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OMNNI ASSOCIATES, INC.
ONE SYSTEMS DRIVE
APPLETON, WI 54914-1654
800-571-6677 • 920-735-6900
FAX 920-830-6100
WWW.OMNNI.COM

R + R - OSH
RECEIVED
APR 17 2009
TRACKED ☑ 43
REVIEWED ☑ MB
Brief

April 16, 2009

Mr. Chris F. Stempa
Pretreatment and Biosolids Manager
Appleton Wastewater Treatment Facility
2006 East Newberry Street
Appleton, WI 54915-2758

RE: N.W. Mauthe Superfund Site – Appleton, Wisconsin
Local Limit Compliance Report, Industrial User (Wastewater Discharge)
Permit # 06-21

Dear Mr. Stempa:

OMNNI Associates, Inc. is pleased to submit the local limit compliance report for the N.W. Mauthe site, 725 Outagamie Street, Appleton, Wisconsin. This report is submitted in accordance with the City of Appleton Industrial User Permit No. 06-21, issued on May 26, 2006. I performed the sample collection[1] on April 7, 2009, at 6:20 a.m.

The sampling activities were conducted at the effluent discharge point, prior to Outfall 001. Samples were collected by closing the discharge valve the day prior to sampling to allow water to collect in the equalization tank. Approximately 19 hours later, the discharge valve was reopened and water was allowed to flow out of the equalization tank for approximately 10 minutes prior to sample collection.

From the sample collected, two new, laboratory provided, plastic 250 ml sample containers were filled with unfiltered sample. One sample container contained sodium hydroxide as a preservative. The water from this container was analyzed for cyanide by Pace Analytical Services laboratory. One sample container contained nitric acid as a preservative. The water from this container was analyzed for aluminum, arsenic, cadmium, chromium, copper, lead, mercury, nickel, and zinc by Pace Analytical Services laboratory. (See laboratory chain of custody and laboratory report, Attached.)

[1] Brian Wayner is a professional engineer (E35304), has been trained in sample collection and preparation, has obtained his OSHA 40-Hour HAZWOPER Certification, and has completed annual refresher training.

Industrial User (Wastewater Discharge) Permit 06-21 Outfall 001 Effluent Limitations:

Parameter	Daily Maximum	Laboratory Analysis
Aluminum, total	70.0 mg/L	<0.0151 mg/L
Arsenic, total	1.0 mg/L	<0.003 J mg/L
Cadmium, total	0.3 mg/L	<0.00040 J mg/L
Chromium, total	7.0 mg/L	0.767 mg/L
Copper, total	3.5 mg/L	<0.0024 J mg/L
Cyanide, total	1.0 mg/L	<0.0060 mg/L
Lead, total	2.0 mg/L	<0.0014 mg/L
Mercury, total	2.0 µg/L	<0.10 µg/L
Nickel, total	2.0 mg/L	0.0016 J mg/L
Zinc, total	10.0 mg/L	0.0137 J mg/L

There were no exceedances during this reporting period of the Industrial User (Wastewater Discharge) Permit from Outfall 001 based on the monitoring performed.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

If you have any questions regarding the information provided, please do not hesitate to contact me.

Sincerely,
OMNNI Associates, Inc.

Brian D. Wayner, P.E.
Environmental Manager

Enclosures

cc: Ms. Jennifer Borski, Hydrogeologist/Project Manager, WDNR-Northeast Region RR, 625 E. County Road Y, Suite 700, Oshkosh, WI 54901-9731

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

April 15, 2009

Brian Wayner
Omnni Associates, Inc.
One Systems Drive
Appleton, WI 549141654

RE: Project: N1866 A05/006 MAUTHE
Pace Project No.: 4015767

Dear Brian Wayner:
Enclosed are the analytical results for sample(s) received by the laboratory on April 07, 2009. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Steven Mleczko

steve.mleczko@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: N1866 A05/006 MAUTHE
Pace Project No.: 4015767

Green Bay Certification IDs

Wisconsin DATCP Certification #: 105-444
Wisconsin DATCP Certification #: 105-444
Wisconsin Certification #: 405132750
Wisconsin Certification #: 405132750
South Carolina Certification #: 83006001
South Carolina Certification #: 83006001
North Dakota Certification #: R-200
North Dakota Certification #: R-150
North Carolina Certification #: 503
North Carolina Certification #: 503
New York Certification #: 11888
New York Certification #: 11887
Minnesota Certification #: 055-999-334
Minnesota Certification #: 055-999-334
Louisiana Certification #: 04169
Louisiana Certification #: 04168
Kentucky Certification #: 83
Kentucky Certification #: 82
Illinois Certification #: 200051
Illinois Certification #: 200050
Florida/NELAP Certification #: E87951
Florida/NELAP Certification #: E87948

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SAMPLE SUMMARY

Project: N1866 A05/006 MAUTHE
Pace Project No.: 4015767

Lab ID	Sample ID	Matrix	Date Collected	Date Received
4015767001	**OUTFALL 001**	Water	04/07/09 06:20	04/07/09 13:55

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SAMPLE ANALYTE COUNT

Project: N1866 A05/006 MAUTHE
Pace Project No.: 4015767

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
4015767001	**OUTFALL 001**	EPA 335.4	DAW	1	PASI-G
		EPA 6010	DLB	8	PASI-G
		EPA 6010	DLB	1	PASI-G
		EPA 7470	LMS	1	PASI-G
		SM 3500-Cr B (Online)	DEY	1	PASI-G

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ANALYTICAL RESULTS

Project: N1866 A05/006 MAUTHE
Pace Project No.: 4015767

Sample: OUTFALL 001 **Lab ID: 4015767001** Collected: 04/07/09 06:20 Received: 04/07/09 13:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Aluminum	**<15.1**	ug/L	500	15.1	1	04/08/09 08:10	04/08/09 20:48	7429-90-5	
Arsenic	**3.0J**	ug/L	20.0	1.2	1	04/08/09 08:10	04/08/09 20:48	7440-38-2	
Cadmium	**0.40J**	ug/L	5.0	0.13	1	04/08/09 08:10	04/08/09 20:48	7440-43-9	
Chromium	**767**	ug/L	5.0	1.1	1	04/08/09 08:10	04/08/09 20:48	7440-47-3	
Copper	**2.4J**	ug/L	10.0	0.49	1	04/08/09 08:10	04/08/09 20:48	7440-50-8	
Lead	**<1.4**	ug/L	10.0	1.4	1	04/08/09 08:10	04/08/09 20:48	7439-92-1	
Nickel	**1.6J**	ug/L	10.0	0.15	1	04/08/09 08:10	04/08/09 20:48	7440-02-0	
Zinc	**13.7J**	ug/L	40.0	2.6	1	04/08/09 08:10	04/08/09 20:48	7440-66-6	
6010 MET ICP, Dissolved	Analytical Method: EPA 6010								
Chromium, Dissolved	**730**	ug/L	5.0	0.57	1		04/08/09 23:33	7440-47-3	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	**<0.10**	ug/L	0.20	0.10	1	04/14/09 14:14	04/15/09 15:00	7439-97-6	
335.4 Cyanide, Tot. Dissolved	Analytical Method: EPA 335.4								
Cyanide, Dissolved	**<0.0060**	mg/L	0.020	0.0060	1		04/14/09 12:42	57-12-5	
Chromium, Hexavalent	Analytical Method: SM 3500-Cr B (Online)								
Chromium, Hexavalent	**0.84**	mg/L	0.20	0.034	10		04/07/09 15:00	18540-29-9	

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QUALITY CONTROL DATA

Project: N1866 A05/006 MAUTHE
Pace Project No.: 4015767

QC Batch: WETA/3576
QC Batch Method: SM 3500-Cr B (Online)
Analysis Method: SM 3500-Cr B (Online)
Analysis Description: Chromium, Hexavalent by 3500
Associated Lab Samples: 4015767001

METHOD BLANK: 143356 Matrix: Water
Associated Lab Samples: 4015767001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chromium, Hexavalent	mg/L	<0.0034	0.020	04/07/09 15:00	

LABORATORY CONTROL SAMPLE: 143357

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chromium, Hexavalent	mg/L	3	0.31	104	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 143358 143359

Parameter	Units	4015767001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chromium, Hexavalent	mg/L	0.84	3	3	3.9	4.0	102	107	90-110	3	20	

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QUALITY CONTROL DATA

Project: N1866 A05/006 MAUTHE
Pace Project No.: 4015767

QC Batch: MPRP/2414
QC Batch Method: EPA 3010
Analysis Method: EPA 6010
Analysis Description: 6010 MET
Associated Lab Samples: 4015767001

METHOD BLANK: 143636 Matrix: Water
Associated Lab Samples: 4015767001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	<15.1	500	04/08/09 20:40	
Arsenic	ug/L	<1.2	20.0	04/08/09 20:40	
Cadmium	ug/L	<0.13	5.0	04/08/09 20:40	
Chromium	ug/L	<1.1	5.0	04/08/09 20:40	
Copper	ug/L	<0.49	10.0	04/08/09 20:40	
Lead	ug/L	<1.4	10.0	04/08/09 20:40	
Nickel	ug/L	<0.15	10.0	04/08/09 20:40	
Zinc	ug/L	<2.6	40.0	04/08/09 20:40	

LABORATORY CONTROL SAMPLE: 143637

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	5000	4720	94	80-120	
Arsenic	ug/L	500	476	95	80-120	
Cadmium	ug/L	500	473	95	80-120	
Chromium	ug/L	500	490	98	80-120	
Copper	ug/L	500	483	97	80-120	
Lead	ug/L	500	488	98	80-120	
Nickel	ug/L	500	494	99	80-120	
Zinc	ug/L	500	488	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 143638 143639

Parameter	Units	4015767001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aluminum	ug/L	<15.1	5000	5000	4740	4810	95	96	75-125	1	20	
Arsenic	ug/L	3.0J	500	500	488	491	97	98	75-125	.7	20	
Cadmium	ug/L	0.40J	500	500	481	482	96	96	75-125	.2	20	
Chromium	ug/L	767	500	500	1230	1210	93	89	75-125	2	20	
Copper	ug/L	2.4J	500	500	485	479	97	95	75-125	1	20	
Lead	ug/L	<1.4	500	500	471	468	94	93	75-125	.6	20	
Nickel	ug/L	1.6J	500	500	479	475	95	95	75-125	.8	20	
Zinc	ug/L	13.7J	500	500	471	470	91	91	75-125	.1	20	

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QUALITY CONTROL DATA

Project: N1866 A05/006 MAUTHE
Pace Project No.: 4015767

QC Batch: ICP/2113
QC Batch Method: EPA 6010
Analysis Method: EPA 6010
Analysis Description: ICP Metals, Trace, Dissolved
Associated Lab Samples: 4015767001

METHOD BLANK: 143804 Matrix: Water
Associated Lab Samples: 4015767001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chromium, Dissolved	ug/L	<0.57	5.0	04/08/09 21:46	

LABORATORY CONTROL SAMPLE: 143805

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chromium, Dissolved	ug/L	500	493	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 143806 143807

Parameter	Units	4015777001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chromium, Dissolved	ug/L	<0.57	500	500	485	482	97	96	75-125	.7	20	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: N1866 A05/006 MAUTHE
Pace Project No.: 4015767

QC Batch: WETA/3610
QC Batch Method: EPA 335.4
Analysis Method: EPA 335.4
Analysis Description: 335.4 Cyanide, Total Dissolved
Associated Lab Samples: 4015767001

METHOD BLANK: 145440 Matrix: Water
Associated Lab Samples: 4015767001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cyanide	mg/L	<0.0060	0.020	04/14/09 12:30	

LABORATORY CONTROL SAMPLE: 145441

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cyanide	mg/L	.1	0.11	106	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 145442 145443

Parameter	Units	4015605002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Cyanide	mg/L		.6	.6	0.63	0.62	101	101	90-110	.5	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 145444 145445

Parameter	Units	4015986002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Cyanide	mg/L		.1	.1	0.12	0.11	115	106	90-110	8	20	M0

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QUALITY CONTROL DATA

Project: N1866 A05/006 MAUTHE
Pace Project No.: 4015767

QC Batch: MERP/1492
QC Batch Method: EPA 7470
Analysis Method: EPA 7470
Analysis Description: 7470 Mercury
Associated Lab Samples: 4015767001

METHOD BLANK: 145779
Matrix: Water
Associated Lab Samples: 4015767001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	<0.10	0.20	04/15/09 14:53	

LABORATORY CONTROL SAMPLE: 145780

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	5.4	108	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 145781 145782

Parameter	Units	4015955001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	<0.10	5	5	3.7	3.6	73	73	85-115	1	20	M0

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: N1866 A05/006 MAUTHE
Pace Project No.: 4015767

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

U - Indicates the compound was analyzed for, but not detected.

LABORATORIES

PASI-G Pace Analytical Services - Green Bay

ANALYTE QUALIFIERS

M0 Matrix spike recovery was outside laboratory control limits.

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(Please Print Clearly)

Company Name:	OMNNI Associates
Branch/Location:	APPLETON
Project Contact:	BRIAN WAYNER
Phone:	920-830-6141
Project Number:	N1866 A05/006
Project Name:	MAUTHE
Project State:	WI
Sampled By (Print):	BRIAN WAYNER
Sampled By (Sign):	B. D. Wayner
PO #:	Regulatory Program:

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CHAIN OF CUSTODY

UPPER MIDWEST REGION
MN: 612-607-1700 WI: 920-469-2436

Page 1 of 1

*Preservation Codes
A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

Quote #:	MAUTHE 100708
Mail To Contact:	BRIAN WAYNER
Mail To Company:	OMNNI ASSOCIATES
Mail To Address:	ONE SYSTEMS DR APPLETON, WI 54914
Invoice To Contact:	BRIAN WAYNER
Invoice To Company:	OMNNI ASSOCIATES
Invoice To Address:	SAME
Invoice To Phone:	920-830-6141

Data Package Options (billable)
☐ EPA Level III
☐ EPA Level IV

MS/MSD
☐ On your sample (billable)
☐ NOT needed on your sample

Matrix Codes
A = Air, B = Biota, C = Charcoal, O = Oil, S = Soil, Sl = Sludge
W = Water, DW = Drinking Water, GW = Ground Water, SW = Surface Water, WW = Waste Water, WP = Wipe

					Analyses Requested	Hexavalent Chromium	Chromium	Total Cyanide	Totals: Aluminum	Arsenic	Cadmium	Chromium	Copper	Lead	Mercury	Nickel	Zinc			
FILTERED? (YES/NO)						N	Y	N	N	N		N		N		N				
PRESERVATION (CODE)*					Pick Letter	A	D	G	D	D		D		D		D				
PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX														CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
001	OUTFALL 001	4/7/09	6:20	GW		X	X	X	X	X	X	X	X	X	X	X	X	4 containers	4-250ml A, D, D, G	

Rush Turnaround Time Requested - Prelims
(Rush TAT subject to approval/surcharge)
Date Needed:

Transmit Prelim Rush Results by (complete what you want):

Email #1:	
Email #2:	
Telephone:	
Fax:	

Samples on HOLD are subject to special pricing and release of liability

Relinquished By:	Date/Time:	Received By:	Date/Time:
B. D. Wayner	4/7/09 7:15am	B Kemper	4/7/09 0915
B Kemper	4/7/09 1355	[illegible signature]	

PACE Project No. 405767

Receipt Temp = RO(°C

Sample Receipt pH OK / Adjusted

Cooler Custody Seal Present / Not Present Intact / Not Intact

Version 6.0 06/14/06

C019a(27Jun2006)

ORIGINAL

Sample Condition Upon Receipt

Pace Analytical

Client Name: Omni Project # 405767

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☒ Pace Other _____

Tracking #: _____

Custody Seal on Cooler/Box Present: ☐ yes ☒ no Seals Intact: ☐ yes ☐ no

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☒ None ☐ Other _____

Thermometer Used _____ Type of Ice: (Wet) Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature RO1 Biological Tissue is Frozen: Yes No

Temp should be above freezing to 6°C Comments:

Date and Initials of person examining contents: 4/7/09 MEN

Chain of Custody Present:	☒Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☒Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☒Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☒Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☒Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☒Yes ☐No ☐N/A	6. Cr+6
Rush Turn Around Time Requested:	☐Yes ☒No ☐N/A	7.
Sufficient Volume:	☒Yes ☐No ☐N/A	8.
Correct Containers Used:	☒Yes ☐No ☐N/A	9.
-Pace Containers Used:	☒Yes ☐No ☐N/A	
Containers Intact:	☒Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☒Yes ☐No ☐N/A	11.
Sample Labels match COC:	☒Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: W		
All containers needing preservation have been checked.	☒Yes ☐No ☐N/A	13. 1mL HNO3 added to 1-250mlPP
All containers needing preservation are found to be in compliance with EPA recommendation.	☒Yes ☐No ☐N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes ☐No	Initial when completed MEN Lot # of added preservative E2707
Samples checked for dechlorination:	☐Yes ☐No ☒N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☐No ☒N/A	15.
Trip Blank Present:	☐Yes ☐No ☒N/A	16.
Trip Blank Custody Seals Present	☐Yes ☐No ☒N/A	
Pace Trip Blank Lot # (If purchased): _____		

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ **Date:** 4/7/09

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)