DENR USE ONLY: [X] Paper Report [ ] Electronic Data - Email CD (data loaded: Yes / No ) Doc/Event #:

NC DENR
Division of Waste Management - Solid Waste

# Environmental Monitoring Reporting Form

Notice: This form and any information attached to it are "Public Records" as defined in NC General Statute 132-1. As such, these documents are available for inspection and examination by any person upon request (NC General Statute 132-6).

Instructions:

- Prepare one form for each individually monitored unit.
- Please type or print legibly.
- Attach a notification table with values that attain or exceed NC 2L groundwater standards or NC 2B surface water standards. The notification must include a preliminary analysis of the cause and significance of each value. (e.g. naturally occurring, off-site source, pre-existing condition, etc.).
- Attach a notification table of any groundwater or surface water values that equal or exceed the reporting limits.
- Attach a notification table of any methane gas values that attain or exceed explosive gas levels. This includes any structures on or nearby the facility (NCAC 13B .1629 (4)(a)(i).
- In accordance with NC General Statutes Chapter 89C and 89E and NC Solid Waste Management Rules 15A NCAC 13B, be sure to affix a seal to the bottom of this page, when applicable.
- Send the original signed and sealed form, any tables, and Electronic Data Deliverable to: Compliance Unit, NCDENR-DWM, Solid Waste Section, 1646 Mail Service Center, Raleigh, NC 27699-1646.

## Solid Waste Monitoring Data Submittal Information


Name of entity submitting data (laboratory, consultant, facility owner):

Domtar Paper Company, LLC

Contact for questions about data formatting. Include data preparer's name, telephone number and E-mail address:

Name: Bill Morris Phone: 252-793-8494

E-mail: bill.morris@n.domtar.com

| Facility name: | Facility Address: | Facility Permit # | NC Landfill Rule: (.0500 or .1600) | Actual sampling dates (e.g., October 20-24, 2006) |
|---|---|---|---|---|
| Domtar (Plymouth) | P.O. Box 747<br>Plymouth, N.C. 27962 | 94-01 | .0500 | 8-25-08 |

Environmental Status: (Check all that apply)

[ ] Initial/Background Monitoring [X] Detection Monitoring [ ] Assessment Monitoring [ ] Corrective Action

Type of data submitted: (Check all that apply)

[X] Groundwater monitoring data from monitoring wells
[ ] Groundwater monitoring data from private water supply wells
[X] Leachate monitoring data
[X] Surface water monitoring data
[ ] Methane gas monitoring data
[ ] Corrective action data (specify) _____
[ ] Other(specify) _____

Notification attached?

[ ] No. No groundwater or surface water standards were exceeded.
[X] Yes, a notification of values exceeding a groundwater or surface water standard is attached. It includes a list of groundwater and surface water monitoring points, dates, analytical values, NC 2L groundwater standard, NC 2B surface water standard or NC Solid Waste GWPS and preliminary analysis of the cause and significance of any concentration.
[ ] Yes, a notification of values exceeding an explosive methane gas limit is attached. It includes the methane monitoring points, dates, sample values and explosive methane gas limits.

## Certification

To the best of my knowledge, the information reported and statements made on this data submittal and attachments are true and correct. Furthermore, I have attached complete notification of any sampling values meeting or exceeding groundwater standards or explosive gas levels, and a preliminary analysis of the cause and significance of concentrations exceeding groundwater standards. I am aware that there are significant penalties for making any false statement, representation, or certification including the possibility of a fine and imprisonment.

Billy W. Morris Env. Engineer

Facility Representative Name (Print) Title (Area Code) Telephone Number

Signature 10-7-08 Date

Affix NC Licensed/ Professional Geologist/Engineer Seal here:

Revised 01/2007

## Table of Values Which Exceed Established Standards
## And/Or Exceed Reporting Levels

Facility Name: DOMTAR PAPER CO., LLC  Permit #: 9401  Lab ID# 6020

| Location | Collection Date | Exceeds Std | Parameter | CAS # | Result, ug/l | NC 2L STD ** | NC GWP STD ** | NC 2B SWS ** |
|---|---|---|---|---|---|---|---|---|
| Well #1 | 08/25/2008 | | Zinc | 7440-66-6 | 19 | 1050 | | |
| Well #10 | 08/25/2008 | | Zinc | 7440-66-6 | 11 | 1050 | | |
| Well #11 | 08/25/2008 | | Zinc | 7440-66-6 | 20 | 1050 | | |
| Well #13 | 08/25/2008 | | Zinc | 7440-66-6 | 18 | 1050 | | |
| Well #1A | 08/25/2008 | | Zinc | 7440-66-6 | 28 | 1050 | | |
| Well #2 | 08/25/2008 | | Zinc | 7440-66-6 | 15 | 1050 | | |
| Well #3 | 08/25/2008 | | Beryllium | 7440-41-7 | 2 | | 4 | |
| Well #3 | 08/25/2008 | | Copper | 7440-50-8 | 14.0 | 1000 | | |
| Well #3 | 08/25/2008 | | Zinc | 7440-66-6 | 10 | 1050 | | |
| Well #5 | 08/25/2008 | | Arsenic | 7440-38-2 | 10 | 50 | | |
| Well #5 | 08/25/2008 | | Barium | 7440-39-3 | 211 | 2000 | | |
| Well #7 | 08/25/2008 | | Zinc | 7440-66-6 | 30 | 1050 | | |
| Well #8 | 08/25/2008 | | Zinc | 7440-66-6 | 12 | 1050 | | |
| Well #9 | 08/25/2008 | | Zinc | 7440-66-6 | 13 | 1050 | | |

** Note: NC 2L STD = NC 2L Ground Water Standard
NC GWP STD = NC Solid Waste Groundwater Protection Standard
NC 2B SWS = NC 2B Surface Water Standard

# Environment 1, Incorporated

Wastewater ID: 10

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
FAX (252) 756-0633

ID#: 6020

DOMTAR PAPER CO., LLC
MS. DIANE HARDISON
ENVIRONMENTAL SUPERVISOR
P.O. BOX 787
PLYMOUTH ,NC 27962

DATE COLLECTED: 08/25/08
DATE REPORTED : 09/29/08

REVIEWED BY:

| PARAMETERS | MDL | SWSL | Well #1 | Well #2 | Well #3 | Well #4 | Well #5 | Analysis Date | Analyst | Method Code |
|---|---|---|---|---|---|---|---|---|---|---|
| PH (field measurement), Units | | | 4.9 | 7.5 | 6.0 | 5.7 | 6.6 | 08/25/08 | RJH | SM4500HB |
| Sulfate, mg/l | 5.0 | 250.0 | 59.0 J | 235.9 J | 13.1 J | 12.3 J | 27.2 J | 08/27/08 | TRB | SM4500-SO4 |
| Antimony, ug/l | 0.44 | 6.0 | 0.1 J | 0.1 J | --- U | --- U | --- U | 08/27/08 | CMF | EPA200.8 |
| Arsenic, ug/l | 0.57 | 10.0 | 1.0 J | | 1.2 J | | | 08/27/08 | CMF | EPA200.8 |
| Arsenic, ug/l | 0.57 | 10.0 | | 9 J | | 0.6 J | 10 | 09/03/08 | CMF | SM3113B |
| Barium, ug/l | 0.11 | 100.0 | 44.0 J | 55.2 J | 43.9 J | 18.3 J | 211 | 08/27/08 | CMF | EPA200.8 |
| Beryllium, ug/l | 0.06 | 1.0 | 0.7 J | --- U | 2 | 0.1 J | 0.5 J | 08/27/08 | CMF | EPA200.8 |
| Cadmium, ug/l | 0.05 | 1.0 | 0.1 J | 0.3 J | 0.1 J | --- U | --- U | 08/27/08 | CMF | EPA200.8 |
| Cobalt, ug/l | 0.03 | 10.0 | 5.0 J | 1.1 J | 3.3 J | 0.6 J | 0.6 J | 08/27/08 | CMF | EPA200.8 |
| Copper, ug/l | 0.05 | 10.0 | 0.4 J | 9.2 J | 14.0 | 0.3 J | 9.6 J | 08/27/08 | CMF | EPA200.8 |
| Total Chromium, ug/l | 0.11 | 10.0 | --- U | --- U | --- U | --- U | --- U | 08/27/08 | CMF | EPA200.8 |
| Lead, ug/l | 0.32 | 10.0 | 0.1 J | 0.3 J | 0.3 J | 3..1J | 3.6 J | 08/27/08 | CMF | EPA200.8 |
| Nickel, ug/l | 0.06 | 50.0 | 6.7 J | 2.8 J | 3.0 J | 2.4 J | 1.8 J | 08/27/08 | CMF | EPA200.8 |
| Selenium, ug/l | 0.51 | 10.0 | 0.7 J | | 0.5 J | | | 08/27/08 | CMF | EPA200.8 |
| Selenium, ug/l | 0.51 | 10.0 | | --- U | | 0.4 J | --- U | 09/05/08 | CMF | SM3113B |
| Silver, ug/l | 0.04 | 10.0 | --- U | 0.2 J | 0.1 J | --- U | 0.1 J | 08/27/08 | CMF | EPA200.8 |
| Thallium, ug/l | 0.63 | 5.0 | --- U | 0.1 J | --- U | --- U | 0.3 J | 08/27/08 | CMF | EPA200.8 |
| Vanadium, ug/l | 0.07 | 25.0 | 1.5 J | 1.9 J | 0.6 J | 1.4 J | 6.7 J | 08/27/08 | CMF | EPA200.8 |
| Zinc, ug/l | 0.04 | 10.0 | 19 | 15 | 10 | 6.9 J | 8.7 J | 08/27/08 | CMF | EPA200.8 |
| Conductivity (at 25c), uMhos | 1.0 | 1.0 | 467 | 5970 | 157 | 143 | 4300 | 08/25/08 | RJH | SM2510B |
| Temperature, °C | | | 20 | 20 | 21 | 19 | 19 | 08/25/08 | RJH | SM2550B |
| Static Water Level, feet | | | 11.71 | 23.12 | 7.38 | 9.28 | 15.58 | 08/25/08 | RJH | |
| Well Depth, feet | | | 22.48 | 25.81 | 25.01 | 20.17 | 23.27 | 08/25/08 | RJH | |

J = Between MDL and SWSL, U = Below ALL Quanititation Limits.

Environment 1, Incorporated

Wastewater ID: 10

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
FAX (252) 756-0633

ID#: 6020

DOMTAR PAPER CO., LLC
MS. DIANE HARDISON
ENVIRONMENTAL SUPERVISOR
P.O. BOX 787
PLYMOUTH ,NC 27962

DATE COLLECTED: 08/25/08
DATE REPORTED : 09/29/08

REVIEWED BY:

| PARAMETERS | MDL | SWSL | Well #6 | Well #7 | Well #8 | Well #9 | Well #10 | Analysis Date | Analyst | Method Code |
|---|---|---|---|---|---|---|---|---|---|---|
| PH (field measurement), Units | | | 5.4 | 4.6 | 5.8 | 4.8 | 5.5 | 08/25/08 | RJH | SM4500HB |
| Sulfate, mg/l | 5.0 | 250.0 | 14.3 J | 36.5 J | 8.7 J | 5.4 J | 15.3 J | 08/27/08 | TRB | SM4500-SO4 |
| Antimony, ug/l | 0.44 | 6.0 | --- U | 0.4 J | --- U | --- U | --- U | 08/27/08 | CMF | EPA200.8 |
| Arsenic, ug/l | 0.57 | 10.0 | --- U | 1.8 J | 0.4 J | 0.2 J | 0.2 J | 08/27/08 | CMF | EPA200.8 |
| Barium, ug/l | 0.11 | 100.0 | 34.2 J | 41.1 J | 50.7 J | 80.9 J | 43.8 J | 08/27/08 | CMF | EPA200.8 |
| Beryllium, ug/l | 0.06 | 1.0 | 0.2 J | 0.7 J | 0.1 J | 0.6 J | 0.1 J | 08/27/08 | CMF | EPA200.8 |
| Cadmium, ug/l | 0.05 | 1.0 | 0.1 J | 0.1 J | 0.1 J | 0.1 J | 0.1 J | 08/27/08 | CMF | EPA200.8 |
| Cobalt, ug/l | 0.03 | 10.0 | 2.3 J | 7.7 J | 0.8 J | 6.6 J | 1.3 J | 08/27/08 | CMF | EPA200.8 |
| Copper, ug/l | 0.05 | 10.0 | 0.6 J | 0.9 J | 1.0 J | 1.2 J | 1.3 J | 08/27/08 | CMF | EPA200.8 |
| Total Chromium, ug/l | 0.11 | 10.0 | 1.3 J | 0.3 J | --- U | --- U | 1.5 J | 08/27/08 | CMF | EPA200.8 |
| Lead, ug/l | 0.32 | 10.0 | 0.1 J | 2.5 J | 0.3 J | 0.3 J | 0.3 J | 08/27/08 | CMF | EPA200.8 |
| Nickel, ug/l | 0.06 | 50.0 | 2.0 J | 9.6 J | 0.7 J | 7.2 J | 3.7 J | 08/27/08 | CMF | EPA200.8 |
| Selenium, ug/l | 0.51 | 10.0 | 0.5 J | 0.2 J | --- U | 0.3 J | 0.7 J | 08/27/08 | CMF | EPA200.8 |
| Silver, ug/l | 0.04 | 10.0 | 0.1 J | 0.1 J | 0.1 J | --- U | --- U | 08/27/08 | CMF | EPA200.8 |
| Thallium, ug/l | 0.63 | 5.0 | 0.1 J | 0.1 J | --- U | --- U | --- U | 08/27/08 | CMF | EPA200.8 |
| Vanadium, ug/l | 0.07 | 25.0 | 0.2 J | 9.5 J | 0.7 J | 0.5 J | 1.0 J | 08/27/08 | CMF | EPA200.8 |
| Zinc, ug/l | 0.04 | 10.0 | 6.1 J | 30 | 12 | 13 | 11 | 08/27/08 | CMF | EPA200.8 |
| Conductivity (at 25c), uMhos | 1.0 | 1.0 | 95 | 165 | 112 | 93 | 165 | 08/25/08 | RJH | SM2510B |
| Temperature, °C | | | 19 | 19 | 17 | 17 | 15 | 08/25/08 | RJH | SM2550B |
| Static Water Level, feet | | | 11.94 | 12.26 | 30.70 | 25.03 | 18.49 | 08/25/08 | RJH | |
| Well Depth, feet | | | 22.54 | 22.55 | 45.63 | 30.21 | 25.65 | 08/25/08 | RJH | |

J = Between MDL and SWSL, U = Below ALL Quanititation Limits.

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PHONE (252) 756-6208
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ID#: 6020

DOMTAR PAPER CO., LLC
MS. DIANE HARDISON
ENVIRONMENTAL SUPERVISOR
P.O. BOX 787
PLYMOUTH ,NC 27962

DATE COLLECTED: 08/25/08
DATE REPORTED : 09/29/08

REVIEWED BY:

| PARAMETERS | MDL | SWSL | Well #11 | Well #12 | Well #1A | Well #6A | Analysis Date | Analyst | Method Code |
|---|---|---|---|---|---|---|---|---|---|
| PH (field measurement), Units | | | 5.3 | Missing | 6.2 | 7.5 | 08/25/08 | RJH | SM4500HB |
| Sulfate, mg/l | 5.0 | 250.0 | 13.7 J | Missing | 23.2 J | --- U | 08/27/08 | TRB | SM4500-SO4E |
| Antimony, ug/l | 0.44 | 6.0 | --- U | Missing | --- U | --- U | 08/27/08 | CMF | EPA200.8 |
| Arsenic, ug/l | 0.57 | 10.0 | 0.2 J | Missing | 0.1 J | 0.5 J | 08/27/08 | CMF | EPA200.8 |
| Barium, ug/l | 0.11 | 100.0 | 41.4 J | Missing | 62.0 J | 36.5 J | 08/27/08 | CMF | EPA200.8 |
| Beryllium, ug/l | 0.06 | 1.0 | 0.3 J | Missing | 0.1 J | --- U | 08/27/08 | CMF | EPA200.8 |
| Cadmium, ug/l | 0.05 | 1.0 | 0.1 J | Missing | 0.1 J | 0.1 J | 08/27/08 | CMF | EPA200.8 |
| Cobalt, ug/l | 0.03 | 10.0 | 7.0 J | Missing | 0.6 J | 0.1 J | 08/27/08 | CMF | EPA200.8 |
| Copper, ug/l | 0.05 | 10.0 | 1.5 J | Missing | 0.8 J | 0.7 J | 08/27/08 | CMF | EPA200.8 |
| Total Chromium, ug/l | 0.11 | 10.0 | 1.4 J | Missing | --- U | --- U | 08/27/08 | CMF | EPA200.8 |
| Lead, ug/l | 0.32 | 10.0 | 0.7 J | Missing | 0.5 J | 0.2 J | 08/27/08 | CMF | EPA200.8 |
| Nickel, ug/l | 0.06 | 50.0 | 4.1 J | Missing | 2.6 J | 0.9 J | 08/27/08 | CMF | EPA200.8 |
| Selenium, ug/l | 0.51 | 10.0 | 0.4 J | Missing | --- U | 0.3 J | 08/27/08 | CMF | EPA200.8 |
| Silver, ug/l | 0.04 | 10.0 | --- U | Missing | --- U | --- U | 08/27/08 | CMF | EPA200.8 |
| Thallium, ug/l | 0.63 | 5.0 | --- U | Missing | --- U | --- U | 08/27/08 | CMF | EPA200.8 |
| Vanadium, ug/l | 0.07 | 25.0 | 1.9 J | Missing | 0.3 J | 0.4 J | 08/27/08 | CMF | EPA200.8 |
| Zinc, ug/l | 0.04 | 10.0 | 20 | Missing | 28 | 1.8 J | 08/27/08 | CMF | EPA200.8 |
| Conductivity (at 25c), uMhos | 1.0 | 1.0 | 98 | Missing | 139 | 364 | 08/25/08 | RJH | SM2510B |
| Temperature, °C | | | 18 | Missing | 18 | 18 | 08/25/08 | RJH | SM2550B |
| Static Water Level, feet | | | 14.90 | Missing | 29.68 | 11.45 | 08/25/08 | RJH | |
| Well Depth, feet | | | 22.92 | Missing | 47.22 | 52.99 | 08/25/08 | RJH | |
| 8260 (duplicate) | | | | Missing | | | / / | | |

J = Between MDL and SWSL, U = Below ALL Quanititation Limits.

Environment 1, Incorporated

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
FAX (252) 756-0633

Wastewater ID: 10

CLIENT: DOMTAR PAPER CO., LLC
MS. DIANE HARDISON
ENVIRONMENTAL SUPERVISOR
P.O. BOX 787
PLYMOUTH, NC 27962

CLIENT ID: 6020

ANALYST: MAO
DATE COLLECTED: 08/25/08
DATE ANALYZED: 09/04/08
DATE REPORTED: 09/29/08



REVIEWED BY:

## VOLATILE ORGANICS
## EPA METHOD 8260B

| PARAMETERS, ug/l | MDL | SWSL | Well #1 | Well #2 | Well #3 | Well #4 | Well #5 |
|---|---|---|---|---|---|---|---|
| 1. Chloromethane | 0.18 | 1.0 | 0.30 J | 0.20 J | 0.40 J | 0.20 J | 0.20 J |
| 2. Vinyl Chloride | 0.34 | 1.0 | --- U | --- U | --- U | --- U | --- U |
| 3. Bromomethane | 0.26 | 10.0 | --- U | --- U | --- U | --- U | --- U |
| 4. Chloroethane | 0.29 | 10.0 | --- U | --- U | --- U | --- U | --- U |
| 5. Trichlorofluoromethane | 0.13 | 1.0 | --- U | --- U | --- U | --- U | --- U |
| 6. 1,1-Dichloroethene | 0.14 | 5.0 | --- U | --- U | --- U | --- U | --- U |
| 7. Acetone | 1.21 | 100.0 | 4.00 J | 4.00 J | 5.60 J | 4.00 J | 4.80 J |
| 8. Iodomethane | 0.12 | 10.0 | --- U | --- U | --- U | --- U | --- U |
| 9. Carbon Disulfide | 0.14 | 100.0 | --- U | --- U | --- U | --- U | --- U |
| 10. Methylene Chloride | 0.14 | 1.0 | --- U | --- U | --- U | --- U | --- U |
| 11. trans-1,2-Dichloroethene | 0.13 | 5.0 | --- U | --- U | --- U | --- U | --- U |
| 12. 1,1-Dichloroethane | 0.16 | 5.0 | --- U | --- U | --- U | --- U | --- U |
| 13. Vinyl Acetate | 0.20 | 50.0 | --- U | --- U | --- U | --- U | --- U |
| 14. Cis-1,2-Dichloroethene | 0.14 | 5.0 | --- U | --- U | --- U | --- U | --- U |
| 15. 2-Butanone | 0.85 | 100.0 | 2.70 J | 2.40 J | 4.00 J | 2.70 J | 3.20 J |
| 16. Bromochloromethane | 0.11 | 3.0 | --- U | --- U | --- U | --- U | --- U |
| 17. Chloroform | 0.13 | 5.0 | --- U | --- U | --- U | --- U | --- U |
| 18. 1,1,1-Trichloroethane | 0.11 | 1.0 | --- U | --- U | --- U | --- U | --- U |
| 19. Carbon Tetrachloride | 0.13 | 1.0 | --- U | --- U | --- U | --- U | --- U |
| 20. Benzene | 0.16 | 1.0 | --- U | --- U | --- U | --- U | --- U |
| 21. 1,2-Dichloroethane | 0.12 | 1.0 | --- U | --- U | --- U | --- U | --- U |
| 22. Trichloroethene | 0.13 | 1.0 | --- U | --- U | --- U | --- U | --- U |
| 23. 1,2-Dichloropropane | 0.17 | 1.0 | --- U | --- U | --- U | --- U | --- U |
| 24. Bromodichloromethane | 0.13 | 1.0 | --- U | --- U | --- U | --- U | --- U |
| 25. Cis-1,3-Dichloropropene | 0.17 | 1.0 | --- U | --- U | --- U | --- U | --- U |
| 26. 4-Methyl-2-Pentanone | 0.68 | 100.0 | --- U | --- U | --- U | --- U | --- U |
| 27. Toluene | 0.13 | 1.0 | --- U | --- U | --- U | --- U | --- U |
| 28. trans-1,3-Dichloropropene | 0.14 | 1.0 | --- U | --- U | --- U | --- U | --- U |
| 29. 1,1,2-Trichloroethane | 0.20 | 1.0 | --- U | --- U | --- U | --- U | --- U |
| 30. Tetrachloroethene | 0.16 | 1.0 | --- U | --- U | --- U | --- U | --- U |
| 31. 2-Hexanone | 1.00 | 50.0 | --- U | --- U | --- U | --- U | --- U |
| 32. Dibromochloromethane | 0.14 | 3.0 | --- U | --- U | --- U | --- U | --- U |
| 33. 1,2-Dibromoethane | 0.13 | 1.0 | --- U | --- U | --- U | --- U | --- U |
| 34. Chlorobenzene | 0.13 | 3.0 | --- U | --- U | --- U | --- U | --- U |
| 35. 1,1,1,2-Tetrachloroethane | 0.14 | 5.0 | --- U | --- U | --- U | --- U | --- U |
| 36. Ethylbenzene | 0.16 | 1.0 | --- U | --- U | --- U | --- U | --- U |
| 37. Xylenes | 0.48 | 5.0 | --- U | --- U | --- U | --- U | --- U |
| 38. Dibromomethane | 0.17 | 10.0 | --- U | --- U | --- U | --- U | --- U |
| 39. Styrene | 0.16 | 1.0 | --- U | --- U | --- U | --- U | --- U |
| 40. Bromoform | 0.11 | 3.0 | --- U | --- U | --- U | --- U | --- U |
| 41. 1,1,2,2-Tetrachloroethane | 0.16 | 3.0 | --- U | --- U | --- U | --- U | --- U |
| 42. 1,2,3-Trichloropropane | 0.06 | 1.0 | --- U | --- U | --- U | --- U | --- U |
| 43. 1,4-Dichlorobenzene | 0.21 | 1.0 | --- U | --- U | --- U | --- U | --- U |
| 44. 1,2-Dichlorobenzene | 0.13 | 5.0 | --- U | --- U | --- U | --- U | --- U |
| 45. 1,2-Dibromo-3-Chloropropane | 0.26 | 13.0 | --- U | --- U | --- U | --- U | --- U |
| 46. Acrylonitrile | 1.49 | 200.0 | --- U | --- U | --- U | --- U | --- U |
| 47. trans-1,4-Dichloro-2-Butene | 0.14 | 100.0 | --- U | --- U | --- U | --- U | --- U |

J = Between MDL and SWSL, U = Below ALL Quanititation Limits.

Environment 1, Incorporated

Wastewater ID: 10

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
FAX (252) 756-0633

CLIENT: DOMTAR PAPER CO., LLC
MS. DIANE HARDISON
ENVIRONMENTAL SUPERVISOR
P.O. BOX 787
PLYMOUTH, NC 27962

CLIENT ID: 6020

ANALYST: MAO
DATE COLLECTED: 08/25/08
DATE ANALYZED: 09/04/08
DATE REPORTED: 09/29/08



REVIEWED BY:

## VOLATILE ORGANICS
## EPA METHOD 8260B

| PARAMETERS, ug/l | MDL | SWSL | Well #6 | Well #7 | Well #8 | Well #9 | Well #10 |
|---|---|---|---|---|---|---|---|
| 1. Chloromethane | 0.18 | 1.0 | 0.30 J | 0.30 J | 0.20 J | 0.20 J | 0.20 J |
| 2. Vinyl Chloride | 0.34 | 1.0 | --- U | --- U | --- U | --- U | --- U |
| 3. Bromomethane | 0.26 | 10.0 | --- U | --- U | --- U | --- U | --- U |
| 4. Chloroethane | 0.29 | 10.0 | --- U | --- U | --- U | --- U | --- U |
| 5. Trichlorofluoromethane | 0.13 | 1.0 | --- U | --- U | --- U | --- U | --- U |
| 6. 1,1-Dichloroethene | 0.14 | 5.0 | --- U | --- U | --- U | --- U | --- U |
| 7. Acetone | 1.21 | 100.0 | 5.00 J | 4.80 J | 3.90 J | 4.70 J | 4.70 J |
| 8. Iodomethane | 0.12 | 10.0 | --- U | --- U | --- U | --- U | --- U |
| 9. Carbon Disulfide | 0.14 | 100.0 | --- U | --- U | --- U | --- U | --- U |
| 10. Methylene Chloride | 0.14 | 1.0 | --- U | --- U | --- U | --- U | --- U |
| 11. trans-1,2-Dichloroethene | 0.13 | 5.0 | --- U | --- U | --- U | --- U | --- U |
| 12. 1,1-Dichloroethane | 0.16 | 5.0 | --- U | --- U | --- U | --- U | --- U |
| 13. Vinyl Acetate | 0.20 | 50.0 | --- U | --- U | --- U | --- U | --- U |
| 14. Cis-1,2-Dichloroethene | 0.14 | 5.0 | --- U | --- U | --- U | --- U | --- U |
| 15. 2-Butanone | 0.85 | 100.0 | 3.50 J | 3.20 J | 2.60 J | 3.50 J | 3.00 J |
| 16. Bromochloromethane | 0.11 | 3.0 | --- U | --- U | --- U | --- U | --- U |
| 17. Chloroform | 0.13 | 5.0 | --- U | --- U | --- U | --- U | --- U |
| 18. 1,1,1-Trichloroethane | 0.11 | 1.0 | --- U | --- U | --- U | --- U | --- U |
| 19. Carbon Tetrachloride | 0.13 | 1.0 | --- U | --- U | --- U | --- U | --- U |
| 20. Benzene | 0.16 | 1.0 | --- U | --- U | --- U | --- U | --- U |
| 21. 1,2-Dichloroethane | 0.12 | 1.0 | --- U | --- U | --- U | --- U | --- U |
| 22. Trichloroethene | 0.13 | 1.0 | --- U | --- U | --- U | --- U | --- U |
| 23. 1,2-Dichloropropane | 0.17 | 1.0 | --- U | --- U | --- U | --- U | --- U |
| 24. Bromodichloromethane | 0.13 | 1.0 | --- U | --- U | --- U | --- U | --- U |
| 25. Cis-1,3-Dichloropropene | 0.17 | 1.0 | --- U | --- U | --- U | --- U | --- U |
| 26. 4-Methyl-2-Pentanone | 0.68 | 100.0 | --- U | --- U | --- U | --- U | --- U |
| 27. Toluene | 0.13 | 1.0 | --- U | --- U | --- U | --- U | --- U |
| 28. trans-1,3-Dichloropropene | 0.14 | 1.0 | --- U | --- U | --- U | --- U | --- U |
| 29. 1,1,2-Trichloroethane | 0.20 | 1.0 | --- U | --- U | --- U | --- U | --- U |
| 30. Tetrachloroethene | 0.16 | 1.0 | --- U | --- U | --- U | --- U | --- U |
| 31. 2-Hexanone | 1.00 | 50.0 | --- U | --- U | --- U | --- U | --- U |
| 32. Dibromochloromethane | 0.14 | 3.0 | --- U | --- U | --- U | --- U | --- U |
| 33. 1,2-Dibromoethane | 0.13 | 1.0 | --- U | --- U | --- U | --- U | --- U |
| 34. Chlorobenzene | 0.13 | 3.0 | --- U | --- U | --- U | --- U | --- U |
| 35. 1,1,1,2-Tetrachloroethane | 0.14 | 5.0 | --- U | --- U | --- U | --- U | --- U |
| 36. Ethylbenzene | 0.16 | 1.0 | --- U | --- U | --- U | --- U | --- U |
| 37. Xylenes | 0.48 | 5.0 | --- U | --- U | --- U | --- U | --- U |
| 38. Dibromomethane | 0.17 | 10.0 | --- U | --- U | --- U | --- U | --- U |
| 39. Styrene | 0.16 | 1.0 | --- U | --- U | --- U | --- U | --- U |
| 40. Bromoform | 0.11 | 3.0 | --- U | --- U | --- U | --- U | --- U |
| 41. 1,1,2,2-Tetrachloroethane | 0.16 | 3.0 | --- U | --- U | --- U | --- U | --- U |
| 42. 1,2,3-Trichloropropane | 0.06 | 1.0 | --- U | --- U | --- U | --- U | --- U |
| 43. 1,4-Dichlorobenzene | 0.21 | 1.0 | --- U | --- U | --- U | --- U | --- U |
| 44. 1,2-Dichlorobenzene | 0.13 | 5.0 | --- U | --- U | --- U | --- U | --- U |
| 45. 1,2-Dibromo-3-Chloropropane | 0.26 | 13.0 | --- U | --- U | --- U | --- U | --- U |
| 46. Acrylonitrile | 1.49 | 200.0 | --- U | --- U | --- U | --- U | --- U |
| 47. trans-1,4-Dichloro-2-Butene | 0.14 | 100.0 | --- U | --- U | --- U | --- U | --- U |

J = Between MDL and SWSL, U = Below ALL Quanititation Limits.

Environment 1, Incorporated

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
FAX (252) 756-0633

Wastewater ID: 10

CLIENT: DOMTAR PAPER CO., LLC
MS. DIANE HARDISON
ENVIRONMENTAL SUPERVISOR
P.O. BOX 787
PLYMOUTH, NC 27962

CLIENT ID: 6020

ANALYST: MAO
DATE COLLECTED: 08/25/08
DATE ANALYZED: 09/04/08
DATE REPORTED: 09/29/08



REVIEWED BY:

## VOLATILE ORGANICS
## EPA METHOD 8260B

| PARAMETERS, ug/l | MDL | SWSL | Well #11 | Well #1A | Well #6A |
|---|---|---|---|---|---|
| 1. Chloromethane | 0.18 | 1.0 | 0.60 J | --- U | 0.30 J |
| 2. Vinyl Chloride | 0.34 | 1.0 | --- U | --- U | --- U |
| 3. Bromomethane | 0.26 | 10.0 | --- U | --- U | --- U |
| 4. Chloroethane | 0.29 | 10.0 | --- U | --- U | --- U |
| 5. Trichlorofluoromethane | 0.13 | 1.0 | --- U | --- U | --- U |
| 6. 1,1-Dichloroethene | 0.14 | 5.0 | --- U | --- U | --- U |
| 7. Acetone | 1.21 | 100.0 | 4.50 J | 4.80 J | 5.10 J |
| 8. Iodomethane | 0.12 | 10.0 | --- U | --- U | --- U |
| 9. Carbon Disulfide | 0.14 | 100.0 | --- U | --- U | --- U |
| 10. Methylene Chloride | 0.14 | 1.0 | --- U | --- U | --- U |
| 11. trans-1,2-Dichloroethene | 0.13 | 5.0 | --- U | --- U | --- U |
| 12. 1,1-Dichloroethane | 0.16 | 5.0 | --- U | --- U | --- U |
| 13. Vinyl Acetate | 0.20 | 50.0 | --- U | --- U | --- U |
| 14. Cis-1,2-Dichloroethene | 0.14 | 5.0 | --- U | --- U | --- U |
| 15. 2-Butanone | 0.85 | 100.0 | 3.10 J | 3.40 J | 4.00 J |
| 16. Bromochloromethane | 0.11 | 3.0 | --- U | --- U | --- U |
| 17. Chloroform | 0.13 | 5.0 | 0.40 J | --- U | --- U |
| 18. 1,1,1-Trichloroethane | 0.11 | 1.0 | --- U | --- U | --- U |
| 19. Carbon Tetrachloride | 0.13 | 1.0 | --- U | --- U | --- U |
| 20. Benzene | 0.16 | 1.0 | --- U | --- U | --- U |
| 21. 1,2-Dichloroethane | 0.12 | 1.0 | --- U | --- U | --- U |
| 22. Trichloroethene | 0.13 | 1.0 | --- U | --- U | --- U |
| 23. 1,2-Dichloropropane | 0.17 | 1.0 | --- U | --- U | --- U |
| 24. Bromodichloromethane | 0.13 | 1.0 | --- U | --- U | --- U |
| 25. Cis-1,3-Dichloropropene | 0.17 | 1.0 | --- U | --- U | --- U |
| 26. 4-Methyl-2-Pentanone | 0.68 | 100.0 | --- U | --- U | --- U |
| 27. Toluene | 0.13 | 1.0 | --- U | --- U | --- U |
| 28. trans-1,3-Dichloropropene | 0.14 | 1.0 | --- U | --- U | --- U |
| 29. 1,1,2-Trichloroethane | 0.20 | 1.0 | --- U | --- U | --- U |
| 30. Tetrachloroethene | 0.16 | 1.0 | --- U | --- U | --- U |
| 31. 2-Hexanone | 1.00 | 50.0 | --- U | --- U | --- U |
| 32. Dibromochloromethane | 0.14 | 3.0 | --- U | --- U | --- U |
| 33. 1,2-Dibromoethane | 0.13 | 1.0 | --- U | --- U | --- U |
| 34. Chlorobenzene | 0.13 | 3.0 | --- U | --- U | --- U |
| 35. 1,1,1,2-Tetrachloroethane | 0.14 | 5.0 | --- U | --- U | --- U |
| 36. Ethylbenzene | 0.16 | 1.0 | --- U | --- U | --- U |
| 37. Xylenes | 0.48 | 5.0 | --- U | --- U | --- U |
| 38. Dibromomethane | 0.17 | 10.0 | --- U | --- U | --- U |
| 39. Styrene | 0.16 | 1.0 | --- U | --- U | --- U |
| 40. Bromoform | 0.11 | 3.0 | --- U | --- U | --- U |
| 41. 1,1,2,2-Tetrachloroethane | 0.16 | 3.0 | --- U | --- U | --- U |
| 42. 1,2,3-Trichloropropane | 0.06 | 1.0 | --- U | --- U | --- U |
| 43. 1,4-Dichlorobenzene | 0.21 | 1.0 | --- U | --- U | --- U |
| 44. 1,2-Dichlorobenzene | 0.13 | 5.0 | --- U | --- U | --- U |
| 45. 1,2-Dibromo-3-Chloropropane | 0.26 | 13.0 | --- U | --- U | --- U |
| 46. Acrylonitrile | 1.49 | 200.0 | --- U | --- U | --- U |
| 47. trans-1,4-Dichloro-2-Butene | 0.14 | 100.0 | --- U | --- U | --- U |

J = Between MDL and SWSL, U = Below ALL Quanititation Limits.

Environment 1, Incorporated

Wastewater ID: 10

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
FAX (252) 756-0633

ID#: 6020 A

DOMTAR PAPER CO., LLC
MS. DIANE HARDISON
ENVIRONMENTAL SUPERVISOR
P.O. BOX 787
PLYMOUTH ,NC 27962

DATE COLLECTED: 08/25/08
DATE REPORTED : 09/16/08

REVIEWED BY:

| PARAMETERS | MDL | SWSL | Upstream | Downstream | Well #13 | Leachate | Analysis Date | Analyst | Method Code |
|---|---|---|---|---|---|---|---|---|---|
| PH (field measurement), Units | | | 6.8 | 7.6 | 4.8 | 7.0 | 08/25/08 | RJH | SM4500HB |
| Sulfate, mg/l | 5.0 | 250.0 | --- U | --- U | 34.2 J | 78.4 J | 08/27/08 | TRB | SM4500-SO4E |
| Antimony, ug/l | 0.44 | 6.0 | --- U | --- U | --- U | 3.1 J | 08/27/08 | CMF | EPA200.8 |
| Arsenic, ug/l | 0.57 | 10.0 | 0.4 J | 0.5 J | 0.6 J | | 08/27/08 | CMF | EPA200.8 |
| Arsenic, ug/l | 0.57 | 10.0 | | | | 77 | 09/03/08 | CMF | SM3113B |
| Barium, ug/l | 0.11 | 100.0 | 49.8 J | 53.0 J | 87.6 J | 264 | 08/27/08 | CMF | EPA200.8 |
| Beryllium, ug/l | 0.06 | 1.0 | --- U | --- U | 0.7 J | 0.3 J | 08/27/08 | CMF | EPA200.8 |
| Cadmium, ug/l | 0.05 | 1.0 | --- U | --- U | 0.2 J | 24 | 08/27/08 | CMF | EPA200.8 |
| Cobalt, ug/l | 0.03 | 10.0 | 0.2 J | 0.1 J | 5.7 J | 6.8 J | 08/27/08 | CMF | EPA200.8 |
| Copper, ug/l | 0.05 | 10.0 | 0.3 J | 1.6 J | 2.8 J | 342 | 08/27/08 | CMF | EPA200.8 |
| Total Chromium, ug/l | 0.11 | 10.0 | --- U | 0.3 J | 3.4 J | 119 | 08/27/08 | CMF | EPA200.8 |
| Lead, ug/l | 0.32 | 10.0 | 0.1 J | 0.2 J | 2.8 J | 15 | 08/27/08 | CMF | EPA200.8 |
| Nickel, ug/l | 0.06 | 50.0 | 0.6 J | 0.9 J | 6.3 J | 220 | 08/27/08 | CMF | EPA200.8 |
| Selenium, ug/l | 0.51 | 10.0 | 0.2 J | 0.3 J | 0.3 J | | 08/27/08 | CMF | EPA200.8 |
| Selenium, ug/l | 0.51 | 10.0 | | | | 1.4 J | 09/05/08 | CMF | SM3113B |
| Silver, ug/l | 0.04 | 10.0 | --- U | --- U | --- U | 5.6 J | 08/27/08 | CMF | EPA200.8 |
| Thallium, ug/l | 0.63 | 5.0 | --- U | --- U | 0.1 J | --- U | 08/27/08 | CMF | EPA200.8 |
| Vanadium, ug/l | 0.07 | 25.0 | 0.5 J | 0.5 J | 5.4 J | 719 | 08/27/08 | CMF | EPA200.8 |
| Zinc, ug/l | 0.04 | 10.0 | 3.8 J | 9.2 J | 18 | 3098 | 08/27/08 | CMF | EPA200.8 |
| Conductivity (at 25c), uMhos | 1.0 | 1.0 | 240 | 255 | 134 | 10074 | 08/25/08 | RJH | SM2510B |
| Temperature, °C | | | 23 | 25 | 18 | 31 | 08/25/08 | RJH | SM2550B |
| Static Water Level, feet | | | | | 14.66 | | 08/25/08 | RJH | |
| Well Depth, feet | | | | | 17.47 | | 08/25/08 | RJH | |

J = Between MDL and SWSL, U = Below ALL Quanititation Limits.

Environment 1, Incorporated

Wastewater ID: 10

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
FAX (252) 756-0633

CLIENT: DOMTAR PAPER CO., LLC
MS. DIANE HARDISON
ENVIRONMENTAL SUPERVISOR
P.O. BOX 787
PLYMOUTH, NC 27962

CLIENT ID: 6020 A

ANALYST: MAO
DATE COLLECTED: 08/25/08
DATE ANALYZED: 09/04/08
DATE REPORTED: 09/16/08



REVIEWED BY:

## VOLATILE ORGANICS
## EPA METHOD 8260B

| PARAMETERS, ug/l | MDL | SWSL | Upstream | Downstream | Well #13 | Leachate |
|---|---|---|---|---|---|---|
| 1. Chloromethane | 0.18 | 1.0 | --- U | 0.40 J | 0.30 J | 2.40 |
| 2. Vinyl Chloride | 0.34 | 1.0 | --- U | --- U | --- U | --- U |
| 3. Bromomethane | 0.26 | 10.0 | --- U | --- U | --- U | --- U |
| 4. Chloroethane | 0.29 | 10.0 | --- U | --- U | --- U | --- U |
| 5. Trichlorofluoromethane | 0.13 | 1.0 | --- U | --- U | --- U | --- U |
| 6. 1,1-Dichloroethene | 0.14 | 5.0 | --- U | --- U | --- U | --- U |
| 7. Acetone | 1.21 | 100.0 | 5.40 J | 7.10 J | 4.50 J | 26.50 J |
| 8. Iodomethane | 0.12 | 10.0 | --- U | --- U | --- U | --- U |
| 9. Carbon Disulfide | 0.14 | 100.0 | --- U | --- U | --- U | --- U |
| 10. Methylene Chloride | 0.14 | 1.0 | --- U | --- U | --- U | --- U |
| 11. trans-1,2-Dichloroethene | 0.13 | 5.0 | --- U | --- U | --- U | --- U |
| 12. 1,1-Dichloroethane | 0.16 | 5.0 | --- U | --- U | --- U | --- U |
| 13. Vinyl Acetate | 0.20 | 50.0 | --- U | --- U | --- U | --- U |
| 14. Cis-1,2-Dichloroethene | 0.14 | 5.0 | --- U | --- U | --- U | --- U |
| 15. 2-Butanone | 0.85 | 100.0 | 3.00 J | 4.10 J | 3.10 J | 11.90 J |
| 16. Bromochloromethane | 0.11 | 3.0 | --- U | --- U | --- U | --- U |
| 17. Chloroform | 0.13 | 5.0 | --- U | --- U | --- U | --- U |
| 18. 1,1,1-Trichloroethane | 0.11 | 1.0 | --- U | --- U | --- U | --- U |
| 19. Carbon Tetrachloride | 0.13 | 1.0 | --- U | --- U | --- U | --- U |
| 20. Benzene | 0.16 | 1.0 | --- U | --- U | --- U | --- U |
| 21. 1,2-Dichloroethane | 0.12 | 1.0 | --- U | --- U | --- U | --- U |
| 22. Trichloroethene | 0.13 | 1.0 | --- U | --- U | --- U | --- U |
| 23. 1,2-Dichloropropane | 0.17 | 1.0 | --- U | --- U | --- U | --- U |
| 24. Bromodichloromethane | 0.13 | 1.0 | --- U | --- U | --- U | --- U |
| 25. Cis-1,3-Dichloropropene | 0.17 | 1.0 | --- U | --- U | --- U | --- U |
| 26. 4-Methyl-2-Pentanone | 0.68 | 100.0 | --- U | --- U | --- U | --- U |
| 27. Toluene | 0.13 | 1.0 | --- U | --- U | --- U | --- U |
| 28. trans-1,3-Dichloropropene | 0.14 | 1.0 | --- U | --- U | --- U | --- U |
| 29. 1,1,2-Trichloroethane | 0.20 | 1.0 | --- U | --- U | --- U | --- U |
| 30. Tetrachloroethene | 0.16 | 1.0 | --- U | --- U | --- U | --- U |
| 31. 2-Hexanone | 1.00 | 50.0 | --- U | --- U | --- U | 1.10 J |
| 32. Dibromochloromethane | 0.14 | 3.0 | --- U | --- U | --- U | --- U |
| 33. 1,2-Dibromoethane | 0.13 | 1.0 | --- U | --- U | --- U | --- U |
| 34. Chlorobenzene | 0.13 | 3.0 | --- U | --- U | --- U | --- U |
| 35. 1,1,1,2-Tetrachloroethane | 0.14 | 5.0 | --- U | --- U | --- U | --- U |
| 36. Ethylbenzene | 0.16 | 1.0 | --- U | --- U | --- U | --- U |
| 37. Xylenes | 0.48 | 5.0 | --- U | --- U | --- U | --- U |
| 38. Dibromomethane | 0.17 | 10.0 | --- U | --- U | --- U | --- U |
| 39. Styrene | 0.16 | 1.0 | --- U | --- U | --- U | --- U |
| 40. Bromoform | 0.11 | 3.0 | --- U | --- U | --- U | --- U |
| 41. 1,1,2,2-Tetrachloroethane | 0.16 | 3.0 | --- U | --- U | --- U | --- U |
| 42. 1,2,3-Trichloropropane | 0.06 | 1.0 | --- U | --- U | --- U | --- U |
| 43. 1,4-Dichlorobenzene | 0.21 | 1.0 | --- U | --- U | --- U | --- U |
| 44. 1,2-Dichlorobenzene | 0.13 | 5.0 | --- U | --- U | --- U | --- U |
| 45. 1,2-Dibromo-3-Chloropropane | 0.26 | 13.0 | --- U | --- U | --- U | --- U |
| 46. Acrylonitrile | 1.49 | 200.0 | --- U | --- U | --- U | --- U |
| 47. trans-1,4-Dichloro-2-Butene | 0.14 | 100.0 | --- U | --- U | --- U | --- U |

J = Between MDL and SWSL, U = Below ALL Quanititation Limits.

**Environment 1, Inc.**
P.O. Box 7085, 114 Oakmont Dr.
Greenville, NC 27858

Phone (252) 756-6208 • Fax (252) 756-0633

# CHAIN OF CUSTODY RECORD



**CLIENT:** 6020 A **Week: 31**

**DOMTAR PAPER CO., LLC**
**MS. DIANE HARDISON**
**ENVIRONMENTAL SUPERVISOR**
**P.O. BOX 787**
**PLYMOUTH NC 27962**

**(252) 793-8611**

DISINFECTION
- ☐ CHLORINE
- ☐ UV
- ☐ NONE
- ☐ _____

| SAMPLE LOCATION | COLLECTION DATE | COLLECTION TIME | TOTAL CHLORINE, mg/l AT COLLECTION | TEMPERATURE, °C AT COLLECTION | # OF CONTAINERS | Field pH | Sulfate | Metals | Conductivity | Temperature | Field Parameter | EPA 8260B | 8260 Dup. 1 | 8260 Dup. 2 | 8260 Dup. 3 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | P | P | P | P | P | | G | G | G | G |
| | | | | | | A | A | A | A | A | | E | E | E | E |
| **Upstream** | 08250 | 8 | | | 7 | ☒ | ☒ | ☒ | ☒ | ☒ | | ☒ | ☒ | ☒ | ☒ |
| **Downstream** | 08250 | 8 | | | 5 | ☒ | ☒ | ☒ | ☒ | ☒ | | ☒ | ☒ | | |
| **Well #13** | 08250 | 8 | | | 5 | ☒ | ☒ | ☒ | ☒ | ☒ | ☒ | ☒ | ☒ | | |
| **Leachate** | 08250 | 8 | | | 5 | ☒ | ☒ | ☒ | ☒ | ☒ | | ☒ | ☒ | | |

CHLORINE NEUTRALIZED AT COLLECTION

pH CHECK (LAB)

CONTAINER TYPE, P/G

CHEMICAL PRESERVATION

PARAMETERS

A - NONE D - NAOH
B - $HNO_3$ E - HCL
C - $H_2SO_4$ F - ZINC ACETATE
G - NA THIOSULFATE

CLASSIFICATION:
- ☐ WASTEWATER (NPDES)
- ☐ DRINKING WATER
- ☐ DWQ/GW
- ☒ SOLID WASTE SECTION

CHAIN OF CUSTODY MAINTAINED DURING SHIPMENT/DELIVERY
Y N

SAMPLES COLLECTED BY:
(Please Print)
R Neal Fox

SAMPLES RECEIVED IN LAB AT 1.2 °C

| RELINQUISHED BY (SIG.) (SAMPLER) | DATE/TIME | RECEIVED BY (SIG.) | DATE/TIME |
|---|---|---|---|
| R Neal Fox | 08250 8 2:48 | | 8/25 2:48 |
| RELINQUISHED BY (SIG.) | DATE/TIME | RECEIVED BY (SIG.) | DATE/TIME |
| RELINQUISHED BY (SIG.) | DATE/TIME | RECEIVED BY (SIG.) | DATE/TIME |

COMMENTS:

Instructions for completing this form are on the reverse side.

Sampler must place a "C" for composite sample or a "G" for Grab sample in the blocks above for each parameter requested.

№ 169540

FORM #5

Environment 1, Inc.
P.O. Box 7085, 114 Oakmont Dr.
Greenville, NC 27858

Phone (252) 756-6208 • Fax (252) 756-0633

# CHAIN OF CUSTODY RECORD



**CLIENT:** 6020 **Week:** 31

**DOMTAR PAPER CO., LLC**
**MS. DIANE HARDISON**
**ENVIRONMENTAL SUPERVISOR**
**P.O. BOX 787**
**PLYMOUTH NC 27962**

**(252) 793-8611**

DISINFECTION
- ☐ CHLORINE
- ☐ UV
- ☐ NONE
- ☐ _____

CHLORINE NEUTRALIZED AT COLLECTION

pH CHECK (LAB)

CONTAINER TYPE, P/G

CHEMICAL PRESERVATION

PARAMETERS

A - NONE D - NAOH
B - $HNO_3$ E - HCL
C - $H_2SO_4$ F - ZINC ACETATE
G - NA THIOSULFATE

| SAMPLE LOCATION | COLLECTION DATE | COLLECTION TIME | TOTAL CHLORINE, mg/l AT COLLECTION | TEMPERATURE, °C AT COLLECTION | # OF CONTAINERS | Field pH | Sulfate | Metals | Conductivity | Temperature | Field Parameter | EPA 8260B | 8260 Dup. 1 | 8260 Dup. 2 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | P A | P A | P A | P A | P A | | G E | G E | G E |
| | | | | | | | | 12 | | | | 12 | 12 | 12 |
| Well #1 | 08 25 08 | 1015 | | 20 | 6 | X | X | X | X | X | X | X | X | X |
| Well #2 | 08 25 08 | 0859 | | 20 | 5 | X | X | X | X | X | X | X | X | |
| Well #3 | 08 25 08 | 0913 | | 21 | 5 | X | X | X | X | X | X | X | X | |
| Well #4 | 08 25 08 | 0930 | | 19 | 5 | X | X | X | X | X | X | X | X | |
| Well #5 | 08 25 08 | 0845 | | 19 | 5 | X | X | X | X | X | X | X | X | |
| Well #6 | 08 25 08 | 0851 | | 19 | 5 | X | X | X | X | X | X | X | X | |
| Well #7 | 08 25 08 | 1040 | | 19 | 5 | X | X | X | X | X | X | X | X | |
| Well #8 | 08 25 08 | 1056 | | 17 | 5 | X | X | X | X | X | X | X | X | |
| Well #9 | 08 25 08 | 1115 | | 17 | 5 | X | X | X | X | X | X | X | X | |
| Well #10 | 08 25 08 | 1131 | | 15 | 5 | X | X | X | X | X | X | X | X | |
| Well #11 | 08 25 08 | 1150 | | 18 | 5 | X | X | X | X | X | X | X | X | |

CLASSIFICATION:
- ☐ WASTEWATER (NPDES)
- ☐ DRINKING WATER
- ☐ DWQ/GW
- ☒ SOLID WASTE SECTION

CHAIN OF CUSTODY MAINTAINED DURING SHIPMENT/DELIVERY
(Y) N

SAMPLES COLLECTED BY:
(Please Print)
Bob Hodge / Foc

SAMPLES RECEIVED IN LAB AT 1.2 °C

| RELINQUISHED BY (SIG.) (SAMPLER) | DATE/TIME | RECEIVED BY (SIG.) | DATE/TIME |
|---|---|---|---|
| Bob Hodge 08 25 08 | 2:48 | | 8/25 18:48 |
| RELINQUISHED BY (SIG.) | DATE/TIME | RECEIVED BY (SIG.) | DATE/TIME |
| | | | |
| RELINQUISHED BY (SIG.) | DATE/TIME | RECEIVED BY (SIG.) | DATE/TIME |
| | | | |

COMMENTS:

Instructions for completing this form are on the reverse side.

Sampler must place a "C" for composite sample or a "G" for Grab sample in the blocks above for each parameter requested.

№ 169542

FORM #5

**Environment 1, Inc.**
P.O. Box 7085, 114 Oakmont Dr.
Greenville, NC 27858

Phone (252) 756-6208 • Fax (252) 756-0633

# CHAIN OF CUSTODY RECORD



**CLIENT:** 6020 **Week:** 31

**DOMTAR PAPER CO., LLC**
**MS. DIANE HARDISON**
**ENVIRONMENTAL SUPERVISOR**
**P.O. BOX 787**
**PLYMOUTH NC 27962**

**(252) 793-8611**

DISINFECTION
- ☐ CHLORINE
- ☐ UV
- ☐ NONE
- ☐ _____

CHLORINE NEUTRALIZED AT COLLECTION

pH CHECK (LAB)

CONTAINER TYPE, P/G

CHEMICAL PRESERVATION

PARAMETERS

A - NONE D - NAOH
B - $HNO_3$ E - HCL
C - $H_2SO_4$ F - ZINC ACETATE
G - NA THIOSULFATE

| SAMPLE LOCATION | COLLECTION DATE | COLLECTION TIME | TOTAL CHLORINE, mg/l AT COLLECTION | TEMPERATURE, °C AT COLLECTION | # OF CONTAINERS | Field pH | Sulfate | Metals | Conductivity | Temperature | Field Parameter | EPA 8260B | 8260 Dup. 1 | 8260 Dup. 2 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | P | P | P | P | P | | G | G | G |
| | | | | | | A | A | A | A | A | | E | E | E |
| Well #12 | | | | | 5 | | | | | | | | | |
| Well #1A | 082508 | 1026 | | 18 | 5 | | | | | | | | | |
| Well #6A | 082508 | 0819 | | 18 | 6 | | | | | | | | | |

CLASSIFICATION:
- ☐ WASTEWATER (NPDES)
- ☐ DRINKING WATER
- ☐ DWQ/GW
- ☒ SOLID WASTE SECTION

CHAIN OF CUSTODY MAINTAINED DURING SHIPMENT/DELIVERY
Y N

SAMPLES COLLECTED BY:
(Please Print)
Bob Hoar FOR

SAMPLES RECEIVED IN LAB AT 1.2 °C

| RELINQUISHED BY (SIG.) (SAMPLER) | DATE/TIME | RECEIVED BY (SIG.) | DATE/TIME |
|---|---|---|---|
| Bob Hoar | 082508 2:45 | | 8/25 2:45 |
| RELINQUISHED BY (SIG.) | DATE/TIME | RECEIVED BY (SIG.) | DATE/TIME |
| RELINQUISHED BY (SIG.) | DATE/TIME | RECEIVED BY (SIG.) | DATE/TIME |

COMMENTS:
WELL 12 MISSING
DUE TO WATER SHORTAGE

Instructions for completing this form are on the reverse side.

Sampler must place a "C" for composite sample or a "G" for Grab sample in the blocks above for each parameter requested.

№ 169541

FORM #5

# Environment 1, Inc.

| Sampled By ☑ Bob Hilgoe ☑ Bobby Fox Other: | Facility Plymouth N.C. | Site ID 6220 |
|---|---|---|
| | Project No. | Date (m/d/y) 08 25 08 |

**Site Description** X Monitoring Well ☐ Extraction Well ☐ Irrigation Well ☐ Spring ☐ Borehole ☐ Probe Other:

| | |
|---|---|
| Air Temp: 72 ☐ °C ☑ °F | Weather: CLEAR |
| Well Locked? ☑ yes ☐ no | Damaged/Repairs Needed: |
| x TOC Description: | |
| TOC Stickup: 1.98 ft. above/below ground | Well Inside Diameter (ID): x 2-inch ☐ 4-inch Other: |
| Site Remarks (nearby wells pumping, tide, stream stage, etc.) | |

**Water Level Data** Measurement Units: ft. Well or Borehole Total Depth (TD) from TOC: 22.48

| x E-Tape, # 2 ☐ Steel Tape ☐ Other | Pre-Purge Initial | Pre-Purge Confirmation | Purging Start | During Purging | Purging End | After Sampling | Remarks |
|---|---|---|---|---|---|---|---|
| Time (hh:mm; 24-hr clock) | 0954 | 0954 | 0954 | 1006 | 1011 | 1015 | |
| Depth to Water | 11.71 | 11.71 | 11.71 | 11.84 | 11.92 | 11.88 | |
| Tape Correction | | | | | | | |
| Water Level (WL) | 11.71 | 11.71 | 11.71 | 11.84 | 11.92 | 11.88 | |
| Product Thickness | | | | | | | |
| Product Recovery ☐ gallons ☐ liters | | | | | | | |

Measure water level from fixed measuring point (MP) or top of well casing (TOC). Record water depth to nearest 0.01 ft or 0.002 m, with minus (-) sign if level is above MP or TOC. If no mark on MP or TOC, measure water level from north side of casing. Measure static or pre-purging water level twice; record initial and confirmation measurements and measurement times (in 24-hour clock format). MP/TOC Stickup measurement is from ground surface to nearest 0.1 ft or 0.01 m. Depth to Water codes: N - not measured; D - dry; O - obstructed; P - pumping; F - flowing (artesian well); R - recently pumped; C - cascading. Water Level (WL) = Depth to Water - Tape Correction factor. Record free product presence at time of water level measurement; use "S" for free product thickness if sheen observed. If free product removed from well, record volume removed in gallons or liters, list product type in "Remarks" column.

**Field WQ Data** Purge Depth: 11.71 ☐ Grab ☐ Bailer X Pump Description:

Casing Volume: [22.48 (TD) - _____ (WL)] • [_____ (Well ID)]$^2$ • [_____ (Conversion Factor)] = 1.76 gals

Well Goes Dry While Purging ☐

Conversion Factor = 0.0408 for feet and gallons; 0.1544 for feet and liters; 0.5066 for meters and liters; Well ID in inches

| ☐ Cum. Vol. Purged ☐ Pumping Rate | 1.76 | 3.52 | 5.28 | | | (Final) | Meter Type | Remarks |
|---|---|---|---|---|---|---|---|---|
| Time (hh:mm; 24-hr clock) | 1004 | 1006 | 1011 | | | | | |
| pH (Temperature Corrected? ☐) | 5.4 | 5.1 | 4.9 | | | | OAKTON | 4.0/7.0/10.0 Buffers |
| Temperature, °C | 20 | 20 | 20 | | | | | |
| Dissolved Oxygen mg/L | | | | | | | | |
| S Conductivity µS/cm | 473 | 466 | 467 | | | | OAKTON | 1413 498 |
| Turbidity ☐ NTU | | | | | | | | |
| Color/Tint | NO | NO | NO | | | | | |
| Odor | NO | NO | NO | | | | | |
| | | | | | | | | |

Record time purging starts and ends in "Purging Start" and "Purging End" columns in Water Level Data section. Cum. Vol. Purged: cumulative volume removed before sampling, in gallons or liters. Pumping Rate is gpm or Lpm, depending on box checked in casing volume calculation. Use "Final" column above for recording sample field measurements, total volume purged before sampling or average pumping rate during purging. Record equipment calibration methods, decontamination procedures, equipment failures, purge water disposal method, etc. in daily field notes. SC: Specific Conductance corrected for temperature (µS/cm at 25°C); EC: Electrical Conductivity not corrected for temperature (µS/cm). µS/cm = µmho/cm. 1 gallon (US) = 3.785 L = 0.833 Imperial gallon

**Sample Data** Sample Depth: 11.88 ☐ Grab ☐ Bailer X Pump Description:

| Field Sample ID (unique ID on bottles) | Result Code | Date (m/d/y) | Time (hh:mm) | Bottles (total to lab) | Filtered (0.45 µm) | Lab ID | Case ID | SDG ID | Remarks |
|---|---|---|---|---|---|---|---|---|---|
| W.1 | | 082508 | 1015 | 6 | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |

Sample ID may be up to 15 characters. Sample Result Code, Date, and Time must be entered. Result Codes: P0, Primary Sample; D#, Duplicate Sample; S#, Split Sample (sent to second lab); BF#, Field Blank; BR#, Equipment Rinsate; BT#, Trip Blank; SF#, Field Spike (# = 1 to 9). Lab ID (up to 5 characters) is name of laboratory that will analyze the sample. Case ID (up to 5 characters) and SDG ID (sample delivery group, up to 15 characters) are required for blanks. Case ID may be the lab service request number or yy-mm. SDG may be lab's SDG, a cooler ID number, or mmddyy. Enter sample preservation and handling data on chain-of-custody form. Also record detailed information about duplicate, split, rinsate, spike, and/or blank sample collection/handling in daily field notes.

| Sampler's Name (print) H. Lgoe / Fox | Signature Bob H Ogoe |
|---|---|

# Environment 1, Inc.

| Sampled By ☑ Bob Hilgoe ☑ Bobby Fox Other: | Facility Plymouth N.C. | Site ID 6020 |
|---|---|---|
| | Project No. | Date (m/d/y) 08 25 08 |

**Site Description** X Monitoring Well ☐ Extraction Well ☐ Irrigation Well ☐ Spring ☐ Borehole ☐ Probe Other:

Air Temp: 70 ☐ °C ☑ °F Weather: CLEAR

Well Locked? ☑ yes ☐ no Damaged/Repairs Needed:

x TOC Description:

TOC Stickup: 2.12 ft. above/below ground Well Inside Diameter (ID): x 2-inch ☐ 4-inch Other:

Site Remarks (nearby wells pumping, tide, stream stage, etc.)

**Water Level Data** Measurement Units: ft. Well or Borehole Total Depth (TD) from TOC: 25.81

| x E-Tape, # 2 ☐ Steel Tape ☐ Other | Pre-Purge Initial | Pre-Purge Confirmation | Purging Start | During Purging | Purging End | After Sampling | Remarks |
|---|---|---|---|---|---|---|---|
| Time (hh:mm; 24-hr clock) | 0835 | 0835 | 0840 | 0844 | 0846 | 0859 | |
| Depth to Water | 23.12 | 23.12 | 23.12 | 23.22 | 23.09 | 23.10 | |
| Tape Correction | | | | | | | |
| Water Level (WL) | 23.12 | 23.12 | 23.12 | 23.22 | 23.09 | 23.10 | |
| Product Thickness | | | | | | | |
| Product Recovery ☐ gallons ☐ liters | | | | | | | |

Measure water level from fixed measuring point (MP) or top of well casing (TOC). Record water depth to nearest 0.01 ft or 0.002 m, with minus (-) sign if level is above MP or TOC. If no mark on MP or TOC, measure water level from north side of casing. Measure static or pre-purging water level twice; record initial and confirmation measurements and measurement times (in 24-hour clock format). MP/TOC Stickup measurement is from ground surface to nearest 0.1 ft or 0.01 m. Depth to Water codes: N - not measured; D - dry; O - obstructed; P - pumping; F - flowing (artesian well); R - recently pumped; C - cascading. Water Level (WL) = Depth to Water - Tape Correction factor. Record free product presence at time of water level measurement; use "S" for free product thickness if sheen observed. If free product removed from well, record volume removed in gallons or liters, list product type in "Remarks" column.

**Field WQ Data** Purge Depth: 23.12 ☐ Grab ☐ Bailer X Pump Description:

Casing Volume: [25.81 (TD) - _____ (WL)] • [_____ (Well ID)]$^2$ • [_____ (Conversion Factor)] = 0.44 gals

Well Goes Dry While Purging ☐

Conversion Factor = 0.0408 for feet and gallons; 0.1544 for feet and liters; 0.5066 for meters and liters; Well ID in inches

| | | | | | | (Final) | Meter Type | Remarks |
|---|---|---|---|---|---|---|---|---|
| ☐ Cum. Vol. Purged ☐ Pumping Rate | 0.44 | 0.88 | 1.32 | | | | | |
| Time (hh:mm; 24-hr clock) | 0844 | 0845 | 0846 | | | | | |
| pH (Temperature Corrected? ☐) | 7.49 | 7.48 | 7.5 | | | | OAKTON | 4.0/7.0/10.0 Buffers |
| Temperature, °C | 20 | 20 | 20 | | | | | |
| Dissolved Oxygen mg/L | | | | | | | | |
| S Conductivity µS/cm | 6060 | 5950 | 5970 | | | | OAKTON | 1413 498 |
| Turbidity ☐ NTU | | | | | | | | |
| Color/Tint | NO | NO | NO | | | | | |
| Odor | NO | NO | NO | | | | | |
| | | | | | | | | |

Record time purging starts and ends in "Purging Start" and "Purging End" columns in Water Level Data section. Cum. Vol. Purged: cumulative volume removed before sampling, in gallons or liters. Pumping Rate is gpm or Lpm, depending on box checked in casing volume calculation. Use "Final" column above for recording sample field measurements, total volume purged before sampling or average pumping rate during purging. Record equipment calibration methods, decontamination procedures, equipment failures, purge water disposal method, etc. in daily field notes. SC: Specific Conductance corrected for temperature (µS/cm at 25°C); EC: Electrical Conductivity not corrected for temperature (µS/cm). µS/cm = µmho/cm. 1 gallon (US) = 3.785 L = 0.833 Imperial gallon

**Sample Data** Sample Depth: 23.10 ☐ Grab ☐ Bailer X Pump Description:

| Field Sample ID (unique ID on bottles) | Result Code | Date (m/d/y) | Time (hh:mm) | Bottles (total to lab) | Filtered (0.45 µm) | Lab ID | Case ID | SDG ID | Remarks |
|---|---|---|---|---|---|---|---|---|---|
| W-2 | | 082508 | 0859 | 6 | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |

Sample ID may be up to 15 characters. Sample Result Code, Date, and Time must be entered. Result Codes: P0, Primary Sample; D#, Duplicate Sample; S#, Split Sample (sent to second lab); BF#, Field Blank; BR#, Equipment Rinsate; BT#, Trip Blank; SF#, Field Spike (# = 1 to 9). Lab ID (up to 5 characters) is name of laboratory that will analyze the sample. Case ID (up to 5 characters) and SDG ID (sample delivery group, up to 15 characters) are required for blanks. Case ID may be the lab service request number or yy-mm. SDG may be lab's SDG, a cooler ID number, or mmddyy. Enter sample preservation and handling data on chain-of-custody form. Also record detailed information about duplicate, split, rinsate, spike, and/or blank sample collection/handling in daily field notes.

| Sampler's Name (print) H. LGOE / FOX | Signature Bob H Lgoe |
|---|---|

# Environment 1, Inc.

| Sampled By ☐ ~~Bob~~ Hilgoe ☐ Bobby Fox Other: | Facility Plymouth N.C. | Site ID 6020 |
|---|---|---|
| | Project No. | Date (m/d/y) 08 25 08 |

**Site Description** X Monitoring Well ☐ Extraction Well ☐ Irrigation Well ☐ Spring ☐ Borehole ☐ Probe Other:

| | |
|---|---|
| Air Temp: 70 ☐ °C ☐ °F | Weather: CLEAR |
| Well Locked? ☑ yes ☐ no | Damaged/Repairs Needed: |
| x TOC Description: | |
| TOC Stickup: 1.92 ft. above/below ground | Well Inside Diameter (ID): x 2-inch ☐ 4-inch Other: |
| Site Remarks (nearby wells pumping, tide, stream stage, etc.) | |

**Water Level Data** Measurement Units: ft. Well or Borehole Total Depth (TD) from TOC: 25.01

| x E-Tape, # 2 ☐ Steel Tape ☐ Other | Pre-Purge Initial | Pre-Purge Confirmation | Purging Start | During Purging | Purging End | After Sampling | Remarks |
|---|---|---|---|---|---|---|---|
| Time (hh:mm; 24-hr clock) | 0903 | 0903 | 0903 | 0909 | 0911 | 0915 | |
| Depth to Water | 7.38 | 7.38 | 7.38 | 7.52 | 7.47 | 7.55 | |
| Tape Correction | | | | | | | |
| Water Level (WL) | 7.38 | 7.38 | 7.38 | 7.52 | 7.47 | 7.55 | |
| Product Thickness | | | | | | | |
| Product Recovery ☐ gallons ☐ liters | | | | | | | |

Measure water level from fixed measuring point (MP) or top of well casing (TOC). Record water depth to nearest 0.01 ft or 0.002 m, with minus (-) sign if level is above MP or TOC. If no mark on MP or TOC, measure water level from north side of casing. Measure static or pre-purging water level twice; record initial and confirmation measurements and measurement times (in 24-hour clock format). MP/TOC Stickup measurement is from ground surface to nearest 0.1 ft or 0.01 m. Depth to Water codes: N - not measured; D - dry; O - obstructed; P - pumping; F - flowing (artesian well); R - recently pumped; C - cascading. Water Level (WL) = Depth to Water - Tape Correction factor. Record free product presence at time of water level measurement; use "S" for free product thickness if sheen observed. If free product removed from well, record volume removed in gallons or liters, list product type in "Remarks" column.

**Field WQ Data** Purge Depth: 7.38 ☐ Grab ☐ Bailer X Pump Description:

Casing Volume: [25.01 (TD) - _____ (WL)] • [_____ (Well ID)]$^2$ • [_____ (Conversion Factor)] = 2.88 gals

Well Goes Dry While Purging ☐

Conversion Factor = 0.0408 for feet and gallons; 0.1544 for feet and liters; 0.5066 for meters and liters; Well ID in inches

| | | | | | | (Final) | Meter Type | Remarks |
|---|---|---|---|---|---|---|---|---|
| ☐ Cum. Vol. Purged ☐ Pumping Rate | 2.88 | 11.52 | 14.40 | | | | | |
| Time (hh:mm; 24-hr clock) | 0907 | 0909 | 0916 | | | | | |
| pH (Temperature Corrected? ☐) | 6.31 | 6.03 | 6.0 | | | | OAKTON | 4.0/7.0/10.0 Buffers |
| Temperature, °C | 21 | 21 | 21 | | | | | |
| Dissolved Oxygen mg/L | | | | | | | | |
| S Conductivity µS/cm | 200 | 160 | 157 | | | | OAKTON | 1413 498 |
| Turbidity ☐ NTU | | | | | | | | |
| Color/Tint | ND | ND | ND | | | | | |
| Odor | ND | ND | ND | | | | | |
| | | | | | | | | |

Record time purging starts and ends in "Purging Start" and "Purging End" columns in Water Level Data section. Cum. Vol. Purged: cumulative volume removed before sampling, in gallons or liters. Pumping Rate is gpm or Lpm, depending on box checked in casing volume calculation. Use "Final" column above for recording sample field measurements, total volume purged before sampling or average pumping rate during purging. Record equipment calibration methods, decontamination procedures, equipment failures, purge water disposal method, etc. in daily field notes. SC: Specific Conductance corrected for temperature (µS/cm at 25°C); EC: Electrical Conductivity not corrected for temperature (µS/cm). µS/cm = µmho/cm. 1 gallon (US) = 3.785 L = 0.833 Imperial gallon

**Sample Data** Sample Depth: 7.55 ☐ Grab ☐ Bailer X Pump Description:

| Field Sample ID (unique ID on bottles) | Result Code | Date (m/d/y) | Time (hh:mm) | Bottles (total to lab) | Filtered (0.45 µm) | Lab ID | Case ID | SDG ID | Remarks |
|---|---|---|---|---|---|---|---|---|---|
| W-3 | | 082508 | 0915 | C | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |

Sample ID may be up to 15 characters. Sample Result Code, Date, and Time must be entered. Result Codes: P0, Primary Sample; D#, Duplicate Sample; S#, Split Sample (sent to second lab); BF#, Field Blank; BR#, Equipment Rinsate; BT#, Trip Blank; SF#, Field Spike (# = 1 to 9). Lab ID (up to 5 characters) is name of laboratory that will analyze the sample. Case ID (up to 5 characters) and SDG ID (sample delivery group, up to 15 characters) are required for blanks. Case ID may be the lab service request number or yy-mm. SDG may be lab's SDG, a cooler ID number, or mmddyy. Enter sample preservation and handling data on chain-of-custody form. Also record detailed information about duplicate, split, rinsate, spike, and/or blank sample collection/handling in daily field notes.

| Sampler's Name (print) H. Lgoe / Fox | Signature Bob H Lgoe |
|---|---|

# Environment 1, Inc.

| Sampled By ☐ Bob Hilgoe ☐ Bobby Fox Other: | Facility Plymouth N.C. | Site ID 6020 |
|---|---|---|
| | Project No. | Date (m/d/y) 08 25 08 |

**Site Description** X Monitoring Well ☐ Extraction Well ☐ Irrigation Well ☐ Spring ☐ Borehole ☐ Probe Other:

| | |
|---|---|
| Air Temp: 70 ☐ °C ☒ °F | Weather: CLEAR |
| Well Locked? ☒ yes ☐ no | Damaged/Repairs Needed: |
| x TOC Description: | |
| TOC Stickup: 1.40 ft. above/below ground | Well Inside Diameter (ID): x 2-inch ☐ 4-inch Other: |
| Site Remarks (nearby wells pumping, tide, stream stage, etc.) | |

**Water Level Data** Measurement Units: ft. Well or Borehole Total Depth (TD) from TOC: 20.17

| x E-Tape, # 2 ☐ Steel Tape ☐ Other | Pre-Purge Initial | Pre-Purge Confirmation | Purging Start | During Purging | Purging End | After Sampling | Remarks |
|---|---|---|---|---|---|---|---|
| Time (hh:mm; 24-hr clock) | 0920 | 0920 | 0920 | 0925 | 0927 | 0930 | |
| Depth to Water | 9.28 | 9.28 | 9.28 | 9.48 | 9.45 | 9.34 | |
| Tape Correction | | | | | | | |
| Water Level (WL) | 9.28 | 9.28 | 9.28 | 9.48 | 9.45 | 9.34 | |
| Product Thickness | | | | | | | |
| Product Recovery ☐ gallons ☐ liters | | | | | | | |

Measure water level from fixed measuring point (MP) or top of well casing (TOC). Record water depth to nearest 0.01 ft or 0.002 m, with minus (-) sign if level is above MP or TOC. If no mark on MP or TOC, measure water level from north side of casing. Measure static or pre-purging water level twice; record initial and confirmation measurements and measurement times (in 24-hour clock format). MP/TOC Stickup measurement is from ground surface to nearest 0.1 ft or 0.01 m. Depth to Water codes: N - not measured; D - dry; O - obstructed; P - pumping; F - flowing (artesian well); R - recently pumped; C - cascading. Water Level (WL) = Depth to Water - Tape Correction factor. Record free product presence at time of water level measurement; use "S" for free product thickness if sheen observed. If free product removed from well, record volume removed in gallons or liters, list product type in "Remarks" column.

**Field WQ Data** Purge Depth: 9.28 ☐ Grab ☐ Bailer X Pump Description:

Casing Volume: [20.17 (TD) - _____ (WL)] • [_____ (Well ID)]$^2$ • [_____ (Conversion Factor)] = 1.78 gals

Conversion Factor = 0.0408 for feet and gallons; 0.1544 for feet and liters; 0.5066 for meters and liters; Well ID in inches

Well Goes Dry While Purging ☐

| | | | | | | (Final) | Meter Type | Remarks |
|---|---|---|---|---|---|---|---|---|
| ☐ Cum. Vol. Purged ☐ Pumping Rate | 1.78 | 3.56 | 5.34 | | | | | |
| Time (hh:mm; 24-hr clock) | 0923 | 0924 | 0925 | | | | | |
| pH (Temperature Corrected? ☐) | 6.04 | 5.80 | 5.7 | | | | OAKTON | 4.0/7.0/10.0 Buffers |
| Temperature, °C | 20 | 19 | 19 | | | | | |
| Dissolved Oxygen mg/L | | | | | | | | |
| S Conductivity µS/cm | 149 | 143 | 143 | | | | OAKTON | 1413 498 |
| Turbidity ☐ NTU | | | | | | | | |
| Color/Tint | NO | NO | NO | | | | | |
| Odor | NO | NO | NO | | | | | |
| | | | | | | | | |

Record time purging starts and ends in "Purging Start" and "Purging End" columns in Water Level Data section. Cum. Vol. Purged: cumulative volume removed before sampling, in gallons or liters. Pumping Rate is gpm or Lpm, depending on box checked in casing volume calculation. Use "Final" column above for recording sample field measurements, total volume purged before sampling or average pumping rate during purging. Record equipment calibration methods, decontamination procedures, equipment failures, purge water disposal method, etc. in daily field notes. SC: Specific Conductance corrected for temperature (µS/cm at 25°C); EC: Electrical Conductivity not corrected for temperature (µS/cm). µS/cm = µmho/cm. 1 gallon (US) = 3.785 L = 0.833 Imperial gallon

**Sample Data** Sample Depth: 9.34 ☐ Grab ☐ Bailer X Pump Description:

| Field Sample ID (unique ID on bottles) | Result Code | Date (m/d/y) | Time (hh:mm) | Bottles (total to lab) | Filtered (0.45 µm) | Lab ID | Case ID | SDG ID | Remarks |
|---|---|---|---|---|---|---|---|---|---|
| W-4 | | 08258 | 0930 | 2 | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |

Sample ID may be up to 15 characters. Sample Result Code, Date, and Time must be entered. Result Codes: P0, Primary Sample; D#, Duplicate Sample; S#, Split Sample (sent to second lab); BF#, Field Blank; BR#, Equipment Rinsate; BT#, Trip Blank; SF#, Field Spike (# = 1 to 9). Lab ID (up to 5 characters) is name of laboratory that will analyze the sample. Case ID (up to 5 characters) and SDG ID (sample delivery group, up to 15 characters) are required for blanks. Case ID may be the lab service request number or yy-mm. SDG may be lab's SDG, a cooler ID number, or mmddyy. Enter sample preservation and handling data on chain-of-custody form. Also record detailed information about duplicate, split, rinsate, spike, and/or blank sample collection/handling in daily field notes.

| Sampler's Name (print) H. Lgoe / Fox | Signature Bob H Lgoe |
|---|---|

# Environment 1, Inc.

| | | |
|---|---|---|
| **Sampled By** ☑ Bob Hilgoe ☑ Bobby Fox<br>Other: | **Facility** Plymouth N.C. | **Site ID** 6020 |
| | **Project No.** | **Date** (m/d/y) 08 25 08 |

**Site Description** X Monitoring Well ☐ Extraction Well ☐ Irrigation Well ☐ Spring ☐ Borehole ☐ Probe Other:

| | |
|---|---|
| Air Temp: 70 ☐ °C ☑ °F | Weather: CLEAR |
| Well Locked? ☑ yes ☐ no | Damaged/Repairs Needed: |
| x TOC Description: | |
| TOC Stickup: 1.75 ft. ~~above~~/below ground | Well Inside Diameter (ID): x 2-inch ☐ 4-inch Other: |
| Site Remarks (nearby wells pumping, tide, stream stage, etc.) | |

**Water Level Data** Measurement Units: ft. Well or Borehole Total Depth (TD) from TOC: 23.27

| x E-Tape, # 2<br>☐ Steel Tape ☐ Other | Pre-Purge Initial | Pre-Purge Confirmation | Purging Start | During Purging | Purging End | After Sampling | Remarks |
|---|---|---|---|---|---|---|---|
| Time (hh:mm; 24-hr clock) | 0830 | 0830 | 0830 | 0840 | 0842 | 0845 | |
| Depth to Water | 15.58 | 15.58 | 15.58 | 15.84 | 15.03 | 14.21 | |
| Tape Correction | | | | | | | |
| Water Level (WL) | 15.58 | 15.58 | 15.58 | 15.84 | 15.03 | 14.21 | |
| Product Thickness | | | | | | | |
| Product Recovery<br>☐ gallons ☐ liters | | | | | | | |

Measure water level from fixed measuring point (MP) or top of well casing (TOC). Record water depth to nearest 0.01 ft or 0.002 m, with minus (-) sign if level is above MP or TOC. If no mark on MP or TOC, measure water level from north side of casing. Measure static or pre-purging water level twice; record initial and confirmation measurements and measurement times (in 24-hour clock format). MP/TOC Stickup measurement is from ground surface to nearest 0.1 ft or 0.01 m. Depth to Water codes: N - not measured; D - dry; O - obstructed; P - pumping; F - flowing (artesian well); R - recently pumped; C - cascading. Water Level (WL) = Depth to Water - Tape Correction factor. Record free product presence at time of water level measurement; use "S" for free product thickness if sheen observed. If free product removed from well, record volume removed in gallons or liters, list product type in "Remarks" column.

**Field WQ Data** Purge Depth: 15.58 ☐ Grab ☐ Bailer X Pump Description:

Casing Volume: 23.27 (TD) - _____ (WL) • [_____ (Well ID)]$^2$ • [_____ (Conversion Factor)] = 1.25 gals

Well Goes Dry While Purging ☐

Conversion Factor = 0.0408 for feet and gallons; 0.1544 for feet and liters; 0.5066 for meters and liters; Well ID in inches

| | | | | | | (Final) | Meter Type | Remarks |
|---|---|---|---|---|---|---|---|---|
| ☐ Cum. Vol. Purged<br>☐ Pumping Rate | 1.25 | 2.50 | 3.75 | | | | | |
| Time (hh:mm; 24-hr clock) | 0837 | 0840 | 0842 | | | | | |
| pH (Temperature Corrected? ☐) | 6.5 | 6.6 | 6.6 | | | | OAKTON | 4.0/7.0/10.0 Buffers |
| Temperature, °C | 19 | 19 | 19 | | | | | |
| Dissolved Oxygen mg/L | | | | | | | | |
| S Conductivity µS/cm | 3900 | 4170 | 4300 | | | | OAKTON | 14.13<br>498 |
| Turbidity ☐ NTU | | | | | | | | |
| Color/Tint | NO | NO | NO | | | | | |
| Odor | NO | NO | NO | | | | | |
| | | | | | | | | |

Record time purging starts and ends in "Purging Start" and "Purging End" columns in Water Level Data section. Cum. Vol. Purged: cumulative volume removed before sampling, in gallons or liters. Pumping Rate is gpm or Lpm, depending on box checked in casing volume calculation. Use "Final" column above for recording sample field measurements, total volume purged before sampling or average pumping rate during purging. Record equipment calibration methods, decontamination procedures, equipment failures, purge water disposal method, etc. in daily field notes. SC: Specific Conductance corrected for temperature (µS/cm at 25°C); EC: Electrical Conductivity not corrected for temperature (µS/cm). µS/cm = µmho/cm. 1 gallon (US) = 3.785 L = 0.833 Imperial gallon

**Sample Data** Sample Depth: 14.21 ☐ Grab ☐ Bailer X Pump Description:

| Field Sample ID (unique ID on bottles) | Result Code | Date (m/d/y) | Time (hh:mm) | Bottles (total to lab) | Filtered (0.45 µm) | Lab ID | Case ID | SDG ID | Remarks |
|---|---|---|---|---|---|---|---|---|---|
| W-5 | | 082508 | 0845 | 6 | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |

Sample ID may be up to 15 characters. Sample Result Code, Date, and Time must be entered. Result Codes: P0, Primary Sample; D#, Duplicate Sample; S#, Split Sample (sent to second lab); BF#, Field Blank; BR#, Equipment Rinsate; BT#, Trip Blank; SF#, Field Spike (# = 1 to 9). Lab ID (up to 5 characters) is name of laboratory that will analyze the sample. Case ID (up to 5 characters) and SDG ID (sample delivery group, up to 15 characters) are required for blanks. Case ID may be the lab service request number or yy-mm. SDG may be lab's SDG, a cooler ID number, or mmddyy. Enter sample preservation and handling data on chain-of-custody form. Also record detailed information about duplicate, split, rinsate, spike, and/or blank sample collection/handling in daily field notes.

| | |
|---|---|
| Sampler's Name (print) B. Lgoe / Fox | Signature Bob Hilgoe |



Date Entered into Database By

# Environment 1, Inc.

| Sampled By ☑ Bob Hilgoe ☐ Bobby Fox Other: | Facility Plymouth N.C. | Site ID 6020 |
|---|---|---|
| | Project No. | Date (m/d/y) 08 25 08 |

**Site Description** X Monitoring Well ☐ Extraction Well ☐ Irrigation Well ☐ Spring ☐ Borehole ☐ Probe Other:

| | |
|---|---|
| Air Temp: 70 ☐ °C ☑ °F | Weather: CLEAR |
| Well Locked? ☑ yes ☐ no | Damaged/Repairs Needed: |
| x TOC Description: | |
| TOC Stickup: 2.00 ft. above/below ground | Well Inside Diameter (ID): x 2-inch ☐ 4-inch Other: |
| Site Remarks (nearby wells pumping, tide, stream stage, etc.) | |

**Water Level Data** Measurement Units: ft. Well or Borehole Total Depth (TD) from TOC: 22.54

| x E-Tape, # 2 ☐ Steel Tape ☐ Other | Pre-Purge Initial | Pre-Purge Confirmation | Purging Start | During Purging | Purging End | After Sampling | Remarks |
|---|---|---|---|---|---|---|---|
| Time (hh:mm; 24-hr clock) | 0752 | 0752 | 0820 | 0824 | 0826 | 0829 | |
| Depth to Water | 11.94 | 11.94 | 11.94 | 12.03 | 12.02 | 12.02 | |
| Tape Correction | | | | | | | |
| Water Level (WL) | 11.94 | 11.94 | 11.94 | 12.03 | 12.02 | 12.02 | |
| Product Thickness | | | | | | | |
| Product Recovery ☐ gallons ☐ liters | | | | | | | |

Measure water level from fixed measuring point (MP) or top of well casing (TOC). Record water depth to nearest 0.01 ft or 0.002 m, with minus (-) sign if level is above MP or TOC. If no mark on MP or TOC, measure water level from north side of casing. Measure static or pre-purging water level twice; record initial and confirmation measurements and measurement times (in 24-hour clock format). MP/TOC Stickup measurement is from ground surface to nearest 0.1 ft or 0.01 m. Depth to Water codes: N - not measured; D - dry; O - obstructed; P - pumping; F - flowing (artesian well); R - recently pumped; C - cascading. Water Level (WL) = Depth to Water - Tape Correction factor. Record free product presence at time of water level measurement; use "S" for free product thickness if sheen observed. If free product removed from well, record volume removed in gallons or liters, list product type in "Remarks" column.

**Field WQ Data** Purge Depth: 11.94 ☐ Grab ☐ Bailer X Pump Description:

Casing Volume: [22.54 (TD) - _____ (WL)] • [_____ (Well ID)]$^2$ • [_____ (Conversion Factor)] = 1.73 gals

Well Goes Dry While Purging ☐

Conversion Factor = 0.0408 for feet and gallons; 0.1544 for feet and liters; 0.5066 for meters and liters; Well ID in inches

| | | | | | | (Final) | Meter Type | Remarks |
|---|---|---|---|---|---|---|---|---|
| ☐ Cum. Vol. Purged ☐ Pumping Rate | 1.73 | 3.46 | 5.19 | | | | | |
| Time (hh:mm; 24-hr clock) | 0822 | 0824 | 0826 | | | | | |
| pH (Temperature Corrected? ☐) | 6.1 | 5.6 | 5.4 | | | | OAKTON | 4.0/7.0/10.0 Buffers |
| Temperature, °C | 19 | 19 | 19 | | | | | |
| Dissolved Oxygen mg/L | | | | | | | | |
| S Conductivity µS/cm | 97 | 97 | 95 | | | | OAKTON | 14.13 498 |
| Turbidity ☐ NTU | | | | | | | | |
| Color/Tint | NO | NO | NO | | | | | |
| Odor | NO | NO | NO | | | | | |
| | | | | | | | | |

Record time purging starts and ends in "Purging Start" and "Purging End" columns in Water Level Data section. Cum. Vol. Purged: cumulative volume removed before sampling, in gallons or liters. Pumping Rate is gpm or Lpm, depending on box checked in casing volume calculation. Use "Final" column above for recording sample field measurements, total volume purged before sampling or average pumping rate during purging. Record equipment calibration methods, decontamination procedures, equipment failures, purge water disposal method, etc. in daily field notes. SC: Specific Conductance corrected for temperature (µS/cm at 25°C); EC: Electrical Conductivity not corrected for temperature (µS/cm). µS/cm = µmho/cm. 1 gallon (US) = 3.785 L = 0.833 Imperial gallon

**Sample Data** Sample Depth: 12.02 ☐ Grab ☐ Bailer X Pump Description:

| Field Sample ID (unique ID on bottles) | Result Code | Date (m/d/y) | Time (hh:mm) | Bottles (total to lab) | Filtered (0.45 µm) | Lab ID | Case ID | SDG ID | Remarks |
|---|---|---|---|---|---|---|---|---|---|
| W.6 | | 082508 | 0829 | 6 | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |

Sample ID may be up to 15 characters. Sample Result Code, Date, and Time must be entered. Result Codes: P0, Primary Sample; D#, Duplicate Sample; S#, Split Sample (sent to second lab); BF#, Field Blank; BR#, Equipment Rinsate; BT#, Trip Blank; SF#, Field Spike (# = 1 to 9). Lab ID (up to 5 characters) is name of laboratory that will analyze the sample. Case ID (up to 5 characters) and SDG ID (sample delivery group, up to 15 characters) are required for blanks. Case ID may be the lab service request number or yy-mm. SDG may be lab's SDG, a cooler ID number, or mmddyy. Enter sample preservation and handling data on chain-of-custody form. Also record detailed information about duplicate, split, rinsate, spike, and/or blank sample collection/handling in daily field notes.

| Sampler's Name (print) H. LGOE / FOX | Signature Bob H Lgoe |
|---|---|

# Environment 1, Inc.

| Sampled By ☑ Bob Hilgoe ☑ Bobby Fox | Facility Plymouth N.C. | Site ID 6020 |
|---|---|---|
| Other: | Project No. | Date (m/d/y) 08 25 08 |

**Site Description** X Monitoring Well ☐ Extraction Well ☐ Irrigation Well ☐ Spring ☐ Borehole ☐ Probe Other:

Air Temp: 74 ☐ °C ☑ °F Weather: CLEAR

Well Locked? ☑ yes ☐ no Damaged/Repairs Needed:

x TOC Description:

TOC Stickup: 1.65 ft. above/below ground Well Inside Diameter (ID): x 2-inch ☐ 4-inch Other:

Site Remarks (nearby wells pumping, tide, stream stage, etc.)

**Water Level Data** Measurement Units: ft. Well or Borehole Total Depth (TD) from TOC: 22.55

| x E-Tape, # 2 ☐ Steel Tape ☐ Other | Pre-Purge Initial | Pre-Purge Confirmation | Purging Start | During Purging | Purging End | After Sampling | Remarks |
|---|---|---|---|---|---|---|---|
| Time (hh:mm; 24-hr clock) | 1034 | 1034 | 1034 | 1036 | 1039 | 1040 | |
| Depth to Water | 12.26 | 12.26 | 12.26 | 13.14 | 12.94 | 13.03 | |
| Tape Correction | | | | | | | |
| Water Level (WL) | 12.26 | 12.26 | 12.26 | 13.14 | 12.94 | 13.03 | |
| Product Thickness | | | | | | | |
| Product Recovery ☐ gallons ☐ liters | | | | | | | |

Measure water level from fixed measuring point (MP) or top of well casing (TOC). Record water depth to nearest 0.01 ft or 0.002 m, with minus (-) sign if level is above MP or TOC. If no mark on MP or TOC, measure water level from north side of casing. Measure static or pre-purging water level twice; record initial and confirmation measurements and measurement times (in 24-hour clock format). MP/TOC Stickup measurement is from ground surface to nearest 0.1 ft or 0.01 m. Depth to Water codes: N - not measured; D - dry; O - obstructed; P - pumping; F - flowing (artesian well); R - recently pumped; C - cascading. Water Level (WL) = Depth to Water - Tape Correction factor. Record free product presence at time of water level measurement; use "S" for free product thickness if sheen observed. If free product removed from well, record volume removed in gallons or liters, list product type in "Remarks" column.

**Field WQ Data** Purge Depth: 12.26 ☐ Grab ☐ Bailer X Pump Description:

Casing Volume: [22.55 (TD) - _____(WL)] • [_____(Well ID)]$^2$ • [_____(Conversion Factor)] = 1.68 gals

Well Goes Dry While Purging ☐

Conversion Factor = 0.0408 for feet and gallons; 0.1544 for feet and liters; 0.5066 for meters and liters; Well ID in inches

| | | | | | | (Final) | Meter Type | Remarks |
|---|---|---|---|---|---|---|---|---|
| ☐ Cum. Vol. Purged ☐ Pumping Rate | 1.68 | 3.36 | 5.04 | | | | | |
| Time (hh:mm; 24-hr clock) | 1035 | 1036 | 1039 | | | | | |
| pH (Temperature Corrected? ☐) | 4.66 | 4.67 | 4.6 | | | | OAKTON | 4.0/7.0/10.0 Buffers |
| Temperature, °C | 19 | 18 | 19 | | | | | |
| Dissolved Oxygen mg/L | | | | | | | | |
| S Conductivity µS/cm | 166 | 165 | 165 | | | | OAKTON | 1413 498 |
| Turbidity ☐ NTU | | | | | | | | |
| Color/Tint | NO | NO | NO | | | | | |
| Odor | NO | NO | NO | | | | | |
| | | | | | | | | |

Record time purging starts and ends in "Purging Start" and "Purging End" columns in Water Level Data section. Cum. Vol. Purged: cumulative volume removed before sampling, in gallons or liters. Pumping Rate is gpm or Lpm, depending on box checked in casing volume calculation. Use "Final" column above for recording sample field measurements, total volume purged before sampling or average pumping rate during purging. Record equipment calibration methods, decontamination procedures, equipment failures, purge water disposal method, etc. in daily field notes. SC: Specific Conductance corrected for temperature (µS/cm at 25°C); EC: Electrical Conductivity not corrected for temperature (µS/cm). µS/cm = µmho/cm. 1 gallon (US) = 3.785 L = 0.833 Imperial gallon

**Sample Data** Sample Depth: 13.03 ☐ Grab ☐ Bailer X Pump Description:

| Field Sample ID (unique ID on bottles) | Result Code | Date (m/d/y) | Time (hh:mm) | Bottles (total to lab) | Filtered (0.45 µm) | Lab ID | Case ID | SDG ID | Remarks |
|---|---|---|---|---|---|---|---|---|---|
| W-7 | | 08258 | 1040 | 6 | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |

Sample ID may be up to 15 characters. Sample Result Code, Date, and Time must be entered. Result Codes: P0, Primary Sample; D#, Duplicate Sample; S#, Split Sample (sent to second lab); BF#, Field Blank; BR#, Equipment Rinsate; BT#, Trip Blank; SF#, Field Spike (# = 1 to 9). Lab ID (up to 5 characters) is name of laboratory that will analyze the sample. Case ID (up to 5 characters) and SDG ID (sample delivery group, up to 15 characters) are required for blanks. Case ID may be the lab service request number or yy-mm. SDG may be lab's SDG, a cooler ID number, or mmddyy. Enter sample preservation and handling data on chain-of-custody form. Also record detailed information about duplicate, split, rinsate, spike, and/or blank sample collection/handling in daily field notes.

| Sampler's Name (print) H. Lgoe / Fox | Signature Bob H Lgoe |
|---|---|

# Environment 1, Inc.

| Sampled By ☑ Bob Hilgoe ☑ Bobby Fox Other: | Facility Plymouth N.C. | Site ID 6020 |
|---|---|---|
| | Project No. | Date (m/d/y) 08 25 08 |

**Site Description** X Monitoring Well ☐ Extraction Well ☐ Irrigation Well ☐ Spring ☐ Borehole ☐ Probe Other:

| | |
|---|---|
| Air Temp: 76 ☐ °C ☑ °F | Weather: CLEAR |
| Well Locked? ☑ yes ☐ no | Damaged/Repairs Needed: |
| x TOC Description: | |
| TOC Stickup: 1.50 ft. above/below ground | Well Inside Diameter (ID): x 2-inch ☐ 4-inch Other: |
| Site Remarks (nearby wells pumping, tide, stream stage, etc.) | |

**Water Level Data** Measurement Units: ft. Well or Borehole Total Depth (TD) from TOC: 45.63

| x E-Tape, # 2 ☐ Steel Tape ☐ Other | Pre-Purge Initial | Pre-Purge Confirmation | Purging Start | During Purging | Purging End | After Sampling | Remarks |
|---|---|---|---|---|---|---|---|
| Time (hh:mm; 24-hr clock) | 1049 | 1049 | 1049 | 1053 | 1054 | 1056 | |
| Depth to Water | 30.70 | 30.70 | 30.70 | 30.89 | 31.22 | 31.03 | |
| Tape Correction | | | | | | | |
| Water Level (WL) | 30.70 | 30.70 | 30.70 | 30.89 | 31.22 | 31.03 | |
| Product Thickness | | | | | | | |
| Product Recovery ☐ gallons ☐ liters | | | | | | | |

Measure water level from fixed measuring point (MP) or top of well casing (TOC). Record water depth to nearest 0.01 ft or 0.002 m, with minus (-) sign if level is above MP or TOC. If no mark on MP or TOC, measure water level from north side of casing. Measure static or pre-purging water level twice; record initial and confirmation measurements and measurement times (in 24-hour clock format). MP/TOC Slickup measurement is from ground surface to nearest 0.1 ft or 0.01 m. Depth to Water codes: N - not measured; D - dry; O - obstructed; P - pumping; F - flowing (artesian well); R - recently pumped; C - cascading. Water Level (WL) = Depth to Water - Tape Correction factor. Record free product presence at time of water level measurement; use "S" for free product thickness if sheen observed. If free product removed from well, record volume removed in gallons or liters, list product type in "Remarks" column.

**Field WQ Data** Purge Depth: 30.70 ☐ Grab ☐ Bailer X Pump Description:

Casing Volume: [45.63 (TD) - _____ (WL)] • [_____ (Well ID)]$^2$ • [_____ (Conversion Factor)] = 2.44 gals

Conversion Factor = 0.0408 for feet and gallons; 0.1544 for feet and liters; 0.5066 for meters and liters; Well ID in inches

Well Goes Dry While Purging ☐

| ☐ Cum. Vol. Purged ☐ Pumping Rate | | | | | | (Final) | Meter Type | Remarks |
|---|---|---|---|---|---|---|---|---|
| | 2.44 | 4.88 | 7.32 | | | | | |
| Time (hh:mm; 24-hr clock) | 1051 | 1053 | 1054 | | | | | |
| pH (Temperature Corrected? ☐) | 6.07 | 5.90 | 5.8 | | | | OAKTON | 4.0/7.0/10.0 Buffers |
| Temperature, °C | 18 | 18 | 17 | | | | | |
| Dissolved Oxygen mg/L | | | | | | | | |
| S Conductivity µS/cm | 128 | 116 | 112 | | | | OAKTON | 14.13 498 |
| Turbidity ☐ NTU | | | | | | | | |
| Color/Tint | NO | NO | NO | | | | | |
| Odor | NO | NO | NO | | | | | |
| | | | | | | | | |

**Record time purging starts and ends in "Purging Start" and "Purging End" columns in Water Level Data section.** Cum. Vol. Purged: cumulative volume removed before sampling, in gallons or liters. Pumping Rate is gpm or Lpm, depending on box checked in casing volume calculation. Use "Final" column above for recording sample field measurements, total volume purged before sampling or average pumping rate during purging. Record equipment calibration methods, decontamination procedures, equipment failures, purge water disposal method, etc. in daily field notes. SC: Specific Conductance corrected for temperature (µS/cm at 25°C); EC: Electrical Conductivity not corrected for temperature (µS/cm). µS/cm = µmho/cm. 1 gallon (US) = 3.785 L = 0.833 Imperial gallon

**Sample Data** Sample Depth: 31.03 ☐ Grab ☐ Bailer X Pump Description:

| Field Sample ID (unique ID on bottles) | Result Code | Date (m/d/y) | Time (hh:mm) | Bottles (total to lab) | Filtered (0.45 µm) | Lab ID | Case ID | SDG ID | Remarks |
|---|---|---|---|---|---|---|---|---|---|
| W-8 | | 082508 | 1056 | 6 | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |

Sample ID may be up to 15 characters. **Sample Result Code, Date, and Time must be entered.** Result Codes: P0, Primary Sample; D#, Duplicate Sample; S#, Split Sample (sent to second lab); BF#, Field Blank; BR#, Equipment Rinsate; BT#, Trip Blank; SF#, Field Spike (# = 1 to 9). Lab ID (up to 5 characters) is name of laboratory that will analyze the sample. Case ID (up to 5 characters) and SDG ID (sample delivery group, up to 15 characters) are required for blanks. Case ID may be the lab service request number or yy-mm. SDG may be lab's SDG, a cooler ID number, or mmddyy. Enter sample preservation and handling data on chain-of-custody form. Also record detailed information about duplicate, split, rinsate, spike, and/or blank sample collection/handling in daily field notes.

| Sampler's Name (print) H. Hilgoe / Fox | Signature Bob H Hilgoe |
|---|---|

# Environment 1, Inc.

| Sampled By ☒ Bob Hilgoe ☐ Bobby Fox Other: | Facility Plymouth N.C. | Site ID 6020 |
|---|---|---|
| | Project No. | Date (m/d/y) 08 25 08 |

**Site Description** X Monitoring Well ☐ Extraction Well ☐ Irrigation Well ☐ Spring ☐ Borehole ☐ Probe Other:

| | |
|---|---|
| Air Temp: 76 ☐ °C ☒ °F | Weather: CLEAR |
| Well Locked? ☒ yes ☐ no | Damaged/Repairs Needed: |
| x TOC Description: | |
| TOC Stickup: 2.50 ft. above/below ground | Well Inside Diameter (ID): x 2-inch ☐ 4-inch Other: |
| Site Remarks (nearby wells pumping, tide, stream stage, etc.) | |

**Water Level Data** Measurement Units: ft. Well or Borehole Total Depth (TD) from TOC: 30.21

| x E-Tape, # 2 ☐ Steel Tape ☐ Other | Pre-Purge Initial | Pre-Purge Confirmation | Purging Start | During Purging | Purging End | After Sampling | Remarks |
|---|---|---|---|---|---|---|---|
| Time (hh:mm; 24-hr clock) | 1103 | 1103 | 1103 | 1107 | 1109 | 1115 | |
| Depth to Water | 25.03 | 25.03 | 25.03 | 25.21 | 25.31 | 25.66 | |
| Tape Correction | | | | | | | |
| Water Level (WL) | 25.03 | 25.03 | 25.03 | 25.21 | 25.31 | 25.66 | |
| Product Thickness | | | | | | | |
| Product Recovery ☐ gallons ☐ liters | | | | | | | |

Measure water level from fixed measuring point (MP) or top of well casing (TOC). Record water depth to nearest 0.01 ft or 0.002 m, with minus (-) sign if level is above MP or TOC. If no mark on MP or TOC, measure water level from north side of casing. Measure static or pre-purging water level twice; record initial and confirmation measurements and measurement times (in 24-hour clock format). MP/TOC Stickup measurement is from ground surface to nearest 0.1 ft or 0.01 m. Depth to Water codes: N - not measured; D - dry; O - obstructed; P - pumping; F - flowing (artesian well); R - recently pumped; C - cascading. Water Level (WL) = Depth to Water - Tape Correction factor. Record free product presence at time of water level measurement; use "S" for free product thickness if sheen observed. If free product removed from well, record volume removed in gallons or liters, list product type in "Remarks" column.

**Field WQ Data** Purge Depth: 25.03 ☐ Grab ☐ Bailer X Pump Description:

Casing Volume: [30.21 (TD) - _____ (WL)] • [_____ (Well ID)]$^2$ • [_____ (Conversion Factor)] = 0.84 gals

Conversion Factor = 0.0408 for feet and gallons; 0.1544 for feet and liters; 0.5066 for meters and liters; Well ID in inches

Well Goes Dry While Purging ☐

| ☐ Cum. Vol. Purged ☐ Pumping Rate | | | | | | (Final) | Meter Type | Remarks |
|---|---|---|---|---|---|---|---|---|
| Time (hh:mm; 24-hr clock) | 1105 | 1107 | 1109 | | | | | |
| pH (Temperature Corrected? ☐) | 5.01 | 4.85 | 4.8 | | | | OAKTON | 4.0/7.0/10.0 Buffers |
| Temperature, °C | 19 | 18 | 17 | | | | | |
| Dissolved Oxygen mg/L | | | | | | | | |
| S Conductivity µS/cm | 92 | 93 | 93 | | | | OAKTON | 1413 498 |
| Turbidity ☐ NTU | | | | | | | | |
| Color/Tint | NO | NO | NO | | | | | |
| Odor | NO | NO | NO | | | | | |
| | | | | | | | | |

Record time purging starts and ends in "Purging Start" and "Purging End" columns in Water Level Data section. Cum. Vol. Purged: cumulative volume removed before sampling, in gallons or liters. Pumping Rate is gpm or Lpm, depending on box checked in casing volume calculation. Use "Final" column above for recording sample field measurements, total volume purged before sampling or average pumping rate during purging. Record equipment calibration methods, decontamination procedures, equipment failures, purge water disposal method, etc. in daily field notes. SC: Specific Conductance corrected for temperature (µS/cm at 25°C); EC: Electrical Conductivity not corrected for temperature (µS/cm). µS/cm = µmho/cm. 1 gallon (US) = 3.785 L = 0.833 Imperial gallon

**Sample Data** Sample Depth: 25.66 ☐ Grab ☐ Bailer X Pump Description:

| Field Sample ID (unique ID on bottles) | Result Code | Date (m/d/y) | Time (hh:mm) | Bottles (total to lab) | Filtered (0.45 µm) | Lab ID | Case ID | SDG ID | Remarks |
|---|---|---|---|---|---|---|---|---|---|
| W-9 | | 08/25/08 | 1115 | 6 | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |

Sample ID may be up to 15 characters. Sample Result Code, Date, and Time must be entered. Result Codes: P0, Primary Sample; D#, Duplicate Sample; S#, Split Sample (sent to second lab); BF#, Field Blank; BR#, Equipment Rinsate; BT#, Trip Blank; SF#, Field Spike (# = 1 to 9). Lab ID (up to 5 characters) is name of laboratory that will analyze the sample. Case ID (up to 5 characters) and SDG ID (sample delivery group, up to 15 characters) are required for blanks. Case ID may be the lab service request number or yy-mm. SDG may be lab's SDG, a cooler ID number, or mmddyy. Enter sample preservation and handling data on chain-of-custody form. Also record detailed information about duplicate, split, rinsate, spike, and/or blank sample collection/handling in daily field notes.

| Sampler's Name (print) HILGOE/FOX | Signature Bob Hilgoe |
|---|---|

# Environment 1, Inc.

| Sampled By ☐ Bob Hilgoe ☐ Bobby Fox Other: | Facility Plymouth N.C. | Site ID 6020 |
|---|---|---|
| | Project No. | Date (m/d/y) 9/25 08 |

**Site Description** X Monitoring Well ☐ Extraction Well ☐ Irrigation Well ☐ Spring ☐ Borehole ☐ Probe Other:

Air Temp: 77 ☐ °C ☐ °F Weather: CLEAR

Well Locked? ☑ yes ☐ no Damaged/Repairs Needed:

x TOC Description:

TOC Stickup: 2.50 ft. above/below ground Well Inside Diameter (ID): x 2-inch ☐ 4-inch Other:

Site Remarks (nearby wells pumping, tide, stream stage, etc.)

**Water Level Data** Measurement Units: ft. Well or Borehole Total Depth (TD) from TOC: 25.65

| x E-Tape, # 2 ☐ Steel Tape ☐ Other | Pre-Purge Initial | Pre-Purge Confirmation | Purging Start | During Purging | Purging End | After Sampling | Remarks |
|---|---|---|---|---|---|---|---|
| Time (hh:mm; 24-hr clock) | 1122 | 1122 | 1122 | 1127 | 1129 | 1131 | |
| Depth to Water | 18.49 | 18.49 | 18.49 | 19.51 | 19.57 | 19.31 | |
| Tape Correction | | | | | | | |
| Water Level (WL) | 18.49 | 18.49 | 18.49 | 19.51 | 19.57 | 19.31 | |
| Product Thickness | | | | | | | |
| Product Recovery ☐ gallons ☐ liters | | | | | | | |

Measure water level from fixed measuring point (MP) or top of well casing (TOC). Record water depth to nearest 0.01 ft or 0.002 m, with minus (-) sign if level is above MP or TOC. If no mark on MP or TOC, measure water level from north side of casing. Measure static or pre-purging water level twice; record initial and confirmation measurements and measurement times (in 24-hour clock format). MP/TOC Stickup measurement is from ground surface to nearest 0.1 ft or 0.01 m. Depth to Water codes: N - not measured; D - dry; O - obstructed; P - pumping; F - flowing (artesian well); R - recently pumped; C - cascading. Water Level (WL) = Depth to Water - Tape Correction factor. Record free product presence at time of water level measurement; use "S" for free product thickness if sheen observed. If free product removed from well, record volume removed in gallons or liters, list product type in "Remarks" column.

**Field WQ Data** Purge Depth: 18.49 ☐ Grab ☐ Bailer X Pump Description:

Casing Volume: [25.65 (TD) - _____ (WL)] • [_____ (Well ID)]$^2$ • [_____ (Conversion Factor)] = 1.17 gals

Conversion Factor = 0.0408 for feet and gallons; 0.1544 for feet and liters; 0.5066 for meters and liters; Well ID in inches

Well Goes Dry While Purging ☐

| ☐ Cum. Vol. Purged ☐ Pumping Rate | | | | | | (Final) | Meter Type | Remarks |
|---|---|---|---|---|---|---|---|---|
| | 1.17 | 2.34 | 3.51 | | | | | |
| Time (hh:mm; 24-hr clock) | 1125 | 1127 | 1129 | | | | | |
| pH (Temperature Corrected? ☐) | 5.51 | 5.49 | 5.5 | | | | OAKTON | 4.0/7.0/10.0 Buffers |
| Temperature, °C | 17 | 16 | 15 | | | | | |
| Dissolved Oxygen mg/L | | | | | | | | |
| S Conductivity µS/cm | 131 | 142 | 165 | | | | OAKTON | 1413 498 |
| Turbidity ☐ NTU | | | | | | | | |
| Color/Tint | NO | NO | NO | | | | | |
| Odor | NO | NO | NO | | | | | |
| | | | | | | | | |

Record time purging starts and ends in "Purging Start" and "Purging End" columns in Water Level Data section. Cum. Vol. Purged: cumulative volume removed before sampling, in gallons or liters. Pumping Rate is gpm or Lpm, depending on box checked in casing volume calculation. Use "Final" column above for recording sample field measurements, total volume purged before sampling or average pumping rate during purging. Record equipment calibration methods, decontamination procedures, equipment failures, purge water disposal method, etc. in daily field notes. SC: Specific Conductance corrected for temperature (µS/cm at 25°C); EC: Electrical Conductivity not corrected for temperature (µS/cm). µS/cm = µmho/cm. 1 gallon (US) = 3.785 L = 0.833 Imperial gallon

**Sample Data** Sample Depth: 19.31 ☐ Grab ☐ Bailer X Pump Description:

| Field Sample ID (unique ID on bottles) | Result Code | Date (m/d/y) | Time (hh:mm) | Bottles (total to lab) | Filtered (0.45 µm) | Lab ID | Case ID | SDG ID | Remarks |
|---|---|---|---|---|---|---|---|---|---|
| W-10 | | 092508 | 1131 | 6 | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |

Sample ID may be up to 15 characters. Sample Result Code, Date, and Time must be entered. Result Codes: P0, Primary Sample; D#, Duplicate Sample; S#, Split Sample (sent to second lab); BF#, Field Blank; BR#, Equipment Rinsate; BT#, Trip Blank; SF#, Field Spike (# = 1 to 9). Lab ID (up to 5 characters) is name of laboratory that will analyze the sample. Case ID (up to 5 characters) and SDG ID (sample delivery group, up to 15 characters) are required for blanks. Case ID may be the lab service request number or yy-mm. SDG may be lab's SDG, a cooler ID number, or mmddyy. Enter sample preservation and handling data on chain-of-custody form. Also record detailed information about duplicate, split, rinsate, spike, and/or blank sample collection/handling in daily field notes.

| Sampler's Name (print) HILGOE / FOX | Signature Bob H Hilgoe |
|---|---|

# Environment 1, Inc.

| Sampled By ☑ Bob Hilgoe ☑ Bobby Fox Other: | Facility Plymouth N.C. | Site ID 6020 |
|---|---|---|
| | Project No. | Date (m/d/y) 08 25 08 |

**Site Description** X Monitoring Well ☐ Extraction Well ☐ Irrigation Well ☐ Spring ☐ Borehole ☐ Probe Other:

| | |
|---|---|
| Air Temp: 78 ☐ °C ☑ °F | Weather: CLEAR |
| Well Locked? ☑ yes ☐ no | Damaged/Repairs Needed: |
| x TOC Description: | |
| TOC Stickup: 3.42 ft. above/below ground | Well Inside Diameter (ID): x 2-inch ☐ 4-inch Other: |
| Site Remarks (nearby wells pumping, tide, stream stage, etc.) | |

**Water Level Data** Measurement Units: ft. Well or Borehole Total Depth (TD) from TOC: 22.92

| x E-Tape, # 2 ☐ Steel Tape ☐ Other | Pre-Purge Initial | Pre-Purge Confirmation | Purging Start | During Purging | Purging End | After Sampling | Remarks |
|---|---|---|---|---|---|---|---|
| Time (hh:mm; 24-hr clock) | 1138 | 1138 | 1138 | 1143 | 1145 | 1150 | |
| Depth to Water | 14.90 | 14.90 | 14.90 | 15.43 | 15.44 | 15.45 | |
| Tape Correction | | | | | | | |
| Water Level (WL) | 14.90 | 14.90 | 14.90 | 15.43 | 15.44 | 15.45 | |
| Product Thickness | | | | | | | |
| Product Recovery ☐ gallons ☐ liters | | | | | | | |

Measure water level from fixed measuring point (MP) or top of well casing (TOC). Record water depth to nearest 0.01 ft or 0.002 m, with minus (-) sign if level is above MP or TOC. If no mark on MP or TOC, measure water level from north side of casing. Measure static or pre-purging water level twice; record initial and confirmation measurements and measurement times (in 24-hour clock format). MP/TOC Stickup measurement is from ground surface to nearest 0.1 ft or 0.01 m. Depth to Water codes: N - not measured; D - dry; O - obstructed; P - pumping; F - flowing (artesian well); R - recently pumped; C - cascading. Water Level (WL) = Depth to Water - Tape Correction factor. Record free product presence at time of water level measurement; use "S" for free product thickness if sheen observed. If free product removed from well, record volume removed in gallons or liters, list product type in "Remarks" column.

**Field WQ Data** Purge Depth: 14.90 ☐ Grab ☐ Bailer X Pump Description:

Casing Volume: [22.92 (TD) - _____(WL)] • [_____(Well ID)]$^2$ • [_____(Conversion Factor)] = 1.31 gals

Conversion Factor = 0.0408 for feet and gallons; 0.1544 for feet and liters; 0.5066 for meters and liters; Well ID in inches

Well Goes Dry While Purging ☐

| ☐ Cum. Vol. Purged ☐ Pumping Rate | | | | | | (Final) | Meter Type | Remarks |
|---|---|---|---|---|---|---|---|---|
| | 1.31 | 2.62 | 3.93 | | | | | |
| Time (hh:mm; 24-hr clock) | 1141 | 1143 | 1145 | | | | | |
| pH (Temperature Corrected? ☐) | 5.26 | 5.24 | 5.3 | | | | OAKTON | 4.0/7.0/10.0 Buffers |
| Temperature, °C | 18 | 17 | 18 | | | | | |
| Dissolved Oxygen mg/L | | | | | | | | |
| S Conductivity µS/cm | 99 | 99 | 98 | | | | OAKTON | 1413 498 |
| Turbidity ☐ NTU | | | | | | | | |
| Color/Tint | NO | NO | NO | | | | | |
| Odor | NO | NO | NO | | | | | |
| | | | | | | | | |

**Record time purging starts and ends in "Purging Start" and "Purging End" columns in Water Level Data section.** Cum. Vol. Purged: cumulative volume removed before sampling, in gallons or liters. Pumping Rate is gpm or Lpm, depending on box checked in casing volume calculation. Use "Final" column above for recording sample field measurements, total volume purged before sampling or average pumping rate during purging. Record equipment calibration methods, decontamination procedures, equipment failures, purge water disposal method, etc. in daily field notes. SC: Specific Conductance corrected for temperature (µS/cm at 25°C); EC: Electrical Conductivity not corrected for temperature (µS/cm). µS/cm = µmho/cm. 1 gallon (US) = 3.785 L = 0.833 Imperial gallon

**Sample Data** Sample Depth: 15.45 ☐ Grab ☐ Bailer X Pump Description:

| Field Sample ID (unique ID on bottles) | Result Code | Date (m/d/y) | Time (hh:mm) | Bottles (total to lab) | Filtered (0.45 µm) | Lab ID | Case ID | SDG ID | Remarks |
|---|---|---|---|---|---|---|---|---|---|
| W-11 | | 082508 | 1150 | 6 | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |

Sample ID may be up to 15 characters. **Sample Result Code, Date, and Time must be entered.** Result Codes: P0, Primary Sample; D#, Duplicate Sample; S#, Split Sample (sent to second lab); BF#, Field Blank; BR#, Equipment Rinsate; BT#, Trip Blank; SF#, Field Spike (# = 1 to 9). Lab ID (up to 5 characters) is name of laboratory that will analyze the sample. Case ID (up to 5 characters) and SDG ID (sample delivery group, up to 15 characters) are required for blanks. Case ID may be the lab service request number or yy-mm. SDG may be lab's SDG, a cooler ID number, or mmddyy. Enter sample preservation and handling data on chain-of-custody form. Also record detailed information about duplicate, split, rinsate, spike, and/or blank sample collection/handling in daily field notes.

| Sampler's Name (print) Hilgoe/Fox | Signature Bob Hilgoe |
|---|---|

# Environment 1, Inc.

| Sampled By ☑ Bob Hilgoe ☐ Bobby Fox Other: | Facility PLYMOUTH N.C. | Site ID 6020 |
|---|---|---|
| | Project No. | Date (m/d/y) 08 25 08 |

**Site Description** X Monitoring Well ☐ Extraction Well ☐ Irrigation Well ☐ Spring ☐ Borehole ☐ Probe Other:

| | |
|---|---|
| Air Temp: 78 ☐ °C ☑ °F | Weather: CLEAR |
| Well Locked? ☑ yes ☐ no | Damaged/Repairs Needed: |
| x TOC Description: | |
| TOC Stickup: 3.02 ft. above/below ground | Well Inside Diameter (ID): x 2-inch ☐ 4-inch Other: |
| Site Remarks (nearby wells pumping, tide, stream stage, etc.) | |

**Water Level Data** Measurement Units: ft. Well or Borehole Total Depth (TD) from TOC: 24.82

| x E-Tape, # 2 ☐ Steel Tape ☐ Other | Pre-Purge Initial | Pre-Purge Confirmation | Purging Start | During Purging | Purging End | After Sampling | Remarks |
|---|---|---|---|---|---|---|---|
| Time (hh:mm; 24-hr clock) | 1200 | 1200 | 1200 | | | | |
| Depth to Water | 22.75 | 22.75 | 22.75 | | | | |
| Tape Correction | | | | | | | |
| Water Level (WL) | 22.75 | 22.75 | 22.75 | | | | |
| Product Thickness | | | | | | | |
| Product Recovery ☐ gallons ☐ liters | | | | | | | |

Measure water level from fixed measuring point (MP) or top of well casing (TOC). Record water depth to nearest 0.01 ft or 0.002 m, with minus (-) sign if level is above MP or TOC. If no mark on MP or TOC, measure water level from north side of casing. Measure static or pre-purging water level twice; record initial and confirmation measurements and measurement times (in 24-hour clock format). MP/TOC Stickup measurement is from ground surface to nearest 0.1 ft or 0.01 m. Depth to Water codes: N - not measured; D - dry; O - obstructed; P - pumping; F - flowing (artesian well); R - recently pumped; C - cascading. Water Level (WL) = Depth to Water - Tape Correction factor. Record free product presence at time of water level measurement; use "S" for free product thickness if sheen observed. If free product removed from well, record volume removed in gallons or liters, list product type in "Remarks" column.

**Field WQ Data** Purge Depth: 22.75 ☐ Grab ☐ Bailer X Pump Description:

Casing Volume: [24.82 (TD) - _____ (WL)] • [_____ (Well ID)]$^2$ • [_____ (Conversion Factor)] = 0.34 gals

Conversion Factor = 0.0408 for feet and gallons; 0.1544 for feet and liters; 0.5066 for meters and liters; Well ID in inches

Well Goes Dry While Purging ☑

| ☐ Cum. Vol. Purged ☐ Pumping Rate | | | | | | (Final) | Meter Type | Remarks |
|---|---|---|---|---|---|---|---|---|
| | 0.34 | 0.68 | 1.02 | | | | | |
| Time (hh:mm; 24-hr clock) | 1203 | | | | | | | |
| pH (Temperature Corrected? ☐) | 5.04 | | | | | | OAKTON | 4.0/7.0/10.0 Buffers |
| Temperature, °C | 19 | | | | | | | |
| Dissolved Oxygen mg/L | | | | | | | | |
| S Conductivity µS/cm | 110 | | | | | | OAKTON | 1413 498 |
| Turbidity ☐ NTU | | | | | | | | |
| Color/Tint | NO | | | | | | | |
| Odor | NO | | | | | | | |
| | | | | | | | | |

Record time purging starts and ends in "Purging Start" and "Purging End" columns in Water Level Data section. Cum. Vol. Purged: cumulative volume removed before sampling, in gallons or liters. Pumping Rate is gpm or Lpm, depending on box checked in casing volume calculation. Use "Final" column above for recording sample field measurements, total volume purged before sampling or average pumping rate during purging. Record equipment calibration methods, decontamination procedures, equipment failures, purge water disposal method, etc. in daily field notes. SC: Specific Conductance corrected for temperature (µS/cm at 25°C); EC: Electrical Conductivity not corrected for temperature (µS/cm). µS/cm = µmho/cm. 1 gallon (US) = 3.785 L = 0.833 Imperial gallon

**Sample Data** Sample Depth: ☐ Grab ☐ Bailer X Pump Description:

| Field Sample ID (unique ID on bottles) | Result Code | Date (m/d/y) | Time (hh:mm) | Bottles (total to lab) | Filtered (0.45 µm) | Lab ID | Case ID | SDG ID | Remarks |
|---|---|---|---|---|---|---|---|---|---|
| W-12 | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |

Sample ID may be up to 15 characters. Sample Result Code, Date, and Time must be entered. Result Codes: P0, Primary Sample; D#, Duplicate Sample; S#, Split Sample (sent to second lab); BF#, Field Blank; BR#, Equipment Rinsate; BT#, Trip Blank; SF#, Field Spike (# = 1 to 9). Lab ID (up to 5 characters) is name of laboratory that will analyze the sample. Case ID (up to 5 characters) and SDG ID (sample delivery group, up to 15 characters) are required for blanks. Case ID may be the lab service request number or yy-mm. SDG may be lab's SDG, a cooler ID number, or mmddyy. Enter sample preservation and handling data on chain-of-custody form. Also record detailed information about duplicate, split, rinsate, spike, and/or blank sample collection/handling in daily field notes.

| Sampler's Name (print) H. LGOE / FOX | Signature Bob Hilgoe |
|---|---|

# Environment 1, Inc.

| Sampled By ☑ Bob Hilgoe ☐ Bobby Fox Other: | Facility Plymouth N.C. | Site ID 6020 |
|---|---|---|
| | Project No. | Date (m/d/y) 08 25 08 |

**Site Description** X Monitoring Well ☐ Extraction Well ☐ Irrigation Well ☐ Spring ☐ Borehole ☐ Probe Other:

| | |
|---|---|
| Air Temp: 72 ☐ °C ☐ °F | Weather: CLEAR |
| Well Locked? ☐ yes ☐ no | Damaged/Repairs Needed: |
| x TOC Description: | |
| TOC Stickup: 2.29 ft. above/below ground | Well Inside Diameter (ID): x 2-inch ☐ 4-inch Other: |
| Site Remarks (nearby wells pumping, tide, stream stage, etc.) | |

**Water Level Data** Measurement Units: ft. Well or Borehole Total Depth (TD) from TOC: 47.22

| x E-Tape, # 2 ☐ Steel Tape ☐ Other | Pre-Purge Initial | Pre-Purge Confirmation | Purging Start | During Purging | Purging End | After Sampling | Remarks |
|---|---|---|---|---|---|---|---|
| Time (hh:mm; 24-hr clock) | 0954 | 0954 | 0954 | 1023 | 1024 | 1026 | |
| Depth to Water | 29.68 | 29.68 | 29.68 | 29.92 | 29.92 | 29.98 | |
| Tape Correction | | | | | | | |
| Water Level (WL) | 29.68 | 29.68 | 29.68 | 29.92 | 29.92 | 29.98 | |
| Product Thickness | | | | | | | |
| Product Recovery ☐ gallons ☐ liters | | | | | | | |

Measure water level from fixed measuring point (MP) or top of well casing (TOC). Record water depth to nearest 0.01 ft or 0.002 m, with minus (-) sign if level is above MP or TOC. If no mark on MP or TOC, measure water level from north side of casing. Measure static or pre-purging water level twice; record initial and confirmation measurements and measurement times (in 24-hour clock format). MP/TOC Stickup measurement is from ground surface to nearest 0.1 ft or 0.01 m. Depth to Water codes: N - not measured; D - dry; O - obstructed; P - pumping; F - flowing (artesian well); R - recently pumped; C - cascading. Water Level (WL) = Depth to Water - Tape Correction factor. Record free product presence at time of water level measurement; use "S" for free product thickness if sheen observed. If free product removed from well, record volume removed in gallons or liters, list product type in "Remarks" column.

**Field WQ Data** Purge Depth: 29.68 ☐ Grab ☐ Bailer X Pump Description:

Casing Volume: [47.22 (TD) - _____(WL)] • [_____(Well ID)]$^2$ • [_____(Conversion Factor)] = 2.86 gals
Conversion Factor = 0.0408 for feet and gallons; 0.1544 for feet and liters; 0.5066 for meters and liters; Well ID in inches

Well Goes Dry While Purging ☐

| ☐ Cum. Vol. Purged ☐ Pumping Rate | | | | | | (Final) | Meter Type | Remarks |
|---|---|---|---|---|---|---|---|---|
| Time (hh:mm; 24-hr clock) | 1020 | 1023 | 1025 | | | | | |
| pH (Temperature Corrected? ☐) | 6.40 | 6.20 | 6.2 | | | | OAKTON | 4.0/7.0/10.0 Buffers |
| Temperature, °C | 18 | 17 | 18 | | | | | |
| Dissolved Oxygen mg/L | | | | | | | | |
| S Conductivity µS/cm | 138 | 130 | 139 | | | | OAKTON | 1413 498 |
| Turbidity ☐ NTU | | | | | | | | |
| Color/Tint | NO | NO | NO | | | | | |
| Odor | NO | NO | NO | | | | | |
| | | | | | | | | |

Record time purging starts and ends in "Purging Start" and "Purging End" columns in Water Level Data section. Cum. Vol. Purged: cumulative volume removed before sampling, in gallons or liters. Pumping Rate is gpm or Lpm, depending on box checked in casing volume calculation. Use "Final" column above for recording sample field measurements, total volume purged before sampling or average pumping rate during purging. Record equipment calibration methods, decontamination procedures, equipment failures, purge water disposal method, etc. in daily field notes. SC: Specific Conductance corrected for temperature (µS/cm at 25°C); EC: Electrical Conductivity not corrected for temperature (µS/cm). µS/cm = µmho/cm. 1 gallon (US) = 3.785 L = 0.833 Imperial gallon

**Sample Data** Sample Depth: 29.98 ☐ Grab ☐ Bailer X Pump Description:

| Field Sample ID (unique ID on bottles) | Result Code | Date (m/d/y) | Time (hh:mm) | Bottles (total to lab) | Filtered (0.45 µm) | Lab ID | Case ID | SDG ID | Remarks |
|---|---|---|---|---|---|---|---|---|---|
| W1A | | 082508 | 1026 | 6 | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |

Sample ID may be up to 15 characters. Sample Result Code, Date, and Time must be entered. Result Codes: P0, Primary Sample; D#, Duplicate Sample; S#, Split Sample (sent to second lab); BF#, Field Blank; BR#, Equipment Rinsate; BT#, Trip Blank; SF#, Field Spike (# = 1 to 9). Lab ID (up to 5 characters) is name of laboratory that will analyze the sample. Case ID (up to 5 characters) and SDG ID (sample delivery group, up to 15 characters) are required for blanks. Case ID may be the lab service request number or yy-mm. SDG may be lab's SDG, a cooler ID number, or mmddyy. Enter sample preservation and handling data on chain-of-custody form. Also record detailed information about duplicate, split, rinsate, spike, and/or blank sample collection/handling in daily field notes.

| Sampler's Name (print) Hilgoe / Fox | Signature Bob Hilgoe |
|---|---|

# Environment 1, Inc.

| Sampled By ☑ Bob Hilgoe ☐ Bobby Fox Other: | Facility Plymouth N.C. | Site ID 6020 |
|---|---|---|
| | Project No. | Date (m/d/y) 08 25 08 |

**Site Description** X Monitoring Well ☐ Extraction Well ☐ Irrigation Well ☐ Spring ☐ Borehole ☐ Probe Other:

| | |
|---|---|
| Air Temp: 70 ☐ °C ☐ °F | Weather: CLEAR |
| Well Locked? ☐ yes ☐ no | Damaged/Repairs Needed: |
| x TOC Description: | |
| TOC Stickup: 2,12 ft. above/below ground | Well Inside Diameter (ID): x 2-inch ☐ 4-inch Other: |
| Site Remarks (nearby wells pumping, tide, stream stage, etc.) | |

**Water Level Data** Measurement Units: ft. Well or Borehole Total Depth (TD) from TOC: 52.99

| x E-Tape, # 2 ☐ Steel Tape ☐ Other | Pre-Purge Initial | Pre-Purge Confirmation | Purging Start | During Purging | Purging End | After Sampling | Remarks |
|---|---|---|---|---|---|---|---|
| Time (hh:mm; 24-hr clock) | 0752 | 0752 | 0810 | 0814 | 0815 | 0819 | |
| Depth to Water | 11.45 | 11.45 | 11.45 | 13.80 | 14.28 | 16.34 | |
| Tape Correction | | | | | | | |
| Water Level (WL) | 11.45 | 11.45 | 11.45 | 13.80 | 14.28 | 16.34 | |
| Product Thickness | | | | | | | |
| Product Recovery ☐ gallons ☐ liters | | | | | | | |

Measure water level from fixed measuring point (MP) or top of well casing (TOC). Record water depth to nearest 0.01 ft or 0.002 m, with minus (-) sign if level is above MP or TOC. If no mark on MP or TOC, measure water level from north side of casing. Measure static or pre-purging water level twice; record initial and confirmation measurements and measurement times (in 24-hour clock format). MP/TOC Stickup measurement is from ground surface to nearest 0.1 ft or 0.01 m. Depth to Water codes: N - not measured; D - dry; O - obstructed; P - pumping; F - flowing (artesian well); R - recently pumped; C - cascading. Water Level (WL) = Depth to Water - Tape Correction factor. Record free product presence at time of water level measurement; use "S" for free product thickness if sheen observed. If free product removed from well, record volume removed in gallons or liters, list product type in "Remarks" column.

**Field WQ Data** Purge Depth: 11.45 ☐ Grab ☐ Bailer X Pump Description:

Casing Volume: [52.99 (TD) - _____ (WL)] • [_____ (Well ID)]$^2$ • [_____ (Conversion Factor)] = 6.78 gals

Conversion Factor = 0.0408 for feet and gallons; 0.1544 for feet and liters; 0.5066 for meters and liters; Well ID in inches

Well Goes Dry While Purging ☐

| ☐ Cum. Vol. Purged ☐ Pumping Rate | | | | | | (Final) | Meter Type | Remarks |
|---|---|---|---|---|---|---|---|---|
| Time (hh:mm; 24-hr clock) | 0811 | 0814 | 0815 | | | | | |
| pH (Temperature Corrected? ☐) | 7.60 | 7.50 | 7.5 | | | | OAKTON | 4.0/7.0/10.0 Buffers |
| Temperature, °C | 18 | 18 | 18 | | | | | |
| Dissolved Oxygen mg/L | | | | | | | | |
| S Conductivity µS/cm | 367 | 364 | 364 | | | | OAKTON | 1413 498 |
| Turbidity ☐ NTU | | | | | | | | |
| Color/Tint | NO | NO | NO | | | | | |
| Odor | NO | NO | NO | | | | | |
| | | | | | | | | |

Record time purging starts and ends in "Purging Start" and "Purging End" columns in Water Level Data section. Cum. Vol. Purged: cumulative volume removed before sampling, in gallons or liters. Pumping Rate is gpm or Lpm, depending on box checked in casing volume calculation. Use "Final" column above for recording sample field measurements, total volume purged before sampling or average pumping rate during purging. Record equipment calibration methods, decontamination procedures, equipment failures, purge water disposal method, etc. in daily field notes. SC: Specific Conductance corrected for temperature (µS/cm at 25°C); EC: Electrical Conductivity not corrected for temperature (µS/cm). µS/cm = µmho/cm. 1 gallon (US) = 3.785 L = 0.833 Imperial gallon

**Sample Data** Sample Depth: 16.34 ☐ Grab ☐ Bailer X Pump Description:

| Field Sample ID (unique ID on bottles) | Result Code | Date (m/d/y) | Time (hh:mm) | Bottles (total to lab) | Filtered (0.45 µm) | Lab ID | Case ID | SDG ID | Remarks |
|---|---|---|---|---|---|---|---|---|---|
| W 6A | | 082508 | 0819 | 6 | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |

Sample ID may be up to 15 characters. Sample Result Code, Date, and Time must be entered. Result Codes: P0, Primary Sample; D#, Duplicate Sample; S#, Split Sample (sent to second lab); BF#, Field Blank; BR#, Equipment Rinsate; BT#, Trip Blank; SF#, Field Spike (# = 1 to 9). Lab ID (up to 5 characters) is name of laboratory that will analyze the sample. Case ID (up to 5 characters) and SDG ID (sample delivery group, up to 15 characters) are required for blanks. Case ID may be the lab service request number or yy-mm. SDG may be lab's SDG, a cooler ID number, or mmddyy. Enter sample preservation and handling data on chain-of-custody form. Also record detailed information about duplicate, split, rinsate, spike, and/or blank sample collection/handling in daily field notes.

| Sampler's Name (print) Hilgoe / Fox | Signature Bob Hilgoe |
|---|---|

# Environment 1, Inc.

| Sampled By ☑ Bob Hilgoe ☑ Bobby Fox Other: | Facility Plymouth N.C. | Site ID 6020 |
|---|---|---|
| | Project No. | Date (m/d/y) 08 25 08 |

**Site Description** X Monitoring Well ☐ Extraction Well ☐ Irrigation Well ☐ Spring ☐ Borehole ☐ Probe Other:

| | |
|---|---|
| Air Temp: 80 ☐ °C ☑ °F | Weather: CLEAR |
| Well Locked? ☑ yes ☐ no | Damaged/Repairs Needed: |
| x TOC Description: | |
| TOC Stickup: 2.25 ft. ~~above~~/below ground | Well Inside Diameter (ID): x 2-inch ☐ 4-inch Other: |
| Site Remarks (nearby wells pumping, tide, stream stage, etc.) | |

**Water Level Data** Measurement Units: ft. Well or Borehole Total Depth (TD) from TOC: 17.47

| x E-Tape, # 2 ☐ Steel Tape ☐ Other | Pre-Purge Initial | Pre-Purge Confirmation | Purging Start | During Purging | Purging End | After Sampling | Remarks |
|---|---|---|---|---|---|---|---|
| Time (hh:mm; 24-hr clock) | 1216 | 1216 | 1216 | 1218 | 1220 | 1223 | |
| Depth to Water | 14.66 | 14.66 | 14.66 | 16.73 | 17.07 | 17.10 | |
| Tape Correction | | | | | | | |
| Water Level (WL) | 14.66 | 14.66 | 14.66 | 16.73 | 17.07 | 17.10 | |
| Product Thickness | | | | | | | |
| Product Recovery ☐ gallons ☐ liters | | | | | | | |

Measure water level from fixed measuring point (MP) or top of well casing (TOC). Record water depth to nearest 0.01 ft or 0.002 m, with minus (-) sign if level is above MP or TOC. If no mark on MP or TOC, measure water level from north side of casing. Measure static or pre-purging water level twice; record initial and confirmation measurements and measurement times (in 24-hour clock format). MP/TOC Stickup measurement is from ground surface to nearest 0.1 ft or 0.01 m. Depth to Water codes: N - not measured; D - dry; O - obstructed; P - pumping; F - flowing (artesian well); R - recently pumped; C - cascading. Water Level (WL) = Depth to Water - Tape Correction factor. Record free product presence at time of water level measurement; use "S" for free product thickness if sheen observed. If free product removed from well, record volume removed in gallons or liters, list product type in "Remarks" column.

**Field WQ Data** Purge Depth: 14.66 ☐ Grab ☐ Bailer X Pump Description:

Casing Volume: [17.47 (TD) - _____ (WL)] • [_____ (Well ID)]$^2$ • [_____ (Conversion Factor)] = 0.46 gals

Conversion Factor = 0.0408 for feet and gallons; 0.1544 for feet and liters; 0.5066 for meters and liters; Well ID in inches

Well Goes Dry While Purging ☐

| ☐ Cum. Vol. Purged ☐ Pumping Rate | | | | | | (Final) | Meter Type | Remarks |
|---|---|---|---|---|---|---|---|---|
| Time (hh:mm; 24-hr clock) | 1217 | 1218 | 1220 | | | | | |
| pH (Temperature Corrected? ☐) | 4.89 | 4.82 | 4.8 | | | | OAKTON | 4.0/7.0/10.0 Buffers |
| Temperature, °C | 19 | 18 | 18 | | | | | |
| Dissolved Oxygen mg/L | | | | | | | | |
| S Conductivity µS/cm | 153 | 128 | 134 | | | | OAKTON | 1413 493 |
| Turbidity ☐ NTU | | | | | | | | |
| Color/Tint | NO | NO | NO | | | | | |
| Odor | NO | NO | NO | | | | | |
| | | | | | | | | |

Record time purging starts and ends in "Purging Start" and "Purging End" columns in Water Level Data section. Cum. Vol. Purged: cumulative volume removed before sampling, in gallons or liters. Pumping Rate is gpm or Lpm, depending on box checked in casing volume calculation. Use "Final" column above for recording sample field measurements, total volume purged before sampling or average pumping rate during purging. Record equipment calibration methods, decontamination procedures, equipment failures, purge water disposal method, etc. in daily field notes. SC: Specific Conductance corrected for temperature (µS/cm at 25°C); EC: Electrical Conductivity not corrected for temperature (µS/cm). µS/cm = µmho/cm. 1 gallon (US) = 3.785 L = 0.833 Imperial gallon

**Sample Data** Sample Depth: 17.10 ☐ Grab ☐ Bailer X Pump Description:

| Field Sample ID (unique ID on bottles) | Result Code | Date (m/d/y) | Time (hh:mm) | Bottles (total to lab) | Filtered (0.45 µm) | Lab ID | Case ID | SDG ID | Remarks |
|---|---|---|---|---|---|---|---|---|---|
| W-13 | | 08/25/08 | 1223 | 6 | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |

Sample ID may be up to 15 characters. Sample Result Code, Date, and Time must be entered. Result Codes: P0, Primary Sample; D#, Duplicate Sample; S#, Split Sample (sent to second lab); BF#, Field Blank; BR#, Equipment Rinsate; BT#, Trip Blank; SF#, Field Spike (# = 1 to 9). Lab ID (up to 5 characters) is name of laboratory that will analyze the sample. Case ID (up to 5 characters) and SDG ID (sample delivery group, up to 15 characters) are required for blanks. Case ID may be the lab service request number or yy-mm. SDG may be lab's SDG, a cooler ID number, or mmddyy. Enter sample preservation and handling data on chain-of-custody form. Also record detailed information about duplicate, split, rinsate, spike, and/or blank sample collection/handling in daily field notes.

| Sampler's Name (print) H. Logoe / Fox | Signature Bob H Logoe |
|---|---|



Date Entered into Database _____ By _____