**Environmental Resources Management**

16300 Katy Freeway
Suite 300
Houston, Texas 77094-1611
(281) 579-8999
(281) 579-8988 (fax)

ERM®

November 17, 1999

NOV 2001
RECEIVED

Mr. Michael Hebert
US Environmental Protection Agency, Region VI
1445 Ross Avenue
Suite 1200
Dallas, Texas 75202

W.O. #555-01

Subject: Sparton Technology, Inc., Coors Road Facility, Albuquerque, New Mexico; Cost Estimate for Financial Assurance Purposes

Dear Mr. Hebert:

Pursuant to the request of Mr. R. Jan Appel, please find enclosed a memo responding to your comments and state agency comments on our November 4, 1999 cost estimate (Attachment 1) along with an updated estimate of capital expenditures and future operating, maintenance, and monitoring costs for the Coors Road Facility (Attachment 2). The bases for this cost estimate are work plans and reports supplied by Sparton Technology, Inc. (Sparton) listed in Attachment 3, EPA guidance documents for financial assurance, and ERM's experience in installing, operating, and maintaining similar remedial systems. Supporting information for the updated estimates are in Attachments 4 through 7.

A site visit was performed on November 3, 1999 to assess the current status of remedial activities.

ERM's estimate and projections are based upon anticipated costs that are consistent with known conditions at the subject facility and previously incurred costs in accordance with EPA guidance.

Costs are presented in terms of 1999 dollars. The cost estimate can be reviewed annually and adjusted as appropriate for inflation, revisions in the remedial work plans, and deviations from assumed conditions.

We appreciate the opportunity to submit this cost estimate and response to comments. Mr. Tony Hurst will be contacting you to schedule a follow-up conference call to address questions that you or state reviewers may have. We look forward to that call and appreciate your help with this matter.

Sincerely,

Environmental Resources Management

Richard C. Bost

Richard C. Bost, P.E., CGWP
Principal

RCB/jbr
Attachments

cc: Carl Will, NMED (Albuquerque, New Mexico)

# Response to Comments

*Attachment 1*

*November 17, 1999*
*W.O. #555-01*

**Environmental Resources Management**
16300 Katy Freeway, Suite 300
Houston, Texas 77094-1611
(281) 579-8999

BS180555-K99

## Attachment 1

## Summary of Changes
## and
## Responses to Questions raised by EPA to the Previously Provided Estimate

Listed below are responses to questions raised by the EPA and NMED to the previously submitted cost estimate. Supporting documentation is referenced in the responses and included in Attachments 4 through 7.

***Responses Resulting in Modification of the Estimate***

*Duration of Off-site Containment*

The NPV (Net Present Value) spreadsheet anticipates operation of the off-site containment portion for a period of 20 years.

Attachment 2 contains the current NPV Estimate (includes changes described below) with operation of the off-site containment portion for a period of 20 years. Included as Attachment 3 is a bibliography of the documents reviewed by ERM in preparing the NPV estimate.

A 20-year duration for the off-site containment was estimated from clean-up modeling prepared by S. S. Papadopulos & Associates based on a site-specific model developed from available data. The modeling indicated off-site concentrations below clean-up levels in less than 20 years; the duration of system operation was rounded up to match the five-year reporting period.

*Air Stripper Influent and Effluent Monitoring Costs*

Costs for sampling and analyzing monthly the influent and effluent to the off-site and source containment strippers have been added as individual line items to the NPV spreadsheets included in Attachment 2. Costs for the sampling and analyses, based on past experience, are estimated to be $350.00 per month per stripper.

*System Dismantling and Well Plugging and Abandonment*

The assumption was made that the salvage value for system components would equal the dismantling costs. Thus no value is included in the NPV estimate for system dismantling. However, no cost was provided for the plugging and abandonment of extraction and monitoring wells.

Therefore, a line item was added to the NPV spreadsheet under closure costs for plugging and abandonment of wells. The cost to plug and abandon a well was obtained from Texas Natural Resource Conservation Commission Guidance and is estimated to be $89,000 for 63 wells. Copies of the guidance and cost estimate calculations are included in Attachment 4.

***Responses Not Resulting in Modification of the Estimate***

*NPV Calculation Methodology*

Net Present Value to 1999 dollars was calculated starting for year 2000 using an Excel standard calculation [NPV (6%, Value)]. The NPV for the 2001 expenditure was based on using the value derived for the 2000 expenditure and so on until project/expenditure completion. Attachment 5 contains a spreadsheet that shows the formulas in the NPV Estimate table. Interest Rate information is included in Attachment 6.

*Equipment Cost Estimates*

Information obtained by Gary Richardson of Metric that was used for deriving the equipment cost estimates is summarized in Attachment 7. Cost estimates are based on verbal quotes, written quotes, past experience, best engineering judgment, or a combination of these factors.

*Operations and Maintenance*

Operations and maintenance costs are based on best engineering judgment as a percentage of equipment and well installation costs divided between labor charges and equipment charges. Per Tony Hurst of Hurst Engineering, the estimated total costs for operation and maintenance include costs for replacement of mechanical equipment and wells over time.

*Aquifer Model*

Based on conversations with S. S. Papadopulos & Associates regarding the level of effort for refining the current site-specific aquifer model, it is estimated that $43,200 (present value) will be expended over the next three years to further develop and calibrate the aquifer model. Subsequent estimates assume that the time (consulting and computer time) required to recalibrate the aquifer model drop over the duration of the project based on experience gained using the model coupled with increasing amounts of information available for making the re-calibrations.

The cost of annual modeling over the following five years will decrease to a reduced level of effort associated with minor calibration modifications and to an amount of about $9,000 annually (present value). After the eighth year and toward the end of the response action period, the cost is estimated to be about $1,200 annually (present value). The Net Present Value of these modeling activities over 30 years is represented in Attachment 2. Thus, ERM used three estimates over time for re-calibration of the aquifer model, since the time required to recalibrate the aquifer model will decrease with subsequent calibrations.

*Monitoring and Reporting Five-Year Report*

The line-item estimated cost to complete the Five-Year Report includes only the time actually spent publishing previously obtained information. These data will be collected and evaluated as part of various line-item activities shown in Attachment 2, including periodic progress reporting,

the aquifer modeling, annual reports and engineering management. Thus, costs for compiling and evaluating the data for the Five-Year Report are also included in the estimate for the activities identified as Data Tabulation, etc. Therefore, no changes were made to the estimated cost for completing the Five-Year Report.

*Net Present Value Discount Rate*

The NPV discount rate was obtained by taking a cost of capital less an inflation rate. For this estimate, cost of capital was estimated to be 9% and the inflation rate to be 3% for an effective NPV discount rate of 6%. We are aware of no recent EPA regulatory guidance on what the current NPV rate should be. Therefore, conservative assumptions were made to develop the NPV discount rate for this cost estimate recognizing that the higher the NPV discount rate, the lower the estimated NPV cost.

Assumed values for cost of capital can reasonably range from the prime interest rate to the return on investment realized by Sparton Technologies (as high as +20%). Prime interest rate is considered to be a conservative estimate of the cost of capital. The average of the prime rate over the last 30 years is 9.31% with the current rate being 8.25% (see Attachment 6 for details). Thus, 9% was used as a conservative value for the cost of capital. A 3% inflation rate is also considered to be reasonable based on current economic conditions and the Federal Reserve's past and projected future monetary policies that focus on inflationary pressures.

# Cost Estimate

*Attachment 2*

*November 17, 1999*
*W.O. #555-01*

**Environmental Resources Management**
16300 Katy Freeway, Suite 300
Houston, Texas 77094-1611
(281) 579-8999

BS180555-K99

**Attachment 2**

Sparton Technologies, Inc. (NPV Estimates)[1]

Coors Rd. Facility

Albuquerque, New Mexico

| | Unit | No./Yr | Cost/Unit | | 2000-2004 | 2005-2009 | 2010-2014 | 2015-2019 | 2020-2024 | 2025-2029 | Totals |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Remaining Capital Expenditures** | | | | | | | | | | | |
| **Off-site Containment** | | | | | $0 | $0 | $0 | $0 | $0 | $0 | $0 |
| No remaining tasks | | | | | | | | | | | |
| **Vadose (SVE)** | | | | | $4,245 | $0 | $0 | $0 | $0 | $0 | $4,245 |
| Equipment - Procure/Install (1) 200scfm blowers | each | 1 | 4500 | 4500 | 4245 | 0 | 0 | 0 | 0 | 0 | |
| **Source Containment** | | | | | $95,743 | $0 | $0 | $0 | $0 | $0 | $95,743 |
| Water Rights Transfer (200 gpm) | LS | 1 | 2050 | 2050 | 1934 | 0 | 0 | 0 | 0 | 0 | |
| Equipment - (1) 120' well and (1) 50gpm pump | LS | 1 | 26000 | 26000 | 24390 | 0 | 0 | 0 | 0 | 0 | |
| Equipment - Procure/Install (1) 50gpm Air Stripper | LS | 1 | 50000 | 50000 | 46904 | 0 | 0 | 0 | 0 | 0 | |
| Install Ponds / Piping | $Ft^2$ | 1500 | 16 | 24000 | 22514 | 0 | 0 | 0 | 0 | 0 | |
| **Total Remaining Capital Expenditure** | | | | | $99,988 | $0 | $0 | $0 | $0 | $0 | $99,988 |
| **O&M Expenditures** | | | | | | | | | | | |
| **Off-site Containment** | | | | | $179,784 | $134,345 | $100,390 | $75,017 | $0 | $0 | $489,536 |
| Permits / Licenses | Unit | No./Yr | Cost/Unit | | | | | | | | |
| Pipeline Easement | LS | 1 | 500 | 500 | 2106 | 1574 | 1176 | 879 | 0 | 0 | |
| Arroyos Easement | LS | 1 | 3000 | 3000 | 12637 | 9443 | 7056 | 5273 | 0 | 0 | |
| Operate System - Power (45hp) & Utilities | Month | 12 | 1165 | 13980 | 58889 | 44005 | 32883 | 24572 | 0 | 0 | |
| Influent/Effluent Sampling | Month | 12 | 350 | 4200 | 17692 | 13220 | 9879 | 7382 | 0 | 0 | |
| O&M - Equipment | Month | 12 | 1100 | 13200 | 55603 | 41550 | 31049 | 23201 | 0 | 0 | |
| O&M - Labor | Day | 52 | 150 | 7800 | 32856 | 24552 | 18347 | 13710 | 0 | 0 | |
| Ground water monitoring -see below | | | | | | | | | | | |
| **Vadose (SVE)** | | | | | $33,276 | $0 | $0 | $0 | $0 | $0 | $33,276 |
| Operate System - Power | Month | 12 | 200 | 2400 | 4,400 | 0 | 0 | 0 | 0 | 0 | |
| O&M - Equipment | Month | 12 | 50 | 600 | 1,100 | 0 | 0 | 0 | 0 | 0 | |
| O&M - Labor | Day | 13 | 150 | 1950 | 3,575 | 0 | 0 | 0 | 0 | 0 | |
| Monitoring - Soil gas samples | Sample | 66 | 200 | 13200 | 24,201 | 0 | 0 | 0 | 0 | 0 | |
| **Source Containment** | | | | | 170,095 | 127,105 | 94,980 | 70,975 | 53,037 | 39,632 | $463,155 |
| Operate System - Power | Month | 12 | 1165 | 13980 | 58889 | 44005 | 32883 | 24572 | 18362 | 13721 | |
| Influent/Effluent Sampling | Month | 12 | 350 | 4200 | 17692 | 13220 | 9879 | 7382 | 5516 | 4122 | |
| O&M - Equipment | Month | 12 | 1100 | 13200 | 55603 | 41550 | 31049 | 23201 | 17337 | 12955 | |
| O&M - Labor | Day | 52 | 150 | 7800 | 32856 | 24552 | 18347 | 13710 | 10245 | 7656 | |
| Lease of water rights | LS | 1 | 1200 | 1200 | 5055 | 3777 | 2823 | 2109 | 1576 | 1178 | |
| **Monitoring and Reporting** | | | | | $380,215 | $283,484 | $211,836 | $158,296 | $118,288 | $104,148 | $1,033,830 |
| Progress Reporting | Month | 12 | 30 | 360 | 1516 | 1133 | 847 | 633 | 473 | 353 | |
| Aquifer Model (ERM Estimate)[2] | Day | 72/15/2 | 600 | | 181974 | 135982 | 101613 | 75931 | 56740 | 42400 | |
| Annual Reports including Performance Monitoring and Alternative Analysis | Day | 8 | 450 | 3600 | 15165 | 11332 | 8468 | 6328 | 4728 | 3533 | |
| **Ground Water Monitoring and Sampling** | | | | | 0 | 0 | 0 | | | 0 | |
| Data Collection and Sampling | Well | 85 | 150 | 12750 | 53708 | 40133 | 29990 | 22410 | 16746 | 12514 | |
| Analysis (Lab Costs) | Sample | 93 | 300 | 27900 | 117525 | 87821 | 65625 | 49039 | 36645 | 27383 | |
| Reports | Day | 5 | 450 | 2250 | 9478 | 7082 | 5292 | 3955 | 2955 | 2208 | |
| 5-yr Report | Day | 2 | 450 | 900 | 849 | 0 | 0 | | | 0 | |
| **Closure** | | | | | | | | | | | |
| Plug and Abandon 63 wells | | | | | | | | | | 15521 | |
| Closure Certification Report | Day | 3 | 450 | 1350 | 0 | 0 | 0 | | | 235 | |
| **Data Tabulation, Eng., Mgnt.** | Salary | 30% | 45,000 | | $56,867 | $42,494 | $31,754 | $23,729 | $17,731 | $13,250 | $154,844 |
| **Total O&M Expenditure** | | | | | $820,236 | $587,428 | $438,960 | $328,017 | $189,056 | $157,030 | $2,174,642 |
| **Summary** | | | | | | | | | | | |
| **Total Remaining Capital Expenditure** | | | | | $99,988 | $0 | $0 | $0 | $0 | $0 | $99,988 |
| **Total O&M Expenditure** | | | | | $820,236 | $587,428 | $438,960 | $328,017 | $189,056 | $157,030 | $2,174,642 |
| **Grand Total** | | | | | | | | | | | $2,274,630 |

NOTES:

[1] 6% is used for the NPV calculation (net of 9% cap rate minus 3% inflation rate).

[2] Three estimates are used to reflect the decreasing time to re-calibrate the model.

# Bibliography

*Attachment 3*

*November 16, 1999*
*W.O. #555-01*

**Environmental Resources Management**
16300 Katy Freeway, Suite 300
Houston, Texas 77094-1611
(281) 579-8999

## Attachment 3

## Bibliography


Chandler, Jr., Pierce, May 18, 1998. *Soil Vapor Extraction (SVE) Work Plan.* For Sparton Technology, Inc., Coors Road Plant, Albuquerque, New Mexico.

EPA Region VI, January 15, 1987. *RCRA Guidance Manual for Subpart G Closure and Postclosure Care Standards and Subpart H Cost Estimating Requirements.* Catalog of Hazardous and Solid Waste, 11th Edition.

EPA Region VI, May 15, 1982. *Financial Assurance for Closure and Postclosure Care; Requirements for Owners and Operators of Hazardous Waste Treatment, Storage, and Disposal Facilities; A Guidance Manual.* Catalog of Hazardous and Solid Waste, 11th Edition.

EPA Region VI, November 15, 1986. *Guidance Manual for Cost Estimates for Closure and Postclosure Plans (Subparts G and H); Volume III; Unit Costs.* Catalog of Hazardous and Solid Waste, 11th Edition.

EPA Region VI, November 15, 1986. *Guidance Manual for Cost Estimates for Closure and Postclosure Plans (Subparts G and H); Volume I: Treatment and Storage Facilities.* Catalog of Hazardous and Solid Waste, 11th Edition.

EPA Region VI, November 15. 1986. *Guidance Manual for Cost Estimates for Closure and Postclosure Plan (Subparts G and H); Volume II: Land Disposal Facilities.* Catalog of Hazardous and Solid Waste, 11th Edition.

Harding Lawson Associates, 9800 Richmond Avenue, Suite 150, Houston, Texas 77042, December 14, 1990; in conjunction with Metric Corporation, 8429 Washington Place, NE, Suite A, Albuquerque, New Mexico, May 1, 1992. *RCRA Facility Investigation. Sparton Technology, Inc., Coors Road Facility, Albuquerque, New Mexico.*

Letter from Tony Hurst to Michael Herbert dated October 22, 1999.

Papadopulos & Associates, Inc., February 18, 1999. *Work Plan for the Assessment of Aquifer Restoration.* Prepared for Sparton Technology, Inc., Coors Road Facility, Albuquerque, New Mexico.

Papadopulos & Associates, Inc., February 18, 1999. *Work Plan for the Installation of a Source Containment System.* Prepared for Sparton Technology, Inc., Coors Road Facility, Albuquerque, New Mexico.

Papadopulos & Associates, Inc., February 18, 1999. *Work Plan for the Off-Site Containment System.* Prepared for Sparton Technology, Inc., Coors Road Facility, Albuquerque, New Mexico.

Papadopulos & Associates, Inc., February 18, 1999. *Work Plan for the Assessment of Aquifer Restoration.* Prepared for Sparton Technology, Inc., Coors Road Facility, Albuquerque, New Mexico.

Rose, John, July 1999. *Coors Road Facility Groundwater Monitoring Program Semi-Annual Progress Report*. Sparton Technology, Inc., Rio Rancho, New Mexico, Reviewed by Metric Corporation, Albuquerque, New Mexico.

Sparton Technology, Inc., November 18, 1998. *Revised Draft Ground Water Monitoring Program Plan*. Coors Road Facility, Albuquerque, New Mexico.

# Guidance and Cost Estimate Calculations

*Attachment 4*

*November 17, 1999*
*W.O. #555-01*

**Environmental Resources Management**
16300 Katy Freeway, Suite 300
Houston, Texas 77094-1611
(281) 579-8999

BS180555-K99

PETROLEUM STORAGE TANK DIVISION

TNRCC

# Reimbursable Cost Guidelines

the
Texas Natural Resource
Conservation Commission P.O. Box 13087, Austin, Texas 78711-3087

# ACTIVITY 11: SITE CLOSURE

This subsection will be used after a Site Closure Request has been reviewed and approved by the TNRCC.

## WORKSHEET FOR SITE CLOSURE

### Part A: Personnel Costs - See Note 1

Section 1: Office Costs

| ITEM | ACTIVITY | UNIT COST | HOURS/UNITS | TOTAL |
|---|---|---|---|---|
| Site Closure Request | Preparation and Submission | $275.00 | 1 | $275.00 |
| Project Manager (PM) | Management and Oversight | $80.00 | 2 | $160.00 |
| Final Closure Report | Preparation and Submission | $195.00 | 1 | $195.00 |
| Workplan and Cost Proposal | Preparation and Submission | $115.00 | 1 | $115.00 |
| | | | Total, Section 1 | $745.00 |

2: Field Personnel Costs

| ITEM | ACTIVITY | UNIT COST | HOURS/ UNITS | TOTAL |
|---|---|---|---|---|
| Technician II (T2) | Plug First Well | $135.00 | 1 | $135.00 |
| Technician II (T2) | Plug Additional Well, <100' Deep | $90.00 | | |
| Technician II (T2) | Plug Additional Well, >100' Deep | $135.00 | | |
| Remediation System Removal- See Note 2 | Remove and dispose of system capital components | $500.00 | | |
| | | | Total, Section 2 | |
| | | | TOTAL, PART A | |

### Part B: Rig Costs - See Note 3

| ITEM | ACTIVITY | UNIT COST | UNITS | TOTAL |
|---|---|---|---|---|
| Mobilization (less than 50 miles) | Transport Rig & Crew to Site | $245.00 | 1 | $245.00 |
| Mileage (over 50, max 450) | Additional Mileage to Site, Round Trip | $2.50 | | |
| → Plug & Abandon Wells | P&A first 25', per well | $300.00 | | |
| → Plug and Abandon Wells | P&A additional footage, 26' to 100', per foot per well | $8.00 | | |
| → Plug and Abandon Wells | P&A additional footage, >100', per foot per well | $10.00 | | |
| Drill Crew Per Diem | Overnight Stay | $190.00 | | |
| | | | Subtotal, Part B | |
| | | | 15% Mark-up | |
| | | | TOTAL, PART B | |

# SPARTON CORPORATION
# COORS ROAD PLANT
# PLUG AND ABANDON COSTS

SOURCE:Revised Draft Ground Water Monitoring Program Plan (11/18/98)

| | Diameter | Total Depth | On-Site | 1999 Status | Cost to P&A (in 1999 dollars) |
|---|---|---|---|---|---|
| MW-1 | 2 | 90 | x | P&A | |
| MW-2 | 2 | 90 | x | P&A | |
| MW-3 | 2 | 85 | x | P&A | |
| MW-4 | 2 | 90 | x | P&A | |
| MW-5 | 2 | 135 | x | P&A | |
| MW-6 | 2 | 150 | x | P&A | |
| MW-7 | 2 | 75.5 | x | | $ 704.00 |
| MW-8 | 2 | 150 | x | P&A | |
| MW-9 | 2 | 80 | x | | $ 740.00 |
| MW-10 | 2 | 150.5 | x | P&A | |
| MW-11 | 2 | 150 | x | P&A | |
| MW-12 | 2 | 140 | x | | $ 1,300.00 |
| MW-13 | 2 | 140 | x | | $ 1,300.00 |
| MW-14 | 2 | 130 | x | | $ 1,200.00 |
| MW-15 | 2 | 140 | x | | $ 1,300.00 |
| MW-16 | 2 | 73 | x | | $ 684.00 |
| MW-17 | 2 | 72 | x | | $ 676.00 |
| MW-18 | 4 | 81 | x | | $ 748.00 |
| MW-19 | 4 | 110 | x | | $ 1,000.00 |
| MW-20 | 4 | 138 | x | | $ 1,280.00 |
| MW-21 | 2 | 69.5 | x | | $ 656.00 |
| MW-22 | 2 | 78 | x | | $ 724.00 |
| MW-23 | 2 | 78 | x | | $ 724.00 |
| MW-24 | 4 | 75 | x | | $ 700.00 |
| MW-25 | 4 | 75 | x | | $ 700.00 |
| PW-1 | 10 | 145 | x | | $ 1,350.00 |
| P-1 | | 90 | x | P&A | |
| MW-26 | 2 | 81 | x | | $ 748.00 |
| MW-27 | 2 | 73 | x | | $ 684.00 |
| MW-28 | 2 | 71 | x | | $ 668.00 |
| MW-29 | 4 | 115.5 | x | | $ 1,055.00 |
| MW-30 | 4 | 109.5 | x | | $ 995.00 |
| MW-31 | 4 | 109 | x | | $ 990.00 |
| MW-32 | 4 | 120 | x | | $ 1,100.00 |
| MW-33 | 2 | 73 | x | | $ 684.00 |
| MW-34 | 2 | 66.5 | | | $ 632.00 |
| MW-35 | 2 | 75 | | | $ 700.00 |
| MW-36 | 2 | 94 | | | $ 852.00 |
| MW-37 | 2 | 126.5 | | | $ 1,165.00 |
| MW-38 | 4 | 137.5 | x | | $ 1,275.00 |
| MW-39 | 4 | 134 | x | | $ 1,240.00 |
| MW-40 | 4 | 128 | x | | $ 1,180.00 |
| MW-41 | 4 | 118 | x | | $ 1,080.00 |
| MW-42 | 4 | 117 | x | | $ 1,070.00 |

# SPARTON CORPORATION
# COORS ROAD PLANT
# PLUG AND ABANDON COSTS

SOURCE:Revised Draft Ground Water Monitoring Program Plan (11/18/98)

| | Diameter | Total Depth | On-Site | 1999 Status | Cost to P&A (in 1999 dollars) |
|---|---|---|---|---|---|
| MW-43 | 4 | 138 | x | | $ 1,280.00 |
| MW-44 | 4 | 120 | | | $ 1,100.00 |
| MW-45 | 4 | 153 | | | $ 1,430.00 |
| MW-46 | 4 | 182 | | | $ 1,720.00 |
| MW-47 | 4 | 197 | | | $ 1,870.00 |
| MW-48 | 4 | 209 | | | $ 1,990.00 |
| MW-49 | 4 | 148 | x | | $ 1,380.00 |
| MW-50 | 4 | 260 | | | $ 2,500.00 |
| MW-51 | 2 | 86 | | | $ 788.00 |
| MW-52 | 4 | 208 | | | $ 1,980.00 |
| MW-53 | 4 | 206 | | | $ 1,960.00 |
| MW-54 | 4 | 132 | | | $ 1,220.00 |
| MW-55 | 4 | 267 | | | $ 2,570.00 |
| MW-56 | 4 | 232 | | | $ 2,220.00 |
| MW-57 | 4 | 144 | | | $ 1,340.00 |
| MW-58 | 4 | 211 | | | $ 2,010.00 |
| MW-59 | 4 | 117 | | | $ 1,070.00 |
| MW-60 | 4 | 197 | | | $ 1,870.00 |
| MW-61 | 4 | 177 | | | $ 1,670.00 |
| MW-62 | 2 | 115 | | | $ 1,050.00 |
| MW-63 | 2 | 98 | | | $ 884.00 |
| MW-64 | 2 | 153 | | | $ 1,430.00 |
| MW-PZ-1 | 2 | 206 | | | $ 1,960.00 |
| MW-65 | 4 | 275 | | | $ 2,650.00 |
| MW-66 | 4 | 217 | | | $ 2,070.00 |
| MW-67 | 4 | 390 | | | $ 3,800.00 |
| MW-68 | 4 | 220 | | | $ 2,100.00 |
| MW-69 | 4 | 270 | | | $ 2,600.00 |
| MW-70 | 2 | 143 | x | | $ 1,330.00 |
| MW-71 | 2 | 356 | | | $ 3,460.00 |
| MW-72 | 2 | 110 | x | | $ 1,000.00 |
| MW-73 | 2 | 104 | x | | $ 940.00 |
| | | | | **TOTAL** | **$ 89,146.00** |

# Spreadsheet Formulas

*Attachment 5*

*November 17, 1999*
*W.O. #555-01*

**Environmental Resources Management**
16300 Katy Freeway, Suite 300
Houston, Texas 77094-1611
(281) 579-8999

| | A | B | C | D | E | F | G | H | I |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | |
| 2 | Sparton Technologies, Inc. | | | | | | | | |
| 3 | Coors Rd. Facility | | | | | | | | |
| 4 | Albequerque, New Mexico 2 | | | | | | | | |
| 5 | 36465 | | | | | | | | |
| 6 | | | | | | | | | |
| 7 | | | | | | | | 2000 | 2001 |
| 8 | **Remaining Capital Expenditures** | | | | | | | | |
| 9 | **Offsite Containment I** | | Unit | No. | Cost/Unit | | | =SUM(H10) | =SUM(I10) |
| 10 | No remaining tasks | | | | | | | | |
| 11 | | | | | | | | | |
| 12 | **Vadose (SVE)** | | | | | | | =SUM(H13) | |
| 13 | Equipment - Procure/Install (1) 20( | | each | 1 | 4500 | =D13*E13 | | 4500 | |
| 14 | | | | | | =D14*E14 | | | |
| 15 | **Source Containment** | | | | | =D15*E15 | | =SUM(H16:H19) | =SUM(I16:I19) |
| 16 | Water Rights Transfer (200 gpm) | | | 1 | 2050 | =D16*E16 | | 2050 | |
| 17 | Equipment - (1) 120' well and (1) 5 | | LS | 1 | 26000 | =D17*E17 | | | 26000 |
| 18 | Equipment - Procure/Install (1) 50( | | LS | 1 | 50000 | =D18*E18 | | | 25000 |
| 19 | Install Ponds / Piping | | Ft2 | 1500 | 16 | =D19*E19 | | | 24000 |
| 20 | **Total Remaining Capital Expenditure** | | | | | | | =H15+H12+H9 | =I15+I12+I9 |
| 21 | | | | | | | | | |
| 22 | **O&M Expenditures** | | | | | | | | |
| 23 | **Offsite Containment II** | | | | | | | =SUM(H24:H31) | =SUM(I24:I31) |
| 24 | Permits / Licenses | | | | | | | | |
| 25 | | Pipeline Easement | LS | 1 | 500 | =D25*E25 | | 500 | 500 |
| 26 | | Arroyos Easement | LS | 1 | 3000 | =D26*E26 | | 3000 | 3000 |
| 27 | Operate System - Power (45hp) & Utilities | | Month | 12 | 1165 | =D27*E27 | | 13980 | 13980 |
| 28 | Influent/Effluent Sampling | | Month | 12 | 350 | =D28*E28 | | 4200 | 4200 |
| 29 | O&M - Equipment | | Month | 12 | 1100 | =D29*E29 | | 13200 | 13200 |
| 30 | O&M - Labor | | Day | 52 | 150 | =D30*E30 | | 7800 | 7800 |
| 31 | Ground water monitoring -see below | | | | | | | | |
| 32 | | | | | | | | | |
| 33 | **Vadose (SVE)** | | | | | | | =SUM(H34:H37) | =SUM(I34:I37) |
| 34 | Operate System - Power | | Month | 12 | 200 | =D34*E34 | | 2400 | 2400 |
| 35 | O&M - Equipment | | Month | 12 | 50 | =D35*E35 | | 600 | 600 |
| 36 | O&M - Labor | | Day | 13 | 150 | =D36*E36 | | 1950 | 1950 |
| 37 | Monitoring - Soil gas samples | | Sample | 66 | 200 | =D37*E37 | | 13200 | 13200 |
| 38 | | | | | | | | | |
| 39 | **Source Containment** | | | | | | | =SUM(H40:H44) | =SUM(I40:I44) |
| 40 | Operate System - Power | | Month | 12 | 1165 | =D40*E40 | | 13980 | 13980 |
| 41 | Influent/Effluent Sampling | | Month | 12 | 350 | =D41*E41 | | 4200 | 4200 |
| 42 | O&M - Equipment | | Month | 12 | 1100 | =D42*E42 | | 13200 | 13200 |
| 43 | O&M - Labor | | Day | 52 | 150 | =D43*E43 | | 7800 | 7800 |
| 44 | Lease of water rights | | LS | 1 | 1200 | =D44*E44 | | 1200 | 1200 |
| 45 | | | | | | | | | |
| 46 | **Monitoring and Reporting** | | | | | | | =SUM(H47:H58) | =SUM(I47:I58) |
| 47 | Progress Reporting | | Month | 12 | 30 | =D47*E47 | | 360 | 360 |
| 48 | Aquifer Model (ERM Estimate)[1] | | Day | 72/15/2 | 600 | =D48*E48 | | 43200 | 43200 |
| 49 | Annual Reports incl.Perf & Alt. Eval. | | Day | 8 | 450 | =D49*E49 | | 3600 | 3600 |
| 50 | | **Ground Water Monitoring and Sampling** | | | | =D50*E50 | | | |
| 51 | | Data Collection and Sampling | Well | 85 | 150 | =D51*E51 | | 12750 | 12750 |
| 52 | | Analysis (Lab Costs) | Sample | 93 | 300 | =D52*E52 | | 27900 | 27900 |
| 53 | | QA/QC and Data Analysis | Day | 5 | 450 | =D53*E53 | | 2250 | 2250 |
| 54 | 5-yr Report | | Day | 2 | 450 | =D54*E54 | | | |
| 55 | | | | | | | | | |
| 56 | **Closure** | | | | | | | | |
| 57 | Plug and Abandon 63 wells | | | | | | | | |
| 58 | Closure Certification Report | | Day | 3 | 450 | =D58*E58 | | | |
| 59 | | | | | | | | | |
| 60 | Data Tabulation, Eng., Mgnt. | | Salary | 0.3 | 45000 | =D60*E60 | | 13500 | 13500 |
| 61 | | | | | | | | | |
| 62 | Total O&M Expenditure | | | | | | | =SUM(H60+H46+H39+H33+H | =SUM(I60+I46+I39+I33+I23) |
| 63 | | | | | | | | | |
| 64 | | | | | | | | | |
| 65 | **Summary** | | | | | | | | |
| 66 | | =A20 | | | | | | =H20 | =I20 |
| 67 | | =A62 | | | | | | =H62 | =I62 |
| 68 | | | | | | | | | |
| 69 | | | | | | | | | |
| 70 | **Sparton Technologies, Inc. (NPV Estimates)[1]** | | | | | | | | |
| 71 | **Coors Rd. Facility** | | | | | | | | |
| 72 | **Albuquerque, New Mexico** | | | | | | | | |
| 73 | **36468** | | | | | | | | |
| 74 | | | | | | | | 30 | =H74-1 |
| 75 | | | | | | | | 2000 | 2001 |
| 76 | **Remaining Capital Expenditures** | | | | | | | | |
| 77 | **Off-site Containment** | | Unit | No./Yr | Cost/Unit | | | =IF(H9=0,0,NPV(6%,H$6,H9) | =SUM(I78) |
| 78 | No remaining tasks | | | | | | | =IF(H10=0," ",NPV(6%,H$6,I- | |
| 79 | | | | | | | | =IF(H11=0," ",NPV(6%,H$6,I- | |
| 80 | **Vadose (SVE)** | | | | | | | =SUM(H81) | |
| 81 | Equipment - Procure/Install (1) 200scfm blowers | | =C13 | =D13 | =E13 | =F13 | | =IF(H13=0," ",NPV(6%,H13)) | |
| 82 | | | | | | =F14 | | =IF(H14=0," ",NPV(6%,H$6,I- | |
| 83 | **Source Containment** | | | | | | | =SUM(H84) | =SUM(I84:I87) |

| | A | B | C | D | E | F | G | H | I |
|---|---|---|---|---|---|---|---|---|---|
| 7 | | | | | | | | 2000 | 2001 |
| 86 | Equipment - Procure/Install (1) 50gpm Air Stripper | | =C18 | =D18 | =E18 | =F18 | | =IF(H18=0," ",NPV(6%,H$6,H | =IF(I18=0," ",NPV(6.6%,I18)) |
| 87 | Install Ponds / Piping | | =C19 | =D19 | =E19 | =F19 | | =IF(H19=0," ",NPV(6%,H$6,H | =IF(I19=0," ",NPV(6.6%,I19)) |
| 88 | | | | | | | | | |
| 89 | **Total Remaining Capital Expenditure** | | | | | | | =H83+H80+H77 | =I83+I80+I77 |
| 90 | | | | | | | | | |
| 91 | **O&M Expenditures** | | | | | | | | |
| 92 | **Off-site Containment** | | | | | | | =SUM(H93:H100) | =SUM(I93:I100) |
| 93 | Permits / Licenses | | Unit | No./Yr | Cost/Unit | | | | |
| 94 | | Pipeline Easement | =C25 | =D25 | =E25 | =F25 | | =IF(H25=0," ",NPV(6%,H25)) | =IF(I25=0," ",NPV(6%, H94)) |
| 95 | | Arroyos Easement | =C26 | =D26 | =E26 | =F26 | | =IF(H26=0," ",NPV(6%,H26)) | =IF(I26=0," ",NPV(6%, H95)) |
| 96 | Operate System - Power (45hp) & Utilities | | =C27 | =D27 | =E27 | =F27 | | =IF(H27=0," ",NPV(6%,H27)) | =IF(I27=0," ",NPV(6%, H96)) |
| 97 | Influent/Effluent Sampling | | =C28 | =D28 | =E28 | =F28 | | =IF(H28=0," ",NPV(6%,H28)) | =IF(I28=0," ",NPV(6%, H97)) |
| 98 | O&M - Equipment | | =C29 | =D29 | =E29 | =F29 | | =IF(H29=0," ",NPV(6%,H29)) | =IF(I29=0," ",NPV(6%, H98)) |
| 99 | O&M - Labor | | =C30 | =D30 | =E30 | =F30 | | =IF(H30=0," ",NPV(6%,H30)) | =IF(I30=0," ",NPV(6%, H99)) |
| 100 | Ground water monitoring -see below | | | | | | | | |
| 101 | | | | | | | | | |
| 102 | **Vadose (SVE)** | | | | | | | =SUM(H103:H106) | =SUM(I103:I106) |
| 103 | Operate System - Power | | =C34 | =D34 | =E34 | =F34 | | =IF(H34=0," ",NPV(6%,H34)) | =IF(I34=0," ",NPV(6%,H103)) |
| 104 | O&M - Equipment | | =C35 | =D35 | =E35 | =F35 | | =IF(H35=0," ",NPV(6%,H35)) | =IF(I35=0," ",NPV(6%,H104)) |
| 105 | O&M - Labor | | =C36 | =D36 | =E36 | =F36 | | =IF(H36=0," ",NPV(6%,H36)) | =IF(I36=0," ",NPV(6%,H105)) |
| 106 | Monitoring - Soil gas samples | | =C37 | =D37 | =E37 | =F37 | | =IF(H37=0," ",NPV(6%,H37)) | =IF(I37=0," ",NPV(6%,H106)) |
| 107 | | | | | | | | | |
| 108 | **Source Containment** | | | | | | | =SUM(H109:H113) | =SUM(I109:I113) |
| 109 | Operate System - Power | | =C40 | =D40 | =E40 | =F40 | | =IF(H40=0," ",NPV(6%,H40)) | =IF(I40=0," ",NPV(6%,H109)) |
| 110 | Influent/effluent Sampling | | =C41 | =D41 | =E41 | =F41 | | =IF(H41=0," ",NPV(6%,H41)) | =IF(I41=0," ",NPV(6%,H110)) |
| 111 | O&M - Equipment | | =C42 | =D42 | =E42 | =F42 | | =IF(H42=0," ",NPV(6%,H42)) | =IF(I42=0," ",NPV(6%,H111)) |
| 112 | O&M - Labor | | =C43 | =D43 | =E43 | =F43 | | =IF(H43=0," ",NPV(6%,H43)) | =IF(I43=0," ",NPV(6%,H112)) |
| 113 | Lease of water rights | | =C44 | =D44 | =E44 | =F44 | | =IF(H44=0," ",NPV(6%,H44)) | =IF(I44=0," ",NPV(6%,H113)) |
| 114 | | | | | | | | | |
| 115 | **Monitoring and Reporting** | | | | | | | =SUM(H116:H127) | =SUM(I116:I127) |
| 116 | Progress Reporting | | =C47 | =D47 | =E47 | =F47 | | =IF(H47=0," ",NPV(6%,H47)) | =IF(I47=0," ",NPV(6%,H116)) |
| 117 | Aquifer Model (ERM Estimate)[2] | | =C48 | =D48 | =E48 | =F48 | | =IF(H48=0," ",NPV(6%,H48)) | =IF(I48=0," ",NPV(6%,H117)) |
| 118 | Annual Reports Including Performance Monitoring and Alternative Analysis | | =C49 | =D49 | =E49 | =F49 | | =IF(H49=0," ",NPV(6%,H49)) | =IF(I49=0," ",NPV(6%,H118)) |
| 119 | | **Ground Water Monitoring and Sampling** | | | | | | =IF(H50=0," ",NPV(6%,H50)) | =IF(I50=0," ",NPV(6%,H119)) |
| 120 | | Data Collection and Sampling | =C51 | =D51 | =E51 | =F51 | | =IF(H51=0," ",NPV(6%,H51)) | =IF(I51=0," ",NPV(6%,H120)) |
| 121 | | Analysis (Lab Costs) | =C52 | =D52 | =E52 | =F52 | | =IF(H52=0," ",NPV(6%,H52)) | =IF(I52=0," ",NPV(6%,H121)) |
| 122 | | Reports | =C53 | =D53 | =E53 | =F53 | | =IF(H53=0," ",NPV(6%,H53)) | =IF(I53=0," ",NPV(6%,H122)) |
| 123 | 5-yr Report | | =C54 | =D54 | =E54 | =F54 | | =IF(H54=0," ",NPV(6%,H54)) | =IF(I54=0," ",NPV(6%,H123)) |
| 124 | | | | | | | | | |
| 125 | **Closure** | | | | | | | | |
| 126 | Plug and Abandon 63 wells | | | | | | | =IF(H57=0," ",NPV(6%,H57)) | =IF(I57=0," ",NPV(6%,H126)) |
| 127 | Closure Certification Report | | =C58 | =D58 | =E58 | =F58 | | =IF(H58=0," ",NPV(6%,H58)) | =IF(I58=0," ",NPV(6%,H127)) |
| 128 | | | | | | | | | |
| 129 | **Data Tabulation, Eng., Mgnt.** | | Salary | 0.3 | 45000 | | | =IF(H60=0," ",NPV(6%,H60)) | =IF(I60=0," ",NPV(6%,H129)) |
| 130 | | | | | | | | | |
| 131 | **Total O&M Expenditure** | | | | | | | =SUM(H129+H115+H108+H1 | =SUM(I129+I115+I108+I102+ |
| 132 | | | | | | | | | |
| 133 | | | | | | | | | |
| 134 | **Summary** | | | | | | | | |
| 135 | | **=A89** | | | | | | =H89 | =I89 |
| 136 | | **=A131** | | | | | | =H131 | =I131 |
| 137 | | **Grand Total** | | | | | | | |
| 138 | NOTES: | | | | | | | | |
| 139 | [1] 6% is used for the NPV calculation (net of 9% cap rate minus 3% inflation rate). | | | | | | | | |
| 140 | [2] Three estimates are used to reflect the decreasing time to re-calibrate the model. | | | | | | | | |

| | A | J | K | L | M | N | O | P | Q |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | |
| 2 | Sparton Technologies, Inc. | | | | | | | | |
| 3 | Coors Rd. Facility | | | | | | | | |
| 4 | Albequerque, New Mexico 2 | | | | | | | | |
| 5 | 36465 | | | | | | | | |
| 6 | | | | | | | | | |
| 7 | | 2002 | 2003 | 2004 | 2000-2004 | 2005 | 2006 | 2007 | 2008 |
| 8 | **Remaining Capital Expenditures** | | | | | | | | |
| 9 | **Offsite Containment I** | =SUM(J10) | =SUM(K10) | =SUM(L10) | =SUM(H9:L9) | =SUM(N10) | =SUM(O10) | =SUM(P10) | =SUM(Q10) |
| 10 | No remaining tasks | | | | | | | | |
| 11 | | | | | | | | | |
| 12 | **Vadose (SVE)** | | | | =SUM(H12:L12) | | | | |
| 13 | Equipment - Procure/Install (1) 20( | | | | =SUM(H13:L13) | | | | |
| 14 | | | | | | | | | |
| 15 | **Source Containment** | | | | =SUM(H15:L15) | | | | |
| 16 | Water Rights Transfer (200 gpm) | | | | =SUM(H16:L16) | | | | |
| 17 | Equipment - (1) 120' well and (1) 5 | | | | =SUM(H17:L17) | | | | |
| 18 | Equipment - Procure/Install (1) 50( | | | | =SUM(H18:L18) | | | | |
| 19 | Install Ponds / Piping | | | | =SUM(H19:L19) | | | | |
| 20 | **Total Remaining Capital Expendi** | =J15+J12+J9 | =K15+K12+K9 | =L15+L12+L9 | =M15+M12+M9 | =N15+N12+N9 | =O15+O12+O9 | =P15+P12+P9 | =Q15+Q12+Q9 |
| 21 | | | | | | | | | |
| 22 | **O&M Expenditures** | | | | | | | | |
| 23 | **Offsite Containment II** | =SUM(J24:J31) | =SUM(K24:K31) | =SUM(L24:L31) | =SUM(H23:L23) | =SUM(N24:N31) | =SUM(O24:O31) | =SUM(P24:P31) | =SUM(Q24:Q31) |
| 24 | Permits / Licenses | | | | | | | | |
| 25 | | 500 | 500 | 500 | =SUM(H25:L25) | 500 | 500 | 500 | 500 |
| 26 | | 3000 | 3000 | 3000 | =SUM(H26:L26) | 3000 | 3000 | 3000 | 3000 |
| 27 | Operate System - Power (45hp) & | 13980 | 13980 | 13980 | =SUM(H27:L27) | 13980 | 13980 | 13980 | 13980 |
| 28 | Influent/Effluent Sampling | 4200 | 4200 | 4200 | =SUM(H28:L28) | 4200 | 4200 | 4200 | 4200 |
| 29 | O&M - Equipment | 13200 | 13200 | 13200 | =SUM(H29:L29) | 13200 | 13200 | 13200 | 13200 |
| 30 | O&M - Labor | 7800 | 7800 | 7800 | =SUM(H30:L30) | 7800 | 7800 | 7800 | 7800 |
| 31 | Ground water monitoring -see belo | | | | | | | | |
| 32 | | | | | | | | | |
| 33 | **Vadose (SVE)** | =SUM(J34:J37) | =SUM(K34:K37) | =SUM(L34:L37) | =SUM(H33:L33) | =SUM(N34:N37) | =SUM(O34:O37) | =SUM(P34:P37) | =SUM(Q34:Q37) |
| 34 | Operate System - Power | | | | =SUM(H34:L34) | | | | |
| 35 | O&M - Equipment | | | | =SUM(H35:L35) | | | | |
| 36 | O&M - Labor | | | | =SUM(H36:L36) | | | | |
| 37 | Monitoring - Soil gas samples | | | | =SUM(H37:L37) | | | | |
| 38 | | | | | | | | | |
| 39 | **Source Containment** | =SUM(J40:J44) | =SUM(K40:K44) | =SUM(L40:L44) | =SUM(H39:L39) | =SUM(N40:N44) | =SUM(O40:O44) | =SUM(P40:P44) | =SUM(Q40:Q44) |
| 40 | Operate System - Power | 13980 | 13980 | 13980 | =SUM(H40:L40) | 13980 | 13980 | 13980 | 13980 |
| 41 | Influent/Effluent Sampling | 4200 | 4200 | 4200 | =SUM(H41:L41) | 4200 | 4200 | 4200 | 4200 |
| 42 | O&M - Equipment | 13200 | 13200 | 13200 | =SUM(H42:L42) | 13200 | 13200 | 13200 | 13200 |
| 43 | O&M - Labor | 7800 | 7800 | 7800 | =SUM(H43:L43) | 7800 | 7800 | 7800 | 7800 |
| 44 | Lease of water rights | 1200 | 1200 | 1200 | =SUM(H44:L44) | 1200 | 1200 | 1200 | 1200 |
| 45 | | | | | | | | | |
| 46 | **Monitoring and Reporting** | =SUM(J47:J58) | =SUM(K47:K58) | =SUM(L47:L58) | =SUM(H46:L46) | =SUM(N47:N58) | =SUM(O47:O58) | =SUM(P47:P58) | =SUM(Q47:Q58) |
| 47 | Progress Reporting | 360 | 360 | 360 | =SUM(H47:L47) | 390 | 390 | 390 | 390 |
| 48 | Aquifer Model (ERM Estimate)[1] | 43200 | 9000 | 9000 | =SUM(H48:L48) | 9000 | 9000 | 9000 | 1200 |
| 49 | Annual Reports incl.Perf & Alt. Eva | 3600 | 3600 | 3600 | =SUM(H49:L49) | 3600 | 3600 | 3600 | 3600 |
| 50 | | | | | =SUM(H50:L50) | | | | |
| 51 | | 12750 | 12750 | 12750 | =SUM(H51:L51) | 12750 | 12750 | 12750 | 12750 |
| 52 | | 27900 | 27900 | 27900 | =SUM(H52:L52) | 27900 | 27900 | 27900 | 27900 |
| 53 | | 2250 | 2250 | 2250 | =SUM(H53:L53) | 2250 | 2250 | 2250 | 2250 |
| 54 | 5-yr Report | | | 900 | =SUM(H54:L54) | | | | |
| 55 | | | | | | | | | |
| 56 | **Closure** | | | | | | | | |
| 57 | Plug and Abandon 63 wells | | | | | | | | |
| 58 | Closure Certification Report | | | | =SUM(H58:L58) | | | | |
| 59 | | | | | | | | | |
| 60 | **Data Tabulation, Eng., Mgnt.** | 13500 | 13500 | 13500 | =SUM(H60:L60) | 13500 | 13500 | 13500 | 13500 |
| 61 | | | | | | | | | |
| 62 | **Total O&M Expenditure** | =SUM(J60+J46+J39+J33+J2 | =SUM(K60+K46+K39+K33+I | =SUM(L60+L46+L39+L33+L23) | =SUM(M60+M46+M39+M33+M23) | =SUM(N60+N46+N39+N33+I | =SUM(O60+O46+O39+O33+( | =SUM(P60+P46+P39+P33+P | =SUM(Q60+Q46+Q39+Q33+( |
| 63 | | | | | | | | | |
| 64 | | | | | | | | | |
| 65 | **Summary** | | | | | | | | |
| 66 | | =J20 | =K20 | =L20 | =SUM(H66:L66) | =N20 | =O20 | =P20 | =Q20 |
| 67 | | =J62 | =K62 | =L62 | =SUM(H67:L67) | =N62 | =O62 | =P62 | =Q62 |
| 68 | | | | | | | | | |
| 69 | | | | | | | | | |
| 70 | **Sparton Technologies, Inc. (NPV** | | | | | | | | |
| 71 | **Coors Rd. Facility** | | | | | | | | |
| 72 | **Albuquerque, New Mexico** | | | | | | | | |
| 73 | **36468** | | | | | | | | |
| 74 | | =I74-1 | =J74-1 | =K74-1 | | =L74-1 | =N74-1 | =O74-1 | =P74-1 |
| 75 | | 2002 | 2003 | 2004 | 2000-2004 | 2005 | 2006 | 2007 | 2008 |
| 76 | **Remaining Capital Expenditures** | | | | | | | | |
| 77 | **Off-site Containment** | =SUM(J78) | =SUM(K78) | =SUM(L78) | =SUM(H77:L77) | =SUM(N78) | =SUM(O78) | =SUM(P78) | =SUM(Q78) |
| 78 | No remaining tasks | | | | | | | | |
| 79 | | | | | | | | | |
| 80 | **Vadose (SVE)** | | | | =SUM(H80:L80) | | | | |
| 81 | Equipment - Procure/Install (1) 200 | | | | =SUM(H81:L81) | | | | |
| 82 | | | | | | | | | |
| 83 | **Source Containment** | | | | =SUM(H83:L83) | | | | |

| | A | J | K | L | M | N | O | P | Q |
|---|---|---|---|---|---|---|---|---|---|
| 7 | | 2002 | 2003 | 2004 | 2000-2004 | 2005 | 2006 | 2007 | 2008 |
| 86 | Equipment - Procure/Install (1) 50g | | | | =SUM(H86:L86) | | | | |
| 87 | Install Ponds / Piping | | | | =SUM(H87:L87) | | | | |
| 88 | | | | | | | | | |
| 89 | **Total Remaining Capital Expendi** | =J83+J80+J77 | =K83+K80+K77 | =L83+L80+L77 | =M83+M80+M77 | =N83+N80+N77 | =O83+O80+O77 | =P83+P80+P77 | =Q83+Q80+Q77 |
| 90 | | | | | | | | | |
| 91 | **O&M Expenditures** | | | | | | | | |
| 92 | **Off-site Containment** | =SUM(J93:J100) | =SUM(K93:K100) | =SUM(L93:L100) | =SUM(H92:L92) | =SUM(N93:N100) | =SUM(O93:O100) | =SUM(P93:P100) | =SUM(Q93:Q100) |
| 93 | Permits / Licenses | | | | | | | | |
| 94 | | =IF(J25=0," ",NPV(6%, I94)) | =IF(K25=0," ",NPV(6%, J94)) | =IF(L25=0," ",NPV(6%, K94)) | =SUM(H94:L94) | =IF(N25=0," ",NPV(6%,L94)) | =IF(O25=0," ",NPV(6%,N94)) | =IF(P25=0," ",NPV(6%,O94)) | =IF(Q25=0," ",NPV(6%,P94)) |
| 95 | | =IF(J26=0," ",NPV(6%, I95)) | =IF(K26=0," ",NPV(6%, J95)) | =IF(L26=0," ",NPV(6%, K95)) | =SUM(H95:L95) | =IF(N26=0," ",NPV(6%,L95)) | =IF(O26=0," ",NPV(6%,N95)) | =IF(P26=0," ",NPV(6%,O95)) | =IF(Q26=0," ",NPV(6%,P95)) |
| 96 | Operate System - Power (45hp) & | =IF(J27=0," ",NPV(6%, I96)) | =IF(K27=0," ",NPV(6%, J96)) | =IF(L27=0," ",NPV(6%, K96)) | =SUM(H96:L96) | =IF(N27=0," ",NPV(6%,L96)) | =IF(O27=0," ",NPV(6%,N96)) | =IF(P27=0," ",NPV(6%,O96)) | =IF(Q27=0," ",NPV(6%,P96)) |
| 97 | Influent/Effluent Sampling | =IF(J28=0," ",NPV(6%, I97)) | =IF(K28=0," ",NPV(6%, J97)) | =IF(L28=0," ",NPV(6%, K97)) | =SUM(H97:L97) | =IF(N28=0," ",NPV(6%,L97)) | =IF(O28=0," ",NPV(6%,N97)) | =IF(P28=0," ",NPV(6%,O97)) | =IF(Q28=0," ",NPV(6%,P97)) |
| 98 | O&M - Equipment | =IF(J29=0," ",NPV(6%, I98)) | =IF(K29=0," ",NPV(6%, J98)) | =IF(L29=0," ",NPV(6%, K98)) | =SUM(H98:L98) | =IF(N29=0," ",NPV(6%,L98)) | =IF(O29=0," ",NPV(6%,N98)) | =IF(P29=0," ",NPV(6%,O98)) | =IF(Q29=0," ",NPV(6%,P98)) |
| 99 | O&M - Labor | =IF(J30=0," ",NPV(6%, I99)) | =IF(K30=0," ",NPV(6%, J99)) | =IF(L30=0," ",NPV(6%, K99)) | =SUM(H99:L99) | =IF(N30=0," ",NPV(6%,L99)) | =IF(O30=0," ",NPV(6%,N99)) | =IF(P30=0," ",NPV(6%,O99)) | =IF(Q30=0," ",NPV(6%,P99)) |
| 100 | Ground water monitoring -see belo | | | | | | | | |
| 101 | | | | | | | | | |
| 102 | **Vadose (SVE)** | =SUM(J103:J106) | =SUM(K103:K106) | =SUM(L103:L106) | =SUM(H102:L102) | =SUM(N103:N106) | =SUM(O103:O106) | =SUM(P103:P106) | =SUM(Q103:Q106) |
| 103 | Operate System - Power | | | | =SUM(H103:L103) | | | | |
| 104 | O&M - Equipment | | | | =SUM(H104:L104) | | | | |
| 105 | O&M - Labor | | | | =SUM(H105:L105) | | | | |
| 106 | Monitoring - Soil gas samples | =IF(J37=0," ",NPV(6%,J$6,I1( | | | =SUM(H106:L106) | | | | |
| 107 | | | | | | | | | |
| 108 | **Source Containment** | =SUM(J109:J113) | =SUM(K109:K113) | =SUM(L109:L113) | =SUM(H108:L108) | =SUM(N109:N113) | =SUM(O109:O113) | =SUM(P109:P113) | =SUM(Q109:Q113) |
| 109 | Operate System - Power | =IF(J40=0," ",NPV(6%,I109)) | =IF(K40=0," ",NPV(6%,J109)) | =IF(L40=0," ",NPV(6%,K109)) | =SUM(H109:L109) | =IF(N40=0," ",NPV(6%,L109)) | =IF(O40=0," ",NPV(6%,N109) | =IF(P40=0," ",NPV(6%,O109) | =IF(Q40=0," ",NPV(6%,P109) |
| 110 | Influent/effluent Sampling | =IF(J41=0," ",NPV(6%,I110)) | =IF(K41=0," ",NPV(6%,J110)) | =IF(L41=0," ",NPV(6%,K110)) | =SUM(H110:L110) | =IF(N41=0," ",NPV(6%,L110)) | =IF(O41=0," ",NPV(6%,N110) | =IF(P41=0," ",NPV(6%,O110) | =IF(Q41=0," ",NPV(6%,P110) |
| 111 | O&M - Equipment | =IF(J42=0," ",NPV(6%,I111)) | =IF(K42=0," ",NPV(6%,J111)) | =IF(L42=0," ",NPV(6%,K111)) | =SUM(H111:L111) | =IF(N42=0," ",NPV(6%,L111)) | =IF(O42=0," ",NPV(6%,N111) | =IF(P42=0," ",NPV(6%,O111) | =IF(Q42=0," ",NPV(6%,P111) |
| 112 | O&M - Labor | =IF(J43=0," ",NPV(6%,I112)) | =IF(K43=0," ",NPV(6%,J112)) | =IF(L43=0," ",NPV(6%,K112)) | =SUM(H112:L112) | =IF(N43=0," ",NPV(6%,L112)) | =IF(O43=0," ",NPV(6%,N112) | =IF(P43=0," ",NPV(6%,O112) | =IF(Q43=0," ",NPV(6%,P112) |
| 113 | Lease of water rights | =IF(J44=0," ",NPV(6%,I113)) | =IF(K44=0," ",NPV(6%,J113)) | =IF(L44=0," ",NPV(6%,K113)) | =SUM(H113:L113) | =IF(N44=0," ",NPV(6%,L113)) | =IF(O44=0," ",NPV(6%,N113) | =IF(P44=0," ",NPV(6%,O113) | =IF(Q44=0," ",NPV(6%,P113) |
| 114 | | | | | | | | | |
| 115 | **Monitoring and Reporting** | =SUM(J116:J127) | =SUM(K116:K127) | =SUM(L116:L127) | =SUM(H115:L115) | =SUM(N116:N127) | =SUM(O116:O127) | =SUM(P116:P127) | =SUM(Q116:Q127) |
| 116 | Progress Reporting | =IF(J47=0," ",NPV(6%,I116)) | =IF(K47=0," ",NPV(6%,J116)) | =IF(L47=0," ",NPV(6%,K116)) | =SUM(H116:L116) | =IF(N47=0," ",NPV(6%,L116)) | =IF(O47=0," ",NPV(6%,N116) | =IF(P47=0," ",NPV(6%,O116) | =IF(Q47=0," ",NPV(6%,P116) |
| 117 | Aquifer Model (ERM Estimate)[2] | =IF(J48=0," ",NPV(6%,I117)) | =IF(K48=0," ",NPV(6%,J117)) | =IF(L48=0," ",NPV(6%,K117)) | =SUM(H117:L117) | =IF(N48=0," ",NPV(6%,L117)) | =IF(O48=0," ",NPV(6%,N117) | =IF(P48=0," ",NPV(6%,O117) | =IF(Q48=0," ",NPV(6%,P117) |
| 118 | Annual Reports including Performa | =IF(J49=0," ",NPV(6%,I118)) | =IF(K49=0," ",NPV(6%,J118)) | =IF(L49=0," ",NPV(6%,K118)) | =SUM(H118:L118) | =IF(N49=0," ",NPV(6%,L118)) | =IF(O49=0," ",NPV(6%,N118) | =IF(P49=0," ",NPV(6%,O118) | =IF(Q49=0," ",NPV(6%,P118) |
| 119 | | =IF(J50=0," ",NPV(6%,I119)) | =IF(K50=0," ",NPV(6%,J119)) | =IF(L50=0," ",NPV(6%,K119)) | =SUM(H119:L119) | =IF(N50=0," ",NPV(6%,L119)) | =IF(O50=0," ",NPV(6%,N119) | =IF(P50=0," ",NPV(6%,O119) | =IF(Q50=0," ",NPV(6%,P119) |
| 120 | | =IF(J51=0," ",NPV(6%,I120)) | =IF(K51=0," ",NPV(6%,J120)) | =IF(L51=0," ",NPV(6%,K120)) | =SUM(H120:L120) | =IF(N51=0," ",NPV(6%,L120)) | =IF(O51=0," ",NPV(6%,N120) | =IF(P51=0," ",NPV(6%,O120) | =IF(Q51=0," ",NPV(6%,P120) |
| 121 | | =IF(J52=0," ",NPV(6%,I121)) | =IF(K52=0," ",NPV(6%,J121)) | =IF(L52=0," ",NPV(6%,K121)) | =SUM(H121:L121) | =IF(N52=0," ",NPV(6%,L121)) | =IF(O52=0," ",NPV(6%,N121) | =IF(P52=0," ",NPV(6%,O121) | =IF(Q52=0," ",NPV(6%,P121) |
| 122 | | =IF(J53=0," ",NPV(6%,I122)) | =IF(K53=0," ",NPV(6%,J122)) | =IF(L53=0," ",NPV(6%,K122)) | =SUM(H122:L122) | =IF(N53=0," ",NPV(6%,L122)) | =IF(O53=0," ",NPV(6%,N122) | =IF(P53=0," ",NPV(6%,O122) | =IF(Q53=0," ",NPV(6%,P122) |
| 123 | 5-yr Report | =IF(J54=0," ",NPV(6%,I123)) | =IF(K54=0," ",NPV(6%,J123)) | =IF(L54=0," ",NPV(6%,L54)) | =SUM(H123:L123) | =IF(N54=0," ",NPV(6%,L123)) | =IF(O54=0," ",NPV(6%,N123) | =IF(P54=0," ",NPV(6%,O123) | =IF(Q54=0," ",NPV(6%,P123) |
| 124 | | | | | | | | | |
| 125 | **Closure** | | | | | | | | |
| 126 | Plug and Abandon 63 wells | =IF(J57=0," ",NPV(6%,I126)) | =IF(K57=0," ",NPV(6%,J126)) | =IF(L57=0," ",NPV(6%,K126)) | | =IF(N57=0," ",NPV(6%,L126)) | =IF(O57=0," ",NPV(6%,N126) | =IF(P57=0," ",NPV(6%,O126) | =IF(Q57=0," ",NPV(6%,P126) |
| 127 | Closure Certification Report | =IF(J58=0," ",NPV(6%,I127)) | =IF(K58=0," ",NPV(6%,J127)) | =IF(L58=0," ",NPV(6%,K127)) | =SUM(H127:L127) | =IF(N58=0," ",NPV(6%,L127)) | =IF(O58=0," ",NPV(6%,N127) | =IF(P58=0," ",NPV(6%,O127) | =IF(Q58=0," ",NPV(6%,P127) |
| 128 | | | | | | | | | |
| 129 | Data Tabulation, Eng., Mgnt. | =IF(J60=0," ",NPV(6%,I129)) | =IF(K60=0," ",NPV(6%,J129) | =IF(L60=0," ",NPV(6%,K129)) | =SUM(H129:L129) | =IF(N60=0," ",NPV(6%,L129) | =IF(O60=0," ",NPV(6%,N129' | =IF(P60=0," ",NPV(6%,O129) | =IF(Q60=0," ",NPV(6%,P129 |
| 130 | | | | | | | | | |
| 131 | **Total O&M Expenditure** | =SUM(J129+J115+J108+J10 | =SUM(K129+K115+K108+K1 | =SUM(L129+L115+L108+L102+ | =SUM(M129+M115+M108+M102+ | =SUM(N129+N115+N108+N1 | =SUM(O129+O115+O108+O' | =SUM(P129+P115+P108+P1 | =SUM(Q129+Q115+Q108+Q |
| 132 | | | | | | | | | |
| 133 | | | | | | | | | |
| 134 | **Summary** | | | | | | | | |
| 135 | | =J89 | =K89 | =L89 | =SUM(H135:L135) | =N89 | =O89 | =P89 | =Q89 |
| 136 | | =J131 | =K131 | =L131 | =SUM(H136:L136) | =N131 | =O131 | =P131 | =Q131 |
| 137 | | | | | | | | | |
| 138 | NOTES: | | | | | | | | |
| 139 | [1] 6% is used for the NPV calculatio | | | | | | | | |
| 140 | [2] Three estimates are used to reflec | | | | | | | | |

| | A | R | S | T | U | V | W | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | |
| 2 | Sparton Technologies, Inc. | | | | | | | | |
| 3 | Coors Rd. Facility | | | | | | | | |
| 4 | Albequerque, New Mexico 2 | | | | | | | | |
| 5 | 36465 | | | | | | | | |
| 6 | | | | | | | | | |
| 7 | | 2009 | 2005-2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2010-2014 |
| 8 | **Remaining Capital Expenditures** | | | | | | | | |
| 9 | **Offsite Containment I** | =SUM(R10) | =SUM(N9:R9) | =SUM(T10) | =SUM(U10) | =SUM(V10) | =SUM(W10) | =SUM(X10) | =SUM(T9:X9) |
| 10 | No remaining tasks | | | | | | | | |
| 11 | | | | | | | | | |
| 12 | **Vadose (SVE)** | | =SUM(N12:R12) | | | | | | =SUM(T12:X12) |
| 13 | Equipment - Procure/Install (1) 20( | | =SUM(N13:R13) | | | | | | =SUM(T13:X13) |
| 14 | | | | | | | | | |
| 15 | **Source Containment** | | =SUM(N15:R15) | | | | | | =SUM(T15:X15) |
| 16 | Water Rights Transfer (200 gpm) | | =SUM(N16:R16) | | | | | | =SUM(T16:X16) |
| 17 | Equipment - (1) 120' well and (1) 5 | | =SUM(N17:R17) | | | | | | =SUM(T17:X17) |
| 18 | Equipment - Procure/Install (1) 50( | | =SUM(N18:R18) | | | | | | =SUM(T18:X18) |
| 19 | Install Ponds / Piping | | =SUM(N19:R19) | | | | | | =SUM(T19:X19) |
| 20 | **Total Remaining Capital Expendi** | =R15+R12+R9 | =S15+S12+S9 | =T15+T12+T9 | =U15+U12+U9 | =V15+V12+V9 | =W15+W12+W9 | =X15+X12+X9 | =Y15+Y12+Y9 |
| 21 | | | | | | | | | |
| 22 | **O&M Expenditures** | | | | | | | | |
| 23 | **Offsite Containment II** | =SUM(R24:R31) | =SUM(N23:R23) | =SUM(T24:T31) | =SUM(U24:U31) | =SUM(V24:V31) | =SUM(W24:W31) | =SUM(X24:X31) | =SUM(T23:X23) |
| 24 | Permits / Licenses | | | | | | | | |
| 25 | | 500 | =SUM(N25:R25) | 500 | 500 | 500 | 500 | 500 | =SUM(T25:X25) |
| 26 | | 3000 | =SUM(N26:R26) | 3000 | 3000 | 3000 | 3000 | 3000 | =SUM(T26:X26) |
| 27 | Operate System - Power (45hp) & | 13980 | =SUM(N27:R27) | 13980 | 13980 | 13980 | 13980 | 13980 | =SUM(T27:X27) |
| 28 | Influent/Effluent Sampling | 4200 | =SUM(N28:R28) | 4200 | 4200 | 4200 | 4200 | 4200 | =SUM(T28:X28) |
| 29 | O&M - Equipment | 13200 | =SUM(N29:R29) | 13200 | 13200 | 13200 | 13200 | 13200 | =SUM(T29:X29) |
| 30 | O&M - Labor | 7800 | =SUM(N30:R30) | 7800 | 7800 | 7800 | 7800 | 7800 | =SUM(T30:X30) |
| 31 | Ground water monitoring -see belo | | | | | | | | |
| 32 | | | | | | | | | |
| 33 | **Vadose (SVE)** | =SUM(R34:R37) | =SUM(N33:R33) | =SUM(T34:T37) | =SUM(U34:U37) | =SUM(V34:V37) | =SUM(W34:W37) | =SUM(X34:X37) | =SUM(T33:X33) |
| 34 | Operate System - Power | | =SUM(N34:R34) | | | | | | =SUM(T34:X34) |
| 35 | O&M - Equipment | | =SUM(N35:R35) | | | | | | =SUM(T35:X35) |
| 36 | O&M - Labor | | =SUM(N36:R36) | | | | | | =SUM(T36:X36) |
| 37 | Monitoring - Soil gas samples | | =SUM(N37:R37) | | | | | | =SUM(T37:X37) |
| 38 | | | | | | | | | |
| 39 | **Source Containment** | =SUM(R40:R44) | =SUM(N39:R39) | =SUM(T40:T44) | =SUM(U40:U44) | =SUM(V40:V44) | =SUM(W40:W44) | =SUM(X40:X44) | =SUM(T39:X39) |
| 40 | Operate System - Power | 13980 | =SUM(N40:R40) | 13980 | 13980 | 13980 | 13980 | 13980 | =SUM(T40:X40) |
| 41 | Influent/Effluent Sampling | 4200 | =SUM(N41:R41) | 4200 | 4200 | 4200 | 4200 | 4200 | =SUM(T41:X41) |
| 42 | O&M - Equipment | 13200 | =SUM(N42:R42) | 13200 | 13200 | 13200 | 13200 | 13200 | =SUM(T42:X42) |
| 43 | O&M - Labor | 7800 | =SUM(N43:R43) | 7800 | 7800 | 7800 | 7800 | 7800 | =SUM(T43:X43) |
| 44 | Lease of water rights | 1200 | =SUM(N44:R44) | 1200 | 1200 | 1200 | 1200 | 1200 | =SUM(T44:X44) |
| 45 | | | | | | | | | |
| 46 | **Monitoring and Reporting** | =SUM(R47:R58) | =SUM(N46:R46) | =SUM(T47:T58) | =SUM(U47:U58) | =SUM(V47:V58) | =SUM(W47:W58) | =SUM(X47:X58) | =SUM(T46:X46) |
| 47 | Progress Reporting | 390 | =SUM(N47:R47) | 390 | 390 | 390 | 390 | 390 | =SUM(T47:X47) |
| 48 | Aquifer Model (ERM Estimate)[1] | 1200 | =SUM(N48:R48) | 1200 | 1200 | 1200 | 1200 | 1200 | =SUM(T48:X48) |
| 49 | Annual Reports incl.Perf & Alt. Eva | 3600 | =SUM(N49:R49) | 3600 | 3600 | 3600 | 3600 | 3600 | =SUM(T49:X49) |
| 50 | | | =SUM(N50:R50) | | | | | | =SUM(T50:X50) |
| 51 | | 12750 | =SUM(N51:R51) | 12750 | 12750 | 12750 | 12750 | 12750 | =SUM(T51:X51) |
| 52 | | 27900 | =SUM(N52:R52) | 27900 | 27900 | 27900 | 27900 | 27900 | =SUM(T52:X52) |
| 53 | | 2250 | =SUM(N53:R53) | 2250 | 2250 | 2250 | 2250 | 2250 | =SUM(T53:X53) |
| 54 | 5-yr Report | | =SUM(N54:R54) | | | | | | =SUM(T54:X54) |
| 55 | | | | | | | | | |
| 56 | **Closure** | | | | | | | | |
| 57 | Plug and Abandon 63 wells | | | | | | | | |
| 58 | Closure Certification Report | | =SUM(N58:R58) | | | | | | |
| 59 | | | | | | | | | |
| 60 | **Data Tabulation, Eng., Mgnt.** | 13500 | =SUM(N60:R60) | 13500 | 13500 | 13500 | 13500 | 13500 | =SUM(T60:X60) |
| 61 | | | | | | | | | |
| 62 | **Total O&M Expenditure** | =SUM(R60+R46+R39+R33+F | =SUM(S60+S46+S39+S33+S23) | =SUM(T60+T46+T39+T33+T: | =SUM(U60+U46+U39+U33+U | =SUM(V60+V46+V39+V33+V | =SUM(W60+W46+W39+W33 | =SUM(X60+X46+X39+X33+X | =SUM(Y60+Y46+Y39+Y33+Y23) |
| 63 | | | | | | | | | |
| 64 | | | | | | | | | |
| 65 | **Summary** | | | | | | | | |
| 66 | | =R20 | =SUM(N66:R66) | =T20 | =U20 | =V20 | =W20 | =X20 | =SUM(T66:X66) |
| 67 | | =R62 | =SUM(N67:R67) | =T62 | =U62 | =V62 | =W62 | =X62 | =SUM(T67:X67) |
| 68 | | | | | | | | | |
| 69 | | | | | | | | | |
| 70 | **Sparton Technologies, Inc. (NPV** | | | | | | | | |
| 71 | **Coors Rd. Facility** | | | | | | | | |
| 72 | **Albuquerque, New Mexico** | | | | | | | | |
| 73 | **36468** | | | | | | | | |
| 74 | | =Q74-1 | | =R74-1 | =T74-1 | =U74-1 | =V74-1 | =W74-1 | |
| 75 | | 2009 | 2005-2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2010-2014 |
| 76 | **Remaining Capital Expenditures** | | | | | | | | |
| 77 | **Off-site Containment** | =SUM(R78) | =SUM(N77:R77) | =SUM(T78) | =SUM(U78) | =SUM(V78) | =SUM(W78) | =SUM(X78) | =SUM(T77:X77) |
| 78 | No remaining tasks | | | | | | | | |
| 79 | | | | | | | | | |
| 80 | **Vadose (SVE)** | | =SUM(N80:R80) | | | | | | =SUM(T80:X80) |
| 81 | Equipment - Procure/Install (1) 200 | | =SUM(N81:R81) | | | | | | =SUM(T81:X81) |
| 82 | | | | | | | | | |

| | A | R | S | T | U | V | W | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| 7 | | 2009 | 2005-2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2010-2014 |
| 86 | Equipment - Procure/Install (1) 50g | | =SUM(N86:R86) | | | | | | =SUM(T86:X86) |
| 87 | Install Ponds / Piping | | =SUM(N87:R87) | | | | | | =SUM(T87:X87) |
| 88 | | | | | | | | | |
| 89 | **Total Remaining Capital Expendi** | =R83+R80+R77 | =S83+S80+S77 | =T83+T80+T77 | =U83+U80+U77 | =V83+V80+V77 | =W83+W80+W77 | =X83+X80+X77 | =Y83+Y80+Y77 |
| 90 | | | | | | | | | |
| 91 | **O&M Expenditures** | | | | | | | | |
| 92 | **Off-site Containment** | =SUM(R93:R100) | =SUM(N92:R92) | =SUM(T93:T100) | =SUM(U93:U100) | =SUM(V93:V100) | =SUM(W93:W100) | =SUM(X93:X100) | =SUM(T92:X92) |
| 93 | Permits / Licenses | | | | | | | | |
| 94 | | =IF(R25=0," ",NPV(6%,Q94)) | =SUM(N94:R94) | =IF(T25=0," ",NPV(6%,R94)) | =IF(U25=0," ",NPV(6%,T94)) | =IF(V25=0," ",NPV(6%,U94)) | =IF(W25=0," ",NPV(6%,V94)) | =IF(X25=0," ",NPV(6%,W94)) | =SUM(T94:X94) |
| 95 | | =IF(R26=0," ",NPV(6%,Q95)) | =SUM(N95:R95) | =IF(T26=0," ",NPV(6%,R95)) | =IF(U26=0," ",NPV(6%,T95)) | =IF(V26=0," ",NPV(6%,U95)) | =IF(W26=0," ",NPV(6%,V95)) | =IF(X26=0," ",NPV(6%,W95)) | =SUM(T95:X95) |
| 96 | Operate System - Power (45hp) & I | =IF(R27=0," ",NPV(6%,Q96)) | =SUM(N96:R96) | =IF(T27=0," ",NPV(6%,R96)) | =IF(U27=0," ",NPV(6%,T96)) | =IF(V27=0," ",NPV(6%,U96)) | =IF(W27=0," ",NPV(6%,V96)) | =IF(X27=0," ",NPV(6%,W96)) | =SUM(T96:X96) |
| 97 | Influent/Effluent Sampling | =IF(R28=0," ",NPV(6%,Q97)) | =SUM(N97:R97) | =IF(T28=0," ",NPV(6%,R97)) | =IF(U28=0," ",NPV(6%,T97)) | =IF(V28=0," ",NPV(6%,U97)) | =IF(W28=0," ",NPV(6%,V97)) | =IF(X28=0," ",NPV(6%,W97)) | =SUM(T97:X97) |
| 98 | O&M - Equipment | =IF(R29=0," ",NPV(6%,Q98)) | =SUM(N98:R98) | =IF(T29=0," ",NPV(6%,R98)) | =IF(U29=0," ",NPV(6%,T98)) | =IF(V29=0," ",NPV(6%,U98)) | =IF(W29=0," ",NPV(6%,V98)) | =IF(X29=0," ",NPV(6%,W98)) | =SUM(T98:X98) |
| 99 | O&M - Labor | =IF(R30=0," ",NPV(6%,Q99)) | =SUM(N99:R99) | =IF(T30=0," ",NPV(6%,R99)) | =IF(U30=0," ",NPV(6%,T99)) | =IF(V30=0," ",NPV(6%,U99)) | =IF(W30=0," ",NPV(6%,V99)) | =IF(X30=0," ",NPV(6%,W99)) | =SUM(T99:X99) |
| 100 | Ground water monitoring -see belo | | | | | | | | |
| 101 | | | | | | | | | |
| 102 | **Vadose (SVE)** | =SUM(R103:R106) | =SUM(N102:R102) | =SUM(T103:T106) | =SUM(U103:U106) | =SUM(V103:V106) | =SUM(W103:W106) | =SUM(X103:X106) | =SUM(T102:X102) |
| 103 | Operate System - Power | | =SUM(N103:R103) | | | | | | =SUM(T103:X103) |
| 104 | O&M - Equipment | | =SUM(N104:R104) | | | | | | =SUM(T104:X104) |
| 105 | O&M - Labor | | =SUM(N105:R105) | | | | | | =SUM(T105:X105) |
| 106 | Monitoring - Soil gas samples | | =SUM(N106:R106) | | | | | | =SUM(T106:X106) |
| 107 | | | | | | | | | |
| 108 | **Source Containment** | =SUM(R109:R113) | =SUM(N108:R108) | =SUM(T109:T113) | =SUM(U109:U113) | =SUM(V109:V113) | =SUM(W109:W113) | =SUM(X109:X113) | =SUM(T108:X108) |
| 109 | Operate System - Power | =IF(R40=0," ",NPV(6%,Q109) | =SUM(N109:R109) | =IF(T40=0," ",NPV(6%,R109)) | =IF(U40=0," ",NPV(6%,T109)) | =IF(V40=0," ",NPV(6%,U109) | =IF(W40=0," ",NPV(6%,V109) | =IF(X40=0," ",NPV(6%,W109) | =SUM(T109:X109) |
| 110 | Influent/effluent Sampling | =IF(R41=0," ",NPV(6%,Q110) | =SUM(N110:R110) | =IF(T41=0," ",NPV(6%,R110)) | =IF(U41=0," ",NPV(6%,T110)) | =IF(V41=0," ",NPV(6%,U110) | =IF(W41=0," ",NPV(6%,V110) | =IF(X41=0," ",NPV(6%,W110) | =SUM(T110:X110) |
| 111 | O&M - Equipment | =IF(R42=0," ",NPV(6%,Q111) | =SUM(N111:R111) | =IF(T42=0," ",NPV(6%,R111)) | =IF(U42=0," ",NPV(6%,T111)) | =IF(V42=0," ",NPV(6%,U111) | =IF(W42=0," ",NPV(6%,V111) | =IF(X42=0," ",NPV(6%,W111) | =SUM(T111:X111) |
| 112 | O&M - Labor | =IF(R43=0," ",NPV(6%,Q112) | =SUM(N112:R112) | =IF(T43=0," ",NPV(6%,R112)) | =IF(U43=0," ",NPV(6%,T112)) | =IF(V43=0," ",NPV(6%,U112) | =IF(W43=0," ",NPV(6%,V112) | =IF(X43=0," ",NPV(6%,W112) | =SUM(T112:X112) |
| 113 | Lease of water rights | =IF(R44=0," ",NPV(6%,Q113) | =SUM(N113:R113) | =IF(T44=0," ",NPV(6%,R113)) | =IF(U44=0," ",NPV(6%,T113)) | =IF(V44=0," ",NPV(6%,U113) | =IF(W44=0," ",NPV(6%,V113) | =IF(X44=0," ",NPV(6%,W113) | =SUM(T113:X113) |
| 114 | | | | | | | | | |
| 115 | **Monitoring and Reporting** | =SUM(R116:R127) | =SUM(N115:R115) | =SUM(T116:T127) | =SUM(U116:U127) | =SUM(V116:V127) | =SUM(W116:W127) | =SUM(X116:X127) | =SUM(T115:X115) |
| 116 | Progress Reporting | =IF(R47=0," ",NPV(6%,Q116) | =SUM(N116:R116) | =IF(T47=0," ",NPV(6%,R116)) | =IF(U47=0," ",NPV(6%,T116)) | =IF(V47=0," ",NPV(6%,U116) | =IF(W47=0," ",NPV(6%,V116) | =IF(X47=0," ",NPV(6%,W116) | =SUM(T116:X116) |
| 117 | Aquifer Model (ERM Estimate)[2] | =IF(R48=0," ",NPV(6%,Q117) | =SUM(N117:R117) | =IF(T48=0," ",NPV(6%,R117)) | =IF(U48=0," ",NPV(6%,T117)) | =IF(V48=0," ",NPV(6%,U117) | =IF(W48=0," ",NPV(6%,V117) | =IF(X48=0," ",NPV(6%,W117) | =SUM(T117:X117) |
| 118 | Annual Reports including Performa | =IF(R49=0," ",NPV(6%,Q118) | =SUM(N118:R118) | =IF(T49=0," ",NPV(6%,R118)) | =IF(U49=0," ",NPV(6%,T118)) | =IF(V49=0," ",NPV(6%,U118) | =IF(W49=0," ",NPV(6%,V118) | =IF(X49=0," ",NPV(6%,W118) | =SUM(T118:X118) |
| 119 | | =IF(R50=0," ",NPV(6%,Q119) | =SUM(N119:R119) | =IF(T50=0," ",NPV(6%,R119)) | =IF(U50=0," ",NPV(6%,T119)) | =IF(V50=0," ",NPV(6%,U119) | =IF(W50=0," ",NPV(6%,V119) | =IF(X50=0," ",NPV(6%,W119) | =SUM(T119:X119) |
| 120 | | =IF(R51=0," ",NPV(6%,Q120) | =SUM(N120:R120) | =IF(T51=0," ",NPV(6%,R120)) | =IF(U51=0," ",NPV(6%,T120)) | =IF(V51=0," ",NPV(6%,U120) | =IF(W51=0," ",NPV(6%,V120) | =IF(X51=0," ",NPV(6%,W120) | =SUM(T120:X120) |
| 121 | | =IF(R52=0," ",NPV(6%,Q121) | =SUM(N121:R121) | =IF(T52=0," ",NPV(6%,R121)) | =IF(U52=0," ",NPV(6%,T121)) | =IF(V52=0," ",NPV(6%,U121) | =IF(W52=0," ",NPV(6%,V121) | =IF(X52=0," ",NPV(6%,W121) | =SUM(T121:X121) |
| 122 | | =IF(R53=0," ",NPV(6%,Q122) | =SUM(N122:R122) | =IF(T53=0," ",NPV(6%,R122)) | =IF(U53=0," ",NPV(6%,T122)) | =IF(V53=0," ",NPV(6%,U122) | =IF(W53=0," ",NPV(6%,V122) | =IF(X53=0," ",NPV(6%,W122) | =SUM(T122:X122) |
| 123 | 5-yr Report | =IF(R54=0," ",NPV(6%,Q123) | =SUM(N123:R123) | =IF(T54=0," ",NPV(6%,R123)) | =IF(U54=0," ",NPV(6%,T123)) | =IF(V54=0," ",NPV(6%,U123) | =IF(W54=0," ",NPV(6%,V123) | =IF(X54=0," ",NPV(6%,W123) | =SUM(T123:X123) |
| 124 | | | | | | | | | |
| 125 | **Closure** | | | | | | | | |
| 126 | Plug and Abandon 63 wells | =IF(R57=0," ",NPV(6%,Q126) | | =IF(T57=0," ",NPV(6%,R126)) | =IF(U57=0," ",NPV(6%,T126)) | =IF(V57=0," ",NPV(6%,U126) | =IF(W57=0," ",NPV(6%,V126) | =IF(X57=0," ",NPV(6%,W126) | |
| 127 | Closure Certification Report | =IF(R58=0," ",NPV(6%,Q127) | =SUM(N127:R127) | =IF(T58=0," ",NPV(6%,R127)) | =IF(U58=0," ",NPV(6%,T127)) | =IF(V58=0," ",NPV(6%,U127) | =IF(W58=0," ",NPV(6%,V127) | =IF(X58=0," ",NPV(6%,W127) | =SUM(T127:X127) |
| 128 | | | | | | | | | |
| 129 | **Data Tabulation, Eng., Mgnt.** | =IF(R60=0," ",NPV(6%,Q129) | =SUM(N129:R129) | =IF(T60=0," ",NPV(6%,R129) | =IF(U60=0," ",NPV(6%,T129) | =IF(V60=0," ",NPV(6%,U129) | =IF(W60=0," ",NPV(6%,V129 | =IF(X60=0," ",NPV(6%,W129 | =SUM(T129:X129) |
| 130 | | | | | | | | | |
| 131 | **Total O&M Expenditure** | =SUM(R129+R115+R108+R1 | =SUM(S129+S115+S108+S102+S | =SUM(T129+T115+T108+T1( | =SUM(U129+U115+U108+U1 | =SUM(V129+V115+V108+V1 | =SUM(W129+W115+W108+V | =SUM(X129+X115+X108+X1 | =SUM(Y129+Y115+Y108+Y102+Y |
| 132 | | | | | | | | | |
| 133 | | | | | | | | | |
| 134 | **Summary** | | | | | | | | |
| 135 | | =R89 | =SUM(N135:R135) | =T89 | =U89 | =V89 | =W89 | =X89 | =SUM(T135:X135) |
| 136 | | =R131 | =SUM(N136:R136) | =T131 | =U131 | =V131 | =W131 | =X131 | =SUM(T136:X136) |
| 137 | | | | | | | | | |
| 138 | NOTES: | | | | | | | | |
| 139 | [1] 6% is used for the NPV calculatio | | | | | | | | |
| 140 | [2] Three estimates are used to reflec | | | | | | | | |

| | A | Z | AA | AB | AC | AD | AE | AF | AG |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | |
| 2 | Sparton Technologies, Inc. | | | | | | | | |
| 3 | Coors Rd. Facility | | | | | | | | |
| 4 | Albequerque, New Mexico 2 | | | | | | | | |
| 5 | 36465 | | | | | | | | |
| 6 | | | | | | | | | |
| 7 | | 2015 | 2016 | 2017 | 2018 | 2019 | 2015-2019 | 2020 | =AF7+1 |
| 8 | **Remaining Capital Expenditures** | | | | | | | | |
| 9 | **Offsite Containment I** | =SUM(Z10) | =SUM(AA10) | =SUM(AB10) | =SUM(AC10) | =SUM(AD10) | =SUM(Z9:AD9) | =SUM(AF10) | =SUM(AG10) |
| 10 | No remaining tasks | | | | | | | | |
| 11 | | | | | | | | | |
| 12 | **Vadose (SVE)** | | | | | | =SUM(Z12:AD12) | | |
| 13 | Equipment - Procure/Install (1) 20( | | | | | | =SUM(Z13:AD13) | | |
| 14 | | | | | | | | | |
| 15 | **Source Containment** | | | | | | =SUM(Z15:AD15) | | |
| 16 | Water Rights Transfer (200 gpm) | | | | | | =SUM(Z16:AD16) | | |
| 17 | Equipment - (1) 120' well and (1) 5 | | | | | | =SUM(Z17:AD17) | | |
| 18 | Equipment - Procure/Install (1) 50( | | | | | | =SUM(Z18:AD18) | | |
| 19 | Install Ponds / Piping | | | | | | =SUM(Z19:AD19) | | |
| 20 | **Total Remaining Capital Expendi** | =Z15+Z12+Z9 | =AA15+AA12+AA9 | =AB15+AB12+AB9 | =AC15+AC12+AC9 | =AD15+AD12+AD9 | =AE15+AE12+AE9 | =AF15+AF12+AF9 | =AG15+AG12+AG9 |
| 21 | | | | | | | | | |
| 22 | **O&M Expenditures** | | | | | | | | |
| 23 | **Offsite Containment II** | =SUM(Z24:Z31) | =SUM(AA24:AA31) | =SUM(AB24:AB31) | =SUM(AC24:AC31) | =SUM(AD24:AD31) | =SUM(Z23:AD23) | =SUM(AF24:AF31) | =SUM(AG24:AG31) |
| 24 | Permits / Licenses | | | | | | | | |
| 25 | | 500 | 500 | 500 | 500 | 500 | =SUM(Z25:AD25) | | |
| 26 | | 3000 | 3000 | 3000 | 3000 | 3000 | =SUM(Z26:AD26) | | |
| 27 | Operate System - Power (45hp) & ( | 13980 | 13980 | 13980 | 13980 | 13980 | =SUM(Z27:AD27) | | |
| 28 | Influent/Effluent Sampling | 4200 | 4200 | 4200 | 4200 | 4200 | =SUM(Z28:AD28) | | |
| 29 | O&M - Equipment | 13200 | 13200 | 13200 | 13200 | 13200 | =SUM(Z29:AD29) | | |
| 30 | O&M - Labor | 7800 | 7800 | 7800 | 7800 | 7800 | =SUM(Z30:AD30) | | |
| 31 | Ground water monitoring -see belo | | | | | | | | |
| 32 | | | | | | | | | |
| 33 | **Vadose (SVE)** | =SUM(Z34:Z37) | =SUM(AA34:AA37) | =SUM(AB34:AB37) | =SUM(AC34:AC37) | =SUM(AD34:AD37) | =SUM(Z33:AD33) | =SUM(AF34:AF37) | =SUM(AG34:AG37) |
| 34 | Operate System - Power | | | | | | =SUM(Z34:AD34) | | |
| 35 | O&M - Equipment | | | | | | =SUM(Z35:AD35) | | |
| 36 | O&M - Labor | | | | | | =SUM(Z36:AD36) | | |
| 37 | Monitoring - Soil gas samples | | | | | | =SUM(Z37:AD37) | | |
| 38 | | | | | | | | | |
| 39 | **Source Containment** | =SUM(Z40:Z44) | =SUM(AA40:AA44) | =SUM(AB40:AB44) | =SUM(AC40:AC44) | =SUM(AD40:AD44) | =SUM(Z39:AD39) | =SUM(AF40:AF44) | =SUM(AG40:AG44) |
| 40 | Operate System - Power | 13980 | 13980 | 13980 | 13980 | 13980 | =SUM(Z40:AD40) | 13980 | 13980 |
| 41 | Influent/Effluent Sampling | 4200 | 4200 | 4200 | 4200 | 4200 | =SUM(Z41:AD41) | 4200 | 4200 |
| 42 | O&M - Equipment | 13200 | 13200 | 13200 | 13200 | 13200 | =SUM(Z42:AD42) | 13200 | 13200 |
| 43 | O&M - Labor | 7800 | 7800 | 7800 | 7800 | 7800 | =SUM(Z43:AD43) | 7800 | 7800 |
| 44 | Lease of water rights | 1200 | 1200 | 1200 | 1200 | 1200 | =SUM(Z44:AD44) | 1200 | 1200 |
| 45 | | | | | | | | | |
| 46 | **Monitoring and Reporting** | =SUM(Z47:Z58) | =SUM(AA47:AA58) | =SUM(AB47:AB58) | =SUM(AC47:AC58) | =SUM(AD47:AD58) | =SUM(Z46:AD46) | =SUM(AF47:AF58) | =SUM(AG47:AG58) |
| 47 | Progress Reporting | 390 | 390 | 390 | 390 | 390 | =SUM(Z47:AD47) | 390 | 390 |
| 48 | Aquifer Model (ERM Estimate)[1] | 1200 | 1200 | 1200 | 1200 | 1200 | =SUM(Z48:AD48) | 1200 | 1200 |
| 49 | Annual Reports incl.Perf & Aft. Eva | 3600 | 3600 | 3600 | 3600 | 3600 | =SUM(Z49:AD49) | 3600 | 3600 |
| 50 | | | | | | | =SUM(Z50:AD50) | | |
| 51 | | 12750 | 12750 | 12750 | 12750 | 12750 | =SUM(Z51:AD51) | 12750 | 12750 |
| 52 | | 27900 | 27900 | 27900 | 27900 | 27900 | =SUM(Z52:AD52) | 27900 | 27900 |
| 53 | | 2250 | 2250 | 2250 | 2250 | 2250 | =SUM(Z53:AD53) | 2250 | 2250 |
| 54 | 5-yr Report | | | | | | =SUM(Z54:AD54) | | |
| 55 | | | | | | | | | |
| 56 | **Closure** | | | | | | | | |
| 57 | Plug and Abandon 63 wells | | | | | | | | |
| 58 | Closure Certification Report | | | | | | =SUM(Z58:AD58) | | |
| 59 | | | | | | | | | |
| 60 | **Data Tabulation, Eng., Mgnt.** | 13500 | 13500 | 13500 | 13500 | 13500 | =SUM(Z60:AD60) | 13500 | 13500 |
| 61 | | | | | | | | | |
| 62 | **Total O&M Expenditure** | =SUM(Z60+Z46+Z39+Z33+Z: | =SUM(AA60+AA46+AA39+A | =SUM(AB60+AB46+AB39+A | =SUM(AC60+AC46+AC39+A | =SUM(AD60+AD46+AD39+A | =SUM(AE60+AE46+AE39+AE33+ | =SUM(AF60+AF46+AF39+AI | =SUM(AG60+AG46+AG39+A |
| 63 | | | | | | | | | |
| 64 | | | | | | | | | |
| 65 | **Summary** | | | | | | | | |
| 66 | | =Z20 | =AA20 | =AB20 | =AC20 | =AD20 | =SUM(Z66:AD66) | =AF20 | =AG20 |
| 67 | | =Z62 | =AA62 | =AB62 | =AC62 | =AD62 | =SUM(Z67:AD67) | =AF62 | =AG62 |
| 68 | | | | | | | | | |
| 69 | | | | | | | | | |
| 70 | **Sparton Technologies, Inc. (NPV** | | | | | | | | |
| 71 | **Coors Rd. Facility** | | | | | | | | |
| 72 | **Albuquerque, New Mexico** | | | | | | | | |
| 73 | **36468** | | | | | | | | |
| 74 | | =X74-1 | =Z74-1 | =AA74-1 | =AB74-1 | =AC74-1 | | =AD74-1 | =AF74-1 |
| 75 | | 2015 | 2016 | 2017 | 2018 | 2019 | 2015-2019 | 2020 | =AF75+1 |
| 76 | **Remaining Capital Expenditures** | | | | | | | | |
| 77 | **Off-site Containment** | =SUM(Z78) | =SUM(AA78) | =SUM(AB78) | =SUM(AC78) | =SUM(AD78) | =SUM(Z77:AD77) | =SUM(AF78) | =SUM(AG78) |
| 78 | No remaining tasks | | | | | | | | |
| 79 | | | | | | | | | |
| 80 | **Vadose (SVE)** | | | | | | =SUM(Z80:AD80) | | |
| 81 | Equipment - Procure/Install (1) 200 | | | | | | =SUM(Z81:AD81) | | |
| 82 | | | | | | | | | |
| 83 | **Source Containment** | | | | | | =SUM(Z83:AD83) | | |

| | A | Z | AA | AB | AC | AD | AE | AF | AG |
|---|---|---|---|---|---|---|---|---|---|
| 7 | | 2015 | 2016 | 2017 | 2018 | 2019 | 2015-2019 | 2020 | =AF7+1 |
| 86 | Equipment - Procure/Install (1) 50g | | | | | | =SUM(Z86:AD86) | | |
| 87 | Install Ponds / Piping | | | | | | =SUM(Z87:AD87) | | |
| 88 | | | | | | | | | |
| 89 | Total Remaining Capital Expend | =Z83+Z80+Z77 | =AA83+AA80+AA77 | =AB83+AB80+AB77 | =AC83+AC80+AC77 | =AD83+AD80+AD77 | =AE83+AE80+AE77 | =AF83+AF80+AF77 | =AG83+AG80+AG77 |
| 90 | | | | | | | | | |
| 91 | O&M Expenditures | | | | | | | | |
| 92 | Off-site Containment | =SUM(Z93:Z100) | =SUM(AA93:AA100) | =SUM(AB93:AB100) | =SUM(AC93:AC100) | =SUM(AD93:AD100) | =SUM(Z92:AD92) | =SUM(AF93:AF100) | =SUM(AG93:AG100) |
| 93 | Permits / Licenses | | | | | | | | |
| 94 | | =IF(Z25=0," ",NPV(6%,X94)) | =IF(AA25=0," ",NPV(6%,Z94) | =IF(AB25=0," ",NPV(6%,AA9 | =IF(AC25=0," ",NPV(6%,AB9 | =IF(AD25=0," ",NPV(6%,AC9 | =SUM(Z94:AD94) | | |
| 95 | | =IF(Z26=0," ",NPV(6%,X95)) | =IF(AA26=0," ",NPV(6%,Z95) | =IF(AB26=0," ",NPV(6%,AA9 | =IF(AC26=0," ",NPV(6%,AB9 | =IF(AD26=0," ",NPV(6%,AC9 | =SUM(Z95:AD95) | | |
| 96 | Operate System - Power (45hp) & I | =IF(Z27=0," ",NPV(6%,X96)) | =IF(AA27=0," ",NPV(6%,Z96) | =IF(AB27=0," ",NPV(6%,AA9 | =IF(AC27=0," ",NPV(6%,AB9 | =IF(AD27=0," ",NPV(6%,AC9 | =SUM(Z96:AD96) | | |
| 97 | Influent/Effluent Sampling | =IF(Z28=0," ",NPV(6%,X97)) | =IF(AA28=0," ",NPV(6%,Z97) | =IF(AB28=0," ",NPV(6%,AA9 | =IF(AC28=0," ",NPV(6%,AB9 | =IF(AD28=0," ",NPV(6%,AC9 | =SUM(Z97:AD97) | | |
| 98 | O&M - Equipment | =IF(Z29=0," ",NPV(6%,X98)) | =IF(AA29=0," ",NPV(6%,Z98) | =IF(AB29=0," ",NPV(6%,AA9 | =IF(AC29=0," ",NPV(6%,AB9 | =IF(AD29=0," ",NPV(6%,AC9 | =SUM(Z98:AD98) | | |
| 99 | O&M - Labor | =IF(Z30=0," ",NPV(6%,X99)) | =IF(AA30=0," ",NPV(6%,Z99) | =IF(AB30=0," ",NPV(6%,AA9 | =IF(AC30=0," ",NPV(6%,AB9 | =IF(AD30=0," ",NPV(6%,AC9 | =SUM(Z99:AD99) | | |
| 100 | Ground water monitoring -see belo | | | | | | | | |
| 101 | | | | | | | | | |
| 102 | Vadose (SVE) | =SUM(Z103:Z106) | =SUM(AA103:AA106) | =SUM(AB103:AB106) | =SUM(AC103:AC106) | =SUM(AD103:AD106) | =SUM(Z102:AD102) | =SUM(AF103:AF106) | =SUM(AG103:AG106) |
| 103 | Operate System - Power | | | | | | =SUM(Z103:AD103) | | |
| 104 | O&M - Equipment | | | | | | =SUM(Z104:AD104) | | |
| 105 | O&M - Labor | | | | | | =SUM(Z105:AD105) | | |
| 106 | Monitoring - Soil gas samples | | | | | | =SUM(Z106:AD106) | | |
| 107 | | | | | | | | | |
| 108 | Source Containment | =SUM(Z109:Z113) | =SUM(AA109:AA113) | =SUM(AB109:AB113) | =SUM(AC109:AC113) | =SUM(AD109:AD113) | =SUM(Z108:AD108) | =SUM(AF109:AF113) | =SUM(AG109:AG113) |
| 109 | Operate System - Power | =IF(Z40=0," ",NPV(6%,X109)) | =IF(AA40=0," ",NPV(6%,Z109 | =IF(AB40=0," ",NPV(6%,AA1 | =IF(AC40=0," ",NPV(6%,AB1 | =IF(AD40=0," ",NPV(6%,AC1 | =SUM(Z109:AD109) | =IF(AF40=0," ",NPV(6%,AD1 | =IF(AG40=0," ",NPV(6%,AF1 |
| 110 | Influent/effluent Sampling | =IF(Z41=0," ",NPV(6%,X110)) | =IF(AA41=0," ",NPV(6%,Z110 | =IF(AB41=0," ",NPV(6%,AA1 | =IF(AC41=0," ",NPV(6%,AB1 | =IF(AD41=0," ",NPV(6%,AC1 | =SUM(Z110:AD110) | =IF(AF41=0," ",NPV(6%,AD11 | =IF(AG41=0," ",NPV(6%,AF1 |
| 111 | O&M - Equipment | =IF(Z42=0," ",NPV(6%,X111)) | =IF(AA42=0," ",NPV(6%,Z111 | =IF(AB42=0," ",NPV(6%,AA1 | =IF(AC42=0," ",NPV(6%,AB1 | =IF(AD42=0," ",NPV(6%,AC1 | =SUM(Z111:AD111) | =IF(AF42=0," ",NPV(6%,AD11 | =IF(AG42=0," ",NPV(6%,AF1 |
| 112 | O&M - Labor | =IF(Z43=0," ",NPV(6%,X112)) | =IF(AA43=0," ",NPV(6%,Z112 | =IF(AB43=0," ",NPV(6%,AA1 | =IF(AC43=0," ",NPV(6%,AB1 | =IF(AD43=0," ",NPV(6%,AC1 | =SUM(Z112:AD112) | =IF(AF43=0," ",NPV(6%,AD11 | =IF(AG43=0," ",NPV(6%,AF1 |
| 113 | Lease of water rights | =IF(Z44=0," ",NPV(6%,X113)) | =IF(AA44=0," ",NPV(6%,Z113 | =IF(AB44=0," ",NPV(6%,AA1 | =IF(AC44=0," ",NPV(6%,AB1 | =IF(AD44=0," ",NPV(6%,AC1 | =SUM(Z113:AD113) | =IF(AF44=0," ",NPV(6%,AD11 | =IF(AG44=0," ",NPV(6%,AF1 |
| 114 | | | | | | | | | |
| 115 | Monitoring and Reporting | =SUM(Z116:Z127) | =SUM(AA116:AA127) | =SUM(AB116:AB127) | =SUM(AC116:AC127) | =SUM(AD116:AD127) | =SUM(Z115:AD115) | =SUM(AF116:AF127) | =SUM(AG116:AG127) |
| 116 | Progress Reporting | =IF(Z47=0," ",NPV(6%,X116)) | =IF(AA47=0," ",NPV(6%,Z116 | =IF(AB47=0," ",NPV(6%,AA1 | =IF(AC47=0," ",NPV(6%,AB1 | =IF(AD47=0," ",NPV(6%,AC1 | =SUM(Z116:AD116) | =IF(AF47=0," ",NPV(6%,AD11 | =IF(AG47=0," ",NPV(6%,AF1 |
| 117 | Aquifer Model (ERM Estimate)[2] | =IF(Z48=0," ",NPV(6%,X117)) | =IF(AA48=0," ",NPV(6%,Z117 | =IF(AB48=0," ",NPV(6%,AA1 | =IF(AC48=0," ",NPV(6%,AB1 | =IF(AD48=0," ",NPV(6%,AC1 | =SUM(Z117:AD117) | =IF(AF48=0," ",NPV(6%,AD11 | =IF(AG48=0," ",NPV(6%,AF1 |
| 118 | Annual Reports including Performa | =IF(Z49=0," ",NPV(6%,X118)) | =IF(AA49=0," ",NPV(6%,Z118 | =IF(AB49=0," ",NPV(6%,AA1 | =IF(AC49=0," ",NPV(6%,AB1 | =IF(AD49=0," ",NPV(6%,AC1 | =SUM(Z118:AD118) | =IF(AF49=0," ",NPV(6%,AD11 | =IF(AG49=0," ",NPV(6%,AF1 |
| 119 | | =IF(Z50=0," ",NPV(6%,X119)) | =IF(AA50=0," ",NPV(6%,Z119 | =IF(AB50=0," ",NPV(6%,AA1 | =IF(AC50=0," ",NPV(6%,AB1 | =IF(AD50=0," ",NPV(6%,AC1 | | =IF(AF50=0," ",NPV(6%,AD11 | =IF(AG50=0," ",NPV(6%,AF1 |
| 120 | | =IF(Z51=0," ",NPV(6%,X120)) | =IF(AA51=0," ",NPV(6%,Z120 | =IF(AB51=0," ",NPV(6%,AA1 | =IF(AC51=0," ",NPV(6%,AB1 | =IF(AD51=0," ",NPV(6%,AC1 | =SUM(Z120:AD120) | =IF(AF51=0," ",NPV(6%,AD1 | =IF(AG51=0," ",NPV(6%,AF1 |
| 121 | | =IF(Z52=0," ",NPV(6%,X121)) | =IF(AA52=0," ",NPV(6%,Z121 | =IF(AB52=0," ",NPV(6%,AA1 | =IF(AC52=0," ",NPV(6%,AB1 | =IF(AD52=0," ",NPV(6%,AC1 | =SUM(Z121:AD121) | =IF(AF52=0," ",NPV(6%,AD1 | =IF(AG52=0," ",NPV(6%,AF1 |
| 122 | | =IF(Z53=0," ",NPV(6%,X122)) | =IF(AA53=0," ",NPV(6%,Z122 | =IF(AB53=0," ",NPV(6%,AA1 | =IF(AC53=0," ",NPV(6%,AB1 | =IF(AD53=0," ",NPV(6%,AC1 | =SUM(Z122:AD122) | =IF(AF53=0," ",NPV(6%,AD1 | =IF(AG53=0," ",NPV(6%,AF1 |
| 123 | 5-yr Report | =IF(Z54=0," ",NPV(6%,X123)) | =IF(AA54=0," ",NPV(6%,Z123 | =IF(AB54=0," ",NPV(6%,AA1 | =IF(AC54=0," ",NPV(6%,AB1 | =IF(AD54=0," ",NPV(6%,AC1 | | =IF(AF54=0," ",NPV(6%,AD1 | =IF(AG54=0," ",NPV(6%,AF1 |
| 124 | | | | | | | | | |
| 125 | Closure | | | | | | | | |
| 126 | Plug and Abandon 63 wells | =IF(Z57=0," ",NPV(6%,X126)) | =IF(AA57=0," ",NPV(6%,Z126 | =IF(AB57=0," ",NPV(6%,AA1 | =IF(AC57=0," ",NPV(6%,AB1 | =IF(AD57=0," ",NPV(6%,AC1 | | =IF(AF57=0," ",NPV(6%,AD1 | =IF(AG57=0," ",NPV(6%,AF1 |
| 127 | Closure Certification Report | =IF(Z58=0," ",NPV(6%,X127)) | =IF(AA58=0," ",NPV(6%,Z127 | =IF(AB58=0," ",NPV(6%,AA1 | =IF(AC58=0," ",NPV(6%,AB1 | =IF(AD58=0," ",NPV(6%,AC1 | | =IF(AF58=0," ",NPV(6%,AD1 | =IF(AG58=0," ",NPV(6%,AF1 |
| 128 | | | | | | | | | |
| 129 | Data Tabulation, Eng., Mgnt. | =IF(Z60=0," ",NPV(6%,X129) | =IF(AA60=0," ",NPV(6%,Z12 | =IF(AB60=0," ",NPV(6%,AA1 | =IF(AC60=0," ",NPV(6%,AB1 | =IF(AD60=0," ",NPV(6%,AC1 | =SUM(Z129:AD129) | =IF(AF60=0," ",NPV(6%,AD1 | =IF(AG60=0," ",NPV(6%,AF1 |
| 130 | | | | | | | | | |
| 131 | Total O&M Expenditure | =SUM(Z129+Z115+Z108+Z1 | =SUM(AA129+AA115+AA10 | =SUM(AB129+AB115+AB10 | =SUM(AC129+AC115+AC10 | =SUM(AD129+AD115+AD10 | =SUM(AE129+AE115+AE108+AE | =SUM(AF129+AF115+AF108 | =SUM(AG129+AG115+AG10 |
| 132 | | | | | | | | | |
| 133 | | | | | | | | | |
| 134 | Summary | | | | | | | | |
| 135 | | =Z89 | =AA89 | =AB89 | =AC89 | =AD89 | =SUM(Z135:AD135) | =AF89 | =AG89 |
| 136 | | =Z131 | =AA131 | =AB131 | =AC131 | =AD131 | =SUM(Z136:AD136) | =AF131 | =AG131 |
| 137 | | | | | | | | | |
| 138 | NOTES: | | | | | | | | |
| 139 | [1] 6% is used for the NPV calculatio | | | | | | | | |
| 140 | [2] Three estimates are used to reflec | | | | | | | | |

| | A | AH | AI | AJ | AK | AL | AM | AN | AO |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | |
| 2 | Sparton Technologies, Inc | | | | | | | | |
| 3 | Coors Rd. Facility | | | | | | | | |
| 4 | Albequerque, New Mexico 2 | | | | | | | | |
| 5 | 36465 | | | | | | | | |
| 6 | | | | | | | | | |
| 7 | | =AG7+1 | =AH7+1 | =AI7+1 | 2020-2024 | 2025 | =AL7+1 | =AM7+1 | =AN7+1 |
| 8 | **Remaining Capital Expenditures** | | | | | | | | |
| 9 | **Offsite Containment I** | =SUM(AH10) | =SUM(AI10) | =SUM(AJ10) | =SUM(AF9:AJ9) | =SUM(AL10) | =SUM(AM10) | =SUM(AN10) | =SUM(AO10) |
| 10 | No remaining tasks | | | | | | | | |
| 11 | | | | | | | | | |
| 12 | **Vadose (SVE)** | | | | =SUM(AF12:AJ12) | | | | |
| 13 | Equipment - Procure/Install (1) 20( | | | | =SUM(AF13:AJ13) | | | | |
| 14 | | | | | | | | | |
| 15 | **Source Containment** | | | | =SUM(AF15:AJ15) | | | | |
| 16 | Water Rights Transfer (200 gpm) | | | | =SUM(AF16:AJ16) | | | | |
| 17 | Equipment - (1) 120' well and (1) 5 | | | | =SUM(AF17:AJ17) | | | | |
| 18 | Equipment - Procure/Install (1) 50( | | | | =SUM(AF18:AJ18) | | | | |
| 19 | Install Ponds / Piping | | | | =SUM(AF19:AJ19) | | | | |
| 20 | **Total Remaining Capital Expendi** | =AH15+AH12+AH9 | =AI15+AI12+AI9 | =AJ15+AJ12+AJ9 | =AK15+AK12+AK9 | =AL15+AL12+AL9 | =AM15+AM12+AM9 | =AN15+AN12+AN9 | =AO15+AO12+AO9 |
| 21 | | | | | | | | | |
| 22 | **O&M Expenditures** | | | | | | | | |
| 23 | **Offsite Containment II** | =SUM(AH24:AH31) | =SUM(AI24:AI31) | =SUM(AJ24:AJ31) | =SUM(AF23:AJ23) | =SUM(AL24:AL31) | =SUM(AM24:AM31) | =SUM(AN24:AN31) | =SUM(AO24:AO31) |
| 24 | Permits / Licenses | | | | | | | | |
| 25 | | | | | =SUM(AF25:AJ25) | | | | |
| 26 | | | | | =SUM(AF26:AJ26) | | | | |
| 27 | Operate System - Power (45hp) & I | | | | =SUM(AF27:AJ27) | | | | |
| 28 | Influent/Effluent Sampling | | | | =SUM(AF28:AJ28) | | | | |
| 29 | O&M - Equipment | | | | =SUM(AF29:AJ29) | | | | |
| 30 | O&M - Labor | | | | =SUM(AF30:AJ30) | | | | |
| 31 | Ground water monitoring -see belo | | | | | | | | |
| 32 | | | | | | | | | |
| 33 | **Vadose (SVE)** | =SUM(AH34:AH37) | =SUM(AI34:AI37) | =SUM(AJ34:AJ37) | =SUM(AF33:AJ33) | =SUM(AL34:AL37) | =SUM(AM34:AM37) | =SUM(AN34:AN37) | =SUM(AO34:AO37) |
| 34 | Operate System - Power | | | | =SUM(AF34:AJ34) | | | | |
| 35 | O&M - Equipment | | | | =SUM(AF35:AJ35) | | | | |
| 36 | O&M - Labor | | | | =SUM(AF36:AJ36) | | | | |
| 37 | Monitoring - Soil gas samples | | | | =SUM(AF37:AJ37) | | | | |
| 38 | | | | | | | | | |
| 39 | **Source Containment** | =SUM(AH40:AH44) | =SUM(AI40:AI44) | =SUM(AJ40:AJ44) | =SUM(AF39:AJ39) | =SUM(AL40:AL44) | =SUM(AM40:AM44) | =SUM(AN40:AN44) | =SUM(AO40:AO44) |
| 40 | Operate System - Power | 13980 | 13980 | 13980 | =SUM(AF40:AJ40) | 13980 | 13980 | 13980 | 13980 |
| 41 | Influent/Effluent Sampling | 4200 | 4200 | 4200 | =SUM(AF41:AJ41) | 4200 | 4200 | 4200 | 4200 |
| 42 | O&M - Equipment | 13200 | 13200 | 13200 | =SUM(AF42:AJ42) | 13200 | 13200 | 13200 | 13200 |
| 43 | O&M - Labor | 7800 | 7800 | 7800 | =SUM(AF43:AJ43) | 7800 | 7800 | 7800 | 7800 |
| 44 | Lease of water rights | 1200 | 1200 | 1200 | =SUM(AF44:AJ44) | 1200 | 1200 | 1200 | 1200 |
| 45 | | | | | | | | | |
| 46 | **Monitoring and Reporting** | =SUM(AH47:AH58) | =SUM(AI47:AI58) | =SUM(AJ47:AJ58) | =SUM(AF46:AJ46) | =SUM(AL47:AL58) | =SUM(AM47:AM58) | =SUM(AN47:AN58) | =SUM(AO47:AO58) |
| 47 | Progress Reporting | 390 | 390 | 390 | =SUM(AF47:AJ47) | 390 | 390 | 390 | 390 |
| 48 | Aquifer Model (ERM Estimate)[1] | 1200 | 1200 | 1200 | =SUM(AF48:AJ48) | 1200 | 1200 | 1200 | 1200 |
| 49 | Annual Reports incl.Perf & Alt. Eva | 3600 | 3600 | 3600 | =SUM(AF49:AJ49) | 3600 | 3600 | 3600 | 3600 |
| 50 | | | | | =SUM(AF50:AJ50) | | | | |
| 51 | | 12750 | 12750 | 12750 | =SUM(AF51:AJ51) | 12750 | 12750 | 12750 | 12750 |
| 52 | | 27900 | 27900 | 27900 | =SUM(AF52:AJ52) | 27900 | 27900 | 27900 | 27900 |
| 53 | | 2250 | 2250 | 2250 | =SUM(AF53:AJ53) | 2250 | 2250 | 2250 | 2250 |
| 54 | 5-yr Report | | | | =SUM(AF54:AJ54) | | | | |
| 55 | | | | | | | | | |
| 56 | **Closure** | | | | | | | | |
| 57 | Plug and Abandon 63 wells | | | | | | | | |
| 58 | Closure Certification Report | | | | =SUM(AF58:AJ58) | | | | |
| 59 | | | | | | | | | |
| 60 | **Data Tabulation, Eng., Mgnt.** | 13500 | 13500 | 13500 | =SUM(AF60:AJ60) | 13500 | 13500 | 13500 | 13500 |
| 61 | | | | | | | | | |
| 62 | **Total O&M Expenditure** | =SUM(AH60+AH46+AH39+A | =SUM(AI60+AI46+AI39+AI33 | =SUM(AJ60+AJ46+AJ39+AJ | =SUM(AK60+AK46+AK39+AK33 | =SUM(AL60+AL46+AL39+AI | =SUM(AM60+AM46+AM39+/ | =SUM(AN60+AN46+AN39+A | =SUM(AO60+AO46+AO39+A |
| 63 | | | | | | | | | |
| 64 | | | | | | | | | |
| 65 | **Summary** | | | | | | | | |
| 66 | | =AH20 | =AI20 | =AJ20 | =SUM(AF66:AJ66) | =AL20 | =AM20 | =AN20 | =AO20 |
| 67 | | =AH62 | =AI62 | =AJ62 | =SUM(AF67:AJ67) | =AL62 | =AM62 | =AN62 | =AO62 |
| 68 | | | | | | | | | |
| 69 | | | | | | | | | |
| 70 | **Sparton Technologies, Inc. (NPV** | | | | | | | | |
| 71 | **Coors Rd. Facility** | | | | | | | | |
| 72 | **Albuquerque, New Mexico** | | | | | | | | |
| 73 | **36468** | | | | | | | | |
| 74 | | =AG74-1 | =AH74-1 | =AI74-1 | | =AJ74-1 | =AL74-1 | =AM74-1 | =AN74-1 |
| 75 | | =AG75+1 | =AH75+1 | =AI75+1 | 2020-2024 | 2025 | =AL75+1 | =AM75+1 | =AN75+1 |
| 76 | **Remaining Capital Expenditures** | | | | | | | | |
| 77 | **Off-site Containment** | =SUM(AH78) | =SUM(AI78) | =SUM(AJ78) | =SUM(AF77:AJ77) | =SUM(AL78) | =SUM(AM78) | =SUM(AN78) | =SUM(AO78) |
| 78 | No remaining tasks | | | | | | | | |
| 79 | | | | | | | | | |
| 80 | **Vadose (SVE)** | | | | =SUM(AF80:AJ80) | | | | |
| 81 | Equipment - Procure/Install (1) 200 | | | | =SUM(AF81:AJ81) | | | | |
| 82 | | | | | | | | | |
| 83 | **Source Containment** | | | | =SUM(AF83:AJ83) | | | | |

| | A | AH | AI | AJ | AK | AL | AM | AN | AO |
|---|---|---|---|---|---|---|---|---|---|
| 7 | | =AG7+1 | =AH7+1 | =AI7+1 | 2020-2024 | 2025 | =AL7+1 | =AM7+1 | =AN7+1 |
| 86 | Equipment - Procure/Install (1) 50g | | | | =SUM(AF86:AJ86) | | | | |
| 87 | Install Ponds / Piping | | | | =SUM(AF87:AJ87) | | | | |
| 88 | | | | | | | | | |
| 89 | **Total Remaining Capital Expend** | =AH83+AH80+AH77 | =AI83+AI80+AI77 | =AJ83+AJ80+AJ77 | =AK83+AK80+AK77 | =AL83+AL80+AL77 | =AM83+AM80+AM77 | =AN83+AN80+AN77 | =AO83+AO80+AO77 |
| 90 | | | | | | | | | |
| 91 | **O&M Expenditures** | | | | | | | | |
| 92 | **Off-site Containment** | =SUM(AH93:AH100) | =SUM(AI93:AI100) | =SUM(AJ93:AJ100) | =SUM(AF92:AJ92) | =SUM(AL93:AL100) | =SUM(AM93:AM100) | =SUM(AN93:AN100) | =SUM(AO93:AO100) |
| 93 | Permits / Licenses | | | | | | | | |
| 94 | | | | | =SUM(AF94:AJ94) | | | | |
| 95 | | | | | =SUM(AF95:AJ95) | | | | |
| 96 | Operate System - Power (45hp) & I | | | | =SUM(AF96:AJ96) | | | | |
| 97 | Influent/Effluent Sampling | | | | =SUM(AF97:AJ97) | | | | |
| 98 | O&M - Equipment | | | | =SUM(AF98:AJ98) | | | | |
| 99 | O&M - Labor | | | | =SUM(AF99:AJ99) | | | | |
| 100 | Ground water monitoring -see belo | | | | | | | | |
| 101 | | | | | | | | | |
| 102 | **Vadose (SVE)** | =SUM(AH103:AH106) | =SUM(AI103:AI106) | =SUM(AJ103:AJ106) | =SUM(AF102:AJ102) | =SUM(AL103:AL106) | =SUM(AM103:AM106) | =SUM(AN103:AN106) | =SUM(AO103:AO106) |
| 103 | Operate System - Power | | | | =SUM(AF103:AJ103) | | | | |
| 104 | O&M - Equipment | | | | =SUM(AF104:AJ104) | | | | |
| 105 | O&M - Labor | | | | =SUM(AF105:AJ105) | | | | |
| 106 | Monitoring - Soil gas samples | | | | =SUM(AF106:AJ106) | | | | |
| 107 | | | | | | | | | |
| 108 | **Source Containment** | =SUM(AH109:AH113) | =SUM(AI109:AI113) | =SUM(AJ109:AJ113) | =SUM(AF108:AJ108) | =SUM(AL109:AL113) | =SUM(AM109:AM113) | =SUM(AN109:AN113) | =SUM(AO109:AO113) |
| 109 | Operate System - Power | =IF(AH40=0," ",NPV(6%,AG1 | =IF(AI40=0," ",NPV(6%,AH10 | =IF(AJ40=0," ",NPV(6%,AI10 | =SUM(AF109:AJ109) | =IF(AL40=0," ",NPV(6%,AJ10 | =IF(AM40=0," ",NPV(6%,AL1 | =IF(AN40=0," ",NPV(6%,AM1 | =IF(AO40=0," ",NPV(6%,AN1 |
| 110 | Influent/effluent Sampling | =IF(AH41=0," ",NPV(6%,AG1 | =IF(AI41=0," ",NPV(6%,AH11 | =IF(AJ41=0," ",NPV(6%,AI11 | =SUM(AF110:AJ110) | =IF(AL41=0," ",NPV(6%,AJ11 | =IF(AM41=0," ",NPV(6%,AL1 | =IF(AN41=0," ",NPV(6%,AM1 | =IF(AO41=0," ",NPV(6%,AN1 |
| 111 | O&M - Equipment | =IF(AH42=0," ",NPV(6%,AG1 | =IF(AI42=0," ",NPV(6%,AH11 | =IF(AJ42=0," ",NPV(6%,AI111 | =SUM(AF111:AJ111) | =IF(AL42=0," ",NPV(6%,AJ11 | =IF(AM42=0," ",NPV(6%,AL1 | =IF(AN42=0," ",NPV(6%,AM1 | =IF(AO42=0," ",NPV(6%,AN1 |
| 112 | O&M - Labor | =IF(AH43=0," ",NPV(6%,AG1 | =IF(AI43=0," ",NPV(6%,AH11 | =IF(AJ43=0," ",NPV(6%,AI112 | =SUM(AF112:AJ112) | =IF(AL43=0," ",NPV(6%,AJ11 | =IF(AM43=0," ",NPV(6%,AL1 | =IF(AN43=0," ",NPV(6%,AM1 | =IF(AO43=0," ",NPV(6%,AN1 |
| 113 | Lease of water rights | =IF(AH44=0," ",NPV(6%,AG1 | =IF(AI44=0," ",NPV(6%,AH11 | =IF(AJ44=0," ",NPV(6%,AI113 | =SUM(AF113:AJ113) | =IF(AL44=0," ",NPV(6%,AJ11 | =IF(AM44=0," ",NPV(6%,AL1 | =IF(AN44=0," ",NPV(6%,AM1 | =IF(AO44=0," ",NPV(6%,AN1 |
| 114 | | | | | | | | | |
| 115 | **Monitoring and Reporting** | =SUM(AH116:AH127) | =SUM(AI116:AI127) | =SUM(AJ116:AJ127) | =SUM(AF115:AJ115) | =SUM(AL116:AL127) | =SUM(AM116:AM127) | =SUM(AN116:AN127) | =SUM(AO116:AO127) |
| 116 | Progress Reporting | =IF(AH47=0," ",NPV(6%,AG1 | =IF(AI47=0," ",NPV(6%,AH11 | =IF(AJ47=0," ",NPV(6%,AI116 | =SUM(AF116:AJ116) | =IF(AL47=0," ",NPV(6%,AJ11 | =IF(AM47=0," ",NPV(6%,AL1 | =IF(AN47=0," ",NPV(6%,AM1 | =IF(AO47=0," ",NPV(6%,AN1 |
| 117 | Aquifer Model (ERM Estimate)[2] | =IF(AH48=0," ",NPV(6%,AG1 | =IF(AI48=0," ",NPV(6%,AH11 | =IF(AJ48=0," ",NPV(6%,AI117 | =SUM(AF117:AJ117) | =IF(AL48=0," ",NPV(6%,AJ11 | =IF(AM48=0," ",NPV(6%,AL1 | =IF(AN48=0," ",NPV(6%,AM1 | =IF(AO48=0," ",NPV(6%,AN1 |
| 118 | Annual Reports including Performa | =IF(AH49=0," ",NPV(6%,AG1 | =IF(AI49=0," ",NPV(6%,AH11 | =IF(AJ49=0," ",NPV(6%,AI118 | =SUM(AF118:AJ118) | =IF(AL49=0," ",NPV(6%,AJ11 | =IF(AM49=0," ",NPV(6%,AL1 | =IF(AN49=0," ",NPV(6%,AM1 | =IF(AO49=0," ",NPV(6%,AN1 |
| 119 | | =IF(AH50=0," ",NPV(6%,AG1 | =IF(AI50=0," ",NPV(6%,AH11 | =IF(AJ50=0," ",NPV(6%,AI119 | | =IF(AL50=0," ",NPV(6%,AJ11 | =IF(AM50=0," ",NPV(6%,AL1 | =IF(AN50=0," ",NPV(6%,AM1 | =IF(AO50=0," ",NPV(6%,AN1 |
| 120 | | =IF(AH51=0," ",NPV(6%,AG1 | =IF(AI51=0," ",NPV(6%,AH12 | =IF(AJ51=0," ",NPV(6%,AI120 | =SUM(AF120:AJ120) | =IF(AL51=0," ",NPV(6%,AJ12 | =IF(AM51=0," ",NPV(6%,AL1 | =IF(AN51=0," ",NPV(6%,AM1 | =IF(AO51=0," ",NPV(6%,AN1 |
| 121 | | =IF(AH52=0," ",NPV(6%,AG1 | =IF(AI52=0," ",NPV(6%,AH12 | =IF(AJ52=0," ",NPV(6%,AI121 | =SUM(AF121:AJ121) | =IF(AL52=0," ",NPV(6%,AJ12 | =IF(AM52=0," ",NPV(6%,AL1 | =IF(AN52=0," ",NPV(6%,AM1 | =IF(AO52=0," ",NPV(6%,AN1 |
| 122 | | =IF(AH53=0," ",NPV(6%,AG1 | =IF(AI53=0," ",NPV(6%,AH12 | =IF(AJ53=0," ",NPV(6%,AI122 | =SUM(AF122:AJ122) | =IF(AL53=0," ",NPV(6%,AJ12 | =IF(AM53=0," ",NPV(6%,AL1 | =IF(AN53=0," ",NPV(6%,AM1 | =IF(AO53=0," ",NPV(6%,AN1 |
| 123 | 5-yr Report | =IF(AH54=0," ",NPV(6%,AG1 | =IF(AI54=0," ",NPV(6%,AH12 | =IF(AJ54=0," ",NPV(6%,AI123 | | =IF(AL54=0," ",NPV(6%,AJ12 | =IF(AM54=0," ",NPV(6%,AL1 | =IF(AN54=0," ",NPV(6%,AM1 | =IF(AO54=0," ",NPV(6%,AN1 |
| 124 | | | | | | | | | |
| 125 | **Closure** | | | | | | | | |
| 126 | Plug and Abandon 63 wells | =IF(AH57=0," ",NPV(6%,AG1 | =IF(AI57=0," ",NPV(6%,AH12 | =IF(AJ57=0," ",NPV(6%,AI126 | | =IF(AL57=0," ",NPV(6%,AJ12 | =IF(AM57=0," ",NPV(6%,AL1 | =IF(AN57=0," ",NPV(6%,AM1 | =IF(AO57=0," ",NPV(6%,AN1 |
| 127 | Closure Certification Report | =IF(AH58=0," ",NPV(6%,AG1 | =IF(AI58=0," ",NPV(6%,AH12 | =IF(AJ58=0," ",NPV(6%,AI127 | | =IF(AL58=0," ",NPV(6%,AJ12 | =IF(AM58=0," ",NPV(6%,AL1 | =IF(AN58=0," ",NPV(6%,AM1 | =IF(AO58=0," ",NPV(6%,AN1 |
| 128 | | | | | | | | | |
| 129 | **Data Tabulation, Eng., Mgnt.** | =IF(AH60=0," ",NPV(6%,AG1 | =IF(AI60=0," ",NPV(6%,AH1 | =IF(AJ60=0," ",NPV(6%,AI12 | =SUM(AF129:AJ129) | =IF(AL60=0," ",NPV(6%,AJ1 | =IF(AM60=0," ",NPV(6%,AL1 | =IF(AN60=0," ",NPV(6%,AM | =IF(AO60=0," ",NPV(6%,AN1 |
| 130 | | | | | | | | | |
| 131 | **Total O&M Expenditure** | =SUM(AH129+AH115+AH10 | =SUM(AI129+AI115+AI108+/ | =SUM(AJ129+AJ115+AJ108 | =SUM(AK129+AK115+AK108+AI | =SUM(AL129+AL115+AL108 | =SUM(AM129+AM115+AM1( | =SUM(AN129+AN115+AN10 | =SUM(AO129+AO115+AO10 |
| 132 | | | | | | | | | |
| 133 | | | | | | | | | |
| 134 | **Summary** | | | | | | | | |
| 135 | | =AH89 | =AI89 | =AJ89 | =SUM(AF135:AJ135) | =AL89 | =AM89 | =AN89 | =AO89 |
| 136 | | =AH131 | =AI131 | =AJ131 | =SUM(AF136:AJ136) | =AL131 | =AM131 | =AN131 | =AO131 |
| 137 | | | | | | | | | |
| 138 | NOTES: | | | | | | | | |
| 139 | [1] 6% is used for the NPV calculatio | | | | | | | | |
| 140 | [2] Three estimates are used to reflec | | | | | | | | |

| | A | AP | AQ | AR | AS |
|---|---|---|---|---|---|
| 1 | | | | | |
| 2 | Sparton Technologies, Inc. | | | | |
| 3 | Coors Rd. Facility | | | | |
| 4 | Albequerque, New Mexico 2 | | | | |
| 5 | 36465 | | | | |
| 6 | | | | | |
| 7 | | =AO7+1 | 2025-2029 | | Totals |
| 8 | **Remaining Capital Expenditures** | | | | |
| 9 | **Offsite Containment I** | =SUM(AP10) | =SUM(AL9:AP9) | | =AE9+Y9+S9+M9 |
| 10 | No remaining tasks | | | | |
| 11 | | | | | |
| 12 | **Vadose (SVE)** | | =SUM(AL12:AP12) | | =AE12+Y12+S12+M12 |
| 13 | Equipment - Procure/Install (1) 20( | | =SUM(AL13:AP13) | | |
| 14 | | | | | |
| 15 | **Source Containment** | | =SUM(AL15:AP15) | | =AE15+Y15+S15+M15 |
| 16 | Water Rights Transfer (200 gpm) | | =SUM(AL16:AP16) | | |
| 17 | Equipment - (1) 120' well and (1) 5 | | =SUM(AL17:AP17) | | |
| 18 | Equipment - Procure/Install (1) 50( | | =SUM(AL18:AP18) | | |
| 19 | Install Ponds / Piping | | =SUM(AL19:AP19) | | |
| 20 | **Total Remaining Capital Expendi** | =AP15+AP12+AP9 | =AQ15+AQ12+AQ9 | | =AE20+Y20+S20+M20 |
| 21 | | | | | |
| 22 | **O&M Expenditures** | | | | |
| 23 | **Offsite Containment II** | =SUM(AP24:AP31) | =SUM(AL23:AP23) | | =AE23+Y23+S23+M23 |
| 24 | Permits / Licenses | | | | |
| 25 | | | =SUM(AL25:AP25) | | |
| 26 | | | =SUM(AL26:AP26) | | |
| 27 | Operate System - Power (45hp) & I | | =SUM(AL27:AP27) | | |
| 28 | Influent/Effluent Sampling | | =SUM(AL28:AP28) | | |
| 29 | O&M - Equipment | | =SUM(AL29:AP29) | | |
| 30 | O&M - Labor | | =SUM(AL30:AP30) | | |
| 31 | Ground water monitoring -see belo | | | | |
| 32 | | | | | |
| 33 | **Vadose (SVE)** | =SUM(AP34:AP37) | =SUM(AL33:AP33) | | =AE33+Y33+S33+M33 |
| 34 | Operate System - Power | | =SUM(AL34:AP34) | | |
| 35 | O&M - Equipment | | =SUM(AL35:AP35) | | |
| 36 | O&M - Labor | | =SUM(AL36:AP36) | | |
| 37 | Monitoring - Soil gas samples | | =SUM(AL37:AP37) | | |
| 38 | | | | | |
| 39 | **Source Containment** | =SUM(AP40:AP44) | =SUM(AL39:AP39) | | =AE39+Y39+S39+M39 |
| 40 | Operate System - Power | 13980 | =SUM(AL40:AP40) | | |
| 41 | Influent/Effluent Sampling | 4200 | =SUM(AL41:AP41) | | |
| 42 | O&M - Equipment | 13200 | =SUM(AL42:AP42) | | |
| 43 | O&M - Labor | 7800 | =SUM(AL43:AP43) | | |
| 44 | Lease of water rights | 1200 | =SUM(AL44:AP44) | | |
| 45 | | | | | |
| 46 | **Monitoring and Reporting** | =SUM(AP47:AP58) | =SUM(AL46:AP46) | | =AE46+Y46+S46+M46 |
| 47 | Progress Reporting | 390 | =SUM(AL47:AP47) | | |
| 48 | Aquifer Model (ERM Estimate)' | 1200 | =SUM(AL48:AP48) | | |
| 49 | Annual Reports Incl.Perf & Alt. Eva | 3600 | =SUM(AL49:AP49) | | |
| 50 | | | =SUM(AL50:AP50) | | |
| 51 | | 12750 | =SUM(AL51:AP51) | | |
| 52 | | 27900 | =SUM(AL52:AP52) | | |
| 53 | | 2250 | =SUM(AL53:AP53) | | |
| 54 | 5-yr Report | | =SUM(AL54:AP54) | | |
| 55 | | | | | |
| 56 | **Closure** | | | | |
| 57 | Plug and Abandon 63 wells | 89146 | =SUM(AL57:AP57) | | |
| 58 | Closure Certification Report | 1350 | =SUM(AL58:AP58) | | |
| 59 | | | | | |
| 60 | Data Tabulation, Eng., Mgnt. | 13500 | =SUM(AL60:AP60) | | =AE60+Y60+S60+M60 |
| 61 | | | | | |
| 62 | Total O&M Expenditure | =SUM(AP60+AP46+AP39+Al | =SUM(AQ60+AQ46+AQ39+AQ33 | | =AE62+Y62+S62+M62 |
| 63 | | | | | |
| 64 | | | | | |
| 65 | **Summary** | | | | |
| 66 | | =AP20 | =SUM(AL66:AP66) | | =AE66+Y66+S66+M66 |
| 67 | | =AP62 | =SUM(AL67:AP67) | | =AE67+Y67+S67+M67 |
| 68 | | | | | |
| 69 | | | | | |
| 70 | **Sparton Technologies, Inc. (NPV** | | | | |
| 71 | **Coors Rd. Facility** | | | | |
| 72 | **Albuquerque, New Mexico** | | | | |
| 73 | **36468** | | | | |
| 74 | | =AO74-1 | | | |
| 75 | | =AO75+1 | 2025-2029 | | Totals |
| 76 | **Remaining Capital Expenditures** | | | | |
| 77 | **Off-site Containment** | =SUM(AP78) | =SUM(AL77:AP77) | | =AE77+Y77+S77+M77 |
| 78 | No remaining tasks | | | | |
| 79 | | | | | |
| 80 | **Vadose (SVE)** | | =SUM(AL80:AP80) | | =AE80+Y80+S80+M80 |
| 81 | Equipment - Procure/Install (1) 200 | | =SUM(AL81:AP81) | | |
| 82 | | | | | |
| 83 | **Source Containment** | | =SUM(AL83:AP83) | | =AE83+Y83+S83+M83 |

| | A | AP | AQ | AR | AS |
|---|---|---|---|---|---|
| 7 | | =AO7+1 | 2025-2029 | | Totals |
| 86 | Equipment - Procure/Install (1) 50g | | =SUM(AL86:AP86) | | |
| 87 | Install Ponds / Piping | | =SUM(AL87:AP87) | | |
| 88 | | | | | |
| 89 | Total Remaining Capital Expendi | =AP83+AP80+AP77 | =AQ83+AQ80+AQ77 | | =AE89+Y89+S89+M89 |
| 90 | | | | | |
| 91 | O&M Expenditures | | | | |
| 92 | Off-site Containment | =SUM(AP93:AP100) | =SUM(AL92:AP92) | | =AE92+Y92+S92+M92 |
| 93 | Permits / Licenses | | | | |
| 94 | | | =SUM(AL94:AP94) | | |
| 95 | | | =SUM(AL95:AP95) | | |
| 96 | Operate System - Power (45hp) & I | | =SUM(AL96:AP96) | | |
| 97 | Influent/Effluent Sampling | | =SUM(AL97:AP97) | | |
| 98 | O&M - Equipment | | =SUM(AL98:AP98) | | |
| 99 | O&M - Labor | | =SUM(AL99:AP99) | | |
| 100 | Ground water monitoring -see belo | | | | |
| 101 | | | | | |
| 102 | Vadose (SVE) | =SUM(AP103:AP106) | =SUM(AL102:AP102) | | =AE102+Y102+S102+M102 |
| 103 | Operate System - Power | | =SUM(AL103:AP103) | | |
| 104 | O&M - Equipment | | =SUM(AL104:AP104) | | |
| 105 | O&M - Labor | | =SUM(AL105:AP105) | | |
| 106 | Monitoring - Soil gas samples | | =SUM(AL106:AP106) | | |
| 107 | | | | | |
| 108 | Source Containment | =SUM(AP109:AP113) | =SUM(AL108:AP108) | | =AE108+Y108+S108+M108 |
| 109 | Operate System - Power | =IF(AP40=0," ",NPV(6%,AO1 | =SUM(AL109:AP109) | | |
| 110 | Influent/effluent Sampling | =IF(AP41=0," ",NPV(6%,AO1 | =SUM(AL110:AP110) | | |
| 111 | O&M - Equipment | =IF(AP42=0," ",NPV(6%,AO1 | =SUM(AL111:AP111) | | |
| 112 | O&M - Labor | =IF(AP43=0," ",NPV(6%,AO1 | =SUM(AL112:AP112) | | |
| 113 | Lease of water rights | =IF(AP44=0," ",NPV(6%,AO1 | =SUM(AL113:AP113) | | |
| 114 | | | | | |
| 115 | Monitoring and Reporting | =SUM(AP116:AP127) | =SUM(AL115:AP115) | | =AE115+Y115+S115+M115 |
| 116 | Progress Reporting | =IF(AP47=0," ",NPV(6%,AO1 | =SUM(AL116:AP116) | | |
| 117 | Aquifer Model (ERM Estimate)[2] | =IF(AP48=0," ",NPV(6%,AO1 | =SUM(AL117:AP117) | | |
| 118 | Annual Reports including Performa | =IF(AP49=0," ",NPV(6%,AO1 | =SUM(AL118:AP118) | | |
| 119 | | =IF(AP50=0," ",NPV(6%,AO1 | =SUM(AL119:AP119) | | |
| 120 | | =IF(AP51=0," ",NPV(6%,AO1 | =SUM(AL120:AP120) | | |
| 121 | | =IF(AP52=0," ",NPV(6%,AO1 | =SUM(AL121:AP121) | | |
| 122 | | =IF(AP53=0," ",NPV(6%,AO1 | =SUM(AL122:AP122) | | |
| 123 | 5-yr Report | =IF(AP54=0," ",NPV(6%,AO1 | =SUM(AL123:AP123) | | |
| 124 | | | | | |
| 125 | Closure | | | | |
| 126 | Plug and Abandon 63 wells | 15521 | =SUM(AL126:AP126) | | |
| 127 | Closure Certification Report | 235 | =SUM(AL127:AP127) | | |
| 128 | | | | | |
| 129 | Data Tabulation, Eng., Mgnt. | =IF(AP60=0," ",NPV(6%,AO1 | =SUM(AL129:AP129) | | =AE129+Y129+S129+M129 |
| 130 | | | | | |
| 131 | Total O&M Expenditure | =SUM(AP129+AP115+AP10 | =SUM(AQ129+AQ115+AQ108+A | | =AE131+Y131+S131+M131 |
| 132 | | | | | |
| 133 | | | | | |
| 134 | Summary | | | | |
| 135 | | =AP89 | =SUM(AL135:AP135) | | =AE135+Y135+S135+M135 |
| 136 | | =AP131 | =SUM(AL136:AP136) | | =AE136+Y136+S136+M136 |
| 137 | | | | | =AS136+AS135 |
| 138 | NOTES: | | | | |
| 139 | [1] 6% is used for the NPV calculatio | | | | |
| 140 | [2] Three estimates are used to reflec | | | | |

# Net Present Value Supporting Documentation

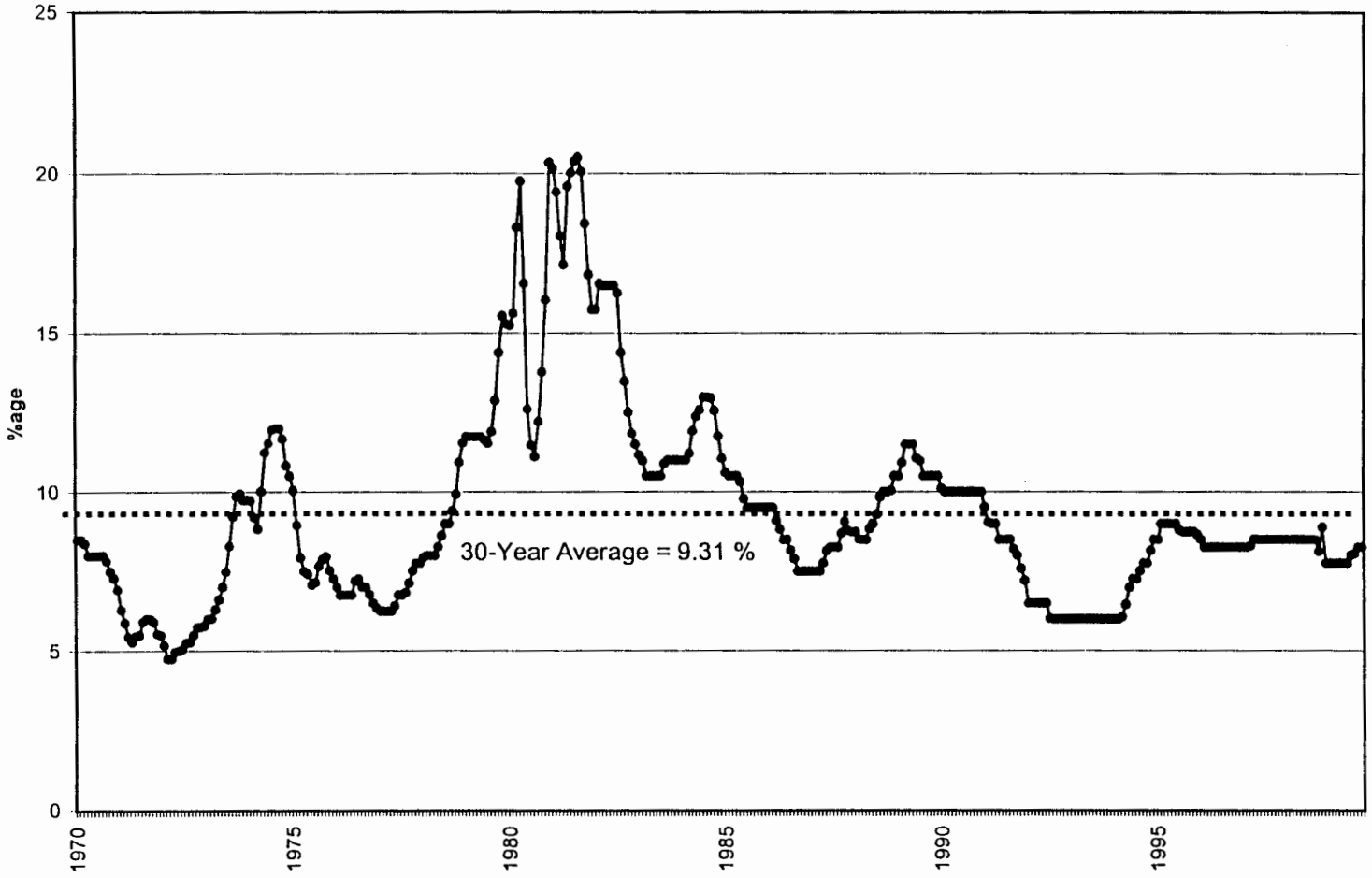
*Attachment 6*

*November 17, 1999*
*W.O. #555-01*

**Environmental Resources Management**
16300 Katy Freeway, Suite 300
Houston, Texas 77094-1611
(281) 579-8999

BS180555-K99

## 30-Year Prime Interest Rate




Source: H.15 Release -- Federal Reserve Board of Governors

# 30-Year Prime Interest Rate

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Nov 1969 | 8.50 | | | | | | | | | | | | | | |
| | 8.50 | | | | | | | | | | | | | | |
| 1970 | 8.50 | 1974 | 9.73 | 1978 | 7.93 | 1982 | 15.75 | 1986 | 9.50 | 1990 | 10.11 | 1994 | 6.00 | 1998 | 8.50 |
| | 8.50 | | 9.21 | | 8.00 | | 16.56 | | 9.50 | | 10.00 | | 6.00 | | 8.50 |
| | 8.39 | | 8.85 | | 8.00 | | 16.50 | | 9.10 | | 10.00 | | 6.06 | | 8.50 |
| | 8.00 | | 10.02 | | 8.00 | | 16.50 | | 8.83 | | 10.00 | | 6.45 | | 8.50 |
| | 8.00 | | 11.25 | | 8.27 | | 16.50 | | 8.50 | | 10.00 | | 6.99 | | 8.50 |
| | 8.00 | | 11.54 | | 8.63 | | 16.50 | | 8.50 | | 10.00 | | 7.25 | | 8.50 |
| | 8.00 | | 11.97 | | 9.00 | | 16.26 | | 8.16 | | 10.00 | | 7.25 | | 8.50 |
| | 8.00 | | 12.00 | | 9.01 | | 14.39 | | 7.90 | | 10.00 | | 7.51 | | 8.50 |
| | 7.83 | | 12.00 | | 9.41 | | 13.50 | | 7.50 | | 10.00 | | 7.75 | | 8.49 |
| | 7.50 | | 11.68 | | 9.94 | | 12.52 | | 7.50 | | 10.00 | | 7.75 | | 8.12 |
| | 7.28 | | 10.83 | | 10.94 | | 11.85 | | 7.50 | | 10.00 | | 8.15 | | 8.89 |
| | 6.92 | | 10.50 | | 11.55 | | 11.50 | | 7.50 | | 10.00 | | 8.50 | | 7.75 |
| 1971 | 6.29 | 1975 | 10.05 | 1979 | 11.75 | 1983 | 11.16 | 1987 | 7.50 | 1991 | 9.52 | 1995 | 8.50 | 1999 | 7.75 |
| | 5.88 | | 8.96 | | 11.75 | | 10.98 | | 7.50 | | 9.05 | | 9.00 | | 7.75 |
| | 5.44 | | 7.93 | | 11.75 | | 10.50 | | 7.50 | | 9.00 | | 9.00 | | 7.75 |
| | 5.28 | | 7.50 | | 11.75 | | 10.50 | | 7.75 | | 9.00 | | 9.00 | | 7.75 |
| | 5.46 | | 7.40 | | 11.75 | | 10.50 | | 8.14 | | 8.50 | | 9.00 | | 7.75 |
| | 5.50 | | 7.07 | | 11.65 | | 10.50 | | 8.25 | | 8.50 | | 9.00 | | 7.75 |
| | 5.91 | | 7.15 | | 11.54 | | 10.50 | | 8.25 | | 8.50 | | 8.80 | | 8.00 |
| | 6.00 | | 7.66 | | 11.91 | | 10.89 | | 8.25 | | 8.50 | | 8.75 | | 8.06 |
| | 6.00 | | 7.88 | | 12.90 | | 11.00 | | 8.70 | | 8.20 | | 8.75 | | 8.25 |
| | 5.90 | | 7.96 | | 14.39 | | 11.00 | | 9.07 | | 8.00 | | 8.75 | | 8.25 |
| | 5.53 | | 7.53 | | 15.55 | | 11.00 | | 8.78 | | 7.58 | | 8.75 | | |
| | 5.49 | | 7.26 | | 15.30 | | 11.00 | | 8.75 | | 7.21 | | 8.65 | | |
| 1972 | 5.18 | 1976 | 7.00 | 1980 | 15.25 | 1984 | 11.00 | 1988 | 8.75 | 1992 | 6.50 | 1996 | 8.50 | **AVERAGE** | **9.31** |
| | 4.75 | | 6.75 | | 15.63 | | 11.00 | | 8.51 | | 6.50 | | 8.25 | | |
| | 4.75 | | 6.75 | | 18.31 | | 11.21 | | 8.50 | | 6.50 | | 8.25 | | |
| | 4.97 | | 6.75 | | 19.77 | | 11.93 | | 8.50 | | 6.50 | | 8.25 | | |
| | 5.00 | | 6.75 | | 16.57 | | 12.39 | | 8.84 | | 6.50 | | 8.25 | | |
| | 5.04 | | 7.20 | | 12.63 | | 12.60 | | 9.00 | | 6.50 | | 8.25 | | |
| | 5.25 | | 7.25 | | 11.48 | | 13.00 | | 9.29 | | 6.02 | | 8.25 | | |
| | 5.27 | | 7.01 | | 11.12 | | 13.00 | | 9.84 | | 6.00 | | 8.25 | | |
| | 5.50 | | 7.00 | | 12.23 | | 12.97 | | 10.00 | | 6.00 | | 8.25 | | |
| | 5.73 | | 6.77 | | 13.79 | | 12.58 | | 10.00 | | 6.00 | | 8.25 | | |
| | 5.75 | | 6.50 | | 16.06 | | 11.77 | | 10.05 | | 6.00 | | 8.25 | | |
| | 5.79 | | 6.35 | | 20.35 | | 11.06 | | 10.50 | | 6.00 | | 8.25 | | |
| 1973 | 6.00 | 1977 | 6.25 | 1981 | 20.16 | 1985 | 10.61 | 1989 | 10.50 | 1993 | 6.00 | 1997 | 8.25 | | |
| | 6.02 | | 6.25 | | 19.43 | | 10.50 | | 10.93 | | 6.00 | | 8.25 | | |
| | 6.30 | | 6.25 | | 18.05 | | 10.50 | | 11.50 | | 6.00 | | 8.30 | | |
| | 6.61 | | 6.25 | | 17.15 | | 10.50 | | 11.50 | | 6.00 | | 8.50 | | |
| | 7.01 | | 6.41 | | 19.61 | | 10.31 | | 11.50 | | 6.00 | | 8.50 | | |
| | 7.49 | | 6.75 | | 20.03 | | 9.78 | | 11.07 | | 6.00 | | 8.50 | | |
| | 8.30 | | 6.75 | | 20.39 | | 9.50 | | 10.98 | | 6.00 | | 8.50 | | |
| | 9.23 | | 6.83 | | 20.50 | | 9.50 | | 10.50 | | 6.00 | | 8.50 | | |
| | 9.86 | | 7.13 | | 20.08 | | 9.50 | | 10.50 | | 6.00 | | 8.50 | | |
| | 9.94 | | 7.52 | | 18.45 | | 9.50 | | 10.50 | | 6.00 | | 8.50 | | |
| | 9.75 | | 7.75 | | 16.84 | | 9.50 | | 10.50 | | 6.00 | | 8.50 | | |
| | 9.75 | | 7.75 | | 15.75 | | 9.50 | | 10.50 | | 6.00 | | 8.50 | | |

Source: H.15 Release -- Federal Reserve Board of Governors

# Equipment Cost Estimates

*Attachment 7*

*November 17, 1999*
*W.O. #555-01*

**Environmental Resources Management**
16300 Katy Freeway, Suite 300
Houston, Texas 77094-1611
(281) 579-8999

BS180555-K99

**Attachment 7**

Cost Estimate

Source Containment System

Sparton Technology, Inc.
Coors Road Facility

| Item | Cost | Source |
|---|---|---|
| Containment Well<br>6" x 120' w/ 60' screen | $ 18,000 | Rodgers & Co., Inc. - Verbal Estimate, includes waste disposal |
| Submersible Pump and Controller and Installation<br>60 gpm @ 250' | $ 8,000 | Verbal Estimate from Grundfos Pumps Corporation |
| 50 gpm Air Stripper<br>6 tray | $ 30,000 | EPG written quote (attached) |
| Pond Piping<br>2" x 2,000' | $ 10,000 | Environmental restoration: Assemblies Cost Book (1996), ECHOS |

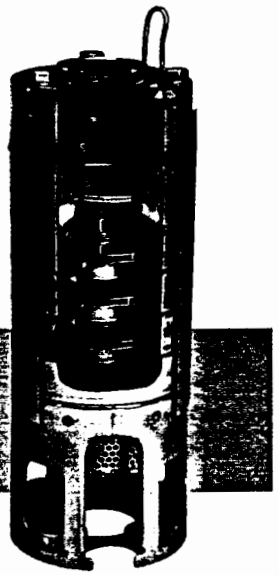
# 4-Inch Submersibles

Grundfos' 4" submersibles feature corrosion-resistant stainless steel construction and are designed to provide years of trouble free performance.

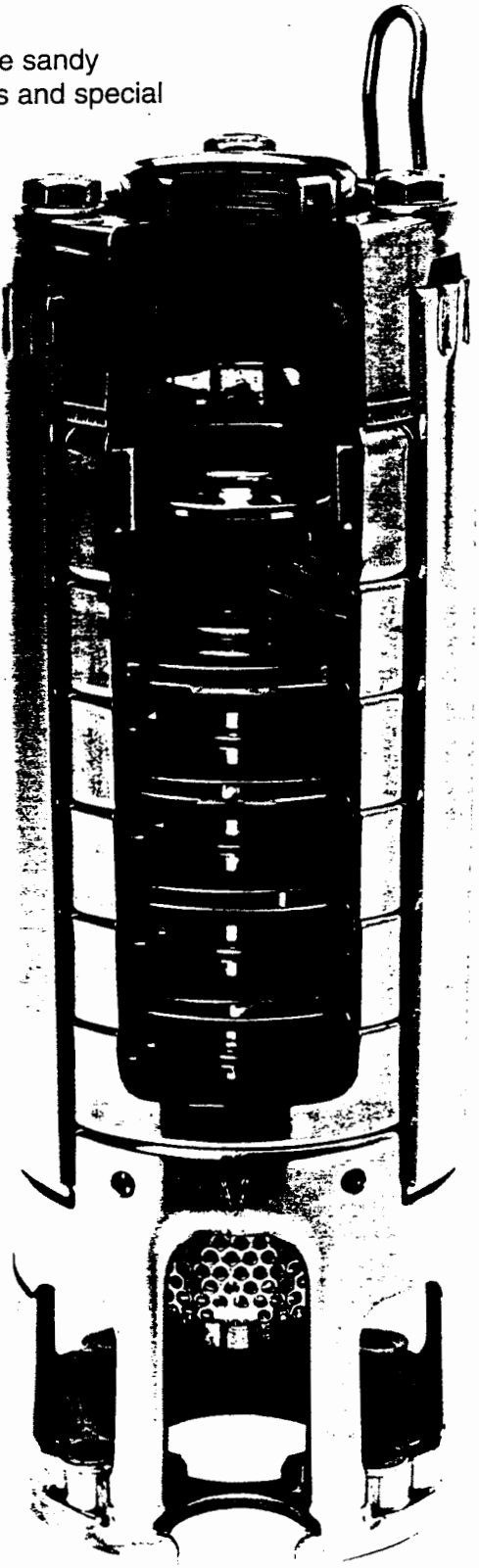
With built-in sand bearing protection, the 4" submersible can handle the sandy conditions often found in domestic wells. Built-in, jam-free check valves and special upthrust protection guarantee smooth running, fail-safe operation. A user friendly cable guard aids in ease of installation.

Grundfos 4" submersibles are also available with a rugged Franklin® submersible motor. Manufactured also of stainless steel, the two units together result in a quality pumping unit built to last.

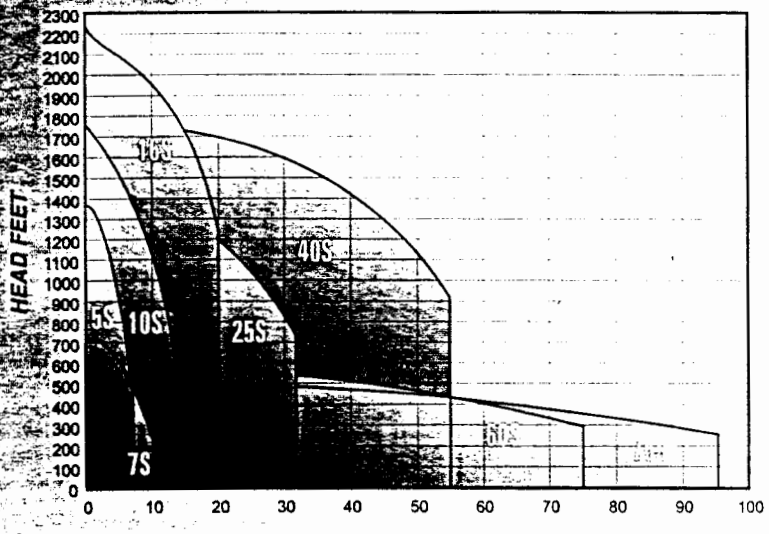
New Radial Thrust Top Bearing handles sand and increases pump life.



The Redi-Flo4, constructed of stainless steel and virgin Teflon® is designed for environmental monitoring and clean-up operations.



***Performance***



# 60S Easy Selection Char

## 60 GPM

**SELECTION CHARTS**

(Ratings are in GALLONS PER HOUR-GPH)

FLOW RANGE
(40 TO 75 GPM)

PUMP OUTLE
2" NPT

DEPTH TO PUMPING WATER LEVEL (LIFT) IN FEET

| PUMP MODEL | HP | PSI | 20 | 40 | 60 | 80 | 100 | 120 | 140 | 160 | 180 | 200 | 220 | 240 | 260 | 280 | 300 | 340 | 400 | 460 | 520 | 600 | 700 | 800 | 900 | 1000 | 1 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 60S20-4 | 2 | 20 | 4335 | 3870 | 2315 | 760 | 380 | | | | | | | | | | | | | | | | | | | | |
| | | 30 | 3515 | 2695 | 1345 | | | | | | | | | | | | | | | | | | | | | | |
| | | 40 | 1825 | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 50 | 1075 | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 60 | | | | | | | | | | | | | | | | | | | | | | | | | |
| SHUT-OFF PSI: | | | 46 | 37 | 29 | 20 | 11 | 3 | | | | | | | | | | | | | | | | | | | |
| 60S30-5 | 3 | 0 | | | | 4485 | 4005 | 3530 | 2060 | | | | | | | | | | | | | | | | | | |
| | | 20 | 4665 | 4375 | 3830 | 3285 | 1645 | | | | | | | | | | | | | | | | | | | | |
| | | 30 | 4560 | 3860 | 2835 | 1800 | 900 | | | | | | | | | | | | | | | | | | | | |
| | | 40 | 3625 | 2995 | 1500 | | | | | | | | | | | | | | | | | | | | | | |
| | | 50 | 2425 | 1165 | 585 | | | | | | | | | | | | | | | | | | | | | | |
| | | 60 | 1320 | | | | | | | | | | | | | | | | | | | | | | | | |
| SHUT-OFF PSI: | | | 60 | 51 | 42 | 34 | 25 | 16 | 8 | | | | | | | | | | | | | | | | | | |
| 60S50-7 | 5 | 0 | | | | | 4650 | 4430 | 4105 | 3785 | 3130 | 2480 | | | | | | | | | | | | | | | |
| | | 20 | | | 4580 | 4345 | 3995 | 3665 | 2900 | 2150 | 1075 | | | | | | | | | | | | | | | | |
| | | 30 | | 4560 | 4275 | 3990 | 3470 | 2950 | 1475 | | | | | | | | | | | | | | | | | | |
| | | 40 | 4505 | 4260 | 3875 | 3490 | 2630 | 1765 | 885 | | | | | | | | | | | | | | | | | | |
| | | 50 | 4180 | 3875 | 3285 | 2695 | 1350 | | | | | | | | | | | | | | | | | | | | |
| | | 60 | 3740 | 3320 | 2320 | 1320 | 660 | | | | | | | | | | | | | | | | | | | | |
| SHUT-OFF PSI: | | | 88 | 80 | 71 | 62 | 54 | 45 | 36 | 28 | 19 | 10 | | | | | | | | | | | | | | | |
| 60S50-9 | 5 | 0 | | | | | | | 4490 | 4300 | 4040 | 3780 | 3335 | 2890 | 1965 | 1040 | | | | | | | | | | | |
| | | 20 | | | | | 4430 | 4230 | 3955 | 3680 | 3180 | 2690 | 1650 | 610 | 305 | | | | | | | | | | | | |
| | | 30 | | | 4590 | 4410 | 4175 | 3940 | 3565 | 3190 | 2440 | 1685 | 840 | | | | | | | | | | | | | | |
| | | 40 | | 4570 | 4365 | 4160 | 3860 | 3565 | 3015 | 2460 | 1230 | | | | | | | | | | | | | | | | |
| | | 50 | 4530 | 4350 | 4100 | 3850 | 3440 | 3025 | 2180 | 1330 | 665 | | | | | | | | | | | | | | | | |
| | | 60 | 4300 | 4085 | 3760 | 3440 | 2825 | 2205 | 1105 | | | | | | | | | | | | | | | | | | |
| SHUT-OFF PSI: | | | 115 | 106 | 98 | 89 | 81 | 72 | 63 | 55 | 46 | 37 | 29 | 20 | 11 | 3 | | | | | | | | | | | |
| 60S75-13 *60S75-13 | 7 1/2 | 0 | | | | | | | | | 4640 | 4525 | 4385 | 4240 | 4065 | 3890 | 3640 | 3000 | 1290 | | | | | | | | |
| | | 20 | | | | | | | 4610 | 4485 | 4340 | 4195 | 4010 | 3825 | 3560 | 3300 | 2875 | 1735 | | | | | | | | | |
| | | 30 | | | | | | 4595 | 4460 | 4325 | 4160 | 3995 | 3770 | 3550 | 3200 | 2860 | 2290 | 860 | | | | | | | | | |
| | | 40 | | | | | 4570 | 4445 | 4295 | 4145 | 3950 | 3760 | 3475 | 3195 | 2735 | 2275 | 1500 | 360 | | | | | | | | | |
| | | 50 | | | | 4555 | 4415 | 4280 | 4105 | 3935 | 3700 | 3460 | 3095 | 2725 | 2100 | 1480 | 740 | | | | | | | | | | |
| | | 60 | | | 4530 | 4400 | 4245 | 4090 | 3890 | 3685 | 3380 | 3080 | 2585 | 2085 | 1245 | 405 | | | | | | | | | | | |
| SHUT-OFF PSI: | | * | | | 152 | 143 | 134 | 126 | 117 | 108 | 100 | 91 | 82 | 74 | 65 | 56 | 48 | 30 | 4 | | | | | | | | |
| *60S100-18 60S100-18 | 10 | 0 | | | | | | | | | | | | | 4590 | 4500 | 4400 | 4185 | 3785 | 3155 | 2150 | | | | | | |
| | | 20 | | | | | | | | | | | 4565 | 4475 | 4370 | 4270 | 4150 | 3880 | 3350 | 2400 | 850 | | | | | | |
| | | 30 | | | | | | | | | | 4555 | 4455 | 4360 | 4250 | 4135 | 4000 | 3695 | 3055 | 1890 | | | | | | | |
| | | 40 | | | | | | | | | 4540 | 4445 | 4340 | 4235 | 4110 | 3990 | 3835 | 3480 | 2700 | 1240 | | | | | | | |
| | | 50 | | | | | | | | 4525 | 4425 | 4325 | 4210 | 4100 | 3960 | 3820 | 3640 | 3215 | 2250 | 600 | | | | | | | |
| | | 60 | | | | | | | 4510 | 4415 | 4305 | 4200 | 4070 | 3945 | 3785 | 3630 | 3410 | 2890 | 1700 | | | | | | | | |
| SHUT-OFF PSI: | | | | | | | | | 186 | 177 | 169 | 160 | 152 | 143 | 134 | 126 | 117 | 100 | 74 | 46 | 22 | | | | | | |

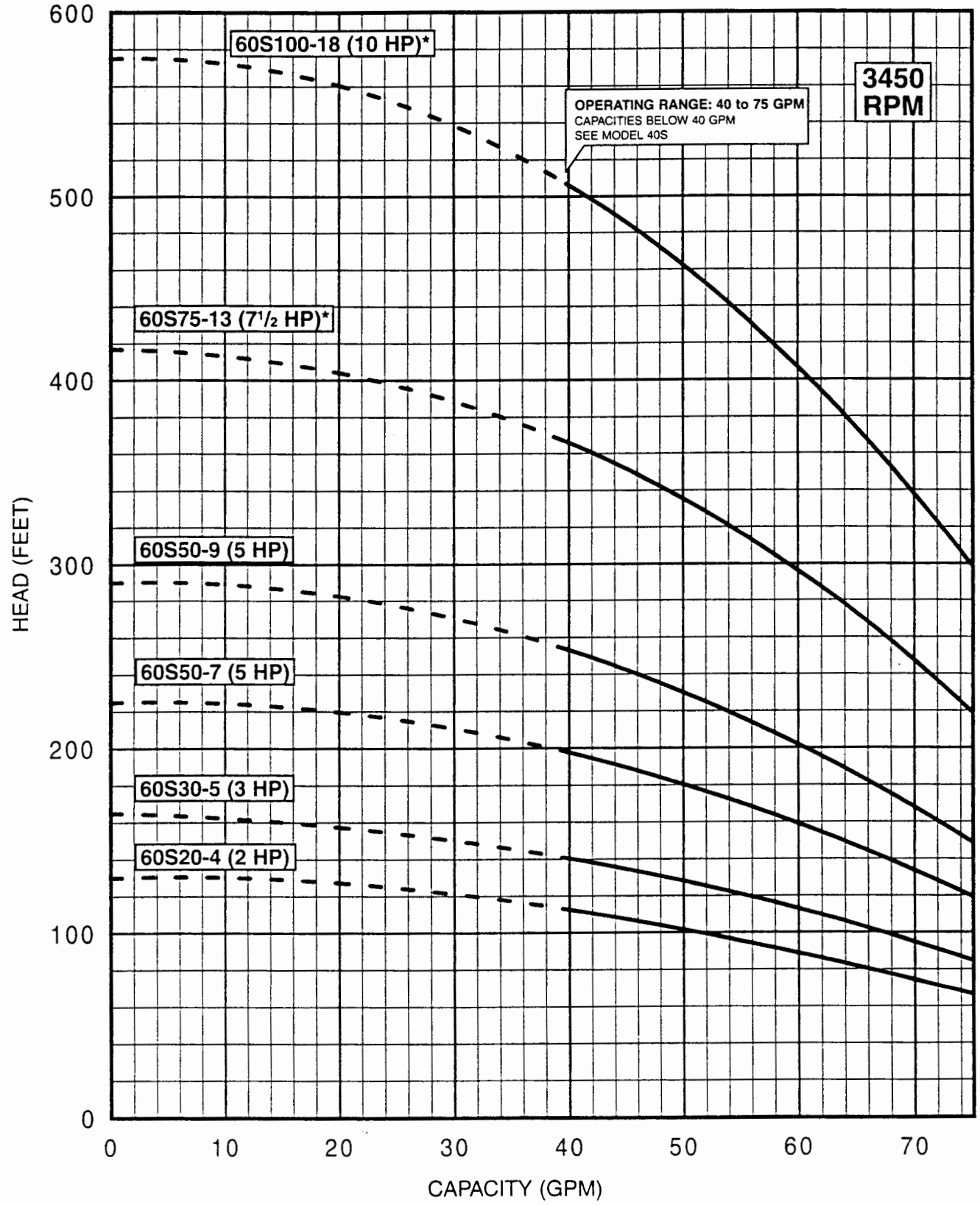
* 6" Motor

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.

GRUNDFOS

# Model 60S 60 GPM Performance Curves

**FLOW RANGE: 40 -75 GPM** **OUTLET SIZE: 2 " NPT** **NOMINAL DIA.**




SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.
4" MOTOR STANDARD
* Also available with 6" motor.

Performance conforms to ISO 2548 Ann
@ 5 ft. min. submergence.

GRUNDFOS

## DIMENSIONS AND WEIGHTS

| MODEL NO. | FIG. | HP | MOTOR SIZE | DISCH. SIZE | DIMENSIONS IN INCHES | | | | | APPROX. SHIP WT. |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | A | B | C | D | E | |
| 60S20-4 | A | 2 | 4" | 2" NPT | 32.6 | 15.1 | 17.5 | 3.8 | 3.9 | 39 |
| 60S30-5 | A | 3 | 4" | 2" NPT | 40.7 | 20.6 | 20.1 | 3.8 | 3.9 | 64 |
| 60S50-7 | A | 5 | 4" | 2" NPT | 48.8 | 23.6 | 25.2 | 3.8 | 3.9 | 75 |
| 60S50-9 | A | 5 | 4" | 2" NPT | 53.9 | 23.6 | 30.3 | 3.8 | 3.9 | 80 |
| 60S75-13* | A | 7 1/2 | 4" | 2" NPT | 70.1 | 29.6 | 40.5 | 3.8 | 3.9 | 105 |
| 60S100-18* | A | 10 | 4" | 2" NPT | 97.3 | 43.9 | 53.4 | 3.8 | 3.9 | 160 |

NOTES: All models suitable for use in 4" wells, unless otherwise noted.
Weights include pump end with motor in lbs.
* Also available with 6" motor.

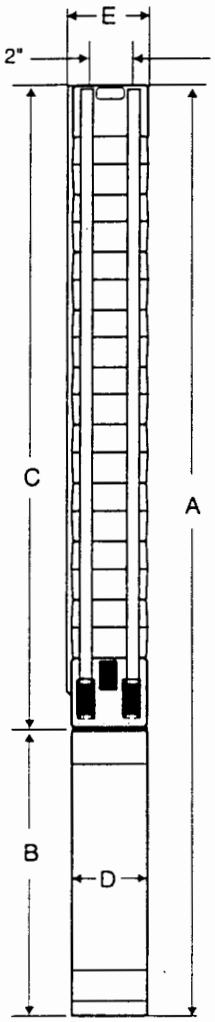


Fig. A

## MATERIALS OF CONSTRUCTION

| COMPONENT | CYLINDRICAL SHAFT (4-18 Stgs.) |
|---|---|
| Check Valve Housing | 304 Stainless Steel |
| Check Valve | 304 Stainless Steel |
| Diffuser Chamber | 304 Stainless Steel |
| Impeller | 304 Stainless Steel |
| Suction Interconnector | 304 Stainless Steel |
| Inlet Screen | 304 Stainless Steel |
| Pump Shaft | 431 Stainless Steel |
| Straps | 304 Stainless Steel |
| Cable Guard | 304 Stainless Steel |
| Priming Inducer | 304 Stainless Steel |
| Coupling | 316/431 Stainless Steel** |
| Check Valve Seat | NBR/316 Stainless Steel |
| Top Bearing | NBR/316 Stainless Steel |
| Impeller Seal Ring | NBR/316 Stainless Steel |
| Intermediate Bearings | NBR/316 Stainless Steel |
| Shaft Washer | LCP (Vectra®) |
| Split Cone | 304 Stainless Steel |
| Split Cone Nut | 304 Stainless Steel |
| Coupling Key | Not Required** |

NOTES: Specifications are subject to change without notice.
Vectra ® is a registered trademark of Hoechast Calanese Corporation.
** If using 6" non-standard motors, refer to 329/416 Stainless Steel for coupling and 302/304 for the coupling key.

GRUNDFOS
GRUNDFOS PUMPS CORPORATION • 3131 N. Business Park Avenue • Fresno, CA • 93727
Customer Service Centers: Allentown, PA • Fresno, CA
Phone (800) 333-1366 • FAX (800) 333-1363
Canada: Oakville, Ontario • Mexico: Apodaca, N.L.

LSP-TL-1060 Rev. 12/98
PRINTED IN USA

# EPG Companies Inc.

**Manufacturer of Industrial and Environmental Solutions**

## – Fax Transmittal –

| | |
|---|---|
| **To:** | Gary Richardson |
| **Company:** | METRIC Corp. |
| **Fax Number:** | 505-828-2803 |
| **Date:** | March 19, 1999 |
| **Total Pages:** *(including this page)* | 4 |
| **From:** | Jim Bailey |
| **Subject:** | **Air Stripper** |

**Message:**

See chemistry data for the STAT 180.

Budgetary pricing for the 5-tray unit with 7½ HP, 460 V, 3Ø, TEFC blower is $25,000 to $26,500 delivered.

Budgetary pricing for the 6-tray unit with 7½ HP, 460 V, 3Ø, TEFC blower is $27,000 to $28,500 delivered.

Let me know if I can be of further assistance. It's been a pleasure working with you.

Enjoy your weekend,

Jim

*P.O. Box 427, Rogers, MN 55374*
*19900 County Road 81, Maple Grove, MN 55311*
*Phone: 612-424-2613 • 800-443-7426 • Fax: 612-493-4812*

Pumps - Sensors - UL Controls - Tanks - Air Strippers - Blowers - Thermal Oxidizers - Process Equipment

EPG Companies
19900 County Road 81
Maple Grove, MN 55311
612-424-2613
Fax: 612-493-4812

03/19/99
11:13:12

----------STAT 180----------
VERSION 3.1

WATER FLOW RATE: 75.0 gpm
AIR FLOW RATE: 650.0 cfm
WATER TEMPERATURE: 63.0 F
AIR-TO-WATER RATIO: 65:1

Influent Conc. for TRICHLOROETHENE 5000.0 ppb

| NO OF TRAY | REMOVAL EFF % | EFF CONC ppb | OFF-GAS CONC ug/l | AIR EMISSION lb/d |
|---|---|---|---|---|
| 1 | 82.55326 | 872.3372 | 63.5025 | 3.7165 |
| 2 | 96.85737 | 157.1316 | 74.5057 | 4.3605 |
| 3 | 99.43073 | 28.4636 | 76.4852 | 4.4764 |
| 4 | 99.89677 | 5.1613 | 76.8437 | 4.4973 |
| 5 | 99.98128 | 0.9361 | 76.9087 | 4.5011 |
| 6 | 99.99660 | 0.1698 | 76.9205 | 4.5018 |

Influent Conc. for 1,1-DICHLOROETHENE 500.0 ppb

| NO OF TRAY | REMOVAL EFF % | EFF CONC ppb | OFF-GAS CONC ug/l | AIR EMISSION lb/d |
|---|---|---|---|---|
| 1 | 89.72993 | 51.3503 | 6.9023 | 0.4040 |
| 2 | 98.93453 | 5.3274 | 7.6103 | 0.4454 |
| 3 | 99.88935 | 0.5533 | 7.6838 | 0.4497 |
| 4 | 99.98851 | 0.0575 | 7.6914 | 0.4501 |
| 5 | 99.99881 | 0.0060 | 7.6922 | 0.4502 |
| 6 | 99.99988 | 0.0006 | 7.6923 | 0.4502 |

Influent Conc. for 1,1,1-TRICHLOROETHANE 500.0 ppb

| NO OF TRAY | REMOVAL EFF % | EFF CONC ppb | OFF-GAS CONC ug/l | AIR EMISSION lb/d |
|---|---|---|---|---|
| 1 | 84.61496 | 76.9252 | 6.5088 | 0.3809 |
| 2 | 97.57983 | 12.1008 | 7.5061 | 0.4393 |
| 3 | 99.61798 | 1.9101 | 7.6629 | 0.4485 |
| 4 | 99.93966 | 0.3017 | 7.6877 | 0.4499 |
| 5 | 99.99047 | 0.0476 | 7.6916 | 0.4502 |
| 6 | 99.99849 | 0.0075 | 7.6922 | 0.4502 |

Influent Conc. for METHYLENE CHLORIDE 500.0 ppb

| NO OF TRAY | REMOVAL EFF % | EFF CONC ppb | OFF-GAS CONC ug/l | AIR EMISSION lb/d |
|---|---|---|---|---|
| 1 | 64.03217 | 179.8391 | 4.9256 | 0.2883 |
| 2 | 85.85435 | 70.7283 | 6.6042 | 0.3865 |
| 3 | 94.25372 | 28.7314 | 7.2503 | 0.4243 |
| 4 | 97.63581 | 11.8210 | 7.5104 | 0.4396 |
| 5 | 99.02225 | 4.8888 | 7.6171 | 0.4458 |
| 6 | 99.59477 | 2.0261 | 7.6611 | 0.4484 |

EPG Companies
19900 County Road 81
Maple Grove, MN 55311
612-424-2613
Fax: 612-493-4812

03/19/99
11:13:12

----------STAT 180----------
VERSION 3.1

| | |
|---|---|
| WATER FLOW RATE: | 75.0 gpm |
| AIR FLOW RATE: | 650.0 cfm |
| WATER TEMPERATURE: | 63.0 F |
| AIR-TO-WATER RATIO: | 65:1 |

Influent Conc. for TOTAL VOCs 6500.0 ppb

| NO OF TRAY | REMOVAL EFF % | EFF CONC ppb | OFF-GAS CONC ug/l | AIR EMISSION lb/d |
|---|---|---|---|---|
| 1 | 81.83920 | 1180.4519 | 81.8392 | 4.7897 |
| 2 | 96.22634 | 245.2880 | 96.2263 | 5.6317 |
| 3 | 99.08218 | 59.6584 | 99.0822 | 5.7989 |
| 4 | 99.73321 | 17.3414 | 99.7332 | 5.8370 |
| 5 | 99.90956 | 5.8784 | 99.9096 | 5.8473 |
| 6 | 99.96609 | 2.2041 | 99.9661 | 5.8506 |

| Assembly | Description | Unit | Unit Cost by Safety Level A | B | C | D | E |
|---|---|---|---|---|---|---|---|
| | **Capital Costs** | | | | | | |
| 19 04 0602 | 550 Gal Steel Sump, Above-Ground w/Support & Fittings | EA | 1,653.67 | 1,427.28 | 1,329.33 | 1,110.45 | 1,030.85 |
| 19 04 0603 | 1,000 Gal Steel Sump, Above-Ground w/Support & Fittings | EA | 2,136.93 | 1,852.15 | 1,728.51 | 1,453.14 | 1,353.28 |
| 19 04 0604 | 1,500 Gal Steel Sump, Above-Ground w/Support & Fittings | EA | 2,719.50 | 2,363.51 | 2,208.97 | 1,864.77 | 1,739.93 |
| 19 04 0605 | 2,000 Gal Steel Sump, Above-Ground w/Support & Fittings | EA | 3,336.87 | 2,887.13 | 2,679.51 | 2,243.92 | 2,093.88 |
| 19 04 0606 | 5,000 Gal Steel Sump, Above-Ground w/Support & Fittings | EA | 5,861.34 | 5,288.95 | 5,024.70 | 4,470.31 | 4,279.36 |
| 19 04 0621 | 550 Gal Horizontal Plastic Sump w/4" NPT Connection | EA | 2,762.67 | 2,655.20 | 2,608.56 | 2,504.64 | 2,466.95 |
| 19 04 0622 | 1,000 Gal Horizontal Plastic Sump w/4" NPT Connection | EA | 3,541.44 | 3,399.05 | 3,337.22 | 3,199.54 | 3,149.60 |
| 19 04 0623 | 2,000 Gal Horizontal Plastic Sump w/6" NPT Connection | EA | 4,802.44 | 4,624.44 | 4,547.16 | 4,375.07 | 4,312.66 |
| 19 04 0624 | 4,000 Gal Horizontal Plastic Sump w/6" NPT Connection | EA | 6,325.76 | 6,114.81 | 6,023.23 | 5,819.25 | 5,745.28 |
| 19 04 0625 | 6,000 Gal Horizontal Plastic Sump w/6" NPT Connection | EA | 8,102.32 | 7,817.55 | 7,693.91 | 7,418.54 | 7,318.67 |
| 19 04 0626 | 8,000 Gal Horizontal Plastic Sump w/6" NPT Connection | EA | 9,547.81 | 9,191.82 | 9,037.27 | 8,693.07 | 8,568.25 |
| 19 04 0627 | 10,000 Gal Horizontal Plastic Sump w/6" NPT Connection | EA | 11,116.11 | 10,666.38 | 10,458.75 | 10,023.16 | 9,873.12 |
| 19 04 0628 | 12,000 Gal Horizontal Plastic Sump w/6" NPT Connection | EA | 13,639.25 | 13,066.87 | 12,802.63 | 12,248.24 | 12,057.28 |
| 19 04 0629 | 15,000 Gal Horizontal Plastic Sump w/6" NPT Connection | EA | 18,282.37 | 17,652.74 | 17,362.06 | 16,752.26 | 16,542.20 |
| 19 04 0631 | 20,000 Gal Horizontal Plastic Sump w/6" NPT Connection | EA | 23,461.50 | 22,761.92 | 22,438.95 | 21,761.37 | 21,527.97 |
| 19 04 0632 | 25,000 Gal Horizontal Plastic Sump w/6" NPT Connection | EA | 37,687.65 | 36,788.18 | 36,372.93 | 35,501.75 | 35,201.66 |
| 19 04 0633 | 30,000 Gal Horizontal Plastic Sump w/6" NPT Connection | EA | 56,132.03 | 55,082.63 | 54,598.18 | 53,581.81 | 53,231.72 |
| 19 04 0634 | 40,000 Gal Horizontal Plastic Sump w/6" NPT Connection | EA | 70,053.07 | 68,479.00 | 67,752.31 | 66,227.75 | 65,702.62 |
| 19 04 0635 | 48,000 Gal Horizontal Plastic Sump w/6" NPT Connection | EA | 78,951.02 | 76,852.25 | 75,883.34 | 73,850.59 | 73,150.41 |
| 19 07 0120 | 1-1/4", 60 PSI, Polyethylene Pipe | LF | 4.79 | 3.97 | 3.57 | 2.77 | 2.48 |
| 19 07 0121 | 1-1/2", 60 PSI, Polyethylene Pipe | LF | 4.93 | 4.10 | 3.71 | 2.90 | 2.63 |
| 19 07 0122 | 2", 60 PSI, Polyethylene Pipe | LF | 5.65 | 4.72 | 4.29 | 3.40 | 3.10 |
| 19 07 0123 | 3" Polyethylene 40' Joints, 60 PSI | LF | 8.26 | 7.17 | 6.64 | 5.57 | 5.19 |
| 19 07 0124 | 4" Polyethylene 40' Joints, 60 PSI | LF | 14.66 | 12.36 | 11.12 | 8.87 | 8.21 |
| 19 07 0125 | 6" Polyethylene 40' Joints, 60 PSI | LF | 20.05 | 17.54 | 16.23 | 13.79 | 13.05 |
| 19 07 0126 | 8" Polyethylene 40' Joints, 60 PSI | LF | 29.56 | 26.55 | 24.95 | 22.04 | 21.16 |
| 20 06 0101 | 3-9 Lb Magnesium Anodes, Cathodic Protection Point | EA | 1,528.20 | 1,220.86 | 1,077.52 | 779.78 | 678.15 |
| 20 06 0102 | 3-17 Lb Magnesium Anodes, Cathodic Protection Point | EA | 1,977.90 | 1,593.33 | 1,411.78 | 1,039.08 | 913.27 |
| 20 06 0103 | 3-32 Lb Magnesium Anodes, Cathodic Protection Point | EA | 2,491.79 | 2,035.50 | 1,818.46 | 1,376.17 | 1,227.90 |



©1996 by ECHOS. All rights reserved.