**Supporting Material**

# Valorization of soybean processing wastewater sludge through black soldier fly larvae: Insights into the performance and bacterial community dynamics

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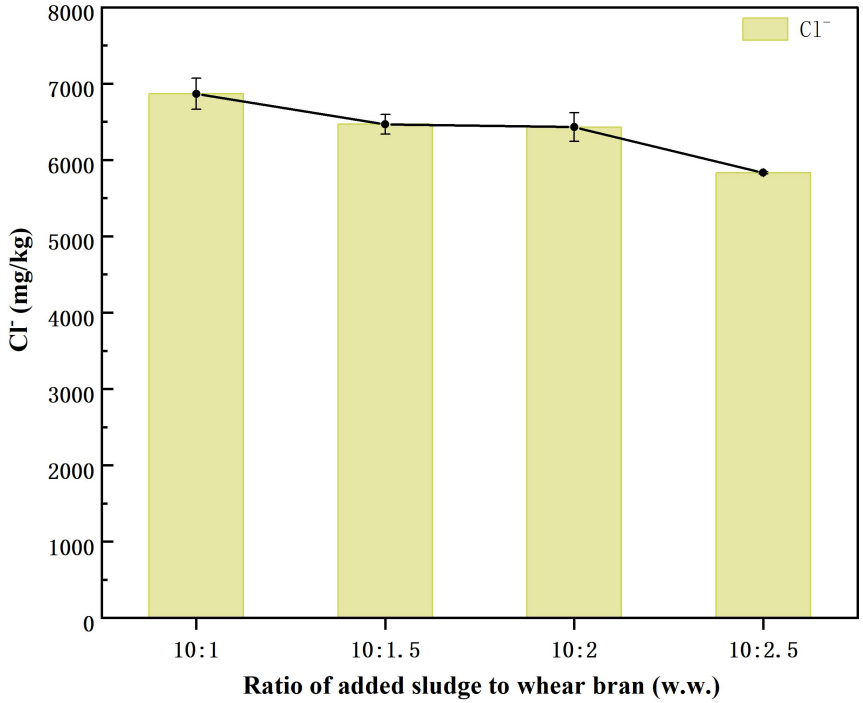


**Figure S1**. Concentration of chloride ion in the final residues

**Table S1.** Diversity of bacterial community in the residues and its gut contents

| The ratio of sludge to wheat bran | Samples | Shannon | Simpson | Ace | Chao |
|---|---|---|---|---|---|
| | sludge $_{initial}$ | 3.45 | 0.11 | 391.85 | 388.26 |
| 10:1 | gut content | 3.97 | 0.04 | 409.06 | 403.64 |
| | residue | 2.79 | 0.14 | 300.66 | 294.65 |
| 10:1.5 | gut content | 3.75 | 0.04 | 359.44 | 353.22 |
| | residue | 2.18 | 0.20 | 227.72 | 209.64 |
| 10:2 | gut content | 3.78 | 0.05 | 389.52 | 386.33 |
| | residue | 2.59 | 0.15 | 174.35 | 184.54 |
| 10:2.5 | gut content | 3.07 | 0.11 | 302.19 | 303.13 |
| | residue | 2.53 | 0.135 | 171.24 | 161.21 |

**Table S2**. The cost data for a black soldier fly larvae (BSFL)-based project aimed at treating 10 tons of sludge using a ground farming model

| Items | Cost (10 thousand CNY/year) |
|---|---|
| Construction aspects | 20.2 |
| *·Infrastructure* | |
| *· Equipment* | |
| *(based on 5-year payback period)* | |
| Operating aspects | 84.6 |
| *· Labor* | |
| *· Water* | |
| *· Electricity* | |
| *· Supplementary materials* | |
| In total | 104.8 |