

August 30, 2016

ATC Group Services Attn: Mr. Robert Smith 46555 Humboldt, Suite 100 Novi, MI 48377

Project: Matrix Head Start

Dear Mr. Robert Smith,

Enclosed is a copy of the laboratory report for the following work order(s) received by TriMatrix Laboratories:

Work Order Received **Description** 1608382 08/19/2016 Plymouth

This report relates only to the sample(s) as received. Test results are in compliance with the requirements of the National Environmental Laboratory Accreditation Program (NELAP) and/or one of the following certification programs:

DoD-ELAP/ISO17025 (#ADE-1542); Arkansas DEP (#88-0730/13-049-0); Georgia (#026-999-161/1023062); Illinois DEP (#200026/003329); Kentucky DEP (AL123065/#0021); Michigan DPH (#0034); Minnesota DPH (#026-999-161/1023062); New York ELAP (#11776/53116); North Carolina DNRE Virginia DCLS (#460153/7952); Wisconsin DNR (#999472650); USDA Soil Import Permit (#659);(#P330-14-00305).

Any qualification or narration of results, including sample acceptance requirements and test exceptions to the above referenced programs, is presented in the Statement of Data Qualifications and Project Technical Narrative sections of this report. Estimates of analytical uncertainties and certification documents for the test results contained within this report are available upon request.

If you have any questions or require further information, please do not hesitate to contact me.

Sincerely,

Gary L. Wood **Project Chemist**



PROJECT TECHNICAL NARRATIVE(s)

No Project Narrative is associated with this report.



STATEMENT OF DATA QUALIFICATIONS

All analyses have been validated and comply with our Quality Control Program. No Qualification is required.



1608382 Client: **ATC Group Services** Work Order: Project: Matrix Head Start Description: Plymouth

Client Sample ID: 1-KS-P-PLY Sampled: 08/19/16 07:58

Lab Sample ID: 1608382-01 Sampled By: ATC

Matrix: Received: **Drinking Water** 08/19/16 17:32

Metals in Drinking Water by EPA 200 Series Methods

| Analyte | Analytical Result | RL | Dilution Unit Factor | Method | Date Time Analyzed | Ву | QC Batch |
|---------|----------------------|--------|-------------------------|----------------------|-----------------------|-----|-------------|
| Lead | <0.0010 | 0.0010 | mg/L 1 | USEPA-200.8 Rev. 5.4 | 08/26/16 16:33 | MSB | 1608834 |

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Client:ATC Group ServicesWork Order:1608382Project:Matrix Head StartDescription:Plymouth

Client Sample ID: **2-KS-P-PLY** Sampled: 08/19/16 08:04

Lab Sample ID: 1608382-03 Sampled By: ATC

Matrix: Drinking Water Received: 08/19/16 17:32

| Analyte | Analytical Result | RL | Dilution Unit Factor | Method | Date Time Analyzed | Ву | QC Batch |
|---------|----------------------|--------|-------------------------|----------------------|-----------------------|-----|-------------|
| Lead | <0.0010 | 0.0010 | mg/L 1 | USEPA-200.8 Rev. 5.4 | 08/26/16 16:34 | MSB | 1608834 |



1608382 Client: **ATC Group Services** Work Order: Project: Matrix Head Start Description: Plymouth

08/19/16 08:06 Client Sample ID: 3-KS-P-PLY Sampled:

Lab Sample ID: 1608382-05 Sampled By: ATC

Matrix: Received: 08/19/16 17:32 **Drinking Water**

Metals in Drinking Water by EPA 200 Series Methods

| Analyte | Analytical Result | RL | Dilution Unit Factor | Method | Date Time Analyzed | Ву | QC Batch |
|---------|----------------------|--------|-------------------------|----------------------|-----------------------|-----|-------------|
| Lead | <0.0010 | 0.0010 | mg/L 1 | USEPA-200.8 Rev. 5.4 | 08/26/16 16:35 | MSB | 1608834 |

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1608382 Client: **ATC Group Services** Work Order: Project: Matrix Head Start Description: Plymouth

08/19/16 08:09 Client Sample ID: 4-KS-P-PLY Sampled:

Lab Sample ID: 1608382-07 Sampled By: ATC

Matrix: Received: 08/19/16 17:32 **Drinking Water**

| Analyte | Analytical Result | RL | Dilution Unit Factor | Method | Date Time Analyzed | Ву | QC Batch |
|---------|----------------------|--------|-------------------------|----------------------|-----------------------|-----|-------------|
| Lead | 0.0014 | 0.0010 | mg/L 1 | USEPA-200.8 Rev. 5.4 | 08/26/16 16:36 | MSB | 1608834 |



1608382 Client: **ATC Group Services** Work Order: Project: Description: Plymouth Matrix Head Start

08/19/16 08:12 Client Sample ID: **5-DWF-P-PLY-High** Sampled:

Lab Sample ID: 1608382-09 Sampled By: ATC

Matrix: Received: 08/19/16 17:32 **Drinking Water**

Metals in Drinking Water by EPA 200 Series Methods

| Analyte | Analytical Result | RL | Dilution Unit Factor | Method | Date Time Analyzed | Ву | QC Batch |
|---------|----------------------|--------|-------------------------|----------------------|-----------------------|-----|-------------|
| Lead | <0.0010 | 0.0010 | mg/L 1 | USEPA-200.8 Rev. 5.4 | 08/26/16 16:37 | MSB | 1608834 |

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1608382 Client: **ATC Group Services** Work Order: Project: Matrix Head Start Description: Plymouth

08/19/16 08:15 Client Sample ID: 6-DWF-P-PLY-Low Sampled:

Lab Sample ID: 1608382-11 Sampled By: ATC

Matrix: Received: 08/19/16 17:32 **Drinking Water**

| Analyte | Analytical Result | RL | Dilution Unit Factor | Method | Date Time Analyzed | Ву | QC Batch |
|---------|----------------------|--------|-------------------------|----------------------|-----------------------|-----|-------------|
| Lead | <0.0010 | 0.0010 | mg/L 1 | USEPA-200.8 Rev. 5.4 | 08/26/16 16:38 | MSB | 1608834 |



Client:ATC Group ServicesWork Order:1608382Project:Matrix Head StartDescription:Plymouth

Client Sample ID: **7-BS-P-PLY** Sampled: 08/19/16 08:26

Lab Sample ID: **1608382-13** Sampled By: ATC

Matrix: Drinking Water Received: 08/19/16 17:32

| Analyte | Analytical Result | RL | _ | ilution Factor | Method | Date Time Analyzed | Ву | QC Batch |
|---------|----------------------|--------|------|-------------------|----------------------|-----------------------|-----|-------------|
| Lead | 0.0066 | 0.0010 | mg/L | 1 | USEPA-200.8 Rev. 5.4 | 08/26/16 16:44 | MSB | 1608834 |



1608382 Client: **ATC Group Services** Work Order: Project: Matrix Head Start Description: Plymouth

08/19/16 08:29 Client Sample ID: 8-BS-P-PLY Sampled:

Lab Sample ID: 1608382-15 Sampled By: ATC

Matrix: Received: 08/19/16 17:32 **Drinking Water**

| Analyte | Analytical Result | RL | Dilution Unit Factor | Method | Date Time Analyzed | Ву | QC Batch |
|---------|----------------------|--------|-------------------------|----------------------|-----------------------|-----|-------------|
| Lead | 0.0052 | 0.0010 | mg/L 1 | USEPA-200.8 Rev. 5.4 | 08/26/16 16:45 | MSB | 1608834 |



1608382 Client: **ATC Group Services** Work Order: Project: Matrix Head Start Description: Plymouth

08/19/16 08:34 Client Sample ID: 9-KS-P-PLY Sampled:

Lab Sample ID: 1608382-17 Sampled By: ATC

Matrix: Received: 08/19/16 17:32 **Drinking Water**

Metals in Drinking Water by EPA 200 Series Methods

| Analyte | Analytical Result | RL | Dilution Unit Factor | Method | Date Time Analyzed | Ву | QC Batch |
|---------|----------------------|--------|-------------------------|----------------------|-----------------------|-----|-------------|
| Lead | <0.0010 | 0.0010 | mg/L 1 | USEPA-200.8 Rev. 5.4 | 08/26/16 16:46 | MSB | 1608834 |

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1608382 Client: **ATC Group Services** Work Order: Project: Matrix Head Start Description: Plymouth

08/19/16 08:37 Client Sample ID: 10-BS-P-PLY Sampled:

Lab Sample ID: 1608382-19 Sampled By: ATC

Matrix: Received: 08/19/16 17:32 **Drinking Water**

Metals in Drinking Water by EPA 200 Series Methods

| Analyte | Analytical Result | RL | Dilution Unit Factor | Method | Date Time Analyzed | Ву | QC Batch |
|---------|----------------------|--------|-------------------------|----------------------|-----------------------|-----|-------------|
| Lead | <0.0010 | 0.0010 | mg/L 1 | USEPA-200.8 Rev. 5.4 | 08/26/16 16:47 | MSB | 1608834 |

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1608382 Client: **ATC Group Services** Work Order: Project: Matrix Head Start Description: Plymouth

08/19/16 08:41 Client Sample ID: 11-BS-P-PLY Sampled:

Lab Sample ID: 1608382-21 Sampled By: ATC

Matrix: Received: 08/19/16 17:32 **Drinking Water**

| Analyte | Analytical Result | RL | Dilution Unit Factor | Method | Date Time Analyzed | Ву | QC Batch |
|---------|----------------------|--------|-------------------------|----------------------|-----------------------|-----|-------------|
| Lead | 0.0058 | 0.0010 | mg/L 1 | USEPA-200.8 Rev. 5.4 | 08/26/16 16:48 | MSB | 1608834 |



QUALITY CONTROL REPORT

| | Sample | Spike | | | Spike | Control | | RPD | |
|---------|--------|-------|--------|------|--------|---------|-----|----------|----|
| QC Type | Conc. | Qty. | Result | Unit | % Rec. | Limits | RPD | LIIIIIUS | RL |

| Analyte: | Lead | /USEPA-200.8 Rev. 5.4 |
|----------|------|-----------------------|
|----------|------|-----------------------|

| QC Batch: 1608834 (Metals Direct | ct Analysis) | | | | | An | alyzed: 08 | 3/26/20 | 016 By: MSB |
|----------------------------------|--------------|--------|---------|------|-----|--------|------------|---------|-------------|
| Method Blank | | | <0.0010 | mg/L | | | | | 0.0010 |
| Laboratory Control Sample | | 0.0400 | 0.0395 | mg/L | 99 | 85-115 | | | 0.0010 |
| 1608382-11 [6-DWF-P-PLY-Lov | w] | | | | | | | | |
| Matrix Spike | 0.000443 | 0.0200 | 0.0207 | mg/L | 101 | 70-130 | | | 0.0010 |
| Matrix Spike Duplicate | 0.000443 | 0.0200 | 0.0203 | mg/L | 99 | 70-130 | 2 | 20 | 0.0010 |



PRETREATMENT SUMMARY PAGE

Client: ATC Group Services
Project: Matrix Head Start

| Pretreatment | Lab Sample ID | Batch | Ву | Date & Time Prepared | |
|--------------------|---------------|---------|-----|-------------------------|--|
| USEPA 600/R-94/173 | 1608382-01 | 1608834 | JBA | 08/25/16 18:51 | |
| | 1608382-03 | 1608834 | JBA | 08/25/16 18:51 | |
| | 1608382-05 | 1608834 | JBA | 08/25/16 18:51 | |
| | 1608382-07 | 1608834 | JBA | 08/25/16 18:51 | |
| | 1608382-09 | 1608834 | JBA | 08/25/16 18:51 | |
| | 1608382-11 | 1608834 | JBA | 08/25/16 18:51 | |
| | 1608382-13 | 1608834 | JBA | 08/25/16 18:51 | |
| | 1608382-15 | 1608834 | JBA | 08/25/16 18:51 | |
| | 1608382-17 | 1608834 | JBA | 08/25/16 18:51 | |
| | 1608382-19 | 1608834 | JBA | 08/25/16 18:51 | |
| | 1608382-21 | 1608834 | JBA | 08/25/16 18:51 | |



Chain of Custody Record

COC No. 160828086

| e 17 of | S | J. C. | To Sty Charles | 3 | Time | | Date | | | ~ | 2 Received By | 209 | 1 | 8-15-12 | 8 | Tracely and by | | | |
|--------------------------|-------|-------------|---|--|------------|---------|----------|-----------|---------|------------------|---------------|--|-----------|--------------------------------|---------|---|--------------------------------|--------|----------------------------------|
| Time | Date | , | 3. Relinquished By | 3. Relin | 1732 | | 0 | 1-6 | 8-16-1 | | Munc | | | Liste | gy |) will place by | | | Company |
| les | samp | llyze flush | WC=Drinking Water Cooler WC=Drinking Water Cooler BS=Bath Sink Faucet RR=Restroom KS=Kitchen Sink | Drinking Water C S=Bath Sink Fauc RR=Restroom KS=Kitchen Sink | WC=[| abovi | lead is | | | | 4 | | Carrier | Hand | 9 | How Shipped? Tracking No. | | J | Dawn Winther Sampler's Signature |
| Hall @ S. Exit | _ | 19 | | | ur i | | × | DW | × | | 813 | 8/19/16 | M. S | | High | F-PLY | 10 5-DWF-F-PLY - High | ō | 8 |
| Hall @ S. Exit | - | | | | | | | DW X | × | 36.17 | 812 | 8/19/16 | | | - High | 5-DWF-P-PLY - High | 9 5-DWF | 09 | |
| Room #3 | | | | ļ | | 14897EX | × | DW | × | 2000 | 810 | 8/19/16 | | | | PLY | 8 4-KS-F-PLY | 8 | |
| Room #3 | - | | | 3 | | | ^ | × | X D | poorts | 809 | 8/19/16 | | | H | PLY | 7 4-KS-P-PLY | 2 | |
| Room #4 | | | | | | 1000 | × | W | × | 2000 | 807 | 8/19/16 | | | | -PLY | 8 3-KS-F-PLY | 8 | |
| Room #4 | _ | | | | 12: | | ^ | × | × | (20,410 | 806 | 8/19/16 | | 16 | | o-PLY | 5 3-KS-P-PLY | R | |
| Roam #2 | | | | n e | | ded . | × | × | × | 19000 | 805 | 8/19/16 | 16- | 1 | 3 | -PLY | 4 2-KS-F-PLY | 2 | |
| Room #2 | _ | | | | 100 | | ^ | × | × | September 1 | 804 | 8/19/16 | | | H | 2-PLY | 2-KS-P-PLY | 8 | a e |
| Room #1 | _ | | | _ | | 113 | × | × | × | 3830 | 759 | 8/19/16 | | | | :-PLY | 2 1-KS-F-PLY | 2 | |
| Room #1 | > | | X | | | | ^ | × | × | 200 | 758 | 8/19/16 | | N. | 'n | P-PLY | 1-KS-P-PLY | 0 | |
| Total Sample Comments | Total | | Number of Containers Submitted | ontainers | nber of Co | Nun | 1 | Matrix Co | © > Z (| 9200 | Sample | Sample Date | Cooler ID | | nple ID | Field Sample ID | | Sample | Schedule Code |
| | | king List) | Type (corresponds to Container Packing List) | onds to C | (corresp | | nta | 0 | 0 | | | Robert Smith | Rot | robert.smith@atcassociates.net | atcass | ert.smith@ | Email rob | X | 18000 |
| F ZnAn/NaOH pH>92 G MaOH | | | | | 9030 | 11 | | W 0.0000 | nmen | Other (comments) | | Contact/Report To | | × 248-669-5147 | 0 Fax | 8377 248-669-5140 | Novi, MI 48377 Phone: 248-6 | 18 | Work Order No. |
| | | | | | | (6) | lush (F) | rimary (| | | 188BS16284 | Client Project No. / P.O. No. 188BS16284 | Clier | 100 | e Suite | Address 46555 Humboldt Drive Suite 100 City State 7ie | Address 46555 Hum | 9/4 | Project Chemist |
| A NONE pH~7 | 73 | | | | | . 1010 | (1) | | outh | Plym | d Start- | Project Name Matrix Head Start- Plymouth | Proje | 125 | LLC | Client Name ATC Group Services, LLC | ATC Grou | | VOA Rack/Tray |
| CD PRESERVATIVES | | | | | | - | 8 8 | | | 1 | | | | | | | | | |



Chain of Custody Record

COC No. 160828085

| Date Time | Time 3 Received for Leto By Date | Date Ti | | | 1By | 2. Received B | 0 | Date | 6-10 | 1. Regeryed By | | |
|---|---|----------------|-----------|---------|------------------|-----------------------------|---|-----------|------------------|--|------------------|------------------------------------|
| | | 6/ | -19 | B | 2 8 | Min | | Page | | | | Company |
| | BS=Bath Sink Faucet RR=Restroom KS=Kitchen Sink | | | | 3 | | | Called | naile | Tracking No. | S.X | Sampler's Signature |
| samples | If lead is above detection limits, please analyze flush samples WC=Drinking Water Cooler | ad is above de | If le | | nts | Comments | | Coming | Land | How Chinned? | 8 | Sampled By (print) Dawn Winther |
| 1 Girl's RR - East Sink | | × | < | X DW | 765 | 838 | 8/19/16 | | | 10-BS-F-PLY | 90 | B |
| ↑ Girl's RR - East Sink | | | × | X DW | | 837 | 8/19/16 | | | 10-BS-P-PLY | 79 | 10 |
| 1 Kitchen | | × | 2 | X DW | - Carrier | 835 | 8/19/16 | | | 9-KS-F-PLY | <u>~</u> | B |
| 1 Kitchen | | | × | X DW | 25.270 | 834 | 8/19/16 | | | 9-KS-P-PLY | 17 7 |)0 |
| 1 Boy's RR-East Sink | | × | 2 | × DW | *** | 830 | 8/19/16 | | | 8-BS-F-PLY | 160 | پې م |
| 1 Boy's RR-East Sink | | | × | X DW | 10002 | 829 | 8/19/16 | 1 | | 8-BS-P-PLY | 5 | 2 |
| 1 Boy's RR-West Sink | | × | > | X DW | 1020-1 | 827 | 8/19/16 | | | 7-BS-F-PLY | 14 | Di Di |
| 1 Boy's RR-West Sink | | | × | X DW | | 826 | 8/19/16 | | | 7-BS-P-PLY | CZ . | 5(|
| 1 Hall @ S, Exit | | × | > | X DW | | 816 | 8/19/16 | | | 6-DWF-F-PLY - Low | تع | » ک |
| 1 Hall @ S. Exit | | | × | X DW | 2000 | 815 | 8/19/16 | | | 6-DWF-P-PLY - Low | = | 2 |
| Total Sample Comments | Number of Containers Submitted | Numbe | Matrix 6 | w > x c | 7500 | Sample | Sample Date | Cooler ID | J | Field Sample ID | Sample Number | Schedule Matrix Code |
| H Other (note below) | Type (corresponds to Container Packing List) | Sec. 1 | C L | | | | Robert Smith | | sociates.ne | robert.smith@atca | | 10838 |
| | | ead - Flu | ead - Pri | ments | Other (comments) | | Invoice To Contact/Report To | | Fax 248-669-5147 | City, State Zip Novi, MI 48377 Phone: 248-669-5140 F | 100 | Jim.McEaddek Work Order No. |
| C H ₂ SO ₄ pH<2 D 1+1 HCl pH<2 | | ish (F) | mary (F | | 84 | o. / P.O. No. 188BS16284 | Client Project No. / P.O. No. 188BS16284 | Clie | e 100 | Address 46555 Humboldt Drive Suite 100 | 7 | Receipt Log No |
| A NONE pH~7 B HNO ₃ pH<2 | | - Hold | 2) | outh | - Plymo | ad Start | Project Name Matrix Head Start- Plymouth | Proj | | ATC Group Services, LLC | Þ C | VOA Rack/Tray |
| 1 PRESERVATIVES | | В | B | | | | | | 7 | | | |



Chain of Custody Record

COC No. 160828086

| Address Address Address Address Address Claim Polyce No. 1288545234 Claim Polyce No. 190 One. 1888545234 Chor, Mad 337 | Date Time | 3. Represent For Jab By | Date Time | 6 | 8-19 | × (* | Marc 2 Ruceived B | 5 | | Date | 1. Received By | | |
|--|--|---|---------------------------|----------|--------|---------|----------------------|---------------|-----------|--------------|--------------------------------|-------------|---------------------------------|
| Address Addres | | RR=Restroom KS=Kitchen Sink | | | | | Samuel | Time . | Sele | | 1. Resinquished By | They (| Company Company |
| ATC Group Services, LLC Matrix Head Start Plymouth Address Clien Project No. 7. (a. 1885 16284 City, Shae Zip Novi, M 48377 Email robert smith@atcassociates.net Robert Smith Field Sample ID Cooler ID Sample | samples | ion limits, please analyze flush Drinking Water Cooler S=Bath Sink Faucet | d is above detecti WC= | If lead | | | Comment | | Carrier | Hand | How Shipped? | | Sampled By (print) Dawn Winther |
| Artic Group Services, LLC Matrix Head Start- Plymouth Address 48555 Humboldt Drive Suite 100 Client Project No. / P.O. No. 48555 Humboldt Drive Suite 100 Civ. Starte Zp Novi, MI 48377 Phone: 248-689-5140 Fax 248-689-5147 Contact/Report To Email robert smith @atcassociates.net Robert Smith Field Sample ID Cooler ID Sample Sample of Robert Smith 111-BS-P-PLY 8/19/16 841 X DW X Number of Containers Submitted 1 1 1 1 1 1 1 1 1 1 1 1 1 | | | | | | | | | | | | 10 | |
| Address Addres | | | | | | | | | | | | 9 | |
| ATC Group Services, LLC Matrix Head Start- Plymouth Address 46555 Humboldt Drive Suite 100 Citient Project No. / P.O. No. 46555 Humboldt Drive Suite 100 Invoice To. / P.O. No. 4865554 Humboldt Drive Suite 100 Invoice To. / P.O. No. 4865554 Humboldt Drive Suite 100 Invoice To. / Contact/Report To. Contact/Report To | | | | | | | | | | | | œ | |
| ATC Group Services, LLC Matrix Head Start- Plymouth Address Client Project No. / P.O. No. 486555 Humboldt Drive Suite 100 Client Project No. / P.O. No. 188BS162284 Cliv, State Zip Phone: 248-669-5140 Email robert smith@atcassociates.net Field Sample ID Cooler ID Sample Sample Total Number of Container Submitted 1 11-BS-P-PLY 8/19/16 842 X DW X Number of Container Submitted 1 188S-F-PLY 8/19/16 A 19/16 A 19/ | 8 | | | | | | | 15 | | | | 7 | |
| ATC Group Services, LLC Ad55ss Ad55s Humboldt Drive Suite 100 Ad55ss Humboldt Drive Suite 100 Ad55ss Humboldt Drive Suite 100 Ad55ss Humboldt Drive Suite 100 Involce To Involce To | | | | | | | | | | | | 6 | |
| ATC Group Services, LLC Address Client Project No. / P.O. No. 188BS16284 Invoice To Email robert.smith@atcassociates.net 111-BS-P-PLY Address Client Project No. / P.O. No. 188BS16284 Invoice To Elient Ploymouth Address Client Project No. / P.O. No. 188BS16284 Invoice To I | | | | | | | | | 1 | | | 5 | |
| ATC Group Services, LLC Address Address Address Client Project No. / P.O. No. 46555 Humboldt Drive Suite 100 City, State Zip Novi, MI 48377 Phone: 248-669-5140 Fax 248-669-5147 Contact/Report To Email robert smith@atcassociates.net Robert Smith Field Sample ID Cooler ID Sample Sample On Robert Smith Address Cooler ID Sample Sample On Robert Smith Address Contact/Report To Address | | | | | | | | | | | | 4 | |
| ATC Group Services, LLC Address Address A6555 Humboldt Drive Suite 100 Client Project No. / P.O. No. 188BS16284 Invoice To 198BS16284 Invoice To 201ber (comments) 248-669-5147 Contact/Report To Email robert.smith@atcassociates.net Robert Smith Field Sample ID Cooler ID Sample Sample No. A Matrix Container Type (corresponds to Container Packing List) Number of Containers Submitted 1 11-BS-P-PLY 2 11-BS-F-PLY 8/19/16 842 X DW X 1 | | | | | | | | | | | | ы | |
| ATC Group Services, LLC Matrix Head Start- Plymouth Address Address Client Project No. / P.O. No. 188BS16284 City, State Zip Novi, MI 48377 Phone: 248-669-5140 Fax 248-669-5147 Contact/Report To Email robert smith@atcassociates.net Robert Smith Field Sample ID Cooler ID Sample Sample O R Matrix Time M A Matrix Number of Container Submitted 111-BS-P-PLY A DW X | | | × | | | v | 842 | 8/19/16 | | | 1-BS-F-PLY | N | 02 |
| ATC Group Services, LLC Address Address Client Project No. / P.O. No. 188BS16284 City, State Zip Novi, MI 48377 Phone: 248-669-5140 Fax 248-669-5147 Contact/Report To Email robert smith@atcassociates.net Robert Smith Field Sample ID Cooler ID | | | | | | ~ | 841 | 8/19/16 | | | 1-BS-P-PLY | 144 | 0/ |
| ATC Group Services, LLC Matrix Head Start- Plymouth Address Client Project No. / P.O. No. 188BS16284 City, State Zip Novi, MI 48377 Phone: 248-669-5140 Fax 248-669-5147 Contact/Report To Email robert.smith@atcassociates.net Robert Smith Container Type (corresponds to Container Packing List) H | | Containers Submitted | 1000000 | 6 | 100.00 | | Sample | | Cooler ID | | Field Sample ID | umber | Schedule Code N |
| ATC Group Services, LLC Matrix Head Start- Plymouth Address Client Project No. / P.O. No. 188BS16284 City, State Zip Novi, MI 48377 Phone: 248-669-5147 Contact/Record To Other (comments) a a a a a a a a a a a a a a a a a a a | | ponds to Container Packing List) | liner Type (corresp | Conta | | | | pert Smith | 3.500 | sociates nei | | | 1608382 |
| Services, LLC Matrix Head Start- Plymouth Client Project No. / P.O. No. 188BS16284 D B C C C C C C C C C C C C | | 31 | ead - F | ead - Pr | ments) | er (com | | ice Io | | | MI 48377 248-669-5140 | 150 | Jim MoFadded |
| roup Services, LLC Matrix Head Start- Plymouth | | | ush (F) | imary (l | | 4.5 | 88BS1628 | nt Project No | Clier | e 100 | ess 55 Humboldt Drive Suite | Addr 465 | Receipt Log No |
| Project Name old | A NONE pH~7 B HNO ₃ pH<2 | | - Hold | P) | uth | Plymo | ad Start- | Matrix He | Proj | | Group Services, LLC | ATO | VOA Rack/Tray |
| В | ♦⊐ PRESERVAT | | 00 | в | | | 2 | | | | | | |

L

SAMPLE RECEIVING / LOG-IN CHECKLIST

| TRIMATRI LABORATORI | x Cherr at TC-9/4 | TOUTH NOW (BE) WORK | inder#1608382 |
|--|--|--|--|
| LABORATORI | E S Receipt Record Page/Line # 3 | Project menus Sample | * 01-22 |
| Recorded by (initials/date) | Cooler City Receive | The second secon | See Additional Cooler |
| DN 8/19/1 | Box Other | Thermometer Used Digital Thermome | eter (#54) Information Form |
| COMPLY TX 1900 2033 | Cooler # Time | Cooler # Time | Cooler # Time |
| Custody Seals: | Custody Seals: | Custody Seals: | Custody Seals: |
| None Present / Intact | □ None □ Present / Intact | □ None □ Present / Intact | □ None □ Present / Intact |
| Present / Not Intact | Present / Not Intact | Present / Not Intact | Present / Not Intact |
| Coolant Type: | Coolant Type: | Coolant Type: | Coolant Type: |
| □ Loose Ice | □ Loose Ice | ☐ Loose Ice | □ Loose Ice |
| ☐ Bagged Ice ☐ Blue Ice | ☐ Bagged Ice ☐ Blue Ice | ☐ Bagged Ice | ☐ Bagged Ice |
| None | ☐ None | □ None | □ None |
| Coolant Location: | Coolant Location: | Coolant Location: | Coolant Location: |
| Dispersed / Top / Middle / Bottom | Dispersed / Top / Middle / Bottom | Dispersed / Top / Middle / Bottom | Dispersed / Top / Middle / Botton |
| Temp Blank Present Yes No | Temp Blank Present. ☐ Yes ☐ No | Temp Blank Present: ☐ Yes ☐ No | Temp Blank Present: ☐ Yes ☐ No |
| If Present, Temperature Blank Location is: | If Present, Temperature Blank Location is: | If Present, Temperature Blank Location is: | If Present, Temperature Blank Location is |
| Representative Not Representative | ☐ Representative ☐ Not Representative | Representative Not Representative | Representative Not Representative |
| Observed Correction Actual *C | Observed Correction Actual *C Factor *C Actual *C | Observed Correction Factor *C Actual *C | Observed Correction "C Factor "C Actual "C |
| Temp Stank: | Temp Blank: | Temp Blank: | Temp Blank: |
| Sample 1: 25.8 D 25.8 | Sample 1: | Sample 1: | Sample 1: |
| Sample 2 25.2 0 25.2 | Sample 2: | Sample 2 | Sample 2 |
| Sample 3: 25. 1 0 25. 1 | Sample 3: | Sample 3: | Sample 3 |
| 3 Sample Average °C: 23-7 | 3 Sample Average °C: | 3 Sample Average °C: | 3 Sample Average °C: |
| Cooler ID on COC? VOC Trip Blank received? | ☐ Cooler ID on COC? ☐ VOC Trip Blank received? | ☐ Cooler ID on COC? ☐ VOC Trip Blank received? | ☐ Cooler ID on COC? ☐ VOC Trip Blank received? |
| | | | |
| Paperwork Received | reas checked, complete Sample N | eceiving Non-Conformance and/o | r inventory Form |
| Yes No | | Check Sample Preservation | |
| Chain of Custody record(s)? | If No. Initiated By | | nk OR average sample temperature, ≥6° C? |
| Received for Lab Signed/Da | A CAPITAL SECTION SECT | frame. | was thermal preservation required? |
| Shipping document? | | | t Chemist Approval Initials: |
| Other | | | eted Non Con Cooler - Cont Inventory Form? |
| COC Information | | Completed Samp | le Preservation Verification Form? |
| TriMatrix COC D Other | 07 | Completed Samp Samples chemics If "No", added ora | illy preserved correctly? |
| COC ID Numbers: 1608282 | 86 | | |
| 1608280 | 83 | Received pre-pre | served VOC soils? Na ₂ SO ₄ |
| Check COC for Accuracy | | Check for Short Hold-Time Prep/A | |
| Yes No | | ☐ Bacteriological | |
| Analysis Requested? | | ☐ Air Bags | AFTER HOURS ONLY: |
| Sample ID matches COC? Sample Date and Time mat | | ☐ EnCores / Methanol Pre-Preserved | COPIES OF COC TO LAB AREA(S) |
| Container type completed o | | ☐ Formaldehyde/Aldehyde ☐ Green-tagged containers | NONE RECEIVED RECEIVED, COCs TO LAB(S) |
| All container types indicated | STATE OF THE PROPERTY OF THE PARTY OF THE PA | ☐ Yellow/White-tagged 1 L ambers (SV F | VI - 10 - 10 - 10 - 10 - 10 - 10 - 10 - 1 |
| Sample Condition Summary | | Notes | |
| N/A Yes No | | | |
| Broken container | s/lids? | | |
| Missing or incom | | | |
| Illegible information | ACCESSANCE OF THE SECOND SECON | | |
| Low volume rece | | | lank not listed on COC |
| 2 00000 | non-TriMatrix containers received? | Cooler Received (Date Time) Paperwork | Delivered (Date/Time) ≤1 Hour Goal Met? |
| The second secon | containers have headspace? ations / containers not listed on COC? | N 9/19/1/2 9 | /19/// Yes / No |
| CXII a sample loca | TOTAL CONTRACTOR HOLISTER OF COUR | 7 011114 0 | 1111/2 |

SAMPLE PRESERVATION VERIFICATION FORM page ______ of _____

| leceipt Log | TC- | 7141 | TOUTH | | Project Chamists | 0400 | | |
|--|--|---|--|------------------------------|--------------------------------------|----------------|--|--|
| 3 | 8-21 | / ' | Completed By (initials/da | 8/19/16 | Project Chemisk | (0) | | |
| OC 10# 160 | 8282 | 086 | Adjusted by: Date: | DO NOT AD | JUST pH FOR THESE C | ONTAINER TYPES | pH Strip R | leagent # |
| Container Type | 5/23 | 4 | 13 | 6 | 15 | 1/4 | | |
| Tag Color | Lt. Blue | Blue | Brown | Red | Red Stripe | | | |
| Preservative | NaOH | H ₂ SO ₄ | H ₂ SO ₄ | HNO3 | HNO ₃ | | | |
| Expected pH | >12 | <2 | <2 | <2 | <2 | | | |
| COC Line #1 | | | | 1 | | | Aqueous Samp each sample ar | |
| COC Line #2 | | | | / | | | type, check the | |
| COC Line #3 | | | | / | | | acceptable. If p | H is not |
| COC Line #4 | 1 = 12 | | Y . | 1 | Tra Control | | acceptable for a | |
| COC Line #5 | | | | 1 | | 7 7 2 7 | container, recor | |
| COC Line #6 | | | | V | | | Receiving Chec | klist and on |
| Se Western Co. 1 190 | | | 1714 | | | | Sample Receivi | |
| COC Line #7 | | | | V | | - 10 | Conformance F approved by Pro | |
| COC Line #8 | A STATE OF THE STA | | Terror Harris | | | Eff Black | add acid or bas | |
| | | | | 1/ | - | P SEE | sample to achie | |
| COC Line #9 | | | | | | | | |
| COC Line #10 | | | | | | | pH. Add up to, exceed 2x the v added at contain table below for it used). Add oral sample contains | olume initiall ner prep (see initial volume nge pH tag to er and record |
| COC Line #10 Comments | 8280 | 085 | Adjusted by:Date: | DO NOT AD | JUST pH FOR THESE C | ONTAINER TYPES | exceed 2x the v added at contain table below for in used). Add ora | olume initially ner prep (see initial volume nge pH tag to er and recorduested. If pH on this digest pH for |
| COC Line #10 Comments COC ID # 160 | ý | 9.2 | Date: | | | ONTAINER TYPES | exceed 2x the v added at contain table below for i used). Add oral sample contains information required Record adjusted form. Do not ac | olume initially ner prep (see initial volume nge pH tag to er and record uested. d pH on this djust pH for |
| COC Line #10 Comments OC ID # /// Container Type | 5/23 | 9.2 | Date: | 6 | 15 | ONTAINER TYPES | exceed 2x the v added at contain table below for i used). Add oral sample contains information required Record adjusted form. Do not ac | olume initially ner prep (see initial volume nge pH tag to er and record uested. d pH on this djust pH for 6 and 15. |
| COC Line #10 Comments OC ID # 160 | ý | 9.2 | Date: | | | ONTAINER TYPES | exceed 2x the v added at contain table below for in used). Add or a sample contains information required Record adjusted form. Do not accontainer types | olume initially ner prep (see initial volume nge pH tag to er and record uested. d pH on this djust pH for 6 and 15. |
| COC Line #10 Comments OC ID # 160 Container Type Tag Color | 5 / 23 Lt. Blue | 9. 2 4 Blue | Date:13 Brown | 6 Red | 15 Red Stripe | ONTAINER TYPES | exceed 2x the v added at contain table below for in used). Add or a sample contains information required Record adjusted form. Do not accontainer types | olume initially ner prep (see initial volume nge pH tag to er and record uested. d pH on this djust pH for 6 and 15. |
| COC Line #10 Comments OC ID # /// Container Type Tag Color Preservative | 5 / 23 Lt. Blue NaOH | 9. 2 4 Blue H ₂ SO ₄ | 13 Brown H ₂ SO ₄ | 6 Red HNO ₃ | 15 Red Stripe HNO ₃ | ONTAINER TYPES | exceed 2x the v added at contain table below for in used). Add or a sample contains information required Record adjusted form. Do not accontainer types | olume initially ner prep (see initial volume nge pH tag to er and recorduested. d pH on this djust pH for 6 and 15. Original Vol. of Preservative |
| COC Line #10 Comments OC ID # 160 Container Type Tag Color Preservative Expected pH | 5 / 23 Lt. Blue NaOH | 9. 2 4 Blue H ₂ SO ₄ | 13 Brown H ₂ SO ₄ | 6 Red HNO ₃ <2 | 15 Red Stripe HNO ₃ | ONTAINER TYPES | exceed 2x the v added at contain table below for i used). Add ora sample containe information requ Record adjuster form. Do not ac container types Container Size (mL) | olume initially ner prep (see initial volume nge pH tag to er and record uested. d pH on this dijust pH for 6 and 15. Original Vol. of Preservative (mL) |
| COC Line #10 Comments OC ID # // C Container Type Tag Color Preservative Expected pH COC Line #1 | 5 / 23 Lt. Blue NaOH | 9. 2 4 Blue H ₂ SO ₄ | 13 Brown H ₂ SO ₄ | 6 Red HNO ₃ | 15 Red Stripe HNO ₃ | ONTAINER TYPES | exceed 2x the vadded at containable below for insection used). Add oral sample contained information requirements and adjusted form. Do not accontainer types Container Size (mL) Container Type 5 | olume initially ner prep (see initial volume nge pH tag to er and record uested. d pH on this dijust pH for 6 and 15. Original Vol. of Preservative (mL) NaOH 2.5 |
| COC Line #10 Comments OC ID # // COC Line #1 COC Line #1 COC Line #2 | 5 / 23 Lt. Blue NaOH | 9. 2 4 Blue H ₂ SO ₄ | 13 Brown H ₂ SO ₄ | 6 Red HNO ₃ <2 | 15 Red Stripe HNO ₃ | ONTAINER TYPES | exceed 2x the v added at contain table below for i used). Add ora sample contains information requ Record adjuster form. Do not ac container types Container Size (mL) Container Type 5 500 1000 | olume initially ner prep (see initial volume nge pH tag to er and record uested. d pH on this djust pH for 6 and 15. Original Vol. o Preservative (mL) NaOH 2.5 5.0 |
| COC Line #10 Comments OC ID # // COC Container Type Tag Color Preservative Expected pH COC Line #1 COC Line #2 COC Line #3 COC Line #4 | 5 / 23 Lt. Blue NaOH | 9. 2 4 Blue H ₂ SO ₄ | 13 Brown H ₂ SO ₄ | 6 Red HNO ₃ <2 | 15 Red Stripe HNO ₃ | ONTAINER TYPES | exceed 2x the vadded at contain table below for used). Add or a sample contained information requirements and adjusted form. Do not accontainer types Container Size (mL) Container Type 5 500 1000 Container Type 4 | olume initially ner prep (see initial volume nge pH tag to er and record uested. d pH on this djust pH for 6 and 15. Original Vol. o Preservative (mL) NaOH 2.5 5.0 H ₂ SO ₄ |
| COC Line #10 Comments OC ID # // COC Line #1 COC Line #2 COC Line #3 COC Line #4 COC Line #5 | 5 / 23 Lt. Blue NaOH | 9. 2 4 Blue H ₂ SO ₄ | 13 Brown H ₂ SO ₄ | 6 Red HNO ₃ <2 | 15 Red Stripe HNO ₃ | ONTAINER TYPES | exceed 2x the v added at containtable below for investigation and information requirements form. Do not accontainer types Container Type 5 500 1000 Container Type 4 | olume initially ner prep (see initial volume nge pH tag to er and record uested. d pH on this dijust pH for 6 and 15. Original Vol. of Preservative (mL) NaOH 2.5 5.0 H ₂ SO ₄ 0.5 |
| COC Line #10 Comments OC ID # // COC Line #1 COC Line #2 COC Line #3 COC Line #4 COC Line #5 COC Line #8 | 5 / 23 Lt. Blue NaOH | 9. 2 4 Blue H ₂ SO ₄ | 13 Brown H ₂ SO ₄ <2 | 6 Red HNO ₃ <2 | 15 Red Stripe HNO ₃ | ONTAINER TYPES | exceed 2x the vadded at containable below for insection with the sample container information requirements. The sample container requirements of the sample container requirements. The sample container requirements form. Do not accontainer types. Container Type 5 500 1000 Container Type 4 125 250 | olume initially ner prep (see initial volume nge pH tag to er and record uested. d pH on this dijust pH for 6 and 15. Original Vol. of Preservative (mL) NaOH 2.5 5.0 H ₂ SO ₄ 0.5 |
| COC Line #10 Comments OC ID # J C Container Type Tag Color Preservative Expected pH COC Line #1 COC Line #2 COC Line #3 COC Line #4 COC Line #5 COC Line #5 COC Line #7 | 5 / 23 Lt. Blue NaOH | 9. 2 4 Blue H ₂ SO ₄ | 13 Brown H ₂ SO ₄ <2 | 6 Red HNO ₃ <2 | 15 Red Stripe HNO ₃ | ONTAINER TYPES | exceed 2x the vadded at contain table below for used). Add or a sample contains information required form. Do not accontainer types. Container Size (mL) Container Type 5 500 1000 Container Type 4 125 250 500 | olume initially ner prep (see initial volume nge pH tag to er and record uested. d pH on this djust pH for 6 and 15. Original Vol. of Preservative (mL) NaOH 2.5 5.0 H ₂ SO ₄ 0.5 1.0 2.0 |
| COC Line #10 Comments OC ID # // COC Line #1 COC Line #2 COC Line #3 COC Line #4 COC Line #5 COC Line #5 | 5 / 23 Lt. Blue NaOH | 9. 2 4 Blue H ₂ SO ₄ | 13 Brown H ₂ SO ₄ <2 | 6 Red HNO ₃ <2 | 15 Red Stripe HNO ₃ | ONTAINER TYPES | exceed 2x the vadded at containable below for insection with the sample container information requirements. The sample container requirements of the sample container requirements. The sample container requirements form. Do not accontainer types. Container Type 5 500 1000 Container Type 4 125 250 | olume initially ner prep (see initial volume nge pH tag to er and record uested. d pH on this dijust pH for 6 and 15. Original Vol. of Preservative (mL) NaOH 2.5 5.0 H ₂ SO ₄ 0.5 1.0 |
| COC Line #10 Comments OC ID # J C Container Type Tag Color Preservative Expected pH COC Line #1 COC Line #2 COC Line #3 COC Line #4 COC Line #5 COC Line #5 COC Line #7 | 5 / 23 Lt. Blue NaOH | 9. 2 4 Blue H ₂ SO ₄ | 13 Brown H ₂ SO ₄ <2 | 6 Red HNO ₃ <2 | 15 Red Stripe HNO ₃ | ONTAINER TYPES | exceed 2x the vadded at contain table below for used). Add or a sample contains information required form. Do not accontainer types. Container Size (mL) Container Type 5 500 1000 Container Type 4 125 250 500 | olume initially ner prep (see initial volume nge pH tag to er and record uested. d pH on this djust pH for 6 and 15. Original Vol. of Preservative (mL) NaOH 2.5 5.0 H ₂ SO ₄ 0.5 1.0 2.0 |

TRIMATRIX

Receipt Log #

SAMPLE PRESERVATION VERIFICATION FORM

page _2 of _2

Work Order # 160 f 3 8 2

| OCID#/LPC | 1828C | 9.3 | Adjusted by:_ Date: | | DO NOT AD | JUST pH FOR | THESE CONT | AINER TYPE |
|----------------|----------|--------|--------------------------------|-------|------------------|------------------|------------|------------|
| Container Type | 5/23 | 4 | 13 | | 6 | 15 | | |
| Tag Color | Lt. Blue | Blue | Brown | | Red | Red Stripe | | |
| Preservative | NaOH | H₂SO₂ | H ₂ SO ₄ | | HNO ₃ | HNO ₃ | | |
| Expected pH | >12 | <2 | <2 | | <2 | <2 | | |
| COC Line W1 | | | | 15 71 | V | | 1 | - 5 |
| COC Line #2 | | | | 7 | | | 4 , , , | |
| COC Line #3 | 1000 | | 14 | 2.7 | - | 181 | | 1- 3- |
| COC Line #4 | | | | | | | | |
| COC Line #5 | | | | | | THE RES | 11. 12 | 200 |
| COC Line #6 | | 1.56 | | | | | | |
| COC Line #7 | | | | | V T C | 383 | 77 % | Tex 8 |
| COC Line #8 | Way. | | | 19.00 | | | | |
| COC Line #9 | | | | | | Jedj. T | 34.113.1 | - 17 |
| COC Line #10 | | - 14 - | | | | | | |

pH Strip Reagent # 6060635

Aqueous Samples: For

each sample and container type, check the box if pH is acceptable. If pH is not acceptable for any sample container, record pH in box. and note on Sample Receiving Checklist and on Sample Receiving Non-Conformance Form. If approved by Project Chemist, add acid or base to the sample to achieve the correct pH. Add up to, but do not exceed 2x the volume initially added at container prep (see table below for initial volumes used). Add orange pH tag to sample container and record information requested.

| Kecon | a adjusted pH on this |
|--------|-----------------------|
| form. | Do not adjust pH for |
| contai | ner types 6 and 15. |
| | |

| OC ID# | | | Adjusted by: Date: | DO NOT A | OJUST pH FOR | THESE CONTA | AINER TYPES |
|----------------|--------------|--------------------------------|--------------------------------|------------------|------------------|-------------|-------------|
| Container Type | 5/23 | 4 | 13 | 6 | 15 | | 1 |
| Tag Color | Lt. Biue | Blue | Brown | Red | Red Stripe | | 17 |
| Preservative | NaOH | H ₂ SO ₄ | H ₂ SO ₄ | HNO ₃ | HNO ₃ | | |
| Expected pH | >12 | <2 | <2 | <2 | <2 | | The Late of |
| COC Line #1 | P PLY | | | | | | The s |
| COC Line #2 | | Party | | | A COLOR | | 10.00 |
| COC Line #3 | MIR SE | | | | TO ALE | | 14 |
| COC Line #4 | | | | | 18-16- | | F |
| COC Line #5 | | | | | TA F | T digg | |
| COC Line #6 | | | | | 100 | | RAN US |
| COC Line #7 | C. 1 | | | | | | |
| COC Line #8 | | | | 775 | 130 | - Mark | |
| COC Line #9 | 4 4 5 | 1. 3.0.5 | ME NO | | | | |
| COC Line #10 | | | | | | | |

| Container Size (mL) | Preservative (mL) |
|------------------------|--------------------------------|
| Container Type 5 | NaOH |
| 500 | 2.5 |
| 1000 | 5.0 |
| Container Type 4 | H ₂ SO ₄ |
| 125 | 0.5 |
| 250 | 1,0 |
| 500 | 2,0 |
| 1000 | 4.0 |
| Container Type 13 | H ₂ SO ₄ |
| 500 | 2.5 |