

CLG MEETING – MARCH 2022

ODOUR PERFORMANCE

REVIEW



TABLE OF CONTENTS

- 1. 2021 CLG Meeting Minutes.**
- 2. Current Odour Complaint Trends and Proposed Corrective Actions.**
- 3. Rendering Plant Upgrades and Proposed Changes.**
- 4. Odour Complaint Register.**
- 5. RenderTech Action List.**

1. 2021 CLG Meeting Minutes

AFFCO IMLAY

COMMUNITY LIAISON GROUP MEETING – MARCH 2021

Date of Meeting: 31.03.21

Present: Dean Tucker (AFFCO Operations Manager); David Berry (Imlay Plant Manager); Ricky Gowan (Imlay Compliance Manager); Caleb Smith (Horizons); Stephen Bryson; Lonia Sarniak; Barbara Allan; Graham Pearson.

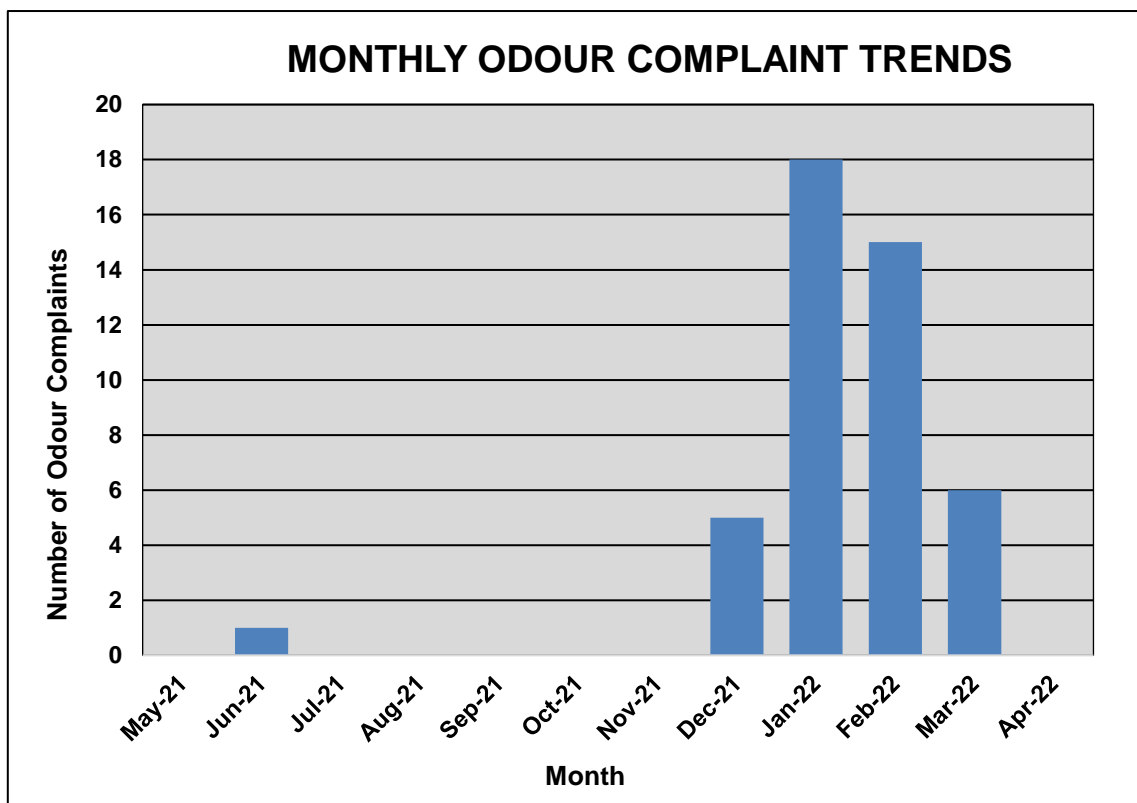
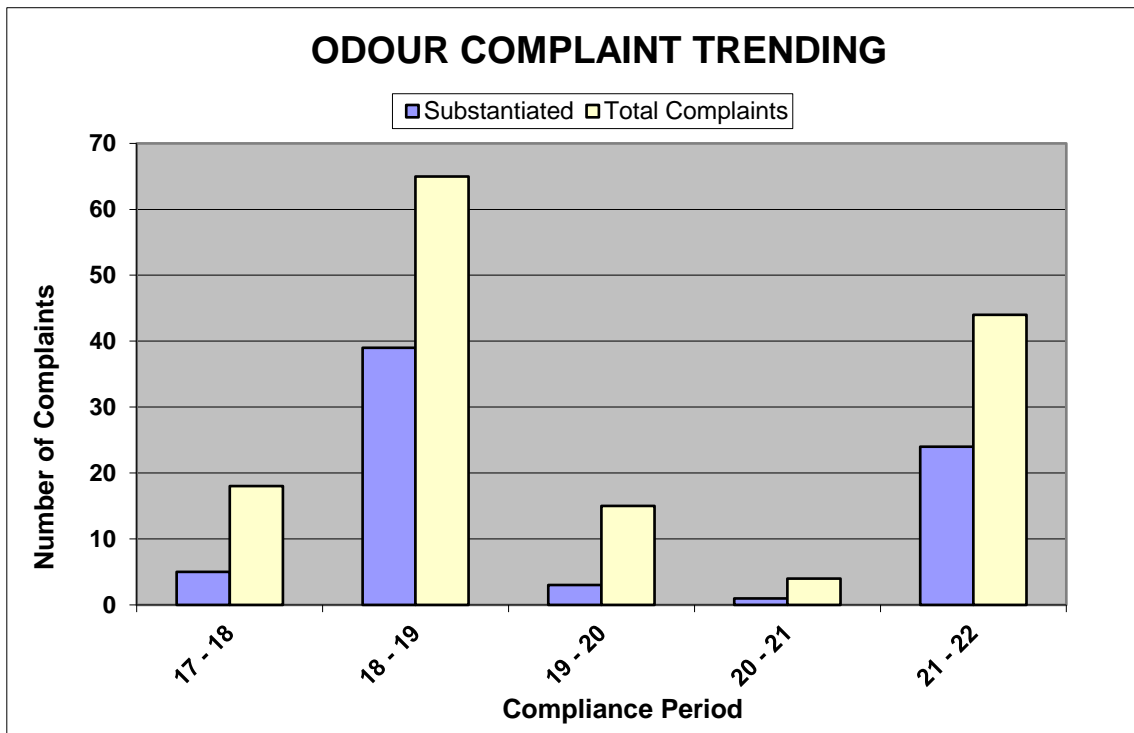
Apologies :-

ACTIONS AGREED:

| Subject | Action |
|--|--|
| <p>Topics of Discussion and Agreed Actions</p> | <p>Meeting Agenda:</p> <ul style="list-style-type: none"> • CLG Meeting Odour Performance Review. • 2019 CLG Meeting Minutes. • Odour Complaint Registers for 2019 / 2020 and 2020 / 2021 periods. • Odour Complaint Trending. • Points of Interest • Contributing Factors. <p>Minutes:</p> <p>Tabled Odour Performance Review document and discussed content.</p> <p>Barbara Allen highlighted that the associated minutes were not the most recent minutes. It was stated that the attached minutes were from the previous scheduled annual CLG Meeting and not the special meeting minutes held in August 2019.</p> <p>A question was asked in regard to the odour investigation process. Caleb Smith (Horizons) explained Horizons procedures when a complaint is lodged and how communication with AFFCO Imlay representatives is carried out. Caleb also explained how the FIDOL assessment system worked in relation to assessing odour complaints. Ricky Gowan (AFFCO Imlay) described AFFCO Imlay's response procedures.</p> <p>Graham Pearson requested that 'Time of Complaint' and 'Investigation Time' be added to the Complaints Register. Ricky Gowan (AFFCO Imlay) agreed to do this.</p> <p>Barbara Allen suggested that a summary of performance be displayed on AFFCO's website detailing positive results for annual reporting periods. This will be actioned in the form of annual Odour Performance Review documents being uploaded onto the website.</p> <p>Stephen Bryson and Lonia Sarniak raised the issue of Open Country odours. They wanted to know the process for lodging Open Country odours. Caleb Smith (Horizons) passed on advice and actions to take for lodging such complaints.</p> <p>Meeting closed 18:45. Thanks to all those who attended.</p> |

2. Current Odour Complaint Trends and Proposed Actions

| Compliance Period | 17 - 18 | 18 - 19 | 19 - 20 | 20 - 21 | 21 - 22 |
|-------------------|---------|---------|---------|---------|---------|
| Substantiated | 5 | 39 | 3 | 1 | 24 |
| Total Complaints | 18 | 65 | 15 | 3 | 45 |



Points of Interest:

1. Significant increase in odour complaints for current period.
2. Majority of substantiated odour complaints occurring during 'high risk' months (January / February / March).

Contributing Factors:

1. December 2021 odours: Manawatu flood resulting in out of spec product from AFFCO Manawatu.
2. An increase in mechanical breakdowns: Outside raw bin; Main Water Pump; Main drive units from Outside Raw Bin; Main Pre-Breaker. The breakdown on the 21st of January 2022 – outside raw bin screw drive units – resulted in 9 odour complaints; The Pre-breaker breakdown on the 1st of February 2022 – resulted in 3 odour complaints. All mechanical breakdowns are reported to Horizons as per Consent conditions.
3. January / February 2022 odours: Taranaki By-products fire. Raw product diverted to Imlay from Alliance, Hawera and Eltham. Work in progress in terms of getting that raw product to spec.
4. Alliance product diverted and not accepted 20.01.22 onwards.

Proposed Corrective Actions

- Appoint a fulltime fitter for the Rendering Plant to carryout mechanical preventative maintenance. **Completed March 2022.**
- Visible fuming from Dryers:- New control measures to the Stickwater Tank will minimise fugitive odours leaking from Dryers. **Target Date for completion:- 02.04.22.**
- External Audits from Rendering Specialist Consultants:- RenderTech and KupeTech to carryout audits of the Rendering Plant focusing on the existing extractions system. RenderTech audit:- **Completed March 2022 (refer Action List – Section 5);** KupeTech audit:- **Completed March 2022. Awaiting full report.**
- Diverting raw material that doesn't meet consent requirements. Rendering Supervisor is fully aware of consent limits.
- Add an additional 250m³ of bark added to the main bio filter. **Completed March 2022.**
- Add an additional 15m³ of bark added to the covered bio filter. **Completed March 2022.**

3. Rendering Plant Upgrades and Proposed Changes

Rendering Plant Upgrades

1. August 2021: New Rendering Plant roof installed.
2. February 2022: New Pre-breaker installed.
3. March 2022: New Squeeze Press covers installed.

Proposed Changes:-

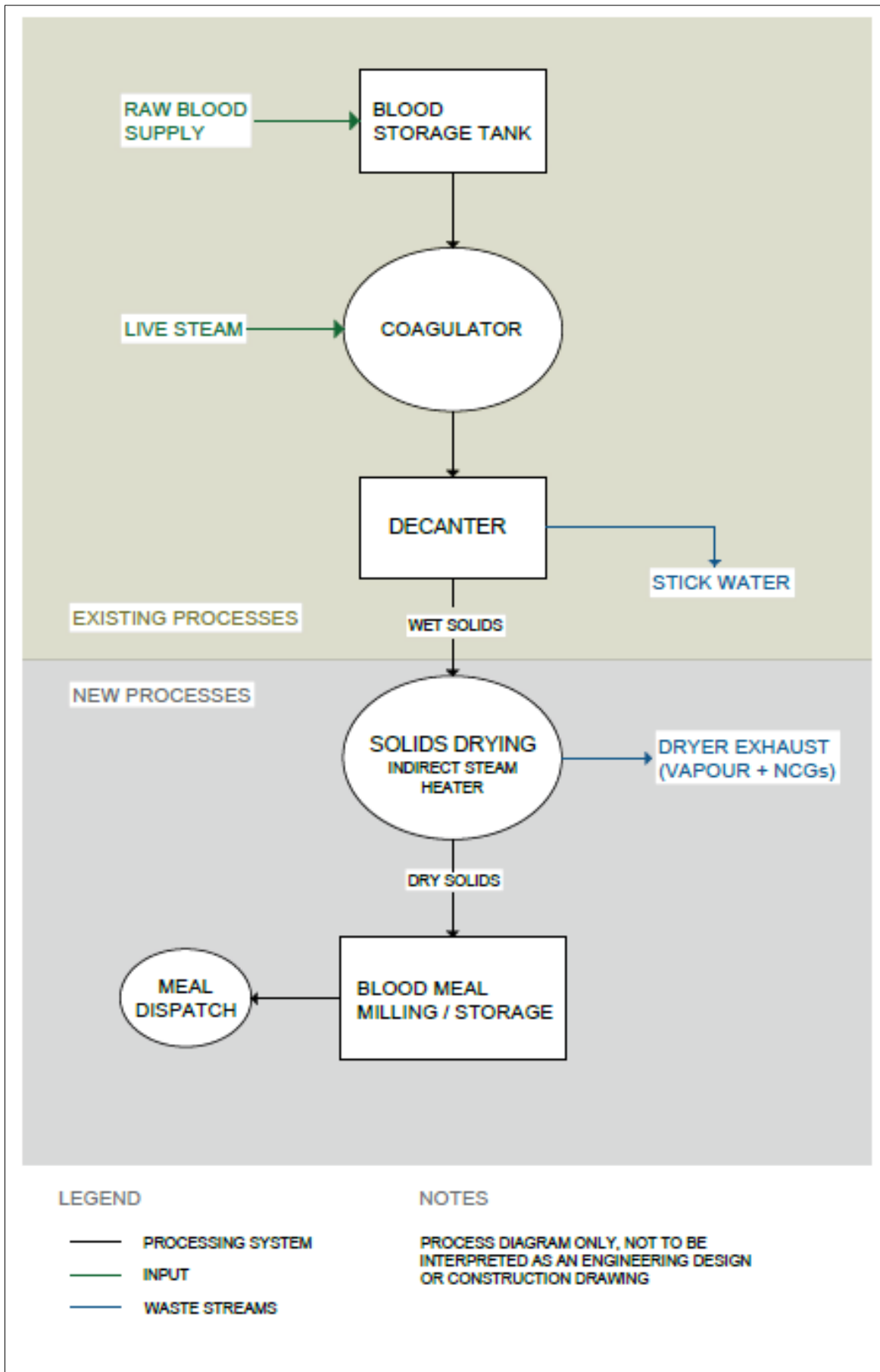
New Blood Drying Process

1. New larger blood decanter proposed with higher capacity of 4.5 T/day.
2. Main processing stages involve existing processes at a higher rate including:-
 - a) Blood storage.
 - b) Raw blood coagulation (via live steam injection).
 - c) Decanting / dewatering of coagulated solids.

Additional processing stages including:-

3. Wet solids drying via a new indirect steam heated dryer
4. Meal milling/storage and dispatch

A basic process flow diagram is provided on the next page.



4. Odour Complaint Register

2021 – 2022 Reporting Period

| Nº | NAME | ADDRESS | DATE | TIME REPORTED | TIME OF INVESTIGATION | COMMENTS | SUBSTANTIATED (Ours) | UNSUBSTANTIATED |
|----|-----------------------------------|-------------------|----------|---------------|-----------------------|--|----------------------|------------------|
| 1 | Christina Maroc (Horizons) | Not given. | 14.06.21 | 8:17 | 8:25 | Investigated odour complaint. Rendering Plant not operating. No odours. Wind direction: Very slight breeze blowing towards river and away from residential area. Odour unsubstantiated.. | | ✓ |
| 2 | Ruben Davis | 51 Balgownie Ave | 10.12.21 | 21:30 | N/A | Council rang odour phone on behalf of a complaint made by Ruben Davis. Night Shift Production Manager - Greg Stanley - yet to be trained in the procedure of following up on an odour complaint. Training to be carried out 13.12.21 | Not investigated | Not investigated |
| 3 | Contractors working on Beach Road | Beach Road | 14.12.21 | 14:51 | 15:07 | Council (Ross Bidlake) rang at 14:50 stating that he had received odour complaints from contractors working in Beach Road. They stated that odours had been occurring since 7.30am. Odour assessment carried out. Odour substantiated. (NOTE: Out of spec product delivered from ME32 due to flooding) | ✓ | |
| 4 | Sandi Black | 71 Bignell Street | 14.12.21 | 19:45 | 19:45 | Complainant stated that the smell was like a burnt boil up. Odour substantiated. (NOTE: Out of spec product delivered from ME32 due to flooding). | ✓ | |
| 5 | Joyce Billington | 41a Swiss Ave | 14.12.21 | 20:00 | 20:10 | Bad smell coming from Imlay. Odour substantiated. (NOTE: Out of spec product delivered from ME32 due to flooding) | ✓ | |
| 6 | Tony & Pat Marsh | 10 Balgownie Ave | 15.12.21 | 16:35 | 16:43 | Meat meal smell coming from Imlay. Odour substantiated. The odour was caused by a mechanical breakdown of the main water pump (water is used to cool down air extracted from the rendering plant). | ✓ | |

| Nº | NAME | ADDRESS | DATE | TIME REPORTED | TIME OF INVESTIGATION | COMMENTS | SUBSTANTIATED (Ours) | UNSUBSTANTIATED |
|----|--|---------------------|----------|---------------|-----------------------|--|----------------------|------------------|
| 7 | John Lawson | 16a Bignell Street | 08.01.22 | 10:49 | 11:00 | Odour coming from lmlay strong meat smell. Odour unsubstantiated. | | ✓ |
| 8 | Colin Withers | 39 Balgownie Ave | 21.01.22 | 10:55 | 11:05 | Rotten meat / vomit smell. Odour substantiated. Caused by a significant breakdown in the Rendering Plant on that day. Horizons advised. | ✓ | |
| 9 | Peter Winters | 4 Wordsworth Street | 21.01.22 | 11:15 | 11:20 | Rotten meat / vomit smell. Odour substantiated. Caused by a significant breakdown in the Rendering Plant on that day. Horizons advised. | ✓ | |
| 10 | Horizons - complainants name and address not given | Kings Ave | 21.01.22 | 19:49 | N/A | Horizons rang at 19:49 for a complaint made at 17:55. No investigation carried out due to late complaint. NOTE: There was a significant breakdown in the Rendering Plant on that day. Horizons advised. | Not investigated | Not investigated |
| 11 | Horizons - complainants name and address not given | Swiss Ave | 21.01.21 | 22:47 | N/A | Horizons rang back after first complaint was made at 19:49 (as above). No investigation carried out due to late complaint. NOTE: There was a significant breakdown in the Rendering Plant on that day. Horizons advised. | Not investigated | Not investigated |
| 12 | John Lawson | 16a Bignell Street | 22.01.22 | 12:10 | 12:25 | Rotten offal smell. Odour substantiated. NOTE: Product being delivered from Alliance, Hawera and Eltham due to fire at Taranaki Byproducts. | ✓ | |
| 13 | Horizons (complainants name and address not given) | Heads Road | 22.01.22 | 12:45 | 12:48 | Rendering offal smell. Odour substantiated. NOTE: Product being delivered from Alliance, Hawera and Eltham due to fire at Taranaki Byproducts. | ✓ | |
| 14 | Brent Caudwell | 18 Caius Ave | 22.01.22 | 13:15 | 13:15 | Offal waste smell coming from lmlay. Odour substantiated. NOTE: Product being delivered from Alliance, Hawera and Eltham due to fire at Taranaki Byproducts. | ✓ | |
| 15 | Patty O'dea | 200 Heads Road | 22.01.22 | 13:45 | 13:58 | Burnt bones and hair smell. Odour substantiated. NOTE: Product being delivered from Alliance, Hawera and Eltham due to fire at Taranaki Byproducts. | ✓ | |

| Nº | NAME | ADDRESS | DATE | TIME REPORTED | TIME OF INVESTIGATION | COMMENTS | SUBSTANTIATED (Ours) | UNSUBSTANTIATED |
|----|--|---------------------|----------|---------------|-----------------------|--|----------------------|------------------|
| 16 | Peter Winters | 4 Wordsworth Street | 22.01.22 | 15:00 | 15:15 | Rotten meat smell coming from Imlay. Odour substantiated. NOTE: Product being delivered from Alliance, Hawera and Eltham due to fire at Taranaki Byproducts. | ✓ | |
| 17 | Horizons (complainants name and address not given. Complaint made 25.01.22). | Heads Road | 25.01.22 | 18:30 | N/A | Horizons emailed Imlay Compliance Manager 26.01.22 regarding complaint made on the 25.01.22. No investigation carried out. Complainant stated that the smell started around 17:00 and was still strong at 18:30. Rated 5/6. Ongoing for two weeks and very bad over weekend just gone. | Not investigated | Not investigated |
| 18 | Horizons (complainants name and address not given. Complaint made 27.01.22 at 12:00) | Heads Road | 27.01.22 | 12:00 | 12:00 | Odour detected by Compliance Manager along Heads Road at the same time the Plant Manager was receiving a call from Horizons. Investigated at 256 Heads Road (corner of Abbott Street and Heads Road). Odour substantiated. | ✓ | |
| 19 | Fran Haira | 41a Bignell Street | 27.01.22 | 13:05 | 13:20 | Strong smell coming from Imlay. Investigated as part of the Compliance Managers reassessment from odour detected at 12:00. Odour substantiated. | ✓ | |
| 20 | Horizons (complainant contacted Horizons - 270 Heads Road). | 270 Heads Road | 27.01.21 | 18:05 | 18:20 | Strong smell coming from Imlay 4/6. Investigated by Night Shift Production Supervisor. Rated an Open Country odour (Lactose smell – sweet sickly smell). | | ✓ |
| 21 | Horizons (complainant contacted Horizons - 270 Heads Road). | 270 Heads Road | 27.01.21 | 20:15 | 20:25 | Strong smell coming from Imlay and has been since 19:00. Investigated by Night Shift Production Supervisor. Odour substantiated but not deemed objectionable (Most likely a stockyards smell). | ✓ | |
| 22 | Dean Holden | 270 Heads Road | 28.01.22 | 14:22 | 14:35 | Strong burning smell coming from Imlay. Investigated by Night Shift Production Supervisor. Odour unsubstantiated. Odour traced back to Leamington Street (burning plastic smell). | | ✓ |
| 23 | Patty O'dea | 200 Heads Road | 29.01.22 | 11:18 | 12:05 | Smell coming from Imlay. Smells like burning hair. Odour substantiated (Constant stale cooking smell). On-going review of quality of product being delivered form Hawera and Eltham due to fire at Taranaki Byproducts. | ✓ | |

| Nº | NAME | ADDRESS | DATE | TIME REPORTED | TIME OF INVESTIGATION | COMMENTS | SUBSTANTIATED (Ours) | UNSUBSTANTIATED |
|----|---|---------------------|----------|---------------|-----------------------|---|----------------------|-----------------|
| 24 | Horizons (complainant contacted Horizons - Ben - 16 Balgownie Ave). | 16 Balgownie Ave | 29.01.22 | 14:45 | 15:05 | Rotten meat smell coming from Imlay. Odour unsubstantiated. No odour at time of FIDOL Assessment. | | ✓ |
| 25 | Maria Holden | 270 Heads Road | 01.02.22 | 16:00 | 16:05 | Strong burning smell coming from Imlay. Odour unsubstantiated. Odour traced back to Leamington Street (burning plastic smell). | | ✓ |
| 26 | Horizons (complainant contacted Horizons - 250 Heads Road). | 250 Heads Road | 01.02.22 | 16:40 | 16:45 | Strong rotten smell coming from Imlay (Mechanical breakdown). Substantiated rendering odour caused by a mechanical breakdown. Attempt to empty inside raw bin failed resulting in fugitive odours. | ✓ | |
| 27 | Stephen Bryson | 7 Saunders Place | 01.02.22 | 17:10 | 17:17 | Strong rotten smell coming from Imlay (Mechanical breakdown). Substantiated rendering odour caused by a mechanical breakdown. Attempt to empty inside raw bin failed resulting in fugitive odours. | ✓ | |
| 28 | Horizons (complainant contacted Horizons - 1 Kings Ave). | 1 Kings Ave | 01.02.22 | 19:30 | 19:37 | Strong rotten smell coming from Imlay (Mechanical breakdown). Substantiated rendering odour caused by a mechanical breakdown. Attempt to empty inside raw bin failed resulting in fugitive odours. | ✓ | |
| 29 | Horizons (complainant contacted Horizons - 280 Heads Road). | 280 Heads Road | 02.02.22 | 18:00 | 18:12 | Rotten meat smell coming from Imlay. Odour unsubstantiated. No odour at time of FIDOL Assessment. | | ✓ |
| 30 | Stephen Bryson | 7 Saunders Place | 02.02.22 | 19:46 | 20:15 | Rotten meat smell coming from Imlay. Odour unsubstantiated. No odour at time of FIDOL Assessment. | | ✓ |
| 31 | Horizons (complainant contacted Horizons - 10 Kings Ave). | 10 Kings Ave | 03.02.22 | 17:10 | 17:28 | Bad smell coming from Imlay. Odour unsubstantiated. No odour at time of FIDOL Assessment. | | ✓ |
| 32 | John Lawson | 16a Bignell Street | 03.02.22 | 17:15 | 17:16 | Bad smell coming from Imlay. Odour unsubstantiated. No odour at time of FIDOL Assessment. | | ✓ |
| 33 | Peter Winters | 4 Wordsworth Street | 04.02.22 | 14:32 | 14:52 | Bad smell coming from Imlay. Odour unsubstantiated. No odour at time of FIDOL Assessment. | | ✓ |
| 34 | Horizons (complainant contacted Horizons - Rimu Street). | Rimu Street | 04.02.22 | 17:35 | 17:55 | Bad smell coming from Imlay. Cooking odour. Substantiated rendering odour. Would deem it objectionable if it became continuous (Company FIDOL assessment outcome used due to Armourguards late arrival at complainant's address). | ✓ | |
| 35 | Trevor Beamsley | 292 Heads Road | 04.02.22 | 18:19 | 18:27 | Rotten product cooking smell. Cooking odour. Substantiated rendering odour. Would deem it objectionable if it became continuous. | ✓ | |

| Nº | NAME | ADDRESS | DATE | TIME REPORTED | TIME OF INVESTIGATION | COMMENTS | SUBSTANTIATED (Ours) | UNSUBSTANTIATED |
|----|--|--------------------|----------|---------------|-----------------------|---|----------------------|------------------|
| 36 | Karen Manson | 274b Heads Road | 17.02.22 | 16:50 | N/A | There was no investigation carried out due to a communication breakdown however the Compliance Manager did detect a plastic burning smell around the time of the complaint in the Heads Road / Beach Road area (near TRS Building). | Not investigated | Not investigated |
| 37 | Tony & Pat Marsh | 10 Balgownie Ave | 18.02.22 | 18:00 | 18:20 | Odour coming from Imlay. Same old thing. I know nothing will be done about it but just thought I'd ring. Substantiated rendering odour. Rated as not objectionable by Armourguard. | ✓ | |
| 38 | Odour phone - Tania from Balgownie Ave). | Balgownie Ave | 22.02.22 | 18:00 | 18:20 | Bad smell coming from Imlay. Substantiated rendering odour. Rated as not objectionable by Armourguard. | ✓ | |
| 39 | Trevor Beamsley | 292 Heads Road | 24.02.22 | 16:26 | 16:40 | Odour coming from Imlay. Unsubstantiated: Open Country odour - slight lactose odour. | | ✓ |
| 40 | John Lawson | 16a Bignell Street | 01.03.22 | 14:08 | 14:18 | Terrible odour coming from Imlay as usual "Can you do something about it". Unsubstantiated: Open Country odour - lactose odour. | | ✓ |
| 41 | Horizons (complainant contacted Horizons - Balgownie Ave). | Balgownie Ave | 04.03.22 | 17:20 | 17:50 | Odour coming from Imlay. Substantiated: Persistent cooking smell detected at boundary fence. Odour caused by overloading of dryer. | ✓ | |
| 42 | Sharon Semple | 34 Bignell Street | 07.03.22 | 18:50 | 19:00 | Old burnt meat smell coming from Imlay. Substantiated: Persistent odour beyond the boundary fence. Odour caused by bio filter fan not switched on. | ✓ | |
| 43 | Stephen Bryson | 7 Saunders Place | 10.03.22 | 18:20 | 18:55 | Putrid rotten odour coming from Imlay. (Unsubstantiated odour beyond boundary fence - Armourguard FIDOL assessment outcome). | | ✓ |
| 44 | Stephen Bryson | 7 Saunders Place | 22.03.22 | 18:40 | 19:15 | Smells of works hanging in the air (Unsubstantiated odour beyond boundary fence - Armourguard FIDOL assessment outcome). | | ✓ |
| 45 | Craig O'Dean | 64 Bignell Street | 26.03.22 | 12:40 | 12:55 | Shitty smell coming from Imlay (Unsubstantiated odour beyond boundary fence - Imlay Security Guard FIDOL assessment outcome). | | ✓ |

5. RenderTech Action List

| RenderTech Action List - 2022 | | | | |
|-------------------------------|---------------------------|---|------------------------|--|
| No | Item | Issue | Responsibility | Target Date |
| 1 | Condenser Tubes | Clean hot point sources (Triple Stack) condenser tubes. | Contractors | June 2022 (Shutdown) |
| 2 | Twin Screw Press | Visible fuming - ensure all items of plant are enclosed with well sealing covers. | Imlay Maintenance Team | Completed |
| 3 | Pre-cooker Weir | Visible fuming - ensure all items of plant are enclosed with well sealing covers. | Imlay Maintenance Team | Completed |
| 4 | Drainer Conveyor | Visible fuming - ensure all items of plant are enclosed with well sealing covers. | Imlay Maintenance Team | Completed |
| 5 | Stickwater Tank | Visible fuming - ensure all items of plant are enclosed with well sealing covers. | Imlay Maintenance Team | Completed |
| 6 | Separator Sludge Cyclones | Blank off Separator sludge cyclones and seal square tanks. | Imlay Maintenance Team | Completed |
| 7 | Separator Sludge | Redirect separator sludge so that sludge can be pumped to pre-cooker. | Contractors | June 2022 (Shutdown) |
| 8 | Blood Concentrate | Pump blood concentrate to sealed drain. | Contractors | June 2022 (Shutdown) |
| 9 | Blood Bins | Investigate building enclosure around blood bins. | Contractors | On hold until blood dryer has been installed |
| 10 | All Drains | Cover drains and add point source extraction point. | Contractors | June 2022 (Shutdown) |
| 11 | Inside Raw Bin | Modify inside raw bin dewatering screen. | Contractors | June 2022 (Shutdown) |