

May 5, 2022

Mark Baldi
Deputy Regional Director Bureau of Waste Site Cleanup
Central Regional Office
Massachusetts Department of Environmental Protection
8 New Bond Street
Worcester, MA 01606

**RE: Immediate Response Action (IRA) Update Letter No. 4
Massachusetts Natural Fertilizer
65 Bean Porridge Road
Westminster, MA
MassDEP RTN: 2-0021866**

Dear Mr. Baldi:

The following IRA response actions have been performed for the above referenced RTN.

WEEK OF APRIL 29, 2022 – May 6, 2022

Site Wide Plan

LEI has drafted the attached site wide plan. This site wide plan depicts properties within the current study area served by private wells. Total PFAS concentrations indicated for each property with completed laboratory analysis. A table depicting PFAS 6 concentrations for these properties is also attached. The Figure will be updated weekly as new data become available.

Materials Stockpile Results

As detailed last week, LEI has conducted initial, synoptic sampling of materials at MNF. The table submitted last week had an error and we have attached a corrected table.

Laboratory Results Received on April 29, 2022

On the afternoon of April 29, 2022, LEI received laboratory analytical results from the following private wells:

- 42 Bean Porridge Hill Road
- 4 White Pine Drive
- 31 White Pine Drive
- 16 White Pine Drive
- 15 Rock Maple Lane
- 32 White Pine Drive
- 26 White Pine Drive
- 28 White Pine Drive
- 11 Rock Maple Lane

Laboratory results indicate PFA6 concentrations in excess of the both the applicable MassDEP Drinking Water and Imminent Hazard thresholds.

Laboratory Results Received on May 3, 2022

On May 3, 2022, LEI received drinking water results for the following properties:

- 11 White Pine Drive
- 12 White Pine Drive
- 20 White Pine Drive
- 26 White Pine Drive
- 29 White Pine Drive

Laboratory results indicate PFA6 concentrations in excess of the both the applicable MassDEP Drinking Water and Imminent Hazard thresholds.

Sample Collection Activities

On May 4, 2022, LEI collected drinking water samples from:

- 3 Amber Road
- 21 Rock Maple Lane

LEI also attempted to collect a water sample from the private well located at 16 Amber Road, however, no one was home at the time. On May 4th, LEI collected a surface water sample from a stream located behind 20 White Pine Drive. LEI also collected an influent, midpoint and effluent water sample from the treatment system installed at 72 Bean Porridge Hill Road. This sample collection was performed to assess general well chemistry because of odor or discoloration reported by the Resident.

Laboratory Handling Issue

On 5/5/22, LEI was notified by Alpha Analytical of label failure on some of the samples collected on April 28th. LEI is scheduling re-sampling for the following residences:

- 1 Amber Road
- 2 Amber Road
- 4 Amber Road
- 14 Amber Road
- 99 S. Ashburnham Road

Pending Lab Results

LEI contacted Alpha Laboratories requesting the due dates of pending analytical results. Laboratory results are expected for the following lab reports from Alpha.

L2219804 has a due date of May 6 for the following addresses:

- 1 Rock Maple Lane
- 2 Rock Maple Lane
- 5 White Pine Drive
- 46 Bean Porridge Hill Rd.
- 22 White Pine Drive
- 23 White Pine Drive
- 23 Rock Maple Lane
- 150 Bean Porridge Hill Rd.

L2221194 has a due date of May 13 for the following addresses:

- 11 Amber Road
- 6 Amber Road
- 33 White Pine Drive
- Stream behind 6 Amber Road

L2223520 has a due date of May 18 for the following address:

- 72 Bean Porridge Hill Road (general well chemistry only)

POET System Installations

- This week (as of 5/4/22) 1 POET system was installed at 4 White Pine Drive
- As of 5/4/22, 7 total POET systems have been installed.
- POET installations for 13 properties with laboratory results from 4/29 and 5/3 are being scheduled with installations anticipated to begin on 5/6/22.

Remaining Private wells to be sampled as of May 4, 2022: (see Spreadsheet)

Access has not been provided for the following properties:

- Amber Road: 8, 10, 12, 15
- White Pine Drive: 13, 18, 19, 24,
- Rock Maple Lane: 13, 8, 21, 24
- 5 Taymax Road
- Bean Porridge Hill Rd. : 98, 100, 104

The most recent Access Agreement List provided by Lawson & Weitzen (attached)

Private Well Sampling Summary

The following is a summary of the private well sampling effort:

- Access has been requested for private wells at 58 residences.
- Access has been provided for 43 residences
- A total of 42 private wells were sampled as of May 4th.

Bottled Water

Bottled water deliveries are continuing for all addresses on White Pine Drive, Rock Maple Lane, and Amber Road. Bottled water is also being provided for certain addresses on Bean Porridge Hill Road.

Web-based Survey

A web-based survey of residents is being developed and deployed with the intent to capture information regarding potential receptors at residences; information regarding existing water treatment; and existence of privately generated laboratory results on general well parameters and PFAS compounds.

These response actions and activities are the latest performed for the IRA as of May 5, 2022. If you have any questions, please call Lawrence Lessard, at (978) 338-5541.

Sincerely,

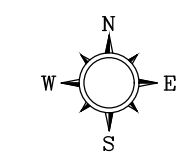
A handwritten signature in blue ink that reads "Michael Backunas". The signature is fluid and cursive, with the first name "Michael" and last name "Backunas" clearly legible.

Michael Backunas
Senior Project Manager

Attachments

Sitewide Plan
Data Tables

FILENAME: 3291_2202_NEWDMG
 DRAWN BY: ICD
 5/05/2022
 CHECKED BY:
 APPROVED BY:
 PROJECT NUMBER: 3291



LEGEND	
1	Rock Maple Lane
2	Rock Maple Drive
3	Rock Maple Drive
4	Rock Maple Drive
5	Rock Maple Lane
6	11 Rock Maple Lane
7	15 Rock Maple Lane
8	18 Rock Maple Lane
9	21 Rock Maple Lane
10	22 Rock Maple Lane
11	23 Rock Maple Lane
12	24 Rock Maple Lane
13	5 Bean Porridge Hill Road
14	11 Bean Porridge Hill Road
15	16 Bean Porridge Hill Road
16	42 Bean Porridge Hill Road
17	46 Bean Porridge Hill Road
18	64 Bean Porridge Hill Road
19	65 Bean Porridge Hill Road
20	66 Bean Porridge Hill Road
21	67 Bean Porridge Hill Road
22	68 Bean Porridge Hill Road
23	70 Bean Porridge Hill Road
24	72 Bean Porridge Hill Road
25	98 Bean Porridge Hill Road
26	100 Bean Porridge Hill Road
27	104 Bean Porridge Hill Road
28	150 Bean Porridge Hill Road
29	209 Bean Porridge Hill Road
30	1 Amber Road
31	2 Amber Road
32	3 Amber Road
33	4 Amber Road
34	5 Amber Road
35	6 Amber Road
36	8 Amber Road
37	10 Amber Road
38	11 Amber Road
39	12 Amber Road
40	14 Amber Road
41	15 Amber Road
42	16 Amber Road
43	1 White Pine Drive
44	3 White Pine Drive
45	4 White Pine Drive
46	5 White Pine Drive
47	7 White Pine Drive
48	8 White Pine Drive
49	9 White Pine Drive
50	10 White Pine Drive
51	11 White Pine Drive
52	12 White Pine Drive
53	13 White Pine Drive
54	14 White Pine Drive
55	16 White Pine Drive
56	18 White Pine Drive
57	19 White Pine Drive
58	20 White Pine Drive
59	22 White Pine Drive
60	23 White Pine Drive
61	24 White Pine Drive
62	26 White Pine Drive
63	28 White Pine Drive
64	29 White Pine Drive
65	30 White Pine Drive
66	31 White Pine Drive
67	32 White Pine Drive
68	33 White Pine Drive
69	37 White Pine Drive
70	38 White Pine Drive
71	5 Taymax Road
72	99 Ashburnham Road

5736.9 PFAS6 Concentrations

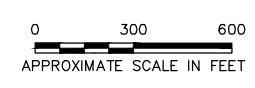


FIGURE 2
 SITE AREA MAP

MASS NATURAL FERTILIZER CO.
 65 BEAN PORRIDGE HILL RD.
 WESTMINSTER, MASSACHUSETTS

PFAS6 Water Results
65 Bean Porridge Road
Westminster, MA

Sample Location	Sample Type	Sample Date	PFHpA	PFHxS	PFOA	PFNA	PFOS	PFDA	PFAS 6 Total
42 BPH	DW-Inf	4/12/22	35.6	0.72	116.0	18.4	171.0	0.72	342.4
64 BPH	DW-Inf	4/6/22	71.0	1.1	221.0	72.4	932.0	3.1	1300.6
65 BPH	DW-Inf	3/30/22	1420.0	17.4	3190.0	216.0	820.0	73.5	5736.9
65 BPH Pond	SW	3/30/22	121.0	2.4	297.0	25.1	114.0	11.3	570.8
66 BPH	DW-Inf	4/6/22	66.6	1.1	203.0	62.8	849.0	2.7	1185.2
67 BPH	DW-Inf	3/30/22	123.0	1.8	320.0	120.0	734.0	5.6	1304.4
68 BPH	DW-Inf	4/6/22	48.7	0.9	189.0	46.1	548.0	1.6	834.3
70 BPH	DW-Inf	3/30/22	39.8	0.7	122.0	18.7	202.0	0.7	383.9
72 BPH	DW-Inf	4/6/22	79.8	1.0	244.0	113.0	1930.0	6.4	2374.2
4 WPD	DW	4/12/22	83.9	1.2	263.0	99.9	1580.0	4.7	2032.7
11 WPD	DW	4/18/22	65.7	1.13	199.0	30.4	383.0	1.3	680.6
12 WPD	DW	4/18/22	17.8	0.71	121.0	17.4	273.0	0.8	430.7
16 WPD	DW	4/12/22	16.9	0.0	51.2	6.7	79.2	0.0	154.0
20 WPD	DW	4/18/22	45.2	0.71	111.0	13.6	154.0	0.0	324.5
26 WPD	DW	4/13/22	27.9	0.69	83.2	11.1	133.0	0.0	255.9
26 WPD	DW	4/18/22	21.5	0.00	57.1	7.1	89.9	0.0	175.6
28 WPD	DW	4/13/22	25.5	0.0	80.4	8.8	110.0	0.0	224.7
29 WPD	DW	4/18/22	73.8	1.15	224.0	51.2	598.0	4.8	953.0
31 WPD	DW	4/12/22	62.7	1.13	190.0	29.6	293.0	0.82	577.3
32 WPD	DW	4/13/22	52.7	0.93	136.0	25.0	243.0	1.2	458.8
11 RML	DW	4/13/22	8.5	0.0	23.1	4.2	61.1	0.0	96.9

BPH-Bean Porridge Road
WPD-White Pine Drive
RML-Rock Maple Lane

MNF Material Sampling Results for PFAS 6 Compounds

Sample Location	Sample Type	Sample Date	PFHpA	PFHxS	PFOA	PFNA	PFOS	PFDA
SP-1	Solid	3/31/22	ND	ND	ND	ND	6.8	ND
SP-2	Solid	3/31/22	ND	ND	2.0	ND	4.9	ND
SP-3	Solid	3/31/22	ND	ND	2.3	ND	5.8	ND
SP-4	Solid	3/31/22	ND	ND	ND	ND	3.8	ND
SP-5	Solid	3/31/22	ND	ND	ND	ND	9.6	ND
SP-6	Solid	3/31/22	ND	ND	2.1	ND	5.7	ND
FP-1	Solid	3/31/22	5.26	ND	16.9	6.8	35.6	21.0
FP-2	Solid	3/31/22	5.0	ND	14.3	5.0	23.1	12.8
FP-3	Solid	3/31/22	NM	ND	NM	1.9	9.4	2.4
FP-4	Solid	3/31/22	3.3	ND	10.6	3.8	20.2	9.7
Mass DEP Soil Reportable Concentrations*								
Reportable Concentration S-1			0.50	0.30	0.72	0.32	2.00	0.30
Reportable Concentration S-2			400	400	400	400	400	400
Mass DEP Soil Standards*								
S-1/GW-1			0.50	0.30	0.72	0.32	2.00	0.30
S-1/GW-2			300	300	300	300	300	300
S-1/GW-3			300	300	300	300	300	300
S-2/GW-1			0.50	0.30	0.72	0.32	2.00	0.30
S-2/GW-2			400	400	400	400	400	400
S-2/GW-3			400	400	400	400	400	400
S-3/GW-3			0.50	0.30	0.72	0.32	2.00	0.30
S-3/GW-3			400	400	400	400	400	400
S-3/GW-3			400	400	400	400	400	400

Units of measure are parts per billion.

**Note: Sampled material is not soil. Comparison to Reportable Concentrations and Soil Standards is anecdotal.*

**Massachusetts Natural Fertilizer
Site Access Agreements
As of 5/5/22**

Access Agreements for Sampling

Name	Address	Status	Date Sent	Date Signed	Sampled	Results Rec'd
1. Brayan Aleman and Arielle Aleman	15 Rock Maple Lane	Signed	3/29/2022	4/2/2022	4/12/22	
2. Steven P. Hecker	42 Bean Porridge Hill Road	Signed	3/30/2022	4/4/2022	4/12/22	Yes
3. Edward Lyonnais and Melissa Lyonnais	46 Bean Porridge Hill Road	Signed	3/30/2022	4/6/2022	4/14/22	
4. Kofi Ansah and Yvonne Ansah	2 Rock Maple Lane	Sent	3/29/2022		4/14/22	
5. Paul Bartkus and Doris Bartkus	5 White Pine Drive	Signed *Modified*	3/29/2022	4/11/2022	4/14/22	
6. Steven P. Burt and Michelle Burt	16 Amber Road	Signed	3/30/2022	4/19/2022		
7. Michael and Alana Sunderland	11 Bean Porridge Hill Road	Sent/Reviewing Agreement	4/14/2022			
8. Anthony Costella and Amanda Costella	37 White Pine Drive	Sent	New owner is Erin Irizarry (see below)		4/21/22	
9. Daniel and Siobhan Bartkus	150 Bean Porridge Hill Road	Signed *Modified*	3/29/2022	4/11/2022	4/14/22	
10. Tianzhi Fan and Ling Wang	5 Taymax Road	Sent	3/30/2022			
11. Lori Fiandaca	31 White Maple Lane	Signed	3/30/2022	4/8/2022	4/12/22	Yes
12. Jorge Gonzalez and Cristina Gonzalez	1 Rock Maple Lane	Sent	3/30/2022		4/14/22	
13. John W & Josephine Grant Trust	15 Amber Road	Sent/Reviewing Agreement	3/30/2022			
14. Darcy Linnus	100 Bean Porridge Hill Road	Sent	3/30/2022			
15. Norma Avelar and Savik Luy	29 White Pine Drive	Signed	3/30/2022	4/14/2022	4/28/22	Yes
16. Peter Marashio and Beth Marashio	7 Rock Maple Lane	Signed	3/30/2022	4/13/2022	4/21/22	

17. Danielle and Thomas Membrino	11 Rock Maple Lane	Signed	3/30/2022	4/12/2022	4/13/22	Yes
18. Nansy Swanson	104 Bean Porridge Hill Road	Sent	3/30/2022			
19. Timothy Tarr and Maureen Tarr	6 Rock Maple Drive	Signed	3/30/2022	4/19/2022	4/21/22	
20. Danielle Vallera and Kaitlin Vallera	12 Amber Road	Sent	3/30/2022			
21. Mark Jr. Wyman and Sara Wyman	18 Rock Maple Lane	Sent	3/30/2022			
22. Traditional Concepts, Inc./Carrie-Ann Carlson	4 White Pine Drive	Signed	4/7/2022	4/8/2022	4/12/22	
23. Michael Conti	12 White Pine Drive and 14 White Pine Drive	Signed	4/13/2022	4/15/2022	4/21/22	Yes
24. Matthew Elliott	23 White Pine Drive	Signed	4/12/2022	4/12/2022	4/14/22	
25. Michael Ferris and Marina Muehlke	32 White Pine Drive	Signed	4/12/2022	4/13/2022	4/13/22	
26. Ashley Rodgers	9 White Pine Drive	Signed	4/12/2022	4/15/2022	4/21/22	
27. Kate Duffy	18 White Pine Drive	Signed	4/12/2022	4/18/2022	4/21/22	
28. Aimee Martinez	16 White Pine Drive	Signed	4/11/2022	4/11/2022	4/12/22	Yes
29. Deborah and Charles Hooper	14 Amber Road	Signed	4/12/2022	4/22/2022	4/28/22	
30. Tina and Scott Ladue	11 Amber Road	Signed	4/12/2022	4/20/2022	4/21/22	
31. Amanda Zalegowski	20 White Pine Drive	Signed	4/13/2022	4/15/2022	4/28/22	Yes
32. Lucas Wafer	22 Rock Maple Lane	Signed	4/13/2022	4/13/2022	4/28/22	
33. Elizabeth and Thomas Ferrick	5 Amber Road	Signed	4/13/2022	4/14/2022	4/21/22	
34. Jesse and Stacey Sutela	6 Amber Road	Signed	4/13/2022	4/19/2022	4/21/22	
35. Derek Brasili	3 Amber Road	Signed	4/13/2022			
36. Patricia Eidinger	4 Amber Road	Signed	4/13/2022	4/22/2022	4/28/22	
37. Michaela Montecalvo	28 White Pine Drive	Signed	4/9/2022	4/12/2022	4/13/22	Yes
38. Nancy Moz	26 White Pine Drive	Signed	4/12/2022	4/12/2022	4/13/22	Yes
39. Ross Montolio	14 White Pine Drive	Signed	4/13/2022	4/21/2022	4/21/22	
40. Margaret Bujald	98 Bean Porridge Hill Road	Signed	4/13/2022	4/25/22		
41. Talya Marshall	13 White Pine Drive	Sent	4/14/2022	5/2/22		
42. Oksana Zavidij	24 Rock Maple Lane	Sent	4/14/2022			
43. Jamison and Andrea Yi	38 White Pine Drive	Signed	4/14/2022	4/17/2022	4/21/22	
44. Michael Wood	11 White Pine Drive	Signed	4/14/2022	4/17/2022	4/28/22	Yes
45. Marie Madhere	33 White Pine Drive	Signed	4/14/2022	4/17/2022	4/21/22	

46. Konstantin Zhuravlyov	21 Rock Maple Lane	Sent	4/19/2022			
47. John and Melody Perea	24 Rock Maple Lane	Sent	4/19/2022			
48. Moncrieffe and Thessamar Wentworth	38 White Pine Drive	Sent	4/19/2022		4/21/22	
49. Khalid Benhar and Assia Moslih	24 White Pine Drive	Sent	4/19/2022			
50. Christopher Primeau and Tricia Khan	19 White Pine Drive	Sent	4/20/2022			
51. Nabila and Nagy Bishara	2 Amber Road	Sent	4/20/2022		4/28/22	
52. Michele and Vincent Miola	1 Amber Road	Signed – does not approve installation of filter	4/20/2022	4/23/2022	4/28/22	
53. Brian and Emily Morin	8 Amber Road	Sent	4/20/2022			
54. Tammy Hawkins and Robert Behringer	10 Amber Road	Sent	4/20/2022			
55. David H. Smith	22 White Pine Drive	Sent	4/19/2022		4/21/22	
56. Erin Irizarry	37 White Pine Drive	Signed	4/20/2022	4/21/2022	4/21/22	
57. Blaine Brennecke	3 Rock Maple Lane	Signed	4/21/2022	5/2/22		
58. Donald Seifert	99 South Ashburnham Road	Sent	2/22/2022		4/28/22	
59. Golf Course	23 Rock Maple Lane				4/14/22	

Access Agreements for Carbon Filters

Name	Address	Status	Date Sent	Date Signed
59. Salvatore Albert and Wendy Albert	66 Bean Porridge Hill Road	Signed	3/24/2022	3/30/2022
60. Sean M. Gallagher and Ashley A. Sultan	68 Bean Porridge Hill Road	Signed	3/24/2022	3/29/2022
61. Joseph and Helen Gannon	72 Bean Porridge Hill Road	Signed	3/18/2022	3/29/2022
62. Timothy W. Maus and Lauren Opie	67 Bean Porridge Hill Road	Signed	3/18/2022	3/23/2022
63. William R. Michalowski and Nicol Michalczyk	70 Bean Porridge Hill Road	Signed	3/18/2022	
64. Thomas E. Ryan and Susan M. Ryan	64 Bean Porridge Hill Road	Signed	3/18/2022	3/25/2022