

THE LEADER IN ENVIRONMENTAL TESTING

# **ANALYTICAL REPORT**

TestAmerica Laboratories, Inc.

TestAmerica Edison 777 New Durham Road Edison, NJ 08817 Tel: (732)549-3900

TestAmerica Job ID: 460-146882-1

Client Project/Site: Rock Hill Quarry

Revision: 2

### For:

Hanson Aggregates PA LLC 7660 Imperial Way Allentown, Pennsylvania 18195

Attn: Andrew Gutshall



Authorized for release by: 4/18/2018 10:04:41 AM

Jill Miller, Project Manager II (732)549-3900

iill.miller@testamericainc.com

.....LINKS .....

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**Have a Question?** 



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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Hanson Aggregates PA LLC Project/Site: Rock Hill Quarry

TestAmerica Job ID: 460-146882-1

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## **Definitions/Glossary**

Client: Hanson Aggregates PA LLC Project/Site: Rock Hill Quarry

TestAmerica Job ID: 460-146882-1

**Qualifiers** 

**HPLC/IC** 

 Qualifier
 Qualifier Description

 U
 Indicates the analyte was analyzed for but not detected.

D Sample results are obtained from a dilution; the surrogate or matrix spike recoveries reported are calculated from diluted samples.

**Metals** 

Qualifier Qualifier Description

U Indicates the analyte was analyzed for but not detected.

J Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

**General Chemistry** 

Qualifier Qualifier Description

U Indicates the analyte was analyzed for but not detected.

HF Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.

**Glossary** 

Abbreviation These commonly used abbreviations may or may not be present in this report.

Listed under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery
CFL Contains Free Liquid
CNF Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac Dilution Factor

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin)

LOD Limit of Detection (DoD/DOE)

LOQ Limit of Quantitation (DoD/DOE)

MDA Minimum Detectable Activity (Radiochemistry)
MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit
ML Minimum Level (Dioxin)

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

PQL Practical Quantitation Limit

QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin)
TEQ Toxicity Equivalent Quotient (Dioxin)

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### **Case Narrative**

Client: Hanson Aggregates PA LLC Project/Site: Rock Hill Quarry

TestAmerica Job ID: 460-146882-1

Job ID: 460-146882-1

Laboratory: TestAmerica Edison

Narrative

Job Narrative 460-146882-1 Revision(2)

### Revision(1)

TKN did not pull into the original report. This report corrects that error.

### Revision(2)

Client requested MDLs and MDL statement in case narrative

The method detection limit (MDL) is the lowest value detectable by the laboratory for a given analyte as determined by the MDL procedure detailed in EPA 40 CFR 136. Reported MDL values are adjusted for any dilutions and percent moisture (as applicable). The lab is unable to report values below the MDL.

### Receipt

The sample was received on 12/13/2017 11:45 AM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.3° C.

### GC Semi VOA

Method(s) 300.0: The following sample was diluted to bring the concentration of target analytes within the calibration range: NPDES 001 (460-146882-1) at 2.0. Elevated reporting limits (RLs) are provided.

Method(s) 300.0: The following samples were diluted to bring the concentration of target analytes within the calibration range: (460-146898-G-2), (460-146898-G-2 MS) and (460-146898-G-2 MSD) at 50.0, 50.0 and 50.0. Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

### Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

### **General Chemistry**

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

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TestAmerica Edison 4/18/2018 (Rev. 2) Client: Hanson Aggregates PA LLC Project/Site: Rock Hill Quarry

Client Sample ID: NPDES 001

Date Collected: 12/12/17 10:50 Date Received: 12/13/17 11:45 Lab Sample ID: 460-146882-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	0.043	U	0.40	0.043	mg/L			12/20/17 05:05	1
Fluoride	0.13		0.080	0.012	mg/L			12/20/17 05:05	1
Sulfate	10.1		0.60	0.33	mg/L			12/20/17 05:05	1
Method: 300.0 - Anio	ns, Ion Chromatogra	phy - DL							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6.59	D	0.24	0.16	mg/L			12/20/17 12:04	2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	96.9		8.0	2.5	ug/L		12/16/17 09:00	12/16/17 21:35	2
Iron	237		120	42.4	ug/L		12/16/17 09:00	12/16/17 21:35	2
Cadmium	0.71	U	2.0	0.71	ug/L		12/16/17 09:00	12/16/17 21:35	2
Barium	7.8		4.0	1.2	ug/L		12/16/17 09:00	12/16/17 21:35	2
Nickel	1.4	U	4.0	1.4	ug/L		12/16/17 09:00	12/16/17 21:35	2
Arsenic	0.64	U	2.0	0.64	ug/L		12/16/17 09:00	12/16/17 21:35	2
Copper	1.7	J	4.0	1.4	ug/L		12/16/17 09:00	12/16/17 21:35	2
Aluminum	23.0	J	40.0	18.2	ug/L		12/16/17 09:00	12/16/17 21:35	2
Lead	0.38	U	1.2	0.38	ug/L		12/16/17 09:00	12/16/17 21:35	2
Zinc	7.0	U	16.0	7.0	ug/L		12/16/17 09:00	12/16/17 21:35	2
Selenium	0.73	U	10.0	0.73	ug/L		12/16/17 09:00	12/16/17 21:35	2

Method: 6020A - Metals (ICP/MS) - Dissolved									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	42.4	U	120	42.4	ug/L		12/19/17 11:49	12/19/17 14:46	2

Method: 7470A - Mercury (CVAA	4)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.17	U	0.20	0.17	ug/L		12/15/17 11:53	12/15/17 14:18	1

General Chemistry Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HEM (Oil & Grease)	2.2	U –	5.4	2.2	mg/L			12/20/17 15:30	1
Nitrogen, Kjeldahl	0.10	U	0.20	0.10	mg/L		12/18/17 10:48	12/19/17 11:50	1
Color	5.00		5.00	5.00	Color Units			12/14/17 06:37	1
Acidity	37.8		20.0	20.0	mg/L			12/19/17 09:54	1
Alkalinity	133		5.0	5.0	mg/L			12/15/17 14:03	1
Total Dissolved Solids	195		10.0	10.0	mg/L			12/18/17 13:10	1
Total Suspended Solids	1.1		1.0	1.0	mg/L			12/18/17 08:02	1
pH .	7.9	HF			SU			12/20/17 13:40	1

TestAmerica Job ID: 460-146882-1

Client: Hanson Aggregates PA LLC Project/Site: Rock Hill Quarry

**Client Sample ID: NPDES 001** 

Lab Sample ID: 460-146882-1 Date Collected: 12/12/17 10:50 **Matrix: Water** 

Date Received: 12/13/17 11:45

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0			485553	12/20/17 05:05	HXM	TAL EDI
Total/NA	Analysis	300.0	DL	2	485553	12/20/17 12:04	HXM	TAL EDI
Dissolved	Filtration	FILTRATION			484180	12/14/17 08:57	MDC	TAL EDI
Dissolved	Prep	3010A			485505	12/19/17 11:49	MDC	TAL EDI
Dissolved	Analysis	6020A		2	485548	12/19/17 14:46	MDC	TAL EDI
Total/NA	Prep	3010A			484774	12/16/17 09:00	QZY	TAL EDI
Total/NA	Analysis	6020A		2	485137	12/16/17 21:35	PHP	TAL EDI
Total/NA	Prep	7470A			484564	12/15/17 11:53	RBS	TAL EDI
Total/NA	Analysis	7470A		1	484612	12/15/17 14:18	RBS	TAL EDI
Total/NA	Analysis	1664A		1	485713	12/20/17 15:30	JXT	TAL EDI
Total/NA	Prep	Digestion			506771	12/18/17 10:48	CFJ	TAL SAV
Total/NA	Analysis	351.2		1	507035	12/19/17 11:50	JER	TAL SAV
Total/NA	Analysis	SM 2120B		1	484131	12/14/17 06:37	KYN	TAL EDI
Total/NA	Analysis	SM 2310B		1	485461	12/19/17 09:54	IAA	TAL EDI
Total/NA	Analysis	SM 2320B		1	485119	12/15/17 14:03	LED	TAL EDI
Total/NA	Analysis	SM 2540C		1	485191	12/18/17 13:10	PLS	TAL EDI
Total/NA	Analysis	SM 2540D		1	485104	12/18/17 08:02	PLS	TAL EDI
Total/NA	Analysis	SM 4500 H+ B		1	485874	12/20/17 13:40	YAH	TAL EDI

### **Laboratory References:**

TAL EDI = TestAmerica Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900 TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

TestAmerica Edison

TestAmerica Job ID: 460-146882-1

Client: Hanson Aggregates PA LLC Project/Site: Rock Hill Quarry

### **Laboratory: TestAmerica Edison**

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	<b>Expiration Date</b>
Connecticut	State Program	1	PH-0200	09-30-18
DE Haz. Subst. Cleanup Act (HSCA)	State Program	3	N/A	12-31-18
New Jersey	NELAP	2	12028	06-30-18
New York	NELAP	2	11452	04-01-19
Pennsylvania	NELAP	3	68-00522	02-28-19
Rhode Island	State Program	1	LAO00132	12-30-18
USDA	Federal		NJCA-003-08	06-13-20

### Laboratory: TestAmerica Savannah

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
	AFCEE		SAVLAB	-
Alabama	State Program	4	41450	06-30-18
Alaska	State Program	10		06-30-18
Alaska (UST)	State Program	10	UST-104	09-22-19
Arizona	State Program	9	AZ0808	12-14-18
Arkansas DEQ	State Program	6	88-0692	02-01-19
California	State Program	9	2939	06-30-18
Colorado	State Program	8	N/A	12-31-18
Connecticut	State Program	1	PH-0161	03-31-19
Florida	NELAP	4	E87052	06-30-18
GA Dept. of Agriculture	State Program	4	N/A	06-12-18
Georgia	State Program	4	803	06-30-18
Guam	State Program	9	15-005r	04-16-18
Hawaii	State Program	9	N/A	06-30-18
Illinois	NELAP	5	200022	11-30-18
Indiana	State Program	5	N/A	06-30-18
lowa	State Program	7	353	06-30-19
Kentucky (DW)	State Program	4	90084	12-31-18
Kentucky (UST)	State Program	4	18	06-30-18
Kentucky (WW)	State Program	4	90084	12-31-18 *
L-A-B	DoD ELAP		L2463	09-22-19
L-A-B	ISO/IEC 17025		L2463.01	09-22-19
Louisiana	NELAP	6	30690	06-30-18
Louisiana (DW)	NELAP	6	LA160019	12-31-18
Maine	State Program	1	GA00006	09-24-18
Maryland	State Program	3	250	12-31-18
Massachusetts	State Program	1	M-GA006	06-30-18
Michigan	State Program	5	9925	06-30-18
Mississippi	State Program	4	N/A	06-30-18
Nebraska	State Program	7	TestAmerica-Savannah	06-30-18
New Jersey	NELAP	2	GA769	06-30-18
New Mexico	State Program	6	N/A	06-30-18
New York	NELAP	2	10842	03-31-19
North Carolina (DW)	State Program	4	13701	07-31-18
North Carolina (WW/SW)	State Program	4	269	12-31-18
Oklahoma	State Program	6	9984	08-31-18
Pennsylvania	NELAP	3	68-00474	06-30-18
Puerto Rico	State Program	2	GA00006	12-31-18

<sup>\*</sup> Accreditation/Certification renewal pending - accreditation/certification considered valid.

TestAmerica Edison

4/18/2018 (Rev. 2)

# **Accreditation/Certification Summary**

Client: Hanson Aggregates PA LLC TestAmerica Job ID: 460-146882-1

Project/Site: Rock Hill Quarry

# **Laboratory: TestAmerica Savannah (Continued)**

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	<b>Expiration Date</b>
South Carolina	State Program	4	98001	06-30-18
Tennessee	State Program	4	TN02961	06-30-18
Texas	NELAP	6	T104704185-16-9	11-30-18
Texas	State Program	6	T104704185	06-30-18
US Fish & Wildlife	Federal		LE058448-0	07-31-18
USDA	Federal		P330-17-00213	06-14-20 *
Virginia	NELAP	3	460161	06-14-18
Washington	State Program	10	C805	06-10-18
West Virginia (DW)	State Program	3	9950C	12-31-18
West Virginia DEP	State Program	3	094	06-30-18
Wisconsin	State Program	5	999819810	08-31-18
Wyoming	State Program	8	8TMS-L	06-30-16 *

4/18/2018 (Rev. 2)

<sup>\*</sup> Accreditation/Certification renewal pending - accreditation/certification considered valid.

# **Method Summary**

Client: Hanson Aggregates PA LLC Project/Site: Rock Hill Quarry

TestAmerica Job ID: 460-146882-1

Method	Method Description	Protocol	Laboratory
300.0	Anions, Ion Chromatography	MCAWW	TAL EDI
6020A	Metals (ICP/MS)	SW846	TAL EDI
'470A	Mercury (CVAA)	SW846	TAL EDI
664A	HEM and SGT-HEM	1664A	TAL EDI
51.2	Nitrogen, Total Kjeldahl	MCAWW	TAL SAV
M 2120B	Color, Colorimetric	SM	TAL EDI
M 2310B	Acidity	SM	TAL EDI
M 2320B	Alkalinity	SM	TAL EDI
M 2540C	Solids, Total Dissolved (TDS)	SM	TAL EDI
M 2540D	Solids, Total Suspended (TSS)	SM	TAL EDI
M 4500 H+ B	pH	SM	TAL EDI
010A	Preparation, Total Metals	SW846	TAL EDI
470A	Preparation, Mercury	SW846	TAL EDI
igestion	Digestion, Hot Block	MCAWW	TAL SAV
ILTRATION	Sample Filtration	None	TAL EDI

### **Protocol References:**

1664A = EPA-821-98-002

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

None = None

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

### **Laboratory References:**

TAL EDI = TestAmerica Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

TestAmerica Edison

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# **Sample Summary**

Client: Hanson Aggregates PA LLC Project/Site: Rock Hill Quarry

TestAmerica Job ID: 460-146882-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
460-146882-1	NPDES 001	Water	12/12/17 10:50	12/13/17 11:45

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777 New Durham Road Edison, New Jersey 08817 Phone: (732) 549-3600 Fax: (732) 549-3679

TestAmerica c	CHAIN OF CUSTODY / ANALYSIS REQUEST	m <b>ė</b>	Edison, New Jersey 08817 Phone: (732) 549-3900 Fa	Edison, New Jersey 08817 Phone: (732) 549-36  . 3  . 3  . 7  . 7  . 8  . 7  . 9  . 7
Name (for report and invoice)	Samplers Name (Printed)	Site/Project Identification Rock Hru QUARRY	포	QUARRY
Company	1	State (Location of site): N.I. N.Y. Other: OA	×Ν	Other: DA

Samplers Name ( Printed.)  State (Location of site): NJ:   NY:   OU  State (Location of site): NJ:   ON  State (Location of site): NJ:   ON  Regulatory Program:   ON  Regulatory Program:   One  State (Location of site): NJ:   ON  Regulatory Program:   One  State (Location of site): NJ:   ON  Regulatory Program:   One  State (Location of site): NJ:   ON  Regulatory Program:   One  State (Location of site): NJ:   ON  Regulatory Program:   ON  Regulatory Prog								
State (Location of site): NJ:   NY:   Or     State (Location of site): NJ:   NY:   Or     Standard       Standard       Standard       Subset       Tweek       Other       Date   Time   Matrix   Cont.     12       14   17   1050       Value       Solid       State (Location of site): NJ:     No. Off       Solid       Standard       Regulatory Program:     Physical Recuestry Recuestry     Physical Recuestry       Solid       Solid	Name (for report and invoice) ANDREW (1975HALL	<u>võ</u>	amplers No.	ame (Prir	Toytstku	Site/Project Identification	K HUL G	VAREY
Standard	Company	α.	#.0			State (Location of site): N	J. NY:	Other: PA
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5 = NaOH								
1	Preservation Used: $1 = ICE$ , $2 = HCI$ , $3 = H_2SO_4$ ,	4 = HNO <sub>3</sub> , {	5 = NaOH		Soil:			
, / = Other	6 = Other , 7 = Other	her	ļ	>	Water:			

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Laboratory Certifications: New Jersey (12028),	s: New Jerse		452). Pennsylvania (6	New York (11452). Pennsylvania (68-522). Connecticut (PH-0200). Rhode Island (132).	thode Island (132).

Massachusetts (M-NJ312), North Carolina (No. 578)

Samples for Metal analysis which are out of compliance must be acidified at least 24 hours prior to analysis. 7 Date:

EDS-WI-038, Rev 4, 06/09/2014

Other Total Cyanide Total Phos Other The appropriate Project Manager and Department Manager should be notified about the samples which were pH adjusted. (pH>12) (pH<2) (pH<2) 50 (pH<2) ΙĶΝ Volume of Preservative used (ml): Expiration Date: EPH or QAM Phenols Sulfide (pH>9) (pH<2) (pH<2) If pH adjustments are required record the information below: (bH 2-9) Pest (pH<2) Hardness Metals (pH<2) (pH<2) Nitrate Nitrite (pH<2) COD Sample No(s). adjusted: Preservative Name/Conc. Lot # of Preservative(s): Ammonia (pH<2) TALS Sample Number

Page of

Receipt Temperature and pH Log

Job Number:

TestAmerica Edison

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Chain of Custody Record

Client Information (Sub Contract Lab)	Caripier		Miller, Jill K	X	(e)o. Russen	460-50297.1
Client Contact. Shipping/Receiving	Phone		E-Mail Jill miller	E-Mail jill miller@testamericainc.com	State of Origin Pennsylvania	Page 1 of 1
Company Total America Laboratoriae Inc			AG	Accreditations Required (See note)		Job #
Address:	Due Date Requested:					Preservation Codes:
5102 LaRoche Avenue,	12/20/2017			Analysi	Analysis Requested	A - HCL M - Hexane
City Savannah	IAI Requested (days):		Upril-			B - NaOH N - None C - Zn Acetate O - AsNaO2
State, Zip. GA, 31404				Idable		E- NaHSO4 Q - Na2SO3
Phone. 912-354-7858(Tel) 912-352-0165(Fax)	PO#:		(0			70
Email	WO#.		N 10	(0)		1 - Ice J - Di Water
Project Name: Lehigh Hanson - PA	Project # 46011424		89X) 9	es or l		7
Site	SSOW#		dme	A) as		of coi
Sample Identification - Client ID (Lab ID)	Sample Date Til	Sample Type Sample (C=comp,	Matrix (Wwwater, Swold, Onwaster)	M\&M moheq		Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z
	/ \	1	7 (0	X		
2 COO 00 FT COO 0 DIGOIN	101 101/01/04	10.50	Motor	,		,
MTDES 001 (400-140002-1)	7-1-1	Eastern	1300	<		
Note. Since laboratory accreditations are subject to change, TestAmerica Laboratores, inc. places the ownership of method, analytic & accreditation compliance upon out subcontract laborator in the State of Origin listed above for analysis/lests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instruction Laboratories, inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to TestAmerica Laboratories, inc.	a Laboratories, Inc. places the owner, lysis/lests/matrix being analyzed, the re current to date, return the signed C	ship of method, an a samples must be Chain of Custody a	alyte & accreditation or shipped back to the Te ittesting to said complic	ompliance upon our subcontract labor: sstAmerica laboratory or other instruct ;ance to TestAmerica Laboratories, in	alories. This sample shipment is forwar tions will be provided. Any changes to a	nership of method, analyte & accreditation compliance upon out subconfract aboratories. This sample snipment is divisated under charron-custody. If the laboratory of other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica ed Chain of Custody attesting to said complicance to TestAmerica Laboratories, Inc.
Possible Hazard Identification				Sample Disposal ( A fee mi	ay be assessed if samples are	Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)  Return To Client Disposal By Lab Archive For Months
Deliverable Requested: I, II, III, IV, Other (specify)	Primary Deliverable Rank:	Rank: 1		Special Instructions/QC Requirements	uirements.	
Empty Kit Relinquished by:	Date	32	T	Time:	Method of Shipment	
Reinpulshedfur, Od HMOU Reinplished by	Date/Tithe 12 17 1	1430	Company	Received by:	Patertime.	Company Company
Relinquished by:	Date/Time		Company	Received by:	Date/Time	Company
Custody Seals Intact: Custody Seal No.:				Cooler Temperature(s) °C and Other Remarks:	Other Remarks: (TILLS	1
						31000000 N

Client: Hanson Aggregates PA LLC

Job Number: 460-146882-1

Login Number: 146882 List Source: TestAmerica Edison

List Number: 1

Creator: Gilmore, Julie L

ordator. Omnoro, dano E		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	IR KOP#1 1.3
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Client: Hanson Aggregates PA LLC

Job Number: 460-146882-1

Login Number: 146882
List Source: TestAmerica Savannah
List Number: 2
List Creation: 12/14/17 12:34 PM

Creator: Hopkins, Ashley

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Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	