



January 30, 2017

Mr. Phil Richard Wisconsin Department of Natural Resources 875 S 4<sup>th</sup> Avenue Park Falls, Wisconsin 54552

Dear Phil:

Re: Monthly Status Update – December 2016 Penta Wood Products Superfund Site Siren, Wisconsin

GHD Services Inc. (GHD) has prepared this monthly status update for the period of December 2016 for the Penta Wood Products Superfund Site (Site). The project budget and costs are summarized in the following Tables 1 through 4. All problems, resolutions, and/or recommended solutions with an assessment of data collected during this period will be provided in the next Quarterly Report – October through December 2016. The following is a brief summary of the work completed.

## Phase 02-Tasks 01 through 23

No costs were billed to these tasks in the current invoice.

## Phase 03-Task 01 Well repairs

No costs were billed to this task in the current invoice.

## Phase 03-Task 02 Drilling and well installation

No costs were billed to this task in the current invoice.

## Phase 03-Task 03 System decommissioning

• No costs were billed to this task in the current invoice.

## Phase 03-Task 04 Site safety plan

The Site safety plan was updated to include the water treatment chemical removal tasks.

## Phase 03-Task 05 Site QA/QC plan

No costs were billed to this task in the current invoice.

#### Phase 03-Task 06 Waste characterization

- Wood debris, drum remnants, and saw dust sampling and characterization was coordinated. Samples were collected on December 8, 2016.
- Water treatment chemical characterization was coordinated.





## Phase 03-Task 07 Waste disposal

- Profiling and disposal of the water treatment chemicals were coordinated. Samples were collected on December 19, 2016. The samples were shipped to the disposal facility following hazardous material requirements.
- Communicated with the disposal company.
- RCRA waste generator rules were evaluated to determine appropriate status for the Site related to future water treatment chemical removal.

## Phase 03-Task 08 Housekeeping and grounds keeping

- Snowplowing and annual fire extinguisher inspection/maintenance was coordinated.
- The current invoice includes subcontractor (Maurer Power) costs to troubleshoot electrical use on August 24, 2016.

## Phase 03-Task 09 Quarterly groundwater/LNAPL level monitoring

No costs were billed to this task in the current invoice.

## Phase 03-Task 10 Baseline groundwater well sampling

No costs were billed to this task in the current invoice.

## Phase 03-Task 11 Quarterly groundwater well sampling

• The January 2017 quarterly groundwater sampling event was coordinated.

## Phase 03-Task 12 Semiannual residential well sampling

No costs were billed to this task in the current invoice.

## Phase 03-Task 13 Quarterly reporting

Portions of the draft Quarterly Report – October through December 2016 were prepared.

## Phase 03-Task 14 Monthly reporting

- Periodic project updates were provided to WDNR.
- The project budget was updated.
- The Monthly Status Report November 2016 was prepared and subsequently submitted on December 19, 2016.

## Phase 03-Task 15 Regulatory communications

No costs were billed to this task in the current invoice.



## Phase 03-Task 16 Microcosm and bio-trap study

• The microcosm and bio-trap study continued.

## Phase 03-Task 17 Shallow soil and sediment investigation

A soil and sediment sampling plan was developed for Area 29.

## Phase 04-Tasks 01 through 09

No costs will be billed to these tasks until 2017.

Should you have questions, please do not hesitate to contact us.

Sincerely,

**GHD** 

Tim Ree

TR/sb/38

Encl.

cc: Stephanie Linebaugh, USEPA (via email)

Viral Patel, USEPA (via email)

Judy Fassbender, WDNR Madison (via email)

David Swimm, WDNR Madison (via email)

John Robinson, WDNR Wausau (via email)

Gary Edelstein, WDNR Madison (via email)

Duane Klein, WDNR Madison (via email)

Ron Frehner, GHD (via email)

Brian Sandberg, GHD (via email)

Pete Storlie, GHD (via email)

086165Richard-38-Monthly Status Report 3

# Budget Summary Penta Wood Products Superfund Site Siren, Wisconsin

#### **GHD Project Number 086165**

Original Scope of Work and Purchase Order

| Phase | Description                      | Budget             |
|-------|----------------------------------|--------------------|
| 02    | Original Scope of Work (Table 2) | \$<br>1,271,421.94 |
|       | Original Scope of Work Total     | \$<br>1,271,421.94 |

| Curro<br>Invoice<br>(throu<br>1/1/20 | Cost<br>ugh | Project<br>Previous<br>voiced Cost | Inv | sts<br>Total<br>voiced Cost<br>(through<br>1/1/2017) | Budget<br>Remaining<br>(through<br>1/1/2017) |
|--------------------------------------|-------------|------------------------------------|-----|--|--|
| \$                                   | -           | \$<br>180,027.59                   | \$  | 180,027.59   | \$<br>1,091,394.35                           |
| \$                                   | -           | \$<br>180,027.59                   | \$  | 180,027.59   | \$<br>1,091,394.35                           |

**Revised Scope of Work** 

| Phase | Description                               | Budget           |
|-------|---|------------------|
| 03    | 2015-2016 Revised Scope of Work (Table 3) | \$<br>786,897.18 |
| 04    | 2017 Revised Scope of Work (Table 4)      | \$<br>140,152.84 |
|       | Revised Scope of Work Total               | \$<br>927,050.02 |

|     |  | Project                 | t Cos | sts   |  |            |  |  |  |  |
|-----|--|-------------------------|-------|---|--|------------|--|--|--|--|
| Inv | Current<br>voice Cost<br>(through<br>1/1/2017) | Previous<br>voiced Cost |       | Total<br>voiced Cost<br>(through<br>1/1/2017) | iced Cost Remaining<br>nrough (through |            |  |  |  |  |
| \$  | 17,386.29                                      | \$<br>609,061.37        | \$    | 626,447.66                                    | \$                                     | 160,449.52 |  |  |  |  |
| \$  | -  | \$<br>-                 | \$    | -   | \$                                     | 140,152.84 |  |  |  |  |
| \$  | 17,386.29                                      | \$<br>609,061.37        | \$    | 626,447.66                                    | \$                                     | 300,602.36 |  |  |  |  |

Overall Budget Status 1

| Original Budget                               | \$<br>1,271,421.94 |
|---|--------------------|
| Total Invoiced Cost (through 11/27/2016)      | \$<br>806,475.25   |
| Overall Budget Remaining (through 11/27/2016) | \$<br>464,946.69   |

#### Note:

1 The total revised scope of work budget is less that the original scope of work purchase order budget. For overall project budget tracking purposes, the combined costs for work completed under the original purchase order and the revised scope of work are compared against the original purchase order budget.

## Original Scope of Work and Purchase Order Budget Summary Penta Wood Products Superfund Site Siren, Wisconsin

GHD Project Number 086165 Phase 02 - August 1, 2015 - July 31, 2017

## Original Scope of Work and Purchase Order Budget

**Project Costs** 

|      | *                                     |   |                       | <br>mase Order D | <br>             |     |  | 1 10,00                 |    |  |  |
|------|---------------------------------------|---|-----------------------|------------------|------------------|-----|--|-------------------------|----|--|--|
| Task | Description                           | Unit  | Estimated<br>Quantity | Unit Cost        | Budget           | Inv | Current<br>roice Cost<br>through<br>/1/2017) | Previous<br>voiced Cost | (  | Total<br>oiced Cost<br>(through<br>1/1/2017) | Budget<br>Remaining<br>(through<br>1/1/2017) |
| 01   | Routine O&M                           | Labor hours/rate estimated material equipment and rental costs and travel | 2                     | \$<br>319,744.46 | \$<br>639,488.92 | \$  | -  | \$<br>91,595.41         | \$ | 91,595.41                                    | \$<br>547,893.51                             |
| 02   | Waste characterization                | Labor hours/rate estimated material equipment and rental costs and travel | 2                     | \$<br>9,064.00   | \$<br>18,128.00  | \$  | -  | \$<br>-                 | \$ | -  | \$<br>18,128.00                              |
| 03   | Waste disposal                        | Costs plus markup   | 2                     | \$<br>91,200.36  | \$<br>182,400.72 | \$  | -  | \$<br>-                 | \$ | -  | \$<br>182,400.72                             |
| 04   | Housekeeping and grounds keeping      | Labor hours/rate estimated material equipment and rental costs and travel | 2                     | \$<br>17,889.60  | \$<br>35,779.20  | \$  | -  | \$<br>2,742.13          | \$ | 2,742.13                                     | \$<br>33,037.07                              |
| 05   | Monthly soil gas monitoring           | Each round  | 14                    | \$<br>3,286.80   | \$<br>46,015.20  | \$  | -  | \$<br>5,525.48          | \$ | 5,525.48                                     | \$<br>40,489.72                              |
| 06   | Treat syst inf (PCP)                  | Each round  | 48                    | \$<br>99.23      | \$<br>4,762.80   | \$  | -  | \$<br>756.00            | \$ | 756.00                                       | \$<br>4,006.80                               |
| 07   | Treat syst eff (PCP)                  | Each round  | 104                   | \$<br>226.73     | \$<br>23,579.40  | \$  | -  | \$<br>3,696.71          | \$ | 3,696.71                                     | \$<br>19,882.69                              |
| 08   | Treat syst eff (DRO, naphthalene)     | Each round  | 24                    | \$<br>132.30     | \$<br>3,175.20   | \$  | -  | \$<br>504.00            | \$ | 504.00                                       | \$<br>2,671.20                               |
| 09   | Treat syst eff (metals, chloride)     | Each round  | 8                     | \$<br>194.70     | \$<br>1,557.60   | \$  | -  | \$<br>64.05             | \$ | 64.05  | \$<br>1,493.55                               |
| 10   | Treat syst eff (BTEX, phenol, dioxin) | Each round  | 2                     | \$<br>495.60     | \$<br>991.20     | \$  | -  | \$<br>-                 | \$ | -  | \$<br>991.20                                 |
| 11   | Semi-annual GW/LNAPL level monitoring | Each round  | 4                     | \$<br>894.00     | \$<br>3,576.00   | \$  | -  | \$<br>746.25            | \$ | 746.25                                       | \$<br>2,829.75                               |
| 12   | Annual GW well sampling               | Each round  | 2                     | \$<br>20,284.30  | \$<br>40,568.60  | \$  | -  | \$<br>20,228.08         | \$ | 20,228.08                                    | \$<br>20,340.52                              |
| 13   | Semi-annual GW well sampling          | Each round  | 2                     | \$<br>8,511.20   | \$<br>17,022.40  | \$  | -  | \$<br>-                 | \$ | -  | \$<br>17,022.40                              |

#### Original Scope of Work and Purchase Order Budget Summary Penta Wood Products Superfund Site Siren, Wisconsin

GHD Project Number 086165 Phase 02 - August 1, 2015 - July 31, 2017

#### Original Scope of Work and Purchase Order Budget

**Project Costs** 

|      | 1  |                                       | Fulchase Order Budget |             |            |    |              |    |   |   |                    | Tojec | i Cos |  |    |  |
|------|--|---------------------------------------|-----------------------|-------------|------------|----|--------------|----|---|---|--------------------|-------|-------|--|----|--|
| Task | Description                                  | Unit                                  | Estimated<br>Quantity | ı           | Unit Cost  |    | Budget       |    | Current<br>nvoice Cost<br>(through<br>1/1/2017) | t | Previo<br>Invoiced |       |       | Total<br>oiced Cost<br>(through<br>1/1/2017) |    | Budget<br>Remaining<br>(through<br>1/1/2017) |
| 14   | Semi-annual residential well sampling        | Each round                            | 4                     | \$          | 5,388.18   | \$ | 21,552.70    | \$ |   | - | \$ 5,3             | 88.63 | \$    | 5,388.63                                     | \$ | 16,164.07                                    |
| 15   | Semi-annual reporting                        | Each                                  | 4                     | \$          | 8,282.00   | \$ | 33,128.00    | \$ |   | - | \$ 1,2             | 36.00 | \$    | 1,236.00                                     | \$ | 31,892.00                                    |
| 16   | Monthly status reporting                     | Each                                  | 24                    | \$          | 3,523.83   | \$ | 84,572.00    | \$ |   | - | \$ 12,7            | 87.33 | \$    | 12,787.33                                    | \$ | 71,784.67                                    |
| 17   | Regulatory communications                    | Pre-approved and determined by DNR    | 2                     | \$          | 15,000.00  | \$ | 30,000.00    | \$ |   | - | \$                 | -     | \$    | -  | \$ | 30,000.00                                    |
| 18   | Site Safety Plan                             | Estimated cost not to exceed          | 2                     | \$          | 1,942.00   | \$ | 3,884.00     | \$ |   | - | \$ 2               | 75.50 | \$    | 275.50                                       | \$ | 3,608.50                                     |
| 19   | Site QA/QC Plan                              | Estimated cost not to exceed          | 2                     | \$          | 4,200.00   | \$ | 8,400.00     | \$ |   | - | \$                 | -     | \$    | -  | \$ | 8,400.00                                     |
| 20   | Alternate remedy recommendation <sup>1</sup> | Estimated cost not to exceed          | 1                     | \$          | 27,750.00  | \$ | 27,750.00    | \$ |   | - | \$ 30,6            | 95.89 | \$    | 30,695.89                                    | \$ | (2,945.89)                                   |
| 21   | WPDES permit updates                         | Estimated cost not to exceed          | 1                     | \$          | 3,288.00   | \$ | 3,288.00     | \$ |   | - | \$                 | -     | \$    | -  | \$ | 3,288.00                                     |
| 22   | Heating/ventilation system repairs           | Labor, material, and contractor costs | 1                     | \$          | 20,752.00  | \$ | 20,752.00    | \$ |   | - | \$ 1,7             | 87.50 | \$    | 1,787.50                                     | \$ | 18,964.50                                    |
| 23   | Well repairs                                 | Labor, material, and contractor costs | 1                     | \$          | 21,050.00  | \$ | 21,050.00    | \$ |   | - | \$ 1,9             | 98.63 | \$    | 1,998.63                                     | \$ | 19,051.37                                    |
|      | <u> </u>                                     | 1                                     |                       | Ord<br>Tota | ler Budget | \$ | 1,271,421.94 | \$ |   | - | \$ 180,0           | 27.59 | \$    | 180,027.59                                   | \$ | 1,091,394.35                                 |

#### Notes:

1 WDNR approved an increase of \$3,000.00 to the Task 20 unit price due to additional work associated with evaluating existing monitoring well network, proposing additional well locations, confirming field locations; developing a microcosm and bio-trap study work plan; assessing microbial biological tools (MBTs) and environmental molecular diagnostics (EMDs).

## 2015-2016 Revised Scope of Work and Budget Summary Penta Wood Products Superfund Site Siren, Wisconsin

GHD Project Number 086165 Phase 03 - November 1, 2015 - December 31, 2016

## 2015-2016 Revised Scope of Work

and Budget Project Costs

| Task |                                  |          | Estimated |    |            |                  |      | urrent                         | Previous         | Total                                | Decelored                                   |
|------|----------------------------------|----------|-----------|----|------------|------------------|------|--------------------------------|------------------|--------------------------------------|---|
| ruon | Description                      | Unit     | Quantity  | ,  | Unit Cost  | Budget           | Invo | pice Cost<br>hrough<br>1/2017) | oiced Cost       | voiced Cost<br>(through<br>1/1/2017) | Budget<br>emaining<br>(through<br>1/1/2017) |
| 01   | Well repairs                     | Lump sum | 1         | \$ | 20,663.30  | \$<br>20,663.30  | \$   | -                              | \$<br>20,584.70  | \$<br>20,584.70                      | \$<br>78.60                                 |
| 02   | Drilling and well installation   | Lump sum | 1         | \$ | 63,369.90  | \$<br>63,369.90  | \$   | -                              | \$<br>60,825.82  | \$<br>60,825.82                      | \$<br>2,544.08                              |
| 03   | System decommissioning           | Lump sum | 1         | \$ | 82,778.80  | \$<br>82,778.80  | \$   | -                              | \$<br>82,730.39  | \$<br>82,730.39                      | \$<br>48.41                                 |
| 04   | Site safety plan                 | Plan     | 1         | \$ | 3,372.50   | \$<br>3,372.50   | \$   | 394.50                         | \$<br>2,927.78   | \$<br>3,322.28                       | \$<br>50.22                                 |
| 05   | Site QA/QC plan                  | Plan     | 1         | \$ | 6,829.50   | \$<br>6,829.50   | \$   | -                              | \$<br>4,958.97   | \$<br>4,958.97                       | \$<br>1,870.53                              |
| 06   | Waste characterization           | Lump sum | 1         | \$ | 20,810.00  | \$<br>20,810.00  | \$   | 2,793.96                       | \$<br>8,001.15   | \$<br>10,795.11                      | \$<br>10,014.89                             |
| 07   | Waste disposal                   | Lump sum | 1         | \$ | 173,149.00 | \$<br>173,149.00 | \$   | 5,200.65                       | \$<br>144,627.34 | \$<br>149,827.99                     | \$<br>23,321.01                             |
| 08   | Housekeeping and grounds keeping | Lump sum | 1         | \$ | 16,545.30  | \$<br>16,545.30  | \$   | 945.15                         | \$<br>14,187.68  | \$<br>15,132.83                      | \$<br>1,412.47                              |
| 09   | Quarterly fluid level monitoring | Event    | 4         | \$ | 3,471.65   | \$<br>13,886.60  | \$   | -                              | \$<br>4,309.80   | \$<br>4,309.80                       | \$<br>9,576.80                              |

**Project Costs** 

#### Table 3

## 2015-2016 Revised Scope of Work and Budget Summary Penta Wood Products Superfund Site Siren, Wisconsin

GHD Project Number 086165 Phase 03 - November 1, 2015 - December 31, 2016

## 2015-2016 Revised Scope of Work

|            | • |  |
|------------|---|--|
| and Budget |   |  |

| Task | Description                             | Unit                               | Estimated<br>Quantity |     | Unit Cost    | Budget           | Inv | Current<br>/oice Cost<br>(through<br>I/1/2017) | Previous<br>voiced Cost | Total<br>voiced Cost<br>(through<br>1/1/2017) | Budget<br>Remaining<br>(through<br>1/1/2017) |
|------|---|------------------------------------|-----------------------|-----|--------------|------------------|-----|--|-------------------------|---|--|
| 10   | Baseline groundwater sampling           | Event                              | 1                     | \$  | 74,916.75    | \$<br>74,916.75  |     |  | \$<br>74,432.36         | \$<br>74,432.36                               | \$<br>484.39                                 |
| 11   | Quarterly monitoring well sampling      | Event                              | 3                     | \$  | 26,278.28    | \$<br>78,834.84  | \$  | 1,938.28                                       | \$<br>56,389.07         | \$<br>58,327.35                               | \$<br>20,507.49                              |
| 12   | Semiannual residential well sampling    | Event                              | 2                     | \$  | 4,194.89     | \$<br>8,389.78   | \$  | -  | \$<br>8,374.91          | \$<br>8,374.91                                | \$<br>14.87                                  |
| 13   | Quarterly reporting                     | Report                             | 4                     | \$  | 8,339.00     | \$<br>33,356.00  | \$  | 1,964.00                                       | \$<br>31,085.37         | \$<br>33,049.37                               | \$<br>306.63                                 |
| 14   | Monthly reporting                       | Report                             | 14                    | \$  | 2,792.65     | \$<br>39,097.10  | \$  | 2,768.50                                       | \$<br>32,563.23         | \$<br>35,331.73                               | \$<br>3,765.37                               |
| 15   | Regulatory communications               | Pre-approved and determined by DNR | 1                     | \$  | 15,000.00    | \$<br>15,000.00  | \$  | -  | \$<br>4,418.94          | \$<br>4,418.94                                | \$<br>10,581.06                              |
| 16   | Microcosm and bio-trap study            | Lump sum                           | 1                     | \$  | 45,793.40    | \$<br>45,793.40  | \$  | 650.00   | \$<br>38,691.94         | \$<br>39,341.94                               | \$<br>6,451.46                               |
| 17   | Shallow soil and sediment investigation | Pre-approved and determined by DNR | 1                     | \$  | 55,119.50    | \$<br>55,119.50  | \$  | 731.25   | \$<br>19,951.92         | \$<br>20,683.17                               | \$<br>34,436.33                              |
|      |   |                                    | 2015-2016 I           | Bud | get Subtotal | \$<br>751,912.27 | \$  | 17,386.29                                      | \$<br>609,061.37        | \$<br>626,447.66                              | \$<br>125,464.61                             |

## 2015-2016 Revised Scope of Work and Budget Summary Penta Wood Products Superfund Site Siren, Wisconsin

GHD Project Number 086165 Phase 03 - November 1, 2015 - December 31, 2016

## 2015-2016 Revised Scope of Work

|      |  |          |                    |                | and Budget             | •  |            |     |   | Projec                  | t Co | sts   |  |
|------|--|----------|--------------------|----------------|------------------------|----|------------|-----|---|-------------------------|------|---|--|
| Task | Description  | Unit     | Estimated Quantity |                | Unit Cost              |    | Budget     | Inv | Current<br>voice Cost<br>through<br>1/1/2017) | Previous<br>voiced Cost |      | Total<br>voiced Cost<br>(through<br>1/1/2017) | Budget<br>Remaining<br>(through<br>1/1/2017) |
| WDNR | Approved Additional Costs                            |          |                    |                |                        |    |            |     |   |                         |      |   |  |
| 11   | Quarterly monitoring well sampling <sup>1</sup>      | Event    | 3                  | \$             | 2,813.37               | \$ | 8,440.11   | \$  | -   | \$<br>-                 | \$   | -   | \$<br>8,440.11                               |
| 01   | Well repairs <sup>2</sup>                            | Lump sum | 1                  | \$             | 8,184.00               | \$ | 8,184.00   | \$  | -   | \$<br>-                 | \$   | -   | \$<br>8,184.00                               |
| 11   | Quarterly monitoring well sampling <sup>3</sup>      | Event    | 1                  | \$             | 2,260.38               | \$ | 2,260.38   | \$  | -   | \$<br>-                 | \$   | -   | \$<br>2,260.38                               |
| 17   | Shallow soil and sediment investigation <sup>4</sup> | Lump sum | 1                  | \$             | 16,100.42              | \$ | 16,100.42  | \$  | -   | \$<br>-                 | \$   | -   | \$<br>16,100.42                              |
|      |  |          |                    |                | pproved<br>ts Subtotal | \$ | 34,984.91  | \$  | -   | \$<br>-                 | \$   | -   | \$<br>34,984.91                              |
|      |  |          |                    | 15-20<br>get 1 | 016<br>Total           | \$ | 786,897.18 | \$  | 17,386.29                                     | \$<br>609,061.37        | \$   | 626,447.66                                    | \$<br>160,449.52                             |

#### Notes:

- 1 WDNR approved an increase of \$8,440.11 (\$2,813.37 per event unit cost) to the Task 11 budget due to additional work associated with collection and laboratory analysis of three additional groundwater monitoring well samples (MW23, MW25, and EW13S) during three quarterly events.
- 2 WDNR approved an increase of \$8,184.00 to the Task 01 budget due to additional well repair work.
- 3 WDNR approved an increase of \$2,224.00 to the Task 11 budget due to sampling at wells MW4 and MW14 during one quarterly event.
- 4 WDNR approved an increase of \$16,100.42 to the Task 17 budget to complete the shallow soil and sediment investigation.

## 2017 Revised Scope of Work and Budget Summary Penta Wood Products Superfund Site Siren, Wisconsin

GHD Project Number 086165
Phase 04 - January 1, 2017 - December 31, 2017

## 2017 Revised Scope of Work and Budget

**Project Costs** Current **Previous** Total Budget **Invoice Cost Invoiced Cost Invoiced Cost** Remaining (through (through (through 1/1/2017) 1/1/2017) 1/1/2017) 1,310.50 \$ \$ \$ \$ \$ \$ \$ \$ 2,098.00 \$ \$ \$ 15,381.60 \$ \$ \$ \$ \$ 13,886.40 \$ \$ \$ \$ 52,556.56 \$ \$ 8,389.78 \$ \$ \$ 12,402.00 \$ \$ \$ \$ \$ 19,128.00 \$ \$ 15,000.00 \$ \$ \$ \$ 140,152.84

|      |                                      |                                    | Estimated |      | ana Baagot |                  |
|------|--------------------------------------|------------------------------------|-----------|------|------------|------------------|
|      | Described to                         | 11.2                               |           |      | 1.11.0     | B 1              |
| Task | Description                          | Unit                               | Quantity  | '    | Jnit Cost  | Budget           |
|      |                                      |                                    |           |      |            |                  |
| 01   | Site safety plan                     | Plan                               | 1         | \$   | 1,310.50   | \$<br>1,310.50   |
| 02   | Site QA/QC plan                      | Plan                               | 1         | \$   | 2,098.00   | \$<br>2,098.00   |
| 03   | Housekeeping and grounds keeping     | Lump sum                           | 1         | \$   | 15,381.60  | \$<br>15,381.60  |
| 04   | Quarterly fluid level monitoring     | Event                              | 4         | \$   | 3,471.60   | \$<br>13,886.40  |
| 05   | Semiannual monitoring well sampling  | Event                              | 2         | \$   | 26,278.28  | \$<br>52,556.56  |
| 06   | Semiannual residential well sampling | Event                              | 2         | \$   | 4,194.89   | \$<br>8,389.78   |
| 07   | Semiannual reporting                 | Report                             | 2         | \$   | 6,201.00   | \$<br>12,402.00  |
| 08   | Monthly reporting                    | Report                             | 12        | \$   | 1,594.00   | \$<br>19,128.00  |
| 09   | Regulatory communications            | Pre-approved and determined by DNR | 1         | \$   | 15,000.00  | \$<br>15,000.00  |
|      | I                                    |                                    | 2017 B    | udge | et Total   | \$<br>140,152.84 |