, from 6:30 PM to 9:30 PM in the community center gym. Residents may sign-up by going to the police department's website and clicking "Bystander Empowerment & Self-Defense Signup." All are encouraged to attend and we look forward to seeing you there!

Kickball continues in August and all teens (12-19) are welcome to play. Games are Wednesday evenings at 6:30pm at Town Park.

Coffee with the Chief is scheduled for Monday, August 19th, from 4:00 PM to 6:00 PM and Wednesday, August 21st, from 7:00 AM to 9:00 AM.

Administrative Report:

There was one use of force report for the month of July, related to the possession of an illegal firearm.

There was one complaint filed.

The department has begun interviewing applicants for the open clerk's position and will begin processing applicants for all other positions in the coming weeks.

In August the department will be conducting Use of Force training, Firearms training, and De-Escalation training. Additionally, the department is preparing to conduct active shooter training at Gladys Noon Spellman Elementary, in conjunction with school staff and prior to students returning.

2019**CHEVERLY POLICE DEPARTMENT STATISTICS****CRIME STATS**

	YEAR TOTAL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
ARSON	0	0	0	0	0	0	0	0					
ASSAULT	18	1	1	4	5	3	4	0					
AUTO THEFT	9	0	0	2	0	2	1	4					
BURGLARY (B&E)	9	2	0	1	0	3	3	0					
CAR-JACKING	0	0	0	0	0	0	0	0					
HOMICIDE	0	0	0	0	0	0	0	0					
KIDNAPPING	0	0	0	0	0	0	0	0					
ROBBERY	10	0	3	1	3	1	2	0					
SEX OFFENSE	1	0	1	0	0	0	0	0					
THEFT (Includes Fraud)	59	10	7	7	9	9	8	9					
VANDALISM	8	0	1	2	0	3	2	0					
	114	13	13	17	17	21	20	13	0	0	0	0	0
IDENTITY THEFT	2	0	0	1	0	1	0	0					
Use of Force Incident	11	1	2	2	2	1	2	1					

Adult - ARRESTS	161	23	26	22	27	19	22	22					
Juvenile - ARRESTS	6	0	0	0	2	3	0	1					
WARRANTS	52	10	5	8	10	5	3	11					
(Criminal/Civil) CITATIONS	35	7	3	4	7	5	5	4					
DUI / DWI	19	2	5	2	2	3	1	4					
EPS	4	0	1	1	1	1	0	0					
(Field Observation Report) FOR	30	8	8	5	6	0	2	1					
STATE TRAFFIC CITATIONS	836	177	176	122	83	73	66	139					
WARNINGS	1432	193	215	184	265	189	190	196					
SERO (Equip Repair Order)	153	39	36	15	18	19	16	15					
TOWN PARKING TICKETS	90	9	43	21	12	1	2	2					
HOUSE CHECKS	697	42	55	156	107	138	76	123					
ELDER WATCH CHECKS	50	10	4	0	10	11	6	9					
REPORTS WRITTEN	322	48	35	48	55	45	54	37					

Cheverly Police Department
CALLS FOR SERVICE TOTALS

7/1/2019

To

7/31/2019

Incident Type	Total
911 DISCONNECT	28
ACCIDENT	12
ADDED INFORMATION	1
ANIMAL COMPLAINT	1
ARMED PERSON	1
ASSAULT COMBINED	1
ASSIST FIRE EMS	1
ATT SUICIDE COMBINED	1
BREAK IN IN PROGRESS	2
BREAK IN REPORT	2
CDS COMPLAINT	1
CHECK WELFARE	3
CHECK WELFARE COMBINED	8
DEPT ACCIDENT PD	1
DISORDERLY	11
DOMESTIC	7
DWI DRIVER	1
FAMILY DISPUTE	3
FIGHT	1
FOUND	3
FRAUD	3
GUNSHOTS	1
HIGHWAY ACCIDENT COMBINED	2
HIT AND RUN	5
LOCK OUT	1
LOST PROPERTY	3
LOUD MUSIC COMPLAINT	3
MISC CALLS	2
MISC POLICE INCIDENT	7
NOISE COMPLAINT	1
NOTIFICATION	1
OVERDOSE	1
OVERDOSE BLS COMBINED	1
OVERDOSE COMBINED	1
PARTY COMPLAINT	1

PREMISE CHECK	5
PROPERTY ALARM COMMERCIAL	4
RESIDENTIAL ALARM	8
SHOPLIFTING	1
STOLEN VEH	8
SUBJECT STOP	4
SUSPICIOUS AUTO	2
SUSPICIOUS OCC AUTO	7
SUSPICIOUS PERSON	5
THEFT FROM AUTO	3
THEFT J O	3
THEFT REPORT	7
TRAFFIC COMPLAINT	12
TRESPASSING COMPL	1
UNKNOWN TROUBLE	17
VANDALISM	1
VEHICLE ACCIDENT COMBINED	4
WIRES DOWN COMBINED	1
Total Calls -->	215

CHEVERLY POLICE DEPARTMENT
Case Reports Written

7/1/2019

To

8/1/2019

Date	Time	Report No.	Subject	Disposition	Workflow Stage	ID
BILO, NICHOLAS # 1701						
07/04/2019	20:48	19-0035152-002	Search Warrant (Meth)	Arrest	Work-Complete	1701
07/24/2019	05:23	19-0043195-001	STOLEN VEH	Not a Crime/Other Service	Work-Complete	1701
Total for # 1701 >>						2
FORD, DELANTE F # 1708						
07/07/2019	20:25	19-0039771-001	Theft/ Crim Cite	Criminal Citation / Summons	Work-Complete	1708
07/10/2019	17:03	19-0040364-001	Lost Wallet	Not a Crime/Other Service	Work-Complete	1708
07/12/2019	20:21	19-0040809-001	THEFT FROM AUTO	Active	Work-Complete	1708
07/16/2019	02:30	19-0041456-001	Handgun/ CDS Arrest	Arrest	Work-Complete	1708
07/19/2019	18:28	19-0042266-001	Theft	Active	Work-Complete	1708
07/20/2019	04:18	19-0042373-001	DUI	Arrest	Work-Complete	1708
07/23/2019	19:54	19-0043107-001	Theft Report	Active	Work-Complete	1708
07/25/2019	00:53	19-0043415-001	CDS Arrest (Pills)	Arrest	Work-Complete	1708
Total for # 1708 >>						8
GENNA, KEVIN # 1704						
07/05/2019	19:16	19-0039379-001	Theft under \$100 (Stevenson)	Criminal Citation / Summons	Work-Complete	1704
07/11/2019	00:35	19-0040442-001	T - Traffic Stop	Not a Crime/Other Service	Supervisor	1704
07/13/2019	23:56	19-0041039-001	CDS Arrest (PCP & Cocaine)	Arrest	Work-Complete	1704
07/14/2019	22:35	19-0041217-002	Stolen Vehicle	Active	Officer	1704
07/14/2019	22:35	19-0041217-001	Stolen Vehicle	Active	Work-Complete	1704
07/15/2019	17:36	19-0041356-001	FRAUD	Active	Work-Complete	1704
07/19/2019	21:55	19-0042314-001	ASSIST FIRE EMS	Not a Crime/Other Service	Work-Complete	1704
07/20/2019	00:34	19-0042351-001	CDS Arrest (Marijuana)	Arrest	Work-Complete	1704
07/24/2019	02:14	19-0043184-001	DUI/ DWI Arrest	Arrest	Work-Complete	1704
07/29/2019	00:36	19-0044204-001	Handcuff and Release	Not a Crime/Other Service	Work-Complete	1704
07/29/2019	01:57	19-0044222-001	DUI/ DWI Arrest	Arrest	Work-Complete	1704
07/30/2019	01:10	19-0044443-001	CDS Arrest (Marijuana)	Arrest	Work-Complete	1704
07/30/2019	05:06	19-0044462-001	Recovered Stolen Vehicle	Not a Crime/Other Service	Supervisor	1704
Total for # 1704 >>						13
KEENE, JONATHAN M # 1713						
07/17/2019	04:24	19-0041841-001	Unathorized use of vehicle	Active	Work-Complete	1713
07/22/2019	02:39	19-0042689-001	DWI DRIVER	Arrest	Work-Complete	1713
07/22/2019	21:09	19-0042880-001	FRAUD	Active	Work-Complete	1713
Total for # 1713 >>						3
KVECH, ANDREW # 1694						
07/05/2019	18:05	19-0039357-002	Dumping	Criminal Citation / Summons	Work-Complete	1694
07/05/2019	18:05	19-0039357-001	Dumping	Criminal Citation / Summons	Work-Complete	1694
Total for # 1694 >>						2
SOARES, MORGAN M # 1705						
07/02/2019	18:15	19-0038783-001	BREAK IN REPORT	Not a Crime/Other Service	Work-Complete	1705
Total for # 1705 >>						1
WEBB, FRANCIS # 1674						
07/01/2019	13:26	19-0038483-001	THEFT REPORT	Active	Work-Complete	1674

07/04/2019	16:10	19-0039187-001	Returned missing	Not a Crime/Other Service	Work-Complete	1674
07/19/2019	17:18	19-0042251-001	LOST PROPERTY	Not a Crime/Other Service	Work-Complete	3209
07/23/2019	08:04	19-0042983-001	Death Report	Not a Crime/Other Service	Work-Complete	1674
07/27/2019	09:54	19-0043915-001	THEFT REPORT	Active	Work-Complete	1674
07/27/2019	12:44	19-0043938-001	FOUND	Not a Crime/Other Service	Work-Complete	1674
07/27/2019	14:49	19-0043915-002	Misc Police Service	Not a Crime/Other Service	Work-Complete	1674
07/29/2019	10:49	19-0044302-001	Misc Police Service	Not a Crime/Other Service	Supervisor	1674
Total for # 1674 >>						8
Total Reports >>						37



ALS Environmental



301 Fulfilling Mill Road - Middletown, PA 17057 - Phone: 717-944-5541 - Fax: 717-944-1430 - www.alsglobal.com

NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: PJLA 74618
State Certifications: FL E871113 , WA C999 , MD 128 , VA 460157 , WV DW 9961-C , WV 343

May 16, 2019

Mr. Gregory Hazzard
MDE-Central Division
91 Eastern Blvd
Hagerstown, MD 21740

Certificate of Analysis

Project Name:	Joseph Smith & Sons-Capitol Heights MD	Workorder:	3028850
Purchase Order:	U00P6400021	Workorder ID:	Joseph Smith & Sons

Dear Mr. Hazzard:

Enclosed are the analytical results for samples received by the laboratory on Wednesday, April 17, 2019.

The ALS Environmental laboratory in Middletown, Pennsylvania is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

If you have any questions regarding this certificate of analysis, please contact Mrs. Vanessa N Badman (Project Coordinator) at (717) 944-5541.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state requirements. The test results meet requirements of the current NELAP standards or state requirements, where applicable. For a specific list of accredited analytes, refer to the certifications section of the ALS website at www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads.

This laboratory report may not be reproduced, except in full, without the written approval of ALS Environmental.

ALS Spring City: 10 Riverside Drive, Spring City, PA 19475 610-948-4903

CC: Ms. Sharon Talley , Ms. Kathy Mohan , Mr. Scott Boylan

This page is included as part of the Analytical Report and must be retained as a permanent record thereof.

Vanessa N. Badman

Mrs. Vanessa N Badman
Project Coordinator

ALS Environmental Laboratory Locations Across North America

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Vancouver Waterloo • Winnipeg • Yellowknife United States: Cincinnati • Everett • Fort Collins • Holland • Houston • Middletown • Salt Lake City • Spring City • York Mexico: Monterrey

SAMPLE SUMMARY

Workorder: 3028850 Joseph Smith & Sons

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
3028850001	White Goods Pond	Water	4/17/2019 10:21	4/17/2019 17:06	Collected by Client
3028850002	Outfall 003	Water	4/17/2019 10:43	4/17/2019 17:06	Collected by Client
3028850003	Electrical Shed	Water	4/17/2019 10:58	4/17/2019 17:06	Collected by Client

ALS Environmental Laboratory Locations Across North America

Canada: Burlington • Calgary • Centre of Excellence • Edmonton • Fort McMurray • Fort St. John • Grande Prairie • London • Mississauga • Richmond Hill • Saskatoon • Thunder Bay
Vancouver Waterloo • Winnipeg • Yellowknife United States: Cincinnati • Everett • Fort Collins • Holland • Houston • Middletown • Salt Lake City • Spring City • York Mexico: Monterrey

SAMPLE SUMMARY

Workorder: 3028850 Joseph Smith & Sons

Notes

- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
- The Chain of Custody document is included as part of this report.
- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.
- Parameters identified as "analyze immediately" require analysis within 15 minutes of collection. Any "analyze immediately" parameters not listed under the header "Field Parameters" are performed in the laboratory and are therefore analyzed out of hold time.
- Method references listed on this report beginning with the prefix "S" followed by a method number (such as S2310B-97) refer to methods from "Standard Methods for the Examination of Water and Wastewater".
- For microbiological analyses, the "Prepared" value is the date/time into the incubator and the "Analyzed" value is the date/time out the incubator.
- An Analysis-Prep Method Cross Reference Table is included after Analytical Results & Qualifiers section in this report.

Standard Acronyms/Flags

J	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND)
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Reporting Detection Limit
ND	Not Detected - indicates that the analyte was Not Detected at the RDL
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference
LOD	DoD Limit of Detection
LOQ	DoD Limit of Quantitation
DL	DoD Detection Limit
I	Indicates reported value is greater than or equal to the Method Detection Limit (MDL) but less than the Report Detection Limit (RDL)
(S)	Surrogate Compound
NC	Not Calculated
*	Result outside of QC limits

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State Certifications: FL E871113 , WA C999 , MD 128 , VA 460157 , WV DW 9961-C , WV 343

PROJECT SUMMARY

Workorder: 3028850 Joseph Smith & Sons

Workorder Comments

Please see attached subcontracting from Cape Fear. VNB 4/23/19

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ANALYTICAL RESULTS

Workorder: 3028850 Joseph Smith & Sons

Lab ID: 3028850001

Date Collected: 4/17/2019 10:21

Matrix: Water

Sample ID: White Goods Pond

Date Received: 4/17/2019 17:06

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
WET CHEMISTRY										
Chemical Oxygen Demand (COD)	548		mg/L	15	EPA 410.4			4/27/19 17:16	AK	D
Oil/Grease Hexane Extractable	5.9		mg/L	2.4	EPA 1664B			4/26/19 14:00	ELS	C
Oil/Grease Silica Gel Treated	ND		mg/L	2.4	EPA 1664B			4/26/19 14:00	ELS	C
METALS										
Aluminum, Total	3.5		mg/L	0.050	EPA 200.7	4/27/19 10:50	AHI	5/1/19 18:24	MNP	B1
Copper, Total	1.5		mg/L	0.0050	EPA 200.7	4/27/19 10:50	AHI	5/1/19 18:24	MNP	B1
Iron, Total	10.4		mg/L	0.030	EPA 200.7	4/27/19 10:50	AHI	5/1/19 18:24	MNP	B1
Zinc, Total	2.5		mg/L	0.010	EPA 200.7	4/27/19 10:50	AHI	5/1/19 18:24	MNP	B1
SUBCONTRACTED ANALYSIS										
Subcontracted Analysis	See attached.				Subcontract			4/17/19 10:21	SUB	E

Vanessa N. Badman
Mrs. Vanessa N Badman
Project Coordinator

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ANALYTICAL RESULTS

Workorder: 3028850 Joseph Smith & Sons

Lab ID: 3028850002

Date Collected: 4/17/2019 10:43

Matrix: Water

Sample ID: Outfall 003

Date Received: 4/17/2019 17:06

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
WET CHEMISTRY										
Chemical Oxygen Demand (COD)	220		mg/L	15	EPA 410.4			4/27/19 17:16	AK	D
Oil/Grease Hexane Extractable	5.5		mg/L	2.4	EPA 1664B			4/26/19 14:00	ELS	C
Oil/Grease Silica Gel Treated	ND		mg/L	2.4	EPA 1664B			4/26/19 14:00	ELS	C
METALS										
Aluminum, Total	113		mg/L	0.050	EPA 200.7	4/27/19 10:50	AHI	5/1/19 18:28	MNP	B1
Copper, Total	15.1		mg/L	0.0050	EPA 200.7	4/27/19 10:50	AHI	5/1/19 18:28	MNP	B1
Iron, Total	16.9		mg/L	0.030	EPA 200.7	4/27/19 10:50	AHI	5/1/19 18:28	MNP	B1
Zinc, Total	5.9		mg/L	0.010	EPA 200.7	4/27/19 10:50	AHI	5/1/19 18:28	MNP	B1
SUBCONTRACTED ANALYSIS										
Subcontracted Analysis	See attached.				Subcontract			4/17/19 10:43	SUB	E

Vanessa N. Badman
Mrs. Vanessa N Badman
Project Coordinator

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State Certifications: FL E871113, WA C999, MD 128, VA 460157, WV DW 9961-C, WV 343

ANALYTICAL RESULTS

Workorder: 3028850 Joseph Smith & Sons

Lab ID: **3028850003**

Date Collected: 4/17/2019 10:58

Matrix: Water

Sample ID: **Electrical Shed**

Date Received: 4/17/2019 17:06

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
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SUBCONTRACTED ANALYSIS

Subcontracted Analysis

See
attached.

Subcontract

4/17/19 10:58 SUB A

Vanessa N. Badman

Mrs. Vanessa N Badman

Project Coordinator

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ANALYSIS - PREP METHOD CROSS REFERENCE TABLE

Workorder: 3028850 Joseph Smith & Sons

Lab ID	Sample ID	Analysis Method	Prep Method
3028850001	White Goods Pond	EPA 1664B	
3028850001	White Goods Pond	EPA 200.7	EPA TRMD
3028850001	White Goods Pond	EPA 410.4	
3028850001	White Goods Pond	Subcontract	
3028850002	Outfall 003	EPA 1664B	
3028850002	Outfall 003	EPA 200.7	EPA TRMD
3028850002	Outfall 003	EPA 410.4	
3028850002	Outfall 003	Subcontract	
3028850003	Electrical Shed	Subcontract	

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QUALITY CONTROL DATA

Workorder: 3028850 Joseph Smith & Sons

QC Batch: MDIG/77457

Analysis Method: EPA 200.7

QC Batch Method: EPA TRMD

Associated Lab Samples: 3028850001, 3028850002

METHOD BLANK: 2934609

Parameter	Blank Result	Units	Reporting Limit
Aluminum, Total	ND	mg/L	0.050
Copper, Total	ND	mg/L	0.0050
Iron, Total	ND	mg/L	0.030
Zinc, Total	ND	mg/L	0.010

LABORATORY CONTROL SAMPLE: 2934610

Parameter	LCS % Rec	Units	Spike Conc.	LCS Result	% Rec Limit
Aluminum, Total	109	mg/L	.5	0.55	85 - 115
Copper, Total	100	mg/L	.5	0.50	85 - 115
Iron, Total	103	mg/L	.5	0.51	85 - 115
Zinc, Total	99.2	mg/L	.25	0.25	85 - 115

MATRIX SPIKE: 2934611 DUPLICATE: 2934612 ORIGINAL: 3029181001

***NOTE: The duplicate result shown below is only used for the purpose of comparing with the original result. This result is not used for the purpose of the original result.

Parameter	Original Result	Units	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD
Copper, Total	.065	mg/L	1	1.074	1.099	101	103	70 - 130	2.3	20
Zinc, Total	.0688	mg/L	.5	.564	.5801	99	102	70 - 130	2.81	20

MATRIX SPIKE SAMPLE: 2934613 ORIGINAL: 3028734010

***NOTE: The duplicate result shown below is only used for the purpose of comparing with the original result. This result is not used for the purpose of the original result.

Parameter	Original Result	Units	Spike Conc.	MS Result	MS % Rec	% Rec Limit
Iron, Total	.0407	mg/L	1	1.052	101	70 - 130

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QUALITY CONTROL DATA

Workorder: 3028850 Joseph Smith & Sons

QC Batch: WETC/220839 **Analysis Method:** EPA 1664B

QC Batch Method: EPA 1664B

Associated Lab Samples: 3028850001, 3028850002

METHOD BLANK: 2934191

Parameter	Blank Result	Units	Reporting Limit
Oil/Grease Hexane Extractable	ND	mg/L	2.0
Oil/Grease Silica Gel Treated	ND	mg/L	2.0

LABORATORY CONTROL SAMPLE: 2934192

Parameter	LCS % Rec	Units	Spike Conc.	LCS Result	% Rec Limit
Oil/Grease Hexane Extractable	81	mg/L	40	32.4	78 - 114
Oil/Grease Silica Gel Treated	66.5	mg/L	20	13.3	64 - 132

MATRIX SPIKE SAMPLE: 2934193 ORIGINAL: 3029312001

NOTE: This laboratory result shown below is a raw result and is only valid for the purpose of comparing Matrix Spike percent recovery. This result is not final and cannot be used as such.

Parameter	Original Result	Units	Spike Conc.	MS Result	MS % Rec	% Rec Limit
Oil/Grease Silica Gel Treated	0	mg/L	19.9	13.50278	68	64 - 132

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QUALITY CONTROL DATA

Workorder: 3028850 Joseph Smith & Sons

QC Batch: WETC/220890

Analysis Method: EPA 410.4

QC Batch Method: EPA 410.4

Associated Lab Samples: 3028850001, 3028850002

METHOD BLANK: 2934720

Parameter	Blank Result	Units	Reporting Limit
Chemical Oxygen Demand (COD)	ND	mg/L	15

METHOD BLANK: 2934725

Parameter	Blank Result	Units	Reporting Limit
Chemical Oxygen Demand (COD)	ND	mg/L	15

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: 3028850 Joseph Smith & Sons

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
3028850001	White Goods Pond			EPA 1664B	WETC/220839
3028850002	Outfall 003			EPA 1664B	WETC/220839
3028850001	White Goods Pond	EPA TRMD	MDIG/77457	EPA 200.7	META/67355
3028850002	Outfall 003	EPA TRMD	MDIG/77457	EPA 200.7	META/67355
3028850001	White Goods Pond			EPA 410.4	WETC/220890
3028850002	Outfall 003			EPA 410.4	WETC/220890

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Environmetal

CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT /
SAMPLER. INSTRUCTIONS ON THE BACK.

1 of 1



Client Name: MDE-Western		Container Type	P	G	P	G	Cooler Temp: <u>40</u> Therm ID: <u>40</u>	
Address:		Container Size	1L	1L	1L	1L	No. of Coolers: <u>Y</u> <u>N</u> Initial	
Contact: Scott Boylan 301.876.5712, Greg Hazzard 443.677.9155		Preservative	HNO3	H2SO4	H2SO4	0-6 C	Custody Seals Present? <u>Y</u> <u>N</u>	
Phone#:		ANALYSES/METHOD REQUESTED						
Project Name#:		Total metals		Total petroleum hydrocarbons TPH		Chemical oxygen demand	Custody Seals Present? <u>Y</u> <u>N</u>	
Bill To:		PCB method 1631		PCB method 1631		Received on Ice? <u>Y</u> <u>N</u>		
TAT		Total metals		Total petroleum hydrocarbons TPH		Chemical oxygen demand	COC Labels Complete/Accurate? <u>Y</u> <u>N</u>	
Date Required:		Total metals		Total petroleum hydrocarbons TPH		Chemical oxygen demand	Cont. in Good Cond.? <u>Y</u> <u>N</u>	
Email? <u>X</u> <u>Y</u> gregory.hazzard@maryland.gov		Total metals		Total petroleum hydrocarbons TPH		Chemical oxygen demand	Correct Containers? <u>Y</u> <u>N</u>	
Fax? <u>X</u> <u>Y</u> No.:		Total metals		Total petroleum hydrocarbons TPH		Chemical oxygen demand	Correct Sample Volumes? <u>Y</u> <u>N</u>	
Sample Description/Location		Total metals		Total petroleum hydrocarbons TPH		Chemical oxygen demand	Correct Preservation? <u>Y</u> <u>N</u>	
(as it will appear on the lab report)		Total metals		Total petroleum hydrocarbons TPH		Chemical oxygen demand	Headspace/Volatiles? <u>Y</u> <u>N</u>	
Sample Date	Time	Enter Number of Containers Per Sample or Field Results Below.						
White Goods Pond	4/17/2019	1	1	1	1	1	Sample/COC Comments	
Outfall 003	4/17/2019	1	1	1	1	1		
Electrical Shed	4/17/2019	1	1	1	1	1		
4								
5								
6								
7								
8								
9								
10								
Project Comments:		LOGGED BY (signature):		REVIEWED BY (signature):		ALS Field Services: <u> </u> Pickup <u> </u> Labor <u> </u> <u> </u> Composite Sampling <u> </u> Rental Equipment <u> </u> <u> </u> Other: <u> </u>		
Relinquished By / Company Name	Date	Time	Received By / Company Name	Date	Time	Special Processing		
1 <u>Bill Boylan / MDE</u>	4/17/19	13:07	<u>ALS - Bill Boylan</u>	4/17/19	13:40	Standard <u> </u> CLP-like <u> </u> USACE <u> </u>		
3 <u>ALS - Bill Boylan</u>	4/17/19	17:06	<u> </u>	4/17/19	17:06	Deliverables <u> </u> USACE <u> </u> Navy <u> </u> NY <u> </u> NJ <u> </u> PA <u> </u> NC <u> </u>		
5						Reportable to PADEP? <u> </u> Yes <u> </u> No <u> </u>		
7						Sample Disposal Lab <u> </u> Special <u> </u>		
9						PWSID # <u> </u> EDDS: Format Type <u> </u>		

* G=Grab; C=Composite **Matrix - A=Air; DW=Drinking Water; GW=Groundwater; OL=Oil; OL=Other Liquid; SL=Sludge; SO=Soil; WP=Wipe; WW=Wastewater

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Rev 10/11



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Environmental

CHAIN OF CUSTODY/
REQUEST FOR ANALYSIS

ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT /
SAMPLER. INSTRUCTIONS ON THE BACK.

COC #: 302880
ALS Quote #: 1 of 1

Client Name: MDE-Western		Container Type		P	G	P	G	Receipt Information (completed by Receiving Lab)	
Address:		Container Size		1L	1L	1L	1L	Cooler Temp: <u>0</u> Therm ID: <u>101</u>	
Contact: Scott Boylen 301.876.5712, Greg Hazzard 443.677.9155		Preservative		HNO3	H2SO4	H2SO4	D-6 C	No. of Coolers: <u>Y</u> <u>N</u> Initial	
Phone#:				ANALYSES/METHOD REQUESTED				Custody Seals Present?	
Project Name#:		Joseph Smith & Sons-Capitol Heights, MD		Total petroleum hydrocarbons TPH				(If present) Seals Intact?	
Bill To:				Chemical oxygen demand				Received on Ice?	
TAT <input type="checkbox"/> Normal-Standard TAT is 10-12 business days.				PCB method 1668				COC Labels Complete/Accurate?	
Date Required: <input checked="" type="checkbox"/> Rush-Subject to ALS approval and surcharges.								Cent. in Good Cond.?	
Email? <input checked="" type="checkbox"/> Approved By: <u>gregory.hazzard@maryland.gov</u>								Correct Containers?	
Fax? <input type="checkbox"/> No.:								Correct Sample Volumes?	
Sample Description/Location (see it will appear on the lab report)		Sample Date	Time					Correct Preservation?	
White Goods Pond 10:21 AM	4/17/2019	#####	G	WW	1	1	1	Headspace/Volatiles?	
Outfall 003	4/17/2019	10:43	G	WW	1	1	1	Courier/Tracking #:	
Electrical Shed 10:21 AM	4/17/2019	#####	G	WW				Sample/COC Comments	
4									
5									
6									
7									
8									
9									
10									
Project Comments:		LOGGED BY (signature):		DATE		TIME		ALS Field Services: <u>Composite Sampling</u> <u>Pickup</u> <u>Labor</u> <u>Rental Equipment</u>	
Relinquished By / Company Name		Date	Time	Received By / Company Name		Date	Time	Special Processing	
1 <u>Bill Duke</u> / MDE	4/17/19	13:07	2	<u>Bill Duke</u>		4/17/19	13:40	USACE <input type="checkbox"/> Navy <input type="checkbox"/>	
3 <u>Bill Duke</u>	4/17/19	17:06	4	<u>Bill Duke</u>		4/17/19	17:06	Sample Disposal	
5			6					Lab <input type="checkbox"/> Special <input type="checkbox"/>	
7			8					Reportable to PADEP? Yes <input type="checkbox"/> No <input type="checkbox"/>	
9			10					PWSID # <input type="checkbox"/>	
								EDDS: Formal Type <input type="checkbox"/>	



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F: (717) 944-1430

Condition of Sample Receipt Form

Client: MDE Western Work Order #: 3028850 Initials: CD Date: 4/19/19

- | | | | |
|---|-------------|-----|-----------|
| 1. Were airbills / tracking numbers present and recorded? | <u>NONE</u> | YES | NO |
| Tracking number: _____ | | | |
| 2. Are Custody Seals on shipping containers intact? | <u>NONE</u> | YES | NO |
| 3. Are Custody Seals on sample containers intact? | <u>NONE</u> | YES | NO |
| 4. Is there a COC (Chain-of-Custody) present? | <u>YES</u> | YES | NO |
| 5. Are the COC and bottle labels complete, legible and in agreement? | <u>YES</u> | YES | NO |
| 5a. Does the COC contain sample locations? | <u>YES</u> | YES | NO |
| 5b. Does the COC contain date and time of sample collection for all samples? | <u>YES</u> | YES | NO |
| 5c. Does the COC contain sample collectors name? | <u>YES</u> | YES | NO |
| 5d. Does the COC note the type(s) of preservation for all bottles? | <u>YES</u> | YES | NO |
| 5e. Does the COC note the number of bottles submitted for each sample? | <u>YES</u> | YES | NO |
| 5f. Does the COC note the type of sample, composite or grab? | <u>YES</u> | YES | NO |
| 5g. Does the COC note the matrix of the sample(s)? | <u>YES</u> | YES | NO |
| 6. Are all aqueous samples requiring preservation preserved correctly? | <u>N/A</u> | YES | NO |
| 7. Were all samples placed in the proper containers for the requested analyses, with sufficient volume? | <u>YES</u> | YES | NO |
| 8. Are all samples within holding times for the requested analyses? | <u>YES</u> | YES | NO |
| 9. Were all sample containers received intact and headspace free when required? (not broken, leaking, frozen, etc.) | <u>YES</u> | YES | NO |
| 10. Did we receive trip blanks (applies only for methods EPA 504, EPA 524.2 and 1631E (LL Hg)? | <u>N/A</u> | YES | NO |
| 11. Were the samples received on ice? | <u>YES</u> | YES | NO |
| 12. Were sample temperatures measured at 0.0-6.0°C | <u>YES</u> | YES | NO |
| 13. Are the samples DW matrix ? If YES, fill out Reportable Drinking Water questions below | | YES | <u>NO</u> |
| 13a. Are the samples required for SDWA compliance reporting? | <u>N/A</u> | YES | NO |
| 13b. Did the client provide a SDWA PWS ID#? | <u>N/A</u> | YES | NO |
| 13c. Are all aqueous unpreserved SDWA samples pH 5-9? | <u>N/A</u> | YES | NO |
| 13d. Did the client provide the SDWA sample location ID/Description? | <u>N/A</u> | YES | NO |
| 13e. Did the client provide the SDWA sample type (D, E, R, C, P, S)? | <u>N/A</u> | YES | NO |

Cooler #: _____

Temperature (°C): 0°C

Thermometer ID: TA401

COMMENTS (Required for all NO responses above and any sample non-conformance):

(Duplicate Chain)

Rev. 1/10/2019

May 15, 2019

Ms. Jessica Smith
Analytical Laboratory Services, Inc.
301 Fulling Mill Road
Middletown, Pennsylvania 17057

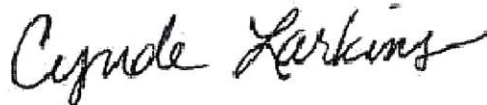
Re: Subcontract DXN and PCB's
Work Order: 14883
SDG: 3028850

Dear Ms. Smith:

Cape Fear Analytical LLC (CFA) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on April 24, 2019. This original data report has been prepared and reviewed in accordance with CFA's standard operating procedures.

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at 910-795-0421 Ext. 2.

Sincerely,



Cyndie Larkins
Project Manager

Enclosures



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CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT /
SAMPLER. INSTRUCTIONS ON THE BACK.

COC #: **CFA NO # 14883**

ALS Quote #: **1 of 1**

Client Name: ALS Environmental		Container Type	CG	Receipt Information (completed by Receiving Lab)	
Address: 34 Dogwood Lane		Container Size	4oz	Cooler Temp: _____	Therm ID: _____
Middletown, PA 17057		Preservative	None	No. of Coolers: _____	Y N Initial
Contact: Vanessa Badman		Custody Seals Present? <input type="checkbox"/>			
Phone#: (717) 944-5541		(if present) Seals Intact? <input type="checkbox"/>			
Project Name#: MD3937-3028850		Received on Ice? <input type="checkbox"/>			
Bill To: ALS Environmental		COC Labels Complete/Accurate? <input type="checkbox"/>			
TAT <input checked="" type="checkbox"/> Normal-Standard TAT is 10-12 business days.		Cont. In Good Cond.? <input type="checkbox"/>			
Rush-Subject to ALS approval and surcharges.		Correct Containers? <input type="checkbox"/>			
Date Required: _____		Correct Sample Volumes? <input type="checkbox"/>			
Approved By: _____		Correct Preservation? <input type="checkbox"/>			
Email? <input type="checkbox"/> -Y Vanessa.Badman@ALSglobal.com		Headspace/Volatiles? <input type="checkbox"/>			
Fax? <input type="checkbox"/> -Y No.:		Courier/Tracking #: _____			
Sample Description/Location (as it will appear on the lab report)		Sample/COC Comments			
Sample Date	Time	Enter Number of Containers Per Sample or Field Results Below.			
1 3028850 001	4/17/19 1021 G WT	1	Subcontract to Cape Fear Env.		
2 3028850 002	4/17/19 1043 G WT	1	Per Client: ADD SUBMITTER TO SAMPLE in order to run test NB 4/23/19		
3 3028850 003	4/17/19 1058 G WT	1			
4					
5					
6					
7					
8					
9					
10					
Project Comments:		ALS Field Services: <input type="checkbox"/> Pickup <input type="checkbox"/> Labor <input type="checkbox"/> Rental Equipment			
		<input type="checkbox"/> Composite Sampling <input type="checkbox"/> Other:			
Relinquished By / Company Name		Data Deliverables		Special Processing	
Date		Time		USACE <input type="checkbox"/>	
4/23/19 1448		2448219 1015		Navy <input type="checkbox"/>	
3		4		NJ <input type="checkbox"/>	
5		6		PA <input type="checkbox"/>	
7		8		NC <input type="checkbox"/>	
9		10		MD <input checked="" type="checkbox"/>	
Reportable to PADEP?		Yes <input type="checkbox"/>		Sample Disposal	
				Lab <input checked="" type="checkbox"/>	
PWSID #				Special <input type="checkbox"/>	
EDDS: Format Type					

* G=Grab; C=Composite **Matrix - AL=Air; DW=Drinking Water; GW=Groundwater; OL=Oil; OL=Other Liquid; SL=Sludge; SO=Soil; WP=Wipe; WW=Wastewater

ALS ENVIRONMENTAL SHIPPING ADDRESS: 34 DOGWOOD LANE, MIDDLETOWN, PA 17057

Rev 8/04

SAMPLE RECEIPT CHECKLIST
Cape Fear Analytical

Client: <u>ALS</u>	Work Order: <u>14883</u>
Shipping Company: <u>FedEx</u>	Date/Time Received: <u>24 APR 19</u> <u>1015</u>

Suspected Hazard Information	Yes	NA	No
Shipped as DOT Hazardous?			<input checked="" type="checkbox"/>
Samples identified as Foreign Soil?			<input checked="" type="checkbox"/>

DOE Site Sample Packages	Yes	NA	No*
Screened <0.5 mR/hr?		<input checked="" type="checkbox"/>	
Samples < 2x background?		<input checked="" type="checkbox"/>	

* Notify RSO of any responses in this column immediately.

Air Sample Receipt Specifics	Yes	NA	No
Air sample in shipment?			<input checked="" type="checkbox"/>

Air Witness: _____

Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (required for Non-Conforming Items)
1 Shipping containers received intact and sealed?	<input checked="" type="checkbox"/>			Circle Applicable: seals broken damaged container leaking container other(describe)
2 Custody seal/s present on cooler?			<input checked="" type="checkbox"/>	Seal intact? Yes No
3 Chain of Custody documents included with shipment?	<input checked="" type="checkbox"/>			
4 Samples requiring cold preservation within 0-6°C?	<input checked="" type="checkbox"/>			Preservation Method: <u>ice bags</u> blue ice dry ice none other (describe) Temperature Blank present: Yes <input checked="" type="checkbox"/> <u>5.4°</u> <u>5.4-0.5=4.9°C</u>
5 Aqueous samples found to have visible solids?	<input checked="" type="checkbox"/>			Sample IDs, containers affected: <u>Minimal (<1%) visible solids</u> <u>* see note below for SX 003</u>
5 Samples requiring chemical preservation at proper pH?		<input checked="" type="checkbox"/>		Sample IDs, containers affected and pH observed: <u>pH=8 on SX 001 and 002</u> <u>see * note for SX 003</u> If preservative added, Lot#:
7 Samples requiring preservation have no residual chlorine?	<input checked="" type="checkbox"/>			Sample IDs, containers affected: If preservative added, Lot#:
8 Samples received within holding time?	<input checked="" type="checkbox"/>			Sample IDs, tests affected:
9 Sample IDs on COC match IDs on containers?	<input checked="" type="checkbox"/>			Sample IDs, containers affected:
10 Date & time of COC match date & time on containers?			<input checked="" type="checkbox"/>	Sample IDs, containers affected: <u>302885003 printed label collection time is 10:43, handwritten label has 10:58.</u>
11 Number of containers received match number indicated on COC?	<input checked="" type="checkbox"/>			List type and number of containers / Sample IDs, containers affected: <u>3 - WM clear glass jars 1L</u>
12 COC form is properly signed in relinquished/received sections?	<input checked="" type="checkbox"/>			

Comments:

* Sample 302885003 has very minimal liquid volume. Note on COC for lab to "add substance to sample" for analysis.

Checklist performed by: Initials: CJ Date: 24 APR 19

CF-UD-F-7

PCB Congeners Analysis

Case Narrative

PCBC Case Narrative
Analytical Laboratory Services, Inc. (ALSI)
SDG 3028850
Work Order 14883

Method/Analysis Information

Product: PCB Congeners by EPA Method 1668A in Liquids
Analytical Method: EPA Method 1668A
Extraction Method: SW846 3520C
Analytical Batch Number: 40573
Clean Up Batch Number: 40571
Extraction Batch Number: 40570

Sample Analysis

The following samples were analyzed using the analytical protocol as established in EPA Method 1668A:

Sample ID	Client ID
12023764	Method Blank (MB)
12023765	Laboratory Control Sample (LCS)
12023766	Laboratory Control Sample Duplicate (LCSD)
14883001	3028850 001
14883002	3028850 002
14883003	3028850 003

The samples in this SDG were analyzed on an "as received" basis.

SOP Reference

Procedure for preparation, analysis and reporting of analytical data are controlled by Cape Fear Analytical LLC (CFA) as Standard Operating Procedure (SOP). The data discussed in this narrative has been analyzed in accordance with CF-OA-E-003 REV# 7.

Raw data reports are processed and reviewed by the analyst using the TargetLynx software package.

Calibration Information

Initial Calibration

All initial calibration requirements have been met for this sample delivery group (SDG).

Continuing Calibration Verification (CCV) Requirements

All associated calibration verification standard(s) (ICV or CCV) met the acceptance criteria.

Quality Control (QC) Information**Certification Statement**

The test results presented in this document are certified to meet all requirements of the 2009 TNI Standard.

Method Blank (MB) Statement

The MB(s) analyzed with this SDG met the acceptance criteria.

Surrogate Recoveries

13C-DeCB-209 did not recover due to matrix interference. This indicates a low bias for DeCB-209. 14883003 (3028850 003).

Laboratory Control Sample (LCS) Recovery

The LCS spike recoveries met the acceptance limits.

Laboratory Control Sample Duplicate (LCSD) Recovery

The LCSD spike recoveries met the acceptance limits.

LCS/LCSD Relative Percent Difference (RPD) Statement

The RPD(s) between the LCS and LCSD met the acceptance limits.

QC Sample Designation

A matrix spike and matrix spike duplicate analysis was not required for this SDG.

Technical Information**Holding Time Specifications**

CFA assigns holding times based on the associated methodology, which assigns the date and time from sample collection. Those holding times expressed in hours are calculated in the AlphaLIMS system. Those holding times expressed as days expire at midnight on the day of expiration. All samples in this SDG met the specified holding time.

Preparation/Analytical Method Verification

The sample was received as mostly solid material. Per client request, the sample was rinsed from the jar and reported as a water sample. Sample amount was determined from the tared jar. The sample was extracted by soxhlet. The final extract would not concentrate to the required final volume, and no higher congeners were present in the analysis. The sample extract was diluted 50x, re-spiked with surrogates and re-analyzed. 14883003 (3028850 003).

Sample Dilutions

Samples 14883001 (3028850 001) and 14883002 (3028850 002) were diluted due to the presence of over-range target analytes.

Miscellaneous Information

Nonconformance (NCR) Documentation

A NCR was not required for this SDG.

Manual Integrations

Manual integrations were required for data files in this SDG. Certain standards and QC samples required manual integrations to correctly position the baseline as set in the calibration standard injections. Where manual integrations were performed, copies of all manual integration peak profiles are included in the raw data section of this fraction.

System Configuration

This analysis was performed on the following instrument configuration:

Instrument ID	Instrument	System Configuration	Column ID	Column Description
HRP875_1	PCB Analysis	PCB Analysis	SPB-Octyl	30m x 0.25mm, 0.25um

Electronic Packaging Comment

This data package was generated using an electronic data processing program referred to as virtual packaging. In an effort to increase quality and efficiency, the laboratory has developed systems to generate all data packages electronically. The following change from traditional packages should be noted: Analyst/peer reviewer initials and dates are not present on the electronic data files. Presently, all initials and dates are present on the original raw data. These hard copies are temporarily stored in the laboratory. An electronic signature page inserted after the case narrative will include the data validator's signature and title. The signature page also includes the data qualifiers used in the fractional package. Data that are not generated electronically, such as hand written pages, will be scanned and inserted into the electronic package.

Sample Data Summary

Cape Fear Analytical, LLC

3306 Kitty Hawk Road Suite 120, Wilmington, NC 28405 - (910) 795-0421 - www.capefearanalytical.com

Qualifier Definition Report for

ALSI001 Analytical Laboratory Services, Inc.

Client SDG: 3028850 CFA Work Order: 14883

The Qualifiers in this report are defined as follows:

- * A quality control analyte recovery is outside of specified acceptance criteria
- ** Analyte is a surrogate compound
- C Congener has coeluters. When Cxxx, refer to congener number xxx for data
- Q Quantitative Interference; value is estimated
- U Analyte was analyzed for, but not detected above the specified detection limit.
- DL Indicates that sample is diluted.
- RA Indicates that sample is re-analyzed without re-extraction.
- RE Indicates that sample is re-extracted.

Review/Validation

Cape Fear Analytical requires all analytical data to be verified by a qualified data reviewer.

The following data validator verified the information presented in this case narrative:

Signature: 

Name: Heather Patterson

Date: 15 MAY 2019

Title: Group Leader

PCB Congeners
Certificate of Analysis
Sample Summary

Page 1 of 8

SDG Number: 3028850
 Lab Sample ID: 14883001
 Client Sample: 1668A Water
 Client ID: 3028850 001
 Batch ID: 40573
 Run Date: 05/13/2019 17:00
 Data File: dl3may19a-5
 Prep Batch: 40570
 Prep Date: 06-MAY-19

Client: ALS001
 Date Collected: 04/17/2019 10:21
 Date Received: 04/24/2019 10:15
 Method: EPA Method 1668A
 Analyst: MLS
 Prep Method: SW846 3520C
 Prep Aliquot: 8245 mL

Project: ALS00117
 Matrix: WATER
 Prep Basis: As Received
 Instrument: HRP875
 Dilution: 10
 Prep SOP Ref: CF-OA-E-001

CAS No.	Parname	Qual	Result	Units	PQL
2051-60-7	1-MoCB		1770	pg/L	1310
2051-61-8	2-MoCB	U	1210	pg/L	1310
2051-62-9	3-MoCB	U	1210	pg/L	1310
13029-08-8	4-DiCB		43600	pg/L	1310
16605-91-7	5-DiCB	U	1210	pg/L	1310
25569-80-6	6-DiCB		12500	pg/L	1310
33284-50-3	7-DiCB		1640	pg/L	1310
34883-43-7	8-DiCB		55600	pg/L	1310
34883-39-1	9-DiCB		3920	pg/L	1310
33146-45-1	10-DiCB		3020	pg/L	1310
2050-67-1	11-DiCB	U	1210	pg/L	1310
2974-92-7	12-DiCB	C	3990	pg/L	2430
2974-90-5	13-DiCB	C12			
34883-41-5	14-DiCB	U	1210	pg/L	1310
2050-68-2	15-DiCB		26300	pg/L	1310
38444-78-9	16-TrCB		34600	pg/L	1310
37680-66-3	17-TrCB		38300	pg/L	1310
37680-65-2	18-TrCB	C	81000	pg/L	2430
38444-73-4	19-TrCB		13100	pg/L	1310
38444-84-7	20-TrCB	C	96600	pg/L	2430
55702-46-0	21-TrCB	C	61300	pg/L	2430
38444-85-8	22-TrCB		35400	pg/L	1310
55720-44-0	23-TrCB	U	1210	pg/L	1310
55702-45-9	24-TrCB		1630	pg/L	1310
55713-37-3	25-TrCB		7690	pg/L	1310
38444-81-4	26-TrCB	C	17500	pg/L	2430
38444-76-7	27-TrCB		6950	pg/L	1310
7012-37-5	28-TrCB	C20			
15862-07-4	29-TrCB	C26			
35693-92-6	30-TrCB	C18			
16606-02-3	31-TrCB		85000	pg/L	1310
38444-77-8	32-TrCB		24300	pg/L	1310

Comments:

C Congener has co-eluters. When Cxxx, refer to congener number xxx for data
 U Analyte was analyzed for, but not detected above the specified detection limit

PCB Congeners
Certificate of Analysis
Sample Summary

Page 2 of 8

SDG Number: 3028850
 Lab Sample ID: 14883001
 Client Sample: 1668A Water
 Client ID: 3028850 001
 Batch ID: 40573
 Run Date: 05/13/2019 17:00
 Data File: d13may19a-5
 Prep Batch: 40570
 Prep Date: 06-MAY-19

Client: ALS1001
 Date Collected: 04/17/2019 10:21
 Date Received: 04/24/2019 10:15
 Method: EPA Method 1668A
 Analyst: MLS
 Prep Method: SW846 3520C
 Prep Aliquot: 8245 mL

Project: ALS100117
 Matrix: WATER
 Prep Basis: As Received
 Instrument: HRP875
 Dilution: 10
 Prep SOP Ref: CF-OA-E-001

CAS No.	Parname	Qual	Result	Units	PQL
38444-86-9	33-TrCB	C31			
37680-68-5	34-TrCB	U	1210	pg/L	1210
37680-69-6	35-TrCB		1310	pg/L	1310
38444-87-0	36-TrCB	U	1210	pg/L	1210
38444-90-5	37-TrCB		21400	pg/L	1210
53555-66-1	38-TrCB	U	1210	pg/L	1210
38444-88-1	39-TrCB	U	1210	pg/L	1210
38444-93-8	40-TeCB	C	24400	pg/L	2430
52663-59-9	41-TeCB		7550	pg/L	1210
36559-22-5	42-TeCB		14300	pg/L	1210
70362-46-8	43-TeCB		3520	pg/L	1210
41464-39-5	44-TeCB	C	54600	pg/L	3640
70362-45-7	45-TeCB	C	14400	pg/L	2430
41464-47-5	46-TeCB		4540	pg/L	1210
2437-79-8	47-TeCB	C44			
70362-47-9	48-TeCB		15900	pg/L	1210
41464-40-8	49-TeCB	C	34300	pg/L	2430
62796-65-0	50-TeCB	C	9620	pg/L	2430
68194-04-7	51-TeCB	C45			
35693-99-3	52-TeCB		60500	pg/L	1210
41464-41-9	53-TeCB	C50			
15968-05-5	54-TeCB	U	1210	pg/L	1210
74338-24-2	55-TeCB	U	1210	pg/L	1210
41464-43-1	56-TeCB		14000	pg/L	1210
70424-67-8	57-TeCB	U	1210	pg/L	1210
41464-49-7	58-TeCB	U	1210	pg/L	1210
74472-33-6	59-TeCB	C	6120	pg/L	3640
33025-41-1	60-TeCB		8420	pg/L	1210
33284-53-6	61-TeCB	C	57700	pg/L	4850
54230-22-7	62-TeCB	C59			
74472-34-7	63-TeCB		1530	pg/L	1210
52663-58-8	64-TeCB		25300	pg/L	1210

Comments:

C Congener has co-eluters. When Cxxx, refer to congener number xxx for data
 U Analyte was analyzed for, but not detected above the specified detection limit

PCB Congeners
Certificate of Analysis
Sample Summary

Page 3 of 8

SDC Number: 3028850
 Lab Sample ID: 14883001
 Client Sample: 1668A Water
 Client ID: 3028850 001
 Batch ID: 40573
 Run Date: 05/13/2019 17:00
 Data File: dl13may19a-5
 Prep Batch: 40570
 Prep Date: 06-MAY-19

Client: ALS1001
 Date Collected: 04/17/2019 10:21
 Date Received: 04/24/2019 10:15
 Method: EPA Method 1668A
 Analyst: MLS
 Prep Method: SW846 3520C
 Prep Aliquot: 8245 mL

Project: ALS100117
 Matrix: WATER
 Prep Basis: As Received
 Instrument: HRP875
 Dilution: 10
 Prep SOP Ref: CF-OA-E-001

CAS No.	Parname	Qual	Result	Units	PQL
33384-54-7	65-TeCB	C44			
32598-10-0	66-TeCB		29300	pg/L	1310
73575-53-8	67-TeCB		1490	pg/L	1310
73575-53-7	68-TeCB	U	1210	pg/L	1310
60333-24-1	69-TeCB	C49			
32598-11-1	70-TeCB	C61			
41464-46-4	71-TeCB	C40			
41464-43-0	72-TeCB	U	1210	pg/L	1310
74338-23-1	73-TeCB	U	1210	pg/L	1310
32690-93-0	74-TeCB	C61			
32598-12-2	75-TeCB	C59			
70362-48-0	76-TeCB	C61			
32598-13-3	77-TeCB		2500	pg/L	1310
70362-49-1	78-TeCB	U	1210	pg/L	1310
41464-48-6	79-TeCB	U	1210	pg/L	1310
33384-52-5	80-TeCB	U	1210	pg/L	1310
70362-50-4	81-TeCB	U	1210	pg/L	1310
52663-62-4	82-TeCB		3340	pg/L	1310
60145-20-2	83-TeCB		1230	pg/L	1310
52663-60-2	84-TeCB		6850	pg/L	1310
65510-45-4	85-TeCB	C	4640	pg/L	3640
55313-69-1	86-TeCB	C	18300	pg/L	7280
38380-03-8	87-TeCB	C86			
55215-17-3	88-TeCB	C	3980	pg/L	2430
73575-57-2	89-TeCB	U	1210	pg/L	1310
68194-07-0	90-TeCB	C	22900	pg/L	3640
68194-05-8	91-TeCB	C88			
52663-61-3	92-TeCB		4060	pg/L	1310
73575-56-1	93-TeCB	CU	2430	pg/L	2430
73575-55-0	94-TeCB	U	1210	pg/L	1310
38379-99-6	95-TeCB		19900	pg/L	1310
73575-54-9	96-TeCB	U	1210	pg/L	1310

Comments:

C Congener has co-eluters. When Cxxx, refer to congener number xxx for data

U Analyte was analyzed for, but not detected above the specified detection limit

PCB Congeners
Certificate of Analysis
Sample Summary

SDG Number: 3028850
 Lab Sample ID: 14883001
 Client Sample: 1668A Water
 Client ID: 3028850 001
 Batch ID: 40573
 Run Date: 05/13/2019 17:00
 Data File: d13may19a-5
 Prep Batch: 40570
 Prep Date: 06-MAY-19

Client: ALS1001
 Date Collected: 04/17/2019 10:21
 Date Received: 04/24/2019 10:15
 Method: EPA Method 1668A
 Analyst: MLS
 Prep Method: SW846 3520C
 Prep Aliquot: 824.5 mL

Project: ALS100117
 Matrix: WATER
 Prep Basis: As Received
 Instrument: HRP875
 Dilution: 10
 Prep SOP Ref: CF-OA-E-001

CAS No.	Parname	Qual	Result	Units	PQL
41464-51-1	97-PeCB	C86			
60233-25-2	98-PeCB	CU	2430	pg/L	2430
38380-01-7	99-PeCB		10700	pg/L	1310
39485-83-1	100-PeCB	C93			
37680-73-2	101-PeCB	C90			
68194-06-9	102-PeCB	C98			
60145-21-3	103-PeCB	U	1210	pg/L	1210
56558-16-8	104-PeCB	U	1210	pg/L	1210
32598-14-4	105-PeCB		9860	pg/L	1210
70424-69-0	106-PeCB	U	1210	pg/L	1210
70424-68-9	107-PeCB		1310	pg/L	1210
70362-41-3	108-PeCB	CU	2430	pg/L	2430
74472-35-8	109-PeCB	C86			
38380-03-9	110-PeCB	C	25300	pg/L	2430
39635-32-0	111-PeCB	U	1210	pg/L	1210
74472-36-9	112-PeCB	U	1210	pg/L	1210
68194-10-5	113-PeCB	C90			
74472-37-0	114-PeCB	U	1210	pg/L	1210
74472-38-1	115-PeCB	C110			
18259-05-7	116-PeCB	C85			
68194-11-6	117-PeCB	C85			
31508-00-6	118-PeCB		21300	pg/L	1210
56558-17-9	119-PeCB	C86			
68194-12-7	120-PeCB	U	1210	pg/L	1210
56558-18-0	121-PeCB	U	1210	pg/L	1210
76842-07-4	122-PeCB	U	1210	pg/L	1210
65510-44-3	123-PeCB	U	1210	pg/L	1210
70424-70-3	124-PeCB	C108			
74472-39-2	125-PeCB	C86			
57465-28-8	126-PeCB	U	1210	pg/L	1210
39635-33-1	127-PeCB	U	1210	pg/L	1210
38380-07-3	128-HxCB	C	2640	pg/L	2430

Comments:

C Congener has co-eluters. When Cxxx, refer to congener number xxx for data
 U Analyte was analyzed for, but not detected above the specified detection limit

**PCB Congeners
Certificate of Analysis
Sample Summary**

SDG Number: 3028850
Lab Sample ID: 14883001
Client Sample: 1668A Water
Client ID: 3028850 001
Batch ID: 40573
Run Date: 05/13/2019 17:00
Data File: d13may19a-5
Prep Batch: 40570
Prep Date: 06-MAY-19

Client: ALST001
Date Collected: 04/17/2019 10:21
Date Received: 04/24/2019 10:15
Method: EPA Method 1668A
Analyst: MLS
Prep Method: SW846 3520C
Prep Aliquot: 8245 mL

Project: ALST00117
Matrix: WATER
Prep Basis: As Received
Instrument: HRP875
Dilution: 10
Prep SOP Ref: CF-OA-E-001

CAS No.	Parname	Qual	Result	Units	PQL
55215-18-4	129-HxCB	C	17100	pg/L	3640
52663-66-8	130-HxCB	U	1210	pg/L	1210
61798-70-7	131-HxCB	U	1210	pg/L	1210
38380-05-1	132-HxCB		5360	pg/L	1210
35694-04-3	133-HxCB	U	1210	pg/L	1210
52704-70-8	134-HxCB	U	1210	pg/L	1210
52744-13-5	135-HxCB	C	4410	pg/L	2430
38411-23-2	136-HxCB		1810	pg/L	1210
35694-06-5	137-HxCB	U	1210	pg/L	1210
35065-28-2	138-HxCB	C129			
56030-56-9	139-HxCB	CU	2430	pg/L	2430
59291-64-4	140-HxCB	C139			
52713-04-6	141-HxCB		2550	pg/L	1210
41411-61-4	142-HxCB	U	1210	pg/L	1210
68194-15-0	143-HxCB	U	1210	pg/L	1210
68194-14-9	144-HxCB	U	1210	pg/L	1210
74473-40-5	145-HxCB	U	1210	pg/L	1210
51908-16-8	146-HxCB		1820	pg/L	1210
68194-13-8	147-HxCB	C	10700	pg/L	2430
74473-41-6	148-HxCB	U	1210	pg/L	1210
38380-04-0	149-HxCB	C147			
68194-08-1	150-HxCB	U	1210	pg/L	1210
52663-63-5	151-HxCB	C135			
68194-09-2	152-HxCB	U	1210	pg/L	1210
35065-27-1	153-HxCB	C	11800	pg/L	2430
60145-23-4	154-HxCB	U	1210	pg/L	1210
33979-03-2	155-HxCB	U	1210	pg/L	1210
38380-08-4	156-HxCB	CU	2430	pg/L	2430
69782-90-7	157-HxCB	C156			
74473-43-7	158-HxCB		1710	pg/L	1210
39635-35-3	159-HxCB	U	1210	pg/L	1210
41411-62-5	160-HxCB	U	1210	pg/L	1210

Comments:

C Congener has co-eluters. When Cxxx, refer to congener number xxx for data

U Analyte was analyzed for, but not detected above the specified detection limit

PCB Congeners
Certificate of Analysis
Sample Summary

Page 6 of 8

SDG Number: 3028850
Lab Sample ID: 14883001
Client Sample: 1668A Water
Client ID: 3028850 001
Batch ID: 40573
Run Date: 05/13/2019 17:00
Data File: d13may19a-5
Prep Batch: 40570
Prep Date: 06-MAY-19

Client: ALSI001
Date Collected: 04/17/2019 10:21
Date Received: 04/24/2019 10:15
Method: EPA Method 1668A
Analyst: MLS
Prep Method: SW846 3520C
Prep Aliquot: 8245 mL

Project: ALSI00117
Matrix: WATER
Prep Basis: As Received
Instrument: HRP875
Dilution: 10
Prep SOP Ref: CF-OA-E-001

CAS No.	Parname	Qual	Result	Units	PQL
74473-43-8	161-HxCB	U	1210	pg/L	1310
39635-34-2	162-HxCB	U	1210	pg/L	1310
74473-44-9	163-HxCB	C129			
74473-45-0	164-HxCB	U	1210	pg/L	1310
74473-46-1	165-HxCB	U	1210	pg/L	1310
41411-63-6	166-HxCB	C128			
52663-72-6	167-HxCB	U	1210	pg/L	1310
59291-65-5	168-HxCB	C153			
32774-16-6	169-HxCB	U	1210	pg/L	1310
35065-30-6	170-HpCB		1750	pg/L	1310
52663-71-5	171-HpCB	CU	2430	pg/L	2430
52663-74-8	172-HpCB	U	1210	pg/L	1310
68194-16-1	173-HpCB	C171			
38411-25-5	174-HpCB		2190	pg/L	1310
40186-70-7	175-HpCB	U	1210	pg/L	1310
52663-65-7	176-HpCB	U	1210	pg/L	1310
52663-70-4	177-HpCB	U	1210	pg/L	1310
52663-67-9	178-HpCB	U	1210	pg/L	1310
52663-64-6	179-HpCB		1230	pg/L	1310
35065-29-3	180-HpCB	C	5480	pg/L	2430
74473-47-2	181-HpCB	U	1210	pg/L	1310
60145-23-5	182-HpCB	U	1210	pg/L	1310
52663-69-1	183-HpCB	CU	2430	pg/L	2430
74473-48-3	184-HpCB	U	1210	pg/L	1310
52713-05-7	185-HpCB	C183			
74473-49-4	186-HpCB	U	1210	pg/L	1310
52663-68-0	187-HpCB		3910	pg/L	1310
74487-85-7	188-HpCB	U	1210	pg/L	1310
39635-31-9	189-HpCB	U	1210	pg/L	1310
41411-64-7	190-HpCB	U	1210	pg/L	1310
74473-50-7	191-HpCB	U	1210	pg/L	1310
74473-51-8	192-HpCB	U	1210	pg/L	1310

Comments:

C Congener has co-eluters. When Cxxx, refer to congener number xxx for data
U Analyte was analyzed for, but not detected above the specified detection limit

PCB Congeners
Certificate of Analysis
Sample Summary

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SDG Number: 3028850
 Lab Sample ID: 14883001
 Client Sample: 1668A Water
 Client ID: 3028850 001
 Batch ID: 40573
 Run Date: 05/13/2019 17:00
 Data File: d13may19a-5
 Prep Batch: 40570
 Prep Date: 06-MAY-19

Client: ALS1001
 Date Collected: 04/17/2019 10:21
 Date Received: 04/24/2019 10:15
 Method: EPA Method 1668A
 Analyst: MLS
 Prep Method: SW846 3520C
 Prep Aliquot: 8245 mL

Project: ALS100117
 Matrix: WATER
 Prep Basis: As Received
 Instrument: HRP875
 Dilution: 10
 Prep SOP Ref: CF-OA-E-001

CAS No.	Parname	Qual	Result	Units	PQL
69782-91-8	193-HpCB	C180			
35694-08-7	194-OcCB		2330	pg/L	1310
52663-78-2	195-OcCB	U	1310	pg/L	1310
42740-50-1	196-OcCB		1310	pg/L	1310
33091-17-7	197-OcCB	CU	2430	pg/L	2430
68194-17-2	198-OcCB	C	4230	pg/L	2430
52663-75-9	199-OcCB	C198			
52663-73-7	200-OcCB	C197			
40186-71-8	201-OcCB	U	1310	pg/L	1310
2136-99-4	202-OcCB	U	1310	pg/L	1310
52663-76-0	203-OcCB		3010	pg/L	1310
74472-53-9	204-OcCB	U	1310	pg/L	1310
74472-53-0	205-OcCB	U	1310	pg/L	1310
40186-72-9	206-NoCB		4050	pg/L	1310
52663-79-3	207-NoCB	U	1310	pg/L	1310
52663-77-1	208-NoCB	U	1310	pg/L	1310
2051-34-3	209-DeCB	U	1310	pg/L	1310
1336-36-3	Total PCB Congeners		1310000	pg/L	1310

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery %	Acceptable Limits
13C-1-MoCB		1130	2430	pg/L	46.2	(15%-150%)
13C-3-MoCB		1130	2430	pg/L	46.3	(15%-150%)
13C-4-DiCB		1050	2430	pg/L	43.4	(25%-150%)
13C-15-DiCB		1440	2430	pg/L	59.5	(25%-150%)
13C-19-TrCB		1250	2430	pg/L	51.6	(25%-150%)
13C-37-TrCB		1650	2430	pg/L	68.0	(25%-150%)
13C-54-TeCB		1330	2430	pg/L	54.4	(25%-150%)
13C-77-TeCB		1570	2430	pg/L	64.6	(25%-150%)
13C-81-TeCB		1680	2430	pg/L	69.3	(25%-150%)
13C-104-PeCB		1590	2430	pg/L	65.7	(25%-150%)
13C-105-PeCB		1780	2430	pg/L	73.5	(25%-150%)
13C-114-PeCB		1840	2430	pg/L	75.9	(25%-150%)
13C-118-PeCB		1780	2430	pg/L	73.3	(25%-150%)
13C-123-PeCB		1860	2430	pg/L	76.8	(25%-150%)
13C-126-PeCB		1730	2430	pg/L	71.4	(25%-150%)
13C-155-HxCB		1490	2430	pg/L	61.6	(25%-150%)
13C-156-HxCB	C	3470	4850	pg/L	71.6	(25%-150%)
13C-157-HxCB	C156L					
13C-167-HxCB		1780	2430	pg/L	73.5	(25%-150%)
13C-169-HxCB		1820	2430	pg/L	75.0	(25%-150%)
13C-188-HpCB		1470	2430	pg/L	60.5	(25%-150%)
13C-189-HpCB		1750	2430	pg/L	72.1	(25%-150%)

PCB Congeners
Certificate of Analysis
Sample Summary

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SDG Number: 3028850
 Lab Sample ID: 14883001
 Client Sample: 1668A Water
 Client ID: 3028850 001
 Batch ID: 40573
 Run Date: 05/13/2019 17:00
 Data File: d13may19a-5
 Prep Batch: 40570
 Prep Date: 06-MAY-19

Client: ALS1001
 Date Collected: 04/17/2019 10:21
 Date Received: 04/24/2019 10:15
 Method: EPA Method 1668A
 Analyst: MLS
 Prep Method: SW846 3520C
 Prep Aliquot: 8245 mL

Project: ALS100117
 Matrix: WATER
 Prep Basis: As Received
 Instrument: HRP875
 Dilution: 10
 Prep SOP Ref: CF-OA-E-001

CAS No.	Parname	Qual	Result	Units	PQL		
Surrogate/Tracer recovery		Qual	Result	Nominal	Units	Recovery %	Acceptable Limits
13C-203-OCB			1500	2430	pg/L	61.8	(25%-150%)
13C-205-OCB			2030	2430	pg/L	83.1	(25%-150%)
13C-206-NOCB			2030	2430	pg/L	83.1	(25%-150%)
13C-208-NOCB			1770	2430	pg/L	72.8	(25%-150%)
13C-209-DeCB			1910	2430	pg/L	78.9	(25%-150%)
13C-28-TrCB			2400	2430	pg/L	98.9	(30%-135%)
13C-111-PeCB			2130	2430	pg/L	87.2	(30%-135%)
13C-178-HpCB			2130	2430	pg/L	87.9	(30%-135%)

Comments:

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PCB Congeners
Certificate of Analysis
Sample Summary

Page 1 of 8

SDG Number: 3028850
Lab Sample ID: 14883002
Client Sample: 1668A Water
Client ID: 3028850 002
Batch ID: 40573
Run Date: 05/13/2019 18:09
Data File: dl3may19a-6
Prep Batch: 40570
Prep Date: 06-MAY-19

Client: ALSI001
Date Collected: 04/17/2019 10:43
Date Received: 04/24/2019 10:15
Method: EPA Method 1668A
Analyst: MLS
Prep Method: SW846 3520C
Prep Aliquot: 812.5 mL

Project: ALSI00117
Matrix: WATER
Prep Basis: As Received
Instrument: HRP875
Dilution: 10
Prep SOP Ref: CF-OA-E-001

CAS No.	Parname	Qual	Result	Units	PQL
2051-60-7	1-MoCB		8460	pg/L	1330
2051-61-8	2-MoCB		1630	pg/L	1330
2051-62-9	3-MoCB		6170	pg/L	1330
13029-08-8	4-DiCB		83500	pg/L	1330
16605-91-7	5-DiCB		4380	pg/L	1330
25569-80-6	6-DiCB		38900	pg/L	1330
33284-50-3	7-DiCB		7570	pg/L	1330
34883-43-7	8-DiCB		187000	pg/L	1330
34883-39-1	9-DiCB		12400	pg/L	1330
33146-45-1	10-DiCB		4950	pg/L	1330
2050-67-1	11-DiCB		6070	pg/L	1330
2974-92-7	12-DiCB	C	12800	pg/L	2460
2974-90-5	13-DiCB	C12			
34883-41-5	14-DiCB	U	1330	pg/L	1330
2050-68-2	15-DiCB		92000	pg/L	1330
38444-78-9	16-TrCB		84600	pg/L	1330
37680-66-3	17-TrCB		92800	pg/L	1330
37680-65-2	18-TrCB	C	194000	pg/L	2460
38444-73-4	19-TrCB		26500	pg/L	1330
38444-84-7	20-TrCB	C	240000	pg/L	2460
55702-46-0	21-TrCB	C	157000	pg/L	2460
38444-85-8	22-TrCB		88300	pg/L	1330
55720-44-0	23-TrCB	U	1230	pg/L	1330
55702-45-9	24-TrCB		3650	pg/L	1330
55713-37-3	25-TrCB		19100	pg/L	1330
38444-81-4	26-TrCB	C	41900	pg/L	2460
38444-76-7	27-TrCB		16300	pg/L	1330
7012-37-5	28-TrCB	C20			
15862-07-4	29-TrCB	C26			
35693-92-6	30-TrCB	C18			
16606-02-3	31-TrCB		207000	pg/L	1330
38444-77-8	32-TrCB		56800	pg/L	1330

Comments:

C Congener has co-eluters. When Cxxx, refer to congener number xxx for data
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**PCB Congeners
Certificate of Analysis
Sample Summary**

SDG Number: 3028850
Lab Sample ID: 14883002
Client Sample: 1668A Water
Client ID: 3028850 002
Batch ID: 40573
Run Date: 05/13/2019 18:09
Data File: dl3may19a-6
Prep Batch: 40570
Prep Date: 06-MAY-19

Client: ALS1001
Date Collected: 04/17/2019 10:43
Date Received: 04/24/2019 10:15
Method: EPA Method 1668A
Analyst: MLS
Prep Method: SW846 3520C
Prep Aliquot: 812.5 mL

Project: ALS100117
Matrix: WATER
Prep Basis: As Received
Instrument: HRP875
Dilution: 10
Prep SOP Ref: CF-OA-E-001

CAS No.	Parname	Qual	Result	Units	PQL
38444-86-9	33-TrCB	C31			
37680-68-5	34-TrCB	U	1230	pg/L	1230
37680-69-6	35-TrCB		3170	pg/L	1230
38444-87-0	36-TrCB	U	1230	pg/L	1230
38444-90-5	37-TrCB		52900	pg/L	1230
53555-66-1	38-TrCB	U	1230	pg/L	1230
38444-88-1	39-TrCB	U	1230	pg/L	1230
38444-93-8	40-TeCB	C	50400	pg/L	2460
52663-59-9	41-TeCB		15200	pg/L	1230
36559-23-5	42-TeCB		29600	pg/L	1230
70362-46-8	43-TeCB		7360	pg/L	1230
41464-39-5	44-TeCB	C	114000	pg/L	3690
70362-45-7	45-TeCB	C	30900	pg/L	2460
41464-47-5	46-TeCB		9870	pg/L	1230
2437-79-8	47-TeCB	C44			
70362-47-9	48-TeCB		31500	pg/L	1230
41464-40-8	49-TeCB	C	70700	pg/L	2460
62796-65-0	50-TeCB	C	20700	pg/L	2460
68194-04-7	51-TeCB	C45			
35693-99-3	52-TeCB		129000	pg/L	1230
41464-41-9	53-TeCB	C50			
15968-05-5	54-TeCB	U	1230	pg/L	1230
74338-24-2	55-TeCB		2360	pg/L	1230
41464-43-1	56-TeCB		25700	pg/L	1230
70424-67-8	57-TeCB	U	1230	pg/L	1230
41464-49-7	58-TeCB	U	1230	pg/L	1230
74472-33-6	59-TeCB	C	12600	pg/L	3690
33025-41-1	60-TeCB		15600	pg/L	1230
33284-53-6	61-TeCB	C	113000	pg/L	4920
54230-22-7	62-TeCB	C59			
74472-34-7	63-TeCB		2800	pg/L	1230
52663-58-8	64-TeCB		51600	pg/L	1230

Comments:

C Congener has co-eluters. When Cxxx, refer to congener number xxx for data

U Analyte was analyzed for, but not detected above the specified detection limit

PCB Congeners
Certificate of Analysis
Sample Summary

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SDG Number: 3028850
 Lab Sample ID: 14883002
 Client Sample: 1668A Water
 Client ID: 3028850 002
 Batch ID: 40573
 Run Date: 05/13/2019 18:09
 Data File: d13may19a-6
 Prep Batch: 40570
 Prep Date: 06-MAY-19

Client: ALS1001
 Date Collected: 04/17/2019 10:43
 Date Received: 04/24/2019 10:15
 Method: EPA Method 1668A
 Analyst: MLS
 Prep Method: SW846 3520C
 Prep Aliquot: 812.5 mL

Project: ALS100117
 Matrix: WATER
 Prep Basis: As Received
 Instrument: HRP875
 Dilution: 10
 Prep SOP Ref: CF-OA-E-001

CAS No.	Parname	Qual	Result	Units	PQL
33384-54-7	65-TeCB	C44			
32598-10-0	66-TeCB		54400	pg/L	1330
73575-53-8	67-TeCB		3770	pg/L	1330
73575-53-7	68-TeCB	U	1230	pg/L	1330
60233-24-1	69-TeCB	C49			
32598-11-1	70-TeCB	C61			
41464-46-4	71-TeCB	C40			
41464-43-0	73-TeCB	U	1230	pg/L	1330
74338-23-1	73-TeCB		1480	pg/L	1330
32690-93-0	74-TeCB	C61			
32598-12-2	75-TeCB	C59			
70362-48-0	76-TeCB	C61			
32598-13-3	77-TeCB		4580	pg/L	1330
70362-49-1	78-TeCB	U	1230	pg/L	1330
41464-48-6	79-TeCB	U	1230	pg/L	1330
33284-52-5	80-TeCB	U	1230	pg/L	1330
70362-50-4	81-TeCB	U	1230	pg/L	1330
52663-62-4	82-TeCB		6960	pg/L	1330
60145-20-2	83-TeCB		3850	pg/L	1330
52663-60-2	84-TeCB		15800	pg/L	1330
65510-45-4	85-TeCB	C	9300	pg/L	3690
55312-69-1	86-TeCB	C	43300	pg/L	7380
38380-02-8	87-TeCB	C86			
55215-17-3	88-TeCB	C	8100	pg/L	2460
73575-57-2	89-TeCB	U	1230	pg/L	1330
68194-07-0	90-TeCB	C	52100	pg/L	3690
68194-05-8	91-TeCB	C88			
52663-61-3	92-TeCB		9130	pg/L	1330
73575-56-1	93-TeCB	CU	2460	pg/L	2460
73575-55-0	94-TeCB	U	1230	pg/L	1330
38379-99-6	95-TeCB		46500	pg/L	1330
73575-54-9	96-TeCB	U	1230	pg/L	1330

Comments:

C Congener has co-eluters. When Cxxx, refer to congener number xxx for data
 U Analyte was analyzed for, but not detected above the specified detection limit

PCB Congeners
Certificate of Analysis
Sample Summary

SDG Number: 3028850
 Lab Sample ID: 14883002
 Client Sample: 1668A Water
 Client ID: 3028850 002
 Batch ID: 40573
 Run Date: 05/13/2019 18:09
 Data File: d13may19a-6
 Prep Batch: 40570
 Prep Date: 06-MAY-19

Client: ALS1001
 Date Collected: 04/17/2019 10:43
 Date Received: 04/24/2019 10:15
 Method: EPA Method 1668A
 Analyst: MLS
 Prep Method: SW846 3520C
 Prep Aliquot: 812.5 mL

Project: ALS100117
 Matrix: WATER
 Prep Basis: As Received
 Instrument: HRP875
 Dilution: 10
 Prep SOP Ref: CF-OA-E-001

CAS No.	Parmname	Qual	Result	Units	PQL
41464-51-1	97-PeCB	C86			
60233-25-2	98-PeCB	CU	2460	pg/L	2460
38380-01-7	99-PeCB		21500	pg/L	1330
39485-83-1	100-PeCB	C93			
37680-73-2	101-PeCB	C90			
68194-06-9	102-PeCB	C98			
60145-21-3	103-PeCB	U	1230	pg/L	1230
56558-16-8	104-PeCB	U	1230	pg/L	1230
32598-14-4	105-PeCB		22400	pg/L	1230
70424-69-0	106-PeCB	U	1230	pg/L	1230
70424-68-9	107-PeCB		2960	pg/L	1230
70362-41-3	108-PeCB	CU	2460	pg/L	2460
74472-35-8	109-PeCB	C86			
38380-03-9	110-PeCB	C	59600	pg/L	2460
39635-32-0	111-PeCB	U	1230	pg/L	1230
74472-36-9	112-PeCB	U	1230	pg/L	1230
68194-10-5	113-PeCB	C90			
74472-37-0	114-PeCB		1410	pg/L	1230
74472-38-1	115-PeCB	C110			
18259-05-7	116-PeCB	C85			
68194-11-6	117-PeCB	C85			
31508-00-6	118-PeCB		49800	pg/L	1230
56558-17-9	119-PeCB	C86			
68194-12-7	120-PeCB	U	1230	pg/L	1230
56558-18-0	121-PeCB	U	1230	pg/L	1230
76842-07-4	122-PeCB	U	1230	pg/L	1230
65510-44-3	123-PeCB		1400	pg/L	1230
70424-70-3	124-PeCB	C108			
74472-39-2	125-PeCB	C86			
57465-28-8	126-PeCB	U	1230	pg/L	1230
39635-33-1	127-PeCB	U	1230	pg/L	1230
38380-07-3	128-HxCB	C	6810	pg/L	2460

Comments:

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 U Analyte was analyzed for, but not detected above the specified detection limit

PCB Congeners
Certificate of Analysis
Sample Summary

SDG Number: 3028850
 Lab Sample ID: 14883002
 Client Sample: 1668A Water
 Client ID: 3028850 002
 Batch ID: 40573
 Run Date: 05/13/2019 18:09
 Data File: d13may19a-6
 Prep Batch: 40570
 Prep Date: 06-MAY-19

Client: ALS1001
 Date Collected: 04/17/2019 10:43
 Date Received: 04/24/2019 10:15
 Method: EPA Method 1668A
 Analyst: MLS
 Prep Method: SW846 3520C
 Prep Aliquot: 812.5 mL

Project: ALS100117
 Matrix: WATER
 Prep Basis: As Received
 Instrument: HRP875
 Dilution: 10
 Prep SOP Ref: CF-OA-E-001

CAS No.	Parname	Qual	Result	Units	PQL
55215-18-4	129-HxCB	C	45300	pg/L	3690
52663-66-8	130-HxCB		2730	pg/L	1330
61798-70-7	131-HxCB	U	1230	pg/L	1330
38380-05-1	132-HxCB		13700	pg/L	1330
35694-04-3	133-HxCB	U	1230	pg/L	1330
52704-70-8	134-HxCB		2810	pg/L	1330
52744-13-5	135-HxCB	C	11700	pg/L	2460
38411-22-2	136-HxCB		4770	pg/L	1330
35694-06-5	137-HxCB		2430	pg/L	1330
35065-28-2	138-HxCB	C139			
56030-56-9	139-HxCB	CU	2460	pg/L	2460
59291-64-4	140-HxCB	C139			
52713-04-6	141-HxCB		7100	pg/L	1330
41411-61-4	142-HxCB	U	1230	pg/L	1330
68194-15-0	143-HxCB	U	1230	pg/L	1330
68194-14-9	144-HxCB		1990	pg/L	1330
74473-40-5	145-HxCB	U	1230	pg/L	1330
51908-16-8	146-HxCB		4840	pg/L	1330
68194-13-8	147-HxCB	C	27800	pg/L	2460
74473-41-6	148-HxCB	U	1230	pg/L	1330
38380-04-0	149-HxCB	C147			
68194-08-1	150-HxCB	U	1230	pg/L	1330
52663-63-5	151-HxCB	C135			
68194-09-2	152-HxCB	U	1230	pg/L	1330
35065-27-1	153-HxCB	C	31600	pg/L	2460
60145-22-4	154-HxCB	U	1230	pg/L	1330
33979-03-2	155-HxCB	U	1230	pg/L	1330
38380-08-4	156-HxCB	C	6640	pg/L	2460
69783-90-7	157-HxCB	C156			
74473-43-7	158-HxCB		4490	pg/L	1330
39635-35-3	159-HxCB	U	1230	pg/L	1330
41411-62-5	160-HxCB	U	1230	pg/L	1330

Comments:

C Congener has co-eluters. When Cxxx, refer to congener number xxx for data

U Analyte was analyzed for, but not detected above the specified detection limit

PCB Congeners
Certificate of Analysis
Sample Summary

Page 6 of 8

SDG Number: 3028850
 Lab Sample ID: 14883002
 Client Sample: 1668A Water
 Client ID: 3028850 002
 Batch ID: 40573
 Run Date: 05/13/2019 18:09
 Data File: dl13may19a-6
 Prep Batch: 40570
 Prep Date: 06-MAY-19

Client: ALSI001
 Date Collected: 04/17/2019 10:43
 Date Received: 04/24/2019 10:15
 Method: EPA Method 1668A
 Analyst: MLS
 Prep Method: SW846 3520C
 Prep Aliquot: 812.5 mL

Project: ALSI00117
 Matrix: WATER
 Prep Basis: As Received
 Instrument: HRP875
 Dilution: 10
 Prep SOP Ref: CF-OA-E-001

CAS No.	Parname	Qual	Result	Units	PQL
74472-43-8	161-HxCB	U	1230	pg/L	1230
39635-34-2	162-HxCB	U	1230	pg/L	1230
74472-44-9	163-HxCB	C129			
74472-45-0	164-HxCB		2530	pg/L	1230
74472-46-1	165-HxCB	U	1230	pg/L	1230
41411-63-6	166-HxCB	C128			
52663-72-6	167-HxCB		1910	pg/L	1230
59291-65-5	168-HxCB	C153			
32774-16-6	169-HxCB	U	1230	pg/L	1230
35065-30-6	170-HpCB		7360	pg/L	1230
52663-71-5	171-HpCB	C U	2460	pg/L	2460
52663-74-8	172-HpCB		1480	pg/L	1230
68194-16-1	173-HpCB	C171			
38411-25-5	174-HpCB		8540	pg/L	1230
40186-70-7	175-HpCB	U	1230	pg/L	1230
52663-65-7	176-HpCB	U	1230	pg/L	1230
52663-70-4	177-HpCB		4520	pg/L	1230
52663-67-9	178-HpCB		1910	pg/L	1230
52663-64-6	179-HpCB		3890	pg/L	1230
35065-29-3	180-HpCB	C	22100	pg/L	2460
74472-47-2	181-HpCB	U	1230	pg/L	1230
60145-23-5	182-HpCB	U	1230	pg/L	1230
52663-69-1	183-HpCB	C	7260	pg/L	2460
74472-48-3	184-HpCB	U	1230	pg/L	1230
52713-05-7	185-HpCB	C183			
74472-49-4	186-HpCB	U	1230	pg/L	1230
52663-68-0	187-HpCB		13300	pg/L	1230
74487-85-7	188-HpCB	U	1230	pg/L	1230
39635-31-9	189-HpCB	U	1230	pg/L	1230
41411-64-7	190-HpCB		1810	pg/L	1230
74472-50-7	191-HpCB	U	1230	pg/L	1230
74472-51-8	192-HpCB	U	1230	pg/L	1230

Comments:

C Congener has co-eluters. When Cxxx, refer to congener number xxx for data
 U Analyte was analyzed for, but not detected above the specified detection limit

PCB Congeners
Certificate of Analysis
Sample Summary

SDG Number: 3028850
 Lab Sample ID: 14883002
 Client Sample: 1668A Water
 Client ID: 3028850 002
 Batch ID: 40573
 Run Date: 05/13/2019 18:09
 Data File: d13may19a-6
 Prep Batch: 40570
 Prep Date: 06-MAY-19

Client: ALS1001
 Date Collected: 04/17/2019 10:43
 Date Received: 04/24/2019 10:15
 Method: EPA Method 1668A
 Analyst: MLS
 Prep Method: SW846 3520C
 Prep Aliquot: 812.5 mL

Project: ALS100117
 Matrix: WATER
 Prep Basis: As Received
 Instrument: HRP875
 Dilution: 10
 Prep SOP Ref: CF-OA-E-001

CAS No.	Parname	Qual	Result	Units	PQL
69783-91-8	193-HpCB	C180			
35694-08-7	194-OcCB		8890	pg/L	1330
52663-78-2	195-OcCB		3400	pg/L	1330
42740-50-1	196-OcCB		4740	pg/L	1330
33091-17-7	197-OcCB	C U	2460	pg/L	2460
68194-17-2	198-OcCB	C	14800	pg/L	2460
52663-75-9	199-OcCB	C198			
52663-73-7	200-OcCB	C197			
40186-71-8	201-OcCB		1620	pg/L	1330
2136-99-4	202-OcCB		3900	pg/L	1330
52663-76-0	203-OcCB		10300	pg/L	1330
74472-53-9	204-OcCB	U	1230	pg/L	1330
74472-53-0	205-OcCB	U	1230	pg/L	1330
40186-72-9	206-NoCB		14900	pg/L	1330
52663-79-3	207-NoCB		1620	pg/L	1330
52663-77-1	208-NoCB		5240	pg/L	1330
2051-24-3	209-DeCB		4610	pg/L	1330
1336-36-3	Total PCB Congeners		3220000	pg/L	1330

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery %	Acceptable Limits
13C-1-MoCB		1030	2460	pg/L	41.7	(15%-150%)
13C-3-MoCB		1010	2460	pg/L	41.0	(15%-150%)
13C-4-DiCB		1000	2460	pg/L	40.7	(25%-150%)
13C-15-DiCB		1230	2460	pg/L	49.8	(25%-150%)
13C-19-TrCB		1240	2460	pg/L	50.5	(25%-150%)
13C-37-TrCB		1480	2460	pg/L	60.2	(25%-150%)
13C-54-TeCB		1120	2460	pg/L	45.5	(25%-150%)
13C-77-TeCB		1380	2460	pg/L	56.0	(25%-150%)
13C-81-TeCB		1440	2460	pg/L	58.5	(25%-150%)
13C-104-PeCB		1300	2460	pg/L	52.7	(25%-150%)
13C-105-PeCB		1510	2460	pg/L	61.4	(25%-150%)
13C-114-PeCB		1500	2460	pg/L	61.0	(25%-150%)
13C-118-PeCB		1500	2460	pg/L	61.0	(25%-150%)
13C-123-PeCB		1610	2460	pg/L	65.2	(25%-150%)
13C-126-PeCB		1490	2460	pg/L	60.6	(25%-150%)
13C-155-HxCB		1240	2460	pg/L	50.4	(25%-150%)
13C-156-HxCB	C	3950	4920	pg/L	60.0	(25%-150%)
13C-157-HxCB	C 156L					
13C-167-HxCB		1520	2460	pg/L	61.7	(25%-150%)
13C-169-HxCB		1580	2460	pg/L	64.1	(25%-150%)
13C-188-HpCB		1240	2460	pg/L	50.5	(25%-150%)
13C-189-HpCB		1480	2460	pg/L	60.2	(25%-150%)

PCB Congeners
Certificate of Analysis
Sample Summary

Page 8 of 8

SDG Number: 3028850
 Lab Sample ID: 14883002
 Client Sample: 1668A Water
 Client ID: 3028850 002
 Batch ID: 40573
 Run Date: 05/13/2019 18:09
 Data File: d13may19a-6
 Prep Batch: 40570
 Prep Date: 06-MAY-19

Client: ALS1001
 Date Collected: 04/17/2019 10:43
 Date Received: 04/24/2019 10:15
 Method: EPA Method 1668A
 Analyst: MLS
 Prep Method: SW846 3520C
 Prep Aliquot: 812.5 mL

Project: ALS100117
 Matrix: WATER
 Prep Basis: As Received
 Instrument: HRP875
 Dilution: 10
 Prep SOP Ref: CF-OA-E-001

CAS No.	Parname	Qual	Result	Units	PQL		
Surrogate/Tracer recovery		Qual	Result	Nominal	Units	Recovery %	Acceptable Limits
13C-303-OCB			1250	3460	pg/L	50.7	(25%-150%)
13C-305-OCB			1720	3460	pg/L	70.1	(25%-150%)
13C-306-NoCB			1740	3460	pg/L	70.9	(25%-150%)
13C-308-NoCB			1450	3460	pg/L	59.0	(25%-150%)
13C-309-DeCB			1600	3460	pg/L	65.1	(25%-150%)
13C-38-TrCB			3050	3460	pg/L	83.3	(30%-135%)
13C-111-PeCB			1830	3460	pg/L	74.4	(30%-135%)
13C-178-HpCB			1790	3460	pg/L	72.8	(30%-135%)

Comments:

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**PCB Congeners
Certificate of Analysis
Sample Summary**

Page 1 of 8

SDG Number: 3028850
Lab Sample ID: 14883003
Client Sample: 1668A Water
Client ID: 3028850 003
Batch ID: 40573
Run Date: 05/14/2019 18:48
Data File: d14may19a-4
Prep Batch: 40570
Prep Date: 06-MAY-19

Client: ALS1001
Date Collected: 04/17/2019 10:58
Date Received: 04/24/2019 10:15
Method: EPA Method 1668A
Analyst: MLS
Prep Method: SW846 3520C
Prep Aliquot: 246 mL

Project: ALS100117
Matrix: WATER
Prep Basis: As Received
Instrument: HRP875
Dilution: 1
Prep SOP Ref: CF-OA-E-001

CAS No.	Parname	Qual	Result	Units	PQL
2051-60-7	1-MoCB	U	407000	pg/L	407000
2051-61-8	2-MoCB	U	407000	pg/L	407000
2051-62-9	3-MoCB	U	407000	pg/L	407000
13029-08-8	4-DiCB	Q	1710000	pg/L	407000
16605-91-7	5-DiCB	U	407000	pg/L	407000
25569-80-6	6-DiCB		672000	pg/L	407000
33284-50-3	7-DiCB	U	407000	pg/L	407000
34883-43-7	8-DiCB		3020000	pg/L	407000
34883-39-1	9-DiCB	U	407000	pg/L	407000
33146-45-1	10-DiCB	U	407000	pg/L	407000
2050-67-1	11-DiCB	U	407000	pg/L	407000
2974-92-7	12-DiCB	CU	813000	pg/L	813000
2974-90-5	13-DiCB	C12			
34883-41-5	14-DiCB	U	407000	pg/L	407000
2050-68-2	15-DiCB		2260000	pg/L	407000
38444-78-9	16-TrCB		1790000	pg/L	407000
37680-66-3	17-TrCB		1950000	pg/L	407000
37680-65-2	18-TrCB	C	4270000	pg/L	813000
38444-73-4	19-TrCB		683000	pg/L	407000
38444-84-7	20-TrCB	C	6500000	pg/L	813000
55702-46-0	21-TrCB	C	3710000	pg/L	813000
38444-85-8	22-TrCB		2310000	pg/L	407000
55720-44-0	23-TrCB	U	407000	pg/L	407000
55702-45-9	24-TrCB	U	407000	pg/L	407000
55713-37-3	25-TrCB		484000	pg/L	407000
38444-81-4	26-TrCB	C	999000	pg/L	813000
38444-76-7	27-TrCB	U	407000	pg/L	407000
7012-37-5	28-TrCB	C20			
15862-07-4	29-TrCB	C26			
35693-92-6	30-TrCB	C18			
16606-02-3	31-TrCB		5100000	pg/L	407000
38444-77-8	32-TrCB		1430000	pg/L	407000

Comments:

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Q Quantitative Interference; value is estimated
U Analyte was analyzed for, but not detected above the specified detection limit

PCB Congeners
Certificate of Analysis
Sample Summary

SDG Number: 3028850
 Lab Sample ID: 14883003
 Client Sample: 1668A Water
 Client ID: 3028850 003
 Batch ID: 40573
 Run Date: 05/14/2019 18:48
 Data File: d14may19a-4
 Prep Batch: 40570
 Prep Date: 06-MAY-19

Client: ALS1001
 Date Collected: 04/17/2019 10:58
 Date Received: 04/24/2019 10:15
 Method: EPA Method 1668A
 Analyst: MLS
 Prep Method: SW846 3520C
 Prep Aliquot: 246 mL

Project: ALS100117
 Matrix: WATER
 Prep Basis: As Received
 Instrument: HRP875
 Dilution: 1
 Prep SOP Ref: CF-OA-E-001

CAS No.	Parname	Qual	Result	Units	PQL
38444-86-9	33-TrCB	C31			
37680-68-5	34-TrCB	U	407000	pg/L	407000
37680-69-6	35-TrCB	U	407000	pg/L	407000
38444-87-0	36-TrCB	U	407000	pg/L	407000
38444-90-5	37-TrCB		3380000	pg/L	407000
53555-66-1	38-TrCB	U	407000	pg/L	407000
38444-88-1	39-TrCB	U	407000	pg/L	407000
38444-93-8	40-TeCB	C	3500000	pg/L	813000
52663-59-9	41-TeCB		713000	pg/L	407000
36559-22-5	42-TeCB		1710000	pg/L	407000
70362-46-8	43-TeCB		429000	pg/L	407000
41464-39-5	44-TeCB	C	5580000	pg/L	1320000
70362-45-7	45-TeCB	C	1110000	pg/L	813000
41464-47-5	46-TeCB	U	407000	pg/L	407000
2437-79-8	47-TeCB	C44			
70362-47-9	48-TeCB		1140000	pg/L	407000
41464-40-8	49-TeCB	C	3250000	pg/L	813000
62796-65-0	50-TeCB	CU	813000	pg/L	813000
68194-04-7	51-TeCB	C45			
35693-99-3	52-TeCB		6040000	pg/L	407000
41464-41-9	53-TeCB	C50			
15968-05-5	54-TeCB	U	407000	pg/L	407000
74338-24-2	55-TeCB	U	407000	pg/L	407000
41464-43-1	56-TeCB		1810000	pg/L	407000
70424-67-8	57-TeCB	U	407000	pg/L	407000
41464-49-7	58-TeCB	U	407000	pg/L	407000
74472-33-6	59-TeCB	CU	1220000	pg/L	1220000
33025-41-1	60-TeCB		911000	pg/L	407000
33284-53-6	61-TeCB	C	6550000	pg/L	1630000
54230-22-7	62-TeCB	C59			
74472-34-7	63-TeCB	U	407000	pg/L	407000
52663-58-8	64-TeCB		2710000	pg/L	407000

Comments:

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 Q Quantitative Interference; value is estimated
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PCB Congeners
Certificate of Analysis
Sample Summary

Page 3 of 8

SDG Number: 3028850
 Lab Sample ID: 14883003
 Client Sample: 1668A Water
 Client ID: 3028850 003
 Batch ID: 40573
 Run Date: 05/14/2019 18:48
 Data File: d14may19a-4
 Prep Batch: 40570
 Prep Date: 06-MAY-19

Client: ALS1001
 Date Collected: 04/17/2019 10:58
 Date Received: 04/24/2019 10:15
 Method: EPA Method 1668A
 Analyst: MLS
 Prep Method: SW846 3520C
 Prep Aliquot: .246 mL

Project: ALS100117
 Matrix: WATER
 Prep Basis: As Received
 Instrument: HRP875
 Dilution: 1
 Prep SOP Ref: CF-OA-E-001

CAS No.	Parname	Qual	Result	Units	PQL
33284-54-7	65-TeCB	C44			
32598-10-0	66-TeCB		3390000	pg/L	407000
73575-53-8	67-TeCB	U	407000	pg/L	407000
73575-52-7	68-TeCB	U	407000	pg/L	407000
60233-24-1	69-TeCB	C49			
32598-11-1	70-TeCB	C61			
41464-46-4	71-TeCB	C40			
41464-42-0	72-TeCB	U	407000	pg/L	407000
74338-23-1	73-TeCB	U	407000	pg/L	407000
32690-93-0	74-TeCB	C61			
32598-12-2	75-TeCB	C59			
70362-48-0	76-TeCB	C61			
32598-13-3	77-TeCB		463000	pg/L	407000
70362-49-1	78-TeCB	U	407000	pg/L	407000
41464-48-6	79-TeCB	U	407000	pg/L	407000
33284-52-5	80-TeCB	U	407000	pg/L	407000
70362-50-4	81-TeCB	U	407000	pg/L	407000
52663-62-4	82-TeCB		833000	pg/L	407000
60145-20-2	83-TeCB		459000	pg/L	407000
52663-60-2	84-TeCB		1670000	pg/L	407000
65510-45-4	85-TeCB	CU	1220000	pg/L	1220000
55312-69-1	86-TeCB	C	4670000	pg/L	2440000
38380-02-8	87-TeCB	C86			
55215-17-3	88-TeCB	CU	813000	pg/L	813000
73575-57-2	89-TeCB	U	407000	pg/L	407000
68194-07-0	90-TeCB	C	5870000	pg/L	1220000
68194-05-8	91-TeCB	C88			
52663-61-3	92-TeCB		1040000	pg/L	407000
73575-56-1	93-TeCB	CU	813000	pg/L	813000
73575-55-0	94-TeCB	U	407000	pg/L	407000
38379-99-6	95-TeCB		4580000	pg/L	407000
73575-54-9	96-TeCB	U	407000	pg/L	407000

Comments:

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 U Analyte was analyzed for, but not detected above the specified detection limit

PCB Congeners
Certificate of Analysis
Sample Summary

SDG Number: 3028850
 Lab Sample ID: 14883003
 Client Sample: 1668A Water
 Client ID: 3028850 003
 Batch ID: 40573
 Run Date: 05/14/2019 18:48
 Data File: d14may19a-4
 Prep Batch: 40570
 Prep Date: 06-MAY-19

Client: ALS1001
 Date Collected: 04/17/2019 10:58
 Date Received: 04/24/2019 10:15
 Method: EPA Method 1668A
 Analyst: MLS
 Prep Method: SW846 3520C
 Prep Aliquot: .246 mL

Project: ALS100117
 Matrix: WATER
 Prep Basis: As Received
 Instrument: HRP875
 Dilution: 1
 Prep SOP Ref: CF-OA-E-001

CAS No.	Parname	Qual	Result	Units	PQL
41464-51-1	97-PeCB	CS6			
60233-25-2	98-PeCB	CU	813000	pg/L	813000
38380-01-7	99-PeCB		2500000	pg/L	407000
39485-83-1	100-PeCB	C93			
37680-73-2	101-PeCB	C90			
68194-06-9	102-PeCB	C98			
60145-21-3	103-PeCB	U	407000	pg/L	407000
56558-16-8	104-PeCB	U	407000	pg/L	407000
32598-14-4	105-PeCB		2770000	pg/L	407000
70424-69-0	106-PeCB	U	407000	pg/L	407000
70424-68-9	107-PeCB	U	407000	pg/L	407000
70362-41-3	108-PeCB	CU	813000	pg/L	813000
74472-35-8	109-PeCB	CS6			
38380-03-9	110-PeCB	C	7260000	pg/L	813000
39635-33-0	111-PeCB	U	407000	pg/L	407000
74472-36-9	112-PeCB	U	407000	pg/L	407000
68194-10-5	113-PeCB	C90			
74472-37-0	114-PeCB	U	407000	pg/L	407000
74472-38-1	115-PeCB	C110			
18259-05-7	116-PeCB	CS5			
68194-11-6	117-PeCB	CS5			
31508-00-6	118-PeCB		5710000	pg/L	407000
56558-17-9	119-PeCB	CS6			
68194-12-7	120-PeCB	U	407000	pg/L	407000
56558-18-0	121-PeCB	U	407000	pg/L	407000
76842-07-4	122-PeCB	U	407000	pg/L	407000
65510-44-3	123-PeCB	U	407000	pg/L	407000
70424-70-3	124-PeCB	C108			
74472-39-2	125-PeCB	CS6			
57465-28-8	126-PeCB	U	407000	pg/L	407000
39635-33-1	127-PeCB	U	407000	pg/L	407000
38380-07-3	128-HxCB	C	955000	pg/L	813000

Comments:

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 Q Quantitative Interference; value is estimated
 U Analyte was analyzed for, but not detected above the specified detection limit

PCB Congeners
Certificate of Analysis
Sample Summary

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SDG Number: 3028850
Lab Sample ID: 14883003
Client Sample: 1668A Water
Client ID: 3028850 003
Batch ID: 40573
Run Date: 05/14/2019 18:48
Data File: d14may19a-4
Prep Batch: 40570
Prep Date: 06-MAY-19

Client: ALSI001
Date Collected: 04/17/2019 10:58
Date Received: 04/24/2019 10:15
Method: EPA Method 1668A
Analyst: MLS
Prep Method: SW846 3520C
Prep Aliquot: .246 mL

Project: ALSI00117
Matrix: WATER
Prep Basis: As Received
Instrument: HRP875
Dilution: 1
Prep SOP Ref: CF-OA-E-001

CAS No.	Parname	Qual	Result	Units	PQL
55215-18-4	129-HxCB	C	6150000	pg/L	1230000
52663-66-8	130-HxCB	U	407000	pg/L	407000
61798-70-7	131-HxCB	U	407000	pg/L	407000
38380-05-1	132-HxCB		2240000	pg/L	407000
35694-04-3	133-HxCB	U	407000	pg/L	407000
52704-70-8	134-HxCB	U	407000	pg/L	407000
52744-13-5	135-HxCB	C	1520000	pg/L	813000
38411-22-2	136-HxCB		727000	pg/L	407000
35694-06-5	137-HxCB	U	407000	pg/L	407000
35065-28-2	138-HxCB	C129			
56030-56-9	139-HxCB	CU	813000	pg/L	813000
59291-64-4	140-HxCB	C139			
52712-04-6	141-HxCB		834000	pg/L	407000
41411-61-4	142-HxCB	U	407000	pg/L	407000
68194-15-0	143-HxCB	U	407000	pg/L	407000
68194-14-9	144-HxCB	U	407000	pg/L	407000
74472-40-5	145-HxCB	U	407000	pg/L	407000
51908-16-8	146-HxCB		676000	pg/L	407000
68194-13-8	147-HxCB	C	4170000	pg/L	813000
74472-41-6	148-HxCB	U	407000	pg/L	407000
38380-04-0	149-HxCB	C147			
68194-08-1	150-HxCB	U	407000	pg/L	407000
52663-63-5	151-HxCB	C135			
68194-09-2	152-HxCB	U	407000	pg/L	407000
35065-27-1	153-HxCB	C	3910000	pg/L	813000
60145-22-4	154-HxCB	U	407000	pg/L	407000
33979-03-2	155-HxCB	U	407000	pg/L	407000
38380-08-4	156-HxCB	C	956000	pg/L	813000
69782-90-7	157-HxCB	C156			
74472-42-7	158-HxCB		576000	pg/L	407000
39635-35-3	159-HxCB	U	407000	pg/L	407000
41411-62-5	160-HxCB	U	407000	pg/L	407000

Comments:

C Congener has co-eluters. When Cxxx, refer to congener number xxx for data
Q Quantitative Interference; value is estimated
U Analyte was analyzed for, but not detected above the specified detection limit

PCB Congeners
Certificate of Analysis
Sample Summary

Page 6 of 8

SDG Number: 3028850
 Lab Sample ID: 14883003
 Client Sample: 1668A Water
 Client ID: 3028850 003
 Batch ID: 40573
 Run Date: 05/14/2019 18:48
 Data File: d14may19a-4
 Prep Batch: 40570
 Prep Date: 06-MAY-19

Client: ALSI001
 Date Collected: 04/17/2019 10:58
 Date Received: 04/24/2019 10:15
 Method: EPA Method 1668A
 Analyst: MLS
 Prep Method: SW846 3520C
 Prep Aliquot: .246 mL

Project: ALSI00117
 Matrix: WATER
 Prep Basis: As Received
 Instrument: HRP875
 Dilution: 1
 Prep SOP Ref: CF-OA-E-001

CAS No.	Parname	Qual	Result	Units	PQL
74472-43-8	161-HxCB	U	407000	pg/L	407000
39635-34-2	162-HxCB	U	407000	pg/L	407000
74472-44-9	163-HxCB	C139			
74472-45-0	164-HxCB	U	407000	pg/L	407000
74472-46-1	165-HxCB	U	407000	pg/L	407000
41411-63-6	166-HxCB	C138			
52663-72-6	167-HxCB	U	407000	pg/L	407000
59391-65-5	168-HxCB	C153			
32774-16-6	169-HxCB	U	407000	pg/L	407000
35065-30-6	170-HpCB		594000	pg/L	407000
52663-71-5	171-HpCB	C U	813000	pg/L	813000
52663-74-8	172-HpCB	U	407000	pg/L	407000
68194-16-1	173-HpCB	C171			
38411-25-5	174-HpCB		697000	pg/L	407000
40186-70-7	175-HpCB	U	407000	pg/L	407000
52663-65-7	176-HpCB	U	407000	pg/L	407000
52663-70-4	177-HpCB	U	407000	pg/L	407000
52663-67-9	178-HpCB	U	407000	pg/L	407000
52663-64-6	179-HpCB	U	407000	pg/L	407000
35065-29-3	180-HpCB	C	1470000	pg/L	813000
74472-47-2	181-HpCB	U	407000	pg/L	407000
60145-23-5	182-HpCB	U	407000	pg/L	407000
52663-69-1	183-HpCB	C U	813000	pg/L	813000
74472-48-3	184-HpCB	U	407000	pg/L	407000
52713-05-7	185-HpCB	C183			
74472-49-4	186-HpCB	U	407000	pg/L	407000
52663-68-0	187-HpCB		833000	pg/L	407000
74487-85-7	188-HpCB	U	407000	pg/L	407000
39635-31-9	189-HpCB	U	407000	pg/L	407000
41411-64-7	190-HpCB	U	407000	pg/L	407000
74472-50-7	191-HpCB	U	407000	pg/L	407000
74472-51-8	192-HpCB	U	407000	pg/L	407000

Comments:

C Congener has co-eluters. When Cxxx, refer to congener number xxx for data
 Q Quantitative Interference; value is estimated
 U Analyte was analyzed for, but not detected above the specified detection limit

PCB Congeners
Certificate of Analysis
Sample Summary

SDG Number: 3028850
 Lab Sample ID: 14883003
 Client Sample: 1668A Water
 Client ID: 3028850 003
 Batch ID: 40573
 Run Date: 05/14/2019 18:48
 Data File: d14may19a-4
 Prep Batch: 40570
 Prep Date: 06-MAY-19

Client: ALST001
 Date Collected: 04/17/2019 10:58
 Date Received: 04/24/2019 10:15
 Method: EPA Method 1668A
 Analyst: MLS
 Prep Method: SW846 3520C
 Prep Aliquot: 246 mL

Project: ALST00117
 Matrix: WATER
 Prep Basis: As Received
 Instrument: HRP875
 Dilution: 1
 Prep SOP Ref: CF-QA-E-001

CAS No.	Parname	Qual	Result	Units	PQL
69782-91-8	193-HpCB	C180			
35694-09-7	194-OcCB		462000	pg/L	407000
52663-78-2	195-OcCB	U	407000	pg/L	407000
42740-50-1	196-OcCB	U	407000	pg/L	407000
33091-17-7	197-OcCB	CU	813000	pg/L	813000
68194-17-2	198-OcCB	CU	813000	pg/L	813000
52663-75-9	199-OcCB	C198			
52663-73-7	200-OcCB	C197			
40186-71-8	201-OcCB	U	407000	pg/L	407000
2136-99-4	202-OcCB	U	407000	pg/L	407000
52663-76-0	203-OcCB		427000	pg/L	407000
74472-52-9	204-OcCB	U	407000	pg/L	407000
74472-53-0	205-OcCB	U	407000	pg/L	407000
40186-72-9	206-NoCB		661000	pg/L	407000
52663-79-3	207-NoCB	U	407000	pg/L	407000
52663-77-1	208-NoCB	U	407000	pg/L	407000
2051-24-3	209-DeCB	U	407000	pg/L	407000
1336-26-3	Total PCB Congeners		143000000	pg/L	407000

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery %	Acceptable Limits
13C-1-MoCB		7340000	8130000	pg/L	90.3	(15%-150%)
13C-3-MoCB		7150000	8130000	pg/L	87.9	(15%-150%)
13C-4-DiCB	Q	5780000	8130000	pg/L	71.1	(25%-150%)
13C-15-DiCB		8140000	8130000	pg/L	100	(25%-150%)
13C-19-TrCB		7490000	8130000	pg/L	92.1	(25%-150%)
13C-37-TrCB		8790000	8130000	pg/L	108	(25%-150%)
13C-54-TeCB		7860000	8130000	pg/L	96.7	(25%-150%)
13C-77-TeCB		7780000	8130000	pg/L	95.7	(25%-150%)
13C-81-TeCB		8200000	8130000	pg/L	101	(25%-150%)
13C-104-PeCB		8240000	8130000	pg/L	101	(25%-150%)
13C-105-PeCB		6620000	8130000	pg/L	81.4	(25%-150%)
13C-114-PeCB		6770000	8130000	pg/L	83.2	(25%-150%)
13C-118-PeCB		6970000	8130000	pg/L	85.7	(25%-150%)
13C-123-PeCB		7560000	8130000	pg/L	92.9	(25%-150%)
13C-126-PeCB		5430000	8130000	pg/L	66.7	(25%-150%)
13C-155-HxCB		9960000	8130000	pg/L	122	(25%-150%)
13C-156-HxCB	C	12600000	16300000	pg/L	77.3	(25%-150%)
13C-157-HxCB	C 156L					
13C-167-HxCB		6640000	8130000	pg/L	81.7	(25%-150%)
13C-169-HxCB		5430000	8130000	pg/L	66.8	(25%-150%)
13C-188-HpCB		12100000	8130000	pg/L	149	(25%-150%)
13C-189-HpCB		8350000	8130000	pg/L	103	(25%-150%)

PCB Congeners
Certificate of Analysis
Sample Summary

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SDG Number: 3028850
 Lab Sample ID: 14883003
 Client Sample: 1668A Water
 Client ID: 3028850 003
 Batch ID: 40573
 Run Date: 05/14/2019 18:48
 Data File: d14may19a-4
 Prep Batch: 40570
 Prep Date: 06-MAY-19

Client: ALS1001
 Date Collected: 04/17/2019 10:58
 Date Received: 04/24/2019 10:15
 Method: EPA Method 1668A
 Analyst: MLS
 Prep Method: SW846 3520C
 Prep Aliquot: .246 mL

Project: ALS100117
 Matrix: WATER
 Prep Basis: As Received
 Instrument: HRP875
 Dilution: 1
 Prep SOP Ref: CF-OA-E-001

CAS No.	Parname	Qual	Result	Units	PQL		
Surrogate/Tracer recovery		Qual	Result	Nominal	Units	Recovery %	Acceptable Limits
13C-303-OCB			8880000	8130000	pg/L	109	(25%-150%)
13C-305-OCB			8560000	8130000	pg/L	105	(25%-150%)
13C-306-NoCB			9250000	8130000	pg/L	114	(25%-150%)
13C-308-NoCB			8290000	8130000	pg/L	102	(25%-150%)
13C-309-DeCB			70900	8130000	pg/L	0.872	(25%-150%)
13C-38-TrCB			8210000	8130000	pg/L	101	(30%-135%)
13C-111-PeCB			6600000	8130000	pg/L	81.2	(30%-135%)
13C-178-HpCB			6470000	8130000	pg/L	79.6	(30%-135%)

Comments:

- C Congener has co-eluters. When Cxxx, refer to congener number xxx for data
 Q Quantitative Interference; value is estimated
 U Analyte was analyzed for, but not detected above the specified detection limit

Quality Control Summary

PCB Congeners
Surrogate Recovery Report

SDG Number: 3028850

Matrix Type: LIQUID

Sample ID	Client ID	Surrogate	QUAL	Recovery (%)	Acceptance Limits
12023765	LCS for batch 40570	13C-1-MoCB		44.8	(15%-140%)
		13C-3-MoCB		44.7	(15%-140%)
		13C-4-DiCB		43.0	(30%-140%)
		13C-15-DiCB		57.2	(30%-140%)
		13C-19-TiCB		46.4	(30%-140%)
		13C-37-TiCB		75.8	(30%-140%)
		13C-54-TeCB		55.0	(30%-140%)
		13C-77-TeCB		72.1	(30%-140%)
		13C-81-TeCB		75.4	(30%-140%)
		13C-104-PeCB		70.6	(30%-140%)
		13C-105-PeCB		79.8	(30%-140%)
		13C-114-PeCB		80.0	(30%-140%)
		13C-118-PeCB		79.6	(30%-140%)
		13C-123-PeCB		83.6	(30%-140%)
		13C-126-PeCB		75.7	(30%-140%)
		13C-155-HxCB		65.0	(30%-140%)
		13C-156-HxCB	C C156L	76.6	(30%-140%)
		13C-157-HxCB			
		13C-167-HxCB		78.7	(30%-140%)
		13C-169-HxCB		78.2	(30%-140%)
		13C-188-HpCB		65.5	(30%-140%)
		13C-189-HpCB		79.4	(30%-140%)
		13C-202-OcCB		62.3	(30%-140%)
		13C-205-OcCB		88.1	(30%-140%)
		13C-206-NoCB		85.4	(30%-140%)
		13C-208-NoCB		75.2	(30%-140%)
		13C-209-DeCB		78.0	(30%-140%)
		13C-28-TiCB		71.5	(40%-125%)
		13C-111-PeCB		76.4	(40%-125%)
		13C-178-HpCB		76.9	(40%-125%)
12023766	LCS D for batch 40570	13C-1-MoCB		44.9	(15%-140%)
		13C-3-MoCB		44.7	(15%-140%)
		13C-4-DiCB		42.0	(30%-140%)
		13C-15-DiCB		52.1	(30%-140%)
		13C-19-TiCB		45.5	(30%-140%)
		13C-37-TiCB		66.7	(30%-140%)
		13C-54-TeCB		50.9	(30%-140%)
		13C-77-TeCB		63.0	(30%-140%)
		13C-81-TeCB		65.2	(30%-140%)
		13C-104-PeCB		63.8	(30%-140%)
		13C-105-PeCB		69.8	(30%-140%)
		13C-114-PeCB		70.4	(30%-140%)
		13C-118-PeCB		69.5	(30%-140%)
		13C-123-PeCB		72.7	(30%-140%)
		13C-126-PeCB		65.3	(30%-140%)
		13C-155-HxCB		58.5	(30%-140%)
		13C-156-HxCB	C C156L	67.0	(30%-140%)
		13C-157-HxCB			
		13C-167-HxCB		69.9	(30%-140%)
		13C-169-HxCB		68.4	(30%-140%)
		13C-188-HpCB		56.9	(30%-140%)
		13C-189-HpCB		68.6	(30%-140%)

PCB Congeners

Surrogate Recovery Report

SDG Number: 3028850

Matrix Type: LIQUID

Sample ID	Client ID	Surrogate	QUAL	Recovery (%)	Acceptance Limits
12023766	LC&D for batch 40570	13C-202-OcCB		54.0	(30%-140%)
		13C-205-OcCB		78.0	(30%-140%)
		13C-206-NoCB		75.8	(30%-140%)
		13C-208-NoCB		66.1	(30%-140%)
		13C-209-DeCB		69.6	(30%-140%)
		13C-28-TiCB		65.5	(40%-125%)
		13C-111-PeCB		67.3	(40%-125%)
		13C-178-HpCB		67.8	(40%-125%)
12023764	MB for batch 40570	13C-1-MoCB		39.2	(15%-150%)
		13C-3-MoCB		41.3	(15%-150%)
		13C-4-DiCB		38.8	(25%-150%)
		13C-15-DiCB		53.5	(25%-150%)
		13C-19-TiCB		43.6	(25%-150%)
		13C-37-TiCB		67.9	(25%-150%)
		13C-54-TeCB		51.4	(25%-150%)
		13C-77-TeCB		61.5	(25%-150%)
		13C-81-TeCB		63.6	(25%-150%)
		13C-104-PeCB		62.5	(25%-150%)
		13C-105-PeCB		68.0	(25%-150%)
		13C-114-PeCB		67.3	(25%-150%)
		13C-118-PeCB		66.8	(25%-150%)
		13C-123-PeCB		70.4	(25%-150%)
		13C-126-PeCB		64.7	(25%-150%)
		13C-155-HxCB		56.4	(25%-150%)
		13C-156-HxCB		65.5	(25%-150%)
		13C-157-HxCB			
		13C-167-HxCB		67.0	(25%-150%)
		13C-169-HxCB		67.6	(25%-150%)
		13C-188-HpCB		55.5	(25%-150%)
		13C-189-HpCB		67.3	(25%-150%)
		13C-202-OcCB		52.5	(25%-150%)
		13C-205-OcCB		74.1	(25%-150%)
		13C-206-NoCB		71.5	(25%-150%)
		13C-208-NoCB		62.7	(25%-150%)
		13C-209-DeCB		64.9	(25%-150%)
		13C-28-TiCB		77.2	(30%-135%)
		13C-111-PeCB		71.0	(30%-135%)
		13C-178-HpCB		70.3	(30%-135%)
14883001	3028850 001	13C-1-MoCB		46.2	D (15%-150%)
		13C-3-MoCB		46.3	D (15%-150%)
		13C-4-DiCB		43.4	D (25%-150%)
		13C-15-DiCB		59.5	D (25%-150%)
		13C-19-TiCB		51.6	D (25%-150%)
		13C-37-TiCB		68.0	D (25%-150%)
		13C-54-TeCB		54.4	D (25%-150%)
		13C-77-TeCB		64.6	D (25%-150%)
		13C-81-TeCB		69.3	D (25%-150%)
		13C-104-PeCB		65.7	D (25%-150%)
		13C-105-PeCB		73.5	D (25%-150%)
		13C-114-PeCB		75.9	D (25%-150%)
		13C-118-PeCB		73.2	D (25%-150%)
			C C156L		

PCB Congeners
Surrogate Recovery Report

SDG Number: 3028850

Matrix Type: LIQUID

Sample ID	Client ID	Surrogate	QUAL	Recovery (%)	Acceptance Limits
14883001	3028850 001	13C-123-PeCB		76.8 D	(25%-150%)
		13C-126-PeCB		71.4 D	(25%-150%)
		13C-155-HxCB		61.6 D	(25%-150%)
		13C-156-HxCB	C	71.6 D	(25%-150%)
		13C-157-HxCB	C156L		
		13C-167-HxCB		73.5 D	(25%-150%)
		13C-169-HxCB		75.0 D	(25%-150%)
		13C-188-HpCB		60.5 D	(25%-150%)
		13C-189-HpCB		72.1 D	(25%-150%)
		13C-202-OcCB		61.8 D	(25%-150%)
		13C-205-OcCB		83.1 D	(25%-150%)
		13C-206-NoCB		83.1 D	(25%-150%)
		13C-208-NoCB		72.8 D	(25%-150%)
		13C-209-DeCB		78.9 D	(25%-150%)
		13C-28-TiCB		98.9 D	(30%-135%)
		13C-111-PeCB		87.2 D	(30%-135%)
		13C-178-HpCB		87.9 D	(30%-135%)
14883002	3028850 002	13C-1-MoCB		41.7 D	(15%-150%)
		13C-3-MoCB		41.0 D	(15%-150%)
		13C-4-DiCB		40.7 D	(25%-150%)
		13C-15-DiCB		49.8 D	(25%-150%)
		13C-19-TiCB		50.5 D	(25%-150%)
		13C-37-TiCB		60.2 D	(25%-150%)
		13C-54-TeCB		45.5 D	(25%-150%)
		13C-77-TeCB		56.0 D	(25%-150%)
		13C-81-TeCB		58.5 D	(25%-150%)
		13C-104-PeCB		52.7 D	(25%-150%)
		13C-105-PeCB		61.4 D	(25%-150%)
		13C-114-PeCB		61.0 D	(25%-150%)
		13C-118-PeCB		61.0 D	(25%-150%)
		13C-123-PeCB		65.2 D	(25%-150%)
		13C-126-PeCB		60.6 D	(25%-150%)
		13C-155-HxCB		50.4 D	(25%-150%)
		13C-156-HxCB	C	60.0 D	(25%-150%)
		13C-157-HxCB	C156L		
		13C-167-HxCB		61.7 D	(25%-150%)
		13C-169-HxCB		64.1 D	(25%-150%)
		13C-188-HpCB		50.5 D	(25%-150%)
		13C-189-HpCB		60.2 D	(25%-150%)
		13C-202-OcCB		50.7 D	(25%-150%)
		13C-205-OcCB		70.1 D	(25%-150%)
		13C-206-NoCB		70.9 D	(25%-150%)
		13C-208-NoCB		59.0 D	(25%-150%)
		13C-209-DeCB		65.1 D	(25%-150%)
		13C-28-TiCB		83.3 D	(30%-135%)
		13C-111-PeCB		74.4 D	(30%-135%)
		13C-178-HpCB		72.8 D	(30%-135%)
14883003	3028850 003	13C-1-MoCB		90.3	(15%-150%)
		13C-3-MoCB		87.9	(15%-150%)
		13C-4-DiCB	Q	71.1	(25%-150%)
		13C-15-DiCB		100	(25%-150%)

PCB Congeners
Surrogate Recovery Report

SDG Number: 3028850

Matrix Type: LIQUID

Sample ID	Client ID	Surrogate	QUAL	Recovery (%)	Acceptance Limits
14883003	3028850 003	13C-19-TiCB		92.1	(25%-150%)
		13C-37-TiCB		108	(25%-150%)
		13C-54-TeCB		96.7	(25%-150%)
		13C-77-TeCB		95.7	(25%-150%)
		13C-81-TeCB		101	(25%-150%)
		13C-104-PeCB		101	(25%-150%)
		13C-105-PeCB		81.4	(25%-150%)
		13C-114-PeCB		83.2	(25%-150%)
		13C-118-PeCB		85.7	(25%-150%)
		13C-123-PeCB		92.9	(25%-150%)
		13C-126-PeCB		66.7	(25%-150%)
		13C-155-HxCB		122	(25%-150%)
		13C-156-HxCB	C C156L	77.3	(25%-150%)
		13C-157-HxCB			
		13C-167-HxCB		81.7	(25%-150%)
		13C-169-HxCB		66.8	(25%-150%)
		13C-188-HpCB		149	(25%-150%)
		13C-189-HpCB		103	(25%-150%)
		13C-202-OcCB		109	(25%-150%)
		13C-205-OcCB		105	(25%-150%)
		13C-206-NcCB		114	(25%-150%)
		13C-208-NcCB		102	(25%-150%)
		13C-209-DeCB		0.872 *	(25%-150%)
		13C-28-TiCB		101	(30%-135%)
		13C-111-PeCB		81.2	(30%-135%)
		13C-178-HpCB		79.6	(30%-135%)

* Recovery outside Acceptance Limits

Column to be used to flag recovery values

D Sample Diluted

PCB Congeners

Page 1 of 2

Quality Control Summary
Spike Recovery Report

SDG Number: 3028850

Sample Type: Laboratory Control Sample

Client ID: LCS for batch 40570

Matrix: WATER

Lab Sample ID: 12023765

Instrument: HRP875

Analysis Date: 05/08/2019 15:29

Dilution: 1

Analyst: MLS

Prep Batch ID: 40570

Batch ID: 40573

CAS No.	Par name	Amount Added pg/L	Spike Conc. pg/L	Recovery %	Acceptance Limits
2051-60-7	LCS 1-MoCB	500	556	111	50-150
2051-62-9	LCS 3-MoCB	500	581	116	50-150
13039-08-8	LCS 4-DiCB	500	538	108	50-150
2050-68-2	LCS 15-DiCB	500	579	116	50-150
38444-73-4	LCS 19-TrCB	500	571	114	50-150
38444-90-5	LCS 37-TrCB	500	551	110	50-150
15968-05-5	LCS 54-TeCB	1000	1090	109	50-150
32598-13-3	LCS 77-TeCB	1000	1050	105	50-150
70362-50-4	LCS 81-TeCB	1000	1020	102	50-150
56538-16-8	LCS 104-PeCB	1000	1100	110	50-150
32598-14-4	LCS 105-PeCB	1000	1190	119	50-150
74473-37-0	LCS 114-PeCB	1000	1190	119	50-150
31508-00-6	LCS 118-PeCB	1000	1140	114	50-150
65510-44-3	LCS 123-PeCB	1000	956	95.6	50-150
57465-28-8	LCS 126-PeCB	1000	1220	122	50-150
33979-03-2	LCS 155-HxCB	1000	1120	112	50-150
38380-08-4	LCS 156-HxCB	2000	2290	115	50-150
69782-90-7	LCS 157-HxCB		C C156		
52663-72-6	LCS 167-HxCB	1000	1150	115	50-150
32774-16-6	LCS 169-HxCB	1000	1130	113	50-150
74487-85-7	LCS 188-HpCB	1000	1040	104	50-150
39635-31-9	LCS 189-HpCB	1000	1100	110	50-150
2136-99-4	LCS 202-OcCB	1500	1600	107	50-150
74472-53-0	LCS 205-OcCB	1500	1480	98.6	50-150
40186-72-9	LCS 206-NoCB	1500	1450	96.9	50-150
52663-77-1	LCS 208-NoCB	1500	1680	112	50-150
2051-24-3	LCS 209-DeCB	1500	1570	105	50-150

PCB Congeners
Quality Control Summary
Spike Recovery Report

Page 2 of 2

SDG Number: 3028850
Client ID: LCSD for batch 40570
Lab Sample ID: 12023766
Instrument: HRP875
Analyst: MLS

Sample Type: Laboratory Control Sample Duplicate
Matrix: WATER
Analysis Date: 05/08/2019 16:38 Dilution: 1
Prep Batch ID: 40570
Batch ID: 40573

CAS No.	Parname	Amount Added pg/L	Spike Conc. pg/L	Recovery %	Acceptance Limits	RPD %	Acceptance Limits
2051-60-7	LCSD 1-MoCB	500	564	113	50-150	1.50	0-30
2051-62-9	LCSD 3-MoCB	500	577	115	50-150	0.680	0-30
13029-08-8	LCSD 4-DiCB	500	535	107	50-150	0.470	0-30
2050-68-2	LCSD 15-DiCB	500	600	120	50-150	3.53	0-30
38444-73-4	LCSD 19-TrCB	500	539	112	50-150	3.09	0-30
38444-90-5	LCSD 37-TrCB	500	555	111	50-150	0.662	0-30
15908-05-5	LCSD 54-TeCB	1000	1090	109	50-150	0.725	0-30
32598-13-3	LCSD 77-TeCB	1000	1050	105	50-150	0.377	0-30
70362-50-4	LCSD 81-TeCB	1000	1040	104	50-150	1.82	0-30
56538-16-8	LCSD 104-PeCB	1000	1120	112	50-150	2.11	0-30
32598-14-4	LCSD 105-PeCB	1000	1190	119	50-150	0.057	0-30
74472-37-0	LCSD 114-PeCB	1000	1190	119	50-150	0.696	0-30
31508-00-6	LCSD 118-PeCB	1000	1150	115	50-150	1.33	0-30
65510-44-3	LCSD 123-PeCB	1000	969	96.9	50-150	1.38	0-30
57465-38-8	LCSD 126-PeCB	1000	1230	123	50-150	0.772	0-30
33979-03-2	LCSD 155-HxCB	1000	1110	111	50-150	0.641	0-30
38380-08-4	LCSD 156-HxCB	2000	2310	115	50-150	0.654	0-30
69782-90-7	LCSD 157-HxCB						
52663-72-6	LCSD 167-HxCB	1000	1140	114	50-150	0.820	0-30
32774-16-6	LCSD 169-HxCB	1000	1140	114	50-150	0.932	0-30
74487-85-7	LCSD 188-HpCB	1000	1070	107	50-150	2.33	0-30
39635-31-9	LCSD 189-HpCB	1000	1110	111	50-150	0.694	0-30
2136-99-4	LCSD 202-OcCB	1500	1610	107	50-150	0.179	0-30
74472-53-0	LCSD 205-OcCB	1500	1470	98.2	50-150	0.409	0-30
40186-72-9	LCSD 206-NoCB	1500	1460	97.5	50-150	0.585	0-30
52663-77-1	LCSD 208-NoCB	1500	1690	112	50-150	0.176	0-30
2051-24-3	LCSD 209-DeCB	1500	1570	104	50-150	0.219	0-30

Method Blank Summary

Page 1 of 1

SDC Number: 3028850
Client ID: MB for batch 40570
Lab Sample ID: 12023764
Column:

Client: ALS1001
Instrument ID: HRP875
Prep Date: 06-MAY-19

Matrix: WATER
Data File: d07may19b_3-5
Analyzed: 05/08/19 17:47

This method blank applies to the following samples and quality control samples:

Client Sample ID	Lab Sample ID	File ID	Date Analyzed	Time Analyzed
01 LCS for batch 40570	12023765	d07may19b_3-3	05/08/19	1529
02 LCS D for batch 40570	12023766	d07may19b_3-4	05/08/19	1638
03 3028850 001	14883001	d13may19a-5	05/13/19	1700
04 3028850 002	14883002	d13may19a-6	05/13/19	1809
05 3028850 003	14883003	d14may19a-4	05/14/19	1848

PCB Congeners
Certificate of Analysis
Sample Summary

Page 1 of 8

SDG Number: 3028850
Lab Sample ID: 12023764
Client Sample: QC for batch 40570
Client ID: MB for batch 40570
Batch ID: 40573
Run Date: 05/08/2019 17:47
Data File: d07may19b_3-5
Prep Batch: 40570
Prep Date: 06-MAY-19

Client: ALSI001

Method: EPA Method 1668A
Analyst: MLS

Prep Method: SW846 3520C
Prep Aliquot: 1000 mL

Project: ALSI00117
Matrix: WATER

Prep Basis: As Received

Instrument: HRP875
Dilution: 1
Prep SOP Ref: CF-OA-E-001

CAS No.	Parname	Qual	Result	Units	PQL
2051-60-7	1-MoCB	U	100	pg/L	100
2051-61-8	2-MoCB	U	100	pg/L	100
2051-62-9	3-MoCB	U	100	pg/L	100
13029-08-8	4-DiCB	U	100	pg/L	100
16605-91-7	5-DiCB	U	100	pg/L	100
25569-80-6	6-DiCB	U	100	pg/L	100
33284-50-3	7-DiCB	U	100	pg/L	100
34883-43-7	8-DiCB	U	100	pg/L	100
34883-39-1	9-DiCB	U	100	pg/L	100
33146-45-1	10-DiCB	U	100	pg/L	100
2050-67-1	11-DiCB	U	100	pg/L	100
2974-92-7	12-DiCB	CU	200	pg/L	200
2974-90-5	13-DiCB	C12			
34883-41-5	14-DiCB	U	100	pg/L	100
2050-68-2	15-DiCB	U	100	pg/L	100
38444-78-9	16-TrCB	U	100	pg/L	100
37680-66-3	17-TrCB	U	100	pg/L	100
37680-65-2	18-TrCB	CU	200	pg/L	200
38444-73-4	19-TrCB	U	100	pg/L	100
38444-84-7	20-TrCB	CU	200	pg/L	200
55702-46-0	21-TrCB	CU	200	pg/L	200
38444-85-8	22-TrCB	U	100	pg/L	100
55720-44-0	23-TrCB	U	100	pg/L	100
55702-45-9	24-TrCB	U	100	pg/L	100
55713-37-3	25-TrCB	U	100	pg/L	100
38444-81-4	26-TrCB	CU	200	pg/L	200
38444-76-7	27-TrCB	U	100	pg/L	100
7012-37-5	28-TrCB	C20			
15862-07-4	29-TrCB	C26			
35693-93-6	30-TrCB	C18			
16606-03-3	31-TrCB	U	100	pg/L	100
38444-77-8	32-TrCB	U	100	pg/L	100

Comments:

C Congener has co-eluters. When Cxxx, refer to congener number xxx for data
J Value is estimated
U Analyte was analyzed for, but not detected above the specified detection limit

PCB Congeners
Certificate of Analysis
Sample Summary

SDG Number: 3028850
 Lab Sample ID: 12023764
 Client Sample: QC for batch 40570
 Client ID: MB for batch 40570
 Batch ID: 40573
 Run Date: 05/08/2019 17:47
 Data File: d07may19b_3-5
 Prep Batch: 40570
 Prep Date: 06-MAY-19

Client: ALS1001

 Method: EPA Method 1668A
 Analyst: MLS

 Prep Method: SW846 3520C
 Prep Aliquot: 1000 mL

Project: ALS100117
 Matrix: WATER

 Prep Basis: As Received

 Instrument: HRP875
 Dilution: 1
 Prep SOP Ref: CF-OA-E-001

CAS No.	Parname	Qual	Result	Units	PQL
38444-86-9	33-TrCB	C31			
37680-68-5	34-TrCB	U	100	pg/L	100
37680-69-6	35-TrCB	U	100	pg/L	100
38444-87-0	36-TrCB	U	100	pg/L	100
38444-90-5	37-TrCB	U	100	pg/L	100
53555-66-1	38-TrCB	U	100	pg/L	100
38444-88-1	39-TrCB	U	100	pg/L	100
38444-93-8	40-TeCB	C U	300	pg/L	300
52663-59-9	41-TeCB	U	100	pg/L	100
36559-22-5	42-TeCB	U	100	pg/L	100
70362-46-8	43-TeCB	U	100	pg/L	100
41464-39-5	44-TeCB	C U	300	pg/L	300
70362-45-7	45-TeCB	C U	300	pg/L	300
41464-47-5	46-TeCB	U	100	pg/L	100
2437-79-8	47-TeCB	C44			
70362-47-9	48-TeCB	U	100	pg/L	100
41464-40-8	49-TeCB	C U	300	pg/L	300
62796-65-0	50-TeCB	C U	300	pg/L	300
68194-04-7	51-TeCB	C45			
35693-99-3	52-TeCB	U	100	pg/L	100
41464-41-9	53-TeCB	C50			
15968-05-5	54-TeCB	U	100	pg/L	100
74338-24-2	55-TeCB	U	100	pg/L	100
41464-43-1	56-TeCB	U	100	pg/L	100
70424-67-8	57-TeCB	U	100	pg/L	100
41464-49-7	58-TeCB	U	100	pg/L	100
74472-33-6	59-TeCB	C U	300	pg/L	300
33025-41-1	60-TeCB	U	100	pg/L	100
33284-53-6	61-TeCB	C U	400	pg/L	400
54230-22-7	62-TeCB	C59			
74472-34-7	63-TeCB	U	100	pg/L	100
52663-58-8	64-TeCB	U	100	pg/L	100

Comments:

C Congener has co-eluters. When Cxxx, refer to congener number xxx for data

J Value is estimated

U Analyte was analyzed for, but not detected above the specified detection limit

**PCB Congeners
Certificate of Analysis
Sample Summary**

SDG Number: 3028850
Lab Sample ID: 12023764
Client Sample: QC for batch 40570
Client ID: MB for batch 40570
Batch ID: 40573
Run Date: 05/08/2019 17:47
Data File: d07may19b_3-5
Prep Batch: 40570
Prep Date: 06-MAY-19

Client: ALS1001

Method: EPA Method 1668A
Analyst: MLS

Prep Method: SW846 3520C
Prep Aliquot: 1000 mL

Project: ALS100117
Matrix: WATER

Prep Basis: As Received

Instrument: HRP875
Dilution: 1
Prep SOP Ref: CF-OA-E-001

CAS No.	Parname	Qual	Result	Units	PQL
33284-54-7	65-TeCB	C44			
32598-10-0	66-TeCB	U	100	pg/L	100
73575-53-8	67-TeCB	U	100	pg/L	100
73575-52-7	68-TeCB	U	100	pg/L	100
60233-24-1	69-TeCB	C49			
32598-11-1	70-TeCB	C61			
41464-46-4	71-TeCB	C40			
41464-42-0	72-TeCB	U	100	pg/L	100
74338-23-1	73-TeCB	U	100	pg/L	100
32690-93-0	74-TeCB	C61			
32598-12-2	75-TeCB	C59			
70362-48-0	76-TeCB	C61			
32598-13-3	77-TeCB	U	100	pg/L	100
70362-49-1	78-TeCB	U	100	pg/L	100
41464-48-6	79-TeCB	U	100	pg/L	100
33284-52-5	80-TeCB	U	100	pg/L	100
70362-50-4	81-TeCB	U	100	pg/L	100
52663-62-4	82-TeCB	U	100	pg/L	100
60145-20-2	83-TeCB	U	100	pg/L	100
52663-60-2	84-TeCB	U	100	pg/L	100
65510-45-4	85-TeCB	CU	300	pg/L	300
55312-69-1	86-TeCB	CU	600	pg/L	600
38380-02-8	87-TeCB	C86			
55215-17-3	88-TeCB	CU	200	pg/L	200
73575-57-2	89-TeCB	U	100	pg/L	100
68194-07-0	90-TeCB	CU	300	pg/L	300
68194-05-8	91-TeCB	C88			
52663-61-3	92-TeCB	U	100	pg/L	100
73575-56-1	93-TeCB	CU	200	pg/L	200
73575-55-0	94-TeCB	U	100	pg/L	100
38379-99-6	95-TeCB	U	100	pg/L	100
73575-54-9	96-TeCB	U	100	pg/L	100

Comments:

C Congener has co-eluters. When Cxxx, refer to congener number xxx for data

J Value is estimated

U Analyte was analyzed for, but not detected above the specified detection limit

**PCB Congeners
Certificate of Analysis
Sample Summary**

SDG Number: 3028850
Lab Sample ID: 12023764
Client Sample: QC for batch 40570
Client ID: MB for batch 40570
Batch ID: 40573
Run Date: 05/08/2019 17:47
Data File: d07may19b_3-5
Prep Batch: 40570
Prep Date: 06-MAY-19

Client: ALS1001

Method: EPA Method 1668A
Analyst: MLS

Prep Method: SW846 3520C
Prep Aliquot: 1000 mL

Project: ALS100117
Matrix: WATER

Prep Basis: As Received
Instrument: HRP875
Dilution: 1
Prep SOP Ref: CF-OA-E-001

CAS No.	Parname	Qual	Result	Units	PQL
41464-51-1	97-PeCB	CS6			
60233-25-2	98-PeCB	CU	200	pg/L	200
38380-01-7	99-PeCB	U	100	pg/L	100
39485-83-1	100-PeCB	C93			
37680-73-2	101-PeCB	C90			
68194-06-9	102-PeCB	C98			
60145-21-3	103-PeCB	U	100	pg/L	100
56558-16-8	104-PeCB	U	100	pg/L	100
32598-14-4	105-PeCB	U	100	pg/L	100
70434-69-0	106-PeCB	U	100	pg/L	100
70434-68-9	107-PeCB	U	100	pg/L	100
70363-41-3	108-PeCB	CU	200	pg/L	200
74472-35-8	109-PeCB	CS6			
38380-03-9	110-PeCB	CU	200	pg/L	200
39635-32-0	111-PeCB	U	100	pg/L	100
74472-36-9	112-PeCB	U	100	pg/L	100
68194-10-5	113-PeCB	C90			
74472-37-0	114-PeCB	U	100	pg/L	100
74472-38-1	115-PeCB	C110			
18259-05-7	116-PeCB	CS5			
68194-11-6	117-PeCB	CS5			
31508-00-6	118-PeCB	U	100	pg/L	100
56558-17-9	119-PeCB	CS6			
68194-12-7	120-PeCB	U	100	pg/L	100
56558-18-0	121-PeCB	U	100	pg/L	100
76842-07-4	122-PeCB	U	100	pg/L	100
65510-44-3	123-PeCB	U	100	pg/L	100
70434-70-3	124-PeCB	C108			
74472-39-2	125-PeCB	CS6			
57465-28-8	126-PeCB	U	100	pg/L	100
39635-33-1	127-PeCB	U	100	pg/L	100
38380-07-3	128-HxCB	CU	200	pg/L	200

Comments:

C Congener has co-eluters. When Cxxx, refer to congener number xxx for data

J Value is estimated

U Analyte was analyzed for, but not detected above the specified detection limit

PCB Congeners
Certificate of Analysis
Sample Summary

Page 5 of 8

SDG Number: 3028850
Lab Sample ID: 12023764
Client Sample: QC for batch 40570
Client ID: MB for batch 40570
Batch ID: 40573
Run Date: 05/08/2019 17:47
Data File: d07may19b_3-5
Prep Batch: 40570
Prep Date: 06-MAY-19

Client: ALS1001

Method: EPA Method 1668A
Analyst: MLS

Prep Method: SW846 3520C
Prep Aliquot: 1000 mL

Project: ALS100117
Matrix: WATER

Prep Basis: As Received

Instrument: HRP875
Dilution: 1
Prep SOP Ref: CF-OA-E-001

CAS No.	Parname	Qual	Result	Units	PQL
55215-18-4	129-HxCB	CU	300	pg/L	300
52663-66-8	130-HxCB	U	100	pg/L	100
61798-70-7	131-HxCB	U	100	pg/L	100
38380-05-1	132-HxCB	U	100	pg/L	100
35694-04-3	133-HxCB	U	100	pg/L	100
52704-70-8	134-HxCB	U	100	pg/L	100
52744-13-5	135-HxCB	CU	300	pg/L	300
38411-22-2	136-HxCB	U	100	pg/L	100
35694-06-5	137-HxCB	U	100	pg/L	100
35065-28-2	138-HxCB	C139			
56030-56-9	139-HxCB	CU	300	pg/L	300
59291-64-4	140-HxCB	C139			
52713-04-6	141-HxCB	U	100	pg/L	100
41411-61-4	142-HxCB	U	100	pg/L	100
68194-15-0	143-HxCB	U	100	pg/L	100
68194-14-9	144-HxCB	U	100	pg/L	100
74472-40-5	145-HxCB	U	100	pg/L	100
51908-16-8	146-HxCB	U	100	pg/L	100
68194-13-8	147-HxCB	CU	300	pg/L	300
74472-41-6	148-HxCB	U	100	pg/L	100
38380-04-0	149-HxCB	C147			
68194-08-1	150-HxCB	U	100	pg/L	100
52663-63-5	151-HxCB	C135			
68194-09-2	152-HxCB	U	100	pg/L	100
35065-27-1	153-HxCB	CU	300	pg/L	300
60145-22-4	154-HxCB	U	100	pg/L	100
33979-03-2	155-HxCB	U	100	pg/L	100
38380-08-4	156-HxCB	CU	300	pg/L	300
69782-90-7	157-HxCB	C156			
74472-42-7	158-HxCB	U	100	pg/L	100
39635-35-3	159-HxCB	U	100	pg/L	100
41411-62-5	160-HxCB	U	100	pg/L	100

Comments:

C Congener has co-eluters. When Cxxx, refer to congener number xxx for data

J Value is estimated

U Analyte was analyzed for, but not detected above the specified detection limit

PCB Congeners
Certificate of Analysis
Sample Summary

Page 6 of 8

SDG Number: 3028850
Lab Sample ID: 12023764
Client Sample: QC for batch 40570
Client ID: MB for batch 40570
Batch ID: 40573
Run Date: 05/08/2019 17:47
Data File: d07may19b_3-5
Prep Batch: 40570
Prep Date: 06-MAY-19

Client: ALS1001

Method: EPA Method 1668A
Analyst: MLS

Prep Method: SW846 3520C
Prep Aliquot: 1000 mL

Project: ALS100117
Matrix: WATER

Prep Basis: As Received

Instrument: HRP875
Dilution: 1
Prep SOP Ref: CF-OA-E-001

CAS No.	Parname	Qual	Result	Units	PQL
74472-43-8	161-HxCB	U	100	pg/L	100
39635-34-2	162-HxCB	U	100	pg/L	100
74472-44-9	163-HxCB	C129			
74472-45-0	164-HxCB	U	100	pg/L	100
74472-46-1	165-HxCB	U	100	pg/L	100
41411-63-6	166-HxCB	C128			
52663-72-6	167-HxCB	U	100	pg/L	100
59291-65-5	168-HxCB	C153			
32774-16-6	169-HxCB	U	100	pg/L	100
35065-30-6	170-HpCB	U	100	pg/L	100
52663-71-5	171-HpCB	CU	200	pg/L	200
52663-74-8	172-HpCB	U	100	pg/L	100
68194-16-1	173-HpCB	C171			
38411-25-5	174-HpCB	U	100	pg/L	100
40186-70-7	175-HpCB	U	100	pg/L	100
52663-65-7	176-HpCB	U	100	pg/L	100
52663-70-4	177-HpCB	U	100	pg/L	100
52663-67-9	178-HpCB	U	100	pg/L	100
52663-64-6	179-HpCB	U	100	pg/L	100
35065-29-3	180-HpCB	CU	200	pg/L	200
74472-47-2	181-HpCB	U	100	pg/L	100
60145-23-5	182-HpCB	U	100	pg/L	100
52663-69-1	183-HpCB	CU	200	pg/L	200
74472-48-2	184-HpCB	U	100	pg/L	100
52713-05-7	185-HpCB	C183			
74472-49-4	186-HpCB	U	100	pg/L	100
52663-68-0	187-HpCB	U	100	pg/L	100
74487-85-7	188-HpCB	U	100	pg/L	100
39635-31-9	189-HpCB	U	100	pg/L	100
41411-64-7	190-HpCB	U	100	pg/L	100
74472-50-7	191-HpCB	U	100	pg/L	100
74472-51-8	192-HpCB	U	100	pg/L	100

Comments:

C Congener has co-eluters. When Cxxx, refer to congener number xxx for data

J Value is estimated

U Analyte was analyzed for, but not detected above the specified detection limit

PCB Congeners
Certificate of Analysis
Sample Summary

Page 7 of 8

SDG Number: 3028850
 Lab Sample ID: 12023764
 Client Sample: QC for batch 40570
 Client ID: MB for batch 40570
 Batch ID: 40573
 Run Date: 05/08/2019 17:47
 Data File: d07may19b_3-5
 Prep Batch: 40570
 Prep Date: 06-MAY-19

Client: ALS1001
 Method: EPA Method 1668A
 Analyst: MLS
 Prep Method: SW846 3520C
 Prep Aliquot: 1000 mL

Project: ALS100117
 Matrix: WATER
 Prep Basis: As Received
 Instrument: HRP875
 Dilution: 1
 Prep SOP Ref: CF-OA-E-001

CAS No.	Parname	Qual	Result	Units	PQL
69783-91-8	193-HpCB	C180			
35694-09-7	194-OCB	U	100	pg/L	100
52663-78-2	195-OCB	U	100	pg/L	100
42740-50-1	196-OCB	U	100	pg/L	100
33091-17-7	197-OCB	CU	300	pg/L	300
68194-17-2	198-OCB	CU	300	pg/L	300
52663-75-9	199-OCB	C198			
52663-73-7	200-OCB	C197			
40186-71-8	201-OCB	U	100	pg/L	100
2136-99-4	203-OCB	U	100	pg/L	100
52663-76-0	203-OCB	U	100	pg/L	100
74472-52-9	204-OCB	U	100	pg/L	100
74472-53-0	205-OCB	U	100	pg/L	100
40186-72-9	206-NoCB	U	100	pg/L	100
52663-79-3	207-NoCB	U	100	pg/L	100
52663-77-1	208-NoCB	U	100	pg/L	100
2051-24-3	209-DeCB	U	100	pg/L	100
1336-36-3	Total PCB Congeners	U	100	pg/L	100

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery %	Acceptable Limits
13C-1-MoCB		784	2000	pg/L	39.2	(15%-150%)
13C-3-MoCB		826	2000	pg/L	41.3	(15%-150%)
13C-4-DiCB		777	2000	pg/L	38.8	(15%-150%)
13C-15-DiCB		1070	2000	pg/L	53.5	(15%-150%)
13C-19-TrCB		872	2000	pg/L	43.6	(15%-150%)
13C-37-TrCB		1360	2000	pg/L	67.9	(15%-150%)
13C-54-TeCB		1030	2000	pg/L	51.4	(15%-150%)
13C-77-TeCB		1230	2000	pg/L	61.5	(15%-150%)
13C-81-TeCB		1270	2000	pg/L	63.6	(15%-150%)
13C-104-PeCB		1250	2000	pg/L	62.5	(15%-150%)
13C-105-PeCB		1360	2000	pg/L	68.0	(15%-150%)
13C-114-PeCB		1350	2000	pg/L	67.3	(15%-150%)
13C-118-PeCB		1340	2000	pg/L	66.8	(15%-150%)
13C-133-PeCB		1410	2000	pg/L	70.4	(15%-150%)
13C-126-PeCB		1390	2000	pg/L	64.7	(15%-150%)
13C-155-HxCB		1130	2000	pg/L	56.4	(15%-150%)
13C-156-HxCB	C	2620	4000	pg/L	65.5	(15%-150%)
13C-157-HxCB	C156L					
13C-167-HxCB		1340	2000	pg/L	67.0	(15%-150%)
13C-169-HxCB		1350	2000	pg/L	67.6	(15%-150%)
13C-188-HpCB		1110	2000	pg/L	55.5	(15%-150%)
13C-189-HpCB		1350	2000	pg/L	67.3	(15%-150%)

**PCB Congeners
Certificate of Analysis
Sample Summary**

SDG Number: 3028850
Lab Sample ID: 12023764
Client Sample: QC for batch 40570
Client ID: MB for batch 40570
Batch ID: 40573
Run Date: 05/08/2019 17:47
Data File: d07may19b_3-5
Prep Batch: 40570
Prep Date: 06-MAY-19

Client: ALS1001

Method: EPA Method 1668A
Analyst: MLS

Prep Method: SW846 3520C
Prep Aliquot: 1000 mL

Project: ALS100117
Matrix: WATER

Prep Basis: As Received

Instrument: HRP875
Dilution: 1
Prep SOP Ref: CF-OA-E-001

CAS No.	Parname	Qual	Result	Units	PQL		
Surrogate/Tracer recovery		Qual	Result	Nominal	Units	Recovery-%	Acceptable Limits
13C-203-OCB			1050	2000	pg/L	52.5	(25%-150%)
13C-205-OCB			1480	2000	pg/L	74.1	(25%-150%)
13C-206-NOCB			1430	2000	pg/L	71.5	(25%-150%)
13C-208-NOCB			1250	2000	pg/L	62.7	(25%-150%)
13C-209-DeCB			1300	2000	pg/L	64.9	(25%-150%)
13C-28-TrCB			1540	2000	pg/L	77.2	(30%-135%)
13C-111-PeCB			1420	2000	pg/L	71.0	(30%-135%)
13C-178-HpCB			1410	2000	pg/L	70.3	(30%-135%)

Comments:

- C Congener has co-eluters. When Cxxx, refer to congener number xxx for data
J Value is estimated
U Analyte was analyzed for, but not detected above the specified detection limit

**PCB Congeners
Certificate of Analysis
Sample Summary**

SDG Number: 3028850
Lab Sample ID: 12023765
Client Sample: QC for batch 40570
Client ID: LCS for batch 40570
Batch ID: 40573
Run Date: 05/08/2019 15:29
Data File: d07may19b_3-3
Prep Batch: 40570
Prep Date: 06-MAY-19

Client: ALSI001

Method: EPA Method 1668A
Analyst: MLS

Prep Method: SW846 3520C
Prep Aliquot: 1000 mL

Project: ALSI00117
Matrix: WATER

Prep Basis: As Received

Instrument: HRP875
Dilution: 1
Prep SOP Ref: CF-OA-E-001

CAS No.	Parent Name	Qual	Result	Units	PQL
2051-60-7	1-MoCB		556	pg/L	100
2051-62-9	3-MoCB		581	pg/L	100
13039-08-8	4-DiCB		538	pg/L	100
2050-68-2	15-DiCB		579	pg/L	100
38444-73-4	19-TrCB		571	pg/L	100
38444-90-5	37-TrCB		551	pg/L	100
15968-05-5	54-TeCB		1090	pg/L	100
32598-13-3	77-TeCB		1050	pg/L	100
70363-50-4	81-TeCB		1020	pg/L	100
56558-16-8	104-PeCB		1100	pg/L	100
32598-14-4	105-PeCB		1190	pg/L	100
74473-37-0	114-PeCB		1190	pg/L	100
31508-00-6	118-PeCB		1140	pg/L	100
65510-44-3	123-PeCB		956	pg/L	100
57465-28-8	126-PeCB		1220	pg/L	100
33979-03-2	155-HxCB		1120	pg/L	100
38380-08-4	156-HxCB	C	2290	pg/L	200
69782-90-7	157-HxCB	C156			
52663-73-6	167-HxCB		1150	pg/L	100
32774-16-6	169-HxCB		1130	pg/L	100
74487-85-7	188-HpCB		1040	pg/L	100
39635-31-9	189-HpCB		1100	pg/L	100
2136-99-4	202-OcCB		1600	pg/L	100
74473-53-0	205-OcCB		1480	pg/L	100
40186-73-9	206-NoCB		1450	pg/L	100
52663-77-1	208-NoCB		1680	pg/L	100
2051-24-3	209-DeCB		1570	pg/L	100

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery %	Acceptable Limits
13C-1-MoCB		897	2000	pg/L	44.8	(15%-140%)
13C-3-MoCB		893	2000	pg/L	44.7	(15%-140%)
13C-4-DiCB		861	2000	pg/L	43.0	(30%-140%)
13C-15-DiCB		1140	2000	pg/L	57.2	(30%-140%)
13C-19-TrCB		929	2000	pg/L	46.4	(30%-140%)
13C-37-TrCB		1520	2000	pg/L	75.8	(30%-140%)
13C-54-TeCB		1100	2000	pg/L	55.0	(30%-140%)
13C-77-TeCB		1440	2000	pg/L	72.1	(30%-140%)
13C-81-TeCB		1510	2000	pg/L	75.4	(30%-140%)
13C-104-PeCB		1410	2000	pg/L	70.6	(30%-140%)
13C-105-PeCB		1600	2000	pg/L	79.8	(30%-140%)
13C-114-PeCB		1600	2000	pg/L	80.0	(30%-140%)
13C-118-PeCB		1590	2000	pg/L	79.6	(30%-140%)

PCB Congeners
Certificate of Analysis
Sample Summary

SDG Number: 3028850
 Lab Sample ID: 12023765
 Client Sample: QC for batch 40570
 Client ID: LCS for batch 40570
 Batch ID: 40573
 Run Date: 05/08/2019 15:29
 Data File: d07may19b_3-3
 Prep Batch: 40570
 Prep Date: 06-MAY-19

Client: ALSI001

 Method: EPA Method 1668A
 Analyst: MLS

 Prep Method: SW846 3520C
 Prep Aliquot: 1000 mL

Project: ALSI00117
 Matrix: WATER

 Prep Basis: As Received

 Instrument: HRP875
 Dilution: 1
 Prep SOP Ref: CF-OA-E-001

CAS No.	Parname	Qual	Result	Units	PQL		
Surrogate/Tracer recovery		Qual	Result	Nominal	Units	Recovery-%	Acceptable Limits
13C-123-Pe CB			1670	2000	pg/L	83.6	(30%-140%)
13C-126-Pe CB			1510	2000	pg/L	75.7	(30%-140%)
13C-155-HxCB			1300	2000	pg/L	65.0	(30%-140%)
13C-156-HxCB	C	3060	4000	pg/L	76.6	(30%-140%)	
13C-157-HxCB	C 156L						
13C-167-HxCB			1570	2000	pg/L	78.7	(30%-140%)
13C-169-HxCB			1560	2000	pg/L	78.3	(30%-140%)
13C-188-Hp CB			1310	2000	pg/L	65.5	(30%-140%)
13C-189-Hp CB			1590	2000	pg/L	79.4	(30%-140%)
13C-203-Oc CB			1250	2000	pg/L	62.3	(30%-140%)
13C-205-Oc CB			1760	2000	pg/L	88.1	(30%-140%)
13C-206-No CB			1710	2000	pg/L	85.4	(30%-140%)
13C-208-No CB			1500	2000	pg/L	75.3	(30%-140%)
13C-209-De CB			1560	2000	pg/L	78.0	(30%-140%)
13C-28-Tr CB			1430	2000	pg/L	71.5	(40%-125%)
13C-111-Pe CB			1530	2000	pg/L	76.4	(40%-125%)
13C-178-Hp CB			1540	2000	pg/L	76.9	(40%-125%)

Comments:

C Congener has co-eluters. When Cxxx, refer to congener number xxx for data

**PCB Congeners
Certificate of Analysis
Sample Summary**

SDG Number: 3028850
Lab Sample ID: 12023766
Client Sample: QC for batch 40570
Client ID: LCSD for batch 40570
Batch ID: 40573
Run Date: 05/08/2019 16:38
Data File: d07may19b_3-4
Prep Batch: 40570
Prep Date: 06-MAY-19

Client: ALSI001

Method: EPA Method 1668A
Analyst: MLS

Prep Method: SW846 3520C
Prep Aliquot: 1000 mL

Project: ALSI00117
Matrix: WATER

Prep Basis: As Received

Instrument: HRP875
Dilution: 1
Prep SOP Ref: CF-OA-E-001

CAS No.	Parname	Qual	Result	Units	PQL
2051-60-7	1-MoCB		564	pg/L	100
2051-62-9	3-MoCB		577	pg/L	100
13029-09-8	4-DiCB		535	pg/L	100
2050-68-2	15-DiCB		600	pg/L	100
38444-73-4	19-TrCB		559	pg/L	100
38444-90-5	37-TrCB		555	pg/L	100
15968-05-5	54-TeCB		1090	pg/L	100
32598-13-3	77-TeCB		1050	pg/L	100
70362-50-4	81-TeCB		1040	pg/L	100
56558-16-8	104-PeCB		1120	pg/L	100
32598-14-4	105-PeCB		1190	pg/L	100
74472-37-0	114-PeCB		1190	pg/L	100
31508-00-6	118-PeCB		1150	pg/L	100
65510-44-3	123-PeCB		969	pg/L	100
57465-28-8	126-PeCB		1230	pg/L	100
33979-03-2	155-HxCB		1110	pg/L	100
38380-08-4	156-HxCB	C	2310	pg/L	200
69782-90-7	157-HxCB	C156			
52663-72-6	167-HxCB		1140	pg/L	100
32774-16-6	169-HxCB		1140	pg/L	100
74487-85-7	188-HpCB		1070	pg/L	100
39635-31-9	189-HpCB		1110	pg/L	100
2136-99-4	202-OCB		1610	pg/L	100
74472-52-0	205-OCB		1470	pg/L	100
40186-72-9	206-NOCB		1460	pg/L	100
52663-77-1	208-NOCB		1690	pg/L	100
2051-24-3	209-DeCB		1570	pg/L	100

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery %	Acceptable Limits
13C-1-MoCB		898	2000	pg/L	44.9	(15%-140%)
13C-3-MoCB		894	2000	pg/L	44.7	(15%-140%)
13C-4-DiCB		839	2000	pg/L	42.0	(30%-140%)
13C-15-DiCB		1040	2000	pg/L	52.1	(30%-140%)
13C-19-TrCB		911	2000	pg/L	45.5	(30%-140%)
13C-37-TrCB		1330	2000	pg/L	66.7	(30%-140%)
13C-54-TeCB		1020	2000	pg/L	50.9	(30%-140%)
13C-77-TeCB		1260	2000	pg/L	63.0	(30%-140%)
13C-81-TeCB		1300	2000	pg/L	65.2	(30%-140%)
13C-104-PeCB		1280	2000	pg/L	63.8	(30%-140%)
13C-105-PeCB		1400	2000	pg/L	69.8	(30%-140%)
13C-114-PeCB		1410	2000	pg/L	70.4	(30%-140%)
13C-118-PeCB		1390	2000	pg/L	69.5	(30%-140%)

**PCB Congeners
Certificate of Analysis
Sample Summary**

SDG Number: 3028850
Lab Sample ID: 12023766
Client Sample: QC for batch 40570
Client ID: LCSD for batch 40570
Batch ID: 40573
Run Date: 05/08/2019 16:38
Data File: d07may19b_3-4
Prep Batch: 40570
Prep Date: 06-MAY-19

Client: ALSI001

Method: EPA Method 1668A
Analyst: MLS

Prep Method: SW846 3520C
Prep Aliquot: 1000 mL

Project: ALSI00117
Matrix: WATER

Prep Basis: As Received

Instrument: HRP875
Dilution: 1
Prep SOP Ref: CF-OA-E-001

CAS No.	Parname	Qual	Result	Units	PQL		
Surrogate/Tracer recovery		Qual	Result	Nominal	Units	Recovery-%	Acceptable Limits
13C-123-Pe CB			1450	2000	pg/L	72.7	(30%-140%)
13C-126-Pe CB			1310	2000	pg/L	65.3	(30%-140%)
13C-155-Hx CB			1170	2000	pg/L	58.5	(30%-140%)
13C-156-Hx CB	C		2680	4000	pg/L	67.0	(30%-140%)
13C-157-Hx CB	C 156L						
13C-167-Hx CB			1400	2000	pg/L	69.9	(30%-140%)
13C-169-Hx CB			1370	2000	pg/L	68.4	(30%-140%)
13C-188-Hp CB			1140	2000	pg/L	56.9	(30%-140%)
13C-189-Hp CB			1370	2000	pg/L	68.6	(30%-140%)
13C-203-Oc CB			1080	2000	pg/L	54.0	(30%-140%)
13C-205-Oc CB			1560	2000	pg/L	78.0	(30%-140%)
13C-206-No CB			1520	2000	pg/L	75.8	(30%-140%)
13C-208-No CB			1320	2000	pg/L	66.1	(30%-140%)
13C-209-De CB			1390	2000	pg/L	69.6	(30%-140%)
13C-28-Tr CB			1310	2000	pg/L	65.5	(40%-125%)
13C-111-Pe CB			1350	2000	pg/L	67.3	(40%-125%)
13C-178-Hp CB			1360	2000	pg/L	67.8	(40%-125%)

Comments:

C Congener has co-eluters. When Cxxx, refer to congener number xxx for data

DMR Data

Joseph Smith & Sons, Inc - JOSEPH SMITH & SONS, INC - MDR000654

1/1/2010 - 7/3/2019

Monitoring Period End Date	Perm Feature ID	Limit Set Designator	Monitoring Location Code	Limit Season ID	Parameter Code	Parameter Desc	Statistical Base Short Desc	Limit Unit Short Desc	Limit Value	DMR Value	DMR Unit Short Desc	NODI Code
09/30/2015	001	N1	1	0	00530	Solids, total suspended	QTRR AVG	mg/L	7.		mg/L	
09/30/2015	001	N1	1	0	00980	Iron, total recoverable	QTRR AVG	mg/L	1.		mg/L	
09/30/2015	001	N1	1	0	01042	Copper, total [as Cu]	QTRR AVG	mg/L	.39		mg/L	
09/30/2015	001	N1	1	0	01051	Lead, total [as Pb]	QTRR AVG	mg/L	.061		mg/L	
09/30/2015	001	N1	1	0	01092	Zinc, total [as Zn]	QTRR AVG	mg/L	.21		mg/L	
09/30/2015	001	N1	1	0	01104	Aluminum, total recoverable	QTRR AVG	mg/L	.79		mg/L	
09/30/2015	001	N1	1	0	81017	Chemical Oxygen Demand [COD]	QTRR AVG	mg/L	100.		mg/L	
12/31/2015	001	N1	1	0	00530	Solids, total suspended	QTRR AVG	mg/L	5.		mg/L	
12/31/2015	001	N1	1	0	00980	Iron, total recoverable	QTRR AVG	mg/L	.16		mg/L	
12/31/2015	001	N1	1	0	01042	Copper, total [as Cu]	QTRR AVG	mg/L	.01		mg/L	
12/31/2015	001	N1	1	0	01051	Lead, total [as Pb]	QTRR AVG	mg/L	.002		mg/L	
12/31/2015	001	N1	1	0	01092	Zinc, total [as Zn]	QTRR AVG	mg/L	.029		mg/L	
12/31/2015	001	N1	1	0	01104	Aluminum, total recoverable	QTRR AVG	mg/L	.1		mg/L	
12/31/2015	001	N1	1	0	81017	Chemical Oxygen Demand [COD]	QTRR AVG	mg/L	6.4		mg/L	
03/31/2016	001	N1	1	0	00530	Solids, total suspended	QTRR AVG	mg/L	3.2		mg/L	
03/31/2016	001	N1	1	0	00980	Iron, total recoverable	QTRR AVG	mg/L	.72		mg/L	
03/31/2016	001	N1	1	0	01042	Copper, total [as Cu]	QTRR AVG	mg/L	.017		mg/L	
03/31/2016	001	N1	1	0	01051	Lead, total [as Pb]	QTRR AVG	mg/L	.005		mg/L	
03/31/2016	001	N1	1	0	01092	Zinc, total [as Zn]	QTRR AVG	mg/L	.041		mg/L	
03/31/2016	001	N1	1	0	01104	Aluminum, total recoverable	QTRR AVG	mg/L	.66		mg/L	
03/31/2016	001	N1	1	0	81017	Chemical Oxygen Demand [COD]	QTRR AVG	mg/L	19.		mg/L	
06/30/2016	001	N1	1	0	00530	Solids, total suspended	QTRR AVG	mg/L	6.		mg/L	

06/30/2016	001	N1	1	0	00980	Iron, total recoverable	QTR AVG	mg/L	.33	mg/L	
06/30/2016	001	N1	1	0	01042	Copper, total [as Cu]	QTR AVG	mg/L	.01	mg/L	
06/30/2016	001	N1	1	0	01051	Lead, total [as Pb]	QTR AVG	mg/L	.002	mg/L	
06/30/2016	001	N1	1	0	01092	Zinc, total [as Zn]	QTR AVG	mg/L	.03	mg/L	
06/30/2016	001	N1	1	0	01104	Aluminum, total recoverable	QTR AVG	mg/L	.34	mg/L	
06/30/2016	001	N1	1	0	81017	Chemical Oxygen Demand [COD]	QTR AVG	mg/L	6.4	mg/L	
09/30/2016	001	N1	1	0	00530	Solids, total suspended	QTR AVG	mg/L	6.	mg/L	
09/30/2016	001	N1	1	0	00980	Iron, total recoverable	QTR AVG	mg/L	.65	mg/L	
09/30/2016	001	N1	1	0	01042	Copper, total [as Cu]	QTR AVG	mg/L	.015	mg/L	
09/30/2016	001	N1	1	0	01051	Lead, total [as Pb]	QTR AVG	mg/L	.0087	mg/L	
09/30/2016	001	N1	1	0	01092	Zinc, total [as Zn]	QTR AVG	mg/L	.071	mg/L	
09/30/2016	001	N1	1	0	01104	Aluminum, total recoverable	QTR AVG	mg/L	.45	mg/L	
09/30/2016	001	N1	1	0	81017	Chemical Oxygen Demand [COD]	QTR AVG	mg/L	.29	mg/L	

[illegible]

[illegible]



Maryland Department of Environment
Water and Science Administration
Compliance Program - Western Division
91 Eastern Blvd, Hagerstown, MD 21740
301-665-2850

AI ID: 9165 **Inspector:** Scott A Haines

Site Name: Joseph Smith & Sons, Inc
Facility Address: 2001 Kenilworth Ave, Capitol Heights, MD 20743
County: Prince George's County

Inspection Date: April 16, 2019 **Start Date/Time:** April 16, 2019, 10:00 AM
End Date /Time: April 24, 2019, 03:30 PM

Media Type(s): NPDES Industrial Stormwater

Contact(s): Greg Hazzard
Kelly Boyle
Paul Tharpe
Marc Fuller
John McGarvey

NPDES Industrial Stormwater

Permit / Approval Numbers: 12SR0654A

Site Status: Active

Site Condition: Noncompliance

Recommended Action: Continue Routine Inspection

Inspection Reason: Routine Scheduled

Evidence Collected:
Photos/Videos Taken, Visual Observation

Weather: Overcast, 54°

Inspection Findings:

Maryland Department of the Environment conducted a site inspection on the 16th of the scrap metal processing facility noted above with regards to the general industrial stormwater permit and returned on the 17th to conduct sampling. Upon arriving at the site, we were greeted by Mr. Paul Tharpe who contacted Mr. Kelly Boyle. I was accompanied onsite by MDE Inspector Greg Hazzard who conducted the review and inspection of the "Main Yard" section of the facility on the 16th.

SWPPP and Document Review:

An onsite review of the SWPPP observed the following deficiencies with part III.C.2.c of the permit:

- The site map does not reflect current site conditions with regards to collection, discharge points, active outfalls, storm flows, and potential pollution sources.
- The site map does not note the impairments of Beaverdam Creek.
- The site map does not note the drainage swales/system of Amtrak to the north.
- Past spills or leaks are not noted on the site map.

The SWPPP has a record of no spills or leaks occurring at the facility since 2015 (beginning of permit cycle).

The SWPPP has a deficient spill prevention and response plan. It does not utilize the best technology available. The last spill kit inventory on file was from 2015.

Structural control maintenance notes were only on file from 2015 to 2016.

The site restoration plan meets the permit requirement however, the BMP (electrocoagulant filtration system) is not constructed or purchased. **Per the 12SW Permit, this restoration was to have been completed and functional by 12-31-2018.**

There is no documentation in the SWPPP regarding identical outfalls, however, the site map notes Outfalls 001, 002 as closed and Outfalls 003 and 004 as identical outfalls.

Annual comprehensive site inspections were up-to-date. The June 2016 noted "spills in containment" but this spill was not recorded in the spills and leaks record. It also noted inconsistency with the quarterly visual inspections since 2015. The August 2015 inspection noted that fluids were not being drained from incoming scrap cars.

The routine facility inspections were missing reports from Q3 2018 and Q3 2015. JS&S used MDE FIRs as routine facility inspections for Q3 and Q4 of 2016.

Quarterly visual inspections of stormwater runoff samples had inconsistencies of outfalls collected from/reported on, deficiencies in temporal congruity, and follow-up/comments to observed and recorded qualitative violations.

Review of the benchmark monitoring data and DMRs found that JS&S had omitted Q3 2015 sample data (which had exceedances for Al, Cu, Fe, and Zn) in their October 2016 request to terminate benchmark monitoring, so as to get below benchmark levels for all parameters. Instead, JS&S submitted Q4 2015 through Q3 2016 with their request to the Department. When the first four quarters (Q3 2015-Q2 2016) are averaged an exceedance of copper (Cu) was observed. There is no note of or corrective action documentation in the SWPPP for the Q3 2015, Q1 and Q3 2016 exceedances. NetDMR has two submittals of the DMR of Q4 2015, one on time and the other late. Q1 and Q2 DMRs for 2016 were late having been submitted after the 28th of their respective

Inspection Date: April 16, 2019
Site Name: Joseph Smith & Sons, Inc
Facility Address: 2001 Kenilworth Ave, Capitol Heights, MD 20743

following months. The DMR of Q3 of 2016 was submitted 17 days before the end of Q3 2016 (September 13).

Lastly, per the 12SW Permit, this site is to maintain an incoming vehicle log to ensure the vehicles are being drained of fluids or are empty of fluids upon arrival. While reviewing the Incoming Vehicle Log it was noted that nowhere on the form were fluids mentioned. **MDE recommends adding a section to this form to ensure that the vehicle is empty of fluids or is to be emptied of fluids as soon as possible once it arrives on site.**

Main Yard Site April 16* Inspection Findings:

Inspection of the site was conducted in a counterclockwise route starting at the southwest corner of the site once across the access bridge spanning over Beaverdam Creek.

Ponding water was observed along the southern containment dike with fine solids/sludge deposition trailing over towards the dike's terminus next to the access bridge where water may flow directly into Beaverdam Creek if a significant rainfall occurs. This potential discharge point was not noted as an outfall on the SWPPP site map. There are uncovered stockpiles of process material and fluff in this drainage area.

The containment structure at Outfall 002 was holding dark colored ponded water with an oil sheen and significant amounts of fine solids/sludge. The grounds beyond the containment dike have large deposits of the fine solids/sludge and a scoured flow path is observed leading to a hole in the adjacent super silt fencing from where runoff would discharge directly to Beaverdam Creek. The most current SWPPP site map notes this outfall as "closed." Significant amounts of trash were observed outside of the containment dike and along the banks of Beaverdam Creek.

The "concrete structural control measure" by Outfall 001 was observed holding dark colored ponded water with an oil sheen and significant amounts of fine solids/sludge. The main tipping area and scrap staging area drain to this feature. There were at least 3 lead-acid batteries scattered about in this drainage area, one of which was in an area where there is often standing water and showed signs of sitting under water, having a coating similar to the fine solids/sludge deposits. Outfall 001 is noted as "closed" on the SWPPP site plan.

Both transformers straddling either side of an electrical shed showed signs of former oil leaks with residue on the transformers and oily deposits on the surrounding ground. The electrical shed holds a unit what is labeled as "chiller #3." The floor of this shed was flooded with black and grey liquid. A crack in the back wall of the shed was allowing this liquid to drain towards Beaverdam Creek. The shed and transformers are outside of structural containment and are immediately adjacent to Beaverdam Creek. Runoff from this location would discharge directly to Beaverdam Creek.

The shredder's hydraulic pump room has a roof and a raised floor. The room has a southern opening without doors so weather and liquids may flow in and out unchecked. Next to the southern opening is a 500 gallon oil tank with a roof and secondary containment. Without roofing are two totes holding oil without secondary containment, and two leaking oil coolers set up on the roof over

Inspection Date: April 16, 2019
Site Name: Joseph Smith & Sons, Inc
Facility Address: 2001 Kenilworth Ave, Capitol Heights, MD 20743

the 500 gallon tank. Some of the leaking from the oil coolers was being caught by a bucket placed in front of the 500 gallon tank. The hydraulic pumps in the pump room showed multiple signs of leaking. Each pump rest upon a catch basin, however, the floor beneath the catch basins was significantly coated in oil. This area and the shredder appear to drain towards a process water sump. This sump is outside and was observed to be filled to the point that water was ponding beyond the footprint of the sump. JS&S recycles this water by spraying it into the shredder for cooling. Some of this water and any of its liquid contaminates vaporize when sprayed on the shredder. A lead-acid battery was observed coated in fine solids/sludge next to the sump.

A tote containing a red fluid and a pallet of blue containers holding a corrosive product were stored outside, south of the sump and by the shredder's spare parts area. The unused and equipment parts (as labeled on the SWPPP site map) are stacked against or in some instances ovetop of the containment dike. Standing water against the containment dike was observed in this location as well as fine solids/sludge deposition and significant bank erosion beyond the containment dike. This deposition and erosion is immediately adjacent to Beaverdam Creek. The slope from the containment dike to the creek is extremely steep and any potential discharge from this location would flow directly to Waters of the US.

Coarse fluff piles stored along the southeastern edge of the site are flush up against the containment dike and other containment block structures. The slope of the stockpiles would allow for runoff to drain directly to Beaverdam Creek. A lead-acid battery was observed next to the containment dike. Further towards the railroad spur the fluff was observed on top of and beyond the containment dike.

The containment dike terminates against a #57 stone berm next to the rail spur's bridge over Beaverdam Creek. Another area of standing water was observed along the concrete containment dike in this area. The railroad bed (in the yard and on the southern bank across the creek) and bridge were covered with a significant amount of scrap metal. The runoff from the area east of the rail spur flow directly to Beaverdam Creek.

Going to the north, along the property's edge with Amtrak, fine and coarse fluff stockpiles dominate the area. There is no containment along the northern border of these stockpiles and runoff may discharge directly to the drainage swales on Amtrak's property. The fine fluff pile is well weathered and had dead grass on it in some places indicating it has been there for a long time.

The western portion of the fluff storage area and most of the rail spur drain to a "structural control measure" located next to the shear and torch cutting area. This is a pond, the largest onsite, which does not have a designed outfall. Mr. Boyle states that this pond is pumped over to the process water sump for use as shredder cooling water. The pond water is turbid, has floating solids and an oil sheen. The banks of the pond are gravel which are stained showing former water levels. Two pallets of product containers marked corrosive are stored next to the pond without cover or containment.

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The hydraulic room for the compactor has a significant amount of oil pooled on the floor. The entrances ways to this room are without doors, but have a raised step to contain some volume of leakage. The ground outside the compactor hydraulic room is coated with oil residue and spent absorbent. This area would drain towards the large pond to the east.

The shear area had a large pool of oil by it. When asked if cars are cut here, Mr. Boyle stated that cars are usually sent directly to the shredder and large/heavy equipment is sent to the shear. The shear hydraulic and electrical rooms both have open entrances with an interior berm. A makeshift tanker truck, 2 drums and a tote are kept in the area. The tote and 2 drums are filled with oil and all are without containment or cover. The ground surrounding these two rooms is coated with oil residue. The truck's bed and frame are coated in oil. A sump collects water in between the two rooms and pumps it to the pond to the east. The electrical room had oil pooling on the floor. The hydraulic room also had leaked oil pooled on the floor. There is a basin of water to the immediate south of this area. The water within it was very turbid and had an oil sheen.

The equipment maintenance area contained numerous totes and drums of oils and other petroleum products. All the totes are stored outside, stacked on each other and are without cover. The totes stored around the fuel tanks are within a containment berm, however, this berm is currently filled with petroleum contaminated water. The fuel tanks have their own metal framed secondary containment which was also partially filled with petroleum contaminated water. Multiple vehicles, undergoing maintenance or cannibalism for parts, are stored in the location without cover. A used oil tank was observed kept in a trailer but the trailer floor and ground outside of it was coated in oil residue. Numerous lead-acid batteries were observed scattered outside without cover.

The area east of Outfall 003 contains a full, uncontained oil drum and approximately 6 fork lifts all in some state of disassembly and without cover. The area west of Outfall 003 are fluff stockpiles and what appears to be another torch cutting or welding area. The containment dike at Outfall 003 was completely filled with water. A dumpster is stored in standing water at the southwest ramp to the main office/storage building.

Water and fine solids/sludge collect at a point along the northern containment dike behind the non-ferrous storage building. There is significant fine solids/fluff deposition outside of containment leading down to the Amtrak drainage swales which are filled with the fine solids as well. This area is between Outfall 004 and Outfall 003.

There was a small pile of uncovered/uncontained fluff by Outfall 004, off the west wall of the newest storage building recently constructed.

General Auto Site Inspection Findings April 16th

Mr. Paul Tharpe and I got on the golf cart and began touring the yard. It was noted at several of the storm drains along the road where inlet protection has been added that the protection was not working significantly to filter incoming water. The water was going over the concrete lips and entering the drains while bypassing the filters. While the condition of the protection boom was good, the functionality was not as it should be.

Inspection Date: April 16, 2019
Site Name: Joseph Smith & Sons, Inc
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One of these areas was where ponding had occurred below the white goods scrap storage area. This water was flowing through cracks in the wall, going across the sidewalks, and then going over and around the storm inlet protection. This water was noted to be dark and have an oily sheen on it.

While touring the Eastern Fluff Storage yard, Mr. Tharpe informed me that during the previous visit in 2016 there had been a building that was since removed. The remains of the building included a few electrical panels and a wall. Per Mr. Tharpe, there were plans for the electrical service to be buried and the concrete berm extended to prevent any stormwater from leaving the pad. It was noted in this area there was a lot of trash a debris that had blown along the perimeter.

While entering the area behind the drier, near the creek, it was noted that the concrete berm along the creek area had collapsed and was entering the stream. The area was already staked out for new concrete to be poured and per Mr. Tharpe they were waiting on the weather to improve first.

While we continued through the yard it was noted multiple times that there were oil, paint, and hydraulic buckets sitting outside on the ground, not under any cover. Mr. Tharpe was advised to place these containers under cover and off the ground as soon as possible.

The following day, Mr. Hazzard and I returned to the site to conduct some sampling. Upon arrival, we introduced ourselves in the office and asked for Mr. Fuller or Mr. McGarvey.

General Auto Yard Inspection Findings April 17th:

After visiting the office, Mr. Hazzard and I entered the White Good Scrap area where water was noted to have ponded the previous day. After collecting the first three samples, we were approached by Mr. Fuller and Mr. McGarvey. These gentleman then asked if we would be able to split samples as Joseph Smith & Sons did not have any sample bottles. We were able to provide one sample bottle per sampling location. Only one sample was collected from the General Auto Parts Yard and two other were collected from the yard across the creek.

Main Yard Site April 17th Inspection Findings:

Samples were collected from the Main Yard at two locations; Outfall 003 and the electrical shed between the transformers along Beaverdam Creek.

Outfall 003 had standing water up to the top of the containment dike. The standing water and areas around it had a fine coating of a grey-white dust.

The electrical shed had been cleaned of the liquid which had pooled on the floor. The floor and areas outside and behind the shed were coated in oil absorbent. Shovels and buckets used in the cleanup were next to the stairs leading to the shed. A laborer wearing a Tyvek suit stated that the liquid in the shed was pumped to the process water sump location.

Violations:

The site was found in noncompliance of Title 9 of the Annotated Code of Maryland, Environmental Article, due to the following:

1. Failure to properly implement the required SWPPP with specific violations of parts III.C.2.c, III.C.5, and III.C.8 of the permit.
2. Failure to utilize control measures to limit exposure of pollutants to stormwater or discharge of pollutants to Waters of the US as required by part III.B.1&2 of the permit.
3. Failure to conduct routine facility inspections and quarterly visual inspections of stormwater runoff as required by part V.A of the permit.
4. Failure to properly follow the industry specific benchmark monitoring requirements as required by part V.B of the permit.
5. Failure to properly follow the corrective action requirements stipulated in part IV of the permit.
6. Failure to properly document the identical outfall exception as required by part III.C.5.b.iv of the permit.
7. Failure to implement the site restoration within the proper time frame as required by part III.A.1.e of the permit.
8. Failure to implement the requirements noted in Appendix N.3 of the permit.

Please note that violations of Title 9 may subject the responsible parties to possible penalties or other enforcement actions. MDE recommends the following corrective actions:

- A. Immediately terminate all unauthorized discharges.
- B. Immediately update the SWPPP to reflect all current site conditions and to meet the SWPPP requirements stipulated in part III.C of the permit.
- C. Immediately make improvements to the site's structural controls to meet the requirements of part III.B.1&2 of the permit.
- D. Conduct routine and quarterly visual inspections and execute corrective action protocols when necessary as stipulated in parts IV and V of the permit. Do not use MDE FIRs as routine inspections.
- E. Take immediate steps to begin and complete the implementation of the site's restoration plan.
- F. Immediately contact the Wastewater Permit Program to inquire on how to best address the benchmark monitoring data errors. Conduct and report any future benchmark monitoring as required by part V.B of the permit.

NPDES Industrial Stormwater- Inspection Checklist

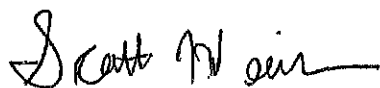
<i>Inspection Item</i>	<i>Status</i>	<i>Comments</i>
1. Does the facility have a discharge permit? [Environment Article §9-323(a)(1-3)]	No Violations Observed	

Inspection Date: April 16, 2019
 Site Name: Joseph Smith & Sons, Inc
 Facility Address: 2001 Kenilworth Ave, Capitol Heights, MD 20743

NPDES Industrial Stormwater- Inspection Checklist

<i>Inspection Item</i>	<i>Status</i>	<i>Comments</i>
2. Has a Stormwater Pollution Prevention Plan (SWPPP) been implemented as required? [40 CFR Part 122 Subpart B Section 122.26.(c)(1)(i)(A-B)]	Out of Compliance	See Findings.
3. Is the number and location of discharge outfalls as described within the Stormwater Pollution Prevention Plan (SWPPP)? [40 CFR Part 122 Subpart B Section 122.26.(c)(1)(i)(A-B)]	Out of Compliance	See Findings.
4. Are identified outfalls representative of stormwater discharges from the site? [40 CFR Part 122 Subpart B Section 122.26.(c)(1)(i)(A-B)]	No Violations Observed	
5. Does the Stormwater Pollution Prevention Plan (SWPPP) require modifications to prevent runoff of pollutants? [40 CFR Part 122 Subpart C Section 122.42.(b)(1-3)]	Out of Compliance	See Findings.
6. Are adequate records being maintained for the quarterly routine facility inspections? [Environment Article §9-261(a)(2)]	Out of Compliance	See Findings.
7. Are adequate records being maintained for the quarterly visual monitoring? [Environment Article §9-261(a)(2)]	Out of Compliance	See Findings.
8. Are adequate records being maintained for the annual comprehensive evaluation? [Environment Article §9-261(a)(2)]	No Violations Observed	
9. Are adequate records being maintained for the employee training who are implementing activities necessary to meet the conditions of the permit? [Environment Article §9-261(a)(2)]	No Violations Observed	
10. If monitoring of benchmark parameters is required, has the permittee performed the required quarterly monitoring? [COMAR 26.08.04.03A(2)]	Not Applicable	No Longer sampling.
11. If monitoring of benchmark parameters is required, has the permittee submitted quarterly benchmark monitoring results electronically within the allotted time? [COMAR 26.08.04.03C(2), 40 CFR Part 127.16]	Not Applicable	
12. Were visible pollutants observed in the receiving waters or in a position likely to pollute water of the State? [Environment Article §9-322]	Out of Compliance	See Findings.
13. If discharges were observed, were samples of the discharge taken? [Environment Article §9-261(c)(1)]	Out of Compliance	Samplings collected on April 17, 2019.

Inspector:



Scott A Haines/Date
 scott.haines@maryland.gov
 301-665-2810

Received by: _____

Inspection Date: April 16, 2019
Site Name: Joseph Smith & Sons, Inc
Facility Address: 2001 Kenilworth Ave, Capitol Heights, MD 20743

Signature/Date

Print Name

Report Provided to:

<input type="checkbox"/> Fax	_____
<input type="checkbox"/> Email	_____
<input type="checkbox"/> Regular Mail	_____
<input type="checkbox"/> Certified Mail	_____

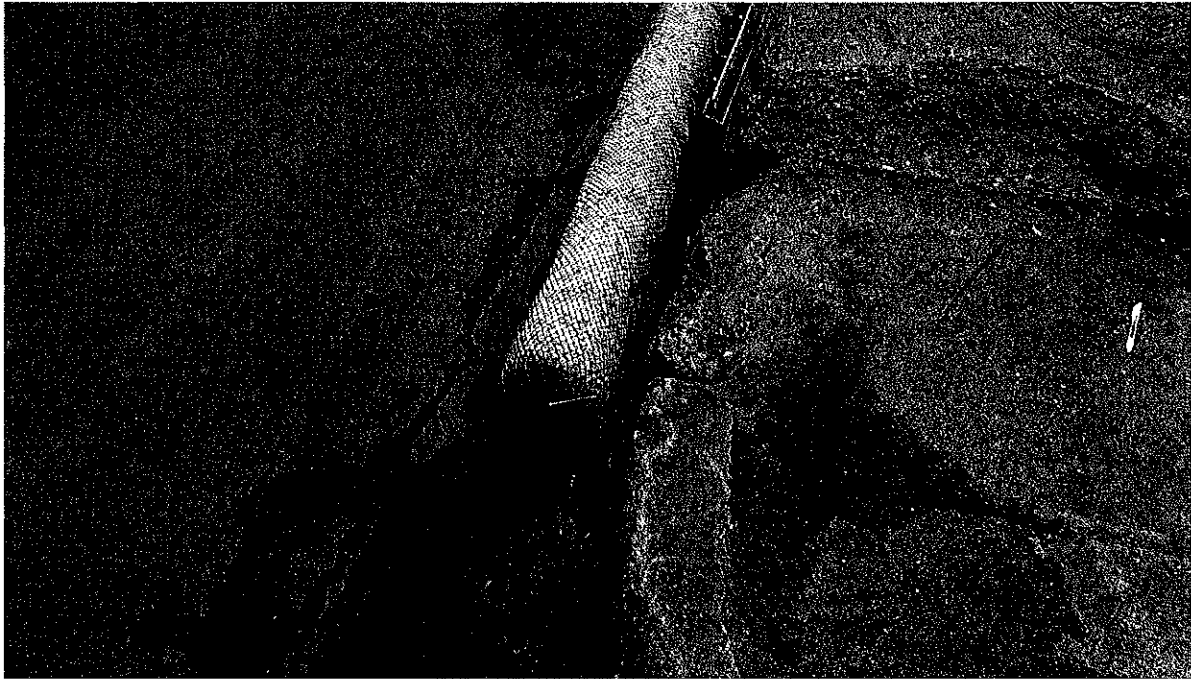


Photo #1: Protective boom not functioning properly. Allowing flow behind and around.



Photo #2: Material tracking and flow was observed migrating from the non-ferrous processing & storage yard.



Photo #3: IBC totes that contained hydraulic oil not covered or capped in the Non-Ferrous processing yard.



Photo #4: Another protective boom allowing flowing behind and around in front of Kang Warehouse.



Photo #5: Same boom allowing flow.



Photo #6: Gap in concrete berm. Trash and other debris located in this area. (Eastern Fluff Storage Yard)



Photo #7: Paint and hydraulic oil buckets that are sitting outside, directly on the ground.



Photo #8: Collapsed concrete berm behind dryer.



Photo #9: Unlabeled container sitting outside, directly on the ground.



Photo #10: More unlabeled drums without cover, sitting directly on the ground.

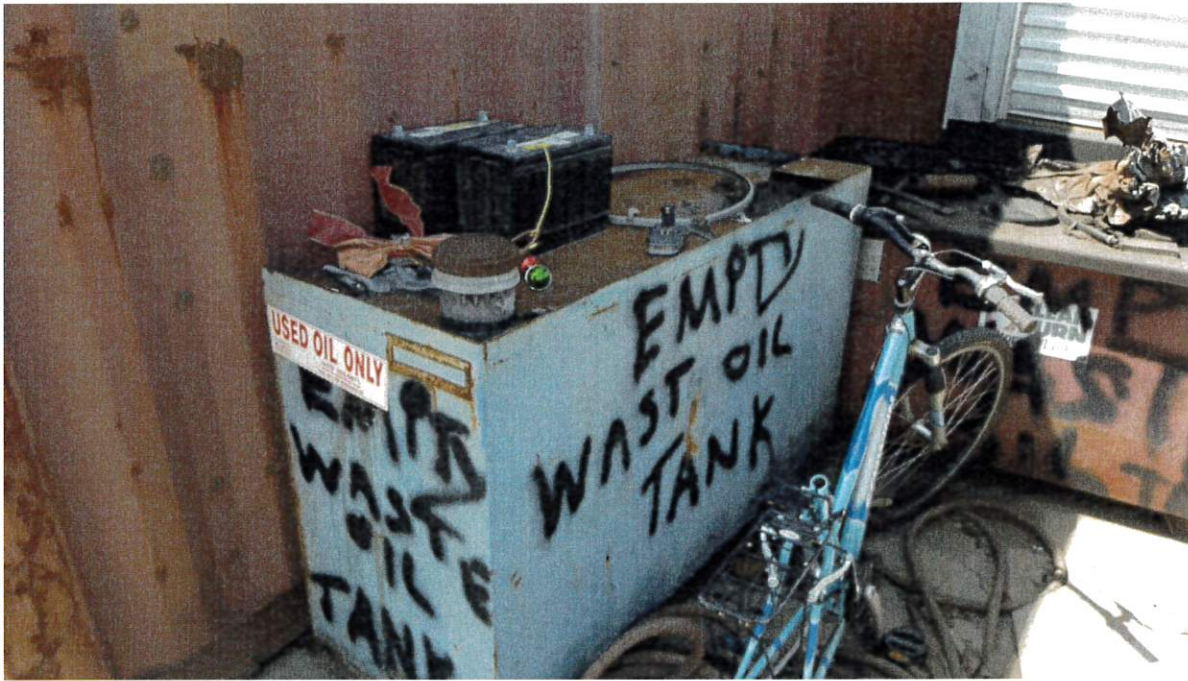


Photo #11: Two waste oil tanks that were uncapped along with two auto batteries. Should be covered or disposed of as soon as possible.



Photo #12: Area ponded directly below White Goods Scrap storage.



Photo #13: Flow coming through wall from ponded area of White Goods Scrap.



Photo #14: Wall that is leaking material from pond in White Goods Scrap storage area. Leaking towards S Street.



Photo #15: More liquid leaking from White Goods Scrap storage area.



Maryland Department of Environment
Water and Science Administration
Compliance Program - Western Division
91 Eastern Blvd, Hagerstown, MD 21740
301-665-2850

AI ID: 9165 **Inspector:** Scott A Haines

Site Name: Joseph Smith & Sons, Inc
Facility Address: 2001 Kenilworth Ave, Capitol Heights, MD 20743
County: Prince George's County

Inspection Date: July 15, 2019 **Start Date/Time:** July 15, 2019, 10:00 AM
End Date /Time: July 15, 2019, 12:35 PM

Media Type(s): NPDES Industrial Stormwater

Contact(s): Greg Hazzard
Kelly Boyle
Paul Tharpe
Derek Denes

NPDES Industrial Stormwater

Permit / Approval Numbers: 12SR0654A

Site Status: Active

Site Condition: Noncompliance

Recommended Action: Continue Routine Inspection

Inspection Reason: Initial Quarterly, Routine Scheduled

Evidence Collected:

Photos/Videos Taken, Visual Observation

Weather: Sunny, 84°

Inspection Findings:

Maryland Department of the Environment conducted a follow-up site inspection on the 15th of the scrap metal processing facility noted above with regards to the general industrial stormwater. Upon arriving at the site, we were greeted by Mr. Paul Tharpe and Mr. Kelly Boyle. I was accompanied onsite by MDE Inspector Greg Hazzard who conducted the review and inspection of the "Main Yard" section of the facility.

SWPPP and Document Review:

Inspection Date: July 15, 2019
Site Name: Joseph Smith & Sons, Inc
Facility Address: 2001 Kenilworth Ave, Capitol Heights, MD 20743

Previous paperwork issues from the last inspection include:

- The site map does not reflect current site conditions with regards to water collection, discharge points, active outfalls, stormflows, and potential pollution sources.
- The site map does not note the impairments of Beaverdam Creek.
- The drainage swales/system of Amtrak to the north.
- Past spills or leaks.
- No incoming vehicle log showing drained vehicles.

For this inspection, these items had been corrected with the exception of the incoming vehicle log. Per Kelly, the individual who had the log, Brian, was not in the office at the time of the inspection. These logs should be kept on site and be available for inspection at all times. Additionally, the Quarterly Visual Monitoring reports were not being copied and kept in both books.

The creek impairments had been added to the Site Map but the updates were not posted in the SWPPP. Per Kelly, they are waiting on James Environmental to provide the updated SWPPP pages which should arrive along with the Annual Comprehensive within the next couple weeks.

The BMP (electrocoagulant filtration system) is not constructed or purchased. **Per the 12SW Permit, this restoration was to have been completed and functional by 12-31-2018.**

There remains no documentation in the SWPPP regarding identical outfalls. The last quarterly visual assessment conducted for the Main Yard occurred only at Outfall 003. This outfall is now currently marked as "closed" on the SWPPP map. A sump and submersible pump have been installed by to direct water towards the process water ponds onsite. No other Main Yard outfalls were sampled for Q2 of 2019.

Main Yard Site July 15th Inspection Findings:

Inspection of the site was conducted in a counterclockwise route starting at the southwest corner of the site once across the access bridge spanning over Beaverdam Creek.

The southern containment dike has been extended so that the dike's terminus no longer lets water freely flow directly into Beaverdam Creek during moderate rainfall.

The grounds beyond the containment dike at Outfall 002 still has large deposits of the fine solids/sludge and a scoured flow path leading to a hole in the adjacent super silt fencing from where runoff would discharge directly to Beaverdam Creek remains.

The shredder's hydraulic pump room, oil tank and oil coolers have been thoroughly cleaned and are dry. The lines to the oiler cooler were not leaking at the time of inspection. The shredder was not operational.

Coarse fluff piles stored along the southeastern edge of the site have been pushed back from the containment dike and other containment block structures. Standing water was observed along the containment dike with approximately 2-3 inches of free board remaining. This area is not noted as an outfall on the SWPPP map.

Inspection Date: July 15, 2019
Site Name: Joseph Smith & Sons, Inc
Facility Address: 2001 Kenilworth Ave, Capitol Heights, MD 20743

The railroad bed (in the yard and on the southern bank across the creek) and bridge were still covered with a significant amount of scrap metal. The runoff from the area east of the rail spur flows directly to Beaverdam Creek.

There remains no containment along the northern border of the northeast stockpiles and runoff may discharge directly to the drainage swales on Amtrak's property.

The hydraulic room for the compactor has been cleaned. A pile of used oil absorbent was left at the entrance of the room.

The shear electrical and pump rooms have been cleaned.

The equipment maintenance area has been cleaned. The containment structures for the fuel tanks have been cleaned.

Outfall 003 now has a sump and submersible pump installed to direct water towards the process water ponds towards the middle of the site.

Fine solids/sludge collect at a point along the northern containment dike behind the non-ferrous storage building. The significant fine solids/fluff deposition outside of containment leading down to the Amtrak drainage swales has been cleaned. This area is between Outfall 004 and Outfall 003.

General Auto Site Inspection Findings July 15th

Mr. Paul Tharpe and I got on the golf cart and began touring the General Auto yard. The previous inspection noted that storm drain inlet protection was not performing properly. For this inspection all of the inlet booms and straw bales were replaced with new. Mr. Tharpe mentioned that he would like to use metal ties to hold the inlet protection tighter to the storm drains.

The area below the white goods scrap storage area, which was previously leaking, had been rebuilt with a new wall. Additionally, a pump had been added to this ponded area to pump water back onto the pile.

The previous inspection showed that the area behind the drier, near the creek, had the concrete berm collapse. This area had still not been repaired and additionally, material had migrated within less than 5 feet from this berm. It was advised that this area be cleaned up. Mr. Tharpe said they are still waiting on the concrete person to form and pour the new berm.

There had been multiple paint and oil buckets stored outside. For this inspection these areas had been cleared up.

Inspection Date: July 15, 2019
 Site Name: Joseph Smith & Sons, Inc
 Facility Address: 2001 Kenilworth Ave, Capitol Heights, MD 20743

Violations:

The site was found in noncompliance of Title 9 of the Annotated Code of Maryland, Environmental Article, due to the following:

1. Failure to properly implement the required SWPPP with specific violations of parts III.C.8 of the permit.
2. Failure to utilize control measures to limit exposure of pollutants to stormwater or discharge of pollutants to Waters of the US as required by part III.B.1&2 of the permit.
1. Failure to conduct quarterly visual inspections of stormwater runoff as required by part V.A.d of the permit.
2. Failure to properly document the identical outfall exception as required by part III.C.5.b.iv of the permit.
3. Failure to implement the site restoration within the proper time frame as required by part III.A.1.e of the permit.

Please note that violations of Title 9 may subject the responsible parties to possible penalties or other enforcement actions. MDE recommends the following corrective actions:

- A. Immediately terminate all unauthorized discharges.
- B. Immediately update the SWPPP to reflect all current site conditions and to meet the SWPPP requirements stipulated in part III.C of the permit.
- C. Continue to make and maintain improvements to the site's structural controls to meet the requirements of part III.B.1&2 of the permit.
- D. Conduct quarterly visual inspections at all outfalls until the identical outfall criteria of the permit has been met to justify otherwise.
- E. Take immediate steps to begin and complete the implementation of the site's restoration plan.

The above items were discussed with Mr. Tharpe and Mr. Boyle and they are aware of them. A follow-up inspection will occur in approximately 30 days to ensure the above items have been corrected.

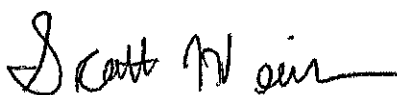
NPDES Industrial Stormwater- Inspection Checklist

<i>Inspection Item</i>	<i>Status</i>	<i>Comments</i>
1. Does the facility have a discharge permit? [Environment Article §9-323(a)(1-3)]	No Violations Observed	
2. Has a Stormwater Pollution Prevention Plan (SWPPP) been implemented as required? [40 CFR Part 122 Subpart B Section 122.26.(c)(1)(i)(A-B)]	Out of Compliance	See Findings.
3. Is the number and location of discharge outfalls as described within the Stormwater Pollution Prevention Plan (SWPPP)? [40 CFR Part 122 Subpart B Section 122.26.(c)(1)(i)(A-B)]	Out of Compliance	See Findings.

Inspection Date: July 15, 2019
 Site Name: Joseph Smith & Sons, Inc
 Facility Address: 2001 Kenilworth Ave, Capitol Heights, MD 20743

NPDES Industrial Stormwater- Inspection Checklist

<i>Inspection Item</i>	<i>Status</i>	<i>Comments</i>
4. Are identified outfalls representative of stormwater discharges from the site? [40 CFR Part 122 Subpart B Section 122.26.(c)(1)(i)(A-B)]	No Violations Observed	
5. Does the Stormwater Pollution Prevention Plan (SWPPP) require modifications to prevent runoff of pollutants? [40 CFR Part 122 Subpart C Section 122.42.(b)(1-3)]	Out of Compliance	See Findings.
6. Are adequate records being maintained for the quarterly routine facility inspections? [Environment Article §9-261(a)(2)]	Out of Compliance	See Findings.
7. Are adequate records being maintained for the quarterly visual monitoring? [Environment Article §9-261(a)(2)]	Out of Compliance	See Findings.
8. Are adequate records being maintained for the annual comprehensive evaluation? [Environment Article §9-261(a)(2)]	No Violations Observed	
9. Are adequate records being maintained for the employee training who are implementing activities necessary to meet the conditions of the permit? [Environment Article §9-261(a)(2)]	No Violations Observed	
10. If monitoring of benchmark parameters is required, has the permittee performed the required quarterly monitoring? [COMAR 26.08.04.03A(2)]	Not Applicable	
11. If monitoring of benchmark parameters is required, has the permittee submitted quarterly benchmark monitoring results electronically within the allotted time? [COMAR 26.08.04.03C(2), 40 CFR Part 127.16]	Not Applicable	
12. Were visible pollutants observed in the receiving waters or in a position likely to pollute water of the State? [Environment Article §9-322]	Out of Compliance	See Findings.
13. If discharges were observed, were samples of the discharge taken? [Environment Article §9-261(c)(1)]	Not Applicable	

Inspector: 
 Scott A Haines/Date
 scott.haines@maryland.gov
 301-665-2810

Received by: _____
 Signature/Date

 Print Name

Report Provided to:

☐ Fax
☐ Email
☐ Regular Mail

Inspection Date: July 15, 2019
Site Name: Joseph Smith & Sons, Inc
Facility Address: 2001 Kenilworth Ave, Capitol Heights, MD 20743

☐ Certified Mail

Joseph Smith And Sons, Inc. Permit to Construct

Post and how to access information

Joseph Smith And Sons, Inc. Permit to Construct

Public Hearing for an After-The-Fact Application for Screening, Ball Mill, and Aluminum Processes

An Air Quality Permit to Construct Application submitted by Joseph Smith and Sons, Inc for the installation of screening operations, ball mill process, and alumin processing located at 4516 S. Street and 2001 Kenilworth Ave, Capitol Heights, MD. was the subject of a Public Hearing held on **May 15, 2019** at 7:00 PM at the Cheverly Community Center, 6401 Forest Road, Cheverly, MD.

The draft permit and application may be viewed at the Fairmount Branch Library, 5904 Kolb Street, Fairmount Heights, MD. Ask for Docket #05-18. The Docket containing the Air Quality Permit Application may be viewed **here**. The Tentative Determination and Fact Sheet may be viewed **here**. The Draft Permit conditions may be viewed **here**. **PLEASE NOTE: THE COMMENT PERIOD HAS BEEN EXTENDED THROUGH AUGUST 19, 2019**

<https://mde.maryland.gov/programs/Permits/AirManagementPermits/Pages/index.aspx>

Please follow these links to access information associated with the permit application.

Docket

<https://mde.maryland.gov/programs/Permits/AirManagementPermits/Documents/Joseph%20Smith%20docket.pdf>

Tentative Determination and Fact Sheet

<https://mde.maryland.gov/programs/Permits/AirManagementPermits/Documents/Joseph%20Smith%20tentative%20dertermination%20and%20factsheet.pdf>

Draft Permit Conditions

<https://mde.maryland.gov/programs/Permits/AirManagementPermits/Documents/Joseph%20Smith%20Draft%20Permit%20to%20Construct%202019.pdf>

Thanks and Take Care,

Laila Riaz
202-258-6167
Mayor
Town of Cheverly

BRIDGETT
MOCK
& ASSOCIATES, P.A.
Certified Public Accountants

June 16, 2019

Mr. David Deutsch
Acting Town Administrator
Town of Cheverly, Maryland
6401 Forest Road
Cheverly, Maryland 20785-3197

Dear Mr. Deutsch:

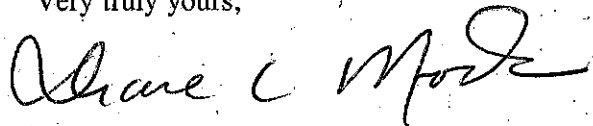
The following is a list of items we request the Town of Cheverly to prepare for the audit of June 30, 2019:

1. A trial balance and detailed general ledger (hard and electronic copies) for the year ended June 30, 2019 for all funds.
2. Journal entries posted during fiscal year 2019.
3. Copies of grant awards the Town participated in during fiscal year 2019.
4. Copies of updates to the Town Charter regarding the financial aspect of the Town.
5. Copies of any updates to the personnel or accounting manuals, chart of accounts, and organizational chart.
6. A copy of the approved budget for fiscal year 2019 and 2020 and amendments adopted for those periods.
7. List of members of the Town Council.
8. Copies of any new contracts and agreements entered into by the Town in fiscal year 2019, including debt, lease agreements, and grant and award agreements.
9. Listing of all bank accounts open during the year which details account numbers and addresses of banks.
10. Copies of bank reconciliations for all cash accounts at June 30, 2019.
11. Copies of June 30, 2019 and July 31, 2019 bank statements for all cash accounts.
12. General ledger detail for cash transactions for the period June 20 - July 10, 2019 for all cash accounts.
13. Copies of June 30, 2019 PNC investment reports for MLGIP funds.
14. Copy of the June 30, 2019 report for Real Estate taxes received from the County.
15. Schedule of property and business taxes assessed and amount collected during fiscal year 2019 and outstanding property taxes at year end.
16. Schedule of grants receivable, other receivables and due from other governments at June 30, 2019.
17. Detail of prepaid expense accounts with supporting invoices at June 30, 2019.
18. Depreciation schedule for fixed asset accounts including additions and retirements at June 30, 2019.
19. Aged schedule of accounts receivable at June 30, 2019.

20. Aged schedule of accounts payable at June 30, 2019.
21. Schedule of accrued salaries and accrued payroll expenses at June 30, 2019.
22. Schedule of accrued compensated absences at June 30, 2019.
23. Reconciliation schedule of the salary expenditures per the general ledger to Forms 941 and copies of payroll reports showing payroll tax detail.
24. Analysis of Police forfeiture account transactions in fiscal year 2019.
25. Support for pension expense, with copy of the invoice from Maryland State Retirement and Pension System for fiscal year ended June 30, 2019 and other correspondence received regarding pension liability.
26. OSVPI payments list from Comptroller of Maryland (Electronic Compnet System).
27. Contact information (address and phone number) to send confirmation letters to the following organizations:
 - Capital One Bank
 - Comcast Cable Communication, Inc.

We are looking forward to working with you. Please call if there are any questions regarding the requested workpapers.

Very truly yours,

A handwritten signature in black ink, appearing to read "Diane L. Mock". The signature is fluid and cursive, with the first name "Diane" being more prominent.

Diane L. Mock, CPA

DLM/hbh

BRIDGETT
MOCK

& ASSOCIATES, P.A.
Certified Public Accountants

June 19, 2019

To the Honorable Mayor and
Members of the Town Council and
Mr. David Deutsch
Acting Town Administrator
Town of Cheverly, Maryland
6401 Forest Road
Cheverly, Maryland 20785-3197

We are pleased to confirm our understanding of the services we are to provide Town of Cheverly, Maryland, for the year ended June 30, 2019. We will audit the financial statements of the governmental activities, the business-type activities, and the general fund, including the related notes to the financial statements, which collectively comprise the basic financial statements of Town of Cheverly, Maryland, as of and for the year ended June 30, 2019. Accounting standards generally accepted in the United States of America provide for certain required supplementary information (RSI), such as management's discussion and analysis (MD&A), to supplement Town of Cheverly, Maryland's basic financial statements. Such information, although not a part of the basic financial statements, is required by the Governmental Accounting Standards Board who considers it to be an essential part of financial reporting for placing the basic financial statements in an appropriate operational, economic, or historical context. As part of our engagement, we will apply certain limited procedures to Town of Cheverly, Maryland's RSI in accordance with auditing standards generally accepted in the United States of America. These limited procedures will consist of inquiries of management regarding the methods of preparing the information and comparing the information for consistency with management's responses to our inquiries, the basic financial statements, and other knowledge we obtained during our audit of the basic financial statements. We will not express an opinion or provide any assurance on the information because the limited procedures do not provide us with sufficient evidence to express an opinion or provide any assurance. The following RSI is required by U.S. generally accepted accounting principles and will be subjected to certain limited procedures, but will not be audited:

- 1) Management's Discussion and Analysis.
- 2) Budgetary Comparison Information.
- 3) Pension Information.

Audit Objective

The objective of our audit is the expression of opinions as to whether your financial statements are fairly presented, in all material respects, in conformity with generally accepted accounting principles. Our audit will be conducted in accordance with auditing standards generally accepted in the United States of America and will include tests of the accounting records and other procedures we consider necessary to enable us to express such opinions. We will issue a written report upon completion of our audit of Town of Cheverly, Maryland's financial statements. Our report will be addressed to the Mayor and Members of the Town Council of Town of Cheverly, Maryland. We cannot provide assurance that unmodified opinions will be expressed. Circumstances may arise in which it is necessary for us to modify our opinions or add emphasis-of-matter or other-matter paragraphs. If our opinions on the financial statements are other than unmodified, we will discuss the reasons with you in advance. If, for any reason, we are unable to complete the audit or are unable to form or have not formed opinions, we may decline to express opinions or may withdraw from this engagement.

Audit Procedures—General

An audit includes examining, on a test basis, evidence supporting the amounts and disclosures in the financial statements; therefore, our audit will involve judgment about the number of transactions to be examined and the areas to be tested. An audit also includes evaluating the appropriateness of accounting policies used and the reasonableness of significant accounting estimates made by management, as well as evaluating the overall presentation of the financial statements. We will plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement, whether from (1) errors, (2) fraudulent financial reporting, (3) misappropriation of assets, or (4) violations of laws or governmental regulations that are attributable to the government or to acts by management or employees acting on behalf of the government.

Because of the inherent limitations of an audit, combined with the inherent limitations of internal control, and because we will not perform a detailed examination of all transactions, there is a risk that material misstatements may exist and not be detected by us, even though the audit is properly planned and performed in accordance with U.S. generally accepted auditing standards. In addition, an audit is not designed to detect immaterial misstatements, or violations of laws or governmental regulations that do not have a direct and material effect on the financial statements. However, we will inform the appropriate level of management of any material errors, fraudulent financial reporting, or misappropriation of assets that come to our attention. We will also inform the appropriate level of management of any violations of laws or governmental regulations that come to our attention, unless clearly inconsequential. Our responsibility as auditors is limited to the period covered by our audit and does not extend to any later periods for which we are not engaged as auditors.

Our procedures will include tests of documentary evidence supporting the transactions recorded in the accounts, and may include tests of the physical existence of inventories, and direct confirmation of receivables and certain other assets and liabilities by correspondence with selected individuals, funding sources, creditors, and financial institutions. We will request written representations from your attorneys as part of the engagement, and they may bill you for responding to this inquiry. At the conclusion of our audit, we will require certain written representations from you about the financial statements and related matters.

Audit Procedures—Internal Control

Our audit will include obtaining an understanding of the government and its environment, including internal control, sufficient to assess the risks of material misstatement of the financial statements and to design the nature, timing, and extent of further audit procedures. An audit is not designed to provide assurance on internal control or to identify deficiencies in internal control. Accordingly, we will express no such opinion. However, during the audit, we will communicate to management and those charged with governance internal control related matters that are required to be communicated under AICPA professional standards.

Audit Procedures—Compliance

As part of obtaining reasonable assurance about whether the financial statements are free of material misstatement, we will perform tests of Town of Cheverly, Maryland's compliance with the provisions of applicable laws, regulations, contracts, and agreements. However, the objective of our audit will not be to provide an opinion on overall compliance and we will not express such an opinion.

Other Services

We will prepare the Uniform Financial Report for the State of Maryland. We will also prepare the financial statements of Town of Cheverly, Maryland, in conformity with U.S. generally accepted accounting principles based on information provided by you. We will perform the services in accordance with applicable professional standards. The other services are limited to the financial statement services previously defined. We, in our sole professional judgment, reserve the right to refuse to perform any procedure or take any action that could be construed as assuming management responsibilities.

Management Responsibilities

Management is responsible for designing, implementing and maintaining effective internal controls relevant to the preparation and fair presentation of financial statements that are free from material misstatement, whether due to fraud or error, including monitoring ongoing activities; for the selection and application of accounting principles; and for the preparation and fair presentation of the financial statements in conformity with U.S. generally accepted accounting principles.

Management is also responsible for making all financial records and related information available to us and for the accuracy and completeness of that information. You are also responsible for providing us with (1) access to all information of which you are aware that is relevant to the preparation and fair presentation of the financial statements, (2) additional information that we may request for the purpose of the audit, and (3) unrestricted access to persons within the government from whom we determine it necessary to obtain audit evidence.

Your responsibilities include adjusting the financial statements to correct material misstatements and confirming to us in the management representation letter that the effects of any uncorrected misstatements aggregated by us during the current engagement and pertaining to the latest period presented are immaterial, both individually and in the aggregate, to the financial statements taken as a whole.

You are responsible for the design and implementation of programs and controls to prevent and detect fraud, and for informing us about all known or suspected fraud affecting the government involving (1) management, (2) employees who have significant roles in internal control, and (3) others where the fraud could have a material effect on the financial statements. Your responsibilities include informing us of your knowledge of any allegations of fraud or suspected fraud affecting the government received in communications from employees, former employees, regulators, or others. In addition, you are responsible for identifying and ensuring that the government complies with applicable laws and regulations.

You agree to assume all management responsibilities for financial statement preparation services and any other nonattest services we provide; oversee the services by designating an individual, preferably from senior management, with suitable skill, knowledge, or experience; evaluate the adequacy and results of the services; and accept responsibility for them.

Engagement Administration, Fees, and Other

We may from time to time, and depending on the circumstances, use third-party service providers in serving your account. We may share confidential information about you with these service providers, but remain committed to maintaining the confidentiality and security of your information. Accordingly, we maintain internal policies, procedures, and safeguards to protect the confidentiality of your personal information. In addition, we will secure confidentiality agreements with all service providers to maintain the confidentiality of your information and we will take reasonable precautions to determine that they have appropriate procedures in place to prevent the unauthorized release of your confidential information to others. In the event that we are unable to secure an appropriate confidentiality agreement, you will be asked to provide your consent prior to the sharing of your confidential information with the third-party service provider. Furthermore, we will remain responsible for the work provided by any such third-party service providers.

We understand that your employees will prepare all cash, accounts receivable, or other confirmations we request and will locate any documents selected by us for testing.

The audit documentation for this engagement is the property of Bridgett, Mock & Associates, P.A. and constitutes confidential information. However, subject to applicable laws and regulations, audit documentation and appropriate individuals will be made available upon request and in a timely manner to Maryland State Legislative Auditor or its designee. We will notify you of any such request. If requested, access to such audit documentation will be provided under the supervision of Bridgett, Mock & Associates, P.A. personnel. Furthermore, upon request, we may provide copies of selected audit documentation to Maryland State Legislative Auditor or its designee. The Maryland State Legislative Auditor or its designee may intend or decide to distribute the copies or information contained therein to others, including other governmental agencies.

We expect to begin our audit on approximately mid August 2019 and to issue our reports no later than October 20, 2019. Diane L. Mock, CPA, is the engagement partner and is responsible for supervising the engagement and signing the report or authorizing another individual to sign it.

Our fee for these services will be at our standard hourly rates plus out-of-pocket costs (such as report reproduction, word processing, postage, travel, copies, telephone, etc.) except that we agree that our gross fee, including expenses will not exceed \$20,500. Our standard hourly rates vary according to the degree of responsibility involved and the experience level of the personnel assigned to your audit. Our invoices for these fees will be rendered each month as work progresses and are payable on presentation. In accordance with our firm policies, work may be suspended if your account becomes 60 days or more overdue and may not be resumed until your account is paid in full. If we elect to terminate our services for nonpayment, our engagement will be deemed to have been completed upon written notification of termination, even if we have not completed our report. You will be obligated to compensate us for all time expended and to reimburse us for all out-of-pocket costs through the date of termination. The above fee is based on anticipated cooperation from your personnel and the assumption that unexpected circumstances will not be encountered during the audit. If significant additional time is necessary, we will discuss it with you and arrive at a new fee estimate before we incur the additional costs.

Our audit engagement ends on delivery of our audit report. Any follow-up services that might be required will be a separate, new engagement. The terms and conditions of that new engagement will be governed by a new, specific engagement letter for that service.

We appreciate the opportunity to be of service to Town of Cheverly, Maryland and believe this letter accurately summarizes the significant terms of our engagement. If you have any questions, please let us know. If you agree with the terms of our engagement as described in this letter, please sign the enclosed copy and return it to us.

Very truly yours,



Diane L. Mock, CPA

RESPONSE:

This letter correctly sets forth the understanding of Town of Cheverly, Maryland.

Management Signature: _____

Title: _____

Date: _____

Governance Signature: _____

Title: _____

Date: _____