



**GS GROUP LLC**  
Green S.P.A.C.E.S Protect Our Earth

## **Cole's Castle Daycare Water Sampling Lead Analysis Report**

### **1. INTRODUCTION**

#### **1.1. GENERAL**

This report presents the results of our water sampling performed at the site of Cole's Castle Daycare, 16605 E. Warren, Detroit, MI., on May 16th, 2016. The sample results taken in conjunction with this investigation are also presented on Appendix 1.

#### **1.2. OBJECTIVES AND SCOPE**

In general, the objectives of this investigation were to:

Accurately evaluate water outlets for lead above the EPA Maximum Contaminate Level (MCL).

#### **1.3. AUTHORIZATION**

Authorization was provided by phone for our Professional Services by Catrina Hurst on April 18<sup>th</sup>, 2016.

### **2. SITE INVESTIGATIONS**

#### **2.1. FIELD PROGRAM**

In order to sample and evaluate water, GSES took six samples, a First Draw sample and a Flush sample, from three different locations on the site.

The field portion of our investigation was under control and continual supervision of an experienced member of our field scientist staff.

#### **2.2 LABORATORY TESTING**

##### **2.2.1. General**

In accordance with ASTM D3559 and the U.S. Environmental Protection Agency guidelines for lead in drinking water at schools and child care facilities, we took two samples: first draw and flush, which is the required testing standard for drinking water lead contamination.



**GS GROUP LLC**  
Green S.P.A.C.E.S Protect Our Earth

Results of the tests indicate that the water is below the threshold for lead contamination. A copy of the lab report and Chain of Custody is attached (Appendix 1).

### **3. DISCUSSIONS AND RECOMMENDATIONS**

#### **3.1. DISCUSSIONS OF FINDINGS**

The water results are below the threshold for lead contamination.

We appreciate the opportunity of providing this service for you. If you have any questions concerning this report or require additional information, please do not hesitate to contact the undersigned.

Respectfully submitted,

Michael Etters  
Field Scientist

Monica Starks, CIEC  
Principal

Council-certified Indoor Environmental  
Consultant Board-awarded by the  
American Council for Accredited  
Certification



Appendix 1, Lab Results, Chain of Custody

17800 Woodward Ave Suite 200  
Detroit, MI 48203

Laboratory ID: 0055

**National Testing Laboratories, Ltd**  
556 South Mansfield, Ypsilanti, MI, 48197-5166  
(440) 449-2525, Fax: (440) 449-8585

**ANALYTICAL REPORTS**

**SAMPLE CODE: 355022**  
**5/25/2016**

*16605 E. Warren*

**Customer:** G. S. Group  
Monica Starks  
17800 Woodward Ave  
#200  
Detroit, MI 48203

**Source:** Cole's Castle, DC-01-KC-01-P  
**Source City:** Detroit  
**Source State:** MI

**Date/Time Received:** 5/16/2016 14:00  
**Collected by:** M. Etters

The results herein conform to TNI and ISO/IEC 17025:2005 standards, where applicable, unless otherwise narrated in the body of the report. The uncertainty of the test results are available upon request. All Dates and Times are reported as U.S. Eastern Time.

**Legend:**

Any 'Level Detected' marked with an asterisk (\*) indicates that the value has exceeded the EPA Maximum Contaminant Level (MCL) or one of the Standards of Quality.

- "ND" This contaminant was not detected at or above our lower reporting limit (LRL)
- "NA" Not Analyzed
- "Standard" This column indicates either the Maximum Contaminant Level (MCL) for EPA Primary Standards or the guideline values for EPA Secondary Standards.
- "LRL" This column indicates the Lower Reporting Limit, which is the lowest level that the laboratory can detect a contaminant.
- "DF" This column indicates the contaminant dilution factor.

**Report Notes:**

Fed Id #	Contaminant	Method	Standard	Units	LRL	Level Detected	DF	Date/Time Sampled	Date Prepped	Date/Time Analyzed
<b>Inorganic Analytes - Metals</b>										
1030	Lead	200.8	0.015	mg/L	0.001	ND	1	5/11/2016 07:17		5/20/2016

These test results may be used for compliance purpose as required.

Analyst	Tests
EC	200.8



James Abston, Operations Manager

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**ANALYTICAL REPORTS**

**SAMPLE CODE: 355023**

**5/25/2016**

**Customer:** G. S. Group  
Monica Starks  
17800 Woodward Ave  
#200  
Detroit, MI 48203

**Source:** Cole's Castle, DC-01-KC-01-F  
**Source City:** Detroit  
**Source State:** MI

**Date/Time Received:** 5/16/2016 14:00

**Collected by:** M. Eilers

The results herein conform to TNI and ISO/IEC 17025:2005 standards, where applicable, unless otherwise narrated in the body of the report. The uncertainty of the test results are available upon request. All Dates and Times are reported as U.S. Eastern Time.

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"LRL" This column indicates the Lower Reporting Limit, which is the lowest level that the laboratory can detect a contaminant.

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**Report Notes:**

Fed Id #	Contaminant	Method	Standard	Units	LRL	Level Detected	DF	Date/Time Sampled	Date Prepped	Date/Time Analyzed
<b>Inorganic Analytes - Metals</b>										
1030	Lead	200.8	0.015	mg/L	0.001	ND	1	5/11/2016 07:17		5/20/2016

These test results may be used for compliance purpose as required.

Analyst	Tests
EC	200.8

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**ANALYTICAL REPORTS**

**SAMPLE CODE: 355024**

**5/25/2016**

**Customer:** G. S. Group  
Monica Starks  
17800 Woodward Ave  
#200  
Detroit, MI 48203

**Source:** Cole's Castle, DC-01-CBF-02-P  
**Source City:** Detroit  
**Source State:** MI

**Date/Time Received:** 5/16/2016 14:00

**Collected by:** M. Etters

The results herein conform to TNI and ISO/IEC 17025:2005 standards, where applicable, unless otherwise narrated in the body of the report. The uncertainty of the test results are available upon request. All Dates and Times are reported as U.S. Eastern Time.

**Legend:**

Any 'Level Detected' marked with an asterisk (\*) indicates that the value has exceeded the EPA Maximum Contaminant Level (MCL) or one of the Standards of Quality.

"ND" This contaminant was not detected at or above our lower reporting limit (LRL)

"NA" Not Analyzed

"Standard" This column indicates either the Maximum Contaminant Level (MCL) for EPA Primary Standards or the guideline values for EPA Secondary Standards.

"LRL" This column indicates the Lower Reporting Limit, which is the lowest level that the laboratory can detect a contaminant.

"DF" This column indicates the contaminant dilution factor.

**Report Notes:**

Fed Id #	Contaminant	Method	Standard	Units	LRL	Level Detected	DF	Date/Time Sampled	Date Prepped	Date/Time Analyzed
<b>Inorganic Analytes - Metals</b>										
1030	Lead	200.8	0.015	mg/L	0.001	0.003	1	5/11/2016 07:17		5/20/2016

These test results may be used for compliance purpose as required.

Analyst	Tests
EC	200.8



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**ANALYTICAL REPORTS**

**SAMPLE CODE: 355025**

**5/25/2016**

**Customer:** G. S. Group  
 Monica Starks  
 17800 Woodward Ave  
 #200  
 Detroit, MI 48203

**Source:** Cole's Castle, DC-01-CBF-02-F  
**Source City:** Detroit  
**Source State:** MI

**Date/Time Received:** 5/16/2016 14:00

**Collected by:** M. Eters

The results herein conform to TNI and ISO/IEC 17025:2005 standards, where applicable, unless otherwise narrated in the body of the report. The uncertainty of the test results are available upon request. All Dates and Times are reported as U.S. Eastern Time.

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**Report Notes:**

Fed Id #	Contaminant	Method	Standard	Units	LRL	Level Detected	DF	Date/Time Sampled	Date Prepped	Date/Time Analyzed
<b>Inorganic Analytes - Metals</b>										
1030	Lead	200.8	0.015	mg/L	0.001	ND	1	5/11/2016 07:17		5/20/2016

These test results may be used for compliance purpose as required.

Analyst	Tests
EC	200.8



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**ANALYTICAL REPORTS**

**SAMPLE CODE: 355026**

**5/25/2016**

**Customer:** G. S. Group  
Monica Starks  
17800 Woodward Ave  
#200  
Detroit, MI 48203

**Source:** Cole's Castle, DC-01-BF-03-P  
**Source City:** Detroit  
**Source State:** MI

**Date/Time Received:** 5/16/2016 14:00

**Collected by:** M. Eters

The results herein conform to TNI and ISO/IEC 17025:2005 standards, where applicable, unless otherwise narrated in the body of the report. The uncertainty of the test results are available upon request. All Dates and Times are reported as U.S. Eastern Time.

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"NA" Not Analyzed

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"LRL" This column indicates the Lower Reporting Limit, which is the lowest level that the laboratory can detect a contaminant.

"DF" This column indicates the contaminant dilution factor.

**Report Notes:**

Fed Id #	Contaminant	Method	Standard	Units	LRL	Level Detected	DF	Date/Time Sampled	Date Prepped	Date/Time Analyzed
<b>Inorganic Analytes - Metals</b>										
1030	Lead	200.8	0.015	mg/L	0.001	0.004	1	5/11/2016 07:17		5/20/2016

These test results may be used for compliance purpose as required.

Analyst	Tests
EC	200.8



James Abston, Operations Manager

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**ANALYTICAL REPORTS**

**SAMPLE CODE: 355027**

**5/25/2016**

**Customer:** G. S. Group  
 Monica Starks  
 17800 Woodward Ave  
 #200  
 Detroit, MI 48203

**Source:** Cole's Castle, DC-01-BF-03-F  
**Source City:** Detroit  
**Source State:** MI

**Date/Time Received:** 5/16/2016 14:00

**Collected by:** M. Etters

The results herein conform to TNI and ISO/IEC 17025:2005 standards, where applicable, unless otherwise narrated in the body of the report. The uncertainty of the test results are available upon request. All Dates and Times are reported as U.S. Eastern Time.

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**Report Notes:**

Fed Id #	Contaminant	Method	Standard	Units	LRL	Level Detected	DF	Date/Time Sampled	Date Prepped	Date/Time Analyzed
<b>Inorganic Analytes - Metals</b>										
1030	Lead	200.8	0.015	mg/L	0.001	ND	1	5/11/2016 07:17		5/20/2016

These test results may be used for compliance purpose as required.

Analyst	Tests
EC	200.8



James Abston, Operations Manager

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**National Testing Laboratories, Ltd.**

Quality Water Analysis

1-800-458-3330

**General Compliance**

Order Number: 2076912  
Order Date: 04/19/2016  
Sample Number:  
Product: Lead Only  
Sample Paid: No Payment Method:  
TSR: EF

355022



Sold To:  
G. S. Group  
Monica Starks  
17800 Woodward Ave  
Detroit

MI 48203

Date Sampled: 5/11/16

Time Sampled: 7:17 Please Use Military Time, e.g. 3:00pm = 15:00

Check Time Zone:  EST  CST  MST  PST

Client Name: Cole's Castle

Phone Number: 313-680-7763

Fax Number: \_\_\_\_\_

PWS ID# (if applicable): \_\_\_\_\_

Sample ID or Source: DC-01-KC-01-7

Source Type:  Spring  Well  Municipal  Surface  
 Other:

City & State: Detroit, Mi  
(If Different than Above)

Sample Collected By: [Signature]  
(Signature)

Sample Collected By: Michael Ethers  
(Please Print)

Form Completed By: Michael Ethers

**For Laboratory Use ONLY**

Lab Accounting Information:  
Payment \$: \_\_\_\_\_  
Check #: \_\_\_\_\_

Lab Comments/Special Instructions:  
  
  
  
  
  
  
  
  
  
State Forms:

Lab Sample Information  
Date Received: MAY 16 2016  
Time Received: 14:00  
Received By: [Signature]  
 Sample receipt criteria checked & acceptable.  
 Deviations from acceptable sample receipt criteria noted on PSA form.

Additional Comments:  
3 locations sampled at this daycare. This is location # 1  
first draw.

INCOMPLETE INFORMATION MAY DELAY ANALYSIS AND/OR INVALIDATE RESULTS



**National Testing Laboratories, Ltd.**

Quality Water Analysis

1-800-458-3330

**General Compliance**

Order Number: 2076912  
 Order Date: 04/19/2016  
 Sample Number:  
 Product: Lead Only  
 Sample Paid: No Payment Method:  
 TSR: EF



Sold To:  
 G. S. Group  
 Monica Starks  
 17800 Woodward Ave  
 Detroit

MI 48203

Date Sampled: 5/11/16  
 Time Sampled: 7:17 Please Use Military Time, e.g. 3:00pm = 15:00  
 Check Time Zone:  EST  CST  MST  PST  
 Client Name: Cole's Castle  
 Phone Number: 313-680-7763  
 Fax Number: \_\_\_\_\_

PWS ID# (if applicable): w/a

Sample ID or Source: DC-01-CBF-02-P

Source Type:  Spring  Well  Municipal  Surface  
 Other:

City & State: Detroit, Mi  
(If Different than Above)

Sample Collected By: [Signature]  
(Signature)

Sample Collected By: Michael Ethers  
(Please Print)

Form Completed By: Michael Ethers

Additional Comments: 3 locations sampled at this daycare. This is location # 2  
First draw

For Laboratory Use ONLY	
Lab Accounting Information:	
Payment \$:	_____
Check #:	_____
Lab Comments/Special Instructions:	
State Forms:	
Lab Sample Information:	
Date Received:	<u>MAY 16 2016</u>
Time Received:	<u>14:00</u>
Received By:	<u>[Signature]</u>
<input type="checkbox"/> Sample receipt criteria checked & acceptable. <input type="checkbox"/> Deviations from acceptable sample receipt criteria noted on PSA form.	

INCOMPLETE INFORMATION MAY DELAY ANALYSIS AND/OR INVALIDATE RESULTS

**National Testing Laboratories, Ltd.**

*Quality Water Analysis*

1-800-458-3330

**General Compliance**

Order Number: 2076912  
 Order Date: 04/19/2016  
 Sample Number:  
 Product: Lead Only  
 Sample Paid: No Payment Method:  
 TSR: EF

355025  


Sold To:  
 G. S. Group  
 Monica Starks  
 17800 Woodward Ave  
 Detroit

MI 48203

Date Sampled: 5/11/16  
 Time Sampled: 7:17 Please Use Military Time, e.g. 3:00pm = 15:00  
 Check Time Zone:  EST  CST  MST  PST  
 Client Name: Cole's Castle  
 Phone Number: 313-680-7763  
 Fax Number: \_\_\_\_\_

PWS ID# (if applicable): N/A

Sample ID or Source: DC-01-CBF-02-F

Source Type:  Spring  Well  Municipal  Surface  
 Other:

City & State: Detroit, Mi  
(If Different than Above)

Sample Collected By: [Signature]  
(Signature)

Sample Collected By: Michael Ebers  
(Please Print)

Form Completed By: Michael Ebers

For Laboratory Use ONLY	
Lab Accounting Information:	
Payment \$:	_____
Check #:	_____
Lab Comments/Special Instructions:	
State Forms:	
Lab Sample Information:	
Date Received:	<u>MAY 16 2016</u>
Time Received:	<u>14:00</u>
Received By:	<u>[Signature]</u>
<input type="checkbox"/> Sample receipt criteria checked & acceptable. <input type="checkbox"/> Deviations from acceptable sample receipt criteria noted on PSA form.	

Additional Comments:  
3 locations sampled at this daycare. This is location #2  
Flush Sample.

**National Testing Laboratories, Ltd.**

Quality Water Analysis

1-800-458-3330

**General Compliance**

Order Number: 2076912

Order Date: 04/19/2016

Sample Number:

Product: Lead Only

Sample Paid: No Payment Method:

TSR: EF



Sold To:  
G. S. Group  
Monica Starks  
17800 Woodward Ave  
Detroit

MI 48203

Date Sampled: 5/11/16

Time Sampled: 7:17 Please Use Military Time, e.g. 3:00pm = 15:00

Check Time Zone:  EST  CST  MST  PST

Client Name: Cole's Castle

Phone Number: 313-680-7763

Fax Number:

PWS ID# (if applicable): N/A

Sample ID or Source: DC-01-BF-03-P

Source Type:  Spring  Well  Municipal  Surface  
 Other:

City & State: Detroit, Mi  
(If Different than Above)

Sample Collected By: [Signature]  
(Signature)

Sample Collected By: Michael Effers  
(Please Print)

Form Completed By: Michael Effers

Additional Comments:

3 locations sampled at this daycare. This is location #3  
First draw.

**For Laboratory Use ONLY**

Lab Accounting Information:

Payment \$: \_\_\_\_\_

Check #: \_\_\_\_\_

Lab Comments/Special Instructions:

State Forms:

Lab Sample Information:

Date Received: MAY 16 2016

Time Received: 14:00

Received By: [Signature]

- Sample receipt criteria checked & acceptable.
- Deviations from acceptable sample receipt criteria noted on PSA form.

INCOMPLETE INFORMATION MAY DELAY ANALYSIS AND/OR INVALIDATE RESULTS



1-800-458-3330

### General Compliance

Order Number: 2076912  
Order Date: 04/19/2016  
Sample Number:  
Product: Lead Only  
Sample Paid: No  
Payment Method:  
TSR: EF

355027



Sold To:  
G. S. Group  
Monica Starks  
17800 Woodward Ave  
Detroit MI 48203

Date Sampled: 5/11/16  
Time Sampled: 7:17 Please Use Military Time, e.g. 3:00pm = 15:00  
Check Time Zone:  EST  CST  MST  PST  
Client Name: Cole's Castle  
Phone Number: 313-680-7763  
Fax Number: \_\_\_\_\_

PWS ID# (if applicable): N/A

Sample ID or Source: DC-01-BF-03-F  
Source Type:  Spring  Well  Municipal  Surface  
 Other: \_\_\_\_\_

City & State: Detroit, Mi  
(If Different than Above)

Sample Collected By: [Signature]  
(Signature)

Sample Collected By: Michael ETTERS  
(Please Print)

Form Completed By: Michael ETTERS

Additional Comments: 3 locations sampled at this daycare. This is location # 3  
Flush Sample

For Laboratory Use ONLY	
Lab Accounting Information:	
Payment \$:	_____
Check #:	_____
Lab Comments/Special Instructions:	
State Forms:	
Lab Sample Information:	
Date Received:	<u>MAY 16 2016</u>
Time Received:	<u>14:00</u>
Received By:	<u>[Signature]</u>
<input checked="" type="checkbox"/> Sample receipt criteria checked & acceptable. <input type="checkbox"/> Deviations from acceptable sample receipt criteria noted on PSA form.	