1818 New York Ave. NE, Ste 231, Washington, DC 20002

Telephone: (301) 595-3783 www.salutinc.com

January 2, 2021

Prince George's County Public Schools Environmental Safety Office 13306 Old Marlboro Pike Upper Marlboro, MD 20772

Attention: Alex Baylor

alex.baylor@pgcps.org

Subject: Indoor Air Quality Survey

Highland Park Elementary School

6501 Lowland Drive Seat Pleasant, MD 20743

Mr. Baylor:

On December 1, 2020, a Soil and Land Use Technology, Inc. (SaLUT) Industrial Hygienist conducted an indoor air quality (IAQ) evaluation at Highland Park Elementary School, a property maintained by Prince George's County Public Schools (PGCPS) located at 6501 Lowland Drive, Seat Pleasant, MD 20743. The inspection was performed in accordance with PGCPS contract number IFB 022-19.

#### Methodology

The IAQ evaluation conducted by SaLUT included a visual assessment, IAQ instrumentation screening, and a collection of interior air samples for mold in representative locations throughout the building. Additionally, one building exterior environmental air sample was taken for comparison.

Air-borne fungal spore samples were collected on *Air-O-Cell* cassettes using a Buck BioAire calibrated pump. The air samples were taken between three and five feet from the ground. In tandem with collecting mold samples, real-time readings for carbon dioxide, carbon monoxide, temperature and relative humidity were collected using a Fluke 975 Air Meter in representative areas within the facility.

The fungal spore air samples were delivered to EMSL Analytical, Inc. of Beltsville, Maryland for analysis. Fungal spores and particulates in air samples were analyzed by Optical Microscopy (methods EMSL 05-TP-003 and ASTM D7391). The sample chain-of-custody and laboratory reports are attached.



#### **Observations**

The table below summarizes the main observations from the IAQ survey at Highland Park Elementary School, visited on December 1, 2020.

**Table 1-Observations** 

Location	Summary of Observations 12-1-2020
Cafeteria / Gym	2'x4' ceiling tiles;
	No visual signs of microbial growth;
	Mild odor;
	Stained ceiling tiles;
	No visible dust on floor/other furniture surfaces;
	No visible dust around ventilator;
	Central AC.
Hallway next to	2'x4' ceiling tiles;
Classroom C15	No visual signs of microbial growth, and no odor;
	No visible dust on floor/other furniture surfaces;
	No visible dust around ventilator;
	Central AC.
Hallway next to	2'x4' ceiling tiles;
Classroom 105	No visual signs of microbial growth, and no odor;
	No visible dust on floor/other furniture surfaces;
	No visible dust around ventilator;
TT 11	Central AC.
Hallway next to Classroom D-2	2'x4' ceiling tiles;
Classroom D-2	No visual signs of microbial growth, and no odor;
	No visible dust on floor/other furniture surfaces;
	No visible dust around ventilator; Central AC.
I I allowers as out to	
Hallway next to Classroom D07	2'x4' ceiling tiles;
Ciassiuulii Du/	No visual signs of microbial growth, and no odor; No visible dust on floor/other furniture surfaces;
	No visible dust on noor/other furniture surfaces,  No visible dust around ventilator;
	Central AC.
	Central AC.

#### Measurements of Indoor Environmental Quality Parameters

Table 2 depicts a summary of average measurements of comfort.

#### **Temperature**

The American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE) have published recommendations for year round acceptable temperatures in Standard 55-2010 *Thermal Environmental Conditions for Human Occupancy*. The winter comfort range is 20 to 24°C (68 to 75°F) and 23 to 26°C (73 to 79°F) is the summer comfort range. The temperature readings were within the ASHRAE recommended ranges in the representative spaces.



#### Relative Humidity (RH)

RH is a key factor for mold growth. Mold has the potential of growing on suitable surfaces with humidity levels above 60%. ASHRAE Standard 62.1-2010 *Ventilation for Acceptable Indoor Air Quality* recommends a maximum indoor RH of 65% to preclude the likelihood of condensation on cool surfaces encouraging mold growth. The RH readings were within the ASHRAE recommended ranges in the representative areas.

#### Carbon Dioxide (CO<sub>2</sub>)

Under conditions of maximum occupancy, ASHRAE Standard 62.1-2010, Appendix C, infers that the acceptable  $CO_2$  upper limit is the prevailing outdoor  $CO_2$  concentration plus 700 parts per million (ppm). On the day of the space evaluation, the outdoor (building exterior)  $CO_2$  concentration was approximately 411 ppm therefore indoor concentrations should not exceed approximately 1,111 ppm (700 + 411). The maximum average interior  $CO_2$  concentration detected was 521 ppm in the Cafeteria / Gym, a range within the ASHRAE recommendations, per Table 2 below.

#### Carbon Monoxide (CO)

CO is a colorless and odorless gas that is produced by the incomplete combustion of carbon containing fuels. Oil, gasoline, diesel fuels, wood, coke, and coal are major sources of CO. All registered CO concentrations were below the EPA National Ambient Air Quality Standard (NAAQS) of 9 ppm, per Table 2 below.

Table 2: Highland Park Elementary School, Instrumental Screening Levels December 1, 2020 (7:30 AM-9:30 AM)

Sample Location	Temp <sup>0</sup> F	RH%	CO ppm	CO <sub>2</sub> ppm
Standards	ASHRAE 68 to 75°F*	ASHRAE <65%	NAAQS 9	ASHRAE 1,111
Cafeteria / Gym	74.1	30.8	0	521
Hallway next to Classroom C15	74.3	32.8	0	473
Hallway next to Classroom 105	73.2	35.0	0	488
Hallway next to Classroom D-2	74.1	33.0	0	481
Hallway next to Classroom D07	73.9	35.2	0	488
Outside Exterior EV Sample	56.3	36.6	0	411

PM - Particulate Matter size

°F – Degrees Fahrenheit

CO - Carbon Monoxide

ppm - parts per million

μg/m<sup>3</sup> – micrograms per cubic meter

RH% - % Relative Humidity

CO<sub>2</sub> - Carbon Dioxide

\* - Winter Comfort Range



#### **Mold-in-Air Samples**

There are no definitive regulations or standardized guidelines for addressing airborne mold in an indoor setting. If building systems (ventilation, envelope) are functioning properly, the indoor population profile should mimic what is encountered outdoors and the concentrations should be below the outdoor (building exterior) environmental sample levels.

Tables 3 summarizes airborne mold spore sampling results and locations. On December 1, 2020, total mold counts in representative samples (spore count/m³ of air) in all the areas inspected were lower than the outdoor concentrations. Laboratory analysis follows this report (see attachment).

Table 3: Highland Park Elementary School - Measurements of Mold-in-Air Samples December 1, 2020 (7:30 AM-9:30 AM)

Spore Types	Cafeteria / Gym	Hallway next to Classroom C15	Hallway next to Classroom 105	Hallway next to Classroom D-2
Alternaria (Ulocladium)	-	-	-	-
Ascospores	-	-	-	-
Aspergillus/Penicillium	40	-	300	-
Basidiospores	40	40	-	-
Bipolaris++	-	-	-	-
Chaetomium	-	-	-	-
Cladosporium	40	-	-	40
Curvularia	-	-	-	-
Ерісоссит	-	-	-	-
Fusarium	-	-	-	-
Ganoderma	-	-	-	-
Myxomycetes++	-	-	-	-
Pithomyces++	-	-	40	-
Rust	10*	-	-	-
Scopulariopsis/Microascus	-	-	-	-
Stachybotrys/Memnoniella	-	-	-	-
Unidentifiable Spores	-	-	-	-
Zygomycetes	-	-	-	-
Nigrospora	-	-	-	-
Hyphal Fragment	-	40	-	-
Insect Fragment	-	-	40	-
Pollen		-	-	-
Total Fungi	130	50	340	40

<sup>\*</sup> Spore Counts per cubic meter of air (Counts/m<sup>3</sup>).

<sup>++</sup>Includes other spores with similar morphology.



#### Table 3: Highland Park Elementary School – Measurements of Mold-in-Air Samples continued December 1, 2020 (7:30 AM-9:30 AM)

Spore Types	Hallway next to Classroom D07	Outside Exterior EV Sample	Field Blank
Alternaria (Ulocladium)	-	-	-
Ascospores	-	80	-
Aspergillus/Penicillium	-	-	-
Basidiospores	40	300	-
Bipolaris++	-	-	-
Chaetomium	-	-	-
Cladosporium	-	300	-
Curvularia	-	-	-
Ерісоссит	-	-	-
Fusarium	-	-	-
Ganoderma	-	-	-
Myxomycetes++	40	-	-
Pithomyces++	-	-	-
Rust	-	-	-
Scopulariopsis/Microascu s	-	-	-
Stachybotrys/Memnoniell a	-	-	-
Unidentifiable Spores	-	-	-
Zygomycetes	-	-	-
Nigrospora	-	-	-
Hyphal Fragment	-	-	-
Insect Fragment	-	-	-
Pollen	-	-	
Total Fungi	80	720	No Trace

<sup>\*</sup>Spore Counts per cubic meter of air (Counts/m<sup>3</sup>).

<sup>++</sup>Includes other spores with similar morphology.



#### **Findings and Conclusions**

The comfort parameters (i.e., temperature, RH, CO<sub>2</sub>, and CO levels) in the representative areas conform to ASHRAE and/or NAAQS guidelines. On December 1, 2020, total mold counts in representative area samples (spore count/m³ of air) in all the areas inspected were lower than the outdoor concentrations, indicating no amplified mold growth.

Thank you for the opportunity to provide industrial hygiene services for PGCPS. If you have any questions, please contact me at 301.595.3783.

Sincerely,

Chaminda Jayatilake, PE, CIH, CSP, CHMM Certified Industrial Hygienist Soil and Land Use Technology Inc. (SaLUT)

#### Attachment

Attachment - Mold Spore Sample Analytical Results and Chain-of-Custody Forms

### **Attachment**

# Mold Spore Sample Analytical Results and Chain-of-Custody Forms



### **EMSL Analytical, Inc.**

5221 Militia Hill Road Plymouth Meeting, PA 19462

Tel/Fax: (610) 828-3102 / (610) 828-3122

http://www.EMSL.com / plymouthmeetinglab@emsl.com

Attention: Indika Jayatilake

**SaLUT** 

1818 New York Avenue, NE

Suite 231

Washington, DC 20002

Project: 19-035 Highland Park ES

EMSL Order: 182003840 Customer ID: SALU50

Customer PO: Project ID:

**Phone**: (301) 595-3783

Fax: (301) 595-3787

Collected Date: 12/01/2020

Received Date: 12/01/2020 02:40 PM

**Analyzed Date:** 12/03/2020

Test Report:Air-O-Cell(™) Analysis of Fungal Spores & Particulates by Optical Microscopy (Methods MICRO-SOP-201, ASTM D7391)

Lab Sample Number: Client Sample ID: Volume (L):		182003840-0001 182003840-0002 182003840-0003 S1 S2 S3 75 75 75							
Sample Location:	c	afeteria / Gym		l Hallw	ay Next To CR	C15	Hallway Next To CR D-20		
Spore Types	Raw Count	Count/M³	% of Total	Raw Count	Count/M³	% of Total	Raw Count	Count/M³	% of Total
Alternaria (Ulocladium)	-	-	-	-	-	-	-	-	-
Ascospores	-	-	-	-	-	-	-	-	-
Aspergillus/Penicillium	1	40	30.8	-	-	-	-	-	-
Basidiospores	1	40	30.8	1	40	80	-	-	-
Bipolaris++	-	-	-	-	-	-	-	-	-
Chaetomium	-	-	-	-	-	-	-	-	-
Cladosporium	1	40	30.8	-	-	-	1	40	100
Curvularia	-	-	-	-	-	-	-	-	-
Epicoccum	-	-	-	-	-	-	-	-	-
Fusarium	-	-	-	-	-	-	-	-	-
Ganoderma	-	-	-	-	-	-	-	-	-
Myxomycetes++	-	-	-	-	-	-	-	-	-
Pithomyces++	-	-	-	-	-	-	-	-	-
Rust	1*	10*	7.7	-	-	-	-	-	-
Scopulariopsis/Microascus	-	-	-	-	-	-	-	-	-
Stachybotrys/Memnoniella	-	-	-	-	-	-	-	-	-
Unidentifiable Spores	-	-	-	-	-	-	-	-	-
Zygomycetes	-	-	-	-	-	-	-	-	-
Polythrincium	-	-	-	1*	10*	20	-	-	-
Total Fungi	4	130	100	2	50	100	1	40	100
Hyphal Fragment	-	-	-	1	40	-	-	-	-
Insect Fragment	-	-	-	-	-	-	-	-	-
Pollen	-	-	-	-	-	-	-	-	-
Analyt. Sensitivity 600x	-	42	-	-	42	-	-	42	-
Analyt. Sensitivity 300x	-	13*	-	-	13*	-	-	13*	-
Skin Fragments (1-4)	-	2	-	-	2	-	-	2	-
Fibrous Particulate (1-4)	-	1	-	-	1	-	-	1	-
Background (1-5)	-	1	-	-	1	-	-	1	-

++ Includes other spores with similar morphology; see EMSL's fungal glossary for each specific category.

Kevin Ream, Laboratory Manager or other Approved Signatory

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Samples analyzed by EMSL Analytical, Inc. Plymouth Meeting, PA AlHA-LAP, LLC-EMLAP Accredited #178659

Initial report from: 12/04/2020 10:21 AM



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**Attention:** Indika Jayatilake

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Project: 19-035 Highland Park ES

EMSL Order: 182003840 Customer ID: SALU50

Customer PO: Project ID:

Phone: (301) 595-3783

**Fax:** (301) 595-3787

Collected Date: 12/01/2020

Received Date: 12/01/2020 02:40 PM

**Analyzed Date:** 12/03/2020

Test Report:Air-O-Cell(™) Analysis of Fungal Spores & Particulates by Optical Microscopy (Methods MICRO-SOP-201, ASTM D7391)

Lab Sample Number: Client Sample ID: Volume (L):	182003840-0004     182003840-0005     182003840-0006       S4     S5     S6       75     75     75				<b>S</b> 5					
Sample Location:	Hallw	ay Next To CR-	105	Hallw	ay Next To CR	D07	Outside			
Spore Types	Raw Count	Count/M³	% of Total	Raw Count	Count/M³	% of Total	Raw Count	Count/M³	% of Total	
Alternaria (Ulocladium)	-	-	-	-	-	-	-	-	-	
Ascospores	-	-	-	-	-	-	2	80	11.1	
Aspergillus/Penicillium	6	300	88.2	-	-	-	-	-	-	
Basidiospores	-	-	-	1	40	50	8	300	41.7	
Bipolaris++	-	-	-	-	-	-	-	-	-	
Chaetomium	-	-	-	-	-	-	-	-	-	
Cladosporium	-	-	-	-	-	-	8	300	41.7	
Curvularia	-	-	-	-	-	-	-	-	-	
Epicoccum	-	-	-	-	-	-	-	-	-	
Fusarium	-	-	-	-	-	-	-	-	-	
Ganoderma	-	-	-	-	-	-	-	-	-	
Myxomycetes++	-	-	-	1	40	50	-	-	-	
Pithomyces++	1	40	11.8	-	-	-	-	-	-	
Rust	-	-	-	-	-	-	-	-	-	
Scopulariopsis/Microascus	-	-	-	-	-	-	-	-	-	
Stachybotrys/Memnoniella	-	-	-	-	-	-	-	-	-	
Unidentifiable Spores	-	-	-	-	-	-	-	-	-	
Zygomycetes	-	-	-	-	-	-	-	-	-	
Polythrincium	-	-	-	-	-	-	1	40	5.6	
Total Fungi	7	340	100	2	80	100	19	720	100	
Hyphal Fragment	-	-	-	-	-	-	-	-	-	
Insect Fragment	1	40	-	-	-	-	-	-	-	
Pollen	-	-	-	-	-	-	-	-	-	
Analyt. Sensitivity 600x	-	42	-	-	42	-	-	42	-	
Analyt. Sensitivity 300x	-	13*	-	-	13*	-	-	13*	-	
Skin Fragments (1-4)	-	2	-	-	2	-	-	1	-	
Fibrous Particulate (1-4)	-	1	-	-	1	-	-	1	-	
Background (1-5)	-	1	-	-	1	-	-	1	-	

++ Includes other spores with similar morphology; see EMSL's fungal glossary for each specific category.

Kevin Ream, Laboratory Manager or other Approved Signatory

Page 2 of 3

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**Collected Date: 12/01/2020** 

Received Date: 12/01/2020 02:40 PM

**Analyzed Date:** 12/03/2020

Test Report:Air-O-Cell(™) Analysis of Fungal Spores & Particulates by Optical Microscopy (Methods MICRO-SOP-201, ASTM D7391)

Lab Sample Number: Client Sample ID: Volume (L): Sample Location:	1	82003840-0007 S7 Field Blank							
Spore Types	Raw Count	Count/M³	% of Total	-	-	-	-	-	-
Alternaria (Ulocladium)	-	-	-	-	-	-	-		
Ascospores	-	-	-	-		-			
Aspergillus/Penicillium	-	-	-	-		-			
Basidiospores	-	-	-	-		-			
Bipolaris++	-	-	-	-		-			
Chaetomium	-	-	-	-		-			
Cladosporium	-	-	-	-		-			
Curvularia	-	-	-	-		-			
Epicoccum	-	-	-	-		-			
Fusarium	-	-	-	-		-			
Ganoderma	-	-	-	-		-			
Myxomycetes++	-	-	-	-		-			
Pithomyces++	-	-	-	-		-			
Rust	-	-	-	-		-			
Scopulariopsis/Microascus	-	-	-	-		-			
Stachybotrys/Memnoniella	-	-	-	-		-			
Unidentifiable Spores	-	-	-	-		-			
Zygomycetes	-	-	-	-		-			
Polythrincium	-	-	-	-		-			
Total Fungi	-	No Trace	-	_		_			
Hyphal Fragment	-	-	-	-					
Insect Fragment	-	-	-	-		-			
Pollen	-	-	-	-		-			
Analyt. Sensitivity 600x	-	0	-	-	_	-	-	-	-
Analyt. Sensitivity 300x	-	0*	-	-					
Skin Fragments (1-4)	-	-	-	-		-			
Fibrous Particulate (1-4)	-	-	-	-					
Background (1-5)	-	-	-	-		-			

++ Includes other spores with similar morphology; see EMSL's fungal glossary for each specific category.

Kevin Ream, Laboratory Manager or other Approved Signatory

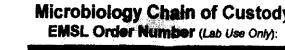
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Initial report from: 12/04/2020 10:21 AM

OrderID: 182003840

## 182003840



EMSL ANALYTICAL, INC. 200 ROUTE 130 NORTH CINNAMINSON, NJ 08077 PHONE: (800) 220-3675 FAX:(856) 786-0262

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MARL ANALYTICAL, INC.		
ompany Name: Salut Inc		EMSL-I

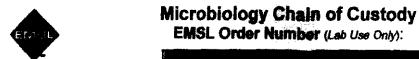
Company Name: Salut Inc				EMSL-Bill to: Same Different in Bill to is Different note instructions in Comments					
Street: 1818 New			Suite 231		Third Party Billing requires written authorization from third party.				
City: Washington			State/Province: DO	>	Zip/Postal Code:			Country:	······································
Report To (Name)	: Ind	dika	Jayatilake		Telephone #:				
Email Address:	i jaya t	ilake	saluting . con	<u> </u>	Fax#:			Purchase Or	der:
Project Name/Nur	nber.	19-03	15- Highland Pe	ark Es	Please Provide R	lesults:	☐ Fax [	<u>Email</u>	
U.S. State Sample				Zip Code: 20				Commercial	Residential
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ruone	******	outby, c			Options - Please		I DON II	reducted by so	ite.
3 Hour		6 Hour	24 Hour	48 Hour	72 Hour		6 Hour	1 Week	2 Week
				Microbiolog	y Test Codes				
M901 Air-O-Cell		M174 M	oldSnap		nomits aeruginose (P//			age Screen - Wat	
M030 Micro 5		M032 All	lergenco-D		nomes aeruginose (MF ophic Plate Count	·1")		age Screen - Wat age Screen - Swa	
M041 Fungal Direct E				M017 Total Co	Worm & E. coli (Collier		M013 Sava	age Screen - Swi	ib (MFT*)
M169 Pollen ID & Ent M280 Dust Character					Morm & E. coli (MFT*) Morm & E. coli Enume		M133 Metr (MRSA)	nicibin-resistant S	aph. aureus
M281 Dust Character				(Collect MPN"	)	.1	M031 Rapi	d-growing non-TE	3 Mycobacteria
M005 Viable Fungi- A	ur Samp	ies (Genu		M019 Fecal Co M020 Fecal Sh	Niform (MIFT") replaceacus (MIFT")			L Enumeration Stoxin Analysis	
85006 Viable Fungi- A Asperallus, Cladospo				M029 Enteroco	ocal (MFT")		M044 Grou	ip Allergen (Cat, I	Dog, Cockroach,
Count)	·	•	•		occi (Enterolert P/A***) le qPCR-ERMI 36 Par		Dust Mite) Other See	Analytical Price	Guide
M007 Culturable fung Count)	ı - Surfa	ice Sampi	es (Genus ID &		ScreenWater (MFT*		Legionella	Analysis Please	
M008 Culturable fung				Legionella COC					
Penicillium, Aspergille Species ID & Count)	is, Clad	losporium,	Stachybotrys						
M009 Bacteria Cultur				*MFT= Membrane Filtration Technique **MPN= Most Probable Number					
M010 Sactoria Count M011 Bactoria Count				***P/A= Preser					
Name of Sampler:	An	iton	Adikarı		Signature of Sampler: Kus				
				Sample	Potable	Test	Volume/	Date/Time	
Sample #	28	mpie Loci	ntion/Description	Туре	NonPotable (Only for Waters)	Code	Area	Collected	
SI	Cal	êtenia	/ Green	Air	□P □NP	Mood.	75ml	12/01/2020	
S2			to cr as	32	□P □NP	22	77	22	
93			CR D-20	77	□P □NP	27	17	99	
54			to CR-105	99	☐ P □NP	97	99	97	
<u>\$5</u>	#/4	next	to CR DO7	77	□P □NP	77	99	97	
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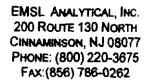
EMSL Analytical, Inc.'s Laboratory Terms and Conditions are incorporated into this chain of custody by reference in their entirety. Submission of samples to EMSL Analytical, Inc. constitutes acceptance and acknowledgment of all terms and conditions by Customer.

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OrderID: 182003840

## 182003840





Sample #	Sample Location/Description	Sample Type	Potable/ NonPotable (Only for Waters)	Test Code	Volume/ Area	Date/Time Coffected
56	outside	Air	☐P □NP	Mool	75ml	12/01/2020
37	Field Blank	22	☐P □NP	27	77	27
			□ P □NP			
			☐P □NP			
74			☐P ☐NP			
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182003840

GEN-FM-10-1: Sample Transfer-One Time

Revision 4.2

Revision Date: 1/05/2016 Effective Date: 1/05/2016



## EMSL Analytical, Inc. Sample Transfer Form

Recipies 1 - 1 FASL	BELLEVILE		3019375700	
		According to the second	3019373701	
Control of the second			8002203675	
100 mg		See Nümber	8567860262	
			XYes No	
EMSL Customer ID # (if known):	SALU50			
Client Name:	SALUT INC			
Client Project:	19-035 - HIGHLAND	PARK ES		
Tests to be Performed:	M001			
D.				
Gen District Control		2(40)PM ==		
Special Instructions:				
(e.g. Work Order # , required				
qualifications, project specific procedures/modifications)				
	Park Residen	by (Spreture)		Date:
				12320
Customer Agreement - Please s	ign form and send to the red	eiving laboratory.	By signing beloy	w. you agree to permit the
above named receiving lab to t	_	- '		
final report will be issued from				
Name (please print):	Signature:	Agen	t of:	Date:
				Name of the Park o
If this is a recurring project or s	ample type that may require	samples to be reli	nquished on a re	gular basis, a Standing
Agreement form must be comp				

\* Receiving and analyzing labs shall be aware of required qualifications of project prior to transfer of samples.

Note: If customer has been notified and approved this transfer verbally or by e-mail, the receiving lab must sign for the customer above. EMSL employee filling out form on behalf of customer shall print name of person to whom they spoke, date agreement was

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received, and then sign under Signature.

Confidential Business Information/Property of EMSL Analytical, Inc.