NPDES Pretreatment Compliance Sampling Inspection Report

Hyatt Ball Company Ltd.
1 School Street
Fort Edward, New York

NYP004952

February 9, 2023

Report Prepared by:

ROBERT MORRELL
Digitally signed by ROBERT MORRELL
Date: 2023.04.06 11:24:49 -04'00'

Robert Morrell, Geologist
Monitoring Operations Section

Date: _____

Report Approved by:

PHILIP COCUZZA
Digitally signed by PHILIP COCUZZA
Date: 2023.04.06 10:21:15 -04'00'

Philip Cocuzza, Supervisor
Monitoring Operations Section

Date: _____

1.0 OBJECTIVE

On February 9, 2023, at the request of the Water Compliance Branch, the United States Environmental Protection Agency (USEPA) conducted a National Pollutant Discharge Elimination System (NPDES) Pretreatment Compliance Sampling Inspection (CSI) at Hyatt Ball Company in Fort Edward, New York. The objective of the CSI was to gather information necessary to determine compliance with the general pretreatment requirements of 40 CFR Part 403 and the effluent guidelines and standards in 40 CFR Part 414 Subpart E (Thermosetting Resins).

2.0 KEY PARTICIPANTS

Listed below are key inspection participants and contact information, grouped by organization.

U.S. Environmental Protection Agency
Robert Morrell, Geologist, Lead Inspector
Morrell.robert@epa.gov, 732-906-6804
Thuan Tran, Physical Scientist
Tran.thuan@epa.gov, 732-321-4455
Molly Hillenbrand, Life Scientist
Hillenbrand.molly@epa.gov, 732-321-4452

Hyatt Ball Company Ltd.
Robert A. Simpson, President
Ra.simpson@hyattball.com, 518-747-0272
Ray McCasland, Operations Manager, Retired

3.0 FACILITY DESCRIPTION

3.1 General Information

Hyatt Ball Company is located at 1 School Street in Fort Edward, New York. The facility is a manufacturer of phenolic resin balls. The company is categorized as Standard Industrial Classification (SIC) Code 2821 (Plastic Materials, Synthetic Resins, and Nonvulcanizable Elastomers). The facility uses a batch manufacturing process, which varies from four to six batches per year, depending on market demand. There are currently two full-time employees and one part-time employee. Hyatt Ball is also a reseller of other industrial balls that are manufactured elsewhere.

Hyatt Ball Company was formerly known as Albany Hyatt Billiard Ball Company, which was founded in the early 1900's by John Wesley Hyatt, who invented celluloid as an alternative to ivory. The company eventually was purchased and moved operations to Fort Edward in 1987 as a manufacturer of billiard balls. Two years later, the company began manufacturing industrial balls and became known as Hyatt Ball Company.

3.2 Process Information

There are two reactors that are used in the phenolic resin batch manufacturing process. Kettle 4 is a small reactor with a capacity of approximately 10 gallons. Kettle 3 is a large reactor with a capacity of approximately 40 gallons. There are two other reactors on site that have been out of service for many years. For each batch, a mixture of formaldehyde, sodium hydroxide, and phenol is heated and mixed in the reactor. After the reaction is complete, the finished resin is poured into molds and heated in the oven to 170 ^{o} F. After cooling, the final product is removed from the molds and packaged for shipping. Approximately 60 pounds of resin are produced in a single batch from Kettle 4. Approximately 360 pounds of resin are produced in a single batch from Kettle 3.

All process wastewater is collected in a 100-gallon receiving tank. During mixing, a vacuum line extracts the distillate vapors. The vapors pass through condenser coils and the distillate liquid flows into the 100-gallon receiving tank. Approximately 3-4 gallons of distillate are generated for each batch in the small reactor. Approximately 30-34 gallons of distillate are generated for each batch in the large reactor. After each batch is completed, the reactor is cleaned with heated water and sodium hydroxide. The reactor rinse water drains into the 100-gallon receiving tank.

Rubber ball grinding operations were discontinued in 2022. There is presently no wastewater generated from this source. Prior to 2022, most of the process wastewater was generated from grinding operations. Wastewater from the reactors is now the sole source of process wastewater. Approximately 700 gallons are generated in a calendar year.

In the past, Hyatt Ball would discharge its process wastewaters to the Washington County Sewer District. At the present time, Hyatt Ball plans to ship the wastewater in the 100-gallon receiving tank to a TSDF (treatment, storage, and disposal facility).

3.3 Facility Self-Monitoring Information

In the past, Hyatt Ball personnel have collected pretreatment wastewater samples from the resin manufacturing and grinding process wastewater streams. These grab samples were collected twice per year for pollutants listed in 40 CFR Section 414.111. In addition, samples were collected for pH. Flow was also recorded for each batch discharge. Samples were analyzed by Adirondack Environmental Services in Albany, New York.

4.0 EPA SAMPLING/INSPECTION ACTIVITIES

4.1 Sampling Activities

A grab sample was collected from the receiving tank by opening a tap on the discharge line. The wastewater was allowed to flow for several minutes before filling the sample containers.

This sample was analyzed for cyanide, metals (lead, zinc), non-volatile organics, and volatile organics. Total residual chlorine and pH were analyzed in the field.

All sample containers, preservation techniques, and holding times were in accordance with U.S. EPA requirements specified in 40 CFR Part 136. All samples were placed in a cooler with wet ice and transported to the U.S. EPA Region 2 Laboratory in Edison, New Jersey.

Split samples were collected and given to the facility representative.

5.0 ANALYTICAL RESULTS

Hyatt Ball Company Pretreatment CSI
February 9, 2023

Parameter	Receiving Tank	Pretreatment Standards for New and Existing Sources – Daily Maximum (40 CFR Section 414.111)
Total Residual Chlorine (mg/l)	0.09	--
pH (su)	12.63	5.0 – 12.5 (range)
Phenol (ug/l)	171,000 L	--
Lead (ug/l)	22.1	690
Zinc (ug/l)	481	2,610
Total Cyanide (ug/l)	Not detected	1,200

L – The reported value may be biased low.

*Only analytes detected at or above the reporting limit are listed in the above table. A complete list of analytes may be found in the attached Laboratory Data Report.

6.0 FINDINGS

6.1 Sampling Result Findings

Phenol was the only organic compound detected in the receiving tank wastewater. However, it is not listed as a toxic pollutant in 40 CFR Section 414.11. Analytical results indicate that all parameters listed in 40 CFR Section 414.111 did not exceed daily maximum discharge limitations for new and existing sources.

The pH of the wastewater in the receiving tank was 12.63, which is greater than 12.5. Because the wastewater is aqueous and has a pH greater than or equal to 12.5, it exhibits the RCRA characteristic of corrosivity (40 CFR Section 261.22).

Hyatt Ball Company has indicated that it plans to ship its receiving tank wastewater to a TSDF. It is recommended that the TSDF collect samples to characterize the wastewater prior to shipping to ensure compliance with RCRA and DOT regulations. Because the wastewater exhibits the RCRA characteristic of corrosivity, it currently must be shipped as a RCRA

D002 hazardous waste. Another option would be to treat the wastewater on site using elementary neutralization to make it non-hazardous with respect to corrosivity.

7.0 ATTACHMENTS

Photographs (#1 - #5)
Laboratory Data Report
Chain of Custody / Field Data Form

Photo #1: View of Kettle 4, the small reactor.

Photo #2: View of Kettle 3, the large reactor.

Photo #3: View of the oven.

Photo #4: View of the receiving tank.

Photo #5: View of the tap on the discharge line where samples were collected.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory
2890 Woodbridge Avenue
Edison , New Jersey 08837
732-906-6886 Phone
732-906-6165 Fax

February 28, 2023

Bob Morrell
Monitoring & Assessment Branch
LSASD/MAB
Edison, NJ 08837

RE: Hyatt Ball Company - 2302011

Enclosed are the results of analyses for samples received by the laboratory on 02/09/2023. The signature below reflects the laboratory's approval of the reported results. If you have any questions concerning this report, please refer to Project Number 2302011 and contact the laboratory.

Sincerely,

John R. Bourbon
Chief, LSASD/LB

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Final Report

Project: Hyatt Ball Company - 2302011

Project Number: 2302011

Project Narrative:

The National Environmental Laboratory Accreditation Conference Institute (TNI) is a voluntary environmental laboratory accreditation association of State and Federal agencies. TNI established and promoted a National Environmental Laboratory Accreditation Program (NELAP) that provides a uniform set of standards for the generation of environmental data that are of known and defensible quality. The EPA Region 2 Laboratory is NELAP accredited. The Laboratory tests that are accredited have met all the requirements established under the TNI Standards.

Condition Comments

None

Comment(s):

SVOA:

Due to the nature ofl the matrix, surrogate recoveries were out ofl the acceptance limit in sample, MS, and MSD.

Majority ofl the target analytes recovery were out ofl the acceptance limit in M$MSD.

Due to the above problems, all target compounds in the sample were flagged with "L".

The "Sample Analysis Date and Time" is included in the results section for any analyte with a prescribed holding time of 72 hours or less.

Data Qualifier(s):

U- The analyte was not detected at or above the Reporting Limit.
J- The identification of the analyte is acceptable; the reported value is an estimate.
K- The identification of the analyte is acceptable; the reported value may be biased high.
L- The identification of the analyte is acceptable; the reported value may be biased low.
NJ- There is presumptive evidence that the analyte is present; the analyte is reported as a tentative identification. The reported value is an estimate.

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Project: Hyatt Ball Company - 2302011

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Reporting Limit(s):

The Laboratory was able to achieve the standard laboratory reporting limits, where applicable, for each analyte requested except for the following analyte(s):

NVOA GCMS

The reporting level of 5.00 ug/L was raised to 30 ug/L for the following analyte(s):
4,6-Dinitro-2-Methylphenol, Pentachlorophenol
for the following samples:
2302011-02

The reporting level of 5.00 ug/L was raised to 50 ug/L for the following analyte(s):
2,4-Dinitrophenol
for the following samples:
2302011-02

SUMMARY REPORT FOR SAMPLES

Field ID	Laboratory ID	Matrix	Date Sampled	Date Received
Trip Blank	2302011-01	Aqueous	02/09/2023 12:10	02/09/2023 18:00
Receiving Tank-Grab	2302011-02	Aqueous	02/09/2023 12:46	02/09/2023 18:00

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

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SUMMARY REPORT FOR METHODS

Analysis	Method	Certification	Matrix
624.1 VOA EPA-NPDES	EPA 624.1 SOP C-89 Rev 3.7	NELAP	Aqueous
625.1 SVOA NPDES	EPA 625.1 SOP C-90 Rev 3.9	NELAP	Aqueous
Cyanide, Total	EPA 335.4 SOP C-28 Rev 2.8	NELAP	Aqueous
Metals ICP TAL NPDES/DW	EPA 200.7 SOP C-109 Rev 3.7	NELAP	Aqueous

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Analyte	Result	Qualifier	Reporting Limit	Units	Batch	Date and Time of Analysis*
Field ID: Trip Blank				**Sample ID: 2302011-01**		
VOA GCMS						
Chloromethane	---	U	5.00	ug/L	B302038	
Vinyl Chloride	---	U	5.00	ug/L	B302038	
Bromomethane	---	U	5.00	ug/L	B302038	
Chloroethane	---	U	5.00	ug/L	B302038	
Trichlorofluoromethane	---	U	5.00	ug/L	B302038	
1,1-Dichloroethene	---	U	5.00	ug/L	B302038	
Methylene Chloride	---	U	5.00	ug/L	B302038	
Acrylonitrile	---	U	5.00	ug/L	B302038	
trans-1,2-Dichloroethene	---	U	5.00	ug/L	B302038	
1,1-Dichloroethane	---	U	5.00	ug/L	B302038	
Chloroform	---	U	5.00	ug/L	B302038	
1,1,1-Trichloroethane	---	U	5.00	ug/L	B302038	
Carbon Tetrachloride	---	U	5.00	ug/L	B302038	
1,2-Dichloroethane	---	U	5.00	ug/L	B302038	
Benzene	---	U	5.00	ug/L	B302038	
Trichloroethene	---	U	5.00	ug/L	B302038	
1,2-Dichloropropane	---	U	5.00	ug/L	B302038	
Bromodichloromethane	---	U	5.00	ug/L	B302038	
cis-1,3-Dichloropropene	---	U	5.00	ug/L	B302038	
Toluene	---	U	5.00	ug/L	B302038	
trans-1,3-Dichloropropene	---	U	5.00	ug/L	B302038	
1,1,2-Trichloroethane	---	U	5.00	ug/L	B302038	
Tetrachloroethene	---	U	5.00	ug/L	B302038	
Dibromochloromethane	---	U	5.00	ug/L	B302038	
Chlorobenzene	---	U	5.00	ug/L	B302038	
Ethylbenzene	---	U	5.00	ug/L	B302038	
Bromoform	---	U	5.00	ug/L	B302038	
1,1,2,2-Tetrachloroethane	---	U	5.00	ug/L	B302038	
1,3-Dichlorobenzene	---	U	5.00	ug/L	B302038	

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Analyte	Result	Qualifier	Reporting Limit	Units	Batch	Date and Time of Analysis*
Field ID: Trip Blank			**Sample ID: 2302011-01**			
VOA GCMS						
1,4-Dichlorobenzene	---	U	5.00	ug/L	B302038	
1,2-Dichlorobenzene	---	U	5.00	ug/L	B302038	
Field ID: Receiving Tank-Grab			**Sample ID: 2302011-02**			
VOA GCMS						
Chloromethane	---	U	50.0	ug/L	B302038	
Vinyl Chloride	---	U	50.0	ug/L	B302038	
Bromomethane	---	U	50.0	ug/L	B302038	
Chloroethane	---	U	50.0	ug/L	B302038	
Trichlorofluoromethane	---	U	50.0	ug/L	B302038	
1,1-Dichloroethene	---	U	50.0	ug/L	B302038	
Methylene Chloride	---	U	50.0	ug/L	B302038	
Acrylonitrile	---	U	50.0	ug/L	B302038	
trans-1,2-Dichloroethene	---	U	50.0	ug/L	B302038	
1,1-Dichloroethane	---	U	50.0	ug/L	B302038	
Chloroform	---	U	50.0	ug/L	B302038	
1,1,1-Trichloroethane	---	U	50.0	ug/L	B302038	
Carbon Tetrachloride	---	U	50.0	ug/L	B302038	
1,2-Dichloroethane	---	U	50.0	ug/L	B302038	
Benzene	---	U	50.0	ug/L	B302038	
Trichloroethene	---	U	50.0	ug/L	B302038	
1,2-Dichloropropane	---	U	50.0	ug/L	B302038	
Bromodichloromethane	---	U	50.0	ug/L	B302038	
cis-1,3-Dichloropropene	---	U	50.0	ug/L	B302038	
Toluene	---	U	50.0	ug/L	B302038	
trans-1,3-Dichloropropene	---	U	50.0	ug/L	B302038	
1,1,2-Trichloroethane	---	U	50.0	ug/L	B302038	
Tetrachloroethene	---	U	50.0	ug/L	B302038	
Dibromochloromethane	---	U	50.0	ug/L	B302038	
Chlorobenzene	---	U	50.0	ug/L	B302038	

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Analyte	Result	Qualifier	Reporting Limit	Units	Batch	Date and Time of Analysis*
Field ID: Receiving Tank-Grab			**Sample ID: 2302011-02**			
VOA GCMS						
Ethylbenzene	---	U	50.0	ug/L	B302038	
Bromoform	---	U	50.0	ug/L	B302038	
1,1,2,2-Tetrachloroethane	---	U L	50.0	ug/L	B302038	
1,3-Dichlorobenzene	---	U	50.0	ug/L	B302038	
1,4-Dichlorobenzene	---	U	50.0	ug/L	B302038	
1,2-Dichlorobenzene	---	U	50.0	ug/L	B302038	
NVOA GCMS						
Acenaphthene	---	U L	5.10	ug/L	B302020	
Acenaphthylene	---	U L	5.10	ug/L	B302020	
Anthracene	---	U L	5.10	ug/L	B302020	
Benzo(A)Anthracene	---	U L	5.10	ug/L	B302020	
Benzo(A)Pyrene	---	U L	5.10	ug/L	B302020	
Benzo(B)Fluoranthene	---	U L	5.10	ug/L	B302020	
Benzo(G,H,I)Perylene	---	U L	5.10	ug/L	B302020	
Benzo(K)Fluoranthene	---	U L	5.10	ug/L	B302020	
Chrysene	---	U L	5.10	ug/L	B302020	
Dibenzo(A,H)Anthracene	---	U L	5.10	ug/L	B302020	
Fluoranthene	---	U L	5.10	ug/L	B302020	
Fluorene	---	U L	5.10	ug/L	B302020	
Indeno(1,2,3-Cd)Pyrene	---	U L	5.10	ug/L	B302020	
Naphthalene	---	U L	5.10	ug/L	B302020	
Phenanthrene	---	U L	5.10	ug/L	B302020	
1,2,4-Trichlorobenzene	---	U L	5.10	ug/L	B302020	
2,4,6-Trichlorophenol	---	U L	5.10	ug/L	B302020	
2,4-Dichlorophenol	---	U L	5.10	ug/L	B302020	
2,4-Dimethylphenol	---	U J	5.10	ug/L	B302020	
2,4-Dinitrotoluene	---	U L	5.10	ug/L	B302020	
2,6-Dinitrotoluene	---	U L	5.10	ug/L	B302020	
2,4-Dinitrophenol	---	U L	51.0	ug/L	B302020	

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Analyte	Result	Qualifier	Reporting Limit	Units	Batch	Date and Time of Analysis*
Field ID: Receiving Tank-Grab			**Sample ID: 2302011-02**			
NVOA GCMS						
2-Chloronaphthalene	---	U L	5.10	ug/L	B302020	
2-Chlorophenol	---	U L	5.10	ug/L	B302020	
2-Nitrophenol	---	U L	5.10	ug/L	B302020	
3,3'- Dichlorobenzidine	---	U L	5.10	ug/L	B302020	
4,6-Dinitro-2-Methylphenol	---	U L	30.6	ug/L	B302020	
4-Bromophenyl-Phenylether	---	U L	5.10	ug/L	B302020	
4-Chloro-3-Methylphenol	---	U L	5.10	ug/L	B302020	
4-Chlorophenyl-Phenylether	---	U L	5.10	ug/L	B302020	
4-Nitrophenol	---	U L	5.10	ug/L	B302020	
Bis(-2-Chloroethoxy)Methane	---	U L	5.10	ug/L	B302020	
Bis(2-Chloroethyl)Ether	---	U L	5.10	ug/L	B302020	
Bis(2-Chloroisopropyl)Ether	---	U L	5.10	ug/L	B302020	
Bis(2-Ethylhexyl)Phthalate	---	U L	5.10	ug/L	B302020	
Butylbenzylphthalate	---	U L	5.10	ug/L	B302020	
Azobenzene	---	U L	5.10	ug/L	B302020	
Diethylphthalate	---	U L	5.10	ug/L	B302020	
Dimethyl Phthalate	---	U L	5.10	ug/L	B302020	
Di-N-Butyl Phthalate	---	U L	5.10	ug/L	B302020	
Di-N-Octyl Phthalate	---	U L	5.10	ug/L	B302020	
Hexachlorobenzene	---	U L	5.10	ug/L	B302020	
Hexachlorobutadiene	---	U L	5.10	ug/L	B302020	
Hexachlorocyclopentadiene	---	U J	5.10	ug/L	B302020	
Hexachloroethane	---	U L	5.10	ug/L	B302020	
Isophorone	---	U L	5.10	ug/L	B302020	
Nitrobenzene	---	U L	5.10	ug/L	B302020	
N-Nitrosodimethylamine	---	U L	5.10	ug/L	B302020	
N-Nitroso-Di-N-Propylamine	---	U L	5.10	ug/L	B302020	
N-Nitrosodiphenylamine	---	U J	5.10	ug/L	B302020	
Pentachlorophenol	---	U L	30.6	ug/L	B302020	

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Analyte	Result	Qualifier	Reporting Limit	Units	Batch	Date and Time of Analysis*
Field ID: Receiving Tank-Grab				**Sample ID: 2302011-02**		
NVOA GCMS						
Phenol	171000	L	25500	ug/L	B302020	
Pyrene	---	U L	5.10	ug/L	B302020	
Metals ICP						
Lead	22.1		8.00	ug/L	B302068	
Zinc	481		20.0	ug/L	B302068	
Sanitary						
Cyanide, Total	---	U L	10.0	ug/L	B302069	

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VOA GCMS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B302038									
Blank (B302038-BLK1)									
Chloromethane	--- U	5.00	ug/L						
Vinyl Chloride	--- U	5.00	ug/L						
Bromomethane	--- U	5.00	ug/L						
Chloroethane	--- U	5.00	ug/L						
Trichlorofluoromethane	--- U	5.00	ug/L						
1,1-Dichloroethene	--- U	5.00	ug/L						
Methylene Chloride	--- U	5.00	ug/L						
Acrylonitrile	--- U	5.00	ug/L						
trans-1,2-Dichloroethene	--- U	5.00	ug/L						
1,1-Dichloroethane	--- U	5.00	ug/L						
Chloroform	--- U	5.00	ug/L						
1,1,1-Trichloroethane	--- U	5.00	ug/L						
Carbon Tetrachloride	--- U	5.00	ug/L						
1,2-Dichloroethane	--- U	5.00	ug/L						
Benzene	--- U	5.00	ug/L						
Trichloroethene	--- U	5.00	ug/L						
1,2-Dichloropropane	--- U	5.00	ug/L						
Bromodichloromethane	--- U	5.00	ug/L						
cis-1,3-Dichloropropene	--- U	5.00	ug/L						
Toluene	--- U	5.00	ug/L						
trans-1,3-Dichloropropene	--- U	5.00	ug/L						
1,1,2-Trichloroethane	--- U	5.00	ug/L						
Tetrachloroethene	--- U	5.00	ug/L						
Dibromochloromethane	--- U	5.00	ug/L						
Chlorobenzene	--- U	5.00	ug/L						
Ethylbenzene	--- U	5.00	ug/L						
Bromoform	--- U	5.00	ug/L						
1,1,2,2-Tetrachloroethane	--- U	5.00	ug/L						
1,3-Dichlorobenzene	--- U	5.00	ug/L						
1,4-Dichlorobenzene	--- U	5.00	ug/L						
1,2-Dichlorobenzene	--- U	5.00	ug/L						
Surrogate: 1,4-Difluorobenzene	*ND*		ug/L	*100.0*		*98.7*	*60-140*		
Surrogate: 2-Bromo-1-Chloropropane	*ND*		ug/L	*100.0*		*98.8*	*60-140*		
Surrogate: 1,4-Dichlorobutane	*102*		ug/L	*100.0*		*102*	*60-140*		

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Project Number: 2302011

VOA GCMS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B302038									
LCS (B302038-BS1)									
Chloromethane	53.0	5.00	ug/L	50.00		106	19-205		
Vinyl Chloride	44.7	5.00	ug/L	50.00		89.4	5-195		
Bromomethane	46.4	5.00	ug/L	50.00		92.7	15-185		
Chloroethane	48.6	5.00	ug/L	50.00		97.3	40-160		
Trichlorofluoromethane	52.5	5.00	ug/L	50.00		105	50-150		
1,1-Dichloroethene	48.6	5.00	ug/L	50.00		97.2	50-150		
Methylene Chloride	45.9	5.00	ug/L	50.00		91.8	60-140		
Acrylonitrile	48.1	5.00	ug/L	50.00		96.3	60-140		
trans-1,2-Dichloroethene	50.6	5.00	ug/L	50.00		101	70-130		
1,1-Dichloroethane	47.0	5.00	ug/L	50.00		93.9	70-130		
Chloroform	47.0	5.00	ug/L	50.00		94.1	70-135		
1,1,1-Trichloroethane	47.5	5.00	ug/L	50.00		95.1	70-130		
Carbon Tetrachloride	46.8	5.00	ug/L	50.00		93.6	70-130		
1,2-Dichloroethane	46.6	5.00	ug/L	50.00		93.3	70-130		
Benzene	46.5	5.00	ug/L	50.00		93.0	65-135		
Trichloroethene	46.5	5.00	ug/L	50.00		93.1	65-135		
1,2-Dichloropropane	46.5	5.00	ug/L	50.00		93.0	35-165		
Bromodichloromethane	46.3	5.00	ug/L	50.00		92.7	65-135		
cis-1,3-Dichloropropene	46.7	5.00	ug/L	50.00		93.4	25-175		
Toluene	46.5	5.00	ug/L	50.00		93.0	70-130		
trans-1,3-Dichloropropene	48.9	5.00	ug/L	50.00		97.9	50-150		
1,1,2-Trichloroethane	45.3	5.00	ug/L	50.00		90.6	70-130		
Tetrachloroethene	45.6	5.00	ug/L	50.00		91.2	70-130		
Dibromochloromethane	46.5	5.00	ug/L	50.00		93.0	70-135		
Chlorobenzene	45.6	5.00	ug/L	50.00		91.1	65-135		
Ethylbenzene	47.2	5.00	ug/L	50.00		94.4	60-140		
Bromoform	46.4	5.00	ug/L	50.00		92.8	70-130		
1,1,2,2-Tetrachloroethane	46.5	5.00	ug/L	50.00		92.9	60-140		
1,3-Dichlorobenzene	45.3	5.00	ug/L	50.00		90.6	70-130		
1,4-Dichlorobenzene	45.0	5.00	ug/L	50.00		90.0	65-135		
1,2-Dichlorobenzene	45.4	5.00	ug/L	50.00		90.7	65-135		
Surrogate: 1,4-Difluorobenzene	*97.6*		ug/L	*100.0*		*97.6*	*60-140*		
Surrogate: 2-Bromo-1-Chloropropane	*100*		ug/L	*100.0*		*100*	*60-140*		
Surrogate: 1,4-Dichlorobutane	*99.6*		ug/L	*100.0*		*99.6*	*60-140*		

Final Report

Project: Hyatt Ball Company - 2302011

Project Number: 2302011

VOA GCMS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B302038									
LCS Dup (B302038-BSD1)									
Chloromethane	52.1	5.00	ug/L	50.00		104	19-205	1.79	20
Vinyl Chloride	44.4	5.00	ug/L	50.00		88.7	5-195	0.719	20
Bromomethane	46.5	5.00	ug/L	50.00		93.1	15-185	0.344	20
Chloroethane	48.1	5.00	ug/L	50.00		96.2	40-160	1.18	20
Trichlorofluoromethane	50.4	5.00	ug/L	50.00		101	50-150	3.95	20
1,1-Dichloroethene	48.1	5.00	ug/L	50.00		96.1	50-150	1.10	20
Methylene Chloride	44.1	5.00	ug/L	50.00		88.2	60-140	4.02	20
Acrylonitrile	48.1	5.00	ug/L	50.00		96.2	60-140	0.0831	20
trans-1,2-Dichloroethene	49.2	5.00	ug/L	50.00		98.4	70-130	2.85	20
1,1-Dichloroethane	45.6	5.00	ug/L	50.00		91.2	70-130	3.00	20
Chloroform	45.6	5.00	ug/L	50.00		91.1	70-135	3.20	20
1,1,1-Trichloroethane	46.2	5.00	ug/L	50.00		92.4	70-130	2.84	20
Carbon Tetrachloride	45.8	5.00	ug/L	50.00		91.6	70-130	2.20	20
1,2-Dichloroethane	45.7	5.00	ug/L	50.00		91.4	70-130	2.06	20
Benzene	45.6	5.00	ug/L	50.00		91.2	65-135	2.04	20
Trichloroethene	45.8	5.00	ug/L	50.00		91.5	65-135	1.67	20
1,2-Dichloropropane	45.2	5.00	ug/L	50.00		90.5	35-165	2.70	20
Bromodichloromethane	45.4	5.00	ug/L	50.00		90.7	65-135	2.12	20
cis-1,3-Dichloropropene	45.9	5.00	ug/L	50.00		91.7	25-175	1.84	20
Toluene	45.6	5.00	ug/L	50.00		91.2	70-130	1.93	20
trans-1,3-Dichloropropene	48.2	5.00	ug/L	50.00		96.5	50-150	1.44	20
1,1,2-Trichloroethane	44.0	5.00	ug/L	50.00		88.1	70-130	2.82	20
Tetrachloroethene	43.6	5.00	ug/L	50.00		87.2	70-130	4.42	20
Dibromochloromethane	44.8	5.00	ug/L	50.00		89.7	70-135	3.61	20
Chlorobenzene	43.5	5.00	ug/L	50.00		87.0	65-135	4.65	20
Ethylbenzene	45.3	5.00	ug/L	50.00		90.6	60-140	4.04	20
Bromoform	44.7	5.00	ug/L	50.00		89.4	70-130	3.73	20
1,1,2,2-Tetrachloroethane	45.3	5.00	ug/L	50.00		90.6	60-140	2.51	20
1,3-Dichlorobenzene	44.0	5.00	ug/L	50.00		87.9	70-130	3.02	20
1,4-Dichlorobenzene	43.1	5.00	ug/L	50.00		86.2	65-135	4.34	20
1,2-Dichlorobenzene	43.7	5.00	ug/L	50.00		87.4	65-135	3.73	20
Surrogate: 1,4-Difluorobenzene	*98.8*		ug/L	*100.0*		*98.8*	*60-140*		
Surrogate: 2-Bromo-1-Chloropropane	*101*		ug/L	*100.0*		*101*	*60-140*		
Surrogate: 1,4-Dichlorobutane	*99.1*		ug/L	*100.0*		*99.1*	*60-140*		

Final Report

Project: Hyatt Ball Company - 2302011

Project Number: 2302011

VOA GCMS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B302038									
Matrix Spike (B302038-MS1)	**Source: 2302011-02**								
Chloromethane	55.3	5.00	ug/L	50.00	ND	111	19-273		
Vinyl Chloride	45.3	5.00	ug/L	50.00	ND	90.7	49-251		
Bromomethane	43.8	5.00	ug/L	50.00	ND	87.5	21-242		
Chloroethane	48.2	5.00	ug/L	50.00	ND	96.4	14-230		
Trichlorofluoromethane	49.9	5.00	ug/L	50.00	ND	99.8	17-181		
1,1-Dichloroethene	48.6	5.00	ug/L	50.00	ND	97.2	52-234		
Methylene Chloride	44.0	5.00	ug/L	50.00	ND	88.0	69-221		
Acrylonitrile	44.4	5.00	ug/L	50.00	ND	88.7	40-160		
trans-1,2-Dichloroethene	48.3	5.00	ug/L	50.00	ND	96.5	54-156		
1,1-Dichloroethane	45.4	5.00	ug/L	50.00	ND	90.8	59-155		
Chloroform	45.7	5.00	ug/L	50.00	ND	91.4	51-138		
1,1,1-Trichloroethane	45.5	5.00	ug/L	50.00	ND	91.0	52-162		
Carbon Tetrachloride	45.0	5.00	ug/L	50.00	ND	89.9	70-140		
1,2-Dichloroethane	44.5	5.00	ug/L	50.00	ND	89.0	49-155		
Benzene	45.1	5.00	ug/L	50.00	ND	90.2	37-151		
Trichloroethene	79.9	5.00	ug/L	50.00	ND	160	70-157		
1,2-Dichloropropane	44.7	5.00	ug/L	50.00	ND	89.3	74-210		
Bromodichloromethane	44.0	5.00	ug/L	50.00	ND	88.1	35-155		
cis-1,3-Dichloropropene	43.6	5.00	ug/L	50.00	ND	87.2	80-227		
Toluene	44.8	5.00	ug/L	50.00	ND	89.5	47-150		
trans-1,3-Dichloropropene	46.3	5.00	ug/L	50.00	ND	92.6	17-183		
1,1,2-Trichloroethane	41.4	5.00	ug/L	50.00	ND	82.9	52-150		
Tetrachloroethene	43.8	5.00	ug/L	50.00	ND	87.6	64-148		
Dibromochloromethane	43.0	5.00	ug/L	50.00	ND	86.0	53-149		
Chlorobenzene	43.3	5.00	ug/L	50.00	ND	86.6	37-160		
Ethylbenzene	45.3	5.00	ug/L	50.00	ND	90.7	37-162		
Bromoform	42.8	5.00	ug/L	50.00	ND	85.5	45-169		
1,1,2,2-Tetrachloroethane	--- U	5.00	ug/L	50.00	ND		46-157		
1,3-Dichlorobenzene	46.0	5.00	ug/L	50.00	ND	92.0	59-156		
1,4-Dichlorobenzene	45.3	5.00	ug/L	50.00	ND	90.7	18-190		
1,2-Dichlorobenzene	45.7	5.00	ug/L	50.00	ND	91.4	18-190		
Surrogate: 1,4-Difluorobenzene	*97.8*		ug/L	*100.0*		*97.8*	*60-140*		
Surrogate: 2-Bromo-1-Chloropropane	*99.3*		ug/L	*100.0*		*99.3*	*60-140*		
Surrogate: 1,4-Dichlorobutane	*98.7*		ug/L	*100.0*		*98.7*	*60-140*		

Final Report

Project: Hyatt Ball Company - 2302011

Project Number: 2302011

VOA GCMS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B302038									
Matrix Spike Dup (B302038-MSD1)	**Source: 2302011-02**								
Chloromethane	59.6	5.00	ug/L	50.00	ND	119	19-273	7.46	28
Vinyl Chloride	48.9	5.00	ug/L	50.00	ND	97.8	49-251	7.58	28
Bromomethane	49.5	5.00	ug/L	50.00	ND	98.9	21-242	12.2	28
Chloroethane	52.2	5.00	ug/L	50.00	ND	104	14-230	8.07	28
Trichlorofluoromethane	53.1	5.00	ug/L	50.00	ND	106	17-181	6.12	28
1,1-Dichloroethene	51.6	5.00	ug/L	50.00	ND	103	52-234	6.09	28
Methylene Chloride	47.2	5.00	ug/L	50.00	ND	94.4	69-221	6.93	28
Acrylonitrile	51.6	5.00	ug/L	50.00	ND	103	40-160	15.0	28
trans-1,2-Dichloroethene	51.0	5.00	ug/L	50.00	ND	102	54-156	5.60	28
1,1-Dichloroethane	48.2	5.00	ug/L	50.00	ND	96.3	59-155	5.84	28
Chloroform	48.7	5.00	ug/L	50.00	ND	97.5	51-138	6.48	28
1,1,1-Trichloroethane	48.7	5.00	ug/L	50.00	ND	97.3	52-162	6.69	28
Carbon Tetrachloride	48.5	5.00	ug/L	50.00	ND	97.0	70-140	7.62	28
1,2-Dichloroethane	48.3	5.00	ug/L	50.00	ND	96.5	49-155	8.08	28
Benzene	47.9	5.00	ug/L	50.00	ND	95.8	37-151	6.09	28
Trichloroethene	87.5	5.00	ug/L	50.00	ND	175	70-157	9.13	28
1,2-Dichloropropane	47.5	5.00	ug/L	50.00	ND	95.0	74-210	6.12	28
Bromodichloromethane	47.0	5.00	ug/L	50.00	ND	94.0	35-155	6.48	28
cis-1,3-Dichloropropene	46.7	5.00	ug/L	50.00	ND	93.4	80-227	6.93	28
Toluene	47.6	5.00	ug/L	50.00	ND	95.3	47-150	6.23	28
trans-1,3-Dichloropropene	49.9	5.00	ug/L	50.00	ND	99.9	17-183	7.54	28
1,1,2-Trichloroethane	44.7	5.00	ug/L	50.00	ND	89.3	52-150	7.53	28
Tetrachloroethene	46.0	5.00	ug/L	50.00	ND	91.9	64-148	4.81	28
Dibromochloromethane	46.7	5.00	ug/L	50.00	ND	93.5	53-149	8.31	28
Chlorobenzene	47.0	5.00	ug/L	50.00	ND	93.9	37-160	8.11	28
Ethylbenzene	48.4	5.00	ug/L	50.00	ND	96.9	37-162	6.61	28
Bromoform	47.9	5.00	ug/L	50.00	ND	95.8	45-169	11.4	28
1,1,2,2-Tetrachloroethane	--- U	5.00	ug/L	50.00	ND		46-157		28
1,3-Dichlorobenzene	49.0	5.00	ug/L	50.00	ND	98.0	59-156	6.25	28
1,4-Dichlorobenzene	48.8	5.00	ug/L	50.00	ND	97.6	18-190	7.39	28
1,2-Dichlorobenzene	49.9	5.00	ug/L	50.00	ND	99.9	18-190	8.89	28
Surrogate: 1,4-Difluorobenzene	*98.0*		ug/L	*100.0*		*98.0*	*60-140*		
Surrogate: 2-Bromo-1-Chloropropane	*99.4*		ug/L	*100.0*		*99.4*	*60-140*		
Surrogate: 1,4-Dichlorobutane	*101*		ug/L	*100.0*		*101*	*60-140*		

Final Report

Project: Hyatt Ball Company - 2302011

Project Number: 2302011

NVOA GCMS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B302020									
Blank (B302020-BLK2)									
Acenaphthene	--- U	5.00	ug/L						
Acenaphthylene	--- U	5.00	ug/L						
Anthracene	--- U	5.00	ug/L						
Benzo(A)Anthracene	--- U	5.00	ug/L						
Benzo(A)Pyrene	--- U	5.00	ug/L						
Benzo(B)Fluoranthene	--- U	5.00	ug/L						
Benzo(G,H,I)Perylene	--- U	5.00	ug/L						
Benzo(K)Fluoranthene	--- U	5.00	ug/L						
Chrysene	--- U	5.00	ug/L						
Dibenzo(A,H)Anthracene	--- U	5.00	ug/L						
Fluoranthene	--- U	5.00	ug/L						
Fluorene	--- U	5.00	ug/L						
Indeno(1,2,3-Cd)Pyrene	--- U	5.00	ug/L						
Naphthalene	--- U	5.00	ug/L						
Phenanthrene	--- U	5.00	ug/L						
1,2,4-Trichlorobenzene	--- U	5.00	ug/L						
2,4,6-Trichlorophenol	--- U	5.00	ug/L						
2,4-Dichlorophenol	--- U	5.00	ug/L						
2,4-Dimethylphenol	--- U	5.00	ug/L						
2,4-Dinitrotoluene	--- U	5.00	ug/L						
2,6-Dinitrotoluene	--- U	5.00	ug/L						
2,4-Dinitrophenol	--- U	5.00	ug/L						
2-Chloronaphthalene	--- U	5.00	ug/L						
2-Chlorophenol	--- U	5.00	ug/L						
2-Nitrophenol	--- U	5.00	ug/L						
3,3'- Dichlorobenzidine	--- U	5.00	ug/L						
4,6-Dinitro-2-Methylphenol	--- U	5.00	ug/L						
4-Bromophenyl-Phenylether	--- U	5.00	ug/L						
4-Chloro-3-Methylphenol	--- U	5.00	ug/L						
4-Chlorophenyl-Phenylether	--- U	5.00	ug/L						
4-Nitrophenol	--- U	5.00	ug/L						
Bis(-2-Chloroethoxy)Methane	--- U	5.00	ug/L						
Bis(2-Chloroethyl)Ether	--- U	5.00	ug/L						
Bis(2-Chloroisopropyl)Ether	--- U	5.00	ug/L						
Bis(2-Ethylhexyl)Phthalate	--- U	5.00	ug/L						

Final Report

Project: Hyatt Ball Company - 2302011

Project Number: 2302011

NVOA GCMS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B302020									
Blank (B302020-BLK2)									
Butylbenzylphthalate	--- U	5.00	ug/L						
Azobenzene	--- U	5.00	ug/L						
Diethylphthalate	--- U	5.00	ug/L						
Dimethyl Phthalate	--- U	5.00	ug/L						
Di-N-Butyl Phthalate	--- U	5.00	ug/L						
Di-N-Octyl Phthalate	--- U	5.00	ug/L						
Hexachlorobenzene	--- U	5.00	ug/L						
Hexachlorobutadiene	--- U	5.00	ug/L						
Hexachlorocyclopentadiene	--- U	5.00	ug/L						
Hexachloroethane	--- U	5.00	ug/L						
Isophorone	--- U	5.00	ug/L						
Nitrobenzene	--- U	5.00	ug/L						
N-Nitrosodimethylamine	--- U	5.00	ug/L						
N-Nitroso-Di-N-Propylamine	--- U	5.00	ug/L						
N-Nitrosodiphenylamine	--- U	5.00	ug/L						
Pentachlorophenol	--- U	5.00	ug/L						
Phenol	--- U	5.00	ug/L						
Pyrene	--- U	5.00	ug/L						
Surrogate: 2-Fluoroaniline	*35.2*		ug/L	*50.00*		*70.4*	*60-140*		
Surrogate: Phenol-D6	*ND*		ug/L	*50.00*		*35.7*	*60-140*		
Surrogate: Naphthalene-D8	*38.0*		ug/L	*50.00*		*76.0*	*60-140*		
Surrogate: 1-Fluoronaphthalene	*37.1*		ug/L	*50.00*		*74.2*	*60-140*		
Surrogate: 2,4-Dibromophenol	*35.1*		ug/L	*50.00*		*70.2*	*60-140*		
Surrogate: Anthracene-D10	*ND*		ug/L	*50.00*		*54.9*	*60-140*		
Surrogate: Chrysene-D12	*54.3*		ug/L	*50.00*		*109*	*60-140*		
LCS (B302020-BS2)									
Acenaphthene	44.0	5.00	ug/L	50.00		88.0	47-145		
Acenaphthylene	42.1	5.00	ug/L	50.00		84.3	33-145		
Anthracene	43.4	5.00	ug/L	50.00		86.8	27-133		
Benzo(A)Anthracene	41.0	5.00	ug/L	50.00		82.0	33-143		
Benzo(A)Pyrene	45.1	5.00	ug/L	50.00		90.2	17-163		
Benzo(B)Fluoranthene	48.3	5.00	ug/L	50.00		96.6	24-159		
Benzo(G,H,I)Perylene	47.5	5.00	ug/L	50.00		95.0	35-219		
Benzo(K)Fluoranthene	45.7	5.00	ug/L	50.00		91.3	11-162		

Final Report

Project: Hyatt Ball Company - 2302011

Project Number: 2302011

NVOA GCMS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B302020									
LCS (B302020-BS2)									
Chrysene	40.4	5.00	ug/L	50.00		80.7	17-168		
Dibenzo(A,H)Anthracene	46.3	5.00	ug/L	50.00		92.6	33-227		
Fluoranthene	45.2	5.00	ug/L	50.00		90.4	26-137		
Fluorene	43.3	5.00	ug/L	50.00		86.6	59-121		
Indeno(1,2,3-Cd)Pyrene	47.6	5.00	ug/L	50.00		95.1	39-171		
Naphthalene	35.2	5.00	ug/L	50.00		70.3	21-133		
Phenanthrene	44.9	5.00	ug/L	50.00		89.9	54-120		
1,2,4-Trichlorobenzene	31.6	5.00	ug/L	50.00		63.2	44-142		
2,4,6-Trichlorophenol	41.2	5.00	ug/L	50.00		82.5	37-144		
2,4-Dichlorophenol	38.9	5.00	ug/L	50.00		77.8	39-135		
2,4-Dimethylphenol	21.2	5.00	ug/L	50.00		42.3	32-120		
2,4-Dinitrotoluene	47.2	5.00	ug/L	50.00		94.5	39-139		
2,6-Dinitrotoluene	46.7	5.00	ug/L	50.00		93.4	50-158		
2,4-Dinitrophenol	36.8	5.00	ug/L	50.00		73.5	21-191		
2-Chloronaphthalene	40.6	5.00	ug/L	50.00		81.1	60-120		
2-Chlorophenol	32.5	5.00	ug/L	50.00		65.0	23-134		
2-Nitrophenol	39.3	5.00	ug/L	50.00		78.6	29-182		
3,3'- Dichlorobenzidine	45.3	5.00	ug/L	50.00		90.7	38-262		
4,6-Dinitro-2-Methylphenol	47.2	5.00	ug/L	50.00		94.3	17-181		
4-Bromophenyl-Phenylether	44.4	5.00	ug/L	50.00		88.8	53-127		
4-Chloro-3-Methylphenol	41.9	5.00	ug/L	50.00		83.9	22-147		
4-Chlorophenyl-Phenylether	43.4	5.00	ug/L	50.00		86.8	25-158		
4-Nitrophenol	21.6	5.00	ug/L	50.00		43.3	9-132		
Bis(-2-Chloroethoxy)Methane	39.4	5.00	ug/L	50.00		78.8	33-184		
Bis(2-Chloroethyl)Ether	34.0	5.00	ug/L	50.00		68.0	12-158		
Bis(2-Chloroisopropyl)Ether	34.2	5.00	ug/L	50.00		68.5	36-166		
Bis(2-Ethylhexyl)Phthalate	52.2	5.00	ug/L	50.00		104	8-158		
Butylbenzylphthalate	52.1	5.00	ug/L	50.00		104	38-152		
Azobenzene	44.5	5.00	ug/L	50.00		89.0	60-115		
Diethylphthalate	44.5	5.00	ug/L	50.00		89.0	31-114		
Dimethyl Phthalate	42.0	5.00	ug/L	50.00		84.0	28-120		
Di-N-Butyl Phthalate	48.5	5.00	ug/L	50.00		97.0	1-120		
Di-N-Octyl Phthalate	50.1	5.00	ug/L	50.00		100	4-146		
Hexachlorobenzene	43.2	5.00	ug/L	50.00		86.4	35-152		
Hexachlorobutadiene	29.0	5.00	ug/L	50.00		57.9	24-120		

NOTE: The results recorded in this report relate only to the samples as received on the date and at the time noted

Final Report

Project: Hyatt Ball Company - 2302011

Project Number: 2302011

NVOA GCMS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B302020									
LCS (B302020-BS2)									
Hexachlorocyclopentadiene	40.5	5.00	ug/L	50.00		81.0	15-76		
Hexachloroethane	27.6	5.00	ug/L	50.00		55.1	40-120		
Isophorone	45.5	5.00	ug/L	50.00		91.0	21-196		
Nitrobenzene	38.4	5.00	ug/L	50.00		76.8	35-180		
N-Nitrosodimethylamine	22.1	5.00	ug/L	50.00		44.2	17-127		
N-Nitroso-Di-N-Propylamine	38.3	5.00	ug/L	50.00		76.6	43-230		
N-Nitrosodiphenylamine	51.9	5.00	ug/L	50.00		104	79-139		
Pentachlorophenol	40.1	5.00	ug/L	50.00		80.2	14-176		
Phenol	15.1	5.00	ug/L	50.00		30.3	5-120		
Pyrene	44.9	5.00	ug/L	50.00		89.8	52-120		
Surrogate: 2-Fluoroaniline	*27.8*		ug/L	*50.00*		*55.6*	*60-140*		
Surrogate: Phenol-D6	*14.5*		ug/L	*50.00*		*29.0*	*60-140*		
Surrogate: Naphthalene-D8	*35.2*		ug/L	*50.00*		*70.4*	*60-140*		
Surrogate: 1-Fluoronaphthalene	*33.4*		ug/L	*50.00*		*66.9*	*60-140*		
Surrogate: 2,4-Dibromophenol	*39.4*		ug/L	*50.00*		*78.8*	*60-140*		
Surrogate: Anthracene-D10	*33.5*		ug/L	*50.00*		*66.9*	*60-140*		
Surrogate: Chrysene-D12	*40.8*		ug/L	*50.00*		*81.7*	*60-140*		
LCS Dup (B302020-BSD2)									
Acenaphthene	40.4	5.00	ug/L	50.00		80.9	47-145	8.36	30
Acenaphthylene	39.0	5.00	ug/L	50.00		77.9	33-145	7.87	30
Anthracene	44.4	5.00	ug/L	50.00		88.9	27-133	2.41	30
Benzo(A)Anthracene	42.1	5.00	ug/L	50.00		84.1	33-143	2.55	30
Benzo(A)Pyrene	45.3	5.00	ug/L	50.00		90.6	17-163	0.443	30
Benzo(B)Fluoranthene	48.6	5.00	ug/L	50.00		97.1	24-159	0.558	30
Benzo(G,H,I)Perylene	48.3	5.00	ug/L	50.00		96.6	35-219	1.59	30
Benzo(K)Fluoranthene	46.4	5.00	ug/L	50.00		92.8	11-162	1.63	30
Chrysene	41.7	5.00	ug/L	50.00		83.5	17-168	3.36	30
Dibenzo(A,H)Anthracene	46.9	5.00	ug/L	50.00		93.8	33-227	1.24	30
Fluoranthene	46.3	5.00	ug/L	50.00		92.5	26-137	2.34	30
Fluorene	43.6	5.00	ug/L	50.00		87.1	59-121	0.575	30
Indeno(1,2,3-Cd)Pyrene	48.8	5.00	ug/L	50.00		97.6	39-171	2.55	30
Naphthalene	34.4	5.00	ug/L	50.00		68.9	21-133	2.07	30
Phenanthrene	45.9	5.00	ug/L	50.00		91.8	54-120	2.11	30
1,2,4-Trichlorobenzene	31.0	5.00	ug/L	50.00		61.9	44-142	2.11	30

Final Report

Project: Hyatt Ball Company - 2302011

Project Number: 2302011

NVOA GCMS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B302020									
LCS Dup (B302020-BSD2)									
2,4,6-Trichlorophenol	39.6	5.00	ug/L	50.00		79.3	37-144	3.96	30
2,4-Dichlorophenol	39.2	5.00	ug/L	50.00		78.5	39-135	0.845	30
2,4-Dimethylphenol	13.9	5.00	ug/L	50.00		27.7	32-120	41.7	30
2,4-Dinitrotoluene	49.7	5.00	ug/L	50.00		99.5	39-139	5.18	30
2,6-Dinitrotoluene	45.5	5.00	ug/L	50.00		90.9	50-158	2.65	30
2,4-Dinitrophenol	35.1	5.00	ug/L	50.00		70.3	21-191	4.48	30
2-Chloronaphthalene	37.6	5.00	ug/L	50.00		75.1	60-120	7.68	30
2-Chlorophenol	35.7	5.00	ug/L	50.00		71.3	23-134	9.27	30
2-Nitrophenol	41.2	5.00	ug/L	50.00		82.4	29-182	4.72	30
3,3'- Dichlorobenzidine	43.2	5.00	ug/L	50.00		86.4	38-262	4.77	30
4,6-Dinitro-2-Methylphenol	50.2	5.00	ug/L	50.00		100	17-181	6.27	30
4-Bromophenyl-Phenylether	46.1	5.00	ug/L	50.00		92.3	53-127	3.87	30
4-Chloro-3-Methylphenol	39.5	5.00	ug/L	50.00		78.9	22-147	6.07	30
4-Chlorophenyl-Phenylether	44.4	5.00	ug/L	50.00		88.9	25-158	2.41	30
4-Nitrophenol	19.8	5.00	ug/L	50.00		39.7	9-132	8.78	30
Bis(-2-Chloroethoxy)Methane	39.4	5.00	ug/L	50.00		78.8	33-184	0.0254	30
Bis(2-Chloroethyl)Ether	38.2	5.00	ug/L	50.00		76.3	12-158	11.6	30
Bis(2-Chloroisopropyl)Ether	34.3	5.00	ug/L	50.00		68.7	36-166	0.321	30
Bis(2-Ethylhexyl)Phthalate	54.4	5.00	ug/L	50.00		109	8-158	4.11	30
Butylbenzylphthalate	50.5	5.00	ug/L	50.00		101	38-152	3.08	30
Azobenzene	44.3	5.00	ug/L	50.00		88.7	60-115	0.338	30
Diethylphthalate	45.0	5.00	ug/L	50.00		90.0	31-114	1.05	30
Dimethyl Phthalate	37.2	5.00	ug/L	50.00		74.4	28-120	12.2	30
Di-N-Butyl Phthalate	50.7	5.00	ug/L	50.00		101	1-120	4.49	30
Di-N-Octyl Phthalate	51.0	5.00	ug/L	50.00		102	4-146	1.82	30
Hexachlorobenzene	44.6	5.00	ug/L	50.00		89.3	35-152	3.26	30
Hexachlorobutadiene	27.5	5.00	ug/L	50.00		54.9	24-120	5.32	30
Hexachlorocyclopentadiene	36.9	5.00	ug/L	50.00		73.7	15-76	9.38	30
Hexachloroethane	27.7	5.00	ug/L	50.00		55.4	40-120	0.434	30
Isophorone	45.5	5.00	ug/L	50.00		91.1	21-196	0.110	30
Nitrobenzene	38.5	5.00	ug/L	50.00		77.0	35-180	0.260	30
N-Nitrosodimethylamine	25.9	5.00	ug/L	50.00		51.8	17-127	15.8	30
N-Nitroso-Di-N-Propylamine	39.1	5.00	ug/L	50.00		78.1	43-230	1.96	30
N-Nitrosodiphenylamine	51.5	5.00	ug/L	50.00		103	79-139	0.832	30
Pentachlorophenol	42.0	5.00	ug/L	50.00		84.0	14-176	4.68	30

Final Report

Project: Hyatt Ball Company - 2302011

Project Number: 2302011

NVOA GCMS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B302020									
LCS Dup (B302020-BSD2)									
Phenol	17.0	5.00	ug/L	50.00		33.9	5-120	11.4	30
Pyrene	46.0	5.00	ug/L	50.00		91.9	52-120	2.27	30
Surrogate: 2-Fluoroaniline	*31.2*		ug/L	*50.00*		*62.5*	*60-140*		
Surrogate: Phenol-D6	*15.6*		ug/L	*50.00*		*31.2*	*60-140*		
Surrogate: Naphthalene-D8	*33.3*		ug/L	*50.00*		*66.6*	*60-140*		
Surrogate: 1-Fluoronaphthalene	*31.7*		ug/L	*50.00*		*63.4*	*60-140*		
Surrogate: 2,4-Dibromophenol	*37.5*		ug/L	*50.00*		*75.1*	*60-140*		
Surrogate: Anthracene-D10	*32.9*		ug/L	*50.00*		*65.8*	*60-140*		
Surrogate: Chrysene-D12	*40.1*		ug/L	*50.00*		*80.1*	*60-140*		
Matrix Spike (B302020-MS1)	**Source: 2302011-02**								
Acenaphthene	17.5	5.49	ug/L	54.95	ND	31.9	47-145		
Acenaphthylene	17.1	5.49	ug/L	54.95	ND	31.1	33-145		
Anthracene	17.5	5.49	ug/L	54.95	ND	31.9	27-133		
Benzo(A)Anthracene	21.7	5.49	ug/L	54.95	ND	39.4	33-143		
Benzo(A)Pyrene	16.5	5.49	ug/L	54.95	ND	30.0	17-163		
Benzo(B)Fluoranthene	23.5	5.49	ug/L	54.95	ND	42.8	24-159		
Benzo(G,H,I)Perylene	12.1	5.49	ug/L	54.95	ND	21.9	35-219		
Benzo(K)Fluoranthene	22.0	5.49	ug/L	54.95	ND	40.0	11-162		
Chrysene	22.4	5.49	ug/L	54.95	ND	40.8	17-168		
Dibenzo(A,H)Anthracene	15.5	5.49	ug/L	54.95	ND	28.2	33-227		
Fluoranthene	17.4	5.49	ug/L	54.95	ND	31.6	26-137		
Fluorene	19.5	5.49	ug/L	54.95	ND	35.4	59-121		
Indeno(1,2,3-Cd)Pyrene	14.7	5.49	ug/L	54.95	ND	26.8	39-171		
Naphthalene	17.9	5.49	ug/L	54.95	ND	32.7	21-133		
Phenanthrene	18.1	5.49	ug/L	54.95	ND	33.0	54-120		
1,2,4-Trichlorobenzene	17.4	5.49	ug/L	54.95	ND	31.6	44-142		
2,4,6-Trichlorophenol	13.3	5.49	ug/L	54.95	ND	24.1	37-144		
2,4-Dichlorophenol	14.2	5.49	ug/L	54.95	ND	25.8	39-135		
2,4-Dimethylphenol	19.7	5.49	ug/L	54.95	ND	35.8	32-120		
2,4-Dinitrotoluene	22.8	5.49	ug/L	54.95	ND	41.4	39-139		
2,6-Dinitrotoluene	20.0	5.49	ug/L	54.95	ND	36.3	50-158		
2,4-Dinitrophenol	20.2	5.49	ug/L	54.95	ND	36.7	21-191		
2-Chloronaphthalene	17.5	5.49	ug/L	54.95	ND	31.8	60-120		
2-Chlorophenol	--- U	5.49	ug/L	54.95	ND		23-134		

Final Report

Project: Hyatt Ball Company - 2302011

Project Number: 2302011

NVOA GCMS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B302020									
Matrix Spike (B302020-MS1)	**Source: 2302011-02**								
2-Nitrophenol	--- U	5.49	ug/L	54.95	ND		29-182		
3,3'- Dichlorobenzidine	--- U	5.49	ug/L	54.95	ND		38-262		
4,6-Dinitro-2-Methylphenol	16.5	5.49	ug/L	54.95	ND	29.9	17-181		
4-Bromophenyl-Phenylether	18.4	5.49	ug/L	54.95	ND	33.5	53-127		
4-Chloro-3-Methylphenol	261	5.49	ug/L	54.95	ND	475	22-147		
4-Chlorophenyl-Phenylether	19.3	5.49	ug/L	54.95	ND	35.1	25-158		
4-Nitrophenol	13.7	5.49	ug/L	54.95	ND	24.9	9-132		
Bis(-2-Chloroethoxy)Methane	--- U	5.49	ug/L	54.95	ND		33-184		
Bis(2-Chloroethyl)Ether	143	5.49	ug/L	54.95	ND	260	12-158		
Bis(2-Chloroisopropyl)Ether	--- U	5.49	ug/L	54.95	ND		36-166		
Bis(2-Ethylhexyl)Phthalate	32.2	5.49	ug/L	54.95	ND	58.5	8-158		
Butylbenzylphthalate	21.0	5.49	ug/L	54.95	ND	38.1	38-152		
Azobenzene	19.0	5.49	ug/L	54.95	ND	34.6	61-106		
Diethylphthalate	20.2	5.49	ug/L	54.95	ND	36.7	31-114		
Dimethyl Phthalate	17.9	5.49	ug/L	54.95	ND	32.5	28-120		
Di-N-Butyl Phthalate	19.0	5.49	ug/L	54.95	ND	34.6	1-120		
Di-N-Octyl Phthalate	29.5	5.49	ug/L	54.95	ND	53.6	4-146		
Hexachlorobenzene	17.9	5.49	ug/L	54.95	ND	32.6	35-152		
Hexachlorobutadiene	15.5	5.49	ug/L	54.95	ND	28.2	24-120		
Hexachlorocyclopentadiene	20.4	5.49	ug/L	54.95	ND	37.1	15-76		
Hexachloroethane	14.1	5.49	ug/L	54.95	ND	25.6	40-120		
Isophorone	21.9	5.49	ug/L	54.95	ND	39.8	21-196		
Nitrobenzene	13.7	5.49	ug/L	54.95	ND	24.9	35-180		
N-Nitrosodimethylamine	--- U	5.49	ug/L	54.95	ND		17-127		
N-Nitroso-Di-N-Propylamine	--- U	5.49	ug/L	54.95	ND		43-230		
N-Nitrosodiphenylamine	4.96	5.49	ug/L	54.95	ND	9.02	79-139		
Pentachlorophenol	13.2	5.49	ug/L	54.95	ND	24.0	14-176		
Phenol	--- U	5.49	ug/L	54.95	1370	NR	5-120		
Pyrene	17.0	5.49	ug/L	54.95	ND	30.9	52-120		
Surrogate: 2-Fluoroaniline	*ND*		ug/L	*54.95*			*60-140*		
Surrogate: Phenol-D6	*ND*		ug/L	*54.95*			*60-140*		
Surrogate: Naphthalene-D8	*19.4*		ug/L	*54.95*		*35.4*	*60-140*		
Surrogate: 1-Fluoronaphthalene	*18.9*		ug/L	*54.95*		*34.5*	*60-140*		
Surrogate: 2,4-Dibromophenol	*13.0*		ug/L	*54.95*		*23.7*	*60-140*		
Surrogate: Anthracene-D10	*14.8*		ug/L	*54.95*		*27.0*	*60-140*		

Final Report

Project: Hyatt Ball Company - 2302011

Project Number: 2302011

NVOA GCMS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B302020									
Matrix Spike (B302020-MS1)		**Source: 2302011-02**							
Surrogate: Chrysene-D12	*23.7*		ug/L	*54.95*		*43.2*	*60-140*		
Matrix Spike Dup (B302020-MSD1)		**Source: 2302011-02**							
Acenaphthene	22.2	5.56	ug/L	55.56	ND	39.9	47-145	23.5	24
Acenaphthylene	21.2	5.56	ug/L	55.56	ND	38.2	33-145	21.7	24
Anthracene	23.7	5.56	ug/L	55.56	ND	42.7	27-133	30.2	24
Benzo(A)Anthracene	27.0	5.56	ug/L	55.56	ND	48.6	33-143	21.8	24
Benzo(A)Pyrene	20.3	5.56	ug/L	55.56	ND	36.5	17-163	20.6	24
Benzo(B)Fluoranthene	28.6	5.56	ug/L	55.56	ND	51.6	24-159	19.7	24
Benzo(G,H,I)Perylene	15.1	5.56	ug/L	55.56	ND	27.2	35-219	22.5	24
Benzo(K)Fluoranthene	27.8	5.56	ug/L	55.56	ND	50.0	11-162	23.3	24
Chrysene	27.8	5.56	ug/L	55.56	ND	50.1	17-168	21.4	24
Dibenzo(A,H)Anthracene	19.3	5.56	ug/L	55.56	ND	34.8	33-227	22.0	24
Fluoranthene	21.9	5.56	ug/L	55.56	ND	39.4	26-137	23.2	24
Fluorene	26.8	5.56	ug/L	55.56	ND	48.3	59-121	31.9	24
Indeno(1,2,3-Cd)Pyrene	18.5	5.56	ug/L	55.56	ND	33.2	39-171	22.4	24
Naphthalene	16.2	5.56	ug/L	55.56	ND	29.1	21-133	10.3	24
Phenanthrene	24.9	5.56	ug/L	55.56	ND	44.8	54-120	31.4	24
1,2,4-Trichlorobenzene	13.7	5.56	ug/L	55.56	ND	24.7	44-142	23.3	24
2,4,6-Trichlorophenol	13.7	5.56	ug/L	55.56	ND	24.6	37-144	3.24	24
2,4-Dichlorophenol	13.1	5.56	ug/L	55.56	ND	23.6	39-135	7.72	24
2,4-Dimethylphenol	19.7	5.56	ug/L	55.56	ND	35.5	32-120	0.263	24
2,4-Dinitrotoluene	29.7	5.56	ug/L	55.56	ND	53.4	39-139	26.4	24
2,6-Dinitrotoluene	24.7	5.56	ug/L	55.56	ND	44.4	50-158	21.1	24
2,4-Dinitrophenol	19.1	5.56	ug/L	55.56	ND	34.4	21-191	5.59	24
2-Chloronaphthalene	20.7	5.56	ug/L	55.56	ND	37.3	60-120	17.1	24
2-Chlorophenol	2.81	5.56	ug/L	55.56	ND	5.06	23-134		24
2-Nitrophenol	--- U	5.56	ug/L	55.56	ND		29-182		24
3,3'- Dichlorobenzidine	--- U	5.56	ug/L	55.56	ND		38-262		24
4,6-Dinitro-2-Methylphenol	19.0	5.56	ug/L	55.56	ND	34.1	17-181	14.2	24
4-Bromophenyl-Phenylether	25.2	5.56	ug/L	55.56	ND	45.4	53-127	31.4	24
4-Chloro-3-Methylphenol	273	5.56	ug/L	55.56	ND	492	22-147	4.56	24
4-Chlorophenyl-Phenylether	26.2	5.56	ug/L	55.56	ND	47.1	25-158	30.3	24
4-Nitrophenol	14.3	5.56	ug/L	55.56	ND	25.8	9-132	4.65	24
Bis(-2-Chloroethoxy)Methane	--- U	5.56	ug/L	55.56	ND		33-184		24

Final Report

Project: Hyatt Ball Company - 2302011

Project Number: 2302011

NVOA GCMS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B302020									
Matrix Spike Dup (B302020-MSD1)	**Source: 2302011-02**								
Bis(2-Chloroethyl)Ether	152	5.56	ug/L	55.56	ND	274	12-158	6.36	24
Bis(2-Chloroisopropyl)Ether	--- U	5.56	ug/L	55.56	ND		36-166		24
Bis(2-Ethylhexyl)Phthalate	38.1	5.56	ug/L	55.56	ND	68.6	8-158	16.9	24
Butylbenzylphthalate	26.8	5.56	ug/L	55.56	ND	48.2	38-152	24.4	24
Azobenzene	25.8	5.56	ug/L	55.56	ND	46.5	61-106	30.4	24
Diethylphthalate	26.5	5.56	ug/L	55.56	ND	47.7	31-114	27.2	24
Dimethyl Phthalate	21.4	5.56	ug/L	55.56	ND	38.5	28-120	18.0	24
Di-N-Butyl Phthalate	25.9	5.56	ug/L	55.56	ND	46.6	1-120	30.7	24
Di-N-Octyl Phthalate	35.2	5.56	ug/L	55.56	ND	63.3	4-146	17.7	24
Hexachlorobenzene	22.9	5.56	ug/L	55.56	ND	41.2	35-152	24.4	24
Hexachlorobutadiene	10.3	5.56	ug/L	55.56	ND	18.5	24-120	40.2	24
Hexachlorocyclopentadiene	19.7	5.56	ug/L	55.56	ND	35.4	15-76	3.42	24
Hexachloroethane	5.50	5.56	ug/L	55.56	ND	9.90	40-120	87.6	24
Isophorone	27.7	5.56	ug/L	55.56	ND	49.8	21-196	23.5	24
Nitrobenzene	--- U	5.56	ug/L	55.56	ND		35-180		24
N-Nitrosodimethylamine	--- U	5.56	ug/L	55.56	ND		17-127		24
N-Nitroso-Di-N-Propylamine	--- U	5.56	ug/L	55.56	ND		43-230		24
N-Nitrosodiphenylamine	7.12	5.56	ug/L	55.56	ND	12.8	79-139	35.9	24
Pentachlorophenol	14.7	5.56	ug/L	55.56	ND	26.5	14-176	11.2	24
Phenol	1040	5.56	ug/L	55.56	1370	NR	5-120		24
Pyrene	21.6	5.56	ug/L	55.56	ND	38.9	52-120	24.1	24
Surrogate: 2-Fluoroaniline	*ND*		ug/L	*55.56*			*60-140*		
Surrogate: Phenol-D6	*ND*		ug/L	*55.56*			*60-140*		
Surrogate: Naphthalene-D8	*18.2*		ug/L	*55.56*		*32.8*	*60-140*		
Surrogate: 1-Fluoronaphthalene	*16.8*		ug/L	*55.56*		*30.2*	*60-140*		
Surrogate: 2,4-Dibromophenol	*13.5*		ug/L	*55.56*		*24.2*	*60-140*		
Surrogate: Anthracene-D10	*19.4*		ug/L	*55.56*		*34.8*	*60-140*		
Surrogate: Chrysene-D12	*30.1*		ug/L	*55.56*		*54.2*	*60-140*		

Final Report

Project: Hyatt Ball Company - 2302011

Project Number: 2302011

Metals ICP - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B302068									
Blank (B302068-BLK1)									
Aluminum	--- U	100	ug/L						
Antimony	--- U	20.0	ug/L						
Arsenic	--- U	8.00	ug/L						
Barium	--- U	100	ug/L						
Beryllium	--- U	3.00	ug/L						
Cadmium	--- U	3.00	ug/L						
Calcium	--- U	500	ug/L						
Chromium	--- U	5.00	ug/L						
Cobalt	--- U	20.0	ug/L						
Copper	--- U	10.0	ug/L						
Iron	--- U	50.0	ug/L						
Lead	--- U	8.00	ug/L						
Magnesium	--- U	500	ug/L						
Manganese	--- U	5.00	ug/L						
Molybdenum	--- U	10.0	ug/L						
Nickel	--- U	20.0	ug/L						
Potassium	--- U	500	ug/L						
Selenium	--- U	20.0	ug/L						
Silver	--- U	5.00	ug/L						
Sodium	--- U	1000	ug/L						
Thallium	--- U	20.0	ug/L						
Vanadium	--- U	20.0	ug/L						
Zinc	--- U	20.0	ug/L						
LCS (B302068-BS1)									
Aluminum	4500	100	ug/L	5000		90.1	85-115		
Antimony	193	20.0	ug/L	200.0		96.6	85-115		
Arsenic	187	8.00	ug/L	200.0		93.4	85-115		
Barium	198	100	ug/L	200.0		98.9	85-115		
Beryllium	194	3.00	ug/L	200.0		97.2	85-115		
Boron	188	10.0	ug/L	200.0		94.1	85-115		
Cadmium	194	3.00	ug/L	200.0		97.1	85-115		
Calcium	4450	500	ug/L	5000		89.0	85-115		
Chromium	196	5.00	ug/L	200.0		97.8	85-115		
Cobalt	195	20.0	ug/L	200.0		97.5	85-115		

Final Report

Project: Hyatt Ball Company - 2302011

Project Number: 2302011

Metals ICP - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B302068									
LCS (B302068-BS1)									
Copper	194	10.0	ug/L	200.0		97.1	85-115		
Iron	4470	50.0	ug/L	5000		89.3	85-115		
Lead	196	8.00	ug/L	200.0		97.8	85-115		
Magnesium	4450	500	ug/L	5000		89.0	85-115		
Manganese	193	5.00	ug/L	200.0		96.7	85-115		
Molybdenum	195	10.0	ug/L	200.0		97.5	85-115		
Nickel	196	20.0	ug/L	200.0		98.0	85-115		
Potassium	4470	500	ug/L	5000		89.5	85-115		
Selenium	190	20.0	ug/L	200.0		95.1	85-115		
Silver	195	5.00	ug/L	200.0		97.3	85-115		
Sodium	4340	1000	ug/L	5000		86.8	85-115		
Strontium	201	10.0	ug/L	200.0		101	85-115		
Thallium	192	20.0	ug/L	200.0		96.1	85-115		
Tin	198	10.0	ug/L	200.0		99.0	85-115		
Titanium	196	10.0	ug/L	200.0		97.9	85-115		
Vanadium	197	20.0	ug/L	200.0		98.4	85-115		
Zinc	192	20.0	ug/L	200.0		96.0	85-115		
LCS Dup (B302068-BSD1)									
Aluminum	4550	100	ug/L	5000		91.1	85-115	1.12	20
Antimony	193	20.0	ug/L	200.0		96.7	85-115	0.0310	20
Arsenic	188	8.00	ug/L	200.0		93.8	85-115	0.438	20
Barium	199	100	ug/L	200.0		99.5	85-115	0.564	20
Beryllium	196	3.00	ug/L	200.0		97.9	85-115	0.620	20
Boron	189	10.0	ug/L	200.0		94.5	85-115	0.493	20
Cadmium	195	3.00	ug/L	200.0		97.4	85-115	0.396	20
Calcium	4500	500	ug/L	5000		90.0	85-115	1.10	20
Chromium	196	5.00	ug/L	200.0		98.2	85-115	0.378	20
Cobalt	196	20.0	ug/L	200.0		97.9	85-115	0.415	20
Copper	195	10.0	ug/L	200.0		97.4	85-115	0.375	20
Iron	4520	50.0	ug/L	5000		90.3	85-115	1.09	20
Lead	195	8.00	ug/L	200.0		97.7	85-115	0.0870	20
Magnesium	4510	500	ug/L	5000		90.1	85-115	1.28	20
Manganese	194	5.00	ug/L	200.0		97.1	85-115	0.382	20
Molybdenum	195	10.0	ug/L	200.0		97.4	85-115	0.0308	20

Final Report

Project: Hyatt Ball Company - 2302011

Project Number: 2302011

Metals ICP - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B302068									
LCS Dup (B302068-BSD1)									
Nickel	196	20.0	ug/L	200.0		98.2	85-115	0.204	20
Potassium	4530	500	ug/L	5000		90.6	85-115	1.18	20
Selenium	194	20.0	ug/L	200.0		97.0	85-115	1.96	20
Silver	197	5.00	ug/L	200.0		98.7	85-115	1.36	20
Sodium	4390	1000	ug/L	5000		87.8	85-115	1.21	20
Strontium	203	10.0	ug/L	200.0		101	85-115	0.609	20
Thallium	191	20.0	ug/L	200.0		95.4	85-115	0.663	20
Tin	200	10.0	ug/L	200.0		99.8	85-115	0.734	20
Titanium	196	10.0	ug/L	200.0		98.2	85-115	0.331	20
Vanadium	197	20.0	ug/L	200.0		98.7	85-115	0.315	20
Zinc	193	20.0	ug/L	200.0		96.6	85-115	0.639	20
Matrix Spike (B302068-MS1)		**Source: 2302011-02**							
Lead	205	8.00	ug/L	200.0	22.1	91.7	80-120		
Zinc	669	20.0	ug/L	200.0	481	93.8	80-120		
Matrix Spike Dup (B302068-MSD1)		**Source: 2302011-02**							
Lead	224	40.0	ug/L	200.0	22.1	101	80-120	8.66	10
Zinc	717	100	ug/L	200.0	481	118	80-120	6.88	10

Final Report

Project: Hyatt Ball Company - 2302011

Project Number: 2302011

Sanitary - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B302069									
Blank (B302069-BLK1)									
Cyanide, Total	--- U	10.0	ug/L						
Blank (B302069-BLK2)									
Cyanide, Total	--- U	10.0	ug/L						
LCS (B302069-BS1)									
Cyanide, Total	770	10.0	ug/L	796.0		97	90-110		
LCS Dup (B302069-BSD1)									
Cyanide, Total	743	10.0	ug/L	796.0		93	90-110	4	20
Matrix Spike (B302069-MS1)	**Source: 2302011-02**								
Cyanide, Total	--- U	10.0	ug/L	500.0	ND		90-110		

US EPA REGION 2 LABORATORY

CHAIN OF CUSTODY/ FIELD DATA FORM

SURVEY NAME & LOCALITY Hyatt Ball Company - Fort Edward, NY

PROJECT LEADER Bob Morrell

PROGRAM: SF ☐ : SITE ID _____ OPERABLE UNIT _____ PROGRAM RESULTS CODE _____

Decision Unit Code	RCRA ☐	RCRA ENF ☐	NPDES ☑	SDWA ☐	AM ☐	CAA ☐	TSCA ☐	OD ☐	FIFRA ☐	CRIMINAL ENF ☐
Y206	D210	D307	B304	C215	B224	A305	L306	B253		

Permit #: Pretreatment

LAB ID/ FIELD ID	# OF CONTAINERS	MATRIX	CHECK IF SPLIT SAMPLE	DESCRIPTION & INSTRUCTIONS INCLUDING LOCATION, ESTIMATED CONCENTRATIONS, SPECIAL REPORTING LIMITS,	Res CL Checked	Preservative (circle)	Collection Time (24hr clock) Begin	Collection Time (24hr clock) End	Collection Date mm/dd/yy
Trip Blank	3	A	☐	3 40-ml glass vials for VOA's	☐	0 1 2 3 4 5 6 7 8 9 10		1210	02/09/23
Receiving Tank Grab	14	A	☑	1 125-ml plastic jar for Cyanide	☐	0 1 2 3 4 5 6 7 8 9 10		1246	02/09/23
			☑	1 250-ml plastic jar for Metals (Pb, Zn)	☐	0 1 2 3 4 5 6 7 8 9 10			
			☑	3 1-liter amber glass jars for NVOA's	☐	0 1 2 3 4 5 6 7 8 9 10			
			☑	9 40-ml glass vials for VOA's	☐	0 1 2 3 4 5 6 7 8 9 10			
			☐		☐	0 1 2 3 4 5 6 7 8 9 10			
			☐		☐	0 1 2 3 4 5 6 7 8 9 10			
			☐		☐	0 1 2 3 4 5 6 7 8 9 10			
			☐		☐	0 1 2 3 4 5 6 7 8 9 10			
			☐		☐	0 1 2 3 4 5 6 7 8 9 10			

COMMENTS & SPECIAL REQUIREMENTS:

* VOA's and NVOA's are listed in 40 CFR Section 414.111.

Preservative Added & Checked

0=ice	7=FAS
1=H_2SO_4 pH<2	8=ZnAc
2=HNO_3 pH<2	9=NaOH pH>12
3=HCl pH<2	10=NH_4Cl
4=$Na_2S_2O_3$	
5=NaOH pH>9	
6=Ascorbic Acid	

	Time	Date
Person Assuming Responsibility for Sample(s): Robert A. Morrell	1246	2/9/23
Relinquished By: Robert A. Morrell / Received By:	18:00	2/9/23
Relinquished By: / Received By:		
Relinquished By: / Received By:		

Matrix:

A=aqueous	F=multiphasic
B=aqueous (chlorinated)	G=solvent
C=soil	H=biota
D=sediment	I=oil
E=sludge	J=other

Survey Complete? Y ☑ N ☐

Direct flow sampling, chilling initiated. 2/9/23

revised 10/25/2004